

Purdue University Weed Science

DPX R5W13 Applied as a burndown before soybean planting in the midwest

Trial ID: 13S-SEP-CTS-08 Location: SEPAC Trial Year: 2013
 Protocol ID: 13S-SEP-CTS-08 Investigator: Dr. Bill Johnson
 Project ID: US 117/13/01 Study Director: Joe Ikley
 Sponsor Contact: DuPont - Kelly Barnett

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: 5/8/2013
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
Address: 915 West State Street **Phone No.:** 765-494-0891
City+State/Prov: West Lafayette **Mobile No.:** 410-596-9091
Postal Code: 47907 **E-mail:** jikley@purdue.edu

Investigator: Dr. Bill Johnson **Title:** Professor
Organization: Purdue University
Address: 915 West State Street **Phone No.:** 765-494-4656
City+State/Prov: West Lafayette **Mobile No.:** 765-404-9801
Postal Code: 47907 **E-mail:** wgj@purdue.edu

Cooperator/Landowner

Cooperator: Don Biehle
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

Soybean

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

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:** AMBEL *Ambrosia artemisiifolia*
Common Name: Common ragweed

Pest 2 Type: W **Code:** PANDI *Panicum dichotomiflorum*
Common Name: Fall panicum

Pest 3 Type: W **Code:** XANST *Xanthium strumarium*
Common Name: Heart-leaf cocklebur

Pest 4 Type: W **Code:** ALLVI *Allium vineale*
Common Name: Wild garlic

Pest 5 Type: W **Code:** BROSS *Bromus* sp.
Common Name: Bromegrass

Pest 6 Type: W **Code:** DIGSA *Digitaria sanguinalis*
Common Name: large crabgrass

Pest 7 Type: W **Code:** IPOSS *Ipomoea* sp.
Common Name: Morning glory

Site and Design

Treated Plot Width: 10 FT
Treated Plot Length: 30 FT
Treated Plot Area: 300 FT² **Treatments:** 15
Replications: 4

Site Type: FIELD field
Experimental Unit: 1 PLOT plot
Tillage Type: NOTILL no-till
Study Design: RAOBL Randomized Complete Block (RCB)

Soil Description

Description Name: SEPAC-Field U4
% Sand: 20 **% OM:** 1.3 **Texture:** SIL silt loam
% Silt: 65 **pH:** 6.5 **Soil Name:** Avonburg
% Clay: 15 **CEC:** 5.7 **Fert. Level:** F fair
Soil Drainage: P poor

Application Description

	A	B	C
Application Date:	5/8/2013	5/30/2013	7/5/2013
Appl. Start Time:	11:30	13:00	09:30
Appl. Stop Time:	12:30 PM	2:30 PM	10:00 AM
Application Method:	SPRAY	SPRAY	SPRAY
Application Timing:	PREPLA	PREPRE	POSPOS
Application Placement:	SOIL	SOIL	BROADC
Applied By:	Ikley	Devkota	Heneghan
Air Temperature, Unit:	75 F	86.5 F	72 F
% Relative Humidity:	60	60	88
Wind Velocity, Unit:	4 MPH	5 MPH	2.3 MPH
Wind Direction:	N	SSE	N
Dew Presence (Y/N):	N no	N no	Y yes
Soil Temperature, Unit:	69 F	79 F	67 F
Soil Moisture:	VERWET	SLIWET	WET
% Cloud Cover:	60	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	C
Crop 1 Code, BBCH Scale:	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
Stage Scale Used:	BBCH	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	BBCH

Pest Stage At Each Application			
	A	B	C
Pest 1 Code, Type, Scale:	AMBEL W	AMBEL W	AMBEL W
Stage Majority, Percent:	13	34	
Stage Minimum, Percent:	12	33	
Stage Maximum, Percent:	14	35	
Height, Unit:	0.75 IN	10 IN	
Height Minimum, Maximum:	0.5 1	7 12	
Density, Unit:	60 YD2	38 YD2	
Pest 2 Code, Type, Scale:	PANDI W	PANDI W	PANDI W
Stage Majority, Percent:	11	13	14
Stage Minimum, Percent:	10	11	13
Stage Maximum, Percent:	12	14	15
Height, Unit:	0.5 IN	1.75 IN	10 IN
Height Minimum, Maximum:	0.25 0.5	0.5 3	6.5 13
Density, Unit:	50 YD2	60 YD2	10 YD2
Pest 3 Code, Type, Scale:	XANST W	XANST W	XANST W
Stage Majority, Percent:	11	34	
Stage Minimum, Percent:	10	33	
Stage Maximum, Percent:	11	35	
Height, Unit:	0.5 IN	6.5 IN	
Height Minimum, Maximum:	30 40	5 8	
Density, Unit:	8 YD2	20 YD2	
Pest 4 Code, Type, Scale:	ALLVI W	ALLVI W	ALLVI W
Stage Majority, Percent:	18		
Stage Minimum, Percent:	33		
Stage Maximum, Percent:	35		
Height, Unit:	14 IN		
Height Minimum, Maximum:	12 16		
Density, Unit:	30 YD2		
Pest 5 Code, Type, Scale:	BROSS W	BROSS W	BROSS W
Stage Majority, Percent:	45	69	
Stage Minimum, Percent:	12		
Stage Maximum, Percent:	14		
Height, Unit:	6 IN	35 IN	
Height Minimum, Maximum:	5 8	30 40	
Density, Unit:	18 YD2	25 YD2	

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

Trial Comments

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Reps: 4 Plots: 10 by 30 feet
 Spray vol: 15 gal/ac Mix size: 1.8 liters (min 1.5642)

Trt No.	Treatment Name	Form Conc	Form Unit	Form Type	Rate Rate Unit	Other Rate	Other Rate Unit	Growth Stage	Appl Code	Amt to Measure	Product	Rep 1	Rep 2	Rep 3	Rep 4
1	Untreated Check											101	501	701	901
2	Classic	25 %AW/W		DF	23.8 g ai/ha	0.34 oz ai/a		PREPLA A	A	1.221 g/mx		102	305	705	806
	Express	50 %		SG	7 g ai/ha	0.1 oz ai/a		PREPLA A	A	0.1796 g/mx					
	Weedar	3.8 LBAE/GAL		L	533 g ai/ha	1 pt/a		PREPLA A	A	14.99 ml/mx					
	Abundit Extra	3 LBAE/GAL		SL	840 g ae/ha	32 fl oz/a		PREPLA A	A	29.93 ml/mx					
	N-Pak AMS	3.4 LBA/GAL		SL	3.9 % v/v	2 lb ai/a		PREPLA A	A	70.2 ml/mx					
	Classic	25 %AW/W		DF	22.4 g ai/ha	0.32 oz ai/a		PREPRE B	B	1.149 g/mx					
	Harmony SG	50 %		SG	7 g ai/ha	0.1 oz ai/a		PREPRE B	B	0.1796 g/mx					
	Valor	51 %		WG	71.5 g ai/ha	2 oz/a		PREPRE B	B	1.799 g/mx					
	Abundit Extra	3 LBAE/GAL		SL	840 g ae/ha	32 fl oz/a		POSPOS C	C	29.93 ml/mx					
	N-Pak AMS	3.4 LBA/GAL		SL	3.9 % v/v	2 lb ai/a		POSPOS C	C	70.2 ml/mx					
3	Classic	25 %AW/W		DF	23.8 g ai/ha	0.34 oz ai/a		PREPLA A	A	1.221 g/mx		103	304	703	904
	Express	50 %		SG	7 g ai/ha	0.1 oz ai/a		PREPLA A	A	0.1796 g/mx					
	Weedar	3.8 LBAE/GAL		L	533 g ai/ha	1 pt/a		PREPLA A	A	14.99 ml/mx					
	Abundit Extra	3 LBAE/GAL		SL	840 g ae/ha	32 fl oz/a		PREPLA A	A	29.93 ml/mx					
	N-Pak AMS	3.4 LBA/GAL		SL	3.9 % v/v	2 lb ai/a		PREPLA A	A	70.2 ml/mx					
	Canopy	75 %AW/W		DF	210 g ai/ha	4 oz/a		PREPRE B	B	3.592 g/mx					
	Cinch	7.64 LBA/GAL		EC	1070 g ai/ha	1 pt/a		PREPRE B	B	14.97 ml/mx					
	Abundit Extra	3 LBAE/GAL		SL	840 g ae/ha	32 fl oz/a		POSPOS C	C	29.93 ml/mx					
	N-Pak AMS	3.4 LBA/GAL		SL	3.9 % v/v	2 lb ai/a		POSPOS C	C	70.2 ml/mx					
4	Classic	25 %AW/W		DF	23.8 g ai/ha	0.34 oz ai/a		PREPLA A	A	1.221 g/mx		104	404	604	1005
	Express	50 %		SG	7 g ai/ha	0.1 oz ai/a		PREPLA A	A	0.1796 g/mx					
	Weedar	3.8 LBAE/GAL		L	533 g ai/ha	1 pt/a		PREPLA A	A	14.99 ml/mx					
	Abundit Extra	3 LBAE/GAL		SL	840 g ae/ha	32 fl oz/a		PREPLA A	A	29.93 ml/mx					
	N-Pak AMS	3.4 LBA/GAL		SL	3.9 % v/v	2 lb ai/a		PREPLA A	A	70.2 ml/mx					
	Classic	25 %AW/W		DF	22 g ai/ha	0.3125 oz ai/a		PREPRE B	B	1.129 g/mx					
	Sencor 75DF	75 %AW/W		DF	250 g ai/ha	4.75 oz/a		PREPRE B	B	4.276 g/mx					
	Valor	51 %		WG	71.5 g ai/ha	2 oz/a		PREPRE B	B	1.799 g/mx					
	Abundit Extra	3 LBAE/GAL		SL	840 g ae/ha	32 fl oz/a		POSPOS C	C	29.93 ml/mx					
	N-Pak AMS	3.4 LBA/GAL		SL	3.9 % v/v	2 lb ai/a		POSPOS C	C	70.2 ml/mx					
5	Classic	25 %AW/W		DF	22.4 g ai/ha	0.32 oz ai/a		PREPLA A	A	1.149 g/mx		105	403	702	805
	Harmony SG	50 %		SG	7 g ai/ha	0.1 oz ai/a		PREPLA A	A	0.1796 g/mx					
	Valor	51 %		WG	71.5 g ai/ha	2 oz/a		PREPLA A	A	1.799 g/mx					
	Weedar	3.8 LBAE/GAL		L	533 g ai/ha	1 pt/a		PREPLA A	A	14.99 ml/mx					
	Abundit Extra	3 LBAE/GAL		SL	840 g ae/ha	32 fl oz/a		PREPLA A	A	29.93 ml/mx					
	N-Pak AMS	3.4 LBA/GAL		SL	3.9 % v/v	2 lb ai/a		PREPLA A	A	70.2 ml/mx					
	Abundit Extra	3 LBAE/GAL		SL	840 g ae/ha	32 fl oz/a		POSPOS C	C	29.93 ml/mx					
	N-Pak AMS	3.4 LBA/GAL		SL	3.9 % v/v	2 lb ai/a		POSPOS C	C	70.2 ml/mx					
6	Canopy	75 %AW/W		DF	210 g ai/ha	4 oz/a		PREPLA A	A	3.592 g/mx		106	406	706	1003
	Cinch	7.64 LBA/GAL		EC	1070 g ai/ha	1 pt/a		PREPLA A	A	14.97 ml/mx					
	Weedar	3.8 LBAE/GAL		L	533 g ai/ha	1 pt/a		PREPLA A	A	14.99 ml/mx					
	Abundit Extra	3 LBAE/GAL		SL	840 g ae/ha	32 fl oz/a		PREPLA A	A	29.93 ml/mx					
	N-Pak AMS	3.4 LBA/GAL		SL	3.9 % v/v	2 lb ai/a		PREPLA A	A	70.2 ml/mx					
	Abundit Extra	3 LBAE/GAL		SL	840 g ae/ha	32 fl oz/a		POSPOS C	C	29.93 ml/mx					
	N-Pak AMS	3.4 LBA/GAL		SL	3.9 % v/v	2 lb ai/a		POSPOS C	C	70.2 ml/mx					
7	Classic	25 %AW/W		DF	22 g ai/ha	0.3125 oz ai/a		PREPLA A	A	1.129 g/mx		201	402	704	1001
	Sencor 75DF	75 %AW/W		DF	250 g ai/ha	4.75 oz/a		PREPLA A	A	4.276 g/mx					
	Valor	51 %		WG	71.5 g ai/ha	2 oz/a		PREPLA A	A	1.799 g/mx					
	Weedar	3.8 LBAE/GAL		L	533 g ai/ha	1 pt/a		PREPLA A	A	14.99 ml/mx					
	Abundit Extra	3 LBAE/GAL		SL	840 g ae/ha	32 fl oz/a		PREPLA A	A	29.93 ml/mx					
	N-Pak AMS	3.4 LBA/GAL		SL	3.9 % v/v	2 lb ai/a		PREPLA A	A	70.2 ml/mx					
	Abundit Extra	3 LBAE/GAL		SL	840 g ae/ha	32 fl oz/a		POSPOS C	C	29.93 ml/mx					
	N-Pak AMS	3.4 LBA/GAL		SL	3.9 % v/v	2 lb ai/a		POSPOS C	C	70.2 ml/mx					
8	Classic	25 %AW/W		DF	22 g ai/ha	0.3125 oz ai/a		PREPLA A	A	1.129 g/mx		202	502	602	905
	Sencor 75DF	75 %AW/W		DF	250 g ai/ha	4.75 oz/a		PREPLA A	A	4.276 g/mx					
	Valor	51 %		WG	71.5 g ai/ha	2 oz/a		PREPLA A	A	1.799 g/mx					
	Weedar	3.8 LBAE/GAL		L	533 g ai/ha	1 pt/a		PREPLA A	A	14.99 ml/mx					
	Abundit Extra	3 LBAE/GAL		SL	840 g ae/ha	32 fl oz/a		PREPLA A	A	29.93 ml/mx					
	N-Pak AMS	3.4 LBA/GAL		SL	3.9 % v/v	2 lb ai/a		PREPLA A	A	70.2 ml/mx					

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Reps: 4 Plots: 10 by 30 feet
 Spray vol: 15 gal/ac Mix size: 1.8 liters (min 1.5642)

Trt No.	Treatment Name	Form Conc	Form Type	Rate Unit	Other Rate	Growth Stage	Appl Code	Amt Product to Measure	Rep 1	2	3	4
9	Boundary	6.5 LBAE/GAL	EC	1370 g ai/ha	1.5 pt/a	PREPLA	A	22.53 ml/mx	203	505	601	906
	Weedar	3.8 LBAE/GAL	L	533 g ai/ha	1 pt/a	PREPLA	A	14.99 ml/mx				
	Abundit Extra	3 LBAE/GAL	SL	840 g ae/ha	32 fl oz/a	PREPLA	A	29.93 ml/mx				
	N-Pak AMS	3.4 LBAE/GAL	SL	3.9 % v/v	2 lb ai/a	PREPLA	A	70.2 ml/mx				
	Abundit Extra	3 LBAE/GAL	SL	840 g ae/ha	32 fl oz/a	POSPOS	C	29.93 ml/mx				
	N-Pak AMS	3.4 LBAE/GAL	SL	3.9 % v/v	2 lb ai/a	POSPOS	C	70.2 ml/mx				
10	Fierce	76 %	WG	160 g ai/ha	3 oz/a	PREPLA	A	2.701 g/mx	204	506	606	1002
	Weedar	3.8 LBAE/GAL	L	533 g ai/ha	1 pt/a	PREPLA	A	14.99 ml/mx				
	Abundit Extra	3 LBAE/GAL	SL	840 g ae/ha	32 fl oz/a	PREPLA	A	29.93 ml/mx				
	N-Pak AMS	3.4 LBAE/GAL	SL	3.9 % v/v	2 lb ai/a	PREPLA	A	70.2 ml/mx				
	Abundit Extra	3 LBAE/GAL	SL	840 g ae/ha	32 fl oz/a	POSPOS	C	29.93 ml/mx				
	N-Pak AMS	3.4 LBAE/GAL	SL	3.9 % v/v	2 lb ai/a	POSPOS	C	70.2 ml/mx				
11	Abundit Extra	3 LBAE/GAL	SL	840 g ae/ha	32 fl oz/a	PREPRE	B	29.93 ml/mx	205	504	802	1006
	N-Pak AMS	3.4 LBAE/GAL	SL	3.9 % v/v	2 lb ai/a	PREPRE	B	70.2 ml/mx				
	Abundit Extra	3 LBAE/GAL	SL	840 g ae/ha	32 fl oz/a	POSPOS	C	29.93 ml/mx				
	N-Pak AMS	3.4 LBAE/GAL	SL	3.9 % v/v	2 lb ai/a	POSPOS	C	70.2 ml/mx				
12	BASIS	75 %W/W	WDG	17.3 g ai/ha	0.33 oz/a	PREPLA	A	0.2959 g/mx	206	503	605	903
	Classic	25 %AW/W	DF	23.8 g ai/ha	0.34 oz ai/a	PREPLA	A	1.221 g/mx				
	Express	50 %	SG	7 g ai/ha	0.1 oz ai/a	PREPLA	A	0.1796 g/mx				
	Weedar	3.8 LBAE/GAL	L	533 g ai/ha	1 pt/a	PREPLA	A	14.99 ml/mx				
	Abundit Extra	3 LBAE/GAL	SL	840 g ae/ha	32 fl oz/a	PREPLA	A	29.93 ml/mx				
	N-Pak AMS	3.4 LBAE/GAL	SL	3.9 % v/v	2 lb ai/a	PREPLA	A	70.2 ml/mx				
	Classic	25 %AW/W	DF	22.4 g ai/ha	0.32 oz ai/a	PREPRE	B	1.149 g/mx				
	Harmony SG	50 %	SG	7 g ai/ha	0.1 oz ai/a	PREPRE	B	0.1796 g/mx				
	Valor	51 %	WG	71.5 g ai/ha	2 oz/a	PREPRE	B	1.799 g/mx				
	Abundit Extra	3 LBAE/GAL	SL	840 g ae/ha	32 fl oz/a	POSPOS	C	29.93 ml/mx				
	N-Pak AMS	3.4 LBAE/GAL	SL	3.9 % v/v	2 lb ai/a	POSPOS	C	70.2 ml/mx				
	13	BASIS	75 %W/W	WDG	17.3 g ai/ha	0.33 oz/a	PREPLA	A				
Classic		25 %AW/W	DF	23.8 g ai/ha	0.34 oz ai/a	PREPLA	A	1.221 g/mx				
Express		50 %	SG	7 g ai/ha	0.1 oz ai/a	PREPLA	A	0.1796 g/mx				
Weedar		3.8 LBAE/GAL	L	533 g ai/ha	1 pt/a	PREPLA	A	14.99 ml/mx				
Abundit Extra		3 LBAE/GAL	SL	840 g ae/ha	32 fl oz/a	PREPLA	A	29.93 ml/mx				
N-Pak AMS		3.4 LBAE/GAL	SL	3.9 % v/v	2 lb ai/a	PREPLA	A	70.2 ml/mx				
Canopy		75 %AW/W	DF	210 g ai/ha	4 oz/a	PREPRE	B	3.592 g/mx				
Cinch		7.64 LBAE/GAL	EC	1070 g ai/ha	1 pt/a	PREPRE	B	14.97 ml/mx				
Abundit Extra		3 LBAE/GAL	SL	840 g ae/ha	32 fl oz/a	POSPOS	C	29.93 ml/mx				
N-Pak AMS		3.4 LBAE/GAL	SL	3.9 % v/v	2 lb ai/a	POSPOS	C	70.2 ml/mx				
14	BASIS	75 %W/W	WDG	17.3 g ai/ha	0.33 oz/a	PREPLA	A	0.2959 g/mx	302	401	803	1004
	Classic	25 %AW/W	DF	23.8 g ai/ha	0.34 oz ai/a	PREPLA	A	1.221 g/mx				
	Express	50 %	SG	7 g ai/ha	0.1 oz ai/a	PREPLA	A	0.1796 g/mx				
	Weedar	3.8 LBAE/GAL	L	533 g ai/ha	1 pt/a	PREPLA	A	14.99 ml/mx				
	Abundit Extra	3 LBAE/GAL	SL	840 g ae/ha	32 fl oz/a	PREPLA	A	29.93 ml/mx				
	N-Pak AMS	3.4 LBAE/GAL	SL	3.9 % v/v	2 lb ai/a	PREPLA	A	70.2 ml/mx				
	Classic	25 %AW/W	DF	22 g ai/ha	0.3125 oz ai/a	PREPRE	B	1.129 g/mx				
	Sencor 75DF	75 %AW/W	DF	250 g ai/ha	4.75 oz/a	PREPRE	B	4.276 g/mx				
	Valor	51 %	WG	71.5 g ai/ha	2 oz/a	PREPRE	B	1.799 g/mx				
	Abundit Extra	3 LBAE/GAL	SL	840 g ae/ha	32 fl oz/a	POSPOS	C	29.93 ml/mx				
	N-Pak AMS	3.4 LBAE/GAL	SL	3.9 % v/v	2 lb ai/a	POSPOS	C	70.2 ml/mx				
	15	Untreated Check										

Sort Order: Replicate 1

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

Amount*	Unit	Treatment Name	Form Conc	Form Type	Lot Code
15.292	g	Classic	25	DF	
1.078	g	Express	50	SG	
179.939	ml	Weedar	3.8	L	
748.341	ml	Abundit Extra	3	SL	
1,755.000	ml	N-Pak AMS	3.4	SL	
0.539	g	Harmony SG	50	SG	
12.590	g	Valor	51	WG	
10.776	g	Canopy	75	DF	

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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
44.917	ml	Cinch	7.64	EC	
17.105	g	Sencor 75DF	75	DF	
22.532	ml	Boundary	6.5	EC	
2.701	g	Fierce	76	WG	
0.888	g	BASIS	75	WDG	

* '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	W Weed	W Weed
Pest Code	BROSS	AMBEL	ALLVI	PANDI	BROSS
Pest Scientific Name	Bromus sp.	Ambrosia artem>	Allium vineale	Panicum dichot>	Bromus sp.
Pest Name	Bromegrass	Common ragweed	Wild garlic	Fall panicum	Bromegrass
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	5/30/2013	5/30/2013	5/30/2013	5/30/2013	6/13/2013
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Days After First/Last Applic.	22 22	22 22	22 22	22 22	36 14
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	0 DA-B	14 DA-B
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot	1	2	3
5 Classic	22.4 g ai/ha	A 105	100	90	70
Harmony SG	7 g ai/ha	A 403	100	100	90
Valor	71.5 g ai/ha	A 702	100	100	30
Weedar	533 g ai/ha	A 805	100	100	85
Abundit Extra	840 g ae/ha	A			
N-Pak AMS	3.9 % v/v	A			
Abundit Extra	840 g ae/ha	C			
N-Pak AMS	3.9 % v/v	C			
Mean =			100	98	69
4	100				100
99					
6 Canopy	210 g ai/ha	A 106	100	70	60
Cinch	1070 g ai/ha	A 406	100	90	65
Weedar	533 g ai/ha	A 706	95	100	60
Abundit Extra	840 g ae/ha	A 1003	90	100	60
N-Pak AMS	3.9 % v/v	A			
Abundit Extra	840 g ae/ha	C			
N-Pak AMS	3.9 % v/v	C			
Mean =			96	90	61
96					
61					
96					
100					
7 Classic	22 g ai/ha	A 201	75	100	65
Sencor 75DF	250 g ai/ha	A 402	100	100	85
Valor	71.5 g ai/ha	A 704	100	100	70
Weedar	533 g ai/ha	A 1001	100	100	95
Abundit Extra	840 g ae/ha	A			
N-Pak AMS	3.9 % v/v	A			
Abundit Extra	840 g ae/ha	C			
N-Pak AMS	3.9 % v/v	C			
Mean =			94	100	79
94					
79					
100					
100					
8 Classic	22 g ai/ha	A 202	100	100	70
Sencor 75DF	250 g ai/ha	A 502	100	100	60
Valor	71.5 g ai/ha	A 602	100	100	65
Weedar	533 g ai/ha	A 905	85	100	15
Abundit Extra	840 g ae/ha	A			
N-Pak AMS	3.9 % v/v	A			
Mean =			96	100	53
96					
53					
100					
100					
9 Boundary	1370 g ai/ha	A 203	100	100	65
Weedar	533 g ai/ha	A 505	100	100	85
Abundit Extra	840 g ae/ha	A 601	80	100	65
N-Pak AMS	3.9 % v/v	A 906	65	100	85
Abundit Extra	840 g ae/ha	C			
N-Pak AMS	3.9 % v/v	C			
Mean =			86	100	75
86					
75					
100					
100					
10 Fierce	160 g ai/ha	A 204	100	100	30
Weedar	533 g ai/ha	A 506	100	90	90
Abundit Extra	840 g ae/ha	A 606	100	95	85
N-Pak AMS	3.9 % v/v	A 1002	100	100	50
Abundit Extra	840 g ae/ha	C			
N-Pak AMS	3.9 % v/v	C			
Mean =			100	96	64
100					
96					
64					
100					
100					

Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	BROSS	AMBEL	ALLVI	PANDI	BROSS
Pest Scientific Name	Bromus sp.	Ambrosia artem>	Allium vineale	Panicum dichot>	Bromus sp.
Pest Name	Bromegrass	Common ragweed	Wild garlic	Fall panicum	Bromegrass
Crop Code					
BBCH Scale					
Crop Scientific Name					
Crop Name					
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	5/30/2013	5/30/2013	5/30/2013	5/30/2013	6/13/2013
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Days After First/Last Applic.	22 22	22 22	22 22	22 22	36 14
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	0 DA-B	14 DA-B
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot	1	2	3
			4	5	
11 Abundit Extra	840 g ae/ha B	205	0	0	0
N-Pak AMS	3.9 % v/v B	504	0	0	0
Abundit Extra	840 g ae/ha C	802	0	0	0
N-Pak AMS	3.9 % v/v C	1006	0	0	0
	Mean =		0	0	0
12 BASIS	17.3 g ai/ha A	206	100	75	30
Classic	23.8 g ai/ha A	503	95	100	50
Express	7 g ai/ha A	605	100	100	15
Weedar	533 g ai/ha A	903	96*	100	30
Abundit Extra	840 g ae/ha A				
N-Pak AMS	3.9 % v/v A				
Classic	22.4 g ai/ha B				
Harmony SG	7 g ai/ha B				
Valor	71.5 g ai/ha B				
Abundit Extra	840 g ae/ha C				
N-Pak AMS	3.9 % v/v C				
	Mean =		98	94	31
13 BASIS	17.3 g ai/ha A	301	100	100	50
Classic	23.8 g ai/ha A	405	100	100	30
Express	7 g ai/ha A	603	100	100	35
Weedar	533 g ai/ha A	902	100	100	50
Abundit Extra	840 g ae/ha A				
N-Pak AMS	3.9 % v/v A				
Canopy	210 g ai/ha B				
Cinch	1070 g ai/ha B				
Abundit Extra	840 g ae/ha C				
N-Pak AMS	3.9 % v/v C				
	Mean =		100	100	41
14 BASIS	17.3 g ai/ha A	302	100	95	80
Classic	23.8 g ai/ha A	401	85	100	65
Express	7 g ai/ha A	803	100	100	50
Weedar	533 g ai/ha A	1004	100	100	35
Abundit Extra	840 g ae/ha A				
N-Pak AMS	3.9 % v/v A				
Classic	22 g ai/ha B				
Sencor 75DF	250 g ai/ha B				
Valor	71.5 g ai/ha B				
Abundit Extra	840 g ae/ha C				
N-Pak AMS	3.9 % v/v C				
	Mean =		96	99	58
15 Untreated Check		303	0	0	0
		306	0	0	0
		801	0	0	0
		804	0	0	0
	Mean =		0	0	0

Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed		
Pest Code	AMBEL	PANDI	XANST		
Pest Scientific Name	Ambrosia artem>	Panicum dichot>	Xanthium strum>		
Pest Name	Common ragweed	Fall panicum	Heart-leaf coc>		
Crop Code				GLXMA	GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Part Rated	PLOT P	PLOT P	PLOT P	PLOT C	PLOT C
Rating Date	6/13/2013	6/13/2013	6/13/2013	6/13/2013	6/27/2013
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	PHYGEN
Rating Unit	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Days After First/Last Applic.	36 14	36 14	36 14	36 14	50 28
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	28 DA-B
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot	6	7	8
1 Untreated Check		101	0	0	0
		501	0	0	0
		701	0	0	0
		901	0	0	0
		Mean =	0	0	0
2 Classic	23.8 g ai/ha A	102	95	95	100
Express	7 g ai/ha A	305	100	95	100
Weedar	533 g ai/ha A	705	85	65	100
Abundit Extra	840 g ae/ha A	806	70	75	100
N-Pak AMS	3.9 % v/v A				
Classic	22.4 g ai/ha B				
Harmony SG	7 g ai/ha B				
Valor	71.5 g ai/ha B				
Abundit Extra	840 g ae/ha C				
N-Pak AMS	3.9 % v/v C				
		Mean =	88	83	100
3 Classic	23.8 g ai/ha A	103	100	100	100
Express	7 g ai/ha A	304	95	100	100
Weedar	533 g ai/ha A	703	100	100	100
Abundit Extra	840 g ae/ha A	904	100	100	100
N-Pak AMS	3.9 % v/v A				
Canopy	210 g ai/ha B				
Cinch	1070 g ai/ha B				
Abundit Extra	840 g ae/ha C				
N-Pak AMS	3.9 % v/v C				
		Mean =	99	100	100
4 Classic	23.8 g ai/ha A	104	100	100	100
Express	7 g ai/ha A	404	100	100	100
Weedar	533 g ai/ha A	604	100	100	100
Abundit Extra	840 g ae/ha A	1005	100	100	100
N-Pak AMS	3.9 % v/v A				
Classic	22 g ai/ha B				
Sencor 75DF	250 g ai/ha B				
Valor	71.5 g ai/ha B				
Abundit Extra	840 g ae/ha C				
N-Pak AMS	3.9 % v/v C				
		Mean =	100	100	100

Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed		
Pest Code	AMBEL	PANDI	XANST		
Pest Scientific Name	Ambrosia artem>	Panicum dichot>	Xanthium strum>		
Pest Name	Common ragweed	Fall panicum	Heart-leaf coc>		
Crop Code				GLXMA	GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Part Rated	PLOT P	PLOT P	PLOT P	PLOT C	PLOT C
Rating Date	6/13/2013	6/13/2013	6/13/2013	6/13/2013	6/27/2013
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	PHYGEN
Rating Unit	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Days After First/Last Applic.	36 14	36 14	36 14	36 14	50 28
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	28 DA-B
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot	6	7	8
5 Classic	22.4 g ai/ha A	105	100	95	85
Harmony SG	7 g ai/ha A	403	100	100	100
Valor	71.5 g ai/ha A	702	100	100	100
Weedar	533 g ai/ha A	805	100	75	100
Abundit Extra	840 g ae/ha A				
N-Pak AMS	3.9 % v/v A				
Abundit Extra	840 g ae/ha C				
N-Pak AMS	3.9 % v/v C				
Mean =			100	93	96
6 Canopy	210 g ai/ha A	106	70	65	92*
Cinch	1070 g ai/ha A	406	65	70	90
Weedar	533 g ai/ha A	706	50	55	85
Abundit Extra	840 g ae/ha A	1003	50	80	100
N-Pak AMS	3.9 % v/v A				
Abundit Extra	840 g ae/ha C				
N-Pak AMS	3.9 % v/v C				
Mean =			59	68	92
7 Classic	22 g ai/ha A	201	100	95	95
Sencor 75DF	250 g ai/ha A	402	100	100	100
Valor	71.5 g ai/ha A	704	90	95	100
Weedar	533 g ai/ha A	1001	100	75	100
Abundit Extra	840 g ae/ha A				
N-Pak AMS	3.9 % v/v A				
Abundit Extra	840 g ae/ha C				
N-Pak AMS	3.9 % v/v C				
Mean =			98	91	99
8 Classic	22 g ai/ha A	202	100	100	100
Sencor 75DF	250 g ai/ha A	502	100	100	100
Valor	71.5 g ai/ha A	602	100	100	100
Weedar	533 g ai/ha A	905	90	75	100
Abundit Extra	840 g ae/ha A				
N-Pak AMS	3.9 % v/v A				
Mean =			98	94	100
9 Boundary	1370 g ai/ha A	203	100	100	70
Weedar	533 g ai/ha A	505	80	90	50
Abundit Extra	840 g ae/ha A	601	100	70	85
N-Pak AMS	3.9 % v/v A	906	65	50	85
Abundit Extra	840 g ae/ha C				
N-Pak AMS	3.9 % v/v C				
Mean =			86	78	73
10 Fierce	160 g ai/ha A	204	100	100	100
Weedar	533 g ai/ha A	506	70	60	100*
Abundit Extra	840 g ae/ha A	606	60	70	100*
N-Pak AMS	3.9 % v/v A	1002	100	95	100
Abundit Extra	840 g ae/ha C				
N-Pak AMS	3.9 % v/v C				
Mean =			83	81	100

Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed		
Pest Code	AMBEL	PANDI	XANST		
Pest Scientific Name	Ambrosia artem>	Panicum dichot>	Xanthium strum>		
Pest Name	Common ragweed	Fall panicum	Heart-leaf coc>		
Crop Code				GLXMA	GLXMA
BBCH Scale				BSOY	BSOY
Crop Scientific Name				Glycine max	Glycine max
Crop Name				Soybean	Soybean
Part Rated	PLOT P	PLOT P	PLOT P	PLOT C	PLOT C
Rating Date	6/13/2013	6/13/2013	6/13/2013	6/13/2013	6/27/2013
Rating Type	CONTRO	CONTRO	CONTRO	PHYGEN	PHYGEN
Rating Unit	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Days After First/Last Applic.	36 14	36 14	36 14	36 14	50 28
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	14 DA-B	28 DA-B
ARM Action Codes	P	P	P	P	P
Number of Decimals	0	0	0	0	0
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot	6	7	8
11 Abundit Extra	840 g ae/ha B	205	60	90	90
N-Pak AMS	3.9 % v/v B	504	82*	86*	97*
Abundit Extra	840 g ae/ha C	802	100	85	100
N-Pak AMS	3.9 % v/v C	1006	85	75	100
	Mean =		82	84	97
12 BASIS	17.3 g ai/ha A	206	90	100	100
Classic	23.8 g ai/ha A	503	100	100	100
Express	7 g ai/ha A	605	100	90	100
Weedar	533 g ai/ha A	903	100	100	100
Abundit Extra	840 g ae/ha A				
N-Pak AMS	3.9 % v/v A				
Classic	22.4 g ai/ha B				
Harmony SG	7 g ai/ha B				
Valor	71.5 g ai/ha B				
Abundit Extra	840 g ae/ha C				
N-Pak AMS	3.9 % v/v C				
	Mean =		98	98	100
13 BASIS	17.3 g ai/ha A	301	100	100	100
Classic	23.8 g ai/ha A	405	100	100	100
Express	7 g ai/ha A	603	100	100	100
Weedar	533 g ai/ha A	902	100	100	100
Abundit Extra	840 g ae/ha A				
N-Pak AMS	3.9 % v/v A				
Canopy	210 g ai/ha B				
Cinch	1070 g ai/ha B				
Abundit Extra	840 g ae/ha C				
N-Pak AMS	3.9 % v/v C				
	Mean =		100	100	100
14 BASIS	17.3 g ai/ha A	302	100	100	100
Classic	23.8 g ai/ha A	401	100	100	100
Express	7 g ai/ha A	803	100	100	100
Weedar	533 g ai/ha A	1004	100	100	100
Abundit Extra	840 g ae/ha A				
N-Pak AMS	3.9 % v/v A				
Classic	22 g ai/ha B				
Sencor 75DF	250 g ai/ha B				
Valor	71.5 g ai/ha B				
Abundit Extra	840 g ae/ha C				
N-Pak AMS	3.9 % v/v C				
	Mean =		100	100	100
15 Untreated Check		303	0	0	0
		306	0	0	0
		801	0	0	0
		804	0	0	0
	Mean =		0	0	0

Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	PANDI	IPOSS		PANDI	AMBEL			
Pest Scientific Name	Panicum dichot>	Ipomoea sp.		Panicum dichot>	Ambrosia artem>			
Pest Name	Fall panicum	Morning glory		Fall panicum	Common ragweed			
Crop Code			GLXMA		GLXMA			
BBCH Scale			BSOY		BSOY			
Crop Scientific Name			Glycine max		Glycine max			
Crop Name			Soybean		Soybean			
Part Rated	PLOT P	PLOT P	PLOT C	PLOT P	PLOT P			
Rating Date	6/27/2013	6/27/2013	8/9/2013	8/9/2013	8/9/2013			
Rating Type	CONTRO	CONTRO	PHYGEN	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT			
Days After First/Last Applic.	50 28	50 28	93 35	93 35	93 35			
Trt-Eval Interval	28 DA-B	28 DA-B	35 DA-C	35 DA-C	35 DA-C			
ARM Action Codes	P	P	P	P	P			
Number of Decimals	0	0	0	0	0			
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code Plot	11	12	13	14	15	16
1 Untreated Check		101	0	0	0	0	0	5.2217335
		501	0	0	0	0	0	8.9312909
		701	0	0	0	0	0	5.5980686
		901	0	0	0	0	0	7.7736000*
		Mean =	0	0	0	0	0	6.8811732
2 Classic	23.8 g ai/ha A	102	100	100	0	99	100	11.4691551
Express	7 g ai/ha A	305	95	100	0	100	100	13.7782834
Weedar	533 g ai/ha A	705	70	100	0	100	100	15.6578156
Abundit Extra	840 g ae/ha A	806	60	100	0	100	100	15.7652146
N-Pak AMS	3.9 % v/v A							
Classic	22.4 g ai/ha B							
Harmony SG	7 g ai/ha B							
Valor	71.5 g ai/ha B							
Abundit Extra	840 g ae/ha C							
N-Pak AMS	3.9 % v/v C							
		Mean =	81	100	0	100	100	14.1676172
3 Classic	23.8 g ai/ha A	103	95	95	0	99	99	11.6302502
Express	7 g ai/ha A	304	100	100	0	95	100	13.9393854
Weedar	533 g ai/ha A	703	95	95	0	100	100	17.2151427
Abundit Extra	840 g ae/ha A	904	100	95	0	100	100	16.8929307
N-Pak AMS	3.9 % v/v A							
Canopy	210 g ai/ha B							
Cinch	1070 g ai/ha B							
Abundit Extra	840 g ae/ha C							
N-Pak AMS	3.9 % v/v C							
		Mean =	98	96	0	99	100	14.9194272
4 Classic	23.8 g ai/ha A	104	100	95	0	95	100	15.6578156
Express	7 g ai/ha A	404	100	100	0	100	100	16.6244297
Weedar	533 g ai/ha A	604	100	100	0	100	100	18.2891478
Abundit Extra	840 g ae/ha A	1005	95	100	0	100	85	17.4836367
N-Pak AMS	3.9 % v/v A							
Classic	22 g ai/ha B							
Sencor 75DF	250 g ai/ha B							
Valor	71.5 g ai/ha B							
Abundit Extra	840 g ae/ha C							
N-Pak AMS	3.9 % v/v C							
		Mean =	99	99	0	99	96	17.0137575

Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	PANDI	IPOSS			PANDI	AMBEL
Pest Scientific Name	Panicum dichot>	Ipomoea sp.			Panicum dichot>	Ambrosia artem>
Pest Name	Fall panicum	Morning glory			Fall panicum	Common ragweed
Crop Code			GLXMA			GLXMA
BBCH Scale			BSOY			BSOY
Crop Scientific Name			Glycine max			Glycine max
Crop Name			Soybean			Soybean
Part Rated	PLOT P	PLOT P	PLOT C		PLOT P	PLOT P
Rating Date	6/27/2013	6/27/2013	8/9/2013		8/9/2013	8/9/2013
Rating Type	CONTRO	CONTRO	PHYGEN		CONTRO	CONTRO
Rating Unit	%	%	%		%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT		1 PLOT	1 PLOT
Days After First/Last Applic.	50 28	50 28	93 35		93 35	93 35
Trt-Eval Interval	28 DA-B	28 DA-B	35 DA-C		35 DA-C	35 DA-C
ARM Action Codes	P	P	P		P	P
Number of Decimals	0	0	0		0	0
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	11	12	13	14
5 Classic	22.4 g ai/ha A	105	88*	100	0	100
Harmony SG	7 g ai/ha A	403	95	95	0	100
Valor	71.5 g ai/ha A	702	90	90	0	100
Weedar	533 g ai/ha A	805	80	100	0	100
Abundit Extra	840 g ae/ha A					
N-Pak AMS	3.9 % v/v A					
Abundit Extra	840 g ae/ha C					
N-Pak AMS	3.9 % v/v C					
Mean =			88	96	0	100
6 Canopy	210 g ai/ha A	106	0	65*	0	100
Cinch	1070 g ai/ha A	406	0	65*	0	100
Weedar	533 g ai/ha A	706	0	30	0	100
Abundit Extra	840 g ae/ha A	1003	0*	100	0	100
N-Pak AMS	3.9 % v/v A					
Abundit Extra	840 g ae/ha C					
N-Pak AMS	3.9 % v/v C					
Mean =			0	65	0	100
7 Classic	22 g ai/ha A	201	70	100	0	100
Sencor 75DF	250 g ai/ha A	402	95	95	0	100
Valor	71.5 g ai/ha A	704	85	100	0	100
Weedar	533 g ai/ha A	1001	60	60	0	100
Abundit Extra	840 g ae/ha A					
N-Pak AMS	3.9 % v/v A					
Abundit Extra	840 g ae/ha C					
N-Pak AMS	3.9 % v/v C					
Mean =			78	89	0	100
8 Classic	22 g ai/ha A	202	95	95	0	60
Sencor 75DF	250 g ai/ha A	502	95	90	0	80
Valor	71.5 g ai/ha A	602	100	100	0	75
Weedar	533 g ai/ha A	905	60	100	0	20
Abundit Extra	840 g ae/ha A					
N-Pak AMS	3.9 % v/v A					
Mean =			88	96	0	59
9 Boundary	1370 g ai/ha A	203	80	50	0	100
Weedar	533 g ai/ha A	505	80	85	0	100
Abundit Extra	840 g ae/ha A	601	30	72*	0	100
N-Pak AMS	3.9 % v/v A	906	63*	80	0	100
Abundit Extra	840 g ae/ha C					
N-Pak AMS	3.9 % v/v C					
Mean =			63	72	0	100
10 Fierce	160 g ai/ha A	204	80	100	0	100
Weedar	533 g ai/ha A	506	88*	80*	0	100
Abundit Extra	840 g ae/ha A	606	88*	80*	0	100
N-Pak AMS	3.9 % v/v A	1002	95	60	0	100
Abundit Extra	840 g ae/ha C					
N-Pak AMS	3.9 % v/v C					
Mean =			88	80	0	100

Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	PANDI	IPOSS			PANDI	AMBEL
Pest Scientific Name	Panicum dichot>	Ipomoea sp.			Panicum dichot>	Ambrosia artem>
Pest Name	Fall panicum	Morning glory			Fall panicum	Common ragweed
Crop Code			GLXMA			GLXMA
BBCH Scale			BSOY			BSOY
Crop Scientific Name			Glycine max			Glycine max
Crop Name			Soybean			Soybean
Part Rated	PLOT P	PLOT P	PLOT C		PLOT P	PLOT P
Rating Date	6/27/2013	6/27/2013	8/9/2013		8/9/2013	8/9/2013
Rating Type	CONTRO	CONTRO	PHYGEN		CONTRO	CONTRO
Rating Unit	%	%	%		%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT		1 PLOT	1 PLOT
Days After First/Last Applic.	50 28	50 28	93 35		93 35	93 35
Trt-Eval Interval	28 DA-B	28 DA-B	35 DA-C		35 DA-C	35 DA-C
ARM Action Codes	P	P	P		P	P
Number of Decimals	0	0	0		0	0
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	11	12	13	14
11 Abundit Extra	840 g ae/ha	B 205	20	0	0	100
N-Pak AMS	3.9 % v/v	B 504	70	85	0	100
Abundit Extra	840 g ae/ha	C 802	60	90	0	100
N-Pak AMS	3.9 % v/v	C 1006	0	0	0	100
		Mean =	38	44	0	100
12 BASIS	17.3 g ai/ha	A 206	90	95	2	90
Classic	23.8 g ai/ha	A 503	100	95	30	95
Express	7 g ai/ha	A 605	60	100	3	100
Weedar	533 g ai/ha	A 903	100	100	3	100
Abundit Extra	840 g ae/ha	A				
N-Pak AMS	3.9 % v/v	A				
Classic	22.4 g ai/ha	B				
Harmony SG	7 g ai/ha	B				
Valor	71.5 g ai/ha	B				
Abundit Extra	840 g ae/ha	C				
N-Pak AMS	3.9 % v/v	C				
		Mean =	88	98	10	96
13 BASIS	17.3 g ai/ha	A 301	100	100	30	70
Classic	23.8 g ai/ha	A 405	95	100	15	100
Express	7 g ai/ha	A 603	100	95	25	99
Weedar	533 g ai/ha	A 902	100	100	25	100
Abundit Extra	840 g ae/ha	A				
N-Pak AMS	3.9 % v/v	A				
Canopy	210 g ai/ha	B				
Cinch	1070 g ai/ha	B				
Abundit Extra	840 g ae/ha	C				
N-Pak AMS	3.9 % v/v	C				
		Mean =	99	99	24	92
14 BASIS	17.3 g ai/ha	A 302	100	100	35	90
Classic	23.8 g ai/ha	A 401	90	100	25	60
Express	7 g ai/ha	A 803	100	100	5	100
Weedar	533 g ai/ha	A 1004	100	100	3	100
Abundit Extra	840 g ae/ha	A				
N-Pak AMS	3.9 % v/v	A				
Classic	22 g ai/ha	B				
Sencor 75DF	250 g ai/ha	B				
Valor	71.5 g ai/ha	B				
Abundit Extra	840 g ae/ha	C				
N-Pak AMS	3.9 % v/v	C				
		Mean =	98	100	17	88
15 Untreated Check		303	0	0	0	0
		306	0	0	0	0
		801	0	0	0	0
		804	0	0	0	0
		Mean =	0	0	0	0

Purdue University Weed Science

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.			146 88	146 88	
Trt-Eval Interval					
ARM Action Codes			TY1	TY2	
Number of Decimals			1	1	
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot	17	18	
1 Untreated Check		101	14.5	972.9	
		501	24.7	1664.1	
		701	15.5	1043.0	
		901	21.5*	1448.4*	
		Mean =	19.1	1282.1	
2 Classic	23.8 g ai/ha	A 102	31.8	2136.9	
Express	7 g ai/ha	A 305	38.2	2567.2	
Weedar	533 g ai/ha	A 705	43.4	2917.4	
Abundit Extra	840 g ae/ha	A 806	43.7	2937.4	
N-Pak AMS	3.9 % v/v	A			
Classic	22.4 g ai/ha	B			
Harmony SG	7 g ai/ha	B			
Valor	71.5 g ai/ha	B			
Abundit Extra	840 g ae/ha	C			
N-Pak AMS	3.9 % v/v	C			
		Mean =	39.3	2639.7	
3 Classic	23.8 g ai/ha	A 103	32.2	2166.9	
Express	7 g ai/ha	A 304	38.6	2597.2	
Weedar	533 g ai/ha	A 703	47.7	3207.5	
Abundit Extra	840 g ae/ha	A 904	46.8	3147.5	
N-Pak AMS	3.9 % v/v	A			
Canopy	210 g ai/ha	B			
Cinch	1070 g ai/ha	B			
Abundit Extra	840 g ae/ha	C			
N-Pak AMS	3.9 % v/v	C			
		Mean =	41.3	2779.8	
4 Classic	23.8 g ai/ha	A 104	43.4	2917.4	
Express	7 g ai/ha	A 404	46.1	3097.4	
Weedar	533 g ai/ha	A 604	50.7	3407.6	
Abundit Extra	840 g ae/ha	A 1005	48.4	3257.5	
N-Pak AMS	3.9 % v/v	A			
Classic	22 g ai/ha	B			
Sencor 75DF	250 g ai/ha	B			
Valor	71.5 g ai/ha	B			
Abundit Extra	840 g ae/ha	C			
N-Pak AMS	3.9 % v/v	C			
		Mean =	47.1	3170.0	

Purdue University Weed Science

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.	146 88	146 88		
Trt-Eval Interval				
ARM Action Codes	TY1	TY2		
Number of Decimals	1	1		
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	17	18
5 Classic	22.4 g ai/ha	A 105	36.7	2467.1
Harmony SG	7 g ai/ha	A 403	50.5	3397.6
Valor	71.5 g ai/ha	A 702	41.7	2807.3
Weedar	533 g ai/ha	A 805	46.1	3097.4
Abundit Extra	840 g ae/ha	A		
N-Pak AMS	3.9 % v/v	A		
Abundit Extra	840 g ae/ha	C		
N-Pak AMS	3.9 % v/v	C		
	Mean =		43.8	2942.4
6 Canopy	210 g ai/ha	A 106	39.8	2677.2
Cinch	1070 g ai/ha	A 406	51.4	3457.6
Weedar	533 g ai/ha	A 706	50.7	3407.6
Abundit Extra	840 g ae/ha	A 1003	51.6	3467.7
N-Pak AMS	3.9 % v/v	A		
Abundit Extra	840 g ae/ha	C		
N-Pak AMS	3.9 % v/v	C		
	Mean =		48.4	3252.5
7 Classic	22 g ai/ha	A 201	43.4	2916.2
Sencor 75DF	250 g ai/ha	A 402	39.2	2637.2
Valor	71.5 g ai/ha	A 704	47.1	3167.5
Weedar	533 g ai/ha	A 1001	43.2	2907.3
Abundit Extra	840 g ae/ha	A		
N-Pak AMS	3.9 % v/v	A		
Abundit Extra	840 g ae/ha	C		
N-Pak AMS	3.9 % v/v	C		
	Mean =		43.2	2907.0
8 Classic	22 g ai/ha	A 202	38.0	2557.2
Sencor 75DF	250 g ai/ha	A 502	43.1	2897.3
Valor	71.5 g ai/ha	A 602	42.5	2857.3
Weedar	533 g ai/ha	A 905	30.6	2056.9
Abundit Extra	840 g ae/ha	A		
N-Pak AMS	3.9 % v/v	A		
	Mean =		38.5	2592.2
9 Boundary	1370 g ai/ha	A 203	48.3	3247.5
Weedar	533 g ai/ha	A 505	48.0	3227.5
Abundit Extra	840 g ae/ha	A 601	44.0	2956.2
N-Pak AMS	3.9 % v/v	A 906	50.2	3377.6
Abundit Extra	840 g ae/ha	C		
N-Pak AMS	3.9 % v/v	C		
	Mean =		47.6	3202.2
10 Fierce	160 g ai/ha	A 204	44.4	2987.4
Weedar	533 g ai/ha	A 506	50.4	3387.6
Abundit Extra	840 g ae/ha	A 606	53.5	3597.7
N-Pak AMS	3.9 % v/v	A 1002	42.6	2867.3
Abundit Extra	840 g ae/ha	C		
N-Pak AMS	3.9 % v/v	C		
	Mean =		47.7	3210.0

Purdue University Weed Science

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.		146 88	146 88		
Trt-Eval Interval					
ARM Action Codes		TY1	TY2		
Number of Decimals		1	1		
Trt Treatment	Rate	Appl			
No. Name	Rate Unit	Code Plot	17	18	
11 Abundit Extra	840 g ae/ha	B 205	39.5	2657.2	
N-Pak AMS	3.9 % v/v	B 504	41.0	2757.3	
Abundit Extra	840 g ae/ha	C 802	46.1	3097.4	
N-Pak AMS	3.9 % v/v	C 1006	50.1	3367.6	
		Mean =	44.2	2969.9	
12 BASIS	17.3 g ai/ha	A 206	37.6	2527.1	
Classic	23.8 g ai/ha	A 503	26.6	1786.7	
Express	7 g ai/ha	A 605	40.3	2707.2	
Weedar	533 g ai/ha	A 903	51.3	3447.6	
Abundit Extra	840 g ae/ha	A			
N-Pak AMS	3.9 % v/v	A			
Classic	22.4 g ai/ha	B			
Harmony SG	7 g ai/ha	B			
Valor	71.5 g ai/ha	B			
Abundit Extra	840 g ae/ha	C			
N-Pak AMS	3.9 % v/v	C			
		Mean =	38.9	2617.2	
13 BASIS	17.3 g ai/ha	A 301	33.1	2225.0	
Classic	23.8 g ai/ha	A 405	39.8	2677.2	
Express	7 g ai/ha	A 603	27.6	1856.8	
Weedar	533 g ai/ha	A 902	35.2	2367.0	
Abundit Extra	840 g ae/ha	A			
N-Pak AMS	3.9 % v/v	A			
Canopy	210 g ai/ha	B			
Cinch	1070 g ai/ha	B			
Abundit Extra	840 g ae/ha	C			
N-Pak AMS	3.9 % v/v	C			
		Mean =	33.9	2281.5	
14 BASIS	17.3 g ai/ha	A 302	26.0	1746.7	
Classic	23.8 g ai/ha	A 401	31.4	2114.8	
Express	7 g ai/ha	A 803	47.0	3157.5	
Weedar	533 g ai/ha	A 1004	45.5	3057.4	
Abundit Extra	840 g ae/ha	A			
N-Pak AMS	3.9 % v/v	A			
Classic	22 g ai/ha	B			
Sencor 75DF	250 g ai/ha	B			
Valor	71.5 g ai/ha	B			
Abundit Extra	840 g ae/ha	C			
N-Pak AMS	3.9 % v/v	C			
		Mean =	37.5	2519.1	
15 Untreated Check		303	16.5	1106.4	
		306	8.1	546.1	
		801	13.9	936.3	
		804	13.9	936.3	
		Mean =	13.1	881.2	

Purdue University Weed Science

DPX R5W13 Applied as a burndown before soybean planting in the midwest

Trial ID: 13S-SEP-CTS-08 Location: SEPAC Trial Year: 2013
 Protocol ID: 13S-SEP-CTS-08 Investigator: Dr. Bill Johnson
 Project ID: US 117/13/01 Study Director: Joe Ikley
 Sponsor Contact: DuPont - Kelly Barnett

Pest Type

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

Pest Code

BROSS, Bromus sp., = US

AMBEL, Ambrosia artemisiifolia, = US

ALLV1, Allium vineale, = US

PAND1, Panicum dichotomiflorum, = US

XANST, Xanthium strumarium, = US

IPOSS, Ipomoea sp., = 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*[16]

TY2 = 186.3191*[16]

Purdue University Weed Science

DPX R5W13 Applied as a burndown before soybean planting in the midwest

Trial ID: 13S-SEP-CTS-08 Location: SEPAC Trial Year: 2013
 Protocol ID: 13S-SEP-CTS-08 Investigator: Dr. Bill Johnson
 Project ID: US 117/13/01 Study Director: Joe Ikley
 Sponsor Contact: DuPont - Kelly Barnett

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	BROSS	AMBEL	ALLVI	PANDI	BROSS	AMBEL		
Pest Scientific Name	Bromus sp.	Ambrosia artem>	Allium vineale	Panicum dichot>	Bromus sp.	Ambrosia artem>		
Pest Name	Bromegrass	Common ragweed	Wild garlic	Fall panicum	Bromegrass	Common ragweed		
Crop Code								
BBCH Scale								
Crop Scientific Name								
Crop Name								
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	5/30/2013	5/30/2013	5/30/2013	5/30/2013	6/13/2013	6/13/2013		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Days After First/Last Applic.	22 22	22 22	22 22	22 22	36 14	36 14		
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	0 DA-B	14 DA-B	14 DA-B		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	1	2	3	4	5	6
1 Untreated Check			0 b	0 b	0 c	0 b	0 b	0 c
2 Classic	23.8 g ai/ha A		100 a	98 a	65 ab	95 a	99 a	88 a
Express	7 g ai/ha A							
Weedar	533 g ai/ha A							
Abundit Extra	840 g ae/ha A							
N-Pak AMS	3.9 % v/v A							
Classic	22.4 g ai/ha B							
Harmony SG	7 g ai/ha B							
Valor	71.5 g ai/ha B							
Abundit Extra	840 g ae/ha C							
N-Pak AMS	3.9 % v/v C							
3 Classic	23.8 g ai/ha A		96 a	99 a	59 ab	100 a	100 a	99 a
Express	7 g ai/ha A							
Weedar	533 g ai/ha A							
Abundit Extra	840 g ae/ha A							
N-Pak AMS	3.9 % v/v A							
Canopy	210 g ai/ha B							
Cinch	1070 g ai/ha B							
Abundit Extra	840 g ae/ha C							
N-Pak AMS	3.9 % v/v C							
4 Classic	23.8 g ai/ha A		98 a	100 a	54 ab	100 a	100 a	100 a
Express	7 g ai/ha A							
Weedar	533 g ai/ha A							
Abundit Extra	840 g ae/ha A							
N-Pak AMS	3.9 % v/v A							
Classic	22 g ai/ha B							
Sencor 75DF	250 g ai/ha B							
Valor	71.5 g ai/ha B							
Abundit Extra	840 g ae/ha C							
N-Pak AMS	3.9 % v/v C							
5 Classic	22.4 g ai/ha A		100 a	98 a	69 ab	100 a	99 a	100 a
Harmony SG	7 g ai/ha A							
Valor	71.5 g ai/ha A							
Weedar	533 g ai/ha A							
Abundit Extra	840 g ae/ha A							
N-Pak AMS	3.9 % v/v A							
Abundit Extra	840 g ae/ha C							
N-Pak AMS	3.9 % v/v C							

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=1,4,5,6,7,16,17,18; Average=8,11,12

Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	BROSS	AMBEL	ALLVI	PANDI	BROSS	AMBEL
Pest Scientific Name	Bromus sp.	Ambrosia artem>	Allium vineale	Panicum dichot>	Bromus sp.	Ambrosia artem>
Pest Name	Bromegrass	Common ragweed	Wild garlic	Fall panicum	Bromegrass	Common ragweed
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	5/30/2013	5/30/2013	5/30/2013	5/30/2013	6/13/2013	6/13/2013
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Days After First/Last Applic.	22 22	22 22	22 22	22 22	36 14	36 14
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	0 DA-B	14 DA-B	14 DA-B
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code	1	2	3	4
6 Canopy	210 g ai/ha A		96 a	90 a	61 ab	96 a
Cinch	1070 g ai/ha A					100 a
Weedar	533 g ai/ha A					
Abundit Extra	840 g ae/ha A					
N-Pak AMS	3.9 % v/v A					
Abundit Extra	840 g ae/ha C					
N-Pak AMS	3.9 % v/v C					59 b
7 Classic	22 g ai/ha A		94 a	100 a	79 a	100 a
Sencor 75DF	250 g ai/ha A					100 a
Valor	71.5 g ai/ha A					
Weedar	533 g ai/ha A					
Abundit Extra	840 g ae/ha A					
N-Pak AMS	3.9 % v/v A					
Abundit Extra	840 g ae/ha C					
N-Pak AMS	3.9 % v/v C					98 a
8 Classic	22 g ai/ha A		96 a	100 a	53 ab	100 a
Sencor 75DF	250 g ai/ha A					100 a
Valor	71.5 g ai/ha A					
Weedar	533 g ai/ha A					
Abundit Extra	840 g ae/ha A					
N-Pak AMS	3.9 % v/v A					
9 Boundary	1370 g ai/ha A		86 a	100 a	75 a	100 a
Weedar	533 g ai/ha A					100 a
Abundit Extra	840 g ae/ha A					
N-Pak AMS	3.9 % v/v A					
Abundit Extra	840 g ae/ha C					
N-Pak AMS	3.9 % v/v C					86 a
10 Fierce	160 g ai/ha A		100 a	96 a	64 ab	100 a
Weedar	533 g ai/ha A					100 a
Abundit Extra	840 g ae/ha A					
N-Pak AMS	3.9 % v/v A					
Abundit Extra	840 g ae/ha C					
N-Pak AMS	3.9 % v/v C					83 a
11 Abundit Extra	840 g ae/ha B		0 b	0 b	0 c	0 b
N-Pak AMS	3.9 % v/v B					100 a
Abundit Extra	840 g ae/ha C					
N-Pak AMS	3.9 % v/v C					82 a
12 BASIS	17.3 g ai/ha A		98 a	94 a	31 bc	100 a
Classic	23.8 g ai/ha A					100 a
Express	7 g ai/ha A					
Weedar	533 g ai/ha A					
Abundit Extra	840 g ae/ha A					
N-Pak AMS	3.9 % v/v A					
Classic	22.4 g ai/ha B					
Harmony SG	7 g ai/ha B					
Valor	71.5 g ai/ha B					
Abundit Extra	840 g ae/ha C					
N-Pak AMS	3.9 % v/v C					98 a

Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	BROSS	AMBEL	ALLVI	PANDI	BROSS	AMBEL
Pest Scientific Name	Bromus sp.	Ambrosia artem>	Allium vineale	Panicum dichot>	Bromus sp.	Ambrosia artem>
Pest Name	Bromegrass	Common ragweed	Wild garlic	Fall panicum	Bromegrass	Common ragweed
Crop Code						
BBCH Scale						
Crop Scientific Name						
Crop Name						
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	5/30/2013	5/30/2013	5/30/2013	5/30/2013	6/13/2013	6/13/2013
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Days After First/Last Applic.	22 22	22 22	22 22	22 22	36 14	36 14
Trt-Eval Interval	0 DA-B	0 DA-B	0 DA-B	0 DA-B	14 DA-B	14 DA-B
ARM Action Codes	P	P	P	P	P	P
Number of Decimals	0	0	0	0	0	0
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code	1	2	3	4
13 BASIS	17.3 g ai/ha	A	100 a	100 a	41 ab	100 a
Classic	23.8 g ai/ha	A				
Express	7 g ai/ha	A				
Weedar	533 g ai/ha	A				
Abundit Extra	840 g ae/ha	A				
N-Pak AMS	3.9 % v/v	A				
Canopy	210 g ai/ha	B				
Cinch	1070 g ai/ha	B				
Abundit Extra	840 g ae/ha	C				
N-Pak AMS	3.9 % v/v	C				
14 BASIS	17.3 g ai/ha	A	96 a	99 a	58 ab	100 a
Classic	23.8 g ai/ha	A				
Express	7 g ai/ha	A				
Weedar	533 g ai/ha	A				
Abundit Extra	840 g ae/ha	A				
N-Pak AMS	3.9 % v/v	A				
Classic	22 g ai/ha	B				
Sencor 75DF	250 g ai/ha	B				
Valor	71.5 g ai/ha	B				
Abundit Extra	840 g ae/ha	C				
N-Pak AMS	3.9 % v/v	C				
15 Untreated Check			0 b	0 b	0 c	0 b
LSD (P=.05)			9.6	7.4	23.7	4.2
Standard Deviation			6.7	5.2	16.6	3.0
CV			8.69	6.6	35.21	3.74
Bartlett's X2			10.762	15.497	14.995	0.637
P(Bartlett's X2)			0.149	0.017*	0.183	0.425
Skewness			-1.3947*	-1.4768*	-0.3609	-1.4142*
Kurtosis			0.0543	0.2644	-1.1013	0.0214

Purdue University Weed Science

Pest Type	W Weed	W Weed			W Weed	W Weed		
Pest Code	PANDI	XANST			PANDI	IPOSS		
Pest Scientific Name	Panicum dichot>	Xanthium strum>			Panicum dichot>	Ipomoea sp.		
Pest Name	Fall panicum	Heart-leaf coc>			Fall panicum	Morning glory		
Crop Code			GLXMA	GLXMA				
BBCH Scale			BSOY	BSOY				
Crop Scientific Name			Glycine max	Glycine max				
Crop Name			Soybean	Soybean				
Part Rated	PLOT P	PLOT P	PLOT C	PLOT C	PLOT P	PLOT P		
Rating Date	6/13/2013	6/13/2013	6/13/2013	6/27/2013	6/27/2013	6/27/2013		
Rating Type	CONTRO	CONTRO	PHYGEN	PHYGEN	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Days After First/Last Applic.	36 14	36 14	36 14	50 28	50 28	50 28		
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	7	8	9	10	11	12
1 Untreated Check			0 c	0 c	0 a	0 c	0 c	0 c
2 Classic	23.8 g ai/ha A		83 ab	100 a	0 a	0 c	81 a	100 a
Express	7 g ai/ha A							
Weedar	533 g ai/ha A							
Abundit Extra	840 g ae/ha A							
N-Pak AMS	3.9 % v/v A							
Classic	22.4 g ai/ha B							
Harmony SG	7 g ai/ha B							
Valor	71.5 g ai/ha B							
Abundit Extra	840 g ae/ha C							
N-Pak AMS	3.9 % v/v C							
3 Classic	23.8 g ai/ha A		100 a	100 a	0 a	0 c	98 a	96 a
Express	7 g ai/ha A							
Weedar	533 g ai/ha A							
Abundit Extra	840 g ae/ha A							
N-Pak AMS	3.9 % v/v A							
Canopy	210 g ai/ha B							
Cinch	1070 g ai/ha B							
Abundit Extra	840 g ae/ha C							
N-Pak AMS	3.9 % v/v C							
4 Classic	23.8 g ai/ha A		100 a	100 a	0 a	3 c	99 a	99 a
Express	7 g ai/ha A							
Weedar	533 g ai/ha A							
Abundit Extra	840 g ae/ha A							
N-Pak AMS	3.9 % v/v A							
Classic	22 g ai/ha B							
Sencor 75DF	250 g ai/ha B							
Valor	71.5 g ai/ha B							
Abundit Extra	840 g ae/ha C							
N-Pak AMS	3.9 % v/v C							
5 Classic	22.4 g ai/ha A		93 a	96 a	0 a	0 c	88 a	96 a
Harmony SG	7 g ai/ha A							
Valor	71.5 g ai/ha A							
Weedar	533 g ai/ha A							
Abundit Extra	840 g ae/ha A							
N-Pak AMS	3.9 % v/v A							
Abundit Extra	840 g ae/ha C							
N-Pak AMS	3.9 % v/v C							

Purdue University Weed Science

Pest Type	W Weed	W Weed			W Weed	W Weed				
Pest Code	PANDI	XANST			PANDI	IPOSS				
Pest Scientific Name	Panicum dichot>	Xanthium strum>			Panicum dichot>	Ipomoea sp.				
Pest Name	Fall panicum	Heart-leaf coc>			Fall panicum	Morning glory				
Crop Code			GLXMA	GLXMA						
BBCH Scale			BSOY	BSOY						
Crop Scientific Name			Glycine max	Glycine max						
Crop Name			Soybean	Soybean						
Part Rated	PLOT P	PLOT P	PLOT C	PLOT C	PLOT P	PLOT P				
Rating Date	6/13/2013	6/13/2013	6/13/2013	6/27/2013	6/27/2013	6/27/2013				
Rating Type	CONTRO	CONTRO	PHYGEN	PHYGEN	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT				
Days After First/Last Applic.	36 14	36 14	36 14	50 28	50 28	50 28				
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B				
ARM Action Codes	P	P	P	P	P	P				
Number of Decimals	0	0	0	0	0	0				
Trt No.	Treatment Name	Rate	Appl Unit	Code	7	8	9	10	11	12
6	Canopy	210 g ai/ha	A		68 b	92 a	0 a	0 c	0 c	65 ab
	Cinch	1070 g ai/ha	A							
	Weedar	533 g ai/ha	A							
	Abundit Extra	840 g ae/ha	A							
	N-Pak AMS	3.9 % v/v	A							
	Abundit Extra	840 g ae/ha	C							
	N-Pak AMS	3.9 % v/v	C							
7	Classic	22 g ai/ha	A		91 a	99 a	0 a	0 c	78 a	89 a
	Sencor 75DF	250 g ai/ha	A							
	Valor	71.5 g ai/ha	A							
	Weedar	533 g ai/ha	A							
	Abundit Extra	840 g ae/ha	A							
	N-Pak AMS	3.9 % v/v	A							
	Abundit Extra	840 g ae/ha	C							
	N-Pak AMS	3.9 % v/v	C							
8	Classic	22 g ai/ha	A		94 a	100 a	0 a	0 c	88 a	96 a
	Sencor 75DF	250 g ai/ha	A							
	Valor	71.5 g ai/ha	A							
	Weedar	533 g ai/ha	A							
	Abundit Extra	840 g ae/ha	A							
	N-Pak AMS	3.9 % v/v	A							
9	Boundary	1370 g ai/ha	A		78 ab	73 b	0 a	0 c	63 a	72 ab
	Weedar	533 g ai/ha	A							
	Abundit Extra	840 g ae/ha	A							
	N-Pak AMS	3.9 % v/v	A							
	Abundit Extra	840 g ae/ha	C							
	N-Pak AMS	3.9 % v/v	C							
10	Fierce	160 g ai/ha	A		81 ab	100 a	0 a	0 c	88 a	80 a
	Weedar	533 g ai/ha	A							
	Abundit Extra	840 g ae/ha	A							
	N-Pak AMS	3.9 % v/v	A							
	Abundit Extra	840 g ae/ha	C							
	N-Pak AMS	3.9 % v/v	C							
11	Abundit Extra	840 g ae/ha	B		84 ab	97 a	0 a	0 c	38 b	44 b
	N-Pak AMS	3.9 % v/v	B							
	Abundit Extra	840 g ae/ha	C							
	N-Pak AMS	3.9 % v/v	C							
12	BASIS	17.3 g ai/ha	A		98 a	100 a	0 a	4 bc	88 a	98 a
	Classic	23.8 g ai/ha	A							
	Express	7 g ai/ha	A							
	Weedar	533 g ai/ha	A							
	Abundit Extra	840 g ae/ha	A							
	N-Pak AMS	3.9 % v/v	A							
	Classic	22.4 g ai/ha	B							
	Harmony SG	7 g ai/ha	B							
	Valor	71.5 g ai/ha	B							
	Abundit Extra	840 g ae/ha	C							
	N-Pak AMS	3.9 % v/v	C							

Purdue University Weed Science

Pest Type	W Weed	W Weed			W Weed	W Weed		
Pest Code	PANDI	XANST			PANDI	IPOSS		
Pest Scientific Name	Panicum dichot>	Xanthium strum>			Panicum dichot>	Ipomoea sp.		
Pest Name	Fall panicum	Heart-leaf coc>			Fall panicum	Morning glory		
Crop Code			GLXMA	GLXMA				
BBCH Scale			BSOY	BSOY				
Crop Scientific Name			Glycine max	Glycine max				
Crop Name			Soybean	Soybean				
Part Rated	PLOT P	PLOT P	PLOT C	PLOT C	PLOT P	PLOT P		
Rating Date	6/13/2013	6/13/2013	6/13/2013	6/27/2013	6/27/2013	6/27/2013		
Rating Type	CONTRO	CONTRO	PHYGEN	PHYGEN	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Days After First/Last Applic.	36 14	36 14	36 14	50 28	50 28	50 28		
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-B	28 DA-B	28 DA-B	28 DA-B		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	7	8	9	10	11	12
13 BASIS	17.3 g ai/ha	A	100 a	100 a	0 a	6 ab	99 a	99 a
Classic	23.8 g ai/ha	A						
Express	7 g ai/ha	A						
Weedar	533 g ai/ha	A						
Abundit Extra	840 g ae/ha	A						
N-Pak AMS	3.9 % v/v	A						
Canopy	210 g ai/ha	B						
Cinch	1070 g ai/ha	B						
Abundit Extra	840 g ae/ha	C						
N-Pak AMS	3.9 % v/v	C						
14 BASIS	17.3 g ai/ha	A	100 a	100 a	0 a	8 a	98 a	100 a
Classic	23.8 g ai/ha	A						
Express	7 g ai/ha	A						
Weedar	533 g ai/ha	A						
Abundit Extra	840 g ae/ha	A						
N-Pak AMS	3.9 % v/v	A						
Classic	22 g ai/ha	B						
Sencor 75DF	250 g ai/ha	B						
Valor	71.5 g ai/ha	B						
Abundit Extra	840 g ae/ha	C						
N-Pak AMS	3.9 % v/v	C						
15 Untreated Check			0 c	0 c	0 a	0 c	0 c	0 c
LSD (P=.05)			14.5	7.6	0.0	2.6	21.0	26.3
Standard Deviation			10.2	5.3	0.0	1.8	14.7	18.4
CV			13.05	6.32	0.0	134.05	21.99	24.38
Bartlett's X2			7.559	8.822	0.0	1.605	33.917	56.261
P(Bartlett's X2)			0.478	0.066	.	0.658	0.001*	0.001*
Skewness			-1.6038*	-1.9002*	.	2.0917*	-0.9179*	-1.3675*
Kurtosis			1.2469*	1.8868*	.	3.3264*	-0.8609	0.0965

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Trt No.	Treatment Name	Rate	Appl Code	13	14	15	16	17	18
1	Untreated Check			0 c	0 c	0 b	6.8811732 c	19.1 c	1282.1 c
2	Classic	23.8 g ai/ha	A	0 c	100 a	100 a	14.1676172 ab	39.3 ab	2639.7 ab
	Express	7 g ai/ha	A						
	Weedar	533 g ai/ha	A						
	Abundit Extra	840 g ae/ha	A						
	N-Pak AMS	3.9 % v/v	A						
	Classic	22.4 g ai/ha	B						
	Harmony SG	7 g ai/ha	B						
	Valor	71.5 g ai/ha	B						
	Abundit Extra	840 g ae/ha	C						
	N-Pak AMS	3.9 % v/v	C						
3	Classic	23.8 g ai/ha	A	0 c	99 a	100 a	14.9194272 ab	41.3 ab	2779.8 ab
	Express	7 g ai/ha	A						
	Weedar	533 g ai/ha	A						
	Abundit Extra	840 g ae/ha	A						
	N-Pak AMS	3.9 % v/v	A						
	Canopy	210 g ai/ha	B						
	Cinch	1070 g ai/ha	B						
	Abundit Extra	840 g ae/ha	C						
	N-Pak AMS	3.9 % v/v	C						
4	Classic	23.8 g ai/ha	A	0 c	99 a	96 a	17.0137575 a	47.1 a	3170.0 a
	Express	7 g ai/ha	A						
	Weedar	533 g ai/ha	A						
	Abundit Extra	840 g ae/ha	A						
	N-Pak AMS	3.9 % v/v	A						
	Classic	22 g ai/ha	B						
	Sencor 75DF	250 g ai/ha	B						
	Valor	71.5 g ai/ha	B						
	Abundit Extra	840 g ae/ha	C						
	N-Pak AMS	3.9 % v/v	C						
5	Classic	22.4 g ai/ha	A	0 c	100 a	100 a	15.7920663 ab	43.8 ab	2942.4 ab
	Harmony SG	7 g ai/ha	A						
	Valor	71.5 g ai/ha	A						
	Weedar	533 g ai/ha	A						
	Abundit Extra	840 g ae/ha	A						
	N-Pak AMS	3.9 % v/v	A						
	Abundit Extra	840 g ae/ha	C						
	N-Pak AMS	3.9 % v/v	C						

Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed					
Pest Code		PANDI	AMBEL					
Pest Scientific Name		Panicum dichot>	Ambrosia artem>					
Pest Name		Fall panicum	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 C	PLOT P	PLOT P	YIELD C	YIELD C	YIELD C		
Rating Date	8/9/2013	8/9/2013	8/9/2013	10/1/2013	10/1/2013	10/1/2013		
Rating Type	PHYGEN	CONTRO	CONTRO	YIELD	YIELD	YIELD		
Rating Unit	%	%	%	lb/plot	bu/ac	kg/ha		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Days After First/Last Applic.	93 35	93 35	93 35	146 88	146 88	146 88		
Trt-Eval Interval	35 DA-C	35 DA-C	35 DA-C					
ARM Action Codes	P	P	P		TY1	TY2		
Number of Decimals	0	0	0		1	1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	13	14	15	16	17	18
6 Canopy	210 g ai/ha A		0 c	100 a	99 a	17.4567907 a	48.4 a	3252.5 a
Cinch	1070 g ai/ha A							
Weedar	533 g ai/ha A							
Abundit Extra	840 g ae/ha A							
N-Pak AMS	3.9 % v/v A							
Abundit Extra	840 g ae/ha C							
N-Pak AMS	3.9 % v/v C							
7 Classic	22 g ai/ha A		0 c	100 a	100 a	15.6025293 ab	43.2 ab	2907.0 ab
Sencor 75DF	250 g ai/ha A							
Valor	71.5 g ai/ha A							
Weedar	533 g ai/ha A							
Abundit Extra	840 g ae/ha A							
N-Pak AMS	3.9 % v/v A							
Abundit Extra	840 g ae/ha C							
N-Pak AMS	3.9 % v/v C							
8 Classic	22 g ai/ha A		0 c	59 b	91 a	13.9125379 ab	38.5 ab	2592.2 ab
Sencor 75DF	250 g ai/ha A							
Valor	71.5 g ai/ha A							
Weedar	533 g ai/ha A							
Abundit Extra	840 g ae/ha A							
N-Pak AMS	3.9 % v/v A							
9 Boundary	1370 g ai/ha A		0 c	100 a	100 a	17.1867600 a	47.6 a	3202.2 a
Weedar	533 g ai/ha A							
Abundit Extra	840 g ae/ha A							
N-Pak AMS	3.9 % v/v A							
Abundit Extra	840 g ae/ha C							
N-Pak AMS	3.9 % v/v C							
10 Fierce	160 g ai/ha A		0 c	100 a	100 a	17.2285612 a	47.7 a	3210.0 a
Weedar	533 g ai/ha A							
Abundit Extra	840 g ae/ha A							
N-Pak AMS	3.9 % v/v A							
Abundit Extra	840 g ae/ha C							
N-Pak AMS	3.9 % v/v C							
11 Abundit Extra	840 g ae/ha B		0 c	100 a	99 a	15.9397426 ab	44.2 ab	2969.9 ab
N-Pak AMS	3.9 % v/v B							
Abundit Extra	840 g ae/ha C							
N-Pak AMS	3.9 % v/v C							
12 BASIS	17.3 g ai/ha A		10 bc	96 a	94 a	14.0467907 ab	38.9 ab	2617.2 ab
Classic	23.8 g ai/ha A							
Express	7 g ai/ha A							
Weedar	533 g ai/ha A							
Abundit Extra	840 g ae/ha A							
N-Pak AMS	3.9 % v/v A							
Classic	22.4 g ai/ha B							
Harmony SG	7 g ai/ha B							
Valor	71.5 g ai/ha B							
Abundit Extra	840 g ae/ha C							
N-Pak AMS	3.9 % v/v C							

Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed					
Pest Code		PANDI	AMBEL					
Pest Scientific Name		Panicum dichot>	Ambrosia artem>					
Pest Name		Fall panicum	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 C	PLOT P	PLOT P	YIELD C	YIELD C	YIELD C		
Rating Date	8/9/2013	8/9/2013	8/9/2013	10/1/2013	10/1/2013	10/1/2013		
Rating Type	PHYGEN	CONTRO	CONTRO	YIELD	YIELD	YIELD		
Rating Unit	%	%	%	lb/plot	bu/ac	kg/ha		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Days After First/Last Applic.	93 35	93 35	93 35	146 88	146 88	146 88		
Trt-Eval Interval	35 DA-C	35 DA-C	35 DA-C					
ARM Action Codes	P	P	P		TY1	TY2		
Number of Decimals	0	0	0		1	1		
Trt Treatment	Rate	Appl						
No. Name	Rate Unit	Code	13	14	15	16	17	18
13 BASIS	17.3 g ai/ha	A	24 a	92 a	99 a	12.2451832 b	33.9 b	2281.5 b
Classic	23.8 g ai/ha	A						
Express	7 g ai/ha	A						
Weedar	533 g ai/ha	A						
Abundit Extra	840 g ae/ha	A						
N-Pak AMS	3.9 % v/v	A						
Canopy	210 g ai/ha	B						
Cinch	1070 g ai/ha	B						
Abundit Extra	840 g ae/ha	C						
N-Pak AMS	3.9 % v/v	C						
14 BASIS	17.3 g ai/ha	A	17 ab	88 a	100 a	13.5204099 ab	37.5 ab	2519.1 ab
Classic	23.8 g ai/ha	A						
Express	7 g ai/ha	A						
Weedar	533 g ai/ha	A						
Abundit Extra	840 g ae/ha	A						
N-Pak AMS	3.9 % v/v	A						
Classic	22 g ai/ha	B						
Sencor 75DF	250 g ai/ha	B						
Valor	71.5 g ai/ha	B						
Abundit Extra	840 g ae/ha	C						
N-Pak AMS	3.9 % v/v	C						
15 Untreated Check			0 c	0 c	0 b	4.7297105 c	13.1 c	881.2 c
LSD (P=.05)			8.0	13.7	6.8	2.82315814	7.82	526.01
Standard Deviation			5.6	9.6	4.7	1.97553128	5.47	368.08
CV			167.25	11.7	5.57	14.07	14.07	14.07
Bartlett's X2			2.225	38.986	27.507	11.7	11.7	11.7
P(Bartlett's X2)			0.329	0.001*	0.001*	0.63	0.63	0.63
Skewness			2.6198*	-1.8087*	-2.1337*	-1.1704*	-1.1704*	-1.1704*
Kurtosis			5.5074*	1.5903*	2.7575*	0.6869	0.6869	0.6869

Purdue University Weed Science

DPX R5W13 Applied as a burndown before soybean planting in the midwest

Trial ID: 13S-SEP-CTS-08 Location: SEPAC Trial Year: 2013
 Protocol ID: 13S-SEP-CTS-08 Investigator: Dr. Bill Johnson
 Project ID: US 117/13/01 Study Director: Joe Ikley
 Sponsor Contact: DuPont - Kelly Barnett

Randomized Complete Block (RCB) AOV For W Weed BROSS Bromus sp. Bromegrass PLOT P 5/30/2013 CONTRO % 1 PLOT 22 22 0 DA-B P 0 (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	57	92261.203116			
Replicate	3	104.879295	34.959765	0.773	0.5157
Treatment	14	90348.246898	6453.446207	142.769	0.0001
Error	40	1808.076923	45.201923		

Randomized Complete Block (RCB) AOV For W Weed AMBEL Ambrosia artemisiifolia Common ragweed PLOT P 5/30/2013 CONTRO % 1 PLOT 22 22 0 DA-B P 0 (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	93398.333333			
Replicate	3	208.333333	69.444444	2.612	0.0638
Treatment	14	92073.333333	6576.666667	247.361	0.0001
Error	42	1116.666667	26.587302		

Randomized Complete Block (RCB) AOV For W Weed ALLVI Allium vineale Wild garlic PLOT P 5/30/2013 CONTRO % 1 PLOT 22 22 0 DA-B P 0 (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	53968.333333			
Replicate	3	1168.333333	389.444444	1.412	0.2526
Treatment	14	41218.333333	2944.166667	10.677	0.0001
Error	42	11581.666667	275.753968		

Randomized Complete Block (RCB) AOV For W Weed PANDI Panicum dichotomiflorum Fall panicum PLOT P 5/30/2013 CONTRO % 1 PLOT 22 22 0 DA-B P 0 (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	55	94883.080479			
Replicate	3	41.766823	13.922274	1.579	0.2102
Treatment	14	94506.363605	6750.454543	765.837	0.0001
Error	38	334.950052	8.814475		

Randomized Complete Block (RCB) AOV For W Weed BROSS Bromus sp. Bromegrass PLOT P 6/13/2013 CONTRO % 1 PLOT 36 14 14 DA-B P 0 (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	58	69115.000000			
Replicate	3	5.000000	1.666667	2.103	0.1147
Treatment	14	69077.500000	4934.107143	6224.567	0.0001
Error	41	32.500000	0.792683		

Randomized Complete Block (RCB) AOV For W Weed AMBEL Ambrosia artemisiifolia Common ragweed PLOT P 6/13/2013 CONTRO % 1 PLOT 36 14 14 DA-B P 0 (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	58	68915.733891			
Replicate	3	102.546060	34.182020	0.355	0.7856
Treatment	14	64867.721561	4633.408683	48.149	0.0001
Error	41	3945.466270	96.230885		

Randomized Complete Block (RCB) AOV For W Weed PANDI Panicum dichotomiflorum Fall panicum PLOT P 6/13/2013 CONTRO % 1 PLOT 36 14 14 DA-B P 0 (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	58	66238.789446			
Replicate	3	824.093679	274.697893	2.662	0.0606
Treatment	14	61184.229497	4370.302107	42.355	0.0001
Error	41	4230.466270	103.182104		

Randomized Complete Block (RCB) AOV For W Weed XANST Xanthium strumarium Heart-leaf cocklebur PLOT P 6/13/2013 CONTRO % 1 PLOT 36 14 14 DA-B P 0 (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	55	68707.592593			
Replicate	3	133.518519	44.506173	1.592	0.2073
Treatment	14	67511.759259	4822.268519	172.497	0.0001
Error	38	1062.314815	27.955653		

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Randomized Complete Block (RCB) AOV For GLXMA BSOY Glycine max Soybean PLOT C 6/13/2013 PHYGEN % 1 PLOT 36 14 14 DA-B P 0 (Data Column 9)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	0.000000000000			
Replicate	3	0.000000000000	0.000000000000	0.000	1.0000
Treatment	14	0.000000000000	0.000000000000	0.000	1.0000
Error	42	0.000000000000	0.000000000000		

Randomized Complete Block (RCB) AOV For GLXMA BSOY Glycine max Soybean PLOT C 6/27/2013 PHYGEN % 1 PLOT 50 28 28 DA-B P 0 (Data Column 10)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	493.333333			
Replicate	3	3.333333	1.111111	0.348	0.7909
Treatment	14	355.833333	25.416667	7.957	0.0001
Error	42	134.166667	3.194444		

Randomized Complete Block (RCB) AOV For W Weed PANDI Panicum dichotomiflorum Fall panicum PLOT P 6/27/2013 CONTRO % 1 PLOT 50 28 28 DA-B P 0 (Data Column 11)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	54	90276.898148			
Replicate	3	1255.046296	418.348765	1.936	0.1407
Treatment	14	81024.814815	5787.486772	26.777	0.0001
Error	37	7997.037037	216.136136		

Randomized Complete Block (RCB) AOV For W Weed IPOSS Ipomoea sp. Morning glory PLOT P 6/27/2013 CONTRO % 1 PLOT 50 28 28 DA-B P 0 (Data Column 12)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	54	80119.398148			
Replicate	3	432.361111	144.120370	0.425	0.7361
Treatment	14	67146.481481	4796.177249	14.151	0.0001
Error	37	12540.555556	338.933934		

Randomized Complete Block (RCB) AOV For W Weed GLXMA BSOY Glycine max Soybean PLOT C 8/9/2013 PHYGEN % 1 PLOT 93 35 35 DA-C P 0 (Data Column 13)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	4507.650000			
Replicate	3	89.250000	29.750000	0.948	0.4263
Treatment	14	3099.900000	221.421429	7.053	0.0001
Error	42	1318.500000	31.392857		

Randomized Complete Block (RCB) AOV For W Weed PANDI Panicum dichotomiflorum Fall panicum PLOT P 8/9/2013 CONTRO % 1 PLOT 93 35 35 DA-C P 0 (Data Column 14)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	72614.183333			
Replicate	3	183.516667	61.172222	0.663	0.5796
Treatment	14	68554.433333	4896.745238	53.058	0.0001
Error	42	3876.233333	92.291270		

Randomized Complete Block (RCB) AOV For W Weed AMBEL Ambrosia artemisiifolia Common ragweed PLOT P 8/9/2013 CONTRO % 1 PLOT 93 35 35 DA-C P 0 (Data Column 15)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	59	68319.650000			
Replicate	3	68.050000	22.683333	1.008	0.3988
Treatment	14	67306.400000	4807.600000	213.626	0.0001
Error	42	945.200000	22.504762		

Randomized Complete Block (RCB) AOV For GLXMA BSOY Glycine max Soybean YIELD C 10/1/2013 YIELD lb/plot 1 PLOT 146 88 (Data Column 16)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	58	976.604422			
Replicate	3	48.855131	16.285044	4.173	0.0114
Treatment	14	767.737646	54.838403	14.051	0.0001
Error	41	160.011645	3.902723		

Randomized Complete Block (RCB) AOV For GLXMA BSOY Glycine max Soybean YIELD C 10/1/2013 YIELD bu/ac 1 PLOT 146 88 TY1 1 (Data Column 17)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	58	7496.001516			
Replicate	3	374.991274	124.997091	4.173	0.0114
Treatment	14	5892.828691	420.916335	14.051	0.0001
Error	41	1228.181551	29.955648		

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Randomized Complete Block (RCB) AOV For GLXMA BSOY Glycine max Soybean YIELD C 10/1/2013 YIELD kg/ha 1 PLOT 146 88 TY2 1 (Data Column 18)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	58	33902634.053061			
Replicate	3	1695996.446403	565332.148801	4.173	0.0114
Treatment	14	26651864.225052	1903704.587504	14.051	0.0001
Error	41	5554773.381605	135482.277600		

Pest Type

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

Pest Code

BROSS, Bromus sp., = US

AMBEL, Ambrosia artemisiifolia, = US

ALLVI, Allium vineale, = US

PANDI, Panicum dichotomiflorum, = US

XANST, Xanthium strumarium, = US

IPOSS, Ipomoea sp., = 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*[16]

TY2 = 186.3191*[16]