

# Purdue University Weed Science

## Fall and Fall fb Spring Burndown Programs for Glyphosate-Resistant Marestail in Soybean

Trial ID: 13F-SEP-NTS-03      Location: SEPAC      Trial Year:  
 Protocol ID: 13F-SEP-NTS-03      Investigator: Dr. Bill Johnson  
 Project ID: DEM-AWC-SoyFallBurndown      Study Director: Joe Ikley  
 Sponsor Contact: BASF - Gery Welker

### 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:** 11/5/2013  
**Completion Date:** 7/22/2014

### 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 Soybean  
**Variety:** Pioneer P35T58R  
**Description:** RR, Kixor-Tolerant  
**Planting Date:** 5/27/2014  
**Planting Rate, Unit:** 140000 S/A      **Planting Method:** DIRDRI direct drilled  
**Depth, Unit:** 1.5 IN      **Planting Equipment:** PP Plot Planter  
**Row Spacing, Unit:** 30 IN      **Emergence Date:** 5/31/2014  
**Soil Temperature, Unit:** 80 F  
**Soil Moisture:** WET      wet

### Pest Description

**Pest 1 Type:** W      **Code:** ERICA Conyza canadensis  
**Common Name:** Canada horseweed  
**Description:** GLYPHOSATE-RESISTANT

**Pest 2 Type:** W      **Code:** ALLVI Allium vineale  
**Common Name:** Wild garlic

**Pest 3 Type:** W      **Code:** AMBEL Ambrosia artemisiifolia  
**Common Name:** Common ragweed

**Pest 4 Type:** W      **Code:** SETFA Setaria faberi  
**Common Name:** Giant foxtail

### Site and Design

**Treated Plot Width:** 10 FT      **Site Type:** FIELD field  
**Treated Plot Length:** 30 FT      **Experimental Unit:** 1 PLOT plot  
**Treated Plot Area:** 300 FT<sup>2</sup>      **Treatments:** 30      **Tillage Type:** NOTILL no-till  
**Replications:** 4      **Study Design:** RACOB� Randomized Complete Block (RCB)

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## Soil Description

**Description Name:** SEPAC-Field U4  
**% Sand:** 20      **% OM:** 1.8      **Texture:** SIL silt loam  
**% Silt:** 65      **pH:** 5.6      **Soil Name:** Avonburg  
**% Clay:** 15      **CEC:** 6.7      **Fert. Level:** G good  
**Soil Drainage:** P poor

## Application Description

	A	B	C	D
<b>Application Date:</b>	11/5/2013	5/1/2014	5/8/2014	5/27/2014
<b>Appl. Start Time:</b>	12:00	7:45	6:30	13:30
<b>Appl. Stop Time:</b>	1:00 PM	7:50 AM	7:15 AM	2:30 PM
<b>Application Method:</b>	SPRAY	SPRAY	SPRAY	SPRAY
<b>Application Timing:</b>	NOVEMB	14 DPP	7 DPP	PRE
<b>Application Placement:</b>	BROADC	BROADC	BROADC	BROADC
<b>Applied By:</b>	Devkota	Ikley	Legleiter	Campbell
<b>Air Temperature, Unit:</b>	58 F	47 F	67 F	87 F
<b>% Relative Humidity:</b>	54	79	70	44
<b>Wind Velocity, Unit:</b>	5 MPH	3 MPH	3 MPH	3 MPH
<b>Wind Direction:</b>	S	SW	S	WSW
<b>Dew Presence (Y/N):</b>	N no	Y yes	N no	N no
<b>Soil Temperature, Unit:</b>	56 F	56 F	64 F	82 F
<b>Soil Moisture:</b>	WET	WET	DRY	WET
<b>% Cloud Cover:</b>	90	100	30	90

## Crop Stage At Each Application

	A	B	C	D
<b>Crop 1 Code, BBCH Scale:</b>	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY	GLXMA BSOY
<b>Stage Scale Used:</b>	BBCH	BBCH	BBCH	

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Pest Stage At Each Application				
	A	B	C	D
<b>Pest 1 Code, Type, Scale:</b>	ERICA W	ERICA W	ERICA W	ERICA W
<b>Stage Majority, Percent:</b>	13			18
<b>Stage Minimum, Percent:</b>	11			17
<b>Stage Maximum, Percent:</b>	19			19
<b>Diameter, Unit:</b>	4.5 IN			
<b>Height, Unit:</b>				3.5 IN
<b>Height Minimum, Maximum:</b>				2 5
<b>Density, Unit:</b>	70 YD2			25 YD2
<b>Pest 2 Code, Type, Scale:</b>	ALLVI W	ALLVI W	ALLVI W	ALLVI W
<b>Stage Majority, Percent:</b>	12	13	15	
<b>Stage Minimum, Percent:</b>	11	12	13	
<b>Stage Maximum, Percent:</b>	14	15	17	
<b>Height, Unit:</b>	5.5 IN	6.5 IN	11 IN	
<b>Height Minimum, Maximum:</b>	3 8	3 10	4 18	
<b>Density, Unit:</b>	45 YD2	60 YD2	60 YD2	
<b>Pest 3 Code, Type, Scale:</b>	AMBEL W	AMBEL W	AMBEL W	AMBEL W
<b>Stage Majority, Percent:</b>		12	13	17
<b>Stage Minimum, Percent:</b>		10	11	15
<b>Stage Maximum, Percent:</b>		13	14	19
<b>Height, Unit:</b>		1.5 IN	2.5 IN	5 IN
<b>Height Minimum, Maximum:</b>		0.5 2	1 4	2 8
<b>Density, Unit:</b>		75 YD2	75 YD2	75 YD2
<b>Pest 4 Code, Type, Scale:</b>	SETFA W	SETFA W	SETFA W	SETFA W
<b>Stage Majority, Percent:</b>			13	14
<b>Stage Minimum, Percent:</b>			12	12
<b>Stage Maximum, Percent:</b>			15	15
<b>Height, Unit:</b>			1.5 IN	4.5 IN
<b>Height Minimum, Maximum:</b>			1 2	2 7
<b>Density, Unit:</b>			60 YD2	180 YD2

## Purdue University Weed Science

Application Equipment				
	A	B	C	D
<b>Appl. Equipment:</b>	CO2 Backpack	CO2 Backpack	CO2 Backpack	CO2 Backpack
<b>Equipment Type:</b>	SPRBAC	SPRBAC	SPRBAC	SPRBAC
<b>Operation Pressure, Unit:</b>	18 PSI	18 PSI	18 PSI	18 PSI
<b>Nozzle Type:</b>	Flat Fan	Flat Fan	Flat Fan	Flat Fan
<b>Nozzle Size:</b>	XR11002	XR11002	XR11002	XR11002
<b>Nozzle Spacing, Unit:</b>	15 IN	15 IN	15 IN	15 IN
<b>Nozzles/Row:</b>	8	6	6	6
<b>Boom Length, Unit:</b>	10 FT	7.5 FT	7.5 FT	7.5 FT
<b>Boom Height, Unit:</b>	18 IN	18 IN	18 IN	18 IN
<b>Ground Speed, Unit:</b>	3 MPH	3 MPH	3 MPH	3 MPH
<b>Carrier:</b>	H2O	H2O	H2O	H2O
<b>Water Hardness (ppm CaCO3):</b>	150	150	150	150
<b>Spray Volume, Unit:</b>	15 GAL/AC	15 GAL/AC	15 GAL/AC	15 GAL/AC
<b>Mix Size, Unit:</b>	1.8 Liters	1.8 Liters	1.8 Liters	1.8 Liters
<b>Propellant:</b>	CO2	CO2	CO2	CO2
<b>Tank Mix (Y/N):</b>	N no	N no	N no	N no

### Trial Comments

Treatment 7 did not have sharpen in the tank during the original fall burndown. Sharpen + MSO + AMS was applied on 11/26/13 on 4-8" tall ALLVI.

Plot 909 was sprayed twice on 5/8/14. It received treatments 2 and 12.

Plot 709 was not sprayed on 5/8/14.

Entire study was oversprayed with 1 QT Roundup Powermax on 6/25/14 to remove grass and undesired broadleaf targets. Only ERICA was rated after this application.

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 Project ID: DEM-AWC-SoyFallBurndown      Study Director: Joe Ikley  
    Sponsor Contact: BASF - Gery Welker

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	Appl Code	Appl Description	Amt Product to Measure	Rep 1	2	3	4
1	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL	20.62 ml/mx	101	308	706	810
	N-PAK AMS	3.4 LBA/GAL	SL		2.5 % v/v		A	FALL	45.0 ml/mx				
	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		C	7 DPP	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a		C	7 DPP	30.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		C	7 DPP	45.0 ml/mx				
2	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL	20.62 ml/mx	102	307	705	809
	N-PAK AMS	3.4 LBA/GAL	SL		2.5 % v/v		A	FALL	45.0 ml/mx				
	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		C	7 DPP	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a		C	7 DPP	30.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		C	7 DPP	45.0 ml/mx				
	FIREZONE - MSO	100 %	SL		1 % v/v		C	7 DPP	18.0 ml/mx				
	OPTILL	68 %	WG		2 oz/a		C	7 DPP	1.797 g/mx				
OUTLOOK	6 LB/GAL	EC		10 fl oz/a		C	7 DPP	9.375 ml/mx					
3	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		A	FALL	15.0 ml/mx	103	404	712	1006
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL	20.62 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		A	FALL	45.0 ml/mx				
	SHARPEN	2.85 LB/GAL	CS		2 fl oz/a		D	PRE	1.875 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a		D	PRE	30.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		D	PRE	45.0 ml/mx				
	FIREZONE - MSO	100 %	SL		1 % v/v		D	PRE	18.0 ml/mx				
4	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		A	FALL	15.0 ml/mx	104	403	711	1005
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL	20.62 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		A	FALL	45.0 ml/mx				
	OPTILL	68 %	WG		2 oz/a		D	PRE	1.797 g/mx				
	OUTLOOK	6 LB/GAL	EC		10 fl oz/a		D	PRE	9.375 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a		D	PRE	30.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		D	PRE	45.0 ml/mx				
	FIREZONE - MSO	100 %	SL		1 % v/v		D	PRE	18.0 ml/mx				
5	ZIDUA	85 %	WG		2 oz/a		A	FALL	1.797 g/mx	105	405	611	812
	DISTINCT	76.3 %	WG		3 oz/a		A	FALL	2.696 g/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL	20.62 ml/mx				
	NIS	100 %	SL		0.25 % v/v		A	FALL	4.5 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		A	FALL	45.0 ml/mx				
	SHARPEN	2.85 LB/GAL	CS		2 fl oz/a		D	PRE	1.875 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a		D	PRE	30.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		D	PRE	45.0 ml/mx				
FIREZONE - MSO	100 %	SL		1 % v/v		D	PRE	18.0 ml/mx					
6	ZIDUA	85 %	WG		2 oz/a		A	FALL	1.797 g/mx	106	406	612	811
	DISTINCT	76.3 %	WG		3 oz/a		A	FALL	2.696 g/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL	20.62 ml/mx				
	NIS	100 %	SL		0.25 % v/v		A	FALL	4.5 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		A	FALL	45.0 ml/mx				
	OPTILL	68 %	WG		2 oz/a		D	PRE	1.797 g/mx				
	OUTLOOK	6 LB/GAL	EC		10 fl oz/a		D	PRE	9.375 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a		D	PRE	30.0 ml/mx				
N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		D	PRE	45.0 ml/mx					
FIREZONE - MSO	100 %	SL		1 % v/v		D	PRE	18.0 ml/mx					
7	ZIDUA	85 %	WG		2 oz/a		A	FALL	1.797 g/mx	107	507	608	808
	SHARPEN	2.85 LB/GAL	CS		1 fl oz/a		A	FALL	0.9375 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL	20.62 ml/mx				
	FIREZONE - MSO	100 %	SL		1 % v/v		A	FALL	18.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		A	FALL	45.0 ml/mx				
	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		C	7 DPP	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a		C	7 DPP	30.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		C	7 DPP	45.0 ml/mx				
	FIREZONE - MSO	100 %	SL		1 % v/v		C	7 DPP	18.0 ml/mx				
	OPTILL	68 %	WG		2 oz/a		C	7 DPP	1.797 g/mx				
OUTLOOK	6 LB/GAL	EC		10 fl oz/a		C	7 DPP	9.375 ml/mx					

# Purdue University Weed Science

 Reps: 4  
 Spray vol: 15 gal/ac

 Plots: 10 by 30 feet  
 Mix size: 1.8 liters (min 1.5642)

Trt No.	Treatment Name	Form Conc	Form Unit	Type	Rate	Rate Unit	Appl Code	Appl Description	Amt Product to Measure	Rep 1	2	3	4
8	ZIDUA	85 %		WG	2 oz/a		A	FALL	1.797 g/mx	108	508	607	807
	SHARPEN	2.85 LB/GAL		CS	1 fl oz/a		A	FALL	0.9375 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	22 fl oz/a		A	FALL	20.62 ml/mx				
	FIREZONE - MSO	100 %		SL	1 % v/v		A	FALL	18.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		SL	8.5 lb ai/100 gal		A	FALL	45.0 ml/mx				
	SHARPEN	2.85 LB/GAL		CS	1 fl oz/a		C	7 DPP	0.9375 ml/mx				
	2,4-D LV4	4 LBAE/GAL		L	16 fl oz/a		C	7 DPP	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	32 fl oz/a		C	7 DPP	30.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		SL	8.5 lb ai/100 gal		C	7 DPP	45.0 ml/mx				
	FIREZONE - MSO	100 %		SL	1 % v/v		C	7 DPP	18.0 ml/mx				
9	2,4-D LV4	4 LBAE/GAL		L	16 fl oz/a		A	FALL	15.0 ml/mx	109	501	805	911
	DISTINCT	76.3 %		WG	2 oz/a		A	FALL	1.797 g/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	22 fl oz/a		A	FALL	20.62 ml/mx				
	NIS	100 %		SL	0.25 % v/v		A	FALL	4.5 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		SL	8.5 lb ai/100 gal		A	FALL	45.0 ml/mx				
	OPTILL	68 %		WG	2 oz/a		D	PRE	1.797 g/mx				
	OUTLOOK	6 LB/GAL		EC	10 fl oz/a		D	PRE	9.375 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	32 fl oz/a		D	PRE	30.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		SL	8.5 lb ai/100 gal		D	PRE	45.0 ml/mx				
	FIREZONE - MSO	100 %		SL	1 % v/v		D	PRE	18.0 ml/mx				
10	2,4-D LV4	4 LBAE/GAL		L	16 fl oz/a		A	FALL	15.0 ml/mx	110	502	806	912
	DISTINCT	76.3 %		WG	2 oz/a		A	FALL	1.797 g/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	22 fl oz/a		A	FALL	20.62 ml/mx				
	NIS	100 %		SL	0.25 % v/v		A	FALL	4.5 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		SL	8.5 lb ai/100 gal		A	FALL	45.0 ml/mx				
	ZIDUA	85 %		WG	2 oz/a		D	PRE	1.797 g/mx				
	SHARPEN	2.85 LB/GAL		CS	1 fl oz/a		D	PRE	0.9375 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	32 fl oz/a		D	PRE	30.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		SL	8.5 lb ai/100 gal		D	PRE	45.0 ml/mx				
	FIREZONE - MSO	100 %		SL	1 % v/v		D	PRE	18.0 ml/mx				
11	SHARPEN	2.85 LB/GAL		CS	2 fl oz/a		A	FALL	1.875 ml/mx	111	311	610	910
	2,4-D LV4	4 LBAE/GAL		L	16 fl oz/a		A	FALL	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	22 fl oz/a		A	FALL	20.62 ml/mx				
	FIREZONE - MSO	100 %		SL	1 % v/v		A	FALL	18.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		SL	8.5 lb ai/100 gal		A	FALL	45.0 ml/mx				
	OPTILL	68 %		WG	2 oz/a		D	PRE	1.797 g/mx				
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	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	32 fl oz/a		D	PRE	30.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		SL	8.5 lb ai/100 gal		D	PRE	45.0 ml/mx				
	FIREZONE - MSO	100 %		SL	1 % v/v		D	PRE	18.0 ml/mx				
12	SHARPEN	2.85 LB/GAL		CS	2 fl oz/a		A	FALL	1.875 ml/mx	112	312	609	909
	2,4-D LV4	4 LBAE/GAL		L	16 fl oz/a		A	FALL	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	22 fl oz/a		A	FALL	20.62 ml/mx				
	FIREZONE - MSO	100 %		SL	1 % v/v		A	FALL	18.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		SL	8.5 lb ai/100 gal		A	FALL	45.0 ml/mx				
	ZIDUA	85 %		WG	2 oz/a		D	PRE	1.797 g/mx				
	SHARPEN	2.85 LB/GAL		CS	1 fl oz/a		D	PRE	0.9375 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	32 fl oz/a		D	PRE	30.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		SL	8.5 lb ai/100 gal		D	PRE	45.0 ml/mx				
	FIREZONE - MSO	100 %		SL	1 % v/v		D	PRE	18.0 ml/mx				
13	SHARPEN	2.85 LB/GAL		CS	2 fl oz/a		A	FALL	1.875 ml/mx	201	410	601	901
	SENCOR	75 %		WG	10 oz/a		A	FALL	8.987 g/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	22 fl oz/a		A	FALL	20.62 ml/mx				
	FIREZONE - MSO	100 %		SL	1 % v/v		A	FALL	18.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		SL	8.5 lb ai/100 gal		A	FALL	45.0 ml/mx				
	OPTILL	68 %		WG	2 oz/a		D	PRE	1.797 g/mx				
	OUTLOOK	6 LB/GAL		EC	10 fl oz/a		D	PRE	9.375 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	32 fl oz/a		D	PRE	30.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		SL	8.5 lb ai/100 gal		D	PRE	45.0 ml/mx				
	FIREZONE - MSO	100 %		SL	1 % v/v		D	PRE	18.0 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 Unit	Type	Rate	Rate Unit	Appl Code	Appl Description	Amt Product to Measure	Rep 1	2	3	4
14	SHARPEN	2.85 LB/GAL		CS	2 fl oz/a		A	FALL	1.875 ml/mx	202	409	602	902
	SENCOR	75 %		WG	10 oz/a		A	FALL	8.987 g/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	22 fl oz/a		A	FALL	20.62 ml/mx				
	FIREZONE - MSO	100 %		SL	1 % v/v		A	FALL	18.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		SL	8.5 lb ai/100 gal		A	FALL	45.0 ml/mx				
	ZIDUA	85 %		WG	2 oz/a		D	PRE	1.797 g/mx				
	SHARPEN	2.85 LB/GAL		CS	1 fl oz/a		D	PRE	0.9375 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		SL	32 fl oz/a		D	PRE	30.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		SL	8.5 lb ai/100 gal		D	PRE	45.0 ml/mx				
FIREZONE - MSO	100 %		SL	1 % v/v		D	PRE	18.0 ml/mx					
15	BASIS BLEND @ 0.825 OZ						A	FALL		203	408	603	1003
	RESOLVE	25 %		DF	0.165 oz ai/a		A	FALL	0.5931 g/mx				
	HARMONY SG	50 %		SG	0.0825 oz ai/a		A	FALL	0.1483 g/mx				
	CANOPY EX @ 2 OZ						A	FALL					
	CLASSIC	25 %		WG	0.454 oz ai/a		A	FALL	1.632 g/mx				
	EXPRESS	50 %		SG	0.136 oz ai/a		A	FALL	0.2444 g/mx				
	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		A	FALL	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL	20.62 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		A	FALL	45.0 ml/mx				
	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		C	7 DPP	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a		C	7 DPP	30.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		C	7 DPP	45.0 ml/mx				
16	BASIS BLEND @ 0.825 OZ						A	FALL		204	407	604	1004
	RESOLVE	25 %		DF	0.165 oz ai/a		A	FALL	0.5931 g/mx				
	HARMONY SG	50 %		SG	0.0825 oz ai/a		A	FALL	0.1483 g/mx				
	CANOPY EX @ 2 OZ						A	FALL					
	CLASSIC	25 %		WG	0.454 oz ai/a		A	FALL	1.632 g/mx				
	EXPRESS	50 %		SG	0.136 oz ai/a		A	FALL	0.2444 g/mx				
	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		A	FALL	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL	20.62 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		A	FALL	45.0 ml/mx				
	SHARPEN	2.85 LB/GAL	CS		1 fl oz/a		D	PRE	0.9375 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a		D	PRE	30.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		D	PRE	45.0 ml/mx				
FIREZONE - MSO	100 %		SL	1 % v/v		D	PRE	18.0 ml/mx					
17	AUTHORITY MTZ	45 %		WG	12 oz/a		A	FALL	10.78 g/mx	205	510	707	1011
	WEEDMASTER @ 1.5 PT						A	FALL					
	CLARITY	4 LBAE/GAL	L		0.1875 lb ae/a		A	FALL	5.624 ml/mx				
	2,4-D LV4	4 LBAE/GAL	L		0.53813 lb ae/a		A	FALL	16.14 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL	20.62 ml/mx				
	COC	100 %		SL	1 % v/v		A	FALL	18.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		A	FALL	45.0 ml/mx				
	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		C	7 DPP	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a		C	7 DPP	30.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		C	7 DPP	45.0 ml/mx				
18	AUTHORITY MTZ	45 %		WG	12 oz/a		A	FALL	10.78 g/mx	206	509	708	1012
	WEEDMASTER @ 1.5 PT						A	FALL					
	CLARITY	4 LBAE/GAL	L		0.1875 lb ae/a		A	FALL	5.624 ml/mx				
	2,4-D LV4	4 LBAE/GAL	L		0.53813 lb ae/a		A	FALL	16.14 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL	20.62 ml/mx				
	COC	100 %		SL	1 % v/v		A	FALL	18.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		A	FALL	45.0 ml/mx				
	SHARPEN	2.85 LB/GAL	CS		1 fl oz/a		D	PRE	0.9375 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a		D	PRE	30.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		D	PRE	45.0 ml/mx				
FIREZONE - MSO	100 %		SL	1 % v/v		D	PRE	18.0 ml/mx					
19	VALOR XLT @ 3 OZ						A	FALL		207	401	701	1002
	VALOR SX	51 %		WG	1.77 oz/a		A	FALL	1.591 g/mx				
	CLASSIC	25 %		WG	1.24 oz/a		A	FALL	1.114 g/mx				
	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		A	FALL	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL	20.62 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		A	FALL	45.0 ml/mx				
	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		C	7 DPP	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a		C	7 DPP	30.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		C	7 DPP	45.0 ml/mx				

# Purdue University Weed Science

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	Appl Code	Appl Description	Amt Product to Measure	Rep 1	2	3	4
20	VALOR XLT @ 3 OZ						A	FALL		208	402	702	1001
	VALOR SX	51 %		WG	1.77 oz/a		A	FALL	1.591 g/mx				
	CLASSIC	25 %		WG	1.24 oz/a		A	FALL	1.114 g/mx				
	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		A	FALL	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL	20.62 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		A	FALL	45.0 ml/mx				
	SHARPEN	2.85 LB/GAL	CS		1 fl oz/a		D	PRE	0.9375 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a		D	PRE	30.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		D	PRE	45.0 ml/mx				
FIREZONE - MSO	100 %		SL	1 % v/v		D	PRE	18.0 ml/mx					
21	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL	20.62 ml/mx	209	411	703	904
	N-PAK AMS	3.4 LBA/GAL	SL		2.5 % v/v		A	FALL	45.0 ml/mx				
	ZIDUA	85 %		WG	2 oz/a		B	14 DPP	1.797 g/mx				
	SHARPEN	2.85 LB/GAL	CS		2 fl oz/a		B	14 DPP	1.875 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a		B	14 DPP	30.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		B	14 DPP	45.0 ml/mx				
	FIREZONE - MSO	100 %		SL	1 % v/v		B	14 DPP	18.0 ml/mx				
22	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL	20.62 ml/mx	210	412	704	903
	N-PAK AMS	3.4 LBA/GAL	SL		2.5 % v/v		A	FALL	45.0 ml/mx				
	ZIDUA	85 %		WG	2 oz/a		D	PRE	1.797 g/mx				
	SHARPEN	2.85 LB/GAL	CS		1 fl oz/a		D	PRE	0.9375 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		32 fl oz/a		D	PRE	30.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		D	PRE	45.0 ml/mx				
	FIREZONE - MSO	100 %		SL	1 % v/v		D	PRE	18.0 ml/mx				
23	Untreated Check						A	FALL		211	503	804	907
	VALOR XLT @ 3 OZ						C	7 DPP					
	VALOR SX			WG	1.77 oz/a		C	7 DPP	1.591 g/mx				
	CLASSIC	25 %		WG	1.24 oz/a		C	7 DPP	1.114 g/mx				
	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		C	7 DPP	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		C	7 DPP	20.62 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		C	7 DPP	45.0 ml/mx				
	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		A	FALL	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL	20.62 ml/mx				
N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		A	FALL	45.0 ml/mx					
24	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		A	FALL	15.0 ml/mx	212	505	803	908
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL	20.62 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		A	FALL	45.0 ml/mx				
	VALOR XLT @ 3 OZ						C	7 DPP					
	VALOR SX	51 %		WG	1.77 oz/a		C	7 DPP	1.591 g/mx				
	CLASSIC	25 %		WG	1.24 oz/a		C	7 DPP	1.114 g/mx				
	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		C	7 DPP	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		C	7 DPP	20.62 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		C	7 DPP	45.0 ml/mx				
25	BASIS BLEND @ 0.825 OZ						A	FALL		301	511	802	1008
	RESOLVE	25 %		DF	0.165 oz ai/a		A	FALL	0.5931 g/mx				
	HARMONY SG	50 %		SG	0.0825 oz ai/a		A	FALL	0.1483 g/mx				
	CANOPY EX @ 2 OZ						A	FALL					
	CLASSIC	25 %		WG	0.454 oz ai/a		A	FALL	1.632 g/mx				
	EXPRESS	50 %		SG	0.136 oz ai/a		A	FALL	0.2444 g/mx				
	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		A	FALL	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL	20.62 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		A	FALL	45.0 ml/mx				
	VALOR XLT @ 3 OZ						C	7 DPP					
	VALOR SX	51 %		WG	1.77 oz/a		C	7 DPP	1.591 g/mx				
	CLASSIC	25 %		WG	1.24 oz/a		C	7 DPP	1.114 g/mx				
	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		C	7 DPP	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		C	7 DPP	20.62 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		C	7 DPP	45.0 ml/mx				
26	AUTHORITY MTZ	45 %		WG	12 oz/a		A	FALL	10.78 g/mx	302	504	709	905
	WEEDMASTER @ 1.5 PT						A	FALL					
	CLARITY	4 LBAE/GAL	L		0.1875 lb ae/a		A	FALL	5.624 ml/mx				
	2,4-D LV4	4 LBAE/GAL	L		0.53813 lb ae/a		A	FALL	16.14 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL	20.62 ml/mx				
	COC	100 %		SL	1 % v/v		A	FALL	18.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		A	FALL	45.0 ml/mx				
	AUTHORITY XL	70 %		DF	4 oz/a		C	7 DPP	3.595 g/mx				
	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		C	7 DPP	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		C	7 DPP	20.62 ml/mx				
N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		C	7 DPP	45.0 ml/mx					



# Purdue University Weed Science

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	Form Rate	Rate Unit	Appl Code	Appl Description	Amt Product to Measure	Rep 1	2	3	4					
27	VALOR XLT @ 3 OZ						A	FALL		303	310	606	1009					
	VALOR SX	51 %		WG	1.77 oz/a		A	FALL	1.591 g/mx									
	CLASSIC	25 %		WG	1.24 oz/a		A	FALL	1.114 g/mx									
	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		A	FALL	15.0 ml/mx									
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL	20.62 ml/mx									
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		A	FALL	45.0 ml/mx									
	VALOR XLT @ 3 OZ						C	7 DPP										
	VALOR SX	51 %		WG	1.77 oz/a		C	7 DPP	1.591 g/mx									
	CLASSIC	25 %		WG	1.24 oz/a		C	7 DPP	1.114 g/mx									
	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		C	7 DPP	15.0 ml/mx									
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		C	7 DPP	20.62 ml/mx									
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		C	7 DPP	45.0 ml/mx									
	28	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL					20.62 ml/mx	304	506	710	906
		N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		A	FALL					45.0 ml/mx				
ROUNDUP POWERMAX		4.5 LBAE/GAL	SL		22 fl oz/a		D	PRE	20.62 ml/mx									
N-PAK AMS		3.4 LBA/GAL	SL		8.5 lb ai/100 gal		D	PRE	45.0 ml/mx									
29	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL	20.62 ml/mx	305	512	801	1007					
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		A	FALL	45.0 ml/mx									
	GRAMOXONE SL	2 LBAE/GAL	SL		3.5 pt/a		C	7 DPP	52.49 ml/mx									
	SENCOR	75 %		WG	10 oz/a		C	7 DPP	8.987 g/mx									
	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		C	7 DPP	15.0 ml/mx									
	COC	100 %		SL	1 % v/v		C	7 DPP	18.0 ml/mx									
30	VALOR XLT @ 3 OZ						A	FALL		306	309	605	1010					
	VALOR SX	51 %		WG	1.77 oz/a		A	FALL	1.591 g/mx									
	CLASSIC	25 %		WG	1.24 oz/a		A	FALL	1.114 g/mx									
	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		A	FALL	15.0 ml/mx									
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a		A	FALL	20.62 ml/mx									
	N-PAK AMS	3.4 LBA/GAL	SL		8.5 lb ai/100 gal		A	FALL	45.0 ml/mx									
	GRAMOXONE SL	2 LBAE/GAL	SL		3.5 pt/a		C	7 DPP	52.49 ml/mx									
	SENCOR	75 %		WG	10 oz/a		C	7 DPP	8.987 g/mx									
	2,4-D LV4	4 LBAE/GAL	L		16 fl oz/a		C	7 DPP	15.0 ml/mx									
	COC	100 %		SL	1 % v/v		C	7 DPP	18.0 ml/mx									

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
1,381.874	ml	ROUNDUP POWERMAX	4.5	SL	
2,564.722	ml	N-PAK AMS	3.4	SL	
468.426	ml	2,4-D LV4	4	L	
431.953	ml	FIREZONE - MSO	100	SL	
12.582	g	OPTILL	68	WG	
65.625	ml	OUTLOOK	6	EC	
22.500	ml	SHARPEN	2.85	CS	
16.177	g	ZIDUA	85	WG	
8.987	g	DISTINCT	76.3	WG	
17.998	ml	NIS	100	SL	
35.948	g	SENCOR	75	WG	
1.779	g	RESOLVE	25	DF	
0.445	g	HARMONY SG	50	SG	
13.811	g	CLASSIC	25	WG	
0.733	g	EXPRESS	50	SG	
32.353	g	AUTHORITY MTZ	45	WG	
16.873	ml	CLARITY	4	L	
89.990	ml	COC	100	SL	
12.726	g	VALOR SX	51	WG	
3.595	g	AUTHORITY XL	70	DF	
104.989	ml	GRAMOXONE SL	2	SL	

## Purdue University Weed Science

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

\* '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.

# Purdue University Weed Science

## Fall and Fall fb Spring Burndown Programs for Glyphosate-Resistant Marestail in Soybean

Trial ID: 13F-SEP-NTS-03      Location: SEPAC      Trial Year:  
 Protocol ID: 13F-SEP-NTS-03      Investigator: Dr. Bill Johnson  
 Project ID: DEM-AWC-SoyFallBurndown      Study Director: Joe Ikley  
 Sponsor Contact: BASF - Gery Welker

Pest Type	W Weed	W Weed	W Weed	W Weed		
Pest Code	ERICA	ERICA	ALLVI	ERICA		
Pest Scientific Name	Conyza canadensis	Conyza canadensis	Allium vineale	Conyza canadensis		
Pest Name	Canada horseweed	Canada horseweed	Wild garlic	Canada horseweed		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	11/19/2013	4/24/2014	4/24/2014	5/27/2014		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%		
Days After First/Last Applic.	14 14	170 170	170 170	203 19		
Trt-Eval Interval	14 DA-A	170 DA-A	170 DA-A	0 DA-D		
ARM Action Codes	P	P	P	P		
Number of Decimals	0	0	0	0		
Trt Treatment	Rate	Appl	1	2	3	4
No. Name	Rate Unit	Code Plot				
1 ROUNDUP POWERMAX	22 fl oz/a	A 101	10	100	80	99
N-PAK AMS	2.5 % v/v	A 308	5	100	50	75
2,4-D LV4	16 fl oz/a	C 706	20	95	65	100
ROUNDUP POWERMAX	32 fl oz/a	C 810	10	100	30	100
N-PAK AMS	8.5 lb ai/100 gal	C				
Mean =			11	99	56	94
2 ROUNDUP POWERMAX	22 fl oz/a	A 102	10	100	80	99
N-PAK AMS	2.5 % v/v	A 307	10	100	70	80
2,4-D LV4	16 fl oz/a	C 705	10	100	70	100
ROUNDUP POWERMAX	32 fl oz/a	C 809	5	100	30	95
N-PAK AMS	8.5 lb ai/100 gal	C				
FIREZONE - MSO	1 % v/v	C				
OPTILL	2 oz/a	C				
OUTLOOK	10 fl oz/a	C				
Mean =			9	100	63	94
3 2,4-D LV4	16 fl oz/a	A 103	20	100	90	0
ROUNDUP POWERMAX	22 fl oz/a	A 404	20	100	100	0
N-PAK AMS	8.5 lb ai/100 gal	A 712	20	95	20	0
SHARPEN	2 fl oz/a	D 1006	25	100	100	0
ROUNDUP POWERMAX	32 fl oz/a	D				
N-PAK AMS	8.5 lb ai/100 gal	D				
FIREZONE - MSO	1 % v/v	D				
Mean =			21	99	78	0
4 2,4-D LV4	16 fl oz/a	A 104	30	100	90	0
ROUNDUP POWERMAX	22 fl oz/a	A 403	10	100	100	0*
N-PAK AMS	8.5 lb ai/100 gal	A 711	0	100	40	0
OPTILL	2 oz/a	D 1005	10	100	100	0
OUTLOOK	10 fl oz/a	D				
ROUNDUP POWERMAX	32 fl oz/a	D				
N-PAK AMS	8.5 lb ai/100 gal	D				
FIREZONE - MSO	1 % v/v	D				
Mean =			13	100	83	0
5 ZIDUA	2 oz/a	A 105	40	100	90	0
DISTINCT	3 oz/a	A 405	30	100	90	0
ROUNDUP POWERMAX	22 fl oz/a	A 611	5	100	70	0
NIS	0.25 % v/v	A 812	20	100	60	0*
N-PAK AMS	8.5 lb ai/100 gal	A				
SHARPEN	2 fl oz/a	D				
ROUNDUP POWERMAX	32 fl oz/a	D				
N-PAK AMS	8.5 lb ai/100 gal	D				
FIREZONE - MSO	1 % v/v	D				
Mean =			24	100	78	0

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	ERICA	ERICA	ALLVI	ERICA					
Pest Scientific Name	Conyza canadensis	Conyza canadensis	Allium vineale	Conyza canadensis					
Pest Name	Canada horseweed	Canada horseweed	Wild garlic	Canada horseweed					
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P					
Rating Date	11/19/2013	4/24/2014	4/24/2014	5/27/2014					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%					
Days After First/Last Applic.	14 14	170 170	170 170	203 19					
Trt-Eval Interval	14 DA-A	170 DA-A	170 DA-A	0 DA-D					
ARM Action Codes	P	P	P	P					
Number of Decimals	0	0	0	0					
Trt No.	Treatment Name	Rate	Unit	Appl Code	Plot	1	2	3	4
6	ZIDUA	2 oz/a		A	106	35	100	70	0
	DISTINCT	3 oz/a		A	406	30	100	90	0
	ROUNDUP POWERMAX	22 fl oz/a		A	612	10	100	30	0
	NIS	0.25 % v/v		A	811	20	90	30	0
	N-PAK AMS	8.5 lb ai/100 gal		A					
	OPTILL	2 oz/a		D					
	OUTLOOK	10 fl oz/a		D					
	ROUNDUP POWERMAX	32 fl oz/a		D					
	N-PAK AMS	8.5 lb ai/100 gal		D					
	FIREZONE - MSO	1 % v/v		D					
	Mean =					24	98	55	0
7	ZIDUA	2 oz/a		A	107	0	100	95	100
	SHARPEN	1 fl oz/a		A	507	50	95	100	100
	ROUNDUP POWERMAX	22 fl oz/a		A	608	10	100	100	100
	FIREZONE - MSO	1 % v/v		A	808	15	100	80	100
	N-PAK AMS	8.5 lb ai/100 gal		A					
	2,4-D LV4	16 fl oz/a		C					
	ROUNDUP POWERMAX	32 fl oz/a		C					
	N-PAK AMS	8.5 lb ai/100 gal		C					
	FIREZONE - MSO	1 % v/v		C					
	OPTILL	2 oz/a		C					
	OUTLOOK	10 fl oz/a		C					
	Mean =					19	99	94	100
8	ZIDUA	2 oz/a		A	108	75	100	80	100
	SHARPEN	1 fl oz/a		A	508	80	100	95	100
	ROUNDUP POWERMAX	22 fl oz/a		A	607	95	100	100	100
	FIREZONE - MSO	1 % v/v		A	807	95	100	50	100
	N-PAK AMS	8.5 lb ai/100 gal		A					
	SHARPEN	1 fl oz/a		C					
	2,4-D LV4	16 fl oz/a		C					
	ROUNDUP POWERMAX	32 fl oz/a		C					
	N-PAK AMS	8.5 lb ai/100 gal		C					
	FIREZONE - MSO	1 % v/v		C					
	Mean =					86	100	81	100
9	2,4-D LV4	16 fl oz/a		A	109	20	100	90	0
	DISTINCT	2 oz/a		A	501	30	100	100	0*
	ROUNDUP POWERMAX	22 fl oz/a		A	805	65	100	70	0
	NIS	0.25 % v/v		A	911	20	100	75	0
	N-PAK AMS	8.5 lb ai/100 gal		A					
	OPTILL	2 oz/a		D					
	OUTLOOK	10 fl oz/a		D					
	ROUNDUP POWERMAX	32 fl oz/a		D					
	N-PAK AMS	8.5 lb ai/100 gal		D					
	FIREZONE - MSO	1 % v/v		D					
	Mean =					34	100	84	0

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	ERICA	ERICA	ALLVI	ERICA					
Pest Scientific Name	Conyza canadensis	Conyza canadensis	Allium vineale	Conyza canadensis					
Pest Name	Canada horseweed	Canada horseweed	Wild garlic	Canada horseweed					
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P					
Rating Date	11/19/2013	4/24/2014	4/24/2014	5/27/2014					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%					
Days After First/Last Applic.	14 14	170 170	170 170	203 19					
Trt-Eval Interval	14 DA-A	170 DA-A	170 DA-A	0 DA-D					
ARM Action Codes	P	P	P	P					
Number of Decimals	0	0	0	0					
Trt No.	Treatment Name	Rate	Unit	Appl Code	Plot	1	2	3	4
10	2,4-D LV4	16 fl oz/a		A	110	25	100	90	0
	DISTINCT	2 oz/a		A	502	30	100	100	0*
	ROUNDUP POWERMAX	22 fl oz/a		A	806	70	80	80	0
	NIS	0.25 % v/v		A	912	10	100	85	0
	N-PAK AMS	8.5 lb ai/100 gal		A					
	ZIDUA	2 oz/a		D					
	SHARPEN	1 fl oz/a		D					
	ROUNDUP POWERMAX	32 fl oz/a		D					
	N-PAK AMS	8.5 lb ai/100 gal		D					
	FIREZONE - MSO	1 % v/v		D					
	Mean =					34	95	89	0
11	SHARPEN	2 fl oz/a		A	111	95	100	90	0
	2,4-D LV4	16 fl oz/a		A	311	75	100	80	0
	ROUNDUP POWERMAX	22 fl oz/a		A	610	100	100	80	5*
	FIREZONE - MSO	1 % v/v		A	910	40	100	80	0
	N-PAK AMS	8.5 lb ai/100 gal		A					
	OPTILL	2 oz/a		D					
	OUTLOOK	10 fl oz/a		D					
	ROUNDUP POWERMAX	32 fl oz/a		D					
	N-PAK AMS	8.5 lb ai/100 gal		D					
	FIREZONE - MSO	1 % v/v		D					
	Mean =					78	100	83	1
12	SHARPEN	2 fl oz/a		A	112	90	100	90	0
	2,4-D LV4	16 fl oz/a		A	312	80	100	60	0
	ROUNDUP POWERMAX	22 fl oz/a		A	609	90	100	80	100
	FIREZONE - MSO	1 % v/v		A	909	20	100	80	31*
	N-PAK AMS	8.5 lb ai/100 gal		A					
	ZIDUA	2 oz/a		D					
	SHARPEN	1 fl oz/a		D					
	ROUNDUP POWERMAX	32 fl oz/a		D					
	N-PAK AMS	8.5 lb ai/100 gal		D					
	FIREZONE - MSO	1 % v/v		D					
	Mean =					70	100	78	33
13	SHARPEN	2 fl oz/a		A	201	95	100	85	95
	SENCOR	10 oz/a		A	410	95	100	50	100
	ROUNDUP POWERMAX	22 fl oz/a		A	601	100	100	100	100
	FIREZONE - MSO	1 % v/v		A	901	99	100	95	100
	N-PAK AMS	8.5 lb ai/100 gal		A					
	OPTILL	2 oz/a		D					
	OUTLOOK	10 fl oz/a		D					
	ROUNDUP POWERMAX	32 fl oz/a		D					
	N-PAK AMS	8.5 lb ai/100 gal		D					
	FIREZONE - MSO	1 % v/v		D					
	Mean =					97	100	83	99

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	ERICA	ALLVI	ERICA
Pest Scientific Name	Conyza canadensis	Conyza canadensis	Allium vineale	Conyza canadensis
Pest Name	Canada horseweed	Canada horseweed	Wild garlic	Canada horseweed
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	11/19/2013	4/24/2014	4/24/2014	5/27/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Days After First/Last Applic.	14 14	170 170	170 170	203 19
Trt-Eval Interval	14 DA-A	170 DA-A	170 DA-A	0 DA-D
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	1	2
14 SHARPEN	2 fl oz/a	A 202	95	100
SENCOR	10 oz/a	A 409	90	100
ROUNDUP POWERMAX	22 fl oz/a	A 602	100	100
FIREZONE - MSO	1 % v/v	A 902	100	100
N-PAK AMS	8.5 lb ai/100 gal	A		
ZIDUA	2 oz/a	D		
SHARPEN	1 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
	Mean =		96	100
15 BASIS BLEND @ 0.825 OZ		A 203	15	100
RESOLVE	0.165 oz ai/a	A 408	10	100
HARMONY SG	0.0825 oz ai/a	A 603	5	100
CANOPY EX @ 2 OZ		A 1003	5	100
CLASSIC	0.454 oz ai/a	A		
EXPRESS	0.136 oz ai/a	A		
2,4-D LV4	16 fl oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
	Mean =		9	100
16 BASIS BLEND @ 0.825 OZ		A 204	10	100
RESOLVE	0.165 oz ai/a	A 407	20	100
HARMONY SG	0.0825 oz ai/a	A 604	15	100
CANOPY EX @ 2 OZ		A 1004	15	100
CLASSIC	0.454 oz ai/a	A		
EXPRESS	0.136 oz ai/a	A		
2,4-D LV4	16 fl oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
SHARPEN	1 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
	Mean =		15	100
17 AUTHORITY MTZ	12 oz/a	A 205	70	100
WEEDMASTER @ 1.5 PT		A 510	85	100
CLARITY	0.1875 lb ae/a	A 707	70	100
2,4-D LV4	0.53813 lb ae/a	A 1011	95	100
ROUNDUP POWERMAX	22 fl oz/a	A		
COC	1 % v/v	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
	Mean =		80	100
				91
				99

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	ERICA	ERICA	ALLVI	ERICA					
Pest Scientific Name	Conyza canadensis	Conyza canadensis	Allium vineale	Conyza canadensis					
Pest Name	Canada horseweed	Canada horseweed	Wild garlic	Canada horseweed					
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P					
Rating Date	11/19/2013	4/24/2014	4/24/2014	5/27/2014					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%					
Days After First/Last Applic.	14 14	170 170	170 170	203 19					
Trt-Eval Interval	14 DA-A	170 DA-A	170 DA-A	0 DA-D					
ARM Action Codes	P	P	P	P					
Number of Decimals	0	0	0	0					
Trt No.	Treatment Name	Rate	Unit	Appl Code	Plot	1	2	3	4
18	AUTHORITY MTZ	12 oz/a		A	206	70	100	90	79*
	WEEDMASTER @ 1.5 PT			A	509	50	100	95	95
	CLARITY	0.1875 lb ae/a		A	708	70	100	80	60
	2,4-D LV4	0.53813 lb ae/a		A	1012	90	100	90	85
	ROUNDUP POWERMAX	22 fl oz/a		A					
	COC	1 % v/v		A					
	N-PAK AMS	8.5 lb ai/100 gal		A					
	SHARPEN	1 fl oz/a		D					
	ROUNDUP POWERMAX	32 fl oz/a		D					
	N-PAK AMS	8.5 lb ai/100 gal		D					
	FIREZONE - MSO	1 % v/v		D					
	Mean =					70	100	89	80
19	VALOR XLT @ 3 OZ			A	207	30	100	95	100
	VALOR SX	1.77 oz/a		A	401	50	100	95	100
	CLASSIC	1.24 oz/a		A	701	50	100	100	100
	2,4-D LV4	16 fl oz/a		A	1002	80	100	100	100
	ROUNDUP POWERMAX	22 fl oz/a		A					
	N-PAK AMS	8.5 lb ai/100 gal		A					
	2,4-D LV4	16 fl oz/a		C					
	ROUNDUP POWERMAX	32 fl oz/a		C					
	N-PAK AMS	8.5 lb ai/100 gal		C					
	Mean =					53	100	98	100
20	VALOR XLT @ 3 OZ			A	208	40	100	95	100
	VALOR SX	1.77 oz/a		A	402	80	100	100	90
	CLASSIC	1.24 oz/a		A	702	80	100	100	100
	2,4-D LV4	16 fl oz/a		A	1001	90	100	100	100
	ROUNDUP POWERMAX	22 fl oz/a		A					
	N-PAK AMS	8.5 lb ai/100 gal		A					
	SHARPEN	1 fl oz/a		D					
	ROUNDUP POWERMAX	32 fl oz/a		D					
	N-PAK AMS	8.5 lb ai/100 gal		D					
	FIREZONE - MSO	1 % v/v		D					
	Mean =					73	100	99	98
21	ROUNDUP POWERMAX	22 fl oz/a		A	209	15	100	50	100
	N-PAK AMS	2.5 % v/v		A	411	0	100	30	100
	ZIDUA	2 oz/a		B	703	10	100	100	100
	SHARPEN	2 fl oz/a		B	904	0	95	70	100
	ROUNDUP POWERMAX	32 fl oz/a		B					
	N-PAK AMS	8.5 lb ai/100 gal		B					
	FIREZONE - MSO	1 % v/v		B					
	Mean =					6	99	63	100
22	ROUNDUP POWERMAX	22 fl oz/a		A	210	30	90	50	0
	N-PAK AMS	2.5 % v/v		A	412	15	100	30	0
	ZIDUA	2 oz/a		D	704	0	100	80	0
	SHARPEN	1 fl oz/a		D	903	0	95	90	0
	ROUNDUP POWERMAX	32 fl oz/a		D					
	N-PAK AMS	8.5 lb ai/100 gal		D					
	FIREZONE - MSO	1 % v/v		D					
	Mean =					11	96	63	0

# Purdue University Weed Science

				W Weed	W Weed	W Weed	W Weed
				ERICA	ERICA	ALLVI	ERICA
Pest Type				Conyza canadensis	Conyza canadensis	Allium vineale	Conyza canadensis
Pest Code				Canada horsewee	Canada horsewee	Wild garlic	Canada horsewee
Pest Scientific Name				PLOT P	PLOT P	PLOT P	PLOT P
Pest Name				11/19/2013	4/24/2014	4/24/2014	5/27/2014
Part Rated				CONTRO	CONTRO	CONTRO	CONTRO
Rating Date				%	%	%	%
Rating Type				14 14	170 170	170 170	203 19
Rating Unit				14 DA-A	170 DA-A	170 DA-A	0 DA-D
Days After First/Last Applic.				P	P	P	P
Trt-Eval Interval				0	0	0	0
ARM Action Codes							
Number of Decimals							
Trt Treatment	Rate	Appl		1	2	3	4
No. Name	Rate	Unit	Code Plot				
23 Untreated Check			A 211	0	0	0	95
VALOR XLT @ 3 OZ			C 503	4*	0	0	100
VALOR SX	1.77 oz/a		C 804	0	0	0	90
CLASSIC	1.24 oz/a		C 907	0	0	0	20
2,4-D LV4	16 fl oz/a		C				
ROUNDUP POWERMAX	22 fl oz/a		C				
N-PAK AMS	8.5 lb ai/100 gal		C				
			Mean =	1	0	0	76
24 2,4-D LV4	16 fl oz/a		A 212	10	100	90	85
ROUNDUP POWERMAX	22 fl oz/a		A 505	15	90	95	99
N-PAK AMS	8.5 lb ai/100 gal		A 803	0	90	100	99
VALOR XLT @ 3 OZ			C 908	15	95	60	100
VALOR SX	1.77 oz/a		C				
CLASSIC	1.24 oz/a		C				
2,4-D LV4	16 fl oz/a		C				
ROUNDUP POWERMAX	22 fl oz/a		C				
N-PAK AMS	8.5 lb ai/100 gal		C				
			Mean =	10	94	86	96
25 BASIS BLEND @ 0.825 OZ			A 301	10	100	100	100
RESOLVE	0.165 oz ai/a		A 511	10	100	100	100
HARMONY SG	0.0825 oz ai/a		A 802	60	100	100	100
CANOPY EX @ 2 OZ			A 1008	10	100	90	100
CLASSIC	0.454 oz ai/a		A				
EXPRESS	0.136 oz ai/a		A				
2,4-D LV4	16 fl oz/a		A				
ROUNDUP POWERMAX	22 fl oz/a		A				
N-PAK AMS	8.5 lb ai/100 gal		A				
VALOR XLT @ 3 OZ			C				
VALOR SX	1.77 oz/a		C				
CLASSIC	1.24 oz/a		C				
2,4-D LV4	16 fl oz/a		C				
ROUNDUP POWERMAX	22 fl oz/a		C				
N-PAK AMS	8.5 lb ai/100 gal		C				
			Mean =	23	100	98	100
26 AUTHORITY MTZ	12 oz/a		A 302	80	100	95	100
WEEDMASTER @ 1.5 PT			A 504	70	100	100	100
CLARITY	0.1875 lb ae/a		A 709	20	100	80	100*
2,4-D LV4	0.53813 lb ae/a		A 905	30	100	75	100
ROUNDUP POWERMAX	22 fl oz/a		A				
COC	1 % v/v		A				
N-PAK AMS	8.5 lb ai/100 gal		A				
AUTHORITY XL	4 oz/a		C				
2,4-D LV4	16 fl oz/a		C				
ROUNDUP POWERMAX	22 fl oz/a		C				
N-PAK AMS	8.5 lb ai/100 gal		C				
			Mean =	50	100	88	100



# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	ERICA	ERICA	ALLVI	ERICA				
Pest Scientific Name	Conyza canadensis	Conyza canadensis	Allium vineale	Conyza canadensis				
Pest Name	Canada horseweed	Canada horseweed	Wild garlic	Canada horseweed				
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P				
Rating Date	11/19/2013	4/24/2014	4/24/2014	5/27/2014				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%				
Days After First/Last Applic.	14 14	170 170	170 170	203 19				
Trt-Eval Interval	14 DA-A	170 DA-A	170 DA-A	0 DA-D				
ARM Action Codes	P	P	P	P				
Number of Decimals	0	0	0	0				
Trt Treatment	Rate	Appl			1	2	3	4
No. Name	Rate Unit	Code Plot						
27 VALOR XLT @ 3 OZ		A 303			50	100	95	100
VALOR SX	1.77 oz/a	A 310			80	100	80	100
CLASSIC	1.24 oz/a	A 606			35	100	100	100
2,4-D LV4	16 fl oz/a	A 1009			65	100	80	100
ROUNDUP POWERMAX	22 fl oz/a	A						
N-PAK AMS	8.5 lb ai/100 gal	A						
VALOR XLT @ 3 OZ		C						
VALOR SX	1.77 oz/a	C						
CLASSIC	1.24 oz/a	C						
2,4-D LV4	16 fl oz/a	C						
ROUNDUP POWERMAX	22 fl oz/a	C						
N-PAK AMS	8.5 lb ai/100 gal	C						
		Mean =			58	100	89	100
28 ROUNDUP POWERMAX	22 fl oz/a	A 304			0	90	95	0
N-PAK AMS	8.5 lb ai/100 gal	A 506			25	100	100	0*
ROUNDUP POWERMAX	22 fl oz/a	D 710			5	100	30	0
N-PAK AMS	8.5 lb ai/100 gal	D 906			0	100	70	0
		Mean =			8	98	74	0
29 ROUNDUP POWERMAX	22 fl oz/a	A 305			0	90	80	100
N-PAK AMS	8.5 lb ai/100 gal	A 512			0	95	65	100
GRAMOXONE SL	3.5 pt/a	C 801			0	100	100	100
SENCOR	10 oz/a	C 1007			0	100	80	100
2,4-D LV4	16 fl oz/a	C						
COC	1 % v/v	C						
		Mean =			0	96	81	100
30 VALOR XLT @ 3 OZ		A 306			30	100	95	100
VALOR SX	1.77 oz/a	A 309			70	100	95	100
CLASSIC	1.24 oz/a	A 605			40	100	100	100
2,4-D LV4	16 fl oz/a	A 1010			35	100	80	100
ROUNDUP POWERMAX	22 fl oz/a	A						
N-PAK AMS	8.5 lb ai/100 gal	A						
GRAMOXONE SL	3.5 pt/a	C						
SENCOR	10 oz/a	C						
2,4-D LV4	16 fl oz/a	C						
COC	1 % v/v	C						
		Mean =			44	100	93	100

# Purdue University Weed Science

Pest Type			W Weed	W Weed	W Weed	W Weed		
Pest Code			AMBEL	SETFA	ERICA	AMBEL		
Pest Scientific Name			Ambrosia artem>	Setaria faberi	Conyza canadens>	Ambrosia artem>		
Pest Name			Common ragweed	Giant foxtail	Canada horsewe>	Common ragweed		
Part Rated			PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date			5/27/2014	5/27/2014	6/5/2014	6/5/2014		
Rating Type			CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit			%	%	%	%		
Days After First/Last Applic.			203 19	203 19	212 9	212 9		
Trt-Eval Interval			0 DA-D	0 DA-D	9 DA-D	9 DA-D		
ARM Action Codes			P	P	P	P		
Number of Decimals			0	0	0	0		
Trt Treatment	Rate	Appl						
No. Name	Rate	Unit	Code	Plot	5	6	7	8
1 ROUNDUP POWERMAX	22 fl oz/a	A		101	100	95	100	100
N-PAK AMS	2.5 % v/v	A		308	100	95	80	100
2,4-D LV4	16 fl oz/a	C		706	100	100	100	100
ROUNDUP POWERMAX	32 fl oz/a	C		810	100	90	85	100
N-PAK AMS	8.5 lb ai/100 gal	C						
	Mean =				100	95	91	100
2 ROUNDUP POWERMAX	22 fl oz/a	A		102	100	100	100	95
N-PAK AMS	2.5 % v/v	A		307	100	100	85	100
2,4-D LV4	16 fl oz/a	C		705	100	100	100	100
ROUNDUP POWERMAX	32 fl oz/a	C		809	95	100	90	80
N-PAK AMS	8.5 lb ai/100 gal	C						
FIREZONE - MSO	1 % v/v	C						
OPTILL	2 oz/a	C						
OUTLOOK	10 fl oz/a	C						
	Mean =				99	100	94	94
3 2,4-D LV4	16 fl oz/a	A		103	0	0	100	90
ROUNDUP POWERMAX	22 fl oz/a	A		404	0*	0	100	100
N-PAK AMS	8.5 lb ai/100 gal	A		712	0	0	100	100
SHARPEN	2 fl oz/a	D		1006	0	0	100	100
ROUNDUP POWERMAX	32 fl oz/a	D						
N-PAK AMS	8.5 lb ai/100 gal	D						
FIREZONE - MSO	1 % v/v	D						
	Mean =				0	0	100	98
4 2,4-D LV4	16 fl oz/a	A		104	0	0	100	100
ROUNDUP POWERMAX	22 fl oz/a	A		403	0*	1*	100	100
N-PAK AMS	8.5 lb ai/100 gal	A		711	0	0	100	100
OPTILL	2 oz/a	D		1005	0	0	95	100
OUTLOOK	10 fl oz/a	D						
ROUNDUP POWERMAX	32 fl oz/a	D						
N-PAK AMS	8.5 lb ai/100 gal	D						
FIREZONE - MSO	1 % v/v	D						
	Mean =				0	0	99	100
5 ZIDUA	2 oz/a	A		105	0	0	100	100
DISTINCT	3 oz/a	A		405	0*	0	100	100
ROUNDUP POWERMAX	22 fl oz/a	A		611	0	0	100	100
NIS	0.25 % v/v	A		812	0	0	100	99
N-PAK AMS	8.5 lb ai/100 gal	A						
SHARPEN	2 fl oz/a	D						
ROUNDUP POWERMAX	32 fl oz/a	D						
N-PAK AMS	8.5 lb ai/100 gal	D						
FIREZONE - MSO	1 % v/v	D						
	Mean =				0	0	100	100

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBEL	SETFA	ERICA	AMBEL			
Pest Scientific Name	Ambrosia artem>	Setaria faberi	Conyza canadens>	Ambrosia artem>			
Pest Name	Common ragweed	Giant foxtail	Canada horsewe>	Common ragweed			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P			
Rating Date	5/27/2014	5/27/2014	6/5/2014	6/5/2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%			
Days After First/Last Applic.	203 19	203 19	212 9	212 9			
Trt-Eval Interval	0 DA-D	0 DA-D	9 DA-D	9 DA-D			
ARM Action Codes	P	P	P	P			
Number of Decimals	0	0	0	0			
Trt Treatment No. Name	Rate	Appl Code	Plot	5	6	7	8
6 ZIDUA	2 oz/a	A	106	0	0	100	100
DISTINCT	3 oz/a	A	406	0	0	85	100
ROUNDUP POWERMAX	22 fl oz/a	A	612	0	0	100	100
NIS	0.25 % v/v	A	811	0	0	100	100
N-PAK AMS	8.5 lb ai/100 gal	A					
OPTILL	2 oz/a	D					
OUTLOOK	10 fl oz/a	D					
ROUNDUP POWERMAX	32 fl oz/a	D					
N-PAK AMS	8.5 lb ai/100 gal	D					
FIREZONE - MSO	1 % v/v	D					
Mean =				0	0	96	100
7 ZIDUA	2 oz/a	A	107	95	100	100	95
SHARPEN	1 fl oz/a	A	507	99	100	100	95
ROUNDUP POWERMAX	22 fl oz/a	A	608	100	100	100	100
FIREZONE - MSO	1 % v/v	A	808	100	100	100	100
N-PAK AMS	8.5 lb ai/100 gal	A					
2,4-D LV4	16 fl oz/a	C					
ROUNDUP POWERMAX	32 fl oz/a	C					
N-PAK AMS	8.5 lb ai/100 gal	C					
FIREZONE - MSO	1 % v/v	C					
OPTILL	2 oz/a	C					
OUTLOOK	10 fl oz/a	C					
Mean =				99	100	100	98
8 ZIDUA	2 oz/a	A	108	95	95	100	95
SHARPEN	1 fl oz/a	A	508	100	100	100	95
ROUNDUP POWERMAX	22 fl oz/a	A	607	100	95	100	100
FIREZONE - MSO	1 % v/v	A	807	100	90	100	100
N-PAK AMS	8.5 lb ai/100 gal	A					
SHARPEN	1 fl oz/a	C					
2,4-D LV4	16 fl oz/a	C					
ROUNDUP POWERMAX	32 fl oz/a	C					
N-PAK AMS	8.5 lb ai/100 gal	C					
FIREZONE - MSO	1 % v/v	C					
Mean =				99	95	100	98
9 2,4-D LV4	16 fl oz/a	A	109	0	0	100	100
DISTINCT	2 oz/a	A	501	0	0	100	100
ROUNDUP POWERMAX	22 fl oz/a	A	805	0	0	100	100
NIS	0.25 % v/v	A	911	0	0	90	100
N-PAK AMS	8.5 lb ai/100 gal	A					
OPTILL	2 oz/a	D					
OUTLOOK	10 fl oz/a	D					
ROUNDUP POWERMAX	32 fl oz/a	D					
N-PAK AMS	8.5 lb ai/100 gal	D					
FIREZONE - MSO	1 % v/v	D					
Mean =				0	0	98	100

# Purdue University Weed Science

Pest Type					W Weed	W Weed	W Weed		
Pest Code					AMBEL	SETFA	ERICA		
Pest Scientific Name					Ambrosia artem>	Setaria faberi	Conyza canadens>		
Pest Name					Common ragweed	Giant foxtail	Canada horsewe>		
Part Rated					PLOT P	PLOT P	PLOT P		
Rating Date					5/27/2014	5/27/2014	6/5/2014		
Rating Type					CONTRO	CONTRO	CONTRO		
Rating Unit					%	%	%		
Days After First/Last Applic.					203 19	203 19	212 9		
Trt-Eval Interval					0 DA-D	0 DA-D	9 DA-D		
ARM Action Codes					P	P	P		
Number of Decimals					0	0	0		
Trt No.	Treatment Name	Rate	Unit	Appl Code	Plot	5	6	7	8
10	2,4-D LV4	16 fl oz/a	A	110		0	0	100	100
	DISTINCT	2 oz/a	A	502		0	0	100	100
	ROUNDUP POWERMAX	22 fl oz/a	A	806		0	0	100	100
	NIS	0.25 % v/v	A	912		0	0	75	100
	N-PAK AMS	8.5 lb ai/100 gal	A						
	ZIDUA	2 oz/a	D						
	SHARPEN	1 fl oz/a	D						
	ROUNDUP POWERMAX	32 fl oz/a	D						
	N-PAK AMS	8.5 lb ai/100 gal	D						
	FIREZONE - MSO	1 % v/v	D						
	Mean =					0	0	94	100
11	SHARPEN	2 fl oz/a	A	111		0	0	100	99
	2,4-D LV4	16 fl oz/a	A	311		0	0	100	100
	ROUNDUP POWERMAX	22 fl oz/a	A	610		0	0	100	100
	FIREZONE - MSO	1 % v/v	A	910		0	0	100	100
	N-PAK AMS	8.5 lb ai/100 gal	A						
	OPTILL	2 oz/a	D						
	OUTLOOK	10 fl oz/a	D						
	ROUNDUP POWERMAX	32 fl oz/a	D						
	N-PAK AMS	8.5 lb ai/100 gal	D						
	FIREZONE - MSO	1 % v/v	D						
	Mean =					0	0	100	100
12	SHARPEN	2 fl oz/a	A	112		0	0	100	100
	2,4-D LV4	16 fl oz/a	A	312		0	0	100	100
	ROUNDUP POWERMAX	22 fl oz/a	A	609		0	0	100	100
	FIREZONE - MSO	1 % v/v	A	909		0*	0*	96*	100*
	N-PAK AMS	8.5 lb ai/100 gal	A						
	ZIDUA	2 oz/a	D						
	SHARPEN	1 fl oz/a	D						
	ROUNDUP POWERMAX	32 fl oz/a	D						
	N-PAK AMS	8.5 lb ai/100 gal	D						
	FIREZONE - MSO	1 % v/v	D						
	Mean =					0	0	99	100
13	SHARPEN	2 fl oz/a	A	201		90	0	100	100
	SENCOR	10 oz/a	A	410		95*	0	100	100
	ROUNDUP POWERMAX	22 fl oz/a	A	601		100	0	100	100
	FIREZONE - MSO	1 % v/v	A	901		95	0	100	100
	N-PAK AMS	8.5 lb ai/100 gal	A						
	OPTILL	2 oz/a	D						
	OUTLOOK	10 fl oz/a	D						
	ROUNDUP POWERMAX	32 fl oz/a	D						
	N-PAK AMS	8.5 lb ai/100 gal	D						
	FIREZONE - MSO	1 % v/v	D						
	Mean =					95	0	100	100

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL	SETFA	ERICA	AMBEL
Pest Scientific Name	Ambrosia artem>	Setaria faberi	Conyza canadens>	Ambrosia artem>
Pest Name	Common ragweed	Giant foxtail	Canada horsewe>	Common ragweed
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	5/27/2014	5/27/2014	6/5/2014	6/5/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Days After First/Last Applic.	203 19	203 19	212 9	212 9
Trt-Eval Interval	0 DA-D	0 DA-D	9 DA-D	9 DA-D
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	5	6
			7	8
14 SHARPEN	2 fl oz/a	A 202	88*	0
SENCOR	10 oz/a	A 409	88*	0
ROUNDUP POWERMAX	22 fl oz/a	A 602	80	0
FIREZONE - MSO	1 % v/v	A 902	95	0
N-PAK AMS	8.5 lb ai/100 gal	A		100
ZIDUA	2 oz/a	D		
SHARPEN	1 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
	Mean =		88	0
				100
				100
15 BASIS BLEND @ 0.825 OZ		A 203	100	90
RESOLVE	0.165 oz ai/a	A 408	99	90
HARMONY SG	0.0825 oz ai/a	A 603	100	100
CANOPY EX @ 2 OZ		A 1003	100	95
CLASSIC	0.454 oz ai/a	A		100
EXPRESS	0.136 oz ai/a	A		
2,4-D LV4	16 fl oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
	Mean =		100	94
				100
				100
16 BASIS BLEND @ 0.825 OZ		A 204	50	70
RESOLVE	0.165 oz ai/a	A 407	60	80
HARMONY SG	0.0825 oz ai/a	A 604	90	80
CANOPY EX @ 2 OZ		A 1004	100	70
CLASSIC	0.454 oz ai/a	A		95
EXPRESS	0.136 oz ai/a	A		
2,4-D LV4	16 fl oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
SHARPEN	1 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
	Mean =		75	75
				98
				100
17 AUTHORITY MTZ	12 oz/a	A 205	95	95
WEEDMASTER @ 1.5 PT		A 510	90	95
CLARITY	0.1875 lb ae/a	A 707	100	100
2,4-D LV4	0.53813 lb ae/a	A 1011	100	90
ROUNDUP POWERMAX	22 fl oz/a	A		100
COC	1 % v/v	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
	Mean =		96	95
				100
				94

# Purdue University Weed Science

Pest Type					W Weed	W Weed	W Weed	W Weed	W Weed
Pest Code					AMBEL	SETFA	ERICA	AMBEL	AMBEL
Pest Scientific Name					Ambrosia artem>	Setaria faberi	Conyza canadens>	Ambrosia artem>	Ambrosia artem>
Pest Name					Common ragweed	Giant foxtail	Canada horsewe>	Common ragweed	Common ragweed
Part Rated					PLOT P	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date					5/27/2014	5/27/2014	6/5/2014	6/5/2014	6/5/2014
Rating Type					CONTRO	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit					%	%	%	%	%
Days After First/Last Applic.					203 19	203 19	212 9	212 9	212 9
Trt-Eval Interval					0 DA-D	0 DA-D	9 DA-D	9 DA-D	9 DA-D
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			5	6	7	8	
18 AUTHORITY MTZ	12 oz/a	A 206			0	0	100	100	
WEEDMASTER @ 1.5 PT		A 509			0	1*	100	100	
CLARITY	0.1875 lb ae/a	A 708			0	0	100	100	
2,4-D LV4	0.53813 lb ae/a	A 1012			0	0	100	100	
ROUNDUP POWERMAX	22 fl oz/a	A							
COC	1 % v/v	A							
N-PAK AMS	8.5 lb ai/100 gal	A							
SHARPEN	1 fl oz/a	D							
ROUNDUP POWERMAX	32 fl oz/a	D							
N-PAK AMS	8.5 lb ai/100 gal	D							
FIREZONE - MSO	1 % v/v	D							
		Mean =			0	0	100	100	
19 VALOR XLT @ 3 OZ		A 207			100	100	100	100	
VALOR SX	1.77 oz/a	A 401			100	100	100	100	
CLASSIC	1.24 oz/a	A 701			100	100	100	100	
2,4-D LV4	16 fl oz/a	A 1002			100	100	100	100	
ROUNDUP POWERMAX	22 fl oz/a	A							
N-PAK AMS	8.5 lb ai/100 gal	A							
2,4-D LV4	16 fl oz/a	C							
ROUNDUP POWERMAX	32 fl oz/a	C							
N-PAK AMS	8.5 lb ai/100 gal	C							
		Mean =			100	100	100	100	
20 VALOR XLT @ 3 OZ		A 208			80	70	100	100	
VALOR SX	1.77 oz/a	A 402			100	80	100	100	
CLASSIC	1.24 oz/a	A 702			100	30	100	100	
2,4-D LV4	16 fl oz/a	A 1001			100	70	100	100	
ROUNDUP POWERMAX	22 fl oz/a	A							
N-PAK AMS	8.5 lb ai/100 gal	A							
SHARPEN	1 fl oz/a	D							
ROUNDUP POWERMAX	32 fl oz/a	D							
N-PAK AMS	8.5 lb ai/100 gal	D							
FIREZONE - MSO	1 % v/v	D							
		Mean =			95	63	100	100	
21 ROUNDUP POWERMAX	22 fl oz/a	A 209			100	99	100	100	
N-PAK AMS	2.5 % v/v	A 411			100	100	100	100	
ZIDUA	2 oz/a	B 703			100	100	100	100	
SHARPEN	2 fl oz/a	B 904			100	100	100	100	
ROUNDUP POWERMAX	32 fl oz/a	B							
N-PAK AMS	8.5 lb ai/100 gal	B							
FIREZONE - MSO	1 % v/v	B							
		Mean =			100	100	100	100	
22 ROUNDUP POWERMAX	22 fl oz/a	A 210			0	0	100	100	
N-PAK AMS	2.5 % v/v	A 412			0	0	100	100	
ZIDUA	2 oz/a	D 704			0	0	100	100	
SHARPEN	1 fl oz/a	D 903			0	0	100	100	
ROUNDUP POWERMAX	32 fl oz/a	D							
N-PAK AMS	8.5 lb ai/100 gal	D							
FIREZONE - MSO	1 % v/v	D							
		Mean =			0	0	100	100	

## Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL	SETFA	ERICA	AMBEL
Pest Scientific Name	Ambrosia artem>	Setaria faberi	Conyza canadens>	Ambrosia artem>
Pest Name	Common ragweed	Giant foxtail	Canada horsewe>	Common ragweed
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	5/27/2014	5/27/2014	6/5/2014	6/5/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Days After First/Last Applic.	203 19	203 19	212 9	212 9
Trt-Eval Interval	0 DA-D	0 DA-D	9 DA-D	9 DA-D
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	5	6
23 Untreated Check		A 211	100	100
VALOR XLT @ 3 OZ		C 503	100	100
VALOR SX	1.77 oz/a	C 804	100	100
CLASSIC	1.24 oz/a	C 907	100	100
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	22 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
	Mean =		100	100
24 2,4-D LV4	16 fl oz/a	A 212	90	100
ROUNDUP POWERMAX	22 fl oz/a	A 505	100	100
N-PAK AMS	8.5 lb ai/100 gal	A 803	100	100
VALOR XLT @ 3 OZ		C 908	90	100
VALOR SX	1.77 oz/a	C		
CLASSIC	1.24 oz/a	C		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	22 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
	Mean =		95	100
25 BASIS BLEND @ 0.825 OZ		A 301	100	100
RESOLVE	0.165 oz ai/a	A 511	100	100
HARMONY SG	0.0825 oz ai/a	A 802	99	100
CANOPY EX @ 2 OZ		A 1008	100	100
CLASSIC	0.454 oz ai/a	A		
EXPRESS	0.136 oz ai/a	A		
2,4-D LV4	16 fl oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
VALOR XLT @ 3 OZ		C		
VALOR SX	1.77 oz/a	C		
CLASSIC	1.24 oz/a	C		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	22 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
	Mean =		100	100
26 AUTHORITY MTZ	12 oz/a	A 302	100	100
WEEDMASTER @ 1.5 PT		A 504	100	100
CLARITY	0.1875 lb ae/a	A 709	100*	100*
2,4-D LV4	0.53813 lb ae/a	A 905	100	100
ROUNDUP POWERMAX	22 fl oz/a	A		
COC	1 % v/v	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
AUTHORITY XL	4 oz/a	C		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	22 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
	Mean =		100	100

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	AMBEL	SETFA	ERICA	AMBEL					
Pest Scientific Name	Ambrosia artem>	Setaria faberi	Conyza canadens>	Ambrosia artem>					
Pest Name	Common ragweed	Giant foxtail	Canada horsewe>	Common ragweed					
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P					
Rating Date	5/27/2014	5/27/2014	6/5/2014	6/5/2014					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%					
Days After First/Last Applic.	203 19	203 19	212 9	212 9					
Trt-Eval Interval	0 DA-D	0 DA-D	9 DA-D	9 DA-D					
ARM Action Codes	P	P	P	P					
Number of Decimals	0	0	0	0					
Trt No.	Treatment Name	Rate	Unit	Appl Code	Plot	5	6	7	8
27	VALOR XLT @ 3 OZ			A	303	100	100	100	100
	VALOR SX	1.77 oz/a		A	310	100	100	100	99
	CLASSIC	1.24 oz/a		A	606	100	100	100	100
	2,4-D LV4	16 fl oz/a		A	1009	100	100	100	100
	ROUNDUP POWERMAX	22 fl oz/a		A					
	N-PAK AMS	8.5 lb ai/100 gal		A					
	VALOR XLT @ 3 OZ			C					
	VALOR SX	1.77 oz/a		C					
	CLASSIC	1.24 oz/a		C					
	2,4-D LV4	16 fl oz/a		C					
	ROUNDUP POWERMAX	22 fl oz/a		C					
	N-PAK AMS	8.5 lb ai/100 gal		C					
					Mean =	100	100	100	100
28	ROUNDUP POWERMAX	22 fl oz/a		A	304	0	0	0	70
	N-PAK AMS	8.5 lb ai/100 gal		A	506	0*	1*	0*	85
	ROUNDUP POWERMAX	22 fl oz/a		D	710	0	0	0	50
	N-PAK AMS	8.5 lb ai/100 gal		D	906	0	0	0	70
					Mean =	0	0	0	69
29	ROUNDUP POWERMAX	22 fl oz/a		A	305	100	95	100	100
	N-PAK AMS	8.5 lb ai/100 gal		A	512	100	95	100	99
	GRAMOXONE SL	3.5 pt/a		C	801	100	100	100	100
	SENCOR	10 oz/a		C	1007	100	100	100	100
	2,4-D LV4	16 fl oz/a		C					
	COC	1 % v/v		C					
					Mean =	100	98	100	100
30	VALOR XLT @ 3 OZ			A	306	100	95	100	100
	VALOR SX	1.77 oz/a		A	309	100	100	100	100
	CLASSIC	1.24 oz/a		A	605	100	100	100	100
	2,4-D LV4	16 fl oz/a		A	1010	100	100	100	100
	ROUNDUP POWERMAX	22 fl oz/a		A					
	N-PAK AMS	8.5 lb ai/100 gal		A					
	GRAMOXONE SL	3.5 pt/a		C					
	SENCOR	10 oz/a		C					
	2,4-D LV4	16 fl oz/a		C					
	COC	1 % v/v		C					
					Mean =	100	99	100	100



# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed		
Pest Code	SETFA	ERICA	AMBEL	SETFA		
Pest Scientific Name	Setaria faberi	Conyza canadensis	Ambrosia artemisiifolia	Setaria faberi		
Pest Name	Giant foxtail	Canada horseweed	Common ragweed	Giant foxtail		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	6/5/2014	6/12/2014	6/12/2014	6/12/2014		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%		
Days After First/Last Applic.	212 9	219 16	219 16	219 16		
Trt-Eval Interval	9 DA-D	16 DA-D	16 DA-D	16 DA-D		
ARM Action Codes	P	P	P	P		
Number of Decimals	0	0	0	0		
Trt Treatment	Rate	Appl	9	10	11	12
No. Name	Rate	Unit Code Plot				
1 ROUNDUP POWERMAX	22 fl oz/a	A 101	80	80	100	70
N-PAK AMS	2.5 % v/v	A 308	50	60	100	20
2,4-D LV4	16 fl oz/a	C 706	100	100	100	90
ROUNDUP POWERMAX	32 fl oz/a	C 810	30	80	100	0
N-PAK AMS	8.5 lb ai/100 gal	C				
Mean =			65	80	100	45
2 ROUNDUP POWERMAX	22 fl oz/a	A 102	95	99	95	95
N-PAK AMS	2.5 % v/v	A 307	95	70	100	75
2,4-D LV4	16 fl oz/a	C 705	100	100	100	100
ROUNDUP POWERMAX	32 fl oz/a	C 809	90	80	100	85
N-PAK AMS	8.5 lb ai/100 gal	C				
FIREZONE - MSO	1 % v/v	C				
OPTILL	2 oz/a	C				
OUTLOOK	10 fl oz/a	C				
Mean =			95	87	99	89
3 2,4-D LV4	16 fl oz/a	A 103	100	100	95	95
ROUNDUP POWERMAX	22 fl oz/a	A 404	100	100	100	95
N-PAK AMS	8.5 lb ai/100 gal	A 712	80	100	100	80
SHARPEN	2 fl oz/a	D 1006	100	100	100	100
ROUNDUP POWERMAX	32 fl oz/a	D				
N-PAK AMS	8.5 lb ai/100 gal	D				
FIREZONE - MSO	1 % v/v	D				
Mean =			95	100	99	93
4 2,4-D LV4	16 fl oz/a	A 104	100	99	100	100
ROUNDUP POWERMAX	22 fl oz/a	A 403	100	99	100	100
N-PAK AMS	8.5 lb ai/100 gal	A 711	100	85	95	100
OPTILL	2 oz/a	D 1005	100	95	100	100
OUTLOOK	10 fl oz/a	D				
ROUNDUP POWERMAX	32 fl oz/a	D				
N-PAK AMS	8.5 lb ai/100 gal	D				
FIREZONE - MSO	1 % v/v	D				
Mean =			100	95	99	100
5 ZIDUA	2 oz/a	A 105	100	100	95	100
DISTINCT	3 oz/a	A 405	95	100	100	95
ROUNDUP POWERMAX	22 fl oz/a	A 611	100	100	100	100
NIS	0.25 % v/v	A 812	80	100	90	90
N-PAK AMS	8.5 lb ai/100 gal	A				
SHARPEN	2 fl oz/a	D				
ROUNDUP POWERMAX	32 fl oz/a	D				
N-PAK AMS	8.5 lb ai/100 gal	D				
FIREZONE - MSO	1 % v/v	D				
Mean =			94	100	96	96

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	ERICA	AMBEL	SETFA			
Pest Scientific Name	Setaria faberi	Conyza canadensis	Ambrosia artemisiifolia	Setaria faberi			
Pest Name	Giant foxtail	Canada horseweed	Common ragweed	Giant foxtail			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P			
Rating Date	6/5/2014	6/12/2014	6/12/2014	6/12/2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%			
Days After First/Last Applic.	212 9	219 16	219 16	219 16			
Trt-Eval Interval	9 DA-D	16 DA-D	16 DA-D	16 DA-D			
ARM Action Codes	P	P	P	P			
Number of Decimals	0	0	0	0			
Trt Treatment No. Name	Rate	Appl Code	Plot	9	10	11	12
6 ZIDUA	2 oz/a	A	106	100	100	99	100
DISTINCT	3 oz/a	A	406	100	100	99	99
ROUNDUP POWERMAX	22 fl oz/a	A	612	95	99	100	100
NIS	0.25 % v/v	A	811	100	90	100	100
N-PAK AMS	8.5 lb ai/100 gal	A					
OPTILL	2 oz/a	D					
OUTLOOK	10 fl oz/a	D					
ROUNDUP POWERMAX	32 fl oz/a	D					
N-PAK AMS	8.5 lb ai/100 gal	D					
FIREZONE - MSO	1 % v/v	D					
Mean =				99	97	100	100
7 ZIDUA	2 oz/a	A	107	99	100	100	90
SHARPEN	1 fl oz/a	A	507	95	100	90	95
ROUNDUP POWERMAX	22 fl oz/a	A	608	100	100	95	90
FIREZONE - MSO	1 % v/v	A	808	100	100	95	95
N-PAK AMS	8.5 lb ai/100 gal	A					
2,4-D LV4	16 fl oz/a	C					
ROUNDUP POWERMAX	32 fl oz/a	C					
N-PAK AMS	8.5 lb ai/100 gal	C					
FIREZONE - MSO	1 % v/v	C					
OPTILL	2 oz/a	C					
OUTLOOK	10 fl oz/a	C					
Mean =				99	100	95	93
8 ZIDUA	2 oz/a	A	108	85	100	100	60
SHARPEN	1 fl oz/a	A	508	90	100	100	95
ROUNDUP POWERMAX	22 fl oz/a	A	607	70	100	100	50
FIREZONE - MSO	1 % v/v	A	807	70	100	100	0
N-PAK AMS	8.5 lb ai/100 gal	A					
SHARPEN	1 fl oz/a	C					
2,4-D LV4	16 fl oz/a	C					
ROUNDUP POWERMAX	32 fl oz/a	C					
N-PAK AMS	8.5 lb ai/100 gal	C					
FIREZONE - MSO	1 % v/v	C					
Mean =				79	100	100	51
9 2,4-D LV4	16 fl oz/a	A	109	100	100	100	100
DISTINCT	2 oz/a	A	501	100	100	100	100
ROUNDUP POWERMAX	22 fl oz/a	A	805	100	95	100	100
NIS	0.25 % v/v	A	911	95	80	100	95
N-PAK AMS	8.5 lb ai/100 gal	A					
OPTILL	2 oz/a	D					
OUTLOOK	10 fl oz/a	D					
ROUNDUP POWERMAX	32 fl oz/a	D					
N-PAK AMS	8.5 lb ai/100 gal	D					
FIREZONE - MSO	1 % v/v	D					
Mean =				99	94	100	99

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	ERICA	AMBEL	SETFA			
Pest Scientific Name	Setaria faberi	Conyza canadensis	Ambrosia artemisiifolia	Setaria faberi			
Pest Name	Giant foxtail	Canada horseweed	Common ragweed	Giant foxtail			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P			
Rating Date	6/5/2014	6/12/2014	6/12/2014	6/12/2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%			
Days After First/Last Applic.	212 9	219 16	219 16	219 16			
Trt-Eval Interval	9 DA-D	16 DA-D	16 DA-D	16 DA-D			
ARM Action Codes	P	P	P	P			
Number of Decimals	0	0	0	0			
Trt Treatment No. Name	Rate	Unit	Appl Code Plot	9	10	11	12
10 2,4-D LV4	16 fl oz/a	A	110	100	100	100	90
DISTINCT	2 oz/a	A	502	100	100	100	100
ROUNDUP POWERMAX	22 fl oz/a	A	806	95	80	100	100
NIS	0.25 % v/v	A	912	100	70	100	95
N-PAK AMS	8.5 lb ai/100 gal	A					
ZIDUA	2 oz/a	D					
SHARPEN	1 fl oz/a	D					
ROUNDUP POWERMAX	32 fl oz/a	D					
N-PAK AMS	8.5 lb ai/100 gal	D					
FIREZONE - MSO	1 % v/v	D					
Mean =				99	88	100	96
11 SHARPEN	2 fl oz/a	A	111	100	100	95	100
2,4-D LV4	16 fl oz/a	A	311	100	100	100	100
ROUNDUP POWERMAX	22 fl oz/a	A	610	100	100	100	100
FIREZONE - MSO	1 % v/v	A	910	100	95	100	95
N-PAK AMS	8.5 lb ai/100 gal	A					
OPTILL	2 oz/a	D					
OUTLOOK	10 fl oz/a	D					
ROUNDUP POWERMAX	32 fl oz/a	D					
N-PAK AMS	8.5 lb ai/100 gal	D					
FIREZONE - MSO	1 % v/v	D					
Mean =				100	99	99	99
12 SHARPEN	2 fl oz/a	A	112	95	100	95	90
2,4-D LV4	16 fl oz/a	A	312	100	95	85	95
ROUNDUP POWERMAX	22 fl oz/a	A	609	100	100	100	100
FIREZONE - MSO	1 % v/v	A	909	93*	93*	93*	95*
N-PAK AMS	8.5 lb ai/100 gal	A					
ZIDUA	2 oz/a	D					
SHARPEN	1 fl oz/a	D					
ROUNDUP POWERMAX	32 fl oz/a	D					
N-PAK AMS	8.5 lb ai/100 gal	D					
FIREZONE - MSO	1 % v/v	D					
Mean =				97	97	93	95
13 SHARPEN	2 fl oz/a	A	201	100	100	100	100
SENCOR	10 oz/a	A	410	100	100	100	100
ROUNDUP POWERMAX	22 fl oz/a	A	601	100	100	100	100
FIREZONE - MSO	1 % v/v	A	901	100	100	100	100
N-PAK AMS	8.5 lb ai/100 gal	A					
OPTILL	2 oz/a	D					
OUTLOOK	10 fl oz/a	D					
ROUNDUP POWERMAX	32 fl oz/a	D					
N-PAK AMS	8.5 lb ai/100 gal	D					
FIREZONE - MSO	1 % v/v	D					
Mean =				100	100	100	100

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ERICA	AMBEL	SETFA
Pest Scientific Name	Setaria faberi	Conyza canadensis	Ambrosia artemisiifolia	Setaria faberi
Pest Name	Giant foxtail	Canada horseweed	Common ragweed	Giant foxtail
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	6/5/2014	6/12/2014	6/12/2014	6/12/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Days After First/Last Applic.	212 9	219 16	219 16	219 16
Trt-Eval Interval	9 DA-D	16 DA-D	16 DA-D	16 DA-D
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	9	10
14 SHARPEN	2 fl oz/a	A 202	100	95
SENCOR	10 oz/a	A 409	100	100
ROUNDUP POWERMAX	22 fl oz/a	A 602	95	100
FIREZONE - MSO	1 % v/v	A 902	99	100
N-PAK AMS	8.5 lb ai/100 gal	A		
ZIDUA	2 oz/a	D		
SHARPEN	1 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
		Mean =	99	99
				98
				100
15 BASIS BLEND @ 0.825 OZ		A 203	75	95
RESOLVE	0.165 oz ai/a	A 408	95	100
HARMONY SG	0.0825 oz ai/a	A 603	70	100
CANOPY EX @ 2 OZ		A 1003	80	90
CLASSIC	0.454 oz ai/a	A		
EXPRESS	0.136 oz ai/a	A		
2,4-D LV4	16 fl oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
		Mean =	80	96
				100
				77
16 BASIS BLEND @ 0.825 OZ		A 204	100	90
RESOLVE	0.165 oz ai/a	A 407	100	100
HARMONY SG	0.0825 oz ai/a	A 604	100	100
CANOPY EX @ 2 OZ		A 1004	90	100
CLASSIC	0.454 oz ai/a	A		
EXPRESS	0.136 oz ai/a	A		
2,4-D LV4	16 fl oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
SHARPEN	1 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
		Mean =	98	98
				100
				90
17 AUTHORITY MTZ	12 oz/a	A 205	85	95
WEEDMASTER @ 1.5 PT		A 510	90	95
CLARITY	0.1875 lb ae/a	A 707	90	100
2,4-D LV4	0.53813 lb ae/a	A 1011	70	100
ROUNDUP POWERMAX	22 fl oz/a	A		
COC	1 % v/v	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
		Mean =	84	98
				89
				73

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ERICA	AMBEL	SETFA
Pest Scientific Name	Setaria faberi	Conyza canadensis	Ambrosia artemisiifolia	Setaria faberi
Pest Name	Giant foxtail	Canada horseweed	Common ragweed	Giant foxtail
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	6/5/2014	6/12/2014	6/12/2014	6/12/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Days After First/Last Applic.	212 9	219 16	219 16	219 16
Trt-Eval Interval	9 DA-D	16 DA-D	16 DA-D	16 DA-D
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	9	10
18 AUTHORITY MTZ	12 oz/a	A 206	95	100
WEEDMASTER @ 1.5 PT		A 509	100	100
CLARITY	0.1875 lb ae/a	A 708	95	95
2,4-D LV4	0.53813 lb ae/a	A 1012	90	100
ROUNDUP POWERMAX	22 fl oz/a	A		
COC	1 % v/v	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
SHARPEN	1 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
Mean =			95	99
19 VALOR XLT @ 3 OZ		A 207	100	100
VALOR SX	1.77 oz/a	A 401	95	100
CLASSIC	1.24 oz/a	A 701	100	100
2,4-D LV4	16 fl oz/a	A 1002	85	100
ROUNDUP POWERMAX	22 fl oz/a	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
Mean =			95	100
20 VALOR XLT @ 3 OZ		A 208	100	100
VALOR SX	1.77 oz/a	A 402	100	100
CLASSIC	1.24 oz/a	A 702	95	100
2,4-D LV4	16 fl oz/a	A 1001	100	100
ROUNDUP POWERMAX	22 fl oz/a	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
SHARPEN	1 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
Mean =			99	100
21 ROUNDUP POWERMAX	22 fl oz/a	A 209	99	100
N-PAK AMS	2.5 % v/v	A 411	100	100
ZIDUA	2 oz/a	B 703	85	100
SHARPEN	2 fl oz/a	B 904	95	100
ROUNDUP POWERMAX	32 fl oz/a	B		
N-PAK AMS	8.5 lb ai/100 gal	B		
FIREZONE - MSO	1 % v/v	B		
Mean =			95	100
22 ROUNDUP POWERMAX	22 fl oz/a	A 210	100	100
N-PAK AMS	2.5 % v/v	A 412	100	95
ZIDUA	2 oz/a	D 704	100	100
SHARPEN	1 fl oz/a	D 903	100	100
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
Mean =			100	99

## Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	SETFA	ERICA	AMBEL	SETFA
Pest Scientific Name	Setaria faberi	Conyza canadensis	Ambrosia artemisiifolia	Setaria faberi
Pest Name	Giant foxtail	Canada horseweed	Common ragweed	Giant foxtail
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	6/5/2014	6/12/2014	6/12/2014	6/12/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Days After First/Last Applic.	212 9	219 16	219 16	219 16
Trt-Eval Interval	9 DA-D	16 DA-D	16 DA-D	16 DA-D
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	9	10
23 Untreated Check		A 211	100	100
VALOR XLT @ 3 OZ		C 503	100	95
VALOR SX	1.77 oz/a	C 804	100	90
CLASSIC	1.24 oz/a	C 907	100	40
2,4-D LV4	16 fl oz/a	C		100
ROUNDUP POWERMAX	22 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
Mean =			100	81
24 2,4-D LV4	16 fl oz/a	A 212	90	75
ROUNDUP POWERMAX	22 fl oz/a	A 505	90	95
N-PAK AMS	8.5 lb ai/100 gal	A 803	100	85
VALOR XLT @ 3 OZ		C 908	70	65
VALOR SX	1.77 oz/a	C		95
CLASSIC	1.24 oz/a	C		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	22 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
Mean =			88	80
25 BASIS BLEND @ 0.825 OZ		A 301	100	100
RESOLVE	0.165 oz ai/a	A 511	100	90
HARMONY SG	0.0825 oz ai/a	A 802	100	90
CANOPY EX @ 2 OZ		A 1008	100	90
CLASSIC	0.454 oz ai/a	A		95
EXPRESS	0.136 oz ai/a	A		
2,4-D LV4	16 fl oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
VALOR XLT @ 3 OZ		C		
VALOR SX	1.77 oz/a	C		
CLASSIC	1.24 oz/a	C		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	22 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
Mean =			100	93
26 AUTHORITY MTZ	12 oz/a	A 302	100	100
WEEDMASTER @ 1.5 PT		A 504	95	100
CLARITY	0.1875 lb ae/a	A 709	98*	98*
2,4-D LV4	0.53813 lb ae/a	A 905	95	90
ROUNDUP POWERMAX	22 fl oz/a	A		100
COC	1 % v/v	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
AUTHORITY XL	4 oz/a	C		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	22 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
Mean =			97	97

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed					
Pest Code	SETFA	ERICA	AMBEL	SETFA					
Pest Scientific Name	Setaria faberi	Conyza canadensis	Ambrosia artemisiifolia	Setaria faberi					
Pest Name	Giant foxtail	Canada horseweed	Common ragweed	Giant foxtail					
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P					
Rating Date	6/5/2014	6/12/2014	6/12/2014	6/12/2014					
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO					
Rating Unit	%	%	%	%					
Days After First/Last Applic.	212 9	219 16	219 16	219 16					
Trt-Eval Interval	9 DA-D	16 DA-D	16 DA-D	16 DA-D					
ARM Action Codes	P	P	P	P					
Number of Decimals	0	0	0	0					
Trt No.	Treatment Name	Rate	Unit	Appl Code	Plot	9	10	11	12
27	VALOR XLT @ 3 OZ			A	303	100	100	100	90
	VALOR SX	1.77 oz/a		A	310	100	100	100	90
	CLASSIC	1.24 oz/a		A	606	100	100	100	90
	2,4-D LV4	16 fl oz/a		A	1009	100	100	100	95
	ROUNDUP POWERMAX	22 fl oz/a		A					
	N-PAK AMS	8.5 lb ai/100 gal		A					
	VALOR XLT @ 3 OZ			C					
	VALOR SX	1.77 oz/a		C					
	CLASSIC	1.24 oz/a		C					
	2,4-D LV4	16 fl oz/a		C					
	ROUNDUP POWERMAX	22 fl oz/a		C					
	N-PAK AMS	8.5 lb ai/100 gal		C					
					Mean =	100	100	100	91
28	ROUNDUP POWERMAX	22 fl oz/a		A	304	100	10	70	100
	N-PAK AMS	8.5 lb ai/100 gal		A	506	100	9*	100	100
	ROUNDUP POWERMAX	22 fl oz/a		D	710	100	5	65	100
	N-PAK AMS	8.5 lb ai/100 gal		D	906	100	10	70	100
					Mean =	100	9	76	100
29	ROUNDUP POWERMAX	22 fl oz/a		A	305	80	100	100	70
	N-PAK AMS	8.5 lb ai/100 gal		A	512	80	100	100	30
	GRAMOXONE SL	3.5 pt/a		C	801	95	100	100	80
	SENCOR	10 oz/a		C	1007	90	100	95	70
	2,4-D LV4	16 fl oz/a		C					
	COC	1 % v/v		C					
					Mean =	86	100	99	63
30	VALOR XLT @ 3 OZ			A	306	80	100	100	60
	VALOR SX	1.77 oz/a		A	309	90	100	100	80
	CLASSIC	1.24 oz/a		A	605	80	100	100	80
	2,4-D LV4	16 fl oz/a		A	1010	65	100	100	60
	ROUNDUP POWERMAX	22 fl oz/a		A					
	N-PAK AMS	8.5 lb ai/100 gal		A					
	GRAMOXONE SL	3.5 pt/a		C					
	SENCOR	10 oz/a		C					
	2,4-D LV4	16 fl oz/a		C					
	COC	1 % v/v		C					
					Mean =	79	100	100	70

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed		
Pest Code	XANST	ERICA	AMBEL	SETFA		
Pest Scientific Name	Xanthium strum>	Conyza canad>	Ambrosia artem>	Setaria faberi		
Pest Name	Heart-leaf coc>	Canada horsewe>	Common ragweed	Giant foxtail		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	6/12/2014	6/25/2014	6/25/2014	6/25/2014		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%		
Days After First/Last Applic.	219 16	232 29	232 29	232 29		
Trt-Eval Interval	16 DA-D	29 DA-D	29 DA-D	29 DA-D		
ARM Action Codes	P	P	P	P		
Number of Decimals	0	0	0	0		
Trt Treatment	Rate	Appl	13	14	15	16
No. Name	Rate	Code Plot				
1 ROUNDUP POWERMAX	22 fl oz/a	A 101	0	70	95	30
N-PAK AMS	2.5 % v/v	A 308	0	30	90	0
2,4-D LV4	16 fl oz/a	C 706	0*	100	100	50
ROUNDUP POWERMAX	32 fl oz/a	C 810	0	65	100	0
N-PAK AMS	8.5 lb ai/100 gal	C				
Mean =			0	66	96	20
2 ROUNDUP POWERMAX	22 fl oz/a	A 102	75	95	90	50
N-PAK AMS	2.5 % v/v	A 307	70	65	90	50
2,4-D LV4	16 fl oz/a	C 705	90	100	100	60
ROUNDUP POWERMAX	32 fl oz/a	C 809	100	60	70	20
N-PAK AMS	8.5 lb ai/100 gal	C				
FIREZONE - MSO	1 % v/v	C				
OPTILL	2 oz/a	C				
OUTLOOK	10 fl oz/a	C				
Mean =			84	80	88	45
3 2,4-D LV4	16 fl oz/a	A 103	95	100	85	65
ROUNDUP POWERMAX	22 fl oz/a	A 404	100	100	100	70
N-PAK AMS	8.5 lb ai/100 gal	A 712	100	99	99	15
SHARPEN	2 fl oz/a	D 1006	80	100	100	35
ROUNDUP POWERMAX	32 fl oz/a	D				
N-PAK AMS	8.5 lb ai/100 gal	D				
FIREZONE - MSO	1 % v/v	D				
Mean =			94	100	96	46
4 2,4-D LV4	16 fl oz/a	A 104	99	80	100	95
ROUNDUP POWERMAX	22 fl oz/a	A 403	100	99	100	85
N-PAK AMS	8.5 lb ai/100 gal	A 711	100	80	90	95
OPTILL	2 oz/a	D 1005	95	90	100	95
OUTLOOK	10 fl oz/a	D				
ROUNDUP POWERMAX	32 fl oz/a	D				
N-PAK AMS	8.5 lb ai/100 gal	D				
FIREZONE - MSO	1 % v/v	D				
Mean =			99	87	98	93
5 ZIDUA	2 oz/a	A 105	95	99	95	70
DISTINCT	3 oz/a	A 405	100	100	100	70
ROUNDUP POWERMAX	22 fl oz/a	A 611	100	100	100	55
NIS	0.25 % v/v	A 812	100	99	90	20
N-PAK AMS	8.5 lb ai/100 gal	A				
SHARPEN	2 fl oz/a	D				
ROUNDUP POWERMAX	32 fl oz/a	D				
N-PAK AMS	8.5 lb ai/100 gal	D				
FIREZONE - MSO	1 % v/v	D				
Mean =			99	100	96	54



# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed		
Pest Code	XANST	ERICA	AMBEL	SETFA		
Pest Scientific Name	Xanthium strum>	Conyza canadens>	Ambrosia artem>	Setaria faberi		
Pest Name	Heart-leaf coc>	Canada horsewe>	Common ragweed	Giant foxtail		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	6/12/2014	6/25/2014	6/25/2014	6/25/2014		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%		
Days After First/Last Applic.	219 16	232 29	232 29	232 29		
Trt-Eval Interval	16 DA-D	29 DA-D	29 DA-D	29 DA-D		
ARM Action Codes	P	P	P	P		
Number of Decimals	0	0	0	0		
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	13	14	15	16
6 ZIDUA	2 oz/a	A 106	100	92	85	95
DISTINCT	3 oz/a	A 406	100	85	95	90
ROUNDUP POWERMAX	22 fl oz/a	A 612	100	90	100	70
NIS	0.25 % v/v	A 811	100	90	100	95
N-PAK AMS	8.5 lb ai/100 gal	A				
OPTILL	2 oz/a	D				
OUTLOOK	10 fl oz/a	D				
ROUNDUP POWERMAX	32 fl oz/a	D				
N-PAK AMS	8.5 lb ai/100 gal	D				
FIREZONE - MSO	1 % v/v	D				
Mean =			100	89	95	88
7 ZIDUA	2 oz/a	A 107	90	100	95	85
SHARPEN	1 fl oz/a	A 507	30	100	90	95
ROUNDUP POWERMAX	22 fl oz/a	A 608	60	100	80	60
FIREZONE - MSO	1 % v/v	A 808	99	100	85	60
N-PAK AMS	8.5 lb ai/100 gal	A				
2,4-D LV4	16 fl oz/a	C				
ROUNDUP POWERMAX	32 fl oz/a	C				
N-PAK AMS	8.5 lb ai/100 gal	C				
FIREZONE - MSO	1 % v/v	C				
OPTILL	2 oz/a	C				
OUTLOOK	10 fl oz/a	C				
Mean =			70	100	88	75
8 ZIDUA	2 oz/a	A 108	30	100	80	15
SHARPEN	1 fl oz/a	A 508	10	100	95	85
ROUNDUP POWERMAX	22 fl oz/a	A 607	20	100	100	10
FIREZONE - MSO	1 % v/v	A 807	0	95	95	0
N-PAK AMS	8.5 lb ai/100 gal	A				
SHARPEN	1 fl oz/a	C				
2,4-D LV4	16 fl oz/a	C				
ROUNDUP POWERMAX	32 fl oz/a	C				
N-PAK AMS	8.5 lb ai/100 gal	C				
FIREZONE - MSO	1 % v/v	C				
Mean =			15	99	93	28
9 2,4-D LV4	16 fl oz/a	A 109	100	99	95	95
DISTINCT	2 oz/a	A 501	80	100	100	95
ROUNDUP POWERMAX	22 fl oz/a	A 805	100	90	100	95
NIS	0.25 % v/v	A 911	100	25	90	75
N-PAK AMS	8.5 lb ai/100 gal	A				
OPTILL	2 oz/a	D				
OUTLOOK	10 fl oz/a	D				
ROUNDUP POWERMAX	32 fl oz/a	D				
N-PAK AMS	8.5 lb ai/100 gal	D				
FIREZONE - MSO	1 % v/v	D				
Mean =			95	79	96	90

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	XANST	ERICA	AMBEL	SETFA
Pest Scientific Name	Xanthium strum>	Conyza canadens>	Ambrosia artem>	Setaria faberi
Pest Name	Heart-leaf coc>	Canada horsewe>	Common ragweed	Giant foxtail
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	6/12/2014	6/25/2014	6/25/2014	6/25/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Days After First/Last Applic.	219 16	232 29	232 29	232 29
Trt-Eval Interval	16 DA-D	29 DA-D	29 DA-D	29 DA-D
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	13	14
10 2,4-D LV4	16 fl oz/a	A 110	100	100
DISTINCT	2 oz/a	A 502	95	100
ROUNDUP POWERMAX	22 fl oz/a	A 806	95	80
NIS	0.25 % v/v	A 912	100	15
N-PAK AMS	8.5 lb ai/100 gal	A		100
ZIDUA	2 oz/a	D		
SHARPEN	1 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
Mean =			98	74
11 SHARPEN	2 fl oz/a	A 111	99	100
2,4-D LV4	16 fl oz/a	A 311	100	100
ROUNDUP POWERMAX	22 fl oz/a	A 610	100	100
FIREZONE - MSO	1 % v/v	A 910	100	85
N-PAK AMS	8.5 lb ai/100 gal	A		100
OPTILL	2 oz/a	D		
OUTLOOK	10 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
Mean =			100	96
12 SHARPEN	2 fl oz/a	A 112	95	100
2,4-D LV4	16 fl oz/a	A 312	95	95
ROUNDUP POWERMAX	22 fl oz/a	A 609	90	95
FIREZONE - MSO	1 % v/v	A 909	100*	89*
N-PAK AMS	8.5 lb ai/100 gal	A		83*
ZIDUA	2 oz/a	D		
SHARPEN	1 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
Mean =			95	95
13 SHARPEN	2 fl oz/a	A 201	85	100
SENCOR	10 oz/a	A 410	100	100
ROUNDUP POWERMAX	22 fl oz/a	A 601	80	100
FIREZONE - MSO	1 % v/v	A 901	95	100
N-PAK AMS	8.5 lb ai/100 gal	A		100
OPTILL	2 oz/a	D		
OUTLOOK	10 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
Mean =			90	100

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	XANST	ERICA	AMBEL	SETFA
Pest Scientific Name	Xanthium strum>	Conyza canad>	Ambrosia artem>	Setaria faberi
Pest Name	Heart-leaf coc>	Canada horsewe>	Common ragweed	Giant foxtail
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	6/12/2014	6/25/2014	6/25/2014	6/25/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Days After First/Last Applic.	219 16	232 29	232 29	232 29
Trt-Eval Interval	16 DA-D	29 DA-D	29 DA-D	29 DA-D
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	13	14
14 SHARPEN	2 fl oz/a	A 202	85	95
SENCOR	10 oz/a	A 409	95	95
ROUNDUP POWERMAX	22 fl oz/a	A 602	95	100
FIREZONE - MSO	1 % v/v	A 902	95	100
N-PAK AMS	8.5 lb ai/100 gal	A		100
ZIDUA	2 oz/a	D		
SHARPEN	1 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
		Mean =	93	98
15 BASIS BLEND @ 0.825 OZ		A 203	90	95
RESOLVE	0.165 oz ai/a	A 408	80	100
HARMONY SG	0.0825 oz ai/a	A 603	100	100
CANOPY EX @ 2 OZ		A 1003	90	90
CLASSIC	0.454 oz ai/a	A		100
EXPRESS	0.136 oz ai/a	A		
2,4-D LV4	16 fl oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
		Mean =	90	96
16 BASIS BLEND @ 0.825 OZ		A 204	100	90
RESOLVE	0.165 oz ai/a	A 407	70	95
HARMONY SG	0.0825 oz ai/a	A 604	90	100
CANOPY EX @ 2 OZ		A 1004	95	100
CLASSIC	0.454 oz ai/a	A		100
EXPRESS	0.136 oz ai/a	A		
2,4-D LV4	16 fl oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
SHARPEN	1 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
		Mean =	89	96
17 AUTHORITY MTZ	12 oz/a	A 205	75	95
WEEDMASTER @ 1.5 PT		A 510	70	90
CLARITY	0.1875 lb ae/a	A 707	20	99
2,4-D LV4	0.53813 lb ae/a	A 1011	85	100
ROUNDUP POWERMAX	22 fl oz/a	A		80
COC	1 % v/v	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
		Mean =	63	96
				78
				25

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	XANST	ERICA	AMBEL	SETFA
Pest Scientific Name	Xanthium strum>	Conyza canad>	Ambrosia artem>	Setaria faberi
Pest Name	Heart-leaf coc>	Canada horsewe>	Common ragweed	Giant foxtail
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	6/12/2014	6/25/2014	6/25/2014	6/25/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Days After First/Last Applic.	219 16	232 29	232 29	232 29
Trt-Eval Interval	16 DA-D	29 DA-D	29 DA-D	29 DA-D
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	13	14
18 AUTHORITY MTZ	12 oz/a	A 206	75	100
WEEDMASTER @ 1.5 PT		A 509	100	100
CLARITY	0.1875 lb ae/a	A 708	95	95
2,4-D LV4	0.53813 lb ae/a	A 1012	100	100
ROUNDUP POWERMAX	22 fl oz/a	A		95
COC	1 % v/v	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
SHARPEN	1 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
Mean =			93	99
19 VALOR XLT @ 3 OZ		A 207	60	100
VALOR SX	1.77 oz/a	A 401	10	100
CLASSIC	1.24 oz/a	A 701	10	100
2,4-D LV4	16 fl oz/a	A 1002	80	100
ROUNDUP POWERMAX	22 fl oz/a	A		100
N-PAK AMS	8.5 lb ai/100 gal	A		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
Mean =			40	100
20 VALOR XLT @ 3 OZ		A 208	100	100
VALOR SX	1.77 oz/a	A 402	80	100
CLASSIC	1.24 oz/a	A 702	90	100
2,4-D LV4	16 fl oz/a	A 1001	85	100
ROUNDUP POWERMAX	22 fl oz/a	A		100
N-PAK AMS	8.5 lb ai/100 gal	A		
SHARPEN	1 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
Mean =			89	100
21 ROUNDUP POWERMAX	22 fl oz/a	A 209	95	100
N-PAK AMS	2.5 % v/v	A 411	95	100
ZIDUA	2 oz/a	B 703	80	100
SHARPEN	2 fl oz/a	B 904	90	100
ROUNDUP POWERMAX	32 fl oz/a	B		100
N-PAK AMS	8.5 lb ai/100 gal	B		
FIREZONE - MSO	1 % v/v	B		
Mean =			90	100
22 ROUNDUP POWERMAX	22 fl oz/a	A 210	95	93
N-PAK AMS	2.5 % v/v	A 412	100	90
ZIDUA	2 oz/a	D 704	100	100
SHARPEN	1 fl oz/a	D 903	95	100
ROUNDUP POWERMAX	32 fl oz/a	D		100
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
Mean =			98	96
Mean =				91
Mean =				78

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	XANST	ERICA	AMBEL	SETFA
Pest Scientific Name	Xanthium strum>	Conyza canadens>	Ambrosia artem>	Setaria faberi
Pest Name	Heart-leaf coc>	Canada horsewe>	Common ragweed	Giant foxtail
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	6/12/2014	6/25/2014	6/25/2014	6/25/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Days After First/Last Applic.	219 16	232 29	232 29	232 29
Trt-Eval Interval	16 DA-D	29 DA-D	29 DA-D	29 DA-D
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	13	14
23 Untreated Check		A 211	95	85
VALOR XLT @ 3 OZ		C 503	80	95
VALOR SX	1.77 oz/a	C 804	100	90
CLASSIC	1.24 oz/a	C 907	95	82*
2,4-D LV4	16 fl oz/a	C		95
ROUNDUP POWERMAX	22 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
Mean =			93	88
24 2,4-D LV4	16 fl oz/a	A 212	90	75
ROUNDUP POWERMAX	22 fl oz/a	A 505	95	95
N-PAK AMS	8.5 lb ai/100 gal	A 803	90	85
VALOR XLT @ 3 OZ		C 908	100	50
VALOR SX	1.77 oz/a	C		80
CLASSIC	1.24 oz/a	C		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	22 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
Mean =			94	76
25 BASIS BLEND @ 0.825 OZ		A 301	100	100
RESOLVE	0.165 oz ai/a	A 511	100	80
HARMONY SG	0.0825 oz ai/a	A 802	100	80
CANOPY EX @ 2 OZ		A 1008	100	90
CLASSIC	0.454 oz ai/a	A		95
EXPRESS	0.136 oz ai/a	A		
2,4-D LV4	16 fl oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
VALOR XLT @ 3 OZ		C		
VALOR SX	1.77 oz/a	C		
CLASSIC	1.24 oz/a	C		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	22 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
Mean =			100	88
26 AUTHORITY MTZ	12 oz/a	A 302	90	100
WEEDMASTER @ 1.5 PT		A 504	100	100
CLARITY	0.1875 lb ae/a	A 709	96*	100*
2,4-D LV4	0.53813 lb ae/a	A 905	100	90
ROUNDUP POWERMAX	22 fl oz/a	A		
COC	1 % v/v	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
AUTHORITY XL	4 oz/a	C		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	22 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
Mean =			96	98

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed		
Pest Code	XANST	ERICA	AMBEL	SETFA		
Pest Scientific Name	Xanthium strum>	Conyza canadens>	Ambrosia artem>	Setaria faberi		
Pest Name	Heart-leaf coc>	Canada horsewe>	Common ragweed	Giant foxtail		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	6/12/2014	6/25/2014	6/25/2014	6/25/2014		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%		
Days After First/Last Applic.	219 16	232 29	232 29	232 29		
Trt-Eval Interval	16 DA-D	29 DA-D	29 DA-D	29 DA-D		
ARM Action Codes	P	P	P	P		
Number of Decimals	0	0	0	0		
Trt Treatment	Rate	Appl				
No. Name	Rate Unit	Code Plot	13	14	15	16
27 VALOR XLT @ 3 OZ		A 303	99	100	100	65
VALOR SX	1.77 oz/a	A 310	90	100	95	80
CLASSIC	1.24 oz/a	A 606	90	100	100	70
2,4-D LV4	16 fl oz/a	A 1009	100	100	99	85
ROUNDUP POWERMAX	22 fl oz/a	A				
N-PAK AMS	8.5 lb ai/100 gal	A				
VALOR XLT @ 3 OZ		C				
VALOR SX	1.77 oz/a	C				
CLASSIC	1.24 oz/a	C				
2,4-D LV4	16 fl oz/a	C				
ROUNDUP POWERMAX	22 fl oz/a	C				
N-PAK AMS	8.5 lb ai/100 gal	C				
Mean =			95	100	99	75
28 ROUNDUP POWERMAX	22 fl oz/a	A 304	100	10	60	80
N-PAK AMS	8.5 lb ai/100 gal	A 506	10	9*	99	80
ROUNDUP POWERMAX	22 fl oz/a	D 710	100	5	70	10
N-PAK AMS	8.5 lb ai/100 gal	D 906	90	10	50	15
Mean =			75	9	70	46
29 ROUNDUP POWERMAX	22 fl oz/a	A 305	80	100	100	10
N-PAK AMS	8.5 lb ai/100 gal	A 512	60	100	95	0
GRAMOXONE SL	3.5 pt/a	C 801	72*	100	100	55
SENCOR	10 oz/a	C 1007	80	100	70	10
2,4-D LV4	16 fl oz/a	C				
COC	1 % v/v	C				
Mean =			73	100	91	19
30 VALOR XLT @ 3 OZ		A 306	30	100	100	10
VALOR SX	1.77 oz/a	A 309	60	100	85	20
CLASSIC	1.24 oz/a	A 605	80	100	100	50
2,4-D LV4	16 fl oz/a	A 1010	70	100	95	30
ROUNDUP POWERMAX	22 fl oz/a	A				
N-PAK AMS	8.5 lb ai/100 gal	A				
GRAMOXONE SL	3.5 pt/a	C				
SENCOR	10 oz/a	C				
2,4-D LV4	16 fl oz/a	C				
COC	1 % v/v	C				
Mean =			60	100	95	28

# Purdue University Weed Science

Trt No.	Treatment Name	Rate	Unit	Appl Code	Plot	W Weed XANST Xanthium strum> Heart-leaf coc> PLOT P 6/25/2014 CONTRO % 232 29 29 DA-D P 0	W Weed ERICA Conyza canaden> Canada horsewe> PLOT P 7/22/2014 CONTRO % 259 56 56 DA-D P 0
	1 ROUNDUP POWERMAX	22 fl oz/a		A	101	0	100
	N-PAK AMS	2.5 % v/v		A	308	0	70
	2,4-D LV4	16 fl oz/a		C	706	0*	100
	ROUNDUP POWERMAX	32 fl oz/a		C	810	0	80
	N-PAK AMS	8.5 lb ai/100 gal		C			
					Mean =	0	88
	2 ROUNDUP POWERMAX	22 fl oz/a		A	102	30	90
	N-PAK AMS	2.5 % v/v		A	307	20	80
	2,4-D LV4	16 fl oz/a		C	705	70	100
	ROUNDUP POWERMAX	32 fl oz/a		C	809	90	65
	N-PAK AMS	8.5 lb ai/100 gal		C			
	FIREZONE - MSO	1 % v/v		C			
	OPTILL	2 oz/a		C			
	OUTLOOK	10 fl oz/a		C			
					Mean =	53	84
	3 2,4-D LV4	16 fl oz/a		A	103	85	100
	ROUNDUP POWERMAX	22 fl oz/a		A	404	95	100
	N-PAK AMS	8.5 lb ai/100 gal		A	712	100	100*
	SHARPEN	2 fl oz/a		D	1006	15	100
	ROUNDUP POWERMAX	32 fl oz/a		D			
	N-PAK AMS	8.5 lb ai/100 gal		D			
	FIREZONE - MSO	1 % v/v		D			
					Mean =	74	100
	4 2,4-D LV4	16 fl oz/a		A	104	95	80
	ROUNDUP POWERMAX	22 fl oz/a		A	403	95	100
	N-PAK AMS	8.5 lb ai/100 gal		A	711	99	100
	OPTILL	2 oz/a		D	1005	70	100
	OUTLOOK	10 fl oz/a		D			
	ROUNDUP POWERMAX	32 fl oz/a		D			
	N-PAK AMS	8.5 lb ai/100 gal		D			
	FIREZONE - MSO	1 % v/v		D			
					Mean =	90	95
	5 ZIDUA	2 oz/a		A	105	80	100
	DISTINCT	3 oz/a		A	405	90	100
	ROUNDUP POWERMAX	22 fl oz/a		A	611	95	100
	NIS	0.25 % v/v		A	812	100	100*
	N-PAK AMS	8.5 lb ai/100 gal		A			
	SHARPEN	2 fl oz/a		D			
	ROUNDUP POWERMAX	32 fl oz/a		D			
	N-PAK AMS	8.5 lb ai/100 gal		D			
	FIREZONE - MSO	1 % v/v		D			
					Mean =	91	100

# Purdue University Weed Science

Pest Type	W Weed	W Weed		
Pest Code	XANST	ERICA		
Pest Scientific Name	Xanthium strum>	Conyza canadens>		
Pest Name	Heart-leaf coc>	Canada horsewe>		
Part Rated	PLOT P	PLOT P		
Rating Date	6/25/2014	7/22/2014		
Rating Type	CONTRO	CONTRO		
Rating Unit	%	%		
Days After First/Last Applic.	232 29	259 56		
Trt-Eval Interval	29 DA-D	56 DA-D		
ARM Action Codes	P	P		
Number of Decimals	0	0		
Trt Treatment	Rate	Appl	17	18
No. Name	Rate Unit	Code Plot		
6 ZIDUA	2 oz/a	A 106	95	100
DISTINCT	3 oz/a	A 406	95	100
ROUNDUP POWERMAX	22 fl oz/a	A 612	95	100*
NIS	0.25 % v/v	A 811	100	100
N-PAK AMS	8.5 lb ai/100 gal	A		
OPTILL	2 oz/a	D		
OUTLOOK	10 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
		Mean =	96	100
7 ZIDUA	2 oz/a	A 107	85	100
SHARPEN	1 fl oz/a	A 507	10	100
ROUNDUP POWERMAX	22 fl oz/a	A 608	20	100
FIREZONE - MSO	1 % v/v	A 808	85	100
N-PAK AMS	8.5 lb ai/100 gal	A		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
FIREZONE - MSO	1 % v/v	C		
OPTILL	2 oz/a	C		
OUTLOOK	10 fl oz/a	C		
		Mean =	50	100
8 ZIDUA	2 oz/a	A 108	20	100
SHARPEN	1 fl oz/a	A 508	0	100
ROUNDUP POWERMAX	22 fl oz/a	A 607	5	100
FIREZONE - MSO	1 % v/v	A 807	0	100
N-PAK AMS	8.5 lb ai/100 gal	A		
SHARPEN	1 fl oz/a	C		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
FIREZONE - MSO	1 % v/v	C		
		Mean =	6	100
9 2,4-D LV4	16 fl oz/a	A 109	100	95
DISTINCT	2 oz/a	A 501	60	100
ROUNDUP POWERMAX	22 fl oz/a	A 805	100	100
NIS	0.25 % v/v	A 911	100	100
N-PAK AMS	8.5 lb ai/100 gal	A		
OPTILL	2 oz/a	D		
OUTLOOK	10 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
		Mean =	90	99



# Purdue University Weed Science

				W Weed	W Weed	
Pest Type				XANST	ERICA	
Pest Code				Xanthium strum>	Conyza canadens>	
Pest Scientific Name				Heart-leaf coc>	Canada horsewe>	
Pest Name				PLOT P	PLOT P	
Part Rated				6/25/2014	7/22/2014	
Rating Date				CONTRO	CONTRO	
Rating Type				%	%	
Rating Unit				232 29	259 56	
Days After First/Last Applic.				29 DA-D	56 DA-D	
Trt-Eval Interval				P	P	
ARM Action Codes				0	0	
Number of Decimals						
Trt No.	Treatment Name	Rate	Appl Code	Plot	17	18
10	2,4-D LV4	16 fl oz/a	A	110	95	100
	DISTINCT	2 oz/a	A	502	50	100
	ROUNDUP POWERMAX	22 fl oz/a	A	806	80	100
	NIS	0.25 % v/v	A	912	85	100*
	N-PAK AMS	8.5 lb ai/100 gal	A			
	ZIDUA	2 oz/a	D			
	SHARPEN	1 fl oz/a	D			
	ROUNDUP POWERMAX	32 fl oz/a	D			
	N-PAK AMS	8.5 lb ai/100 gal	D			
	FIREZONE - MSO	1 % v/v	D			
	Mean =				78	100
11	SHARPEN	2 fl oz/a	A	111	95	100
	2,4-D LV4	16 fl oz/a	A	311	100	100
	ROUNDUP POWERMAX	22 fl oz/a	A	610	99	100
	FIREZONE - MSO	1 % v/v	A	910	100	100
	N-PAK AMS	8.5 lb ai/100 gal	A			
	OPTILL	2 oz/a	D			
	OUTLOOK	10 fl oz/a	D			
	ROUNDUP POWERMAX	32 fl oz/a	D			
	N-PAK AMS	8.5 lb ai/100 gal	D			
	FIREZONE - MSO	1 % v/v	D			
	Mean =				99	100
12	SHARPEN	2 fl oz/a	A	112	50	100
	2,4-D LV4	16 fl oz/a	A	312	75	100
	ROUNDUP POWERMAX	22 fl oz/a	A	609	70	100
	FIREZONE - MSO	1 % v/v	A	909	72*	100*
	N-PAK AMS	8.5 lb ai/100 gal	A			
	ZIDUA	2 oz/a	D			
	SHARPEN	1 fl oz/a	D			
	ROUNDUP POWERMAX	32 fl oz/a	D			
	N-PAK AMS	8.5 lb ai/100 gal	D			
	FIREZONE - MSO	1 % v/v	D			
	Mean =				67	100
13	SHARPEN	2 fl oz/a	A	201	80	95
	SENCOR	10 oz/a	A	410	100	100
	ROUNDUP POWERMAX	22 fl oz/a	A	601	65	98*
	FIREZONE - MSO	1 % v/v	A	901	60	98*
	N-PAK AMS	8.5 lb ai/100 gal	A			
	OPTILL	2 oz/a	D			
	OUTLOOK	10 fl oz/a	D			
	ROUNDUP POWERMAX	32 fl oz/a	D			
	N-PAK AMS	8.5 lb ai/100 gal	D			
	FIREZONE - MSO	1 % v/v	D			
	Mean =				76	98

# Purdue University Weed Science

				W Weed	W Weed
				XANST	ERICA
				Xanthium strum>	Conyza canad>
				Heart-leaf coc>	Canada horsewe>
				PLOT P	PLOT P
				6/25/2014	7/22/2014
				CONTRO	CONTRO
				%	%
				232 29	259 56
				29 DA-D	56 DA-D
				P	P
				0	0
Trt No.	Treatment Name	Rate	Appl Code Plot	17	18
14	SHARPEN	2 fl oz/a	A 202	40	85
	SENCOR	10 oz/a	A 409	80	100
	ROUNDUP POWERMAX	22 fl oz/a	A 602	60	100
	FIREZONE - MSO	1 % v/v	A 902	60	100
	N-PAK AMS	8.5 lb ai/100 gal	A		
	ZIDUA	2 oz/a	D		
	SHARPEN	1 fl oz/a	D		
	ROUNDUP POWERMAX	32 fl oz/a	D		
	N-PAK AMS	8.5 lb ai/100 gal	D		
	FIREZONE - MSO	1 % v/v	D		
			Mean =	60	96
15	BASIS BLEND @ 0.825 OZ		A 203	70	100
	RESOLVE	0.165 oz ai/a	A 408	80	95
	HARMONY SG	0.0825 oz ai/a	A 603	80	100
	CANOPY EX @ 2 OZ		A 1003	70	95
	CLASSIC	0.454 oz ai/a	A		
	EXPRESS	0.136 oz ai/a	A		
	2,4-D LV4	16 fl oz/a	A		
	ROUNDUP POWERMAX	22 fl oz/a	A		
	N-PAK AMS	8.5 lb ai/100 gal	A		
	2,4-D LV4	16 fl oz/a	C		
	ROUNDUP POWERMAX	32 fl oz/a	C		
	N-PAK AMS	8.5 lb ai/100 gal	C		
			Mean =	75	98
16	BASIS BLEND @ 0.825 OZ		A 204	80	100
	RESOLVE	0.165 oz ai/a	A 407	50	100
	HARMONY SG	0.0825 oz ai/a	A 604	70	100
	CANOPY EX @ 2 OZ		A 1004	85	100
	CLASSIC	0.454 oz ai/a	A		
	EXPRESS	0.136 oz ai/a	A		
	2,4-D LV4	16 fl oz/a	A		
	ROUNDUP POWERMAX	22 fl oz/a	A		
	N-PAK AMS	8.5 lb ai/100 gal	A		
	SHARPEN	1 fl oz/a	D		
	ROUNDUP POWERMAX	32 fl oz/a	D		
	N-PAK AMS	8.5 lb ai/100 gal	D		
	FIREZONE - MSO	1 % v/v	D		
			Mean =	71	100
17	AUTHORITY MTZ	12 oz/a	A 205	10	100
	WEEDMASTER @ 1.5 PT		A 510	20	100
	CLARITY	0.1875 lb ae/a	A 707	0	100
	2,4-D LV4	0.53813 lb ae/a	A 1011	40	100
	ROUNDUP POWERMAX	22 fl oz/a	A		
	COC	1 % v/v	A		
	N-PAK AMS	8.5 lb ai/100 gal	A		
	2,4-D LV4	16 fl oz/a	C		
	ROUNDUP POWERMAX	32 fl oz/a	C		
	N-PAK AMS	8.5 lb ai/100 gal	C		
			Mean =	18	100

# Purdue University Weed Science

Trt No.	Treatment Name	Rate	Unit	Appl Code	Plot	W Weed	W Weed
						XANST	ERICA
						Xanthium strum>	Conyza canadens>
						Heart-leaf coc>	Canada horsewe>
						PLOT P	PLOT P
						6/25/2014	7/22/2014
						CONTRO	CONTRO
						%	%
						232 29	259 56
						29 DA-D	56 DA-D
						P	P
						0	0
Trt No.	Treatment Name	Rate	Unit	Appl Code	Plot	17	18
18	AUTHORITY MTZ	12 oz/a		A	206	25	100
	WEEDMASTER @ 1.5 PT			A	509	90	100
	CLARITY	0.1875 lb ae/a		A	708	80	100
	2,4-D LV4	0.53813 lb ae/a		A	1012	90	100*
	ROUNDUP POWERMAX	22 fl oz/a		A			
	COC	1 % v/v		A			
	N-PAK AMS	8.5 lb ai/100 gal		A			
	SHARPEN	1 fl oz/a		D			
	ROUNDUP POWERMAX	32 fl oz/a		D			
	N-PAK AMS	8.5 lb ai/100 gal		D			
	FIREZONE - MSO	1 % v/v		D			
					Mean =	71	100
19	VALOR XLT @ 3 OZ			A	207	10	100
	VALOR SX	1.77 oz/a		A	401	5	100
	CLASSIC	1.24 oz/a		A	701	10	100
	2,4-D LV4	16 fl oz/a		A	1002	20	100
	ROUNDUP POWERMAX	22 fl oz/a		A			
	N-PAK AMS	8.5 lb ai/100 gal		A			
	2,4-D LV4	16 fl oz/a		C			
	ROUNDUP POWERMAX	32 fl oz/a		C			
	N-PAK AMS	8.5 lb ai/100 gal		C			
					Mean =	11	100
20	VALOR XLT @ 3 OZ			A	208	90	100
	VALOR SX	1.77 oz/a		A	402	70	100
	CLASSIC	1.24 oz/a		A	702	75	100
	2,4-D LV4	16 fl oz/a		A	1001	70	100
	ROUNDUP POWERMAX	22 fl oz/a		A			
	N-PAK AMS	8.5 lb ai/100 gal		A			
	SHARPEN	1 fl oz/a		D			
	ROUNDUP POWERMAX	32 fl oz/a		D			
	N-PAK AMS	8.5 lb ai/100 gal		D			
	FIREZONE - MSO	1 % v/v		D			
					Mean =	76	100
21	ROUNDUP POWERMAX	22 fl oz/a		A	209	85	100
	N-PAK AMS	2.5 % v/v		A	411	70	100
	ZIDUA	2 oz/a		B	703	25	100
	SHARPEN	2 fl oz/a		B	904	75	100
	ROUNDUP POWERMAX	32 fl oz/a		B			
	N-PAK AMS	8.5 lb ai/100 gal		B			
	FIREZONE - MSO	1 % v/v		B			
					Mean =	64	100
22	ROUNDUP POWERMAX	22 fl oz/a		A	210	75	100
	N-PAK AMS	2.5 % v/v		A	412	80	100
	ZIDUA	2 oz/a		D	704	70	100
	SHARPEN	1 fl oz/a		D	903	80	100
	ROUNDUP POWERMAX	32 fl oz/a		D			
	N-PAK AMS	8.5 lb ai/100 gal		D			
	FIREZONE - MSO	1 % v/v		D			
					Mean =	76	100

# Purdue University Weed Science

Trt No.	Treatment Name	Rate	Unit	Appl Code	Plot	W Weed	W Weed
						XANST	ERICA
						Xanthium strum>	Conyza canadens>
						Heart-leaf coc>	Canada horsewe>
						PLOT P	PLOT P
						6/25/2014	7/22/2014
						CONTRO	CONTRO
						%	%
						232 29	259 56
						29 DA-D	56 DA-D
						P	P
						0	0
Trt No.	Treatment Name	Rate	Unit	Appl Code	Plot	17	18
23	Untreated Check			A	211	75	99
	VALOR XLT @ 3 OZ			C	503	60	95
	VALOR SX	1.77 oz/a		C	804	30	100
	CLASSIC	1.24 oz/a		C	907	80	95
	2,4-D LV4	16 fl oz/a		C			
	ROUNDUP POWERMAX	22 fl oz/a		C			
	N-PAK AMS	8.5 lb ai/100 gal		C			
					Mean =	61	97
24	2,4-D LV4	16 fl oz/a		A	212	50	85
	ROUNDUP POWERMAX	22 fl oz/a		A	505	80	100
	N-PAK AMS	8.5 lb ai/100 gal		A	803	85	95
	VALOR XLT @ 3 OZ			C	908	100	80
	VALOR SX	1.77 oz/a		C			
	CLASSIC	1.24 oz/a		C			
	2,4-D LV4	16 fl oz/a		C			
	ROUNDUP POWERMAX	22 fl oz/a		C			
	N-PAK AMS	8.5 lb ai/100 gal		C			
					Mean =	79	90
25	BASIS BLEND @ 0.825 OZ			A	301	95	100
	RESOLVE	0.165 oz ai/a		A	511	90	100
	HARMONY SG	0.0825 oz ai/a		A	802	90	35
	CANOPY EX @ 2 OZ			A	1008	100	100
	CLASSIC	0.454 oz ai/a		A			
	EXPRESS	0.136 oz ai/a		A			
	2,4-D LV4	16 fl oz/a		A			
	ROUNDUP POWERMAX	22 fl oz/a		A			
	N-PAK AMS	8.5 lb ai/100 gal		A			
	VALOR XLT @ 3 OZ			C			
	VALOR SX	1.77 oz/a		C			
	CLASSIC	1.24 oz/a		C			
	2,4-D LV4	16 fl oz/a		C			
	ROUNDUP POWERMAX	22 fl oz/a		C			
	N-PAK AMS	8.5 lb ai/100 gal		C			
					Mean =	94	84
26	AUTHORITY MTZ	12 oz/a		A	302	85	100
	WEEDMASTER @ 1.5 PT			A	504	90	95
	CLARITY	0.1875 lb ae/a		A	709	87*	98*
	2,4-D LV4	0.53813 lb ae/a		A	905	95	100
	ROUNDUP POWERMAX	22 fl oz/a		A			
	COC	1 % v/v		A			
	N-PAK AMS	8.5 lb ai/100 gal		A			
	AUTHORITY XL	4 oz/a		C			
	2,4-D LV4	16 fl oz/a		C			
	ROUNDUP POWERMAX	22 fl oz/a		C			
	N-PAK AMS	8.5 lb ai/100 gal		C			
					Mean =	89	98

# Purdue University Weed Science

Pest Type	W Weed	W Weed	
Pest Code	XANST	ERICA	
Pest Scientific Name	Xanthium strum>	Conyza canadens>	
Pest Name	Heart-leaf coc>	Canada horsewe>	
Part Rated	PLOT P	PLOT P	
Rating Date	6/25/2014	7/22/2014	
Rating Type	CONTRO	CONTRO	
Rating Unit	%	%	
Days After First/Last Applic.	232 29	259 56	
Trt-Eval Interval	29 DA-D	56 DA-D	
ARM Action Codes	P	P	
Number of Decimals	0	0	

  

Trt Treatment	Rate	Appl	
No. Name	Rate Unit	Code Plot	
			17
27 VALOR XLT @ 3 OZ		A 303	85
VALOR SX	1.77 oz/a	A 310	75
CLASSIC	1.24 oz/a	A 606	60
2,4-D LV4	16 fl oz/a	A 1009	100
ROUNDUP POWERMAX	22 fl oz/a	A	
N-PAK AMS	8.5 lb ai/100 gal	A	
VALOR XLT @ 3 OZ		C	
VALOR SX	1.77 oz/a	C	
CLASSIC	1.24 oz/a	C	
2,4-D LV4	16 fl oz/a	C	
ROUNDUP POWERMAX	22 fl oz/a	C	
N-PAK AMS	8.5 lb ai/100 gal	C	
Mean =			80
28 ROUNDUP POWERMAX	22 fl oz/a	A 304	60
N-PAK AMS	8.5 lb ai/100 gal	A 506	0
ROUNDUP POWERMAX	22 fl oz/a	D 710	30
N-PAK AMS	8.5 lb ai/100 gal	D 906	10
Mean =			25
29 ROUNDUP POWERMAX	22 fl oz/a	A 305	20
N-PAK AMS	8.5 lb ai/100 gal	A 512	15
GRAMOXONE SL	3.5 pt/a	C 801	0
SENCOR	10 oz/a	C 1007	10
2,4-D LV4	16 fl oz/a	C	
COC	1 % v/v	C	
Mean =			11
30 VALOR XLT @ 3 OZ		A 306	5
VALOR SX	1.77 oz/a	A 309	25
CLASSIC	1.24 oz/a	A 605	50
2,4-D LV4	16 fl oz/a	A 1010	50
ROUNDUP POWERMAX	22 fl oz/a	A	
N-PAK AMS	8.5 lb ai/100 gal	A	
GRAMOXONE SL	3.5 pt/a	C	
SENCOR	10 oz/a	C	
2,4-D LV4	16 fl oz/a	C	
COC	1 % v/v	C	
Mean =			33

## Purdue University Weed Science

### Fall and Fall fb Spring Burndown Programs for Glyphosate-Resistant Marestalk in Soybean

Trial ID: 13F-SEP-NTS-03                      Location: SEPAC      Trial Year:  
Protocol ID: 13F-SEP-NTS-03                  Investigator: Dr. Bill Johnson  
Project ID: DEM-AWC-SoyFallBurndown      Study Director: Joe Ikley  
Sponsor Contact: BASF - Gery Welker

#### Pest Type

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

#### Pest Code

ERICA, Conyza canadensis, = US

ALLVI, Allium vineale, = US

AMBEL, Ambrosia artemisiifolia, = US

SETFA, Setaria faberi, = US

XANST, Xanthium strumarium, = US

#### Part Rated

PLOT = plot

P = Pest is Part Rated

#### Rating Type

CONTRO = control / burndown or knockdown

#### Rating Unit

% = percent

#### ARM Action Codes

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

# Purdue University Weed Science

## Fall and Fall fb Spring Burndown Programs for Glyphosate-Resistant Marestalk in Soybean

Trial ID: 13F-SEP-NTS-03      Location: SEPAC      Trial Year:  
 Protocol ID: 13F-SEP-NTS-03      Investigator: Dr. Bill Johnson  
 Project ID: DEM-AWC-SoyFallBurndown      Study Director: Joe Ikley  
    Sponsor Contact: BASF - Gery Welker

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	ERICA	ERICA	ALLVI	ERICA			
Pest Scientific Name	Conyza canadensis	Conyza canadensis	Allium vineale	Conyza canadensis			
Pest Name	Canada horseweed	Canada horseweed	Wild garlic	Canada horseweed			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P			
Rating Date	11/19/2013	4/24/2014	4/24/2014	5/27/2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%			
Days After First/Last Applic.	14 14	170 170	170 170	203 19			
Trt-Eval Interval	14 DA-A	170 DA-A	170 DA-A	0 DA-D			
ARM Action Codes	P	P	P	P			
Number of Decimals	0	0	0	0			
Trt Treatment No. Name	Rate	Rate Unit	Appl Code	1	2	3	4
1 ROUNDUP POWERMAX	22 fl oz/a	A		11 ghi	99 a	56 a	94 a
N-PAK AMS	2.5 % v/v	A					
2,4-D LV4	16 fl oz/a	C					
ROUNDUP POWERMAX	32 fl oz/a	C					
N-PAK AMS	8.5 lb ai/100 gal	C					
2 ROUNDUP POWERMAX	22 fl oz/a	A		9 ghi	100 a	63 a	94 a
N-PAK AMS	2.5 % v/v	A					
2,4-D LV4	16 fl oz/a	C					
ROUNDUP POWERMAX	32 fl oz/a	C					
N-PAK AMS	8.5 lb ai/100 gal	C					
FIREZONE - MSO	1 % v/v	C					
OPTILL	2 oz/a	C					
OUTLOOK	10 fl oz/a	C					
3 2,4-D LV4	16 fl oz/a	A		21 e-i	99 a	78 a	0 d
ROUNDUP POWERMAX	22 fl oz/a	A					
N-PAK AMS	8.5 lb ai/100 gal	A					
SHARPEN	2 fl oz/a	D					
ROUNDUP POWERMAX	32 fl oz/a	D					
N-PAK AMS	8.5 lb ai/100 gal	D					
FIREZONE - MSO	1 % v/v	D					
4 2,4-D LV4	16 fl oz/a	A		13 ghi	100 a	83 a	0 d
ROUNDUP POWERMAX	22 fl oz/a	A					
N-PAK AMS	8.5 lb ai/100 gal	A					
OPTILL	2 oz/a	D					
OUTLOOK	10 fl oz/a	D					
ROUNDUP POWERMAX	32 fl oz/a	D					
N-PAK AMS	8.5 lb ai/100 gal	D					
FIREZONE - MSO	1 % v/v	D					
5 ZIDUA	2 oz/a	A		24 e-i	100 a	78 a	0 d
DISTINCT	3 oz/a	A					
ROUNDUP POWERMAX	22 fl oz/a	A					
NIS	0.25 % v/v	A					
N-PAK AMS	8.5 lb ai/100 gal	A					
SHARPEN	2 fl oz/a	D					
ROUNDUP POWERMAX	32 fl oz/a	D					
N-PAK AMS	8.5 lb ai/100 gal	D					
FIREZONE - MSO	1 % v/v	D					

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=1,4,6,7,8,9,10,11,13,14,15,17; Average=5,12,16,18

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	ERICA	ERICA	ALLVI	ERICA			
Pest Scientific Name	Conyza canadens>	Conyza canadens>	Allium vineale	Conyza canadens>			
Pest Name	Canada horsewe>	Canada horsewe>	Wild garlic	Canada horsewe>			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P			
Rating Date	11/19/2013	4/24/2014	4/24/2014	5/27/2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%			
Days After First/Last Applic.	14 14	170 170	170 170	203 19			
Trt-Eval Interval	14 DA-A	170 DA-A	170 DA-A	0 DA-D			
ARM Action Codes	P	P	P	P			
Number of Decimals	0	0	0	0			
Trt Treatment No. Name	Rate	Rate Unit	Appl Code	1	2	3	4
6 ZIDUA	2 oz/a	A		24 e-i	98 a	55 a	0 d
DISTINCT	3 oz/a	A					
ROUNDUP POWERMAX	22 fl oz/a	A					
NIS	0.25 % v/v	A					
N-PAK AMS	8.5 lb ai/100 gal	A					
OPTILL	2 oz/a	D					
OUTLOOK	10 fl oz/a	D					
ROUNDUP POWERMAX	32 fl oz/a	D					
N-PAK AMS	8.5 lb ai/100 gal	D					
FIREZONE - MSO	1 % v/v	D					
7 ZIDUA	2 oz/a	A		19 e-i	99 a	94 a	100 a
SHARPEN	1 fl oz/a	A					
ROUNDUP POWERMAX	22 fl oz/a	A					
FIREZONE - MSO	1 % v/v	A					
N-PAK AMS	8.5 lb ai/100 gal	A					
2,4-D LV4	16 fl oz/a	C					
ROUNDUP POWERMAX	32 fl oz/a	C					
N-PAK AMS	8.5 lb ai/100 gal	C					
FIREZONE - MSO	1 % v/v	C					
OPTILL	2 oz/a	C					
OUTLOOK	10 fl oz/a	C					
8 ZIDUA	2 oz/a	A		86 ab	100 a	81 a	100 a
SHARPEN	1 fl oz/a	A					
ROUNDUP POWERMAX	22 fl oz/a	A					
FIREZONE - MSO	1 % v/v	A					
N-PAK AMS	8.5 lb ai/100 gal	A					
SHARPEN	1 fl oz/a	C					
2,4-D LV4	16 fl oz/a	C					
ROUNDUP POWERMAX	32 fl oz/a	C					
N-PAK AMS	8.5 lb ai/100 gal	C					
FIREZONE - MSO	1 % v/v	C					
9 2,4-D LV4	16 fl oz/a	A		34 d-i	100 a	84 a	0 d
DISTINCT	2 oz/a	A					
ROUNDUP POWERMAX	22 fl oz/a	A					
NIS	0.25 % v/v	A					
N-PAK AMS	8.5 lb ai/100 gal	A					
OPTILL	2 oz/a	D					
OUTLOOK	10 fl oz/a	D					
ROUNDUP POWERMAX	32 fl oz/a	D					
N-PAK AMS	8.5 lb ai/100 gal	D					
FIREZONE - MSO	1 % v/v	D					
10 2,4-D LV4	16 fl oz/a	A		34 d-i	95 a	89 a	0 d
DISTINCT	2 oz/a	A					
ROUNDUP POWERMAX	22 fl oz/a	A					
NIS	0.25 % v/v	A					
N-PAK AMS	8.5 lb ai/100 gal	A					
ZIDUA	2 oz/a	D					
SHARPEN	1 fl oz/a	D					
ROUNDUP POWERMAX	32 fl oz/a	D					
N-PAK AMS	8.5 lb ai/100 gal	D					
FIREZONE - MSO	1 % v/v	D					



# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed				
Pest Code	ERICA	ERICA	ALLVI	ERICA				
Pest Scientific Name	Conyza canadens>	Conyza canadens>	Allium vineale	Conyza canadens>				
Pest Name	Canada horsewe>	Canada horsewe>	Wild garlic	Canada horsewe>				
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P				
Rating Date	11/19/2013	4/24/2014	4/24/2014	5/27/2014				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%				
Days After First/Last Applic.	14 14	170 170	170 170	203 19				
Trt-Eval Interval	14 DA-A	170 DA-A	170 DA-A	0 DA-D				
ARM Action Codes	P	P	P	P				
Number of Decimals	0	0	0	0				
Trt No.	Treatment Name	Rate	Unit	Appl Code	1	2	3	4
11	SHARPEN	2 fl oz/a	A		78 abc	100 a	83 a	1 d
	2,4-D LV4	16 fl oz/a	A					
	ROUNDUP POWERMAX	22 fl oz/a	A					
	FIREZONE - MSO	1 % v/v	A					
	N-PAK AMS	8.5 lb ai/100 gal	A					
	OPTILL	2 oz/a	D					
	OUTLOOK	10 fl oz/a	D					
	ROUNDUP POWERMAX	32 fl oz/a	D					
	N-PAK AMS	8.5 lb ai/100 gal	D					
	FIREZONE - MSO	1 % v/v	D					
12	SHARPEN	2 fl oz/a	A		70 a-d	100 a	78 a	33 c
	2,4-D LV4	16 fl oz/a	A					
	ROUNDUP POWERMAX	22 fl oz/a	A					
	FIREZONE - MSO	1 % v/v	A					
	N-PAK AMS	8.5 lb ai/100 gal	A					
	ZIDUA	2 oz/a	D					
	SHARPEN	1 fl oz/a	D					
	ROUNDUP POWERMAX	32 fl oz/a	D					
	N-PAK AMS	8.5 lb ai/100 gal	D					
	FIREZONE - MSO	1 % v/v	D					
13	SHARPEN	2 fl oz/a	A		97 a	100 a	83 a	99 a
	SENCOR	10 oz/a	A					
	ROUNDUP POWERMAX	22 fl oz/a	A					
	FIREZONE - MSO	1 % v/v	A					
	N-PAK AMS	8.5 lb ai/100 gal	A					
	OPTILL	2 oz/a	D					
	OUTLOOK	10 fl oz/a	D					
	ROUNDUP POWERMAX	32 fl oz/a	D					
	N-PAK AMS	8.5 lb ai/100 gal	D					
	FIREZONE - MSO	1 % v/v	D					
14	SHARPEN	2 fl oz/a	A		96 a	100 a	86 a	95 a
	SENCOR	10 oz/a	A					
	ROUNDUP POWERMAX	22 fl oz/a	A					
	FIREZONE - MSO	1 % v/v	A					
	N-PAK AMS	8.5 lb ai/100 gal	A					
	ZIDUA	2 oz/a	D					
	SHARPEN	1 fl oz/a	D					
	ROUNDUP POWERMAX	32 fl oz/a	D					
	N-PAK AMS	8.5 lb ai/100 gal	D					
	FIREZONE - MSO	1 % v/v	D					
15	BASIS BLEND @ 0.825 OZ		A		9 ghi	100 a	100 a	100 a
	RESOLVE	0.165 oz ai/a	A					
	HARMONY SG	0.0825 oz ai/a	A					
	CANOPY EX @ 2 OZ		A					
	CLASSIC	0.454 oz ai/a	A					
	EXPRESS	0.136 oz ai/a	A					
	2,4-D LV4	16 fl oz/a	A					
	ROUNDUP POWERMAX	22 fl oz/a	A					
	N-PAK AMS	8.5 lb ai/100 gal	A					
	2,4-D LV4	16 fl oz/a	C					
	ROUNDUP POWERMAX	32 fl oz/a	C					
	N-PAK AMS	8.5 lb ai/100 gal	C					

## Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	ERICA	ERICA	ALLVI	ERICA			
Pest Scientific Name	Conyza canadens>	Conyza canadens>	Allium vineale	Conyza canadens>			
Pest Name	Canada horsewe>	Canada horsewe>	Wild garlic	Canada horsewe>			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P			
Rating Date	11/19/2013	4/24/2014	4/24/2014	5/27/2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%			
Days After First/Last Applic.	14 14	170 170	170 170	203 19			
Trt-Eval Interval	14 DA-A	170 DA-A	170 DA-A	0 DA-D			
ARM Action Codes	P	P	P	P			
Number of Decimals	0	0	0	0			
Trt Treatment No. Name	Rate	Rate Unit	Appl Code	1	2	3	4
16 BASIS BLEND @ 0.825 OZ			A	15 f-i	100 a	100 a	53 b
RESOLVE	0.165 oz ai/a		A				
HARMONY SG	0.0825 oz ai/a		A				
CANOPY EX @ 2 OZ			A				
CLASSIC	0.454 oz ai/a		A				
EXPRESS	0.136 oz ai/a		A				
2,4-D LV4	16 fl oz/a		A				
ROUNDUP POWERMAX	22 fl oz/a		A				
N-PAK AMS	8.5 lb ai/100 gal		A				
SHARPEN	1 fl oz/a		D				
ROUNDUP POWERMAX	32 fl oz/a		D				
N-PAK AMS	8.5 lb ai/100 gal		D				
FIREZONE - MSO	1 % v/v		D				
17 AUTHORITY MTZ	12 oz/a		A	80 abc	100 a	91 a	99 a
WEEDMASTER @ 1.5 PT			A				
CLARITY	0.1875 lb ae/a		A				
2,4-D LV4	0.53813 lb ae/a		A				
ROUNDUP POWERMAX	22 fl oz/a		A				
COC	1 % v/v		A				
N-PAK AMS	8.5 lb ai/100 gal		A				
2,4-D LV4	16 fl oz/a		C				
ROUNDUP POWERMAX	32 fl oz/a		C				
N-PAK AMS	8.5 lb ai/100 gal		C				
18 AUTHORITY MTZ	12 oz/a		A	70 a-d	100 a	89 a	80 a
WEEDMASTER @ 1.5 PT			A				
CLARITY	0.1875 lb ae/a		A				
2,4-D LV4	0.53813 lb ae/a		A				
ROUNDUP POWERMAX	22 fl oz/a		A				
COC	1 % v/v		A				
N-PAK AMS	8.5 lb ai/100 gal		A				
SHARPEN	1 fl oz/a		D				
ROUNDUP POWERMAX	32 fl oz/a		D				
N-PAK AMS	8.5 lb ai/100 gal		D				
FIREZONE - MSO	1 % v/v		D				
19 VALOR XLT @ 3 OZ			A	53 b-f	100 a	98 a	100 a
VALOR SX	1.77 oz/a		A				
CLASSIC	1.24 oz/a		A				
2,4-D LV4	16 fl oz/a		A				
ROUNDUP POWERMAX	22 fl oz/a		A				
N-PAK AMS	8.5 lb ai/100 gal		A				
2,4-D LV4	16 fl oz/a		C				
ROUNDUP POWERMAX	32 fl oz/a		C				
N-PAK AMS	8.5 lb ai/100 gal		C				
20 VALOR XLT @ 3 OZ			A	73 abc	100 a	99 a	98 a
VALOR SX	1.77 oz/a		A				
CLASSIC	1.24 oz/a		A				
2,4-D LV4	16 fl oz/a		A				
ROUNDUP POWERMAX	22 fl oz/a		A				
N-PAK AMS	8.5 lb ai/100 gal		A				
SHARPEN	1 fl oz/a		D				
ROUNDUP POWERMAX	32 fl oz/a		D				
N-PAK AMS	8.5 lb ai/100 gal		D				
FIREZONE - MSO	1 % v/v		D				

## Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	ERICA	ERICA	ALLVI	ERICA			
Pest Scientific Name	Conyza canadens>	Conyza canadens>	Allium vineale	Conyza canadens>			
Pest Name	Canada horsewe>	Canada horsewe>	Wild garlic	Canada horsewe>			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P			
Rating Date	11/19/2013	4/24/2014	4/24/2014	5/27/2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%			
Days After First/Last Applic.	14 14	170 170	170 170	203 19			
Trt-Eval Interval	14 DA-A	170 DA-A	170 DA-A	0 DA-D			
ARM Action Codes	P	P	P	P			
Number of Decimals	0	0	0	0			
Trt Treatment No. Name	Rate	Rate Unit	Appl Code	1	2	3	4
21 ROUNDUP POWERMAX N-PAK AMS ZIDUA SHARPEN ROUNDUP POWERMAX N-PAK AMS FIREZONE - MSO	22 fl oz/a 2.5 % v/v 2 oz/a 2 fl oz/a 32 fl oz/a 8.5 lb ai/100 gal 1 % v/v	A A B B B B B	A	6 hi	99 a	63 a	100 a
22 ROUNDUP POWERMAX N-PAK AMS ZIDUA SHARPEN ROUNDUP POWERMAX N-PAK AMS FIREZONE - MSO	22 fl oz/a 2.5 % v/v 2 oz/a 1 fl oz/a 32 fl oz/a 8.5 lb ai/100 gal 1 % v/v	A A D D D D D	A	11 ghi	96 a	63 a	0 d
23 Untreated Check VALOR XLT @ 3 OZ VALOR SX CLASSIC 2,4-D LV4 ROUNDUP POWERMAX N-PAK AMS	 1.77 oz/a 1.24 oz/a 16 fl oz/a 22 fl oz/a 8.5 lb ai/100 gal	A C C C C C C	A	1 i	0 b	0 b	76 a
24 2,4-D LV4 ROUNDUP POWERMAX N-PAK AMS VALOR XLT @ 3 OZ VALOR SX CLASSIC 2,4-D LV4 ROUNDUP POWERMAX N-PAK AMS	16 fl oz/a 22 fl oz/a 8.5 lb ai/100 gal  1.77 oz/a 1.24 oz/a 16 fl oz/a 22 fl oz/a 8.5 lb ai/100 gal	A A A C C C C C C	A	10 ghi	94 a	86 a	96 a
25 BASIS BLEND @ 0.825 OZ RESOLVE HARMONY SG CANOPY EX @ 2 OZ CLASSIC EXPRESS 2,4-D LV4 ROUNDUP POWERMAX N-PAK AMS VALOR XLT @ 3 OZ VALOR SX CLASSIC 2,4-D LV4 ROUNDUP POWERMAX N-PAK AMS	 0.165 oz ai/a 0.0825 oz ai/a  0.454 oz ai/a 0.136 oz ai/a 16 fl oz/a 22 fl oz/a 8.5 lb ai/100 gal  1.77 oz/a 1.24 oz/a 16 fl oz/a 22 fl oz/a 8.5 lb ai/100 gal	A A A A A A A A A C C C C C C	A	23 e-i	100 a	98 a	100 a
26 AUTHORITY MTZ WEEDMASTER @ 1.5 PT CLARITY 2,4-D LV4 ROUNDUP POWERMAX COC N-PAK AMS AUTHORITY XL 2,4-D LV4 ROUNDUP POWERMAX N-PAK AMS	12 oz/a  0.1875 lb ae/a 0.53813 lb ae/a 22 fl oz/a 1 % v/v 8.5 lb ai/100 gal 4 oz/a 16 fl oz/a 22 fl oz/a 8.5 lb ai/100 gal	A A A A A A A C C C C	A	50 b-g	100 a	88 a	100 a

## Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	ERICA	ERICA	ALLVI	ERICA			
Pest Scientific Name	Conyza canadens>	Conyza canadens>	Allium vineale	Conyza canadens>			
Pest Name	Canada horsewe>	Canada horsewe>	Wild garlic	Canada horsewe>			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P			
Rating Date	11/19/2013	4/24/2014	4/24/2014	5/27/2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%			
Days After First/Last Applic.	14 14	170 170	170 170	203 19			
Trt-Eval Interval	14 DA-A	170 DA-A	170 DA-A	0 DA-D			
ARM Action Codes	P	P	P	P			
Number of Decimals	0	0	0	0			
Trt Treatment No. Name	Rate	Rate Unit	Appl Code	1	2	3	4
27 VALOR XLT @ 3 OZ			A	58 b-e	100 a	89 a	100 a
VALOR SX	1.77 oz/a		A				
CLASSIC	1.24 oz/a		A				
2,4-D LV4	16 fl oz/a		A				
ROUNDUP POWERMAX	22 fl oz/a		A				
N-PAK AMS	8.5 lb ai/100 gal		A				
VALOR XLT @ 3 OZ			C				
VALOR SX	1.77 oz/a		C				
CLASSIC	1.24 oz/a		C				
2,4-D LV4	16 fl oz/a		C				
ROUNDUP POWERMAX	22 fl oz/a		C				
N-PAK AMS	8.5 lb ai/100 gal		C				
28 ROUNDUP POWERMAX	22 fl oz/a		A	8 hi	98 a	74 a	0 d
N-PAK AMS	8.5 lb ai/100 gal		A				
ROUNDUP POWERMAX	22 fl oz/a		D				
N-PAK AMS	8.5 lb ai/100 gal		D				
29 ROUNDUP POWERMAX	22 fl oz/a		A	0 i	96 a	81 a	100 a
N-PAK AMS	8.5 lb ai/100 gal		A				
GRAMOXONE SL	3.5 pt/a		C				
SENCOR	10 oz/a		C				
2,4-D LV4	16 fl oz/a		C				
COC	1 % v/v		C				
30 VALOR XLT @ 3 OZ			A	44 c-h	100 a	93 a	100 a
VALOR SX	1.77 oz/a		A				
CLASSIC	1.24 oz/a		A				
2,4-D LV4	16 fl oz/a		A				
ROUNDUP POWERMAX	22 fl oz/a		A				
N-PAK AMS	8.5 lb ai/100 gal		A				
GRAMOXONE SL	3.5 pt/a		C				
SENCOR	10 oz/a		C				
2,4-D LV4	16 fl oz/a		C				
COC	1 % v/v		C				
LSD (P=.05)				23.5	4.1	25.9	18.1
Standard Deviation				16.6	2.9	18.3	12.8
CV				44.43	3.01	22.94	20.03
Bartlett's X2				60.445	12.058	60.751	48.034
P(Bartlett's X2)				0.001*	0.21	0.001*	0.001*
Skewness				0.5975*	-5.0535*	-1.6276*	-0.7663*
Kurtosis				-1.153*	24.5981*	2.0903*	-1.3469*

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL	SETFA	ERICA	AMBEL
Pest Scientific Name	Ambrosia artem>	Setaria faberi	Conyza canaden>	Ambrosia artem>
Pest Name	Common ragweed	Giant foxtail	Canada horsewe>	Common ragweed
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	5/27/2014	5/27/2014	6/5/2014	6/5/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Days After First/Last Applic.	203 19	203 19	212 9	212 9
Trt-Eval Interval	0 DA-D	0 DA-D	9 DA-D	9 DA-D
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	5	6	7	8
No. Name	Rate	Rate	Rate	Rate
Unit	Unit	Unit	Unit	Unit
Appl Code	Appl Code	Appl Code	Appl Code	Appl Code
1 ROUNDUP POWERMAX	22 fl oz/a	A		
N-PAK AMS	2.5 % v/v	A		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
2 ROUNDUP POWERMAX	22 fl oz/a	A		
N-PAK AMS	2.5 % v/v	A		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
FIREZONE - MSO	1 % v/v	C		
OPTILL	2 oz/a	C		
OUTLOOK	10 fl oz/a	C		
3 2,4-D LV4	16 fl oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
SHARPEN	2 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
4 2,4-D LV4	16 fl oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
OPTILL	2 oz/a	D		
OUTLOOK	10 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
5 ZIDUA	2 oz/a	A		
DISTINCT	3 oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
NIS	0.25 % v/v	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
SHARPEN	2 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBEL	SETFA	ERICA	AMBEL			
Pest Scientific Name	Ambrosia artem>	Setaria faberi	Conyza canadens>	Ambrosia artem>			
Pest Name	Common ragweed	Giant foxtail	Canada horsewee>	Common ragweed			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P			
Rating Date	5/27/2014	5/27/2014	6/5/2014	6/5/2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%			
Days After First/Last Applic.	203 19	203 19	212 9	212 9			
Trt-Eval Interval	0 DA-D	0 DA-D	9 DA-D	9 DA-D			
ARM Action Codes	P	P	P	P			
Number of Decimals	0	0	0	0			
Trt Treatment No. Name	Rate	Rate Unit	Appl Code	5	6	7	8
6 ZIDUA	2 oz/a	A		0 c	0 d	96 a	100 a
DISTINCT	3 oz/a	A					
ROUNDUP POWERMAX	22 fl oz/a	A					
NIS	0.25 % v/v	A					
N-PAK AMS	8.5 lb ai/100 gal	A					
OPTILL	2 oz/a	D					
OUTLOOK	10 fl oz/a	D					
ROUNDUP POWERMAX	32 fl oz/a	D					
N-PAK AMS	8.5 lb ai/100 gal	D					
FIREZONE - MSO	1 % v/v	D					
7 ZIDUA	2 oz/a	A		99 a	100 a	100 a	98 a
SHARPEN	1 fl oz/a	A					
ROUNDUP POWERMAX	22 fl oz/a	A					
FIREZONE - MSO	1 % v/v	A					
N-PAK AMS	8.5 lb ai/100 gal	A					
2,4-D LV4	16 fl oz/a	C					
ROUNDUP POWERMAX	32 fl oz/a	C					
N-PAK AMS	8.5 lb ai/100 gal	C					
FIREZONE - MSO	1 % v/v	C					
OPTILL	2 oz/a	C					
OUTLOOK	10 fl oz/a	C					
8 ZIDUA	2 oz/a	A		99 a	95 a	100 a	98 a
SHARPEN	1 fl oz/a	A					
ROUNDUP POWERMAX	22 fl oz/a	A					
FIREZONE - MSO	1 % v/v	A					
N-PAK AMS	8.5 lb ai/100 gal	A					
SHARPEN	1 fl oz/a	C					
2,4-D LV4	16 fl oz/a	C					
ROUNDUP POWERMAX	32 fl oz/a	C					
N-PAK AMS	8.5 lb ai/100 gal	C					
FIREZONE - MSO	1 % v/v	C					
9 2,4-D LV4	16 fl oz/a	A		0 c	0 d	98 a	100 a
DISTINCT	2 oz/a	A					
ROUNDUP POWERMAX	22 fl oz/a	A					
NIS	0.25 % v/v	A					
N-PAK AMS	8.5 lb ai/100 gal	A					
OPTILL	2 oz/a	D					
OUTLOOK	10 fl oz/a	D					
ROUNDUP POWERMAX	32 fl oz/a	D					
N-PAK AMS	8.5 lb ai/100 gal	D					
FIREZONE - MSO	1 % v/v	D					
10 2,4-D LV4	16 fl oz/a	A		0 c	0 d	94 a	100 a
DISTINCT	2 oz/a	A					
ROUNDUP POWERMAX	22 fl oz/a	A					
NIS	0.25 % v/v	A					
N-PAK AMS	8.5 lb ai/100 gal	A					
ZIDUA	2 oz/a	D					
SHARPEN	1 fl oz/a	D					
ROUNDUP POWERMAX	32 fl oz/a	D					
N-PAK AMS	8.5 lb ai/100 gal	D					
FIREZONE - MSO	1 % v/v	D					

## Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBEL	SETFA	ERICA	AMBEL			
Pest Scientific Name	Ambrosia artem>	Setaria faberi	Conyza canadens>	Ambrosia artem>			
Pest Name	Common ragweed	Giant foxtail	Canada horsewee>	Common ragweed			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P			
Rating Date	5/27/2014	5/27/2014	6/5/2014	6/5/2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%			
Days After First/Last Applic.	203 19	203 19	212 9	212 9			
Trt-Eval Interval	0 DA-D	0 DA-D	9 DA-D	9 DA-D			
ARM Action Codes	P	P	P	P			
Number of Decimals	0	0	0	0			
Trt Treatment No. Name	Rate	Unit	Appl Code	5	6	7	8
11 SHARPEN	2 fl oz/a	A		0 c	0 d	100 a	100 a
2,4-D LV4	16 fl oz/a	A					
ROUNDUP POWERMAX	22 fl oz/a	A					
FIREZONE - MSO	1 % v/v	A					
N-PAK AMS	8.5 lb ai/100 gal	A					
OPTILL	2 oz/a	D					
OUTLOOK	10 fl oz/a	D					
ROUNDUP POWERMAX	32 fl oz/a	D					
N-PAK AMS	8.5 lb ai/100 gal	D					
FIREZONE - MSO	1 % v/v	D					
12 SHARPEN	2 fl oz/a	A		0 c	0 d	99 a	100 a
2,4-D LV4	16 fl oz/a	A					
ROUNDUP POWERMAX	22 fl oz/a	A					
FIREZONE - MSO	1 % v/v	A					
N-PAK AMS	8.5 lb ai/100 gal	A					
ZIDUA	2 oz/a	D					
SHARPEN	1 fl oz/a	D					
ROUNDUP POWERMAX	32 fl oz/a	D					
N-PAK AMS	8.5 lb ai/100 gal	D					
FIREZONE - MSO	1 % v/v	D					
13 SHARPEN	2 fl oz/a	A		95 a	0 d	100 a	100 a
SENCOR	10 oz/a	A					
ROUNDUP POWERMAX	22 fl oz/a	A					
FIREZONE - MSO	1 % v/v	A					
N-PAK AMS	8.5 lb ai/100 gal	A					
OPTILL	2 oz/a	D					
OUTLOOK	10 fl oz/a	D					
ROUNDUP POWERMAX	32 fl oz/a	D					
N-PAK AMS	8.5 lb ai/100 gal	D					
FIREZONE - MSO	1 % v/v	D					
14 SHARPEN	2 fl oz/a	A		88 a	0 d	100 a	100 a
SENCOR	10 oz/a	A					
ROUNDUP POWERMAX	22 fl oz/a	A					
FIREZONE - MSO	1 % v/v	A					
N-PAK AMS	8.5 lb ai/100 gal	A					
ZIDUA	2 oz/a	D					
SHARPEN	1 fl oz/a	D					
ROUNDUP POWERMAX	32 fl oz/a	D					
N-PAK AMS	8.5 lb ai/100 gal	D					
FIREZONE - MSO	1 % v/v	D					
15 BASIS BLEND @ 0.825 OZ		A		100 a	94 a	100 a	100 a
RESOLVE	0.165 oz ai/a	A					
HARMONY SG	0.0825 oz ai/a	A					
CANOPY EX @ 2 OZ		A					
CLASSIC	0.454 oz ai/a	A					
EXPRESS	0.136 oz ai/a	A					
2,4-D LV4	16 fl oz/a	A					
ROUNDUP POWERMAX	22 fl oz/a	A					
N-PAK AMS	8.5 lb ai/100 gal	A					
2,4-D LV4	16 fl oz/a	C					
ROUNDUP POWERMAX	32 fl oz/a	C					
N-PAK AMS	8.5 lb ai/100 gal	C					

## Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBEL	SETFA	ERICA	AMBEL			
Pest Scientific Name	Ambrosia artem>	Setaria faberi	Conyza canadens>	Ambrosia artem>			
Pest Name	Common ragweed	Giant foxtail	Canada horsewee>	Common ragweed			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P			
Rating Date	5/27/2014	5/27/2014	6/5/2014	6/5/2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%			
Days After First/Last Applic.	203 19	203 19	212 9	212 9			
Trt-Eval Interval	0 DA-D	0 DA-D	9 DA-D	9 DA-D			
ARM Action Codes	P	P	P	P			
Number of Decimals	0	0	0	0			
Trt Treatment No. Name	Rate	Rate Unit	Appl Code	5	6	7	8
16 BASIS BLEND @ 0.825 OZ			A	75 b	75 b	98 a	100 a
RESOLVE	0.165 oz ai/a		A				
HARMONY SG	0.0825 oz ai/a		A				
CANOPY EX @ 2 OZ			A				
CLASSIC	0.454 oz ai/a		A				
EXPRESS	0.136 oz ai/a		A				
2,4-D LV4	16 fl oz/a		A				
ROUNDUP POWERMAX	22 fl oz/a		A				
N-PAK AMS	8.5 lb ai/100 gal		A				
SHARPEN	1 fl oz/a		D				
ROUNDUP POWERMAX	32 fl oz/a		D				
N-PAK AMS	8.5 lb ai/100 gal		D				
FIREZONE - MSO	1 % v/v		D				
17 AUTHORITY MTZ	12 oz/a		A	96 a	95 a	100 a	94 a
WEEDMASTER @ 1.5 PT			A				
CLARITY	0.1875 lb ae/a		A				
2,4-D LV4	0.53813 lb ae/a		A				
ROUNDUP POWERMAX	22 fl oz/a		A				
COC	1 % v/v		A				
N-PAK AMS	8.5 lb ai/100 gal		A				
2,4-D LV4	16 fl oz/a		C				
ROUNDUP POWERMAX	32 fl oz/a		C				
N-PAK AMS	8.5 lb ai/100 gal		C				
18 AUTHORITY MTZ	12 oz/a		A	0 c	0 d	100 a	100 a
WEEDMASTER @ 1.5 PT			A				
CLARITY	0.1875 lb ae/a		A				
2,4-D LV4	0.53813 lb ae/a		A				
ROUNDUP POWERMAX	22 fl oz/a		A				
COC	1 % v/v		A				
N-PAK AMS	8.5 lb ai/100 gal		A				
SHARPEN	1 fl oz/a		D				
ROUNDUP POWERMAX	32 fl oz/a		D				
N-PAK AMS	8.5 lb ai/100 gal		D				
FIREZONE - MSO	1 % v/v		D				
19 VALOR XLT @ 3 OZ			A	100 a	100 a	100 a	100 a
VALOR SX	1.77 oz/a		A				
CLASSIC	1.24 oz/a		A				
2,4-D LV4	16 fl oz/a		A				
ROUNDUP POWERMAX	22 fl oz/a		A				
N-PAK AMS	8.5 lb ai/100 gal		A				
2,4-D LV4	16 fl oz/a		C				
ROUNDUP POWERMAX	32 fl oz/a		C				
N-PAK AMS	8.5 lb ai/100 gal		C				
20 VALOR XLT @ 3 OZ			A	95 a	63 c	100 a	100 a
VALOR SX	1.77 oz/a		A				
CLASSIC	1.24 oz/a		A				
2,4-D LV4	16 fl oz/a		A				
ROUNDUP POWERMAX	22 fl oz/a		A				
N-PAK AMS	8.5 lb ai/100 gal		A				
SHARPEN	1 fl oz/a		D				
ROUNDUP POWERMAX	32 fl oz/a		D				
N-PAK AMS	8.5 lb ai/100 gal		D				
FIREZONE - MSO	1 % v/v		D				



## Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	AMBEL	SETFA	ERICA	AMBEL			
Pest Scientific Name	Ambrosia artem>	Setaria faberi	Conyza canadens>	Ambrosia artem>			
Pest Name	Common ragweed	Giant foxtail	Canada horsewe>	Common ragweed			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P			
Rating Date	5/27/2014	5/27/2014	6/5/2014	6/5/2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%			
Days After First/Last Applic.	203 19	203 19	212 9	212 9			
Trt-Eval Interval	0 DA-D	0 DA-D	9 DA-D	9 DA-D			
ARM Action Codes	P	P	P	P			
Number of Decimals	0	0	0	0			
Trt Treatment No. Name	Rate	Rate Unit	Appl Code	5	6	7	8
21 ROUNDUP POWERMAX N-PAK AMS ZIDUA SHARPEN ROUNDUP POWERMAX N-PAK AMS FIREZONE - MSO	22 fl oz/a 2.5 % v/v 2 oz/a 2 fl oz/a 32 fl oz/a 8.5 lb ai/100 gal 1 % v/v	A A B B B B B	A A B B B B B	100 a	100 a	100 a	100 a
22 ROUNDUP POWERMAX N-PAK AMS ZIDUA SHARPEN ROUNDUP POWERMAX N-PAK AMS FIREZONE - MSO	22 fl oz/a 2.5 % v/v 2 oz/a 1 fl oz/a 32 fl oz/a 8.5 lb ai/100 gal 1 % v/v	A A D D D D D	A A D D D D D	0 c	0 d	100 a	100 a
23 Untreated Check VALOR XLT @ 3 OZ VALOR SX CLASSIC 2,4-D LV4 ROUNDUP POWERMAX N-PAK AMS	   1.77 oz/a 1.24 oz/a 16 fl oz/a 22 fl oz/a 8.5 lb ai/100 gal	A C C C C C C	A C C C C C C	100 a	100 a	77 b	100 a
24 2,4-D LV4 ROUNDUP POWERMAX N-PAK AMS VALOR XLT @ 3 OZ VALOR SX CLASSIC 2,4-D LV4 ROUNDUP POWERMAX N-PAK AMS	16 fl oz/a 22 fl oz/a 8.5 lb ai/100 gal  1.77 oz/a 1.24 oz/a 16 fl oz/a 22 fl oz/a 8.5 lb ai/100 gal	A A A C C C C C C	A A A C C C C C C	95 a	100 a	90 a	93 a
25 BASIS BLEND @ 0.825 OZ RESOLVE HARMONY SG CANOPY EX @ 2 OZ CLASSIC EXPRESS 2,4-D LV4 ROUNDUP POWERMAX N-PAK AMS VALOR XLT @ 3 OZ VALOR SX CLASSIC 2,4-D LV4 ROUNDUP POWERMAX N-PAK AMS	 0.165 oz ai/a 0.0825 oz ai/a  0.454 oz ai/a 0.136 oz ai/a 16 fl oz/a 22 fl oz/a 8.5 lb ai/100 gal  1.77 oz/a 1.24 oz/a 16 fl oz/a 22 fl oz/a 8.5 lb ai/100 gal	A A A A A A A A A C C C C C C	A A A A A A A A A C C C C C C	100 a	100 a	99 a	98 a
26 AUTHORITY MTZ WEEDMASTER @ 1.5 PT CLARITY 2,4-D LV4 ROUNDUP POWERMAX COC N-PAK AMS AUTHORITY XL 2,4-D LV4 ROUNDUP POWERMAX N-PAK AMS	12 oz/a  0.1875 lb ae/a 0.53813 lb ae/a 22 fl oz/a 1 % v/v 8.5 lb ai/100 gal 4 oz/a 16 fl oz/a 22 fl oz/a 8.5 lb ai/100 gal	A A A A A A A C C C C	A A A A A A A C C C C	100 a	100 a	100 a	100 a

## Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL	SETFA	ERICA	AMBEL
Pest Scientific Name	Ambrosia artem>	Setaria faberi	Conyza canadens>	Ambrosia artem>
Pest Name	Common ragweed	Giant foxtail	Canada horsewe>	Common ragweed
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	5/27/2014	5/27/2014	6/5/2014	6/5/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Days After First/Last Applic.	203 19	203 19	212 9	212 9
Trt-Eval Interval	0 DA-D	0 DA-D	9 DA-D	9 DA-D
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Rate	Rate	Rate
No. Name	Unit	Unit	Unit	Unit
Code	5	6	7	8
27 VALOR XLT @ 3 OZ				
VALOR SX	1.77 oz/a			
CLASSIC	1.24 oz/a			
2,4-D LV4	16 fl oz/a			
ROUNDUP POWERMAX	22 fl oz/a			
N-PAK AMS	8.5 lb ai/100 gal			
VALOR XLT @ 3 OZ				
VALOR SX	1.77 oz/a			
CLASSIC	1.24 oz/a			
2,4-D LV4	16 fl oz/a			
ROUNDUP POWERMAX	22 fl oz/a			
N-PAK AMS	8.5 lb ai/100 gal			
28 ROUNDUP POWERMAX	22 fl oz/a			
N-PAK AMS	8.5 lb ai/100 gal			
ROUNDUP POWERMAX	22 fl oz/a			
N-PAK AMS	8.5 lb ai/100 gal			
29 ROUNDUP POWERMAX	22 fl oz/a			
N-PAK AMS	8.5 lb ai/100 gal			
GRAMOXONE SL	3.5 pt/a			
SENCOR	10 oz/a			
2,4-D LV4	16 fl oz/a			
COC	1 % v/v			
30 VALOR XLT @ 3 OZ				
VALOR SX	1.77 oz/a			
CLASSIC	1.24 oz/a			
2,4-D LV4	16 fl oz/a			
ROUNDUP POWERMAX	22 fl oz/a			
N-PAK AMS	8.5 lb ai/100 gal			
GRAMOXONE SL	3.5 pt/a			
SENCOR	10 oz/a			
2,4-D LV4	16 fl oz/a			
COC	1 % v/v			
LSD (P=.05)	7.5	6.6	10.1	5.9
Standard Deviation	5.3	4.7	7.2	4.1
CV	8.67	8.74	7.58	4.23
Bartlett's X2	56.695	41.078	34.798	68.615
P(Bartlett's X2)	0.001*	0.001*	0.001*	0.001*
Skewness	-0.5821*	-0.2665	-4.7639*	-4.5733*
Kurtosis	-1.6525*	-1.9107*	22.9541*	24.3517*

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed				
Pest Code	SETFA	ERICA	AMBEL	SETFA	XANST				
Pest Scientific Name	Setaria faberi	Conyza canadensis	Ambrosia artemisiifolia	Setaria faberi	Xanthium strumarium				
Pest Name	Giant foxtail	Canada horseweed	Common ragweed	Giant foxtail	Heart-leaf cocklebur				
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P				
Rating Date	6/5/2014	6/12/2014	6/12/2014	6/12/2014	6/12/2014				
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO				
Rating Unit	%	%	%	%	%				
Days After First/Last Applic.	212 9	219 16	219 16	219 16	219 16				
Trt-Eval Interval	9 DA-D	16 DA-D	16 DA-D	16 DA-D	16 DA-D				
ARM Action Codes	P	P	P	P	P				
Number of Decimals	0	0	0	0	0				
Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	9	10	11	12	13
1	ROUNDUP POWERMAX	22 fl oz/a	A		65 c	80 a	100 a	45 d	0 d
	N-PAK AMS	2.5 % v/v	A						
	2,4-D LV4	16 fl oz/a	C						
	ROUNDUP POWERMAX	32 fl oz/a	C						
	N-PAK AMS	8.5 lb ai/100 gal	C						
2	ROUNDUP POWERMAX	22 fl oz/a	A		95 ab	87 a	99 a	89 ab	84 ab
	N-PAK AMS	2.5 % v/v	A						
	2,4-D LV4	16 fl oz/a	C						
	ROUNDUP POWERMAX	32 fl oz/a	C						
	N-PAK AMS	8.5 lb ai/100 gal	C						
	FIREZONE - MSO	1 % v/v	C						
	OPTILL	2 oz/a	C						
	OUTLOOK	10 fl oz/a	C						
3	2,4-D LV4	16 fl oz/a	A		95 ab	100 a	99 a	93 ab	94 ab
	ROUNDUP POWERMAX	22 fl oz/a	A						
	N-PAK AMS	8.5 lb ai/100 gal	A						
	SHARPEN	2 fl oz/a	D						
	ROUNDUP POWERMAX	32 fl oz/a	D						
	N-PAK AMS	8.5 lb ai/100 gal	D						
	FIREZONE - MSO	1 % v/v	D						
4	2,4-D LV4	16 fl oz/a	A		100 a	95 a	99 a	100 a	99 ab
	ROUNDUP POWERMAX	22 fl oz/a	A						
	N-PAK AMS	8.5 lb ai/100 gal	A						
	OPTILL	2 oz/a	D						
	OUTLOOK	10 fl oz/a	D						
	ROUNDUP POWERMAX	32 fl oz/a	D						
	N-PAK AMS	8.5 lb ai/100 gal	D						
	FIREZONE - MSO	1 % v/v	D						
5	ZIDUA	2 oz/a	A		94 ab	100 a	96 a	96 a	99 ab
	DISTINCT	3 oz/a	A						
	ROUNDUP POWERMAX	22 fl oz/a	A						
	NIS	0.25 % v/v	A						
	N-PAK AMS	8.5 lb ai/100 gal	A						
	SHARPEN	2 fl oz/a	D						
	ROUNDUP POWERMAX	32 fl oz/a	D						
	N-PAK AMS	8.5 lb ai/100 gal	D						
	FIREZONE - MSO	1 % v/v	D						

## Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	ERICA	AMBEL	SETFA	XANST			
Pest Scientific Name	Setaria faberi	Conyza canadens>	Ambrosia artem>	Setaria faberi	Xanthium strum>			
Pest Name	Giant foxtail	Canada horsewe>	Common ragweed	Giant foxtail	Heart-leaf coc>			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P			
Rating Date	6/5/2014	6/12/2014	6/12/2014	6/12/2014	6/12/2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Days After First/Last Applic.	212 9	219 16	219 16	219 16	219 16			
Trt-Eval Interval	9 DA-D	16 DA-D	16 DA-D	16 DA-D	16 DA-D			
ARM Action Codes	P	P	P	P	P			
Number of Decimals	0	0	0	0	0			
Trt Treatment No. Name	Rate	Rate Unit	Appl Code	9	10	11	12	13
6 ZIDUA	2 oz/a	A		99 ab	97 a	100 a	100 a	100 a
DISTINCT	3 oz/a	A						
ROUNDUP POWERMAX	22 fl oz/a	A						
NIS	0.25 % v/v	A						
N-PAK AMS	8.5 lb ai/100 gal	A						
OPTILL	2 oz/a	D						
OUTLOOK	10 fl oz/a	D						
ROUNDUP POWERMAX	32 fl oz/a	D						
N-PAK AMS	8.5 lb ai/100 gal	D						
FIREZONE - MSO	1 % v/v	D						
7 ZIDUA	2 oz/a	A		99 ab	100 a	95 a	93 ab	70 ab
SHARPEN	1 fl oz/a	A						
ROUNDUP POWERMAX	22 fl oz/a	A						
FIREZONE - MSO	1 % v/v	A						
N-PAK AMS	8.5 lb ai/100 gal	A						
2,4-D LV4	16 fl oz/a	C						
ROUNDUP POWERMAX	32 fl oz/a	C						
N-PAK AMS	8.5 lb ai/100 gal	C						
FIREZONE - MSO	1 % v/v	C						
OPTILL	2 oz/a	C						
OUTLOOK	10 fl oz/a	C						
8 ZIDUA	2 oz/a	A		79 b	100 a	100 a	51 cd	15 d
SHARPEN	1 fl oz/a	A						
ROUNDUP POWERMAX	22 fl oz/a	A						
FIREZONE - MSO	1 % v/v	A						
N-PAK AMS	8.5 lb ai/100 gal	A						
SHARPEN	1 fl oz/a	C						
2,4-D LV4	16 fl oz/a	C						
ROUNDUP POWERMAX	32 fl oz/a	C						
N-PAK AMS	8.5 lb ai/100 gal	C						
FIREZONE - MSO	1 % v/v	C						
9 2,4-D LV4	16 fl oz/a	A		99 ab	94 a	100 a	99 a	95 ab
DISTINCT	2 oz/a	A						
ROUNDUP POWERMAX	22 fl oz/a	A						
NIS	0.25 % v/v	A						
N-PAK AMS	8.5 lb ai/100 gal	A						
OPTILL	2 oz/a	D						
OUTLOOK	10 fl oz/a	D						
ROUNDUP POWERMAX	32 fl oz/a	D						
N-PAK AMS	8.5 lb ai/100 gal	D						
FIREZONE - MSO	1 % v/v	D						
10 2,4-D LV4	16 fl oz/a	A		99 ab	88 a	100 a	96 a	98 ab
DISTINCT	2 oz/a	A						
ROUNDUP POWERMAX	22 fl oz/a	A						
NIS	0.25 % v/v	A						
N-PAK AMS	8.5 lb ai/100 gal	A						
ZIDUA	2 oz/a	D						
SHARPEN	1 fl oz/a	D						
ROUNDUP POWERMAX	32 fl oz/a	D						
N-PAK AMS	8.5 lb ai/100 gal	D						
FIREZONE - MSO	1 % v/v	D						

## Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	ERICA	AMBEL	SETFA	XANST			
Pest Scientific Name	Setaria faberi	Conyza canadens>	Ambrosia artem>	Setaria faberi	Xanthium strum>			
Pest Name	Giant foxtail	Canada horsewe>	Common ragweed	Giant foxtail	Heart-leaf coc>			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P			
Rating Date	6/5/2014	6/12/2014	6/12/2014	6/12/2014	6/12/2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Days After First/Last Applic.	212 9	219 16	219 16	219 16	219 16			
Trt-Eval Interval	9 DA-D	16 DA-D	16 DA-D	16 DA-D	16 DA-D			
ARM Action Codes	P	P	P	P	P			
Number of Decimals	0	0	0	0	0			
Trt Treatment No. Name	Rate	Unit	Appl Code	9	10	11	12	13
11 SHARPEN	2 fl oz/a	A		100 a	99 a	99 a	99 a	100 a
2,4-D LV4	16 fl oz/a	A						
ROUNDUP POWERMAX	22 fl oz/a	A						
FIREZONE - MSO	1 % v/v	A						
N-PAK AMS	8.5 lb ai/100 gal	A						
OPTILL	2 oz/a	D						
OUTLOOK	10 fl oz/a	D						
ROUNDUP POWERMAX	32 fl oz/a	D						
N-PAK AMS	8.5 lb ai/100 gal	D						
FIREZONE - MSO	1 % v/v	D						
12 SHARPEN	2 fl oz/a	A		97 ab	97 a	93 a	95 a	95 ab
2,4-D LV4	16 fl oz/a	A						
ROUNDUP POWERMAX	22 fl oz/a	A						
FIREZONE - MSO	1 % v/v	A						
N-PAK AMS	8.5 lb ai/100 gal	A						
ZIDUA	2 oz/a	D						
SHARPEN	1 fl oz/a	D						
ROUNDUP POWERMAX	32 fl oz/a	D						
N-PAK AMS	8.5 lb ai/100 gal	D						
FIREZONE - MSO	1 % v/v	D						
13 SHARPEN	2 fl oz/a	A		100 a	100 a	100 a	100 a	90 ab
SENCOR	10 oz/a	A						
ROUNDUP POWERMAX	22 fl oz/a	A						
FIREZONE - MSO	1 % v/v	A						
N-PAK AMS	8.5 lb ai/100 gal	A						
OPTILL	2 oz/a	D						
OUTLOOK	10 fl oz/a	D						
ROUNDUP POWERMAX	32 fl oz/a	D						
N-PAK AMS	8.5 lb ai/100 gal	D						
FIREZONE - MSO	1 % v/v	D						
14 SHARPEN	2 fl oz/a	A		99 ab	99 a	98 a	100 a	93 ab
SENCOR	10 oz/a	A						
ROUNDUP POWERMAX	22 fl oz/a	A						
FIREZONE - MSO	1 % v/v	A						
N-PAK AMS	8.5 lb ai/100 gal	A						
ZIDUA	2 oz/a	D						
SHARPEN	1 fl oz/a	D						
ROUNDUP POWERMAX	32 fl oz/a	D						
N-PAK AMS	8.5 lb ai/100 gal	D						
FIREZONE - MSO	1 % v/v	D						
15 BASIS BLEND @ 0.825 OZ		A		80 ab	96 a	100 a	77 abc	90 ab
RESOLVE	0.165 oz ai/a	A						
HARMONY SG	0.0825 oz ai/a	A						
CANOPY EX @ 2 OZ		A						
CLASSIC	0.454 oz ai/a	A						
EXPRESS	0.136 oz ai/a	A						
2,4-D LV4	16 fl oz/a	A						
ROUNDUP POWERMAX	22 fl oz/a	A						
N-PAK AMS	8.5 lb ai/100 gal	A						
2,4-D LV4	16 fl oz/a	C						
ROUNDUP POWERMAX	32 fl oz/a	C						
N-PAK AMS	8.5 lb ai/100 gal	C						

## Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	ERICA	AMBEL	SETFA	XANST			
Pest Scientific Name	Setaria faberi	Conyza canadens>	Ambrosia artem>	Setaria faberi	Xanthium strum>			
Pest Name	Giant foxtail	Canada horsewe>	Common ragweed	Giant foxtail	Heart-leaf coc>			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P			
Rating Date	6/5/2014	6/12/2014	6/12/2014	6/12/2014	6/12/2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Days After First/Last Applic.	212 9	219 16	219 16	219 16	219 16			
Trt-Eval Interval	9 DA-D	16 DA-D	16 DA-D	16 DA-D	16 DA-D			
ARM Action Codes	P	P	P	P	P			
Number of Decimals	0	0	0	0	0			
Trt Treatment No. Name	Rate	Rate Unit	Appl Code	9	10	11	12	13
16 BASIS BLEND @ 0.825 OZ			A	98 ab	98 a	100 a	90 ab	89 ab
RESOLVE	0.165 oz ai/a		A					
HARMONY SG	0.0825 oz ai/a		A					
CANOPY EX @ 2 OZ			A					
CLASSIC	0.454 oz ai/a		A					
EXPRESS	0.136 oz ai/a		A					
2,4-D LV4	16 fl oz/a		A					
ROUNDUP POWERMAX	22 fl oz/a		A					
N-PAK AMS	8.5 lb ai/100 gal		A					
SHARPEN	1 fl oz/a		D					
ROUNDUP POWERMAX	32 fl oz/a		D					
N-PAK AMS	8.5 lb ai/100 gal		D					
FIREZONE - MSO	1 % v/v		D					
17 AUTHORITY MTZ	12 oz/a		A	84 ab	98 a	89 a	73 abc	63 abc
WEEDMASTER @ 1.5 PT			A					
CLARITY	0.1875 lb ae/a		A					
2,4-D LV4	0.53813 lb ae/a		A					
ROUNDUP POWERMAX	22 fl oz/a		A					
COC	1 % v/v		A					
N-PAK AMS	8.5 lb ai/100 gal		A					
2,4-D LV4	16 fl oz/a		C					
ROUNDUP POWERMAX	32 fl oz/a		C					
N-PAK AMS	8.5 lb ai/100 gal		C					
18 AUTHORITY MTZ	12 oz/a		A	95 ab	99 a	99 a	93 ab	93 ab
WEEDMASTER @ 1.5 PT			A					
CLARITY	0.1875 lb ae/a		A					
2,4-D LV4	0.53813 lb ae/a		A					
ROUNDUP POWERMAX	22 fl oz/a		A					
COC	1 % v/v		A					
N-PAK AMS	8.5 lb ai/100 gal		A					
SHARPEN	1 fl oz/a		D					
ROUNDUP POWERMAX	32 fl oz/a		D					
N-PAK AMS	8.5 lb ai/100 gal		D					
FIREZONE - MSO	1 % v/v		D					
19 VALOR XLT @ 3 OZ			A	95 ab	100 a	100 a	80 ab	40 c
VALOR SX	1.77 oz/a		A					
CLASSIC	1.24 oz/a		A					
2,4-D LV4	16 fl oz/a		A					
ROUNDUP POWERMAX	22 fl oz/a		A					
N-PAK AMS	8.5 lb ai/100 gal		A					
2,4-D LV4	16 fl oz/a		C					
ROUNDUP POWERMAX	32 fl oz/a		C					
N-PAK AMS	8.5 lb ai/100 gal		C					
20 VALOR XLT @ 3 OZ			A	99 ab	100 a	100 a	98 a	89 ab
VALOR SX	1.77 oz/a		A					
CLASSIC	1.24 oz/a		A					
2,4-D LV4	16 fl oz/a		A					
ROUNDUP POWERMAX	22 fl oz/a		A					
N-PAK AMS	8.5 lb ai/100 gal		A					
SHARPEN	1 fl oz/a		D					
ROUNDUP POWERMAX	32 fl oz/a		D					
N-PAK AMS	8.5 lb ai/100 gal		D					
FIREZONE - MSO	1 % v/v		D					

## Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	ERICA	AMBEL	SETFA	XANST			
Pest Scientific Name	Setaria faberi	Conyza canadens>	Ambrosia artem>	Setaria faberi	Xanthium strum>			
Pest Name	Giant foxtail	Canada horsewe>	Common ragweed	Giant foxtail	Heart-leaf coc>			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P			
Rating Date	6/5/2014	6/12/2014	6/12/2014	6/12/2014	6/12/2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Days After First/Last Applic.	212 9	219 16	219 16	219 16	219 16			
Trt-Eval Interval	9 DA-D	16 DA-D	16 DA-D	16 DA-D	16 DA-D			
ARM Action Codes	P	P	P	P	P			
Number of Decimals	0	0	0	0	0			
Trt Treatment No. Name	Rate	Rate Unit	Appl Code	9	10	11	12	13
21 ROUNDUP POWERMAX	22 fl oz/a	A		95 ab	100 a	99 a	88 ab	90 ab
N-PAK AMS	2.5 % v/v	A						
ZIDUA	2 oz/a	B						
SHARPEN	2 fl oz/a	B						
ROUNDUP POWERMAX	32 fl oz/a	B						
N-PAK AMS	8.5 lb ai/100 gal	B						
FIREZONE - MSO	1 % v/v	B						
22 ROUNDUP POWERMAX	22 fl oz/a	A		100 a	99 a	95 a	99 a	98 ab
N-PAK AMS	2.5 % v/v	A						
ZIDUA	2 oz/a	D						
SHARPEN	1 fl oz/a	D						
ROUNDUP POWERMAX	32 fl oz/a	D						
N-PAK AMS	8.5 lb ai/100 gal	D						
FIREZONE - MSO	1 % v/v	D						
23 Untreated Check		A		100 a	81 a	100 a	91 ab	93 ab
VALOR XLT @ 3 OZ		C						
VALOR SX	1.77 oz/a	C						
CLASSIC	1.24 oz/a	C						
2,4-D LV4	16 fl oz/a	C						
ROUNDUP POWERMAX	22 fl oz/a	C						
N-PAK AMS	8.5 lb ai/100 gal	C						
24 2,4-D LV4	16 fl oz/a	A		88 ab	80 a	96 a	83 ab	94 ab
ROUNDUP POWERMAX	22 fl oz/a	A						
N-PAK AMS	8.5 lb ai/100 gal	A						
VALOR XLT @ 3 OZ		C						
VALOR SX	1.77 oz/a	C						
CLASSIC	1.24 oz/a	C						
2,4-D LV4	16 fl oz/a	C						
ROUNDUP POWERMAX	22 fl oz/a	C						
N-PAK AMS	8.5 lb ai/100 gal	C						
25 BASIS BLEND @ 0.825 OZ		A		100 a	93 a	95 a	98 a	100 a
RESOLVE	0.165 oz ai/a	A						
HARMONY SG	0.0825 oz ai/a	A						
CANOPY EX @ 2 OZ		A						
CLASSIC	0.454 oz ai/a	A						
EXPRESS	0.136 oz ai/a	A						
2,4-D LV4	16 fl oz/a	A						
ROUNDUP POWERMAX	22 fl oz/a	A						
N-PAK AMS	8.5 lb ai/100 gal	A						
VALOR XLT @ 3 OZ		C						
VALOR SX	1.77 oz/a	C						
CLASSIC	1.24 oz/a	C						
2,4-D LV4	16 fl oz/a	C						
ROUNDUP POWERMAX	22 fl oz/a	C						
N-PAK AMS	8.5 lb ai/100 gal	C						
26 AUTHORITY MTZ	12 oz/a	A		97 ab	97 a	98 a	98 a	96 ab
WEEDMASTER @ 1.5 PT		A						
CLARITY	0.1875 lb ae/a	A						
2,4-D LV4	0.53813 lb ae/a	A						
ROUNDUP POWERMAX	22 fl oz/a	A						
COC	1 % v/v	A						
N-PAK AMS	8.5 lb ai/100 gal	A						
AUTHORITY XL	4 oz/a	C						
2,4-D LV4	16 fl oz/a	C						
ROUNDUP POWERMAX	22 fl oz/a	C						
N-PAK AMS	8.5 lb ai/100 gal	C						

## Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed			
Pest Code	SETFA	ERICA	AMBEL	SETFA	XANST			
Pest Scientific Name	Setaria faberi	Conyza canadens>	Ambrosia artem>	Setaria faberi	Xanthium strum>			
Pest Name	Giant foxtail	Canada horsewe>	Common ragweed	Giant foxtail	Heart-leaf coc>			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P			
Rating Date	6/5/2014	6/12/2014	6/12/2014	6/12/2014	6/12/2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%	%			
Days After First/Last Applic.	212 9	219 16	219 16	219 16	219 16			
Trt-Eval Interval	9 DA-D	16 DA-D	16 DA-D	16 DA-D	16 DA-D			
ARM Action Codes	P	P	P	P	P			
Number of Decimals	0	0	0	0	0			
Trt Treatment No. Name	Rate	Rate Unit	Appl Code	9	10	11	12	13
27 VALOR XLT @ 3 OZ			A	100 a	100 a	100 a	91 ab	95 ab
VALOR SX	1.77 oz/a		A					
CLASSIC	1.24 oz/a		A					
2,4-D LV4	16 fl oz/a		A					
ROUNDUP POWERMAX	22 fl oz/a		A					
N-PAK AMS	8.5 lb ai/100 gal		A					
VALOR XLT @ 3 OZ			C					
VALOR SX	1.77 oz/a		C					
CLASSIC	1.24 oz/a		C					
2,4-D LV4	16 fl oz/a		C					
ROUNDUP POWERMAX	22 fl oz/a		C					
N-PAK AMS	8.5 lb ai/100 gal		C					
28 ROUNDUP POWERMAX	22 fl oz/a		A	100 a	9 b	76 b	100 a	75 ab
N-PAK AMS	8.5 lb ai/100 gal		A					
ROUNDUP POWERMAX	22 fl oz/a		D					
N-PAK AMS	8.5 lb ai/100 gal		D					
29 ROUNDUP POWERMAX	22 fl oz/a		A	86 ab	100 a	99 a	63 bcd	73 ab
N-PAK AMS	8.5 lb ai/100 gal		A					
GRAMOXONE SL	3.5 pt/a		C					
SENCOR	10 oz/a		C					
2,4-D LV4	16 fl oz/a		C					
COC	1 % v/v		C					
30 VALOR XLT @ 3 OZ			A	79 b	100 a	100 a	70 abc	60 bc
VALOR SX	1.77 oz/a		A					
CLASSIC	1.24 oz/a		A					
2,4-D LV4	16 fl oz/a		A					
ROUNDUP POWERMAX	22 fl oz/a		A					
N-PAK AMS	8.5 lb ai/100 gal		A					
GRAMOXONE SL	3.5 pt/a		C					
SENCOR	10 oz/a		C					
2,4-D LV4	16 fl oz/a		C					
COC	1 % v/v		C					
LSD (P=.05)				11.2	11.2	6.3	18.3	21.2
Standard Deviation				7.9	7.9	4.4	12.9	15.0
CV				8.42	8.52	4.56	14.7	18.21
Bartlett's X2				63.309	57.223	43.097	111.6	99.591
P(Bartlett's X2)				0.001*	0.001*	0.001*	0.001*	0.001*
Skewness				-2.7719*	-3.8927*	-3.3922*	-2.7547*	-2.0198*
Kurtosis				10.1131*	16.3903*	12.8919*	9.1274*	3.0404*



# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed		
Pest Code	ERICA	AMBEL	SETFA	XANST		
Pest Scientific Name	Conyza canadensis	Ambrosia artem	Setaria faberi	Xanthium strum		
Pest Name	Canada horsewee	Common ragweed	Giant foxtail	Heart-leaf coc		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	6/25/2014	6/25/2014	6/25/2014	6/25/2014		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%		
Days After First/Last Applic.	232 29	232 29	232 29	232 29		
Trt-Eval Interval	29 DA-D	29 DA-D	29 DA-D	29 DA-D		
ARM Action Codes	P	P	P	P		
Number of Decimals	0	0	0	0		
Trt Treatment	Rate	Rate	Rate	Rate		
No. Name	Unit	Unit	Unit	Unit		
Code	14	15	16	17		
1 ROUNDUP POWERMAX	22 fl oz/a	A	66 b	96 ab	20 e	0 e
N-PAK AMS	2.5 % v/v	A				
2,4-D LV4	16 fl oz/a	C				
ROUNDUP POWERMAX	32 fl oz/a	C				
N-PAK AMS	8.5 lb ai/100 gal	C				
2 ROUNDUP POWERMAX	22 fl oz/a	A	80 ab	88 ab	45 a-e	53 a-d
N-PAK AMS	2.5 % v/v	A				
2,4-D LV4	16 fl oz/a	C				
ROUNDUP POWERMAX	32 fl oz/a	C				
N-PAK AMS	8.5 lb ai/100 gal	C				
FIREZONE - MSO	1 % v/v	C				
OPTILL	2 oz/a	C				
OUTLOOK	10 fl oz/a	C				
3 2,4-D LV4	16 fl oz/a	A	100 a	96 ab	46 a-e	74 ab
ROUNDUP POWERMAX	22 fl oz/a	A				
N-PAK AMS	8.5 lb ai/100 gal	A				
SHARPEN	2 fl oz/a	D				
ROUNDUP POWERMAX	32 fl oz/a	D				
N-PAK AMS	8.5 lb ai/100 gal	D				
FIREZONE - MSO	1 % v/v	D				
4 2,4-D LV4	16 fl oz/a	A	87 ab	98 ab	93 a	90 a
ROUNDUP POWERMAX	22 fl oz/a	A				
N-PAK AMS	8.5 lb ai/100 gal	A				
OPTILL	2 oz/a	D				
OUTLOOK	10 fl oz/a	D				
ROUNDUP POWERMAX	32 fl oz/a	D				
N-PAK AMS	8.5 lb ai/100 gal	D				
FIREZONE - MSO	1 % v/v	D				
5 ZIDUA	2 oz/a	A	100 a	96 ab	54 a-e	91 a
DISTINCT	3 oz/a	A				
ROUNDUP POWERMAX	22 fl oz/a	A				
NIS	0.25 % v/v	A				
N-PAK AMS	8.5 lb ai/100 gal	A				
SHARPEN	2 fl oz/a	D				
ROUNDUP POWERMAX	32 fl oz/a	D				
N-PAK AMS	8.5 lb ai/100 gal	D				
FIREZONE - MSO	1 % v/v	D				

## Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	AMBEL	SETFA	XANST
Pest Scientific Name	Conyza canadens>	Ambrosia artem>	Setaria faberi	Xanthium strum>
Pest Name	Canada horsewe>	Common ragweed	Giant foxtail	Heart-leaf coc>
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	6/25/2014	6/25/2014	6/25/2014	6/25/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Days After First/Last Applic.	232 29	232 29	232 29	232 29
Trt-Eval Interval	29 DA-D	29 DA-D	29 DA-D	29 DA-D
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment No. Name	Rate	Rate Unit	Appl Code	
				14
6 ZIDUA	2 oz/a	A		89 ab
DISTINCT	3 oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
NIS	0.25 % v/v	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
OPTILL	2 oz/a	D		
OUTLOOK	10 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
7 ZIDUA	2 oz/a	A		100 a
SHARPEN	1 fl oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
FIREZONE - MSO	1 % v/v	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
FIREZONE - MSO	1 % v/v	C		
OPTILL	2 oz/a	C		
OUTLOOK	10 fl oz/a	C		
8 ZIDUA	2 oz/a	A		99 ab
SHARPEN	1 fl oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
FIREZONE - MSO	1 % v/v	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
SHARPEN	1 fl oz/a	C		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
FIREZONE - MSO	1 % v/v	C		
9 2,4-D LV4	16 fl oz/a	A		79 ab
DISTINCT	2 oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
NIS	0.25 % v/v	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
OPTILL	2 oz/a	D		
OUTLOOK	10 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
10 2,4-D LV4	16 fl oz/a	A		74 ab
DISTINCT	2 oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
NIS	0.25 % v/v	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
ZIDUA	2 oz/a	D		
SHARPEN	1 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
				15
				16
				17
				88 a
				96 a
				88 ab
				75 abc
				50 a-d
				93 ab
				28 cde
				6 e
				96 ab
				90 a
				90 a
				95 ab
				73 a-d
				78 ab

## Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	AMBEL	SETFA	XANST
Pest Scientific Name	Conyza canadensis>	Ambrosia artem>	Setaria faberi	Xanthium strum>
Pest Name	Canada horsewe>	Common ragweed	Giant foxtail	Heart-leaf coc>
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	6/25/2014	6/25/2014	6/25/2014	6/25/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Days After First/Last Applic.	232 29	232 29	232 29	232 29
Trt-Eval Interval	29 DA-D	29 DA-D	29 DA-D	29 DA-D
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment No. Name	Rate	Unit	Appl Code	
				14
11 SHARPEN	2 fl oz/a	A		96 ab
2,4-D LV4	16 fl oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
FIREZONE - MSO	1 % v/v	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
OPTILL	2 oz/a	D		
OUTLOOK	10 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
12 SHARPEN	2 fl oz/a	A		95 ab
2,4-D LV4	16 fl oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
FIREZONE - MSO	1 % v/v	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
ZIDUA	2 oz/a	D		
SHARPEN	1 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
13 SHARPEN	2 fl oz/a	A		100 a
SENCOR	10 oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
FIREZONE - MSO	1 % v/v	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
OPTILL	2 oz/a	D		
OUTLOOK	10 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
14 SHARPEN	2 fl oz/a	A		98 ab
SENCOR	10 oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
FIREZONE - MSO	1 % v/v	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
ZIDUA	2 oz/a	D		
SHARPEN	1 fl oz/a	D		
ROUNDUP POWERMAX	32 fl oz/a	D		
N-PAK AMS	8.5 lb ai/100 gal	D		
FIREZONE - MSO	1 % v/v	D		
15 BASIS BLEND @ 0.825 OZ		A		96 ab
RESOLVE	0.165 oz ai/a	A		
HARMONY SG	0.0825 oz ai/a	A		
CANOPY EX @ 2 OZ		A		
CLASSIC	0.454 oz ai/a	A		
EXPRESS	0.136 oz ai/a	A		
2,4-D LV4	16 fl oz/a	A		
ROUNDUP POWERMAX	22 fl oz/a	A		
N-PAK AMS	8.5 lb ai/100 gal	A		
2,4-D LV4	16 fl oz/a	C		
ROUNDUP POWERMAX	32 fl oz/a	C		
N-PAK AMS	8.5 lb ai/100 gal	C		
				100 a
				89 a
				63 a-e
				67 abc
				91 a
				76 ab
				89 a
				60 abc
				33 b-e
				75 ab

## Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	AMBEL	SETFA	XANST
Pest Scientific Name	Conyza canadens>	Ambrosia artem>	Setaria faberi	Xanthium strum>
Pest Name	Canada horsewe>	Common ragweed	Giant foxtail	Heart-leaf coc>
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	6/25/2014	6/25/2014	6/25/2014	6/25/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Days After First/Last Applic.	232 29	232 29	232 29	232 29
Trt-Eval Interval	29 DA-D	29 DA-D	29 DA-D	29 DA-D
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment No. Name	Rate	Rate Unit	Appl Code	
				14
16 BASIS BLEND @ 0.825 OZ			A	96 ab
RESOLVE	0.165 oz ai/a		A	
HARMONY SG	0.0825 oz ai/a		A	
CANOPY EX @ 2 OZ			A	
CLASSIC	0.454 oz ai/a		A	
EXPRESS	0.136 oz ai/a		A	
2,4-D LV4	16 fl oz/a		A	
ROUNDUP POWERMAX	22 fl oz/a		A	
N-PAK AMS	8.5 lb ai/100 gal		A	
SHARPEN	1 fl oz/a		D	
ROUNDUP POWERMAX	32 fl oz/a		D	
N-PAK AMS	8.5 lb ai/100 gal		D	
FIREZONE - MSO	1 % v/v		D	
17 AUTHORITY MTZ	12 oz/a		A	96 ab
WEEDMASTER @ 1.5 PT			A	
CLARITY	0.1875 lb ae/a		A	
2,4-D LV4	0.53813 lb ae/a		A	
ROUNDUP POWERMAX	22 fl oz/a		A	
COC	1 % v/v		A	
N-PAK AMS	8.5 lb ai/100 gal		A	
2,4-D LV4	16 fl oz/a		C	
ROUNDUP POWERMAX	32 fl oz/a		C	
N-PAK AMS	8.5 lb ai/100 gal		C	
18 AUTHORITY MTZ	12 oz/a		A	99 ab
WEEDMASTER @ 1.5 PT			A	
CLARITY	0.1875 lb ae/a		A	
2,4-D LV4	0.53813 lb ae/a		A	
ROUNDUP POWERMAX	22 fl oz/a		A	
COC	1 % v/v		A	
N-PAK AMS	8.5 lb ai/100 gal		A	
SHARPEN	1 fl oz/a		D	
ROUNDUP POWERMAX	32 fl oz/a		D	
N-PAK AMS	8.5 lb ai/100 gal		D	
FIREZONE - MSO	1 % v/v		D	
19 VALOR XLT @ 3 OZ			A	100 a
VALOR SX	1.77 oz/a		A	
CLASSIC	1.24 oz/a		A	
2,4-D LV4	16 fl oz/a		A	
ROUNDUP POWERMAX	22 fl oz/a		A	
N-PAK AMS	8.5 lb ai/100 gal		A	
2,4-D LV4	16 fl oz/a		C	
ROUNDUP POWERMAX	32 fl oz/a		C	
N-PAK AMS	8.5 lb ai/100 gal		C	
20 VALOR XLT @ 3 OZ			A	100 a
VALOR SX	1.77 oz/a		A	
CLASSIC	1.24 oz/a		A	
2,4-D LV4	16 fl oz/a		A	
ROUNDUP POWERMAX	22 fl oz/a		A	
N-PAK AMS	8.5 lb ai/100 gal		A	
SHARPEN	1 fl oz/a		D	
ROUNDUP POWERMAX	32 fl oz/a		D	
N-PAK AMS	8.5 lb ai/100 gal		D	
FIREZONE - MSO	1 % v/v		D	
				15
				16
				17
				100 a
				64 a-e
				71 ab
				78 bc
				25 de
				18 de
				99 a
				50 a-e
				71 ab
				99 a
				46 a-e
				11 de
				100 a
				80 ab
				76 ab

## Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed			
Pest Code	ERICA	AMBEL	SETFA	XANST			
Pest Scientific Name	Conyza canadens>	Ambrosia artem>	Setaria faberi	Xanthium strum>			
Pest Name	Canada horsewe>	Common ragweed	Giant foxtail	Heart-leaf coc>			
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P			
Rating Date	6/25/2014	6/25/2014	6/25/2014	6/25/2014			
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO			
Rating Unit	%	%	%	%			
Days After First/Last Applic.	232 29	232 29	232 29	232 29			
Trt-Eval Interval	29 DA-D	29 DA-D	29 DA-D	29 DA-D			
ARM Action Codes	P	P	P	P			
Number of Decimals	0	0	0	0			
Trt Treatment No. Name	Rate	Rate Unit	Appl Code				
				14			
				15			
				16			
				17			
21 ROUNDUP POWERMAX N-PAK AMS ZIDUA SHARPEN ROUNDUP POWERMAX N-PAK AMS FIREZONE - MSO	22 fl oz/a 2.5 % v/v 2 oz/a 2 fl oz/a 32 fl oz/a 8.5 lb ai/100 gal 1 % v/v	A A B B B B B	A A B B B B B	100 a	91 ab	54 a-e	64 abc
22 ROUNDUP POWERMAX N-PAK AMS ZIDUA SHARPEN ROUNDUP POWERMAX N-PAK AMS FIREZONE - MSO	22 fl oz/a 2.5 % v/v 2 oz/a 1 fl oz/a 32 fl oz/a 8.5 lb ai/100 gal 1 % v/v	A A D D D D D	A A D D D D D	96 ab	91 ab	78 ab	76 ab
23 Untreated Check VALOR XLT @ 3 OZ VALOR SX CLASSIC 2,4-D LV4 ROUNDUP POWERMAX N-PAK AMS		A C C C C C C	A C C C C C C	88 ab	98 ab	16 e	61 abc
24 2,4-D LV4 ROUNDUP POWERMAX N-PAK AMS VALOR XLT @ 3 OZ VALOR SX CLASSIC 2,4-D LV4 ROUNDUP POWERMAX N-PAK AMS	16 fl oz/a 22 fl oz/a 8.5 lb ai/100 gal 1.77 oz/a 1.24 oz/a 16 fl oz/a 22 fl oz/a 8.5 lb ai/100 gal	A A A C C C C C C	A A A C C C C C C	76 ab	91 ab	26 de	79 ab
25 BASIS BLEND @ 0.825 OZ RESOLVE HARMONY SG CANOPY EX @ 2 OZ CLASSIC EXPRESS 2,4-D LV4 ROUNDUP POWERMAX N-PAK AMS VALOR XLT @ 3 OZ VALOR SX CLASSIC 2,4-D LV4 ROUNDUP POWERMAX N-PAK AMS	0.165 oz ai/a 0.0825 oz ai/a 0.454 oz ai/a 0.136 oz ai/a 16 fl oz/a 22 fl oz/a 8.5 lb ai/100 gal 1.77 oz/a 1.24 oz/a 16 fl oz/a 22 fl oz/a 8.5 lb ai/100 gal	A A A A A A A C C C C C C C C	A A A A A A A C C C C C C C C	88 ab	94 ab	81 ab	94 a
26 AUTHORITY MTZ WEEDMASTER @ 1.5 PT CLARITY 2,4-D LV4 ROUNDUP POWERMAX COC N-PAK AMS AUTHORITY XL 2,4-D LV4 ROUNDUP POWERMAX N-PAK AMS	12 oz/a 0.1875 lb ae/a 0.53813 lb ae/a 22 fl oz/a 1 % v/v 8.5 lb ai/100 gal 4 oz/a 16 fl oz/a 22 fl oz/a 8.5 lb ai/100 gal	A A A A A A A C C C C C	A A A A A A A C C C C C	98 ab	97 ab	73 a-d	89 a

## Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	ERICA	AMBEL	SETFA	XANST
Pest Scientific Name	Conyza canadens>	Ambrosia artem>	Setaria faberi	Xanthium strum>
Pest Name	Canada horsewe>	Common ragweed	Giant foxtail	Heart-leaf coc>
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	6/25/2014	6/25/2014	6/25/2014	6/25/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Days After First/Last Applic.	232 29	232 29	232 29	232 29
Trt-Eval Interval	29 DA-D	29 DA-D	29 DA-D	29 DA-D
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment No. Name	Rate	Rate Unit	Appl Code	
				14
				15
				16
				17
27 VALOR XLT @ 3 OZ			A	100 a
VALOR SX	1.77 oz/a		A	
CLASSIC	1.24 oz/a		A	
2,4-D LV4	16 fl oz/a		A	
ROUNDUP POWERMAX	22 fl oz/a		A	
N-PAK AMS	8.5 lb ai/100 gal		A	
VALOR XLT @ 3 OZ			C	
VALOR SX	1.77 oz/a		C	
CLASSIC	1.24 oz/a		C	
2,4-D LV4	16 fl oz/a		C	
ROUNDUP POWERMAX	22 fl oz/a		C	
N-PAK AMS	8.5 lb ai/100 gal		C	
28 ROUNDUP POWERMAX	22 fl oz/a		A	9 c
N-PAK AMS	8.5 lb ai/100 gal		A	
ROUNDUP POWERMAX	22 fl oz/a		D	
N-PAK AMS	8.5 lb ai/100 gal		D	
29 ROUNDUP POWERMAX	22 fl oz/a		A	100 a
N-PAK AMS	8.5 lb ai/100 gal		A	
GRAMOXONE SL	3.5 pt/a		C	
SENCOR	10 oz/a		C	
2,4-D LV4	16 fl oz/a		C	
COC	1 % v/v		C	
30 VALOR XLT @ 3 OZ			A	100 a
VALOR SX	1.77 oz/a		A	
CLASSIC	1.24 oz/a		A	
2,4-D LV4	16 fl oz/a		A	
ROUNDUP POWERMAX	22 fl oz/a		A	
N-PAK AMS	8.5 lb ai/100 gal		A	
GRAMOXONE SL	3.5 pt/a		C	
SENCOR	10 oz/a		C	
2,4-D LV4	16 fl oz/a		C	
COC	1 % v/v		C	
LSD (P=.05)				18.0
Standard Deviation				12.7
CV				14.12
Bartlett's X2				114.682
P(Bartlett's X2)				0.001*
Skewness				-3.0554*
Kurtosis				9.1594*
				11.3
				8.0
				8.54
				43.003
				0.014*
				-2.0188*
				4.2744*
				26.8
				19.0
				32.78
				46.846
				0.019*
				-0.4515*
				-1.1457*
				27.6
				19.5
				31.46
				63.19
				0.001*
				-0.6689*
				-0.9923*

# Purdue University Weed Science

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	18
Pest Type Pest Code Pest Scientific Name Pest Name Part Rated Rating Date Rating Type Rating Unit Days After First/Last Applic. Trt-Eval Interval ARM Action Codes Number of Decimals					
					W Weed ERICA Conyza canadensis Canada horseweed PLOT P 7/22/2014 CONTRO % 259 56 56 DA-D P 0
1	ROUNDUP POWERMAX N-PAK AMS 2,4-D LV4 ROUNDUP POWERMAX N-PAK AMS	22 fl oz/a 2.5 % v/v 16 fl oz/a 32 fl oz/a 8.5 lb ai/100 gal	A A C C C		88 a
2	ROUNDUP POWERMAX N-PAK AMS 2,4-D LV4 ROUNDUP POWERMAX N-PAK AMS FIREZONE - MSO OPTILL OUTLOOK	22 fl oz/a 2.5 % v/v 16 fl oz/a 32 fl oz/a 8.5 lb ai/100 gal 1 % v/v 2 oz/a 10 fl oz/a	A A C C C C C C		84 a
3	2,4-D LV4 ROUNDUP POWERMAX N-PAK AMS SHARPEN ROUNDUP POWERMAX N-PAK AMS FIREZONE - MSO	16 fl oz/a 22 fl oz/a 8.5 lb ai/100 gal 2 fl oz/a 32 fl oz/a 8.5 lb ai/100 gal 1 % v/v	A A A D D D D		100 a
4	2,4-D LV4 ROUNDUP POWERMAX N-PAK AMS OPTILL OUTLOOK ROUNDUP POWERMAX N-PAK AMS FIREZONE - MSO	16 fl oz/a 22 fl oz/a 8.5 lb ai/100 gal 2 oz/a 10 fl oz/a 32 fl oz/a 8.5 lb ai/100 gal 1 % v/v	A A A D D D D D		95 a
5	ZIDUA DISTINCT ROUNDUP POWERMAX NIS N-PAK AMS SHARPEN ROUNDUP POWERMAX N-PAK AMS FIREZONE - MSO	2 oz/a 3 oz/a 22 fl oz/a 0.25 % v/v 8.5 lb ai/100 gal 2 fl oz/a 32 fl oz/a 8.5 lb ai/100 gal 1 % v/v	A A A A A D D D D		100 a

## Purdue University Weed Science

Trt No.	Treatment Name	Rate	Unit	Appl Code	18
	6 ZIDUA	2 oz/a		A	100 a
	DISTINCT	3 oz/a		A	
	ROUNDUP POWERMAX	22 fl oz/a		A	
	NIS	0.25 % v/v		A	
	N-PAK AMS	8.5 lb ai/100 gal		A	
	OPTILL	2 oz/a		D	
	OUTLOOK	10 fl oz/a		D	
	ROUNDUP POWERMAX	32 fl oz/a		D	
	N-PAK AMS	8.5 lb ai/100 gal		D	
	FIREZONE - MSO	1 % v/v		D	
	7 ZIDUA	2 oz/a		A	100 a
	SHARPEN	1 fl oz/a		A	
	ROUNDUP POWERMAX	22 fl oz/a		A	
	FIREZONE - MSO	1 % v/v		A	
	N-PAK AMS	8.5 lb ai/100 gal		A	
	2,4-D LV4	16 fl oz/a		C	
	ROUNDUP POWERMAX	32 fl oz/a		C	
	N-PAK AMS	8.5 lb ai/100 gal		C	
	FIREZONE - MSO	1 % v/v		C	
	OPTILL	2 oz/a		C	
	OUTLOOK	10 fl oz/a		C	
	8 ZIDUA	2 oz/a		A	100 a
	SHARPEN	1 fl oz/a		A	
	ROUNDUP POWERMAX	22 fl oz/a		A	
	FIREZONE - MSO	1 % v/v		A	
	N-PAK AMS	8.5 lb ai/100 gal		A	
	SHARPEN	1 fl oz/a		C	
	2,4-D LV4	16 fl oz/a		C	
	ROUNDUP POWERMAX	32 fl oz/a		C	
	N-PAK AMS	8.5 lb ai/100 gal		C	
	FIREZONE - MSO	1 % v/v		C	
	9 2,4-D LV4	16 fl oz/a		A	99 a
	DISTINCT	2 oz/a		A	
	ROUNDUP POWERMAX	22 fl oz/a		A	
	NIS	0.25 % v/v		A	
	N-PAK AMS	8.5 lb ai/100 gal		A	
	OPTILL	2 oz/a		D	
	OUTLOOK	10 fl oz/a		D	
	ROUNDUP POWERMAX	32 fl oz/a		D	
	N-PAK AMS	8.5 lb ai/100 gal		D	
	FIREZONE - MSO	1 % v/v		D	
	10 2,4-D LV4	16 fl oz/a		A	100 a
	DISTINCT	2 oz/a		A	
	ROUNDUP POWERMAX	22 fl oz/a		A	
	NIS	0.25 % v/v		A	
	N-PAK AMS	8.5 lb ai/100 gal		A	
	ZIDUA	2 oz/a		D	
	SHARPEN	1 fl oz/a		D	
	ROUNDUP POWERMAX	32 fl oz/a		D	
	N-PAK AMS	8.5 lb ai/100 gal		D	
	FIREZONE - MSO	1 % v/v		D	

W Weed  
ERICA  
Conyza canadensis  
Canada horseweed  
PLOT P  
7/22/2014  
CONTRO  
%  
259 56  
56 DA-D  
P  
0



# Purdue University Weed Science

Trt No.	Treatment Name	Rate	Unit	Appl Code	
	Pest Type				W Weed
	Pest Code				ERICA
	Pest Scientific Name				Conyza canadensis
	Pest Name				Canada horseweed
	Part Rated				PLOT P
	Rating Date				7/22/2014
	Rating Type				CONTRO
	Rating Unit				%
	Days After First/Last Applic.				259 56
	Trt-Eval Interval				56 DA-D
	ARM Action Codes				P
	Number of Decimals				0
	Trt No.				18
11	SHARPEN	2 fl oz/a		A	100 a
	2,4-D LV4	16 fl oz/a		A	
	ROUNDUP POWERMAX	22 fl oz/a		A	
	FIREZONE - MSO	1 % v/v		A	
	N-PAK AMS	8.5 lb ai/100 gal		A	
	OPTILL	2 oz/a		D	
	OUTLOOK	10 fl oz/a		D	
	ROUNDUP POWERMAX	32 fl oz/a		D	
	N-PAK AMS	8.5 lb ai/100 gal		D	
	FIREZONE - MSO	1 % v/v		D	
12	SHARPEN	2 fl oz/a		A	100 a
	2,4-D LV4	16 fl oz/a		A	
	ROUNDUP POWERMAX	22 fl oz/a		A	
	FIREZONE - MSO	1 % v/v		A	
	N-PAK AMS	8.5 lb ai/100 gal		A	
	ZIDUA	2 oz/a		D	
	SHARPEN	1 fl oz/a		D	
	ROUNDUP POWERMAX	32 fl oz/a		D	
	N-PAK AMS	8.5 lb ai/100 gal		D	
	FIREZONE - MSO	1 % v/v		D	
13	SHARPEN	2 fl oz/a		A	98 a
	SENCOR	10 oz/a		A	
	ROUNDUP POWERMAX	22 fl oz/a		A	
	FIREZONE - MSO	1 % v/v		A	
	N-PAK AMS	8.5 lb ai/100 gal		A	
	OPTILL	2 oz/a		D	
	OUTLOOK	10 fl oz/a		D	
	ROUNDUP POWERMAX	32 fl oz/a		D	
	N-PAK AMS	8.5 lb ai/100 gal		D	
	FIREZONE - MSO	1 % v/v		D	
14	SHARPEN	2 fl oz/a		A	96 a
	SENCOR	10 oz/a		A	
	ROUNDUP POWERMAX	22 fl oz/a		A	
	FIREZONE - MSO	1 % v/v		A	
	N-PAK AMS	8.5 lb ai/100 gal		A	
	ZIDUA	2 oz/a		D	
	SHARPEN	1 fl oz/a		D	
	ROUNDUP POWERMAX	32 fl oz/a		D	
	N-PAK AMS	8.5 lb ai/100 gal		D	
	FIREZONE - MSO	1 % v/v		D	
15	BASIS BLEND @ 0.825 OZ			A	98 a
	RESOLVE	0.165 oz ai/a		A	
	HARMONY SG	0.0825 oz ai/a		A	
	CANOPY EX @ 2 OZ			A	
	CLASSIC	0.454 oz ai/a		A	
	EXPRESS	0.136 oz ai/a		A	
	2,4-D LV4	16 fl oz/a		A	
	ROUNDUP POWERMAX	22 fl oz/a		A	
	N-PAK AMS	8.5 lb ai/100 gal		A	
	2,4-D LV4	16 fl oz/a		C	
	ROUNDUP POWERMAX	32 fl oz/a		C	
	N-PAK AMS	8.5 lb ai/100 gal		C	

# Purdue University Weed Science

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	18
	16 BASIS BLEND @ 0.825 OZ			A	100 a
	RESOLVE	0.165 oz ai/a		A	
	HARMONY SG	0.0825 oz ai/a		A	
	CANOPY EX @ 2 OZ			A	
	CLASSIC	0.454 oz ai/a		A	
	EXPRESS	0.136 oz ai/a		A	
	2,4-D LV4	16 fl oz/a		A	
	ROUNDUP POWERMAX	22 fl oz/a		A	
	N-PAK AMS	8.5 lb ai/100 gal		A	
	SHARPEN	1 fl oz/a		D	
	ROUNDUP POWERMAX	32 fl oz/a		D	
	N-PAK AMS	8.5 lb ai/100 gal		D	
	FIREZONE - MSO	1 % v/v		D	
	17 AUTHORITY MTZ	12 oz/a		A	100 a
	WEEDMASTER @ 1.5 PT			A	
	CLARITY	0.1875 lb ae/a		A	
	2,4-D LV4	0.53813 lb ae/a		A	
	ROUNDUP POWERMAX	22 fl oz/a		A	
	COC	1 % v/v		A	
	N-PAK AMS	8.5 lb ai/100 gal		A	
	2,4-D LV4	16 fl oz/a		C	
	ROUNDUP POWERMAX	32 fl oz/a		C	
	N-PAK AMS	8.5 lb ai/100 gal		C	
	18 AUTHORITY MTZ	12 oz/a		A	100 a
	WEEDMASTER @ 1.5 PT			A	
	CLARITY	0.1875 lb ae/a		A	
	2,4-D LV4	0.53813 lb ae/a		A	
	ROUNDUP POWERMAX	22 fl oz/a		A	
	COC	1 % v/v		A	
	N-PAK AMS	8.5 lb ai/100 gal		A	
	SHARPEN	1 fl oz/a		D	
	ROUNDUP POWERMAX	32 fl oz/a		D	
	N-PAK AMS	8.5 lb ai/100 gal		D	
	FIREZONE - MSO	1 % v/v		D	
	19 VALOR XLT @ 3 OZ			A	100 a
	VALOR SX	1.77 oz/a		A	
	CLASSIC	1.24 oz/a		A	
	2,4-D LV4	16 fl oz/a		A	
	ROUNDUP POWERMAX	22 fl oz/a		A	
	N-PAK AMS	8.5 lb ai/100 gal		A	
	2,4-D LV4	16 fl oz/a		C	
	ROUNDUP POWERMAX	32 fl oz/a		C	
	N-PAK AMS	8.5 lb ai/100 gal		C	
	20 VALOR XLT @ 3 OZ			A	100 a
	VALOR SX	1.77 oz/a		A	
	CLASSIC	1.24 oz/a		A	
	2,4-D LV4	16 fl oz/a		A	
	ROUNDUP POWERMAX	22 fl oz/a		A	
	N-PAK AMS	8.5 lb ai/100 gal		A	
	SHARPEN	1 fl oz/a		D	
	ROUNDUP POWERMAX	32 fl oz/a		D	
	N-PAK AMS	8.5 lb ai/100 gal		D	
	FIREZONE - MSO	1 % v/v		D	

W Weed  
ERICA  
Conyza canadensis  
Canada horseweed  
PLOT P  
7/22/2014  
CONTRO  
%  
259 56  
56 DA-D  
P  
0

# Purdue University Weed Science

Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	
	Pest Type				W Weed
	Pest Code				ERICA
	Pest Scientific Name				Conyza canadensis
	Pest Name				Canada horseweed
	Part Rated				PLOT P
	Rating Date				7/22/2014
	Rating Type				CONTRO
	Rating Unit				%
	Days After First/Last Applic.				259 56
	Trt-Eval Interval				56 DA-D
	ARM Action Codes				P
	Number of Decimals				0
	Trt No.				18
21	ROUNDUP POWERMAX	22 fl oz/a		A	100 a
	N-PAK AMS	2.5 % v/v		A	
	ZIDUA	2 oz/a		B	
	SHARPEN	2 fl oz/a		B	
	ROUNDUP POWERMAX	32 fl oz/a		B	
	N-PAK AMS	8.5 lb ai/100 gal		B	
	FIREZONE - MSO	1 % v/v		B	
22	ROUNDUP POWERMAX	22 fl oz/a		A	100 a
	N-PAK AMS	2.5 % v/v		A	
	ZIDUA	2 oz/a		D	
	SHARPEN	1 fl oz/a		D	
	ROUNDUP POWERMAX	32 fl oz/a		D	
	N-PAK AMS	8.5 lb ai/100 gal		D	
	FIREZONE - MSO	1 % v/v		D	
23	Untreated Check			A	97 a
	VALOR XLT @ 3 OZ			C	
	VALOR SX	1.77 oz/a		C	
	CLASSIC	1.24 oz/a		C	
	2,4-D LV4	16 fl oz/a		C	
	ROUNDUP POWERMAX	22 fl oz/a		C	
	N-PAK AMS	8.5 lb ai/100 gal		C	
24	2,4-D LV4	16 fl oz/a		A	90 a
	ROUNDUP POWERMAX	22 fl oz/a		A	
	N-PAK AMS	8.5 lb ai/100 gal		A	
	VALOR XLT @ 3 OZ			C	
	VALOR SX	1.77 oz/a		C	
	CLASSIC	1.24 oz/a		C	
	2,4-D LV4	16 fl oz/a		C	
	ROUNDUP POWERMAX	22 fl oz/a		C	
	N-PAK AMS	8.5 lb ai/100 gal		C	
25	BASIS BLEND @ 0.825 OZ			A	84 a
	RESOLVE	0.165 oz ai/a		A	
	HARMONY SG	0.0825 oz ai/a		A	
	CANOPY EX @ 2 OZ			A	
	CLASSIC	0.454 oz ai/a		A	
	EXPRESS	0.136 oz ai/a		A	
	2,4-D LV4	16 fl oz/a		A	
	ROUNDUP POWERMAX	22 fl oz/a		A	
	N-PAK AMS	8.5 lb ai/100 gal		A	
	VALOR XLT @ 3 OZ			C	
	VALOR SX	1.77 oz/a		C	
	CLASSIC	1.24 oz/a		C	
	2,4-D LV4	16 fl oz/a		C	
	ROUNDUP POWERMAX	22 fl oz/a		C	
	N-PAK AMS	8.5 lb ai/100 gal		C	
26	AUTHORITY MTZ	12 oz/a		A	98 a
	WEEDMASTER @ 1.5 PT			A	
	CLARITY	0.1875 lb ae/a		A	
	2,4-D LV4	0.53813 lb ae/a		A	
	ROUNDUP POWERMAX	22 fl oz/a		A	
	COC	1 % v/v		A	
	N-PAK AMS	8.5 lb ai/100 gal		A	
	AUTHORITY XL	4 oz/a		C	
	2,4-D LV4	16 fl oz/a		C	
	ROUNDUP POWERMAX	22 fl oz/a		C	
	N-PAK AMS	8.5 lb ai/100 gal		C	

# Purdue University Weed Science

Pest Type				W Weed
Pest Code				ERICA
Pest Scientific Name				Conyza canadensis
Pest Name				Canada horseweed
Part Rated				PLOT P
Rating Date				7/22/2014
Rating Type				CONTRO
Rating Unit				%
Days After First/Last Applic.				259 56
Trt-Eval Interval				56 DA-D
ARM Action Codes				P
Number of Decimals				0
Trt No.	Treatment Name	Rate	Unit	Appl Code
				18
27	VALOR XLT @ 3 OZ			A
	VALOR SX	1.77 oz/a		A
	CLASSIC	1.24 oz/a		A
	2,4-D LV4	16 fl oz/a		A
	ROUNDUP POWERMAX	22 fl oz/a		A
	N-PAK AMS	8.5 lb ai/100 gal		A
	VALOR XLT @ 3 OZ			C
	VALOR SX	1.77 oz/a		C
	CLASSIC	1.24 oz/a		C
	2,4-D LV4	16 fl oz/a		C
	ROUNDUP POWERMAX	22 fl oz/a		C
	N-PAK AMS	8.5 lb ai/100 gal		C
28	ROUNDUP POWERMAX	22 fl oz/a		A
	N-PAK AMS	8.5 lb ai/100 gal		A
	ROUNDUP POWERMAX	22 fl oz/a		D
	N-PAK AMS	8.5 lb ai/100 gal		D
29	ROUNDUP POWERMAX	22 fl oz/a		A
	N-PAK AMS	8.5 lb ai/100 gal		A
	GRAMOXONE SL	3.5 pt/a		C
	SENCOR	10 oz/a		C
	2,4-D LV4	16 fl oz/a		C
	COC	1 % v/v		C
30	VALOR XLT @ 3 OZ			A
	VALOR SX	1.77 oz/a		A
	CLASSIC	1.24 oz/a		A
	2,4-D LV4	16 fl oz/a		A
	ROUNDUP POWERMAX	22 fl oz/a		A
	N-PAK AMS	8.5 lb ai/100 gal		A
	GRAMOXONE SL	3.5 pt/a		C
	SENCOR	10 oz/a		C
	2,4-D LV4	16 fl oz/a		C
	COC	1 % v/v		C
	LSD (P=.05)			12.4
	Standard Deviation			8.8
	CV			9.21
	Bartlett's X2			39.497
	P(Bartlett's X2)			0.001*
	Skewness			-3.5803*
	Kurtosis			13.2373*

## Purdue University Weed Science

### Fall and Fall fb Spring Burndown Programs for Glyphosate-Resistant Marestail in Soybean

Trial ID: 13F-SEP-NTS-03	Location: SEPAC	Trial Year:
Protocol ID: 13F-SEP-NTS-03	Investigator: Dr. Bill Johnson	
Project ID: DEM-AWC-SoyFallBurndown	Study Director: Joe Ikley	
	Sponsor Contact: BASF - Gery Welker	

Randomized Complete Block (RCB) AOV For W Weed ERICA Conyza canadensis Canada horseweed PLOT P 11/19/2013 CONTRO % 14 14 14 DA-A P 0 (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	118	135473.979174			
Replicate	3	721.180962	240.393654	0.869	0.4607
Treatment	29	110952.090549	3825.934157	13.824	0.0001
Error	86	23800.707663	276.752415		

Randomized Complete Block (RCB) AOV For W Weed ERICA Conyza canadensis Canada horseweed PLOT P 4/24/2014 CONTRO % 170 170 170 DA-A P 0 (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	119	38964.791667			
Replicate	3	7.291667	2.430556	0.292	0.8310
Treatment	29	38233.541667	1318.397989	158.435	0.0001
Error	87	723.958333	8.321360		

Randomized Complete Block (RCB) AOV For W Weed ALLVI Allium vineale Wild garlic PLOT P 4/24/2014 CONTRO % 170 170 170 DA-A P 0 (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	119	75223.125000			
Replicate	3	1217.291667	405.763889	1.209	0.3114
Treatment	29	44804.375000	1544.978448	4.603	0.0001
Error	87	29201.458333	335.648946		

Randomized Complete Block (RCB) AOV For W Weed ERICA Conyza canadensis Canada horseweed PLOT P 5/27/2014 CONTRO % 203 19 0 DA-D P 0 (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	109	246658.105402			
Replicate	3	538.796611	179.598870	1.099	0.3546
Treatment	29	233539.749133	8053.094798	49.293	0.0001
Error	77	12579.559658	163.370905		

Randomized Complete Block (RCB) AOV For W Weed AMBEL Ambrosia artemisiifolia Common ragweed PLOT P 5/27/2014 CONTRO % 203 19 0 DA-D P 0 (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	110	266245.091667			
Replicate	3	182.008333	60.669444	2.146	0.1012
Treatment	29	263857.841667	9098.546264	321.818	0.0001
Error	78	2205.241667	28.272329		

Randomized Complete Block (RCB) AOV For W Weed SETFA Setaria faberi Giant foxtail PLOT P 5/27/2014 CONTRO % 203 19 0 DA-D P 0 (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	114	273275.566214			
Replicate	3	28.670156	9.556719	0.432	0.7304
Treatment	29	271434.327275	9359.804389	423.434	0.0001
Error	82	1812.568784	22.104497		

Randomized Complete Block (RCB) AOV For W Weed ERICA Conyza canadensis Canada horseweed PLOT P 6/5/2014 CONTRO % 212 9 9 DA-D P 0 (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	116	44196.187599			
Replicate	3	456.208688	152.069563	2.970	0.0365
Treatment	29	39438.342091	1359.942831	26.556	0.0001
Error	84	4301.636820	51.209962		

Randomized Complete Block (RCB) AOV For W Weed AMBEL Ambrosia artemisiifolia Common ragweed PLOT P 6/5/2014 CONTRO % 212 9 9 DA-D P 0 (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	117	5507.632646			
Replicate	3	27.300250	9.100083	0.531	0.6625
Treatment	29	4022.688875	138.713409	8.089	0.0001
Error	85	1457.643521	17.148747		

## Purdue University Weed Science

Randomized Complete Block (RCB) AOV For W Weed SETFA <i>Setaria faberi</i> Giant foxtail PLOT P 6/5/2014 CONTRO % 212 9 9 DA-D P 0 (Data Column 9)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	117	14644.274785			
Replicate	3	702.222433	234.074144	3.755	0.0138
Treatment	29	8642.792380	298.027323	4.780	0.0001
Error	85	5299.259972	62.344235		

Randomized Complete Block (RCB) AOV For W Weed ERICA <i>Conyza canadensis</i> Canada horseweed PLOT P 6/12/2014 CONTRO % 219 16 16 DA-D P 0 (Data Column 10)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	116	39635.609706			
Replicate	3	605.320024	201.773341	3.228	0.0265
Treatment	29	33779.442673	1164.808368	18.634	0.0001
Error	84	5250.847008	62.510083		

Randomized Complete Block (RCB) AOV For W Weed AMBEL <i>Ambrosia artemisiifolia</i> Common ragweed PLOT P 6/12/2014 CONTRO % 219 16 16 DA-D P 0 (Data Column 11)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	117	4345.223414			
Replicate	3	31.331950	10.443983	0.530	0.6630
Treatment	29	2638.665882	90.988479	4.617	0.0001
Error	85	1675.225581	19.708536		

Randomized Complete Block (RCB) AOV For W Weed SETFA <i>Setaria faberi</i> Giant foxtail PLOT P 6/12/2014 CONTRO % 219 16 16 DA-D P 0 (Data Column 12)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	115	40132.996296			
Replicate	3	1263.538889	421.179630	2.513	0.0641
Treatment	29	24959.329630	860.666539	5.135	0.0001
Error	83	13910.127778	167.591901		

Randomized Complete Block (RCB) AOV For W Weed XANST <i>Xanthium strumarium</i> Heart-leaf cocklebur PLOT P 6/12/2014 CONTRO % 219 16 16 DA-D P 0 (Data Column 13)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	115	91564.195220			
Replicate	3	2118.299067	706.099689	3.155	0.0291
Treatment	29	70867.604222	2443.710490	10.917	0.0001
Error	83	18578.291931	223.834843		

Randomized Complete Block (RCB) AOV For W Weed ERICA <i>Conyza canadensis</i> Canada horseweed PLOT P 6/25/2014 CONTRO % 232 29 29 DA-D P 0 (Data Column 14)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	115	52330.996104			
Replicate	3	1475.255541	491.751847	3.041	0.0335
Treatment	29	37433.644773	1290.815337	7.982	0.0001
Error	83	13422.095789	161.711997		

Randomized Complete Block (RCB) AOV For W Weed AMBEL <i>Ambrosia artemisiifolia</i> Common ragweed PLOT P 6/25/2014 CONTRO % 232 29 29 DA-D P 0 (Data Column 15)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	117	11222.438194			
Replicate	3	404.754841	134.918280	2.109	0.1051
Treatment	29	5380.457274	185.533009	2.900	0.0001
Error	85	5437.226079	63.967366		

Randomized Complete Block (RCB) AOV For W Weed SETFA <i>Setaria faberi</i> Giant foxtail PLOT P 6/25/2014 CONTRO % 232 29 29 DA-D P 0 (Data Column 16)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	115	107761.165741			
Replicate	3	3692.178704	1230.726235	3.422	0.0210
Treatment	29	74213.582407	2559.089049	7.114	0.0001
Error	83	29855.404630	359.703670		

Randomized Complete Block (RCB) AOV For W Weed XANST <i>Xanthium strumarium</i> Heart-leaf cocklebur PLOT P 6/25/2014 CONTRO % 232 29 29 DA-D P 0 (Data Column 17)					
Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	116	133959.383304			
Replicate	3	1158.238024	386.079341	1.012	0.3918
Treatment	29	100741.047028	3473.829208	9.102	0.0001
Error	84	32060.098253	381.667836		

## Purdue University Weed Science

Randomized Complete Block (RCB) AOV For W Weed ERICA Conyza canadensis Canada horseweed PLOT P 7/22/2014 CONTRO % 259 56 56

DA-D P 0 (Data Column 18)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	110	19776.829630			
Replicate	3	26.038889	8.679630	0.112	0.9528
Treatment	29	13708.162963	472.695275	6.102	0.0001
Error	78	6042.627778	77.469587		

### Pest Type

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

### Pest Code

ERICA, Conyza canadensis, = US

ALLVI, Allium vineale, = US

AMBEL, Ambrosia artemisiifolia, = US

SETFA, Setaria faberi, = US

XANST, Xanthium strumarium, = US

### Part Rated

PLOT = plot

P = Pest is Part Rated

### Rating Type

CONTRO = control / burndown or knockdown

### Rating Unit

% = percent

### ARM Action Codes

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