

# Purdue University Weed Science

**Evaluate Tricor in a fall burndown program followed by spring herbicide burndown programs in Roundup Ready soybeans in Indiana.**

Trial ID: 13F-SEP-NTS-04      Location: Indiana      Trial Year: 2014  
 Protocol ID: 13F-SEP-NTS-04      Investigator: Dr. Bill Johnson  
 Project ID: Trcr-06-US-IN-14-03TLE      Study Director: Joe Ikley  
 Sponsor Contact: UPI - Tony Estes/Valent - Eric Ott

## 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      **Planned Completion Date:** 10/15/2014  
**Completion Date:** 6/25/2014

## Trial Location

**City:** Butlerville      **Country:** USA United States  
**State/Prov.:** Indiana  
**Postal Code:** 47223

## Objectives:

Evaluate Tricor in a weed management programs (fall and spring) for weed control in Roundup Ready soybeans in Indiana.

## 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**  
**Role:** Superintendent

**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:** Asgrow 2933  
**Description:** RR

**Planting Rate, Unit:** 140000 S/A      **Planting Date:** 5/27/2014  
**Depth, Unit:** 1.5 IN      **Planting Method:** DIRDRI direct drilled  
**Row Spacing, Unit:** 30 IN      **Planting Equipment:** PP Plot Planter  
**Soil Temperature, Unit:** 80 F      **Emergence Date:** 5/31/2014  
**Soil Moisture:** WET      wet

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## 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:** TAROF *Taraxacum officinale*  
**Common Name:** Common dandelion

**Pest 4 Type:** W **Code:** PLASS *Plantago sp.*  
**Common Name:** Plantain

**Pest 5 Type:** W **Code:** SETFA *Setaria faberi*  
**Common Name:** Giant foxtail

**Pest 6 Type:** W **Code:** AMBEL *Ambrosia artemisiifolia*  
**Common Name:** Common ragweed

## Site and Design

**Treated Plot Width:** 10 FT  
**Treated Plot Length:** 30 FT  
**Treated Plot Area:** 300 FT<sup>2</sup> **Treatments:** 10  
**Replications:** 4

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

## Soil Description

**Description Name:** SEPAC-U41  
**% Sand:** 20 **% OM:** 1.3 **Texture:** SIL silt loam  
**% Silt:** 65 **pH:** 6.5 **Soil Name:** Avonburg  
**% Clay:** 15 **CEC:** 5.7 **Fert. Level:** F fair  
**Soil Drainage:** P poor

## Application Description

	A	B
<b>Application Date:</b>	11/5/2013	5/8/2014
<b>Appl. Start Time:</b>	12:00	7:15
<b>Appl. Stop Time:</b>	1:00 PM	7:45 AM
<b>Application Method:</b>	SPRAY	SPRAY
<b>Application Timing:</b>	NOVEMB	7 DPP
<b>Application Placement:</b>	BROFOL	BROADC
<b>Applied By:</b>	Ikley	Legleiter
<b>Air Temperature, Unit:</b>	58 F	67 F
<b>% Relative Humidity:</b>	54	70
<b>Wind Velocity, Unit:</b>	5 MPH	3 MPH
<b>Wind Direction:</b>	S	S
<b>Dew Presence (Y/N):</b>	N no	N no
<b>Soil Temperature, Unit:</b>	56 F	64 F
<b>Soil Moisture:</b>	SLIWET	DRY
<b>% Cloud Cover:</b>	90	30
<b>Next Moisture Occurred On:</b>	11/6/2013	

## Crop Stage At Each Application

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

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## Pest Stage At Each Application

	A	B
<b>Pest 1 Code, Type, Scale:</b>	ERICA W	ERICA W
<b>Stage Majority, Percent:</b>	13	14
<b>Stage Minimum, Percent:</b>	11	13
<b>Stage Maximum, Percent:</b>	16	17
<b>Diameter, Unit:</b>	3 IN	
<b>Height, Unit:</b>		1.25 IN
<b>Height Minimum, Maximum:</b>		0.5 2
<b>Density, Unit:</b>	15 YD2	30 YD2
<b>Pest 2 Code, Type, Scale:</b>	ALLVI W	ALLVI W
<b>Stage Majority, Percent:</b>	12	15
<b>Stage Minimum, Percent:</b>	11	13
<b>Stage Maximum, Percent:</b>	14	17
<b>Height, Unit:</b>	5.5 IN	11 IN
<b>Height Minimum, Maximum:</b>	3 8	4 18
<b>Density, Unit:</b>		75 YD2
<b>Pest 3 Code, Type, Scale:</b>	TAROF W	TAROF W
<b>Stage Majority, Percent:</b>	15	
<b>Stage Minimum, Percent:</b>	00	
<b>Stage Maximum, Percent:</b>	18	
<b>Diameter, Unit:</b>	4 IN	
<b>Density, Unit:</b>	7.5 YD2	
<b>Pest 4 Code, Type, Scale:</b>	PLASS W	PLASS W
<b>Stage Majority, Percent:</b>	16	
<b>Stage Minimum, Percent:</b>	11	
<b>Stage Maximum, Percent:</b>	18	
<b>Diameter, Unit:</b>	4 IN	
<b>Density, Unit:</b>	20 YD2	
<b>Pest 5 Code, Type, Scale:</b>	SETFA W	SETFA W
<b>Stage Majority, Percent:</b>		13
<b>Stage Minimum, Percent:</b>		12
<b>Stage Maximum, Percent:</b>		15
<b>Height, Unit:</b>		1.25 IN
<b>Height Minimum, Maximum:</b>		0.5 2
<b>Density, Unit:</b>		60 YD2
<b>Pest 6 Code, Type, Scale:</b>	AMBEL W	AMBEL W
<b>Stage Majority, Percent:</b>		12
<b>Stage Minimum, Percent:</b>		11
<b>Stage Maximum, Percent:</b>		14
<b>Height, Unit:</b>		2.5 IN
<b>Height Minimum, Maximum:</b>		1 4
<b>Density, Unit:</b>		70 YD2

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

### Trial Comments

Unable to rate phytotoxicity on soybean due to heavy deer damage.  
ERICA ratings were evaluated on spring-emerging ERICA.

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 Protocol ID: 13F-SEP-NTS-04                  Investigator: Dr. Bill Johnson  
 Project ID: Trcr-06-US-IN-14-03TLE          Study Director: Joe Ikley  
 Sponsor Contact: UPI - Tony Estes/Valent - Eric Ott

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	Growth Stage	Appl Code	Appl Description	Amt to Measure	Rep 1	2	3	4
1	Untreated Check										101	503	601	902
2	TRICOR	75 %		DF	8 oz/a		OCTOBER	A	Fall burndown (2013)	7.19 g/mx	102	404	602	804
	ROUNDUP POWERMAX	4.5 LBAE/GAL		EC	22 fl oz/a		MAY	B	Spring (2014)	20.62 ml/mx				
	VALOR XLT @ 3.5 OZ													
	VALOR SX	51 %		WG	2.05 oz/a		MAY	B	Spring (2014)	1.842 g/mx				
	CLASSIC	25 %		WG	1.45 oz/a		MAY	B	Spring (2014)	1.303 g/mx				
	WEEDAR 64	3.8 LBAE/GAL		L	16 fl oz/a		MAY	B	Spring (2014)	15.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		SL	2.5 % v/v		MAY	B	Spring (2014)	45.0 ml/mx				
	COC	100 %		SL	1 % v/v		OCTOBER	A	Fall burndown (2013)	18.0 ml/mx				
3	TRICOR	75 %		DF	12 oz/a		OCTOBER	A	Fall burndown (2013)	10.78 g/mx	103	403	702	1001
	ROUNDUP POWERMAX	4.5 LBAE/GAL		EC	22 fl oz/a		MAY	B	Spring (2014)	20.62 ml/mx				
	VALOR XLT @ 3.5 OZ													
	VALOR SX	51 %		WG	2.05 oz/a		MAY	B	Spring (2014)	1.842 g/mx				
	CLASSIC	25 %		WG	1.45 oz/a		MAY	B	Spring (2014)	1.303 g/mx				
	WEEDAR 64	3.8 LBAE/GAL		L	16 fl oz/a		MAY	B	Spring (2014)	15.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		SL	2.5 % v/v		MAY	B	Spring (2014)	45.0 ml/mx				
	COC	100 %		SL	1 % v/v		OCTOBER	A	Fall burndown (2013)	18.0 ml/mx				
4	TRICOR	75 %		DF	8 oz/a		OCTOBER	A	Fall burndown (2013)	7.19 g/mx	104	402	801	903
	WEEDAR 64	3.8 LBAE/GAL		L	16 fl oz/a		OCTOBER	A	Fall burndown (2013)	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		EC	22 fl oz/a		MAY	B	Spring (2014)	20.62 ml/mx				
	VALOR XLT @ 3.5 OZ													
	VALOR SX	51 %		WG	2.05 oz/a		MAY	B	Spring (2014)	1.842 g/mx				
	CLASSIC	25 %		WG	1.45 oz/a		MAY	B	Spring (2014)	1.303 g/mx				
	WEEDAR 64	3.8 LBAE/GAL		L	16 fl oz/a		MAY	B	Spring (2014)	15.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		SL	2.5 % v/v		MAY	B	Spring (2014)	45.0 ml/mx				
	COC	100 %		SL	1 % v/v		OCTOBER	A	Fall burndown (2013)	18.0 ml/mx				
5	TRICOR	75 %		DF	12 oz/a		OCTOBER	A	Fall burndown (2013)	10.78 g/mx	201	304	604	803
	WEEDAR 64	3.8 LBAE/GAL		L	16 fl oz/a		OCTOBER	A	Fall burndown (2013)	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		EC	22 fl oz/a		MAY	B	Spring (2014)	20.62 ml/mx				
	VALOR XLT @ 3.5 OZ													
	VALOR SX	51 %		WG	2.05 oz/a		MAY	B	Spring (2014)	1.842 g/mx				
	CLASSIC	25 %		WG	1.45 oz/a		MAY	B	Spring (2014)	1.303 g/mx				
	WEEDAR 64	3.8 LBAE/GAL		L	16 fl oz/a		MAY	B	Spring (2014)	15.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		SL	2.5 % v/v		MAY	B	Spring (2014)	45.0 ml/mx				
	COC	100 %		SL	1 % v/v		OCTOBER	A	Fall burndown (2013)	18.0 ml/mx				
6	TRICOR	75 %		DF	4 oz/a		OCTOBER	A	Fall burndown (2013)	3.595 g/mx	202	502	704	1003
	WEEDAR 64	3.8 LBAE/GAL		L	16 fl oz/a		OCTOBER	A	Fall burndown (2013)	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		EC	16 fl oz/a		OCTOBER	A	Fall burndown (2013)	15.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		SL	2.5 % v/v		OCTOBER	A	Fall burndown (2013)	45.0 ml/mx				
	TRICOR	75 %		DF	4 oz/a		MAY	B	Spring (2014)	3.595 g/mx				
	VALOR XLT @ 3.5 OZ													
	VALOR SX	51 %		WG	2.05 oz/a		MAY	B	Spring (2014)	1.842 g/mx				
	CLASSIC	25 %		WG	1.45 oz/a		MAY	B	Spring (2014)	1.303 g/mx				
	WEEDAR 64	3.8 LBAE/GAL		L	16 fl oz/a		MAY	B	Spring (2014)	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		EC	22 fl oz/a		MAY	B	Spring (2014)	20.62 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		SL	2.5 % v/v		MAY	B	Spring (2014)	45.0 ml/mx				
7	WEEDAR 64	3.8 LBAE/GAL		L	16 fl oz/a		OCTOBER	A	Fall burndown (2013)	15.0 ml/mx	203	401	703	904
	ROUNDUP POWERMAX	4.5 LBAE/GAL		EC	16 fl oz/a		OCTOBER	A	Fall burndown (2013)	15.0 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		SL	2.5 % v/v		OCTOBER	A	Fall burndown (2013)	45.0 ml/mx				
	TRICOR	75 %		DF	8 oz/a		MAY	B	Spring (2014)	7.19 g/mx				
	VALOR XLT @ 3.5 OZ													
	VALOR SX	51 %		WG	2.05 oz/a		MAY	B	Spring (2014)	1.842 g/mx				
	CLASSIC	25 %		WG	1.45 oz/a		MAY	B	Spring (2014)	1.303 g/mx				
	WEEDAR 64	3.8 LBAE/GAL		L	16 fl oz/a		MAY	B	Spring (2014)	15.0 ml/mx				
	ROUNDUP POWERMAX	4.5 LBAE/GAL		EC	22 fl oz/a		MAY	B	Spring (2014)	20.62 ml/mx				
	N-PAK AMS	3.4 LBA/GAL		SL	2.5 % v/v		MAY	B	Spring (2014)	45.0 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	Form Type	Rate	Rate Unit	Growth Stage	Appl Code	Appl Description	Amt Product to Measure	Rep 1	2	3	4					
8	VALOR XLT @ 3 OZ							A	Fall burndown (2013)		204	501	802	1002					
	VALOR SX	51 %		WG	1.76 oz/a			A	Fall burndown (2013)	1.582 g/mx									
	CLASSIC	25 %		WG	1.24 oz/a			A	Fall burndown (2013)	1.114 g/mx									
	WEEDAR 64	3.8 LBAE/GAL	L		1 pt/a			A	Fall burndown (2013)	15.0 ml/mx									
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a			A	Fall burndown (2013)	20.62 ml/mx									
	N-PAK AMS	3.4 LBA/GAL	SL		2.5 % v/v			A	Fall burndown (2013)	45.0 ml/mx									
	VALOR XLT @ 3 OZ							B	Spring (2014)	1.582 g/mx									
	VALOR SX	51 %		WG	1.76 oz/a			B	Spring (2014)	1.114 g/mx									
	CLASSIC	25 %		WG	1.24 oz/a			B	Spring (2014)	1.114 g/mx									
	WEEDAR 64	3.8 LBAE/GAL	L		1 pt/a			B	Spring (2014)	15.0 ml/mx									
	ROUNDUP POWERMAX	4.5 LBAE/GAL	SL		22 fl oz/a			B	Spring (2014)	20.62 ml/mx									
	N-PAK AMS	3.4 LBA/GAL	SL		2.5 % v/v			B	Spring (2014)	45.0 ml/mx									
	9	CANOPY	75 %		DG	2.25 oz/a			A	Fall burndown (2013)					2.022 g/mx	301	303	701	1004
		WEEDAR 64	3.8 LBAE/GAL	L		1 pt/a			A	Fall burndown (2013)					15.0 ml/mx				
ROUNDUP POWERMAX		4.5 LBAE/GAL	SL		22 fl oz/a			A	Fall burndown (2013)	20.62 ml/mx									
N-PAK AMS		3.4 LBA/GAL	SL		2.5 % v/v			A	Fall burndown (2013)	45.0 ml/mx									
VALOR XLT @ 3 OZ								B	Spring (2014)	1.582 g/mx									
VALOR SX		51 %		WG	1.76 oz/a			B	Spring (2014)	1.582 g/mx									
CLASSIC		25 %		WG	1.24 oz/a			B	Spring (2014)	1.114 g/mx									
WEEDAR 64		3.8 LBAE/GAL	L		1 pt/a			B	Spring (2014)	15.0 ml/mx									
ROUNDUP POWERMAX		4.5 LBAE/GAL	SL		22 fl oz/a			B	Spring (2014)	20.62 ml/mx									
N-PAK AMS		3.4 LBA/GAL	SL		2.5 % v/v			B	Spring (2014)	45.0 ml/mx									
10	Untreated Check									302	504	603	901						

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
50.327	g	TRICOR	75	DF	
153.750	ml	ROUNDUP POWERMAX	4.5	EC	
15.799	g	VALOR SX	51	WG	
11.162	g	CLASSIC	25	WG	
209.993	ml	WEEDAR 64	3.8	L	
539.941	ml	N-PAK AMS	3.4	SL	
71.992	ml	COC	100	SL	
82.500	ml	ROUNDUP POWERMAX	4.5	SL	
2.022	g	CANOPY	75	DG	

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

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

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**Evaluate Tricor in a fall burndown program followed by spring herbicide burndown programs in Roundup Ready soybeans in Indiana.**

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Protocol ID: 13F-SEP-NTS-04	Investigator: Dr. Bill Johnson	
Project ID: Trcr-06-US-IN-14-03TLE	Study Director: Joe Ikley	
	Sponsor Contact: UPI - Tony Estes/Valent - Eric Ott	

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	ALLVI	SETFA	AMBEL	ALLVI	ERICA		
Pest Scientific Name	Allium vineale	Setaria faberi	Ambrosia artem>	Allium vineale	Conyza canadens>		
Pest Name	Wild garlic	Giant foxtail	Common ragweed	Wild garlic	Canada horsewe>		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	5/1/2014	5/1/2014	5/1/2014	5/8/2014	5/8/2014		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Days After First/Last Applic.	177 177	177 177	177 177	184 184	184 184		
Trt-Eval Interval				0 DA-B	0 DA-B		
ARM Action Codes	P	P	P	P	P		
Number of Decimals	0	0	0	0	0		
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code Plot	1	2	3	4	5
1 Untreated Check		101	0	0	0	0	0
		503	0	0	0	0	0
		601	0	0	0	0	0
		902	0*	0	0	0	0
		Mean =	0	0	0	0	0
2 TRICOR	8 oz/a A	102	0	0	0	0	.
ROUNDUP POWERMAX	22 fl oz/a B	404	0	0	0	0*	.
VALOR XLT @ 3.5 OZ		602	0	0	0	0*	.
VALOR SX	2.05 oz/a B	804	0	0	0	0*	.
CLASSIC	1.45 oz/a B						.
WEEDAR 64	16 fl oz/a B						.
N-PAK AMS	2.5 % v/v B						.
COC	1 % v/v A						.
		Mean =	0	0	0	0	.
3 TRICOR	12 oz/a A	103	0	0	0	0	.
ROUNDUP POWERMAX	22 fl oz/a B	403	0	0	0	0*	.
VALOR XLT @ 3.5 OZ		702	0	0	0	0*	.
VALOR SX	2.05 oz/a B	1001	0*	0	0	0*	.
CLASSIC	1.45 oz/a B						.
WEEDAR 64	16 fl oz/a B						.
N-PAK AMS	2.5 % v/v B						.
COC	1 % v/v A						.
		Mean =	0	0	0	0	.
4 TRICOR	8 oz/a A	104	50	0	0	0	.
WEEDAR 64	16 fl oz/a A	402	0	0	0	0*	.
ROUNDUP POWERMAX	22 fl oz/a B	801	0	0	0	0*	.
VALOR XLT @ 3.5 OZ		903	7*	0	0	0*	.
VALOR SX	2.05 oz/a B						.
CLASSIC	1.45 oz/a B						.
WEEDAR 64	16 fl oz/a B						.
N-PAK AMS	2.5 % v/v B						.
COC	1 % v/v A						.
		Mean =	14	0	0	0	.
5 TRICOR	12 oz/a A	201	0	0	0	.	.
WEEDAR 64	16 fl oz/a A	304	50	0	0	.	.
ROUNDUP POWERMAX	22 fl oz/a B	604	0	0	0	.	.
VALOR XLT @ 3.5 OZ		803	0	0	0	.	.
VALOR SX	2.05 oz/a B					.	.
CLASSIC	1.45 oz/a B					.	.
WEEDAR 64	16 fl oz/a B					.	.
N-PAK AMS	2.5 % v/v B					.	.
COC	1 % v/v A					.	.
		Mean =	13	0	0	.	.

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Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	ALLVI	SETFA	AMBEL	ALLVI	ERICA		
Pest Scientific Name	Allium vineale	Setaria faberi	Ambrosia artem>	Allium vineale	Conyza canadens>		
Pest Name	Wild garlic	Giant foxtail	Common ragweed	Wild garlic	Canada horsewe>		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	5/1/2014	5/1/2014	5/1/2014	5/8/2014	5/8/2014		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Days After First/Last Applic.	177 177	177 177	177 177	184 184	184 184		
Trt-Eval Interval				0 DA-B	0 DA-B		
ARM Action Codes	P	P	P	P	P		
Number of Decimals	0	0	0	0	0		
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code Plot	1	2	3	4	5
6 TRICOR	4 oz/a	A 202	30	0	0	.	.
WEEDAR 64	16 fl oz/a	A 502	80	0	0	.	.
ROUNDUP POWERMAX	16 fl oz/a	A 704	50	0	0	.	.
N-PAK AMS	2.5 % v/v	A 1003	44*	0	0	.	.
TRICOR	4 oz/a	B				.	.
VALOR XLT @ 3.5 OZ							
VALOR SX	2.05 oz/a	B					
CLASSIC	1.45 oz/a	B					
WEEDAR 64	16 fl oz/a	B					
ROUNDUP POWERMAX	22 fl oz/a	B					
N-PAK AMS	2.5 % v/v	B					
Mean =			51	0	0	.	.
7 WEEDAR 64	16 fl oz/a	A 203	0	0	0	.	.
ROUNDUP POWERMAX	16 fl oz/a	A 401	0	0	0	.	.
N-PAK AMS	2.5 % v/v	A 703	50	0	0	.	.
TRICOR	8 oz/a	B 904	0	0	0	.	.
VALOR XLT @ 3.5 OZ							
VALOR SX	2.05 oz/a	B					
CLASSIC	1.45 oz/a	B					
WEEDAR 64	16 fl oz/a	B					
ROUNDUP POWERMAX	22 fl oz/a	B					
N-PAK AMS	2.5 % v/v	B					
Mean =			13	0	0	.	.
8 VALOR XLT @ 3 OZ		A 204	95	90	95	70	100
VALOR SX	1.76 oz/a	A 501	95	70	90	90	95
CLASSIC	1.24 oz/a	A 802	90	80	93*	90	100
WEEDAR 64	1 pt/a	A 1002	84*	80	93*	83*	80
ROUNDUP POWERMAX	22 fl oz/a	A					
N-PAK AMS	2.5 % v/v	A					
VALOR XLT @ 3 OZ							
VALOR SX	1.76 oz/a	B					
CLASSIC	1.24 oz/a	B					
WEEDAR 64	1 pt/a	B					
ROUNDUP POWERMAX	22 fl oz/a	B					
N-PAK AMS	2.5 % v/v	B					
Mean =			91	80	93	83	94
9 CANOPY	2.25 oz/a	A 301	90	80	95	95	90
WEEDAR 64	1 pt/a	A 303	80	90	80	80	30
ROUNDUP POWERMAX	22 fl oz/a	A 701	95	0	88*	90	85
N-PAK AMS	2.5 % v/v	A 1004	79*	0	88*	88*	95
VALOR XLT @ 3 OZ							
VALOR SX	1.76 oz/a	B					
CLASSIC	1.24 oz/a	B					
WEEDAR 64	1 pt/a	B					
ROUNDUP POWERMAX	22 fl oz/a	B					
N-PAK AMS	2.5 % v/v	B					
Mean =			86	43	88	88	75
10 Untreated Check		302	0	0	0	0	0
		504	0	0	0	0	0
		603	0	0	0	0	0
		901	0	0	0	0	0
Mean =			0	0	0	0	0



# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	SETFA	AMBEL	ALLVI	ERICA	SETFA		
Pest Scientific Name	Setaria faberi	Ambrosia artem	Allium vineale	Conyza canadens	Setaria faberi		
Pest Name	Giant foxtail	Common ragweed	Wild garlic	Canada horsewee	Giant foxtail		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	5/8/2014	5/8/2014	6/5/2014	6/5/2014	6/5/2014		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Days After First/Last Applic.	184 184	184 184	212 28	212 28	212 28		
Trt-Eval Interval	0 DA-B	0 DA-B	28 DA-B	28 DA-B	28 DA-B		
ARM Action Codes	P	P	P	P	P		
Number of Decimals	0	0	0	0	0		
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code Plot	6	7	8	9	10
1 Untreated Check		101	0	0	0	0	0
		503	0	0	0	0	0
		601	0	0	0	0	0
		902	0	0	0	0	0
		Mean =	0	0	0	0	0
2 TRICOR	8 oz/a A	102	.	0	90	95	100
ROUNDUP POWERMAX	22 fl oz/a B	404	.	0*	95	85	85
VALOR XLT @ 3.5 OZ		602	.	0*	100	100	85
VALOR SX	2.05 oz/a B	804	.	0*	100	100	95
CLASSIC	1.45 oz/a B						
WEEDAR 64	16 fl oz/a B						
N-PAK AMS	2.5 % v/v B						
COC	1 % v/v A						
		Mean =	.	0	96	95	91
3 TRICOR	12 oz/a A	103	.	0	95	80	100
ROUNDUP POWERMAX	22 fl oz/a B	403	.	0*	90	90	100
VALOR XLT @ 3.5 OZ		702	.	0*	100	100	90
VALOR SX	2.05 oz/a B	1001	.	0*	100	100	95
CLASSIC	1.45 oz/a B						
WEEDAR 64	16 fl oz/a B						
N-PAK AMS	2.5 % v/v B						
COC	1 % v/v A						
		Mean =	.	0	96	93	96
4 TRICOR	8 oz/a A	104	.	0	95	80	90
WEEDAR 64	16 fl oz/a A	402	.	0*	100	95	95
ROUNDUP POWERMAX	22 fl oz/a B	801	.	0*	100	100	100
VALOR XLT @ 3.5 OZ		903	.	0*	95	100	90
VALOR SX	2.05 oz/a B						
CLASSIC	1.45 oz/a B						
WEEDAR 64	16 fl oz/a B						
N-PAK AMS	2.5 % v/v B						
COC	1 % v/v A						
		Mean =	.	0	98	94	94
5 TRICOR	12 oz/a A	201	.	.	90	100	100
WEEDAR 64	16 fl oz/a A	304	.	.	100	100	95
ROUNDUP POWERMAX	22 fl oz/a B	604	.	.	100	100	85
VALOR XLT @ 3.5 OZ		803	.	.	100	100	85
VALOR SX	2.05 oz/a B						
CLASSIC	1.45 oz/a B						
WEEDAR 64	16 fl oz/a B						
N-PAK AMS	2.5 % v/v B						
COC	1 % v/v A						
		Mean =	.	.	98	100	91

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	SETFA	AMBEL	ALLVI	ERICA	SETFA		
Pest Scientific Name	Setaria faberi	Ambrosia artem>	Allium vineale	Conyza canadens>	Setaria faberi		
Pest Name	Giant foxtail	Common ragweed	Wild garlic	Canada horsewe>	Giant foxtail		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	5/8/2014	5/8/2014	6/5/2014	6/5/2014	6/5/2014		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Days After First/Last Applic.	184 184	184 184	212 28	212 28	212 28		
Trt-Eval Interval	0 DA-B	0 DA-B	28 DA-B	28 DA-B	28 DA-B		
ARM Action Codes	P	P	P	P	P		
Number of Decimals	0	0	0	0	0		
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code Plot	6	7	8	9	10
6 TRICOR	4 oz/a	A 202	.	.	100	100	95
WEEDAR 64	16 fl oz/a	A 502	.	.	100	95	90
ROUNDUP POWERMAX	16 fl oz/a	A 704	.	.	100	85	90
N-PAK AMS	2.5 % v/v	A 1003	.	.	100	100	90
TRICOR	4 oz/a	B					
VALOR XLT @ 3.5 OZ							
VALOR SX	2.05 oz/a	B					
CLASSIC	1.45 oz/a	B					
WEEDAR 64	16 fl oz/a	B					
ROUNDUP POWERMAX	22 fl oz/a	B					
N-PAK AMS	2.5 % v/v	B					
Mean =			.	.	100	95	91
7 WEEDAR 64	16 fl oz/a	A 203	.	.	100	100	95
ROUNDUP POWERMAX	16 fl oz/a	A 401	.	.	100	100	100
N-PAK AMS	2.5 % v/v	A 703	.	.	100	100	90
TRICOR	8 oz/a	B 904	.	.	100	100	100
VALOR XLT @ 3.5 OZ							
VALOR SX	2.05 oz/a	B					
CLASSIC	1.45 oz/a	B					
WEEDAR 64	16 fl oz/a	B					
ROUNDUP POWERMAX	22 fl oz/a	B					
N-PAK AMS	2.5 % v/v	B					
Mean =			.	.	100	100	96
8 VALOR XLT @ 3 OZ		A 204	80	85	100	100	100
VALOR SX	1.76 oz/a	A 501	10	80	100	100	90
CLASSIC	1.24 oz/a	A 802	10	30	100	100	100
WEEDAR 64	1 pt/a	A 1002	10	65*	100	100	100
ROUNDUP POWERMAX	22 fl oz/a	A					
N-PAK AMS	2.5 % v/v	A					
VALOR XLT @ 3 OZ							
VALOR SX	1.76 oz/a	B					
CLASSIC	1.24 oz/a	B					
WEEDAR 64	1 pt/a	B					
ROUNDUP POWERMAX	22 fl oz/a	B					
N-PAK AMS	2.5 % v/v	B					
Mean =			28	65	100	100	98
9 CANOPY	2.25 oz/a	A 301	20	80	100	95	80
WEEDAR 64	1 pt/a	A 303	80	80	100	100	100
ROUNDUP POWERMAX	22 fl oz/a	A 701	20	80	100	100	95
N-PAK AMS	2.5 % v/v	A 1004	0	80	100	100	90
VALOR XLT @ 3 OZ							
VALOR SX	1.76 oz/a	B					
CLASSIC	1.24 oz/a	B					
WEEDAR 64	1 pt/a	B					
ROUNDUP POWERMAX	22 fl oz/a	B					
N-PAK AMS	2.5 % v/v	B					
Mean =			30	80	100	99	91
10 Untreated Check		302	0	0	0	0	0
		504	0	0	0	0	0
		603	0	0	0	0	0
		901	0	0	0	0	0
Mean =			0	0	0	0	0

# Purdue University Weed Science

				W Weed AMBEL Ambrosia artem>	W Weed ERICA Conyza canad>	W Weed SETFA Setaria faberi	W Weed AMBEL Ambrosia artem>
				Common ragweed	Canada horsewe>	Giant foxtail	Common ragweed
Pest Type				PLOT P	PLOT P	PLOT P	PLOT P
Pest Code				6/5/2014	6/25/2014	6/25/2014	6/25/2014
Pest Scientific Name				CONTRO	CONTRO	CONTRO	CONTRO
Pest Name				%	%	%	%
Part Rated				1 PLOT	1 PLOT	1 PLOT	1 PLOT
Rating Date				212 28	232 48	232 48	232 48
Rating Type				28 DA-B	48 DA-B	48 DA-B	48 DA-B
Rating Unit				P	P	P	P
Sample Size, Unit				0	0	0	0
Days After First/Last Applic.							
Tri-Eval Interval							
ARM Action Codes							
Number of Decimals							
Tri Treatment	Rate	Appl					
No. Name	Rate Unit	Code	Plot	11	12	13	14
1 Untreated Check			101	0	0	0	0
			503	0	0	0	0
			601	0	0	0	0
			902	0	0	0	0
			Mean =	0	0	0	0
2 TRICOR	8 oz/a	A	102	100	90	30	80
ROUNDUP POWERMAX	22 fl oz/a	B	404	100	70	40	90
VALOR XLT @ 3.5 OZ			602	100	100	20	90
VALOR SX	2.05 oz/a	B	804	100	100	10	100
CLASSIC	1.45 oz/a	B					
WEEDAR 64	16 fl oz/a	B					
N-PAK AMS	2.5 % v/v	B					
COC	1 % v/v	A					
			Mean =	100	90	25	90
3 TRICOR	12 oz/a	A	103	100	60	30	85
ROUNDUP POWERMAX	22 fl oz/a	B	403	100	85	30	100
VALOR XLT @ 3.5 OZ			702	85	100	30	80
VALOR SX	2.05 oz/a	B	1001	95	100	20	30
CLASSIC	1.45 oz/a	B					
WEEDAR 64	16 fl oz/a	B					
N-PAK AMS	2.5 % v/v	B					
COC	1 % v/v	A					
			Mean =	95	86	28	74
4 TRICOR	8 oz/a	A	104	100	70	30	70
WEEDAR 64	16 fl oz/a	A	402	100	90	30	90
ROUNDUