

## Purdue University

## IGNITE BURNDOWN IN RR SOYBEAN

Trial ID: 09S-SEP-NTS-08 Protocol ID: 09S-SEP-NTS-08  
 Location: SEPAC Study Director: MELISSA KRUGER/PAUL MARQUARDT  
 Project ID: Investigator: Dr. Bill Johnson  
 Sponsor Contact: DAVID LAMORE

## General Trial Information

**Study Director:** MELISSA KRUGER/PAUL MARQUARDT **Title:** Lab Tech VIII/Research Assoc.  
**Investigator:** Dr. Bill Johnson **Title:** Associate Professor

**Discipline:** H herbicide  
**Trial Status:** F one-year/final  
**Initiation Date:** 5/5/09 **Planned Completion Date:** 7/28/09

## Trial Location

**City:** Butleville  
**State/Prov.:** IN  
**Postal Code:** 47223-0216  
**Country:** USA United States

## Objectives:

The objective of the trial is to compare the utility of Ignite used alone and in a tank mix as a burndown for winter and annual weed control.

## Personnel

**Study Director:** MELISSA KRUGER/PAUL MARQUARDT **Title:** Lab Tech VIII/Research Assoc.  
**Affiliation:** Purdue University  
**Address:** 915 W. State St.  
**Location:** West Lafayette, IN USA  
**Postal Code:** 47907 **E-mail:** mmkruger@purdue.edu/pmarquar@purdue.edu  
**Phone No.:** 765-494-4621  
**Investigator:** Dr. Bill Johnson **Title:** Associate Professor  
**Affiliation:** Purdue University  
**Address:** 915 W. State Street  
**Location:** West Lafayette, IN USA  
**Postal Code:** 47907 **E-mail:** wj@purdue.edu  
**Phone No.:** 765-494-4656

## Cooperator/Landowner

**Cooperator:** Southeastern-Purdue Ag Center **Role:** Cooperator  
**Organization:** Purdue University  
**Address 1:** 4425 E Co. Rd. 350 N  
**Phone No.:** 1-812-458-6977  
**City:** Butleville **Fax No.:** 1-812-458-6979  
**State/Prov:** IN  
**Postal Code:** 477223-021 **E-mail:** biehled@purdue.edu  
**Country:** USA United States

## Crop Description

**Crop 1:** GLXMA Glycine max Soybean  
**Variety:** AG3402 **Description:** Roundup Ready  
**BBCH Scale:** BSOY **Planting Date:** 6/26/09  
**Planting Method:** DIRDRI direct drilled **Rate, Unit:** 150000 S/A  
**Depth, Unit:** 1 IN  
**Row Spacing, Unit:** 30 IN  
**Seed Bed:** NOTILL **Soil Temperature, Unit:** 78 F  
**Soil Moisture:** MOIST slightly wet **Emergence Date:** 5/31/09  
**Harvest Date:** 11/6/09 **Harvest Equipment:** Gleaner F3  
**Harvested Width, Unit:** 10 FT **Harvested Length, Unit:** 25 FT  
**% Standard Moisture:** 13.0 **Moisture Meter:** CART 3 inch blade  
**Weighing Equipment:** Carter Manufacturing

## Pest Description

**Pest 1 Type:** W **Code:** ERICA *Conyza canadensis*  
**Common Name:** Canada horseweed

**Pest 2 Type:** W **Code:** SENGL *Senecio glabellus*  
**Common Name:** Cressleaf groundsel

**Pest 3 Type:** W **Code:** BROTE Bromus tectorum  
**Common Name:** Downy brome

**Pest 4 Type:** W **Code:** TAROF Taraxacum officinale  
**Common Name:** Common dandelion

**Pest 5 Type:** W **Code:** CERVU Cerastium fontanum vulgare  
**Common Name:** Mouse-ear chickweed

**Pest 6 Type:** W **Code:** ERIST Erigeron strigosus  
**Common Name:** Daisy fleabane

**Pest 7 Type:** W **Code:** RANAB Ranunculus abortivus  
**Common Name:** Smallflower buttercup

**Pest 8 Type:** W **Code:** STEME Stellaria media  
**Common Name:** Common chickweed

**Pest 9 Type:** W **Code:** LAMPU Lamium purpureum  
**Common Name:** Purple deadnettel

**Pest10 Type:** W **Code:** ALLVI Allium vineale  
**Common Name:** Wild garlic

**Pest11 Type:** W **Code:** ALOCA Alopecurus carolinianus  
**Common Name:** Carolina foxtail

**Pest12 Type:** W **Code:** IPOSS Ipomoea sp.  
**Common Name:** Morning glory

**Pest13 Type:** W **Code:** XANST Xanthium strumarium  
**Common Name:** Common cocklebur

**Pest14 Type:** W **Code:** AMBEL Ambrosia artemisiifolia  
**Common Name:** Common ragweed

**Pest15 Type:** W **Code:** PANDI Panicum dichotomiflorum  
**Common Name:** Fall panicum

**Pest16 Type:** W **Code:** GERCA Geranium carolinianum  
**Common Name:** Carolina geranium

**Pest17 Type:** W **Code:** ECHCG Echinochloa crus-galli  
**Common Name:** Common barnyardgrass

**Site and Design**

**Plot Width, Unit:** 10 FT **Site Type:** FIELD field  
**Plot Length, Unit:** 30 FT **Experimental Unit:** 1 PLOT plot  
**Plot Area, Unit:** 300 FT2 **Tillage Type:** NOTILL no-till  
**Replications:** 4 **Study Design:** RACOBL Randomized Complete Block (RCB)  
**Untreated Arrangement:** INCLUDED single control randomized in each block

**Soil Description**

**Description Name:** SEPAC Field U41-6  
**% OM:** 1.3 **Texture:** SIL silt loam  
**pH:** 6.5 **Soil Name:** Avonburg  
**CEC:** 5.7

**Analyzed By:**  
 A&L Great Lakes Laboratories, Inc. Report #: F07320-0472

**Additional Measured Elements**

Element	Quantity	Unit
P	13	PPM
K	68	PPM
Mg	155	PPM

Ca	600	PPM
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**Moisture and Weather Conditions**

**Closest Weather Station:** On research station **Distance, Unit:** 0.5 MI

**Application Description**

	A	B	C
<b>Application Date:</b>	5/5/09	6/17/09	6/30/09
<b>Time of Day:</b>	9:35 AM	10:40 AM	9:00 AM
<b>Application Method:</b>	SPRAY	SPRAY	SPRAY
<b>Application Timing:</b>	PREPLA	EAPOCR	MIPOCR
<b>Application Placement:</b>	BROFOL	BROFOL	BROFOL
<b>Applied By:</b>	PM MK	RH MK	GK MK
<b>Air Temperature, Unit:</b>	64 F	74 F	62 F
<b>% Relative Humidity:</b>	67	85	75
<b>Wind Velocity, Unit:</b>	3 MPH	4 MPH	3 MPH
<b>Wind Direction:</b>	E	S	NNW
<b>Dew Presence (Y/N):</b>	N no	N no	N no
<b>Soil Temperature, Unit:</b>	60 F	74 F	75 F
<b>Soil Moisture:</b>	MOIST	MOIST	MOIST
<b>% Cloud Cover:</b>	75	90	0

**Crop Stage At Each Application**

	A	B	C
<b>Crop 1 Code, BBCH Scale:</b>	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
<b>Stage Scale Used:</b>		BBCH	BBCH
<b>Stage Majority, Percent:</b>		V1	V6
<b>Stage Minimum, Percent:</b>			V5
<b>Stage Maximum, Percent:</b>			V6
<b>Height, Unit:</b>		6 IN	12 IN
<b>Height Minimum, Maximum:</b>		4 8	10 16

**Pest Stage At Each Application**

	A	B	C
<b>Pest 1 Code, Type, Scale:</b>	ERICA W	ERICA W	ERICA W
<b>Stage Majority, Percent:</b>	COTY	COTY	BOLT
<b>Stage Minimum, Percent:</b>	COTY	COTY	
<b>Stage Maximum, Percent:</b>	BOLT	BOLT	
<b>Height, Unit:</b>	2 IN	10 IN	16 IN
<b>Height Minimum, Maximum:</b>	0.5 4	1 18	1 18
<b>Density, Unit:</b>	6 YD2	25 YD2	8 YD2
<b>Pest 2 Code, Type, Scale:</b>	SENGL W	SENGL W	SENGL W
<b>Stage Majority, Percent:</b>	FLOWER	N/A	N/A
<b>Height, Unit:</b>	21 IN		
<b>Height Minimum, Maximum:</b>	6 36		
<b>Density, Unit:</b>	6 YD2		
<b>Pest 3 Code, Type, Scale:</b>	BROTE W	BROTE W	BROTE W
<b>Stage Majority, Percent:</b>	FLOWER	N/A	N/A
<b>Height, Unit:</b>	9 IN		
<b>Height Minimum, Maximum:</b>	4 14		
<b>Density, Unit:</b>	53 YD2		

<b>Pest 4 Code, Type, Scale:</b>	TAROF W	TAROF W	TAROF W
<b>Stage Majority, Percent:</b>	FLOWER	VEG	VEG
<b>Stage Minimum, Percent:</b>		COTY	
<b>Stage Maximum, Percent:</b>		SEED	
<b>Height, Unit:</b>	15 IN	10 IN	10 IN
<b>Height Minimum, Maximum:</b>	6 24	5 18	3 10
<b>Density, Unit:</b>	12.5 YD2	5 YD2	3 YD2
<b>Pest 5 Code, Type, Scale:</b>	CERVU W	CERVU W	CERVU W
<b>Stage Majority, Percent:</b>	FLOWER	N/A	N/A
<b>Height, Unit:</b>	5.25 IN		
<b>Height Minimum, Maximum:</b>	0.5 10		
<b>Density, Unit:</b>	6 YD2		
<b>Pest 6 Code, Type, Scale:</b>	ERIST W	ERIST W	ERIST W
<b>Stage Majority, Percent:</b>	FLOWER	N/A	N/A
<b>Height, Unit:</b>	8 IN		
<b>Height Minimum, Maximum:</b>	6 10		
<b>Density, Unit:</b>	1.5 YD2		
<b>Pest 7 Code, Type, Scale:</b>	RANAB W	RANAB W	RANAB W
<b>Stage Majority, Percent:</b>	FLOWER	N/A	N/A
<b>Height, Unit:</b>	6.25 IN		
<b>Height Minimum, Maximum:</b>	0.5 12		
<b>Density, Unit:</b>	12.5 YD2		
<b>Pest 8 Code, Type, Scale:</b>	STEME W	STEME W	STEME W
<b>Stage Majority, Percent:</b>	FLOWER	N/A	N/A
<b>Height, Unit:</b>	4 IN		
<b>Height Minimum, Maximum:</b>	0.5 6		
<b>Density, Unit:</b>	3 YD2		
<b>Pest 9 Code, Type, Scale:</b>	LAMPU W	LAMPU W	LAMPU W
<b>Stage Majority, Percent:</b>	FLOWER	N/A	N/A
<b>Height, Unit:</b>	4 IN		
<b>Height Minimum, Maximum:</b>	2 6		
<b>Density, Unit:</b>	3 YD2		
<b>Pest10 Code, Type, Scale:</b>	ALLVI W	ALLVI W	ALLVI W
<b>Stage Majority, Percent:</b>	VEG	N/A	N/A
<b>Height, Unit:</b>	20 IN		
<b>Height Minimum, Maximum:</b>	6 28		
<b>Density, Unit:</b>	50 YD2		
<b>Pest11 Code, Type, Scale:</b>	ALOCA W	ALOCA W	ALOCA W
<b>Stage Majority, Percent:</b>	N/A	N/A	N/A
<b>Pest12 Code, Type, Scale:</b>	IPOSS W	IPOSS W	IPOSS W
<b>Stage Majority, Percent:</b>	N/A	VINE	VINE
<b>Height, Unit:</b>		5 IN	6 IN
<b>Height Minimum, Maximum:</b>		1 10	1 10
<b>Density, Unit:</b>		9 YD2	13 YD2
<b>Pest13 Code, Type, Scale:</b>	XANST W	XANST W	XANST W
<b>Stage Majority, Percent:</b>	N/A	VEG	VEG
<b>Height, Unit:</b>		4 IN	6 IN
<b>Height Minimum, Maximum:</b>		3 6	2 8
<b>Density, Unit:</b>		6 YD2	3 YD2

<b>Pest14 Code, Type, Scale:</b>	AMBEL W	AMBEL W	AMBEL W
<b>Stage Majority, Percent:</b>	N/A	VEG	VEG
<b>Height, Unit:</b>		5 IN	10 IN
<b>Height Minimum, Maximum:</b>		3 7	2 18
<b>Density, Unit:</b>		3 YD2	3 YD2
<b>Pest15 Code, Type, Scale:</b>	PANDI W	PANDI W	PANDI W
<b>Stage Majority, Percent:</b>	N/A	VEG	VEG
<b>Height, Unit:</b>		6 IN	12 IN
<b>Height Minimum, Maximum:</b>		2 10	8 16
<b>Density, Unit:</b>		26 YD2	5 YD2
<b>Pest16 Code, Type, Scale:</b>	GERCA W	GERCA W	GERCA W
<b>Stage Majority, Percent:</b>	N/A	SEED	N/A
<b>Height, Unit:</b>		10 IN	
<b>Height Minimum, Maximum:</b>		8 12	
<b>Density, Unit:</b>		3 5	
<b>Pest17 Code, Type, Scale:</b>	ECHCG W	ECHCG W	ECHCG W
<b>Stage Majority, Percent:</b>	N/A	N/A	VEG
<b>Height, Unit:</b>			10 IN
<b>Height Minimum, Maximum:</b>			2 12
<b>Density, Unit:</b>			13 YD2

#### Application Equipment

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

#### Trt No Treatment Application Comment

12 No AMS in bottle - label left off tag so missed when mixing

IGNITE BURNDOWN IN RR SOYBEAN

Trial ID: 09S-SEP-NTS-08 Protocol ID: 09S-SEP-NTS-08  
 Location: SEPAC Study Director: MELISSA KRUGER/PAUL MARQUARDT  
 Project ID: Investigator: Dr. Bill Johnson  
 Sponsor Contact: DAVID LAMORE

Pest Type	W Weed				
Pest Code	ERICA	ERICA	ERICA	ERICA	SENGL
Pest Scientific Name	Conyza canadensis	Conyza canadensis	Conyza canadensis	Conyza canadensis	Senecio glabellus
Pest Name	Canada horseweed	Horseweed	Horseweed	Horseweed	Cressleaf groundsel
Crop Code	N/A	GLXMA	GLXMA	GLXMA	N/A
Crop Scientific Name		Glycine max	Glycine max	Glycine max	
Crop Name		Soybean	Soybean	Soybean	
Part Rated	PLOT P				
Rating Date	5/18/09	6/5/09	6/17/09	7/28/09	5/18/09
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Sample Size, Unit					
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	N/A	V1	V1	R2	N/A
Crop Stage Minimum/Maximum		2-4"	4-8"	24-36"	
Pest Stage Majority	BOLT	COTY-BOL	COTY-BOL	BOLT	FLOWER
Pest Stage Minimum/Maximum	0.5-5"	1-12"	1-18"	4-36"	4-24"
Pest Density, Unit	3 YD2	11 YD2	25 YD2	3 YD2	3 YD2
Footnote Number					
Assessed By	MK&JM	GK CB	GK CB	MK JD	MK&JM
Rating Timing					
Days After First/Last Applic.	13 13	31 31	43 43	84 28	13 13
Trt-Eval Interval	13 DA-A				13 DA-A
Plant-Eval Interval	-39 DP-1	-21 DP-1	-9 DP-1	32 DP-1	-39 DP-1
Days After Emergence	-13 DE	5 DE-1	17 DE-	58 DE-	-13 DE
Number of Decimals					
Trt No.	1	7	13	19	2
Treatment Name	Untreated				
Rate	0.0 b				
Rate Unit					
Appl Code					
1 Ignite	99.5 a	95.3 a	78.8 a	99.0 a	100.0 a
Ammonium Sulfate	8.5 lb/100 gal A				
Roundup PowerMAX	0.77 lb ae/a B				
Ammonium Sulfate	8.5 lb/100 gal B				
Roundup PowerMAX	0.77 lb ae/a C				
Ammonium Sulfate	8.5 lb/100 gal C				
3 Ignite	99.8 a	96.0 a	88.5 a	99.0 a	99.8 a
Ammonium Sulfate	8.5 lb/100 gal A				
Roundup PowerMAX	0.77 lb ae/a B				
Ammonium Sulfate	8.5 lb/100 gal B				
Roundup PowerMAX	0.77 lb ae/a C				
Ammonium Sulfate	8.5 lb/100 gal C				
4 Ignite	99.8 a	97.0 a	95.3 a	99.0 a	100.0 a
2,4-D Ester	0.5 lb ae/a A				
Ammonium Sulfate	8.5 lb/100 gal A				
Roundup PowerMAX	0.77 lb ae/a B				
Ammonium Sulfate	8.5 lb/100 gal B				
Roundup PowerMAX	0.77 lb ae/a C				
Ammonium Sulfate	8.5 lb/100 gal C				

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Pest Type	W Weed				
Pest Code	ERICA	ERICA	ERICA	ERICA	SENGL
Pest Scientific Name	Conyza canadensis	Conyza canadensis	Conyza canadensis	Conyza canadensis	Senecio glabellus
Pest Name	Canada horseweed	Horseweed	Horseweed	Horseweed	Cressleaf groundsel
Crop Code	N/A	GLXMA	GLXMA	GLXMA	N/A
Crop Scientific Name		Glycine max	Glycine max	Glycine max	
Crop Name		Soybean	Soybean	Soybean	
Part Rated	PLOT P				
Rating Date	5/18/09	6/5/09	6/17/09	7/28/09	5/18/09
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Sample Size, Unit					
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	N/A	V1	V1	R2	N/A
Crop Stage Minimum/Maximum		2-4"	4-8"	24-36"	
Pest Stage Majority	BOLT	COTY-BOL	COTY-BOL	BOLT	FLOWER
Pest Stage Minimum/Maximum	0.5-5"	1-12"	1-18"	4-36"	4-24"
Pest Density, Unit	3 YD2	11 YD2	25 YD2	3 YD2	3 YD2
Footnote Number					
Assessed By	MK&JM	GK CB	GK CB	MK JD	MK&JM
Rating Timing					
Days After First/Last Applic.	13 13	31 31	43 43	84 28	13 13
Trt-Eval Interval	13 DA-A				13 DA-A
Plant-Eval Interval	-39 DP-1	-21 DP-1	-9 DP-1	32 DP-1	-39 DP-1
Days After Emergence	-13 DE	5 DE-1	17 DE-	58 DE-	-13 DE
Number of Decimals					
Trt No.	1	7	13	19	2
Treatment Name					
Rate					
Unit					
Appl Code					
5 Ignite	0.53 lb ai/a				
Valor XLT					
Valor SX	0.056 lb ai/a				
Classic	0.0194 lb ai/a				
Ammonium Sulfate	8.5 lb/100 gal				
Roundup PowerMAX	0.77 lb ae/a				
Ammonium Sulfate	8.5 lb/100 gal				
Roundup PowerMAX	0.77 lb ae/a				
Ammonium Sulfate	8.5 lb/100 gal				
6 Ignite	0.53 lb ai/a				
Sharpen	0.0223 lb ai/a				
COC	1 % v/v				
Ammonium Sulfate	8.5 lb/100 gal				
Roundup PowerMAX	0.77 lb ae/a				
Ammonium Sulfate	8.5 lb/100 gal				
Roundup PowerMAX	0.77 lb ae/a				
Ammonium Sulfate	8.5 lb/100 gal				
7 Ignite	0.4 lb ai/a				
Roundup PowerMAX	0.77 lb ae/a				
Ammonium Sulfate	8.5 lb/100 gal				
Roundup PowerMAX	0.77 lb ae/a				
Ammonium Sulfate	8.5 lb/100 gal				
Roundup PowerMAX	0.77 lb ae/a				
Ammonium Sulfate	8.5 lb/100 gal				
8 Roundup PowerMAX	0.77 lb ae/a				
Ammonium Sulfate	8.5 lb/100 gal				
Roundup PowerMAX	0.77 lb ae/a				
Ammonium Sulfate	8.5 lb/100 gal				
Roundup PowerMAX	0.77 lb ae/a				
Ammonium Sulfate	8.5 lb/100 gal				

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Pest Type	W Weed				
Pest Code	ERICA	ERICA	ERICA	ERICA	SENGL
Pest Scientific Name	Conyza canadensis	Conyza canadensis	Conyza canadensis	Conyza canadensis	Senecio glabellus
Pest Name	Canada horseweed	Horseweed	Horseweed	Horseweed	Cressleaf groundsel
Crop Code	N/A	GLXMA	GLXMA	GLXMA	N/A
Crop Scientific Name		Glycine max	Glycine max	Glycine max	
Crop Name		Soybean	Soybean	Soybean	
Part Rated	PLOT P				
Rating Date	5/18/09	6/5/09	6/17/09	7/28/09	5/18/09
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Sample Size, Unit					
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	N/A	V1	V1	R2	N/A
Crop Stage Minimum/Maximum		2-4"	4-8"	24-36"	
Pest Stage Majority	BOLT	COTY-BOL	COTY-BOL	BOLT	FLOWER
Pest Stage Minimum/Maximum	0.5-5"	1-12"	1-18"	4-36"	4-24"
Pest Density, Unit	3 YD2	11 YD2	25 YD2	3 YD2	3 YD2
Footnote Number					
Assessed By	MK&JM	GK CB	GK CB	MK JD	MK&JM
Rating Timing					
Days After First/Last Applic.	13 13	31 31	43 43	84 28	13 13
Trt-Eval Interval	13 DA-A				13 DA-A
Plant-Eval Interval	-39 DP-1	-21 DP-1	-9 DP-1	32 DP-1	-39 DP-1
Days After Emergence	-13 DE	5 DE-1	17 DE-	58 DE-	-13 DE
Number of Decimals					
Trt No.	1	7	13	19	2
Treatment Name					
Rate					
Unit					
Appl Code					
9 Sharpen	100.0 a	98.3 a	96.5 a	99.8 a	99.8 a
Roundup PowerMAX	0.0223 lb ai/a A				
Ammonium Sulfate	0.77 lb ae/a A				
Roundup PowerMAX	8.5 lb/100 gal A				
Ammonium Sulfate	0.77 lb ae/a B				
Roundup PowerMAX	8.5 lb/100 gal B				
Ammonium Sulfate	0.77 lb ae/a C				
Roundup PowerMAX	8.5 lb/100 gal C				
Ammonium Sulfate					
10 Gramoxone Inteon	99.5 a	96.3 a	92.5 a	99.5 a	100.0 a
NIS	0.625 lb ai/a A				
Roundup PowerMAX	0.25 % v/v A				
Ammonium Sulfate	0.77 lb ae/a B				
Roundup PowerMAX	8.5 lb/100 gal B				
Ammonium Sulfate	0.77 lb ae/a C				
Roundup PowerMAX	8.5 lb/100 gal C				
Ammonium Sulfate					
11 Gramoxone Inteon	100.0 a	96.5 a	91.3 a	99.0 a	100.0 a
2,4-D Ester	0.625 lb ai/a A				
Roundup PowerMAX	0.5 lb ae/a A				
Ammonium Sulfate	0.77 lb ae/a B				
Roundup PowerMAX	8.5 lb/100 gal B				
Ammonium Sulfate	0.77 lb ae/a C				
Roundup PowerMAX	8.5 lb/100 gal C				
Ammonium Sulfate					

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Pest Type	W Weed				
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Pest Scientific Name	Conyza canadensis	Conyza canadensis	Conyza canadensis	Conyza canadensis	Senecio glabellus
Pest Name	Canada horseweed	Horseweed	Horseweed	Horseweed	Cressleaf groundsel
Crop Code	N/A	GLXMA	GLXMA	GLXMA	N/A
Crop Scientific Name		Glycine max	Glycine max	Glycine max	
Crop Name		Soybean	Soybean	Soybean	
Part Rated	PLOT P				
Rating Date	5/18/09	6/5/09	6/17/09	7/28/09	5/18/09
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Sample Size, Unit					
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	N/A	V1	V1	R2	N/A
Crop Stage Minimum/Maximum		2-4"	4-8"	24-36"	
Pest Stage Majority	BOLT	COTY-BOL	COTY-BOL	BOLT	FLOWER
Pest Stage Minimum/Maximum	0.5-5"	1-12"	1-18"	4-36"	4-24"
Pest Density, Unit	3 YD2	11 YD2	25 YD2	3 YD2	3 YD2
Footnote Number					
Assessed By	MK&JM	GK CB	GK CB	MK JD	MK&JM
Rating Timing					
Days After First/Last Applic.	13 13	31 31	43 43	84 28	13 13
Trt-Eval Interval	13 DA-A				13 DA-A
Plant-Eval Interval	-39 DP-1	-21 DP-1	-9 DP-1	32 DP-1	-39 DP-1
Days After Emergence	-13 DE	5 DE-1	17 DE-	58 DE-	-13 DE
Number of Decimals					
Trt No.	1	7	13	19	2
Treatment Name					
Rate					
Unit					
Appl Code					
12 Roundup PowerMAX 2,4-D Ester	100.0 a	94.5 a	83.5 a	98.8 a	92.0 a
Ammonium Sulfate					
Roundup PowerMAX					
Ammonium Sulfate					
Roundup PowerMAX					
Ammonium Sulfate					
LSD (P=.05)	1.14	6.40	18.24	1.38	6.52
Standard Deviation	0.79	4.43	12.64	0.96	4.51
CV	0.87	5.04	15.21	1.05	4.98
Bartlett's X2	12.754	25.348	59.141	17.813	42.297
P(Bartlett's X2)	0.013*	0.005*	0.001*	0.058	0.001*
Replicate F	1.894	0.478	0.447	0.423	0.696
Replicate Prob(F)	0.1498	0.6995	0.7212	0.7377	0.5613
Treatment F	5291.538	156.908	18.030	3581.028	161.215
Treatment Prob(F)	0.0001	0.0001	0.0001	0.0001	0.0001

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.

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	ALOCA	ALOCA	TAROF	TAROF	TAROF
Pest Scientific Name	Alopecurus car>	Alopecurus car>	Taraxacum offi>	Taraxacum offi>	Taraxacum offi>
Pest Name	Carolina foxta>	Carolina foxta>	Common dandel>	Common dandel>	Common dandel>
Crop Code	N/A	GLXMA	N/A	GLXMA	GLXMA
Crop Scientific Name		Glycine max		Glycine max	Glycine max
Crop Name		Soybean		Soybean	Soybean
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	5/18/09	6/17/09	5/18/09	6/5/09	6/17/09
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Sample Size, Unit					
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	N/A	V1	N/A	V1	V1
Crop Stage Minimum/Maximum		4-8"		2-4"	4-8"
Pest Stage Majority	VEG	SEED	VEG	ROSETT	ROSETT
Pest Stage Minimum/Maximum	4-14"	8-12"	6-10"	1-12"	5-18"
Pest Density, Unit	27 FT2	3 YD2	4 YD2	11 YD2	5 YD2
Footnote Number					
Assessed By	MK&JM	GK CB	MK&JM	GK CB	GK CB
Rating Timing					
Days After First/Last Applic.	13 13	43 43	13 13	31 31	43 43
Trt-Eval Interval	13 DA-A		13 DA-A		
Plant-Eval Interval	-39 DP-1	-9 DP-1	-39 DP-1	-21 DP-1	-9 DP-1
Days After Emergence	-13 DE	17 DE-	-13 DE	5 DE-1	17 DE-
Number of Decimals					
Trt No.	3	12	4	8	14
Treatment Name					
Rate					
Unit					
Appl Code					
1 Untreated	0.0 c	0.0 b	0.0 c	0.0 d	0.0 c
2 Ignite	99.5 a	68.5 a	98.8 a	68.8 ab	76.5 a
Ammonium Sulfate	0.4 lb ai/a A				
Roundup PowerMAX	8.5 lb/100 gal A				
Ammonium Sulfate	0.77 lb ae/a B				
Roundup PowerMAX	8.5 lb/100 gal B				
Ammonium Sulfate	0.77 lb ae/a C				
Roundup PowerMAX	8.5 lb/100 gal C				
Ammonium Sulfate	8.5 lb/100 gal C				
3 Ignite	98.5 ab	69.8 a	99.8 a	89.3 ab	83.3 a
Ammonium Sulfate	0.53 lb ai/a A				
Roundup PowerMAX	8.5 lb/100 gal A				
Ammonium Sulfate	0.77 lb ae/a B				
Roundup PowerMAX	8.5 lb/100 gal B				
Ammonium Sulfate	0.77 lb ae/a C				
Roundup PowerMAX	8.5 lb/100 gal C				
Ammonium Sulfate	8.5 lb/100 gal C				
4 Ignite	96.3 b	56.0 a	100.0 a	85.0 ab	74.3 a
2,4-D Ester	0.53 lb ai/a A				
Ammonium Sulfate	0.5 lb ae/a A				
Roundup PowerMAX	8.5 lb/100 gal A				
Ammonium Sulfate	0.77 lb ae/a B				
Roundup PowerMAX	8.5 lb/100 gal B				
Ammonium Sulfate	0.77 lb ae/a C				
Roundup PowerMAX	8.5 lb/100 gal C				
Ammonium Sulfate	8.5 lb/100 gal C				

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Pest Type	W Weed						
Pest Code	ALOCA	ALOCA	TAROF	TAROF	TAROF		
Pest Scientific Name	Alopecurus car>	Alopecurus car>	Taraxacum offi>	Taraxacum offi>	Taraxacum offi>		
Pest Name	Carolina foxta>	Carolina foxta>	Common dandeli>	Common dandeli>	Common dandeli>		
Crop Code	N/A	GLXMA	N/A	GLXMA	GLXMA		
Crop Scientific Name		Glycine max		Glycine max	Glycine max		
Crop Name		Soybean		Soybean	Soybean		
Part Rated	PLOT P						
Rating Date	5/18/09	6/17/09	5/18/09	6/5/09	6/17/09		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%		
Sample Size, Unit							
Number of Subsamples	1	1	1	1	1		
Crop Stage Majority	N/A	V1	N/A	V1	V1		
Crop Stage Minimum/Maximum		4-8"		2-4"	4-8"		
Pest Stage Majority	VEG	SEED	VEG	ROSETT	ROSETT		
Pest Stage Minimum/Maximum	4-14"	8-12"	6-10"	1-12"	5-18"		
Pest Density, Unit	27 FT2	3 YD2	4 YD2	11 YD2	5 YD2		
Footnote Number							
Assessed By	MK&JM	GK CB	MK&JM	GK CB	GK CB		
Rating Timing							
Days After First/Last Applic.	13 13	43 43	13 13	31 31	43 43		
Trt-Eval Interval	13 DA-A		13 DA-A				
Plant-Eval Interval	-39 DP-1	-9 DP-1	-39 DP-1	-21 DP-1	-9 DP-1		
Days After Emergence	-13 DE	17 DE-	-13 DE	5 DE-1	17 DE-		
Number of Decimals							
Trt No.	3	12	4	8	14		
Treatment Name							
Rate							
Rate Unit							
Appl Code							
5 Ignite	0.53 lb ai/a	A	99.3 a	67.0 a	100.0 a	97.5 a	93.8 a
Valor XLT		A					
Valor SX	0.056 lb ai/a	A					
Classic	0.0194 lb ai/a	A					
Ammonium Sulfate	8.5 lb/100 gal	A					
Roundup PowerMAX	0.77 lb ae/a	B					
Ammonium Sulfate	8.5 lb/100 gal	B					
Roundup PowerMAX	0.77 lb ae/a	C					
Ammonium Sulfate	8.5 lb/100 gal	C					
6 Ignite	0.53 lb ai/a	A	97.5 ab	93.0 a	99.5 a	87.3 ab	86.0 a
Sharpen	0.0223 lb ai/a	A					
COC	1 % v/v	A					
Ammonium Sulfate	8.5 lb/100 gal	A					
Roundup PowerMAX	0.77 lb ae/a	B					
Ammonium Sulfate	8.5 lb/100 gal	B					
Roundup PowerMAX	0.77 lb ae/a	C					
Ammonium Sulfate	8.5 lb/100 gal	C					
7 Ignite	0.4 lb ai/a	A	98.5 ab	62.0 a	99.5 a	66.3 ab	68.8 a
Roundup PowerMAX	0.77 lb ae/a	A					
Ammonium Sulfate	8.5 lb/100 gal	A					
Roundup PowerMAX	0.77 lb ae/a	B					
Ammonium Sulfate	8.5 lb/100 gal	B					
Roundup PowerMAX	0.77 lb ae/a	C					
Ammonium Sulfate	8.5 lb/100 gal	C					
8 Roundup PowerMAX	0.77 lb ae/a	A	99.5 a	99.0 a	94.3 a	92.5 ab	72.5 a
Ammonium Sulfate	8.5 lb/100 gal	A					
Roundup PowerMAX	0.77 lb ae/a	B					
Ammonium Sulfate	8.5 lb/100 gal	B					
Roundup PowerMAX	0.77 lb ae/a	C					
Ammonium Sulfate	8.5 lb/100 gal	C					

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					W Weed				
					ALOCA	ALOCA	TAROF	TAROF	TAROF
					Alopecurus car>	Alopecurus car>	Taraxacum offi>	Taraxacum offi>	Taraxacum offi>
					Carolina foxta>	Carolina foxta>	Common dandeli>	Common dandeli>	Common dandeli>
					N/A	GLXMA	N/A	GLXMA	GLXMA
						Glycine max		Glycine max	Glycine max
						Soybean		Soybean	Soybean
					PLOT P				
					5/18/09	6/17/09	5/18/09	6/5/09	6/17/09
					CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
					%	%	%	%	%
Sample Size, Unit									
Number of Subsamples					1	1	1	1	1
Crop Stage Majority					N/A	V1	N/A	V1	V1
Crop Stage Minimum/Maximum						4-8"		2-4"	4-8"
Pest Stage Majority					VEG	SEED	VEG	ROSETT	ROSETT
Pest Stage Minimum/Maximum					4-14"	8-12"	6-10"	1-12"	5-18"
Pest Density, Unit					27 FT2	3 YD2	4 YD2	11 YD2	5 YD2
Footnote Number									
Assessed By					MK&JM	GK CB	MK&JM	GK CB	GK CB
Rating Timing									
Days After First/Last Applic.					13 13	43 43	13 13	31 31	43 43
Trt-Eval Interval					13 DA-A		13 DA-A		
Plant-Eval Interval					-39 DP-1	-9 DP-1	-39 DP-1	-21 DP-1	-9 DP-1
Days After Emergence					-13 DE	17 DE-	-13 DE	5 DE-1	17 DE-
Number of Decimals									
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	3	12	4	8	14
9	Sharpen	0.0223	lb ai/a	A	100.0 a	99.0 a	97.8 a	94.0 ab	90.3 a
	Roundup PowerMAX	0.77	lb ae/a	A					
	Ammonium Sulfate	8.5	lb/100 gal	A					
	Roundup PowerMAX	0.77	lb ae/a	B					
	Ammonium Sulfate	8.5	lb/100 gal	B					
	Roundup PowerMAX	0.77	lb ae/a	C					
	Ammonium Sulfate	8.5	lb/100 gal	C					
10	Gramoxone Inteon	0.625	lb ai/a	A	99.0 a	95.5 a	80.0 b	27.5 c	26.3 b
	NIS	0.25	% v/v	A					
	Roundup PowerMAX	0.77	lb ae/a	B					
	Ammonium Sulfate	8.5	lb/100 gal	B					
	Roundup PowerMAX	0.77	lb ae/a	C					
	Ammonium Sulfate	8.5	lb/100 gal	C					
11	Gramoxone Inteon	0.625	lb ai/a	A	99.3 a	84.3 a	95.3 a	63.8 b	42.5 b
	2,4-D Ester	0.5	lb ae/a	A					
	Roundup PowerMAX	0.77	lb ae/a	B					
	Ammonium Sulfate	8.5	lb/100 gal	B					
	Roundup PowerMAX	0.77	lb ae/a	C					
	Ammonium Sulfate	8.5	lb/100 gal	C					

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Pest Type	W Weed				
Pest Code	ALOCA	ALOCA	TAROF	TAROF	TAROF
Pest Scientific Name	Alopecurus car>	Alopecurus car>	Taraxacum offi>	Taraxacum offi>	Taraxacum offi>
Pest Name	Carolina foxta>	Carolina foxta>	Common dandeli>	Common dandeli>	Common dandeli>
Crop Code	N/A	GLXMA	N/A	GLXMA	GLXMA
Crop Scientific Name		Glycine max		Glycine max	Glycine max
Crop Name		Soybean		Soybean	Soybean
Part Rated	PLOT P				
Rating Date	5/18/09	6/17/09	5/18/09	6/5/09	6/17/09
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Sample Size, Unit					
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	N/A	V1	N/A	V1	V1
Crop Stage Minimum/Maximum		4-8"		2-4"	4-8"
Pest Stage Majority	VEG	SEED	VEG	ROSETT	ROSETT
Pest Stage Minimum/Maximum	4-14"	8-12"	6-10"	1-12"	5-18"
Pest Density, Unit	27 FT2	3 YD2	4 YD2	11 YD2	5 YD2
Footnote Number					
Assessed By	MK&JM	GK CB	MK&JM	GK CB	GK CB
Rating Timing					
Days After First/Last Applic.	13 13	43 43	13 13	31 31	43 43
Trt-Eval Interval	13 DA-A		13 DA-A		
Plant-Eval Interval	-39 DP-1	-9 DP-1	-39 DP-1	-21 DP-1	-9 DP-1
Days After Emergence	-13 DE	17 DE-	-13 DE	5 DE-1	17 DE-
Number of Decimals					
Trt No.	3	12	4	8	14
Treatment Name					
Rate					
Rate Unit					
Appl Code					
12 Roundup PowerMAX	0.77 lb ae/a				
2,4-D Ester	0.5 lb ae/a				
Ammonium Sulfate	8.5 lb/100 gal				
Roundup PowerMAX	0.77 lb ae/a				
Ammonium Sulfate	8.5 lb/100 gal				
Roundup PowerMAX	0.77 lb ae/a				
Ammonium Sulfate	8.5 lb/100 gal				
LSD (P=.05)	1.86	39.14	4.94	19.59	21.04
Standard Deviation	1.29	27.11	3.42	13.57	14.57
CV	1.43	36.43	3.86	19.02	22.01
Bartlett's X2	20.425	13.323	50.076	26.968	21.665
P(Bartlett's X2)	0.015*	0.065	0.001*	0.003*	0.017*
Replicate F	0.200	1.343	0.777	0.958	4.212
Replicate Prob(F)	0.8956	0.2777	0.5153	0.4241	0.0128
Treatment F	1955.655	4.376	276.118	19.117	15.384
Treatment Prob(F)	0.0001	0.0005	0.0001	0.0001	0.0001

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	TAROF	BROTE	PANDI	PANDI	PANDI
Pest Scientific Name	Taraxacum offi>	Bromus tectorum	Panicum dichot>	Panicum dichot>	Panicum dichot>
Pest Name	Common dandeli>	Downy brome	Fall panicum	Fall panicum	Fall panicum
Crop Code	GLXMA	N/A	GLXMA	GLXMA	GLXMA
Crop Scientific Name	Glycine max		Glycine max	Glycine max	Glycine max
Crop Name	Soybean		Soybean	Soybean	Soybean
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	7/28/09	5/18/09	6/5/09	6/17/09	7/28/09
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Sample Size, Unit					
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	R2	N/A	V1	V1	R2
Crop Stage Minimum/Maximum	24-36"		2-4"	4-8"	24-36"
Pest Stage Majority	VEG	SEED	1-3 LF	VEG	TILLER
Pest Stage Minimum/Maximum	6-18"	4-20"	1-5"	2-10"	12-30"
Pest Density, Unit	6 YD2	13 FT2	65 YD2	26 YD2	11 YD2
Footnote Number					
Assessed By	MK JD	MK&JM	GK CB	GK CB	MK JD
Rating Timing					
Days After First/Last Applic.	84 28	13 13	31 31	43 43	84 28
Trt-Eval Interval		13 DA-A			
Plant-Eval Interval	32 DP-1	-39 DP-1	-21 DP-1	-9 DP-1	32 DP-1
Days After Emergence	58 DE-	-13 DE	5 DE-1	17 DE-	58 DE-
Number of Decimals					
Trt No.	Treatment Name	Rate	Unit	Appl Code	
20					
5					
6					
18					
23					
1	Untreated	0.0	b		0.0 b
2	Ignite	0.4	lb ai/a	A	99.8 a
	Ammonium Sulfate	8.5	lb/100 gal	A	
	Roundup PowerMAX	0.77	lb ae/a	B	
	Ammonium Sulfate	8.5	lb/100 gal	B	
	Roundup PowerMAX	0.77	lb ae/a	C	
	Ammonium Sulfate	8.5	lb/100 gal	C	
3	Ignite	0.53	lb ai/a	A	100.0 a
	Ammonium Sulfate	8.5	lb/100 gal	A	
	Roundup PowerMAX	0.77	lb ae/a	B	
	Ammonium Sulfate	8.5	lb/100 gal	B	
	Roundup PowerMAX	0.77	lb ae/a	C	
	Ammonium Sulfate	8.5	lb/100 gal	C	
4	Ignite	0.53	lb ai/a	A	100.0 a
	2,4-D Ester	0.5	lb ae/a	A	
	Ammonium Sulfate	8.5	lb/100 gal	A	
	Roundup PowerMAX	0.77	lb ae/a	B	
	Ammonium Sulfate	8.5	lb/100 gal	B	
	Roundup PowerMAX	0.77	lb ae/a	C	
	Ammonium Sulfate	8.5	lb/100 gal	C	

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	TAROF	BROTE	PANDI	PANDI	PANDI			
Pest Scientific Name	Taraxacum offi>	Bromus tectorum	Panicum dichot>	Panicum dichot>	Panicum dichot>			
Pest Name	Common dandel>	Downy brome	Fall panicum	Fall panicum	Fall panicum			
Crop Code	GLXMA	N/A	GLXMA	GLXMA	GLXMA			
Crop Scientific Name	Glycine max		Glycine max	Glycine max	Glycine max			
Crop Name	Soybean		Soybean	Soybean	Soybean			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P			
Rating Date	7/28/09	5/18/09	6/5/09	6/17/09	7/28/09			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Sample Size, Unit								
Number of Subsamples	1	1	1	1	1			
Crop Stage Majority	R2	N/A	V1	V1	R2			
Crop Stage Minimum/Maximum	24-36"		2-4"	4-8"	24-36"			
Pest Stage Majority	VEG	SEED	1-3 LF	VEG	TILLER			
Pest Stage Minimum/Maximum	6-18"	4-20"	1-5"	2-10"	12-30"			
Pest Density, Unit	6 YD2	13 FT2	65 YD2	26 YD2	11 YD2			
Footnote Number								
Assessed By	MK JD	MK&JM	GK CB	GK CB	MK JD			
Rating Timing								
Days After First/Last Applic.	84 28	13 13	31 31	43 43	84 28			
Trt-Eval Interval		13 DA-A						
Plant-Eval Interval	32 DP-1	-39 DP-1	-21 DP-1	-9 DP-1	32 DP-1			
Days After Emergence	58 DE-	-13 DE	5 DE-1	17 DE-	58 DE-			
Number of Decimals								
Trt No.	Treatment Name	Rate	Appl Code	20	5	6	18	23
5	Ignite	0.53 lb ai/a	A	100.0 a	97.5 a	95.8 a	95.0 a	99.8 a
	Valor XLT		A					
	Valor SX	0.056 lb ai/a	A					
	Classic	0.0194 lb ai/a	A					
	Ammonium Sulfate	8.5 lb/100 gal	A					
	Roundup PowerMAX	0.77 lb ae/a	B					
	Ammonium Sulfate	8.5 lb/100 gal	B					
	Roundup PowerMAX	0.77 lb ae/a	C					
	Ammonium Sulfate	8.5 lb/100 gal	C					
6	Ignite	0.53 lb ai/a	A	99.5 a	95.8 a	93.3 a	89.0 a	99.8 a
	Sharpen	0.0223 lb ai/a	A					
	COC	1 % v/v	A					
	Ammonium Sulfate	8.5 lb/100 gal	A					
	Roundup PowerMAX	0.77 lb ae/a	B					
	Ammonium Sulfate	8.5 lb/100 gal	B					
	Roundup PowerMAX	0.77 lb ae/a	C					
	Ammonium Sulfate	8.5 lb/100 gal	C					
7	Ignite	0.4 lb ai/a	A	99.8 a	96.5 a	93.0 a	88.0 a	99.8 a
	Roundup PowerMAX	0.77 lb ae/a	A					
	Ammonium Sulfate	8.5 lb/100 gal	A					
	Roundup PowerMAX	0.77 lb ae/a	B					
	Ammonium Sulfate	8.5 lb/100 gal	B					
	Roundup PowerMAX	0.77 lb ae/a	C					
	Ammonium Sulfate	8.5 lb/100 gal	C					
8	Roundup PowerMAX	0.77 lb ae/a	A	100.0 a	93.0 a	93.5 a	70.8 a	99.8 a
	Ammonium Sulfate	8.5 lb/100 gal	A					
	Roundup PowerMAX	0.77 lb ae/a	B					
	Ammonium Sulfate	8.5 lb/100 gal	B					
	Roundup PowerMAX	0.77 lb ae/a	C					
	Ammonium Sulfate	8.5 lb/100 gal	C					

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					W Weed				
					TAROF	BROTE	PANDI	PANDI	PANDI
					Taraxacum offi>	Bromus tectorum	Panicum dichot>	Panicum dichot>	Panicum dichot>
					Common dandel>	Downy brome	Fall panicum	Fall panicum	Fall panicum
					GLXMA	N/A	GLXMA	GLXMA	GLXMA
					Glycine max		Glycine max	Glycine max	Glycine max
					Soybean		Soybean	Soybean	Soybean
					PLOT P				
					7/28/09	5/18/09	6/5/09	6/17/09	7/28/09
					CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
					%	%	%	%	%
Sample Size, Unit									
Number of Subsamples					1	1	1	1	1
Crop Stage Majority					R2	N/A	V1	V1	R2
Crop Stage Minimum/Maximum					24-36"		2-4"	4-8"	24-36"
Pest Stage Majority					VEG	SEED	1-3 LF	VEG	TILLER
Pest Stage Minimum/Maximum					6-18"	4-20"	1-5"	2-10"	12-30"
Pest Density, Unit					6 YD2	13 FT2	65 YD2	26 YD2	11 YD2
Footnote Number									
Assessed By					MK JD	MK&JM	GK CB	GK CB	MK JD
Rating Timing									
Days After First/Last Applic.					84 28	13 13	31 31	43 43	84 28
Trt-Eval Interval						13 DA-A			
Plant-Eval Interval					32 DP-1	-39 DP-1	-21 DP-1	-9 DP-1	32 DP-1
Days After Emergence					58 DE-	-13 DE	5 DE-1	17 DE-	58 DE-
Number of Decimals									
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	20	5	6	18	23
9	Sharpen	0.0223	lb ai/a	A	99.8 a	94.3 a	85.3 a	88.3 a	99.8 a
	Roundup PowerMAX	0.77	lb ae/a	A					
	Ammonium Sulfate	8.5	lb/100 gal	A					
	Roundup PowerMAX	0.77	lb ae/a	B					
	Ammonium Sulfate	8.5	lb/100 gal	B					
	Roundup PowerMAX	0.77	lb ae/a	C					
	Ammonium Sulfate	8.5	lb/100 gal	C					
10	Gramoxone Inteon	0.625	lb ai/a	A	99.3 a	98.3 a	90.3 a	91.3 a	99.5 a
	NIS	0.25	% v/v	A					
	Roundup PowerMAX	0.77	lb ae/a	B					
	Ammonium Sulfate	8.5	lb/100 gal	B					
	Roundup PowerMAX	0.77	lb ae/a	C					
	Ammonium Sulfate	8.5	lb/100 gal	C					
11	Gramoxone Inteon	0.625	lb ai/a	A	99.5 a	98.8 a	82.8 a	90.0 a	99.5 a
	2,4-D Ester	0.5	lb ae/a	A					
	Roundup PowerMAX	0.77	lb ae/a	B					
	Ammonium Sulfate	8.5	lb/100 gal	B					
	Roundup PowerMAX	0.77	lb ae/a	C					
	Ammonium Sulfate	8.5	lb/100 gal	C					

Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	TAROF	BROTE	PANDI	PANDI	PANDI
Pest Scientific Name	Taraxacum offi>	Bromus tectorum	Panicum dichot>	Panicum dichot>	Panicum dichot>
Pest Name	Common dandel>	Downy brome	Fall panicum	Fall panicum	Fall panicum
Crop Code	GLXMA	N/A	GLXMA	GLXMA	GLXMA
Crop Scientific Name	Glycine max		Glycine max	Glycine max	Glycine max
Crop Name	Soybean		Soybean	Soybean	Soybean
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	7/28/09	5/18/09	6/5/09	6/17/09	7/28/09
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%
Sample Size, Unit					
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	R2	N/A	V1	V1	R2
Crop Stage Minimum/Maximum	24-36"		2-4"	4-8"	24-36"
Pest Stage Majority	VEG	SEED	1-3 LF	VEG	TILLER
Pest Stage Minimum/Maximum	6-18"	4-20"	1-5"	2-10"	12-30"
Pest Density, Unit	6 YD2	13 FT2	65 YD2	26 YD2	11 YD2
Footnote Number					
Assessed By	MK JD	MK&JM	GK CB	GK CB	MK JD
Rating Timing					
Days After First/Last Applic.	84 28	13 13	31 31	43 43	84 28
Trt-Eval Interval		13 DA-A			
Plant-Eval Interval	32 DP-1	-39 DP-1	-21 DP-1	-9 DP-1	32 DP-1
Days After Emergence	58 DE-	-13 DE	5 DE-1	17 DE-	58 DE-
Number of Decimals					
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	
		20	5	6	18
12	Roundup PowerMAX	0.77 lb ae/a	A		
	2,4-D Ester	0.5 lb ae/a	A		
	Ammonium Sulfate	8.5 lb/100 gal	A		
	Roundup PowerMAX	0.77 lb ae/a	B		
	Ammonium Sulfate	8.5 lb/100 gal	B		
	Roundup PowerMAX	0.77 lb ae/a	C		
	Ammonium Sulfate	8.5 lb/100 gal	C		
LSD (P=.05)		0.76	16.91	17.43	22.88
Standard Deviation		0.53	11.71	12.07	15.85
CV		0.58	13.66	14.68	19.56
Bartlett's X2		3.525	62.757	20.648	39.358
P(Bartlett's X2)		0.741	0.001*	0.024*	0.001*
Replicate F		1.000	1.158	1.241	4.663
Replicate Prob(F)		0.4051	0.3404	0.3105	0.0080
Treatment F		11935.529	22.155	19.006	6.047
Treatment Prob(F)		0.0001	0.0001	0.0001	0.0001
		99.5 a	94.8 a	92.0 a	80.8 a
					99.8 a

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	XANST	XANST	XANST	IPOSS	IPOSS	IPOSS				
Pest Scientific Name	Xanthium strum>	Xanthium strum>	Xanthium strum>	Ipomoea sp.	Ipomoea sp.	Ipomoea sp.				
Pest Name	Common cockleb>	Common cockleb>	Common cockleb>	Morning glory	Morning glory	Morning glory				
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA				
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max				
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean				
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P				
Rating Date	6/5/09	6/17/09	7/28/09	6/5/09	6/17/09	7/28/09				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%	%				
Sample Size, Unit										
Number of Subsamples	1	1	1	1	1	1				
Crop Stage Majority	V1	V1	R2	V1	V1	R2				
Crop Stage Minimum/Maximum	2-4"	4-8"	24-36"	2-4"	4-8"	24-36"				
Pest Stage Majority	2-5 NOD	VEG	VEG	COTY-2LF	VINE	VINE				
Pest Stage Minimum/Maximum	1-8"	3-6"	2-28"	1-3"	1-10"	4-24"				
Pest Density, Unit	13 YD2	6 YD2	5 YD2	5 YD2	9 YD2	6 YD2				
Footnote Number										
Assessed By	GK CB	GK CB	MK JD	GK CB	GK CB	MK JD				
Rating Timing										
Days After First/Last Applic.	31 31	43 43	84 28	31 31	43 43	84 28				
Trt-Eval Interval										
Plant-Eval Interval	-21 DP-1	-9 DP-1	32 DP-1	-21 DP-1	-9 DP-1	32 DP-1				
Days After Emergence	5 DE-1	17 DE-	58 DE-	5 DE-1	17 DE-	58 DE-				
Number of Decimals										
Trt No.	Treatment Name	Rate	Unit	Appl Code	9	16	24	10	15	21
1	Untreated	0.0	c		0.0	d	0.0	b	0.0	b
2	Ignite	0.4	lb ai/a	A	73.8	ab	66.8	abc	98.3	a
	Ammonium Sulfate	8.5	lb/100 gal	A					78.0	a
	Roundup PowerMAX	0.77	lb ae/a	B					62.5	a
	Ammonium Sulfate	8.5	lb/100 gal	B						
	Roundup PowerMAX	0.77	lb ae/a	C						
	Ammonium Sulfate	8.5	lb/100 gal	C						
3	Ignite	0.53	lb ai/a	A	58.8	ab	82.6	ab	98.8	a
	Ammonium Sulfate	8.5	lb/100 gal	A					53.8	a
	Roundup PowerMAX	0.77	lb ae/a	B					57.0	a
	Ammonium Sulfate	8.5	lb/100 gal	B						
	Roundup PowerMAX	0.77	lb ae/a	C						
	Ammonium Sulfate	8.5	lb/100 gal	C						
4	Ignite	0.53	lb ai/a	A	67.0	ab	72.5	abc	99.3	a
	2,4-D Ester	0.5	lb ae/a	A					95.3	a
	Ammonium Sulfate	8.5	lb/100 gal	A						
	Roundup PowerMAX	0.77	lb ae/a	B						
	Ammonium Sulfate	8.5	lb/100 gal	B						
	Roundup PowerMAX	0.77	lb ae/a	C						
	Ammonium Sulfate	8.5	lb/100 gal	C						

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	XANST	XANST	XANST	IPOSS	IPOSS	IPOSS
Pest Scientific Name	Xanthium strum>	Xanthium strum>	Xanthium strum>	Ipomoea sp.	Ipomoea sp.	Ipomoea sp.
Pest Name	Common cockleb>	Common cockleb>	Common cockleb>	Morning glory	Morning glory	Morning glory
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	6/5/09	6/17/09	7/28/09	6/5/09	6/17/09	7/28/09
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Sample Size, Unit						
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	V1	V1	R2	V1	V1	R2
Crop Stage Minimum/Maximum	2-4"	4-8"	24-36"	2-4"	4-8"	24-36"
Pest Stage Majority	2-5 NOD	VEG	VEG	COTY-2LF	VINE	VINE
Pest Stage Minimum/Maximum	1-8"	3-6"	2-28"	1-3"	1-10"	4-24"
Pest Density, Unit	13 YD2	6 YD2	5 YD2	5 YD2	9 YD2	6 YD2
Footnote Number						
Assessed By	GK CB	GK CB	MK JD	GK CB	GK CB	MK JD
Rating Timing						
Days After First/Last Applic.	31 31	43 43	84 28	31 31	43 43	84 28
Trt-Eval Interval						
Plant-Eval Interval	-21 DP-1	-9 DP-1	32 DP-1	-21 DP-1	-9 DP-1	32 DP-1
Days After Emergence	5 DE-1	17 DE-	58 DE-	5 DE-1	17 DE-	58 DE-
Number of Decimals						
Trt No.	9	16	24	10	15	21
Treatment Name						
Rate						
Unit						
Appl Code						
5 Ignite	0.53 lb ai/a			81.3 a	93.8 a	97.5 a
Valor XLT						
Valor SX	0.056 lb ai/a					
Classic	0.0194 lb ai/a					
Ammonium Sulfate	8.5 lb/100 gal					
Roundup PowerMAX	0.77 lb ae/a					
Ammonium Sulfate	8.5 lb/100 gal					
Roundup PowerMAX	0.77 lb ae/a					
Ammonium Sulfate	8.5 lb/100 gal					
6 Ignite	0.53 lb ai/a			82.5 a	66.3 a	97.3 a
Sharpen	0.0223 lb ai/a					
COC	1 % v/v					
Ammonium Sulfate	8.5 lb/100 gal					
Roundup PowerMAX	0.77 lb ae/a					
Ammonium Sulfate	8.5 lb/100 gal					
Roundup PowerMAX	0.77 lb ae/a					
Ammonium Sulfate	8.5 lb/100 gal					
7 Ignite	0.4 lb ai/a			82.5 a	63.8 a	96.8 a
Roundup PowerMAX	0.77 lb ae/a					
Ammonium Sulfate	8.5 lb/100 gal					
Roundup PowerMAX	0.77 lb ae/a					
Ammonium Sulfate	8.5 lb/100 gal					
Roundup PowerMAX	0.77 lb ae/a					
Ammonium Sulfate	8.5 lb/100 gal					
8 Roundup PowerMAX	0.77 lb ae/a			97.3 a	76.3 a	98.5 a
Ammonium Sulfate	8.5 lb/100 gal					
Roundup PowerMAX	0.77 lb ae/a					
Ammonium Sulfate	8.5 lb/100 gal					
Roundup PowerMAX	0.77 lb ae/a					
Ammonium Sulfate	8.5 lb/100 gal					

Purdue University

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code	XANST	XANST	XANST	IPOSS	IPOSS	IPOSS
Pest Scientific Name	Xanthium strum>	Xanthium strum>	Xanthium strum>	Ipomoea sp.	Ipomoea sp.	Ipomoea sp.
Pest Name	Common cockleb>	Common cockleb>	Common cockleb>	Morning glory	Morning glory	Morning glory
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean	Soybean
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	6/5/09	6/17/09	7/28/09	6/5/09	6/17/09	7/28/09
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%	%	%
Sample Size, Unit						
Number of Subsamples	1	1	1	1	1	1
Crop Stage Majority	V1	V1	R2	V1	V1	R2
Crop Stage Minimum/Maximum	2-4"	4-8"	24-36"	2-4"	4-8"	24-36"
Pest Stage Majority	2-5 NOD	VEG	VEG	COTY-2LF	VINE	VINE
Pest Stage Minimum/Maximum	1-8"	3-6"	2-28"	1-3"	1-10"	4-24"
Pest Density, Unit	13 YD2	6 YD2	5 YD2	5 YD2	9 YD2	6 YD2
Footnote Number						
Assessed By	GK CB	GK CB	MK JD	GK CB	GK CB	MK JD
Rating Timing						
Days After First/Last Applic.	31 31	43 43	84 28	31 31	43 43	84 28
Trt-Eval Interval						
Plant-Eval Interval	-21 DP-1	-9 DP-1	32 DP-1	-21 DP-1	-9 DP-1	32 DP-1
Days After Emergence	5 DE-1	17 DE-	58 DE-	5 DE-1	17 DE-	58 DE-
Number of Decimals						
Trt No.	9	16	24	10	15	21
Treatment Name	Sharpen					
Rate	0.0223 lb ai/a					
Unit	lb ai/a					
Appl Code	A					
	Roundup PowerMAX					
	0.77 lb ae/a					
	Ammonium Sulfate					
	8.5 lb/100 gal					
	Roundup PowerMAX					
	0.77 lb ae/a					
	Ammonium Sulfate					
	8.5 lb/100 gal					
	Roundup PowerMAX					
	0.77 lb ae/a					
	Ammonium Sulfate					
	8.5 lb/100 gal					
	Roundup PowerMAX					
	0.77 lb ae/a					
	Ammonium Sulfate					
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	Roundup PowerMAX					
	0.77 lb ae/a					
	Ammonium Sulfate					
	8.5 lb/100 gal					
	Roundup PowerMAX					
	0.77 lb ae/a					
	Ammonium Sulfate					



Pest Type	W Weed	W Weed	W Weed		
Pest Code	AMBEL	AMBEL	AMBEL		
Pest Scientific Name	Ambrosia artem>	Ambrosia artem>	Ambrosia artem>		
Pest Name	Common ragweed	Common ragweed	Common ragweed		
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean
Part Rated	PLOT P	PLOT P	PLOT P		
Rating Date	6/5/09	6/17/09	7/28/09	11/6/09	11/6/09
Rating Type	CONTRO	CONTRO	CONTRO	YIELD	YIELD
Rating Unit	%	%	%	LB	BU
Sample Size, Unit					
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	V1	V1	R2	Mature	Mature
Crop Stage Minimum/Maximum	2-4"	4-8"	24-36"		
Pest Stage Majority	2-4 NOD	VEG	VEG		
Pest Stage Minimum/Maximum	1-4"	3-7"	6-20"		
Pest Density, Unit	6 YD2	3 YD2	3 YD2		
Footnote Number					
Assessed By	GK CB	GK CB	MK JD	PM	PM
Rating Timing					
Days After First/Last Applic.	31 31	43 43	84 28	185 129	185 129
Trt-Eval Interval					
Plant-Eval Interval	-21 DP-1	-9 DP-1	32 DP-1	133 DP-1	133 DP-1
Days After Emergence	5 DE-1	17 DE-	58 DE-	159 DE	159 DE
Number of Decimals					1
Trt No.	Treatment	Rate	Unit	Appl Code	
11					
1	Untreated	0.0	b		
2	Ignite	0.4	lb ai/a	A	
	Ammonium Sulfate	8.5	lb/100 gal	A	
	Roundup PowerMAX	0.77	lb ae/a	B	
	Ammonium Sulfate	8.5	lb/100 gal	B	
	Roundup PowerMAX	0.77	lb ae/a	C	
	Ammonium Sulfate	8.5	lb/100 gal	C	
3	Ignite	0.53	lb ai/a	A	
	Ammonium Sulfate	8.5	lb/100 gal	A	
	Roundup PowerMAX	0.77	lb ae/a	B	
	Ammonium Sulfate	8.5	lb/100 gal	B	
	Roundup PowerMAX	0.77	lb ae/a	C	
	Ammonium Sulfate	8.5	lb/100 gal	C	
4	Ignite	0.53	lb ai/a	A	
	2,4-D Ester	0.5	lb ae/a	A	
	Ammonium Sulfate	8.5	lb/100 gal	A	
	Roundup PowerMAX	0.77	lb ae/a	B	
	Ammonium Sulfate	8.5	lb/100 gal	B	
	Roundup PowerMAX	0.77	lb ae/a	C	
	Ammonium Sulfate	8.5	lb/100 gal	C	

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Pest Type	W Weed	W Weed	W Weed		
Pest Code	AMBEL	AMBEL	AMBEL		
Pest Scientific Name	Ambrosia artem>	Ambrosia artem>	Ambrosia artem>		
Pest Name	Common ragweed	Common ragweed	Common ragweed		
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean
Part Rated	PLOT P	PLOT P	PLOT P		
Rating Date	6/5/09	6/17/09	7/28/09	11/6/09	11/6/09
Rating Type	CONTRO	CONTRO	CONTRO	YIELD	YIELD
Rating Unit	%	%	%	LB	BU
Sample Size, Unit					
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	V1	V1	R2	Mature	Mature
Crop Stage Minimum/Maximum	2-4"	4-8"	24-36"		
Pest Stage Majority	2-4 NOD	VEG	VEG		
Pest Stage Minimum/Maximum	1-4"	3-7"	6-20"		
Pest Density, Unit	6 YD2	3 YD2	3 YD2		
Footnote Number					
Assessed By	GK CB	GK CB	MK JD	PM	PM
Rating Timing					
Days After First/Last Applic.	31 31	43 43	84 28	185 129	185 129
Trt-Eval Interval					
Plant-Eval Interval	-21 DP-1	-9 DP-1	32 DP-1	133 DP-1	133 DP-1
Days After Emergence	5 DE-1	17 DE-	58 DE-	159 DE	159 DE
Number of Decimals					1
Trt No.	Treatment	Rate	Appl		
	Name	Rate Unit	Code	11	17
5	Ignite	0.53 lb ai/a	A	99.8 a	98.8 a
	Valor XLT		A		
	Valor SX	0.056 lb ai/a	A		
	Classic	0.0194 lb ai/a	A		
	Ammonium Sulfate	8.5 lb/100 gal	A		
	Roundup PowerMAX	0.77 lb ae/a	B		
	Ammonium Sulfate	8.5 lb/100 gal	B		
	Roundup PowerMAX	0.77 lb ae/a	C		
	Ammonium Sulfate	8.5 lb/100 gal	C		
6	Ignite	0.53 lb ai/a	A	91.5 a	89.5 a
	Sharpen	0.0223 lb ai/a	A		
	COC	1 % v/v	A		
	Ammonium Sulfate	8.5 lb/100 gal	A		
	Roundup PowerMAX	0.77 lb ae/a	B		
	Ammonium Sulfate	8.5 lb/100 gal	B		
	Roundup PowerMAX	0.77 lb ae/a	C		
	Ammonium Sulfate	8.5 lb/100 gal	C		
7	Ignite	0.4 lb ai/a	A	92.3 a	77.5 a
	Roundup PowerMAX	0.77 lb ae/a	A		
	Ammonium Sulfate	8.5 lb/100 gal	A		
	Roundup PowerMAX	0.77 lb ae/a	B		
	Ammonium Sulfate	8.5 lb/100 gal	B		
	Roundup PowerMAX	0.77 lb ae/a	C		
	Ammonium Sulfate	8.5 lb/100 gal	C		
8	Roundup PowerMAX	0.77 lb ae/a	A	88.8 a	79.3 a
	Ammonium Sulfate	8.5 lb/100 gal	A		
	Roundup PowerMAX	0.77 lb ae/a	B		
	Ammonium Sulfate	8.5 lb/100 gal	B		
	Roundup PowerMAX	0.77 lb ae/a	C		
	Ammonium Sulfate	8.5 lb/100 gal	C		

Purdue University

Pest Type	W Weed	W Weed	W Weed		
Pest Code	AMBEL	AMBEL	AMBEL		
Pest Scientific Name	Ambrosia artem>	Ambrosia artem>	Ambrosia artem>		
Pest Name	Common ragweed	Common ragweed	Common ragweed		
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean
Part Rated	PLOT P	PLOT P	PLOT P		
Rating Date	6/5/09	6/17/09	7/28/09	11/6/09	11/6/09
Rating Type	CONTRO	CONTRO	CONTRO	YIELD	YIELD
Rating Unit	%	%	%	LB	BU
Sample Size, Unit					
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	V1	V1	R2	Mature	Mature
Crop Stage Minimum/Maximum	2-4"	4-8"	24-36"		
Pest Stage Majority	2-4 NOD	VEG	VEG		
Pest Stage Minimum/Maximum	1-4"	3-7"	6-20"		
Pest Density, Unit	6 YD2	3 YD2	3 YD2		
Footnote Number					
Assessed By	GK CB	GK CB	MK JD	PM	PM
Rating Timing					
Days After First/Last Applic.	31 31	43 43	84 28	185 129	185 129
Trt-Eval Interval					
Plant-Eval Interval	-21 DP-1	-9 DP-1	32 DP-1	133 DP-1	133 DP-1
Days After Emergence	5 DE-1	17 DE-	58 DE-	159 DE	159 DE
Number of Decimals					1
Trt No.	Treatment Name	Rate	Unit	Appl Code	
					11 17 22 25 26
9	Sharpen	0.0223	lb ai/a	A	94.8 a
	Roundup PowerMAX	0.77	lb ae/a	A	84.8 a
	Ammonium Sulfate	8.5	lb/100 gal	A	100.0 a
	Roundup PowerMAX	0.77	lb ae/a	B	21.88 a
	Ammonium Sulfate	8.5	lb/100 gal	B	63.5 a
	Roundup PowerMAX	0.77	lb ae/a	C	
	Ammonium Sulfate	8.5	lb/100 gal	C	
10	Gramoxone Inteon	0.625	lb ai/a	A	85.0 a
	NIS	0.25	% v/v	A	75.0 a
	Roundup PowerMAX	0.77	lb ae/a	B	97.5 a
	Ammonium Sulfate	8.5	lb/100 gal	B	22.48 a
	Roundup PowerMAX	0.77	lb ae/a	C	65.3 a
	Ammonium Sulfate	8.5	lb/100 gal	C	
11	Gramoxone Inteon	0.625	lb ai/a	A	97.0 a
	2,4-D Ester	0.5	lb ae/a	A	92.5 a
	Roundup PowerMAX	0.77	lb ae/a	B	100.0 a
	Ammonium Sulfate	8.5	lb/100 gal	B	23.53 a
	Roundup PowerMAX	0.77	lb ae/a	C	68.3 a
	Ammonium Sulfate	8.5	lb/100 gal	C	

Purdue University

Pest Type	W Weed	W Weed	W Weed		
Pest Code	AMBEL	AMBEL	AMBEL		
Pest Scientific Name	Ambrosia artem>	Ambrosia artem>	Ambrosia artem>		
Pest Name	Common ragweed	Common ragweed	Common ragweed		
Crop Code	GLXMA	GLXMA	GLXMA	GLXMA	GLXMA
Crop Scientific Name	Glycine max	Glycine max	Glycine max	Glycine max	Glycine max
Crop Name	Soybean	Soybean	Soybean	Soybean	Soybean
Part Rated	PLOT P	PLOT P	PLOT P		
Rating Date	6/5/09	6/17/09	7/28/09	11/6/09	11/6/09
Rating Type	CONTRO	CONTRO	CONTRO	YIELD	YIELD
Rating Unit	%	%	%	LB	BU
Sample Size, Unit					
Number of Subsamples	1	1	1	1	1
Crop Stage Majority	V1	V1	R2	Mature	Mature
Crop Stage Minimum/Maximum	2-4"	4-8"	24-36"		
Pest Stage Majority	2-4 NOD	VEG	VEG		
Pest Stage Minimum/Maximum	1-4"	3-7"	6-20"		
Pest Density, Unit	6 YD2	3 YD2	3 YD2		
Footnote Number					
Assessed By	GK CB	GK CB	MK JD	PM	PM
Rating Timing					
Days After First/Last Applic.	31 31	43 43	84 28	185 129	185 129
Trt-Eval Interval					
Plant-Eval Interval	-21 DP-1	-9 DP-1	32 DP-1	133 DP-1	133 DP-1
Days After Emergence	5 DE-1	17 DE-	58 DE-	159 DE	159 DE
Number of Decimals					1
Trt No.	Treatment Name	Rate	Unit	Appl Code	
		11			17
		22			25
		26			
12	Roundup PowerMAX	0.77	lb ae/a	A	96.8 a
	2,4-D Ester	0.5	lb ae/a	A	93.0 a
	Ammonium Sulfate	8.5	lb/100 gal	A	100.0 a
	Roundup PowerMAX	0.77	lb ae/a	B	22.10 a
	Ammonium Sulfate	8.5	lb/100 gal	B	64.2 a
	Roundup PowerMAX	0.77	lb ae/a	C	
	Ammonium Sulfate	8.5	lb/100 gal	C	
LSD (P=.05)		10.50			21.01
Standard Deviation		7.27			14.55
CV		8.51			18.09
Bartlett's X2		27.361			38.837
P(Bartlett's X2)		0.002*			0.001*
Replicate F		1.740			1.277
Replicate Prob(F)		0.1780			0.2983
Treatment F		56.110			13.339
Treatment Prob(F)		0.0001			0.0001
					0.818
					3.858
					0.4931
					1418.093
					5.383
					5.383
					0.0001
					0.0001
					0.0001
					0.0001
					2.655
					1.838
					8.55
					26.179
					0.006*
					3.857
					0.0180
					5.383
					0.0001
					0.0001
					0.0001
					0.0001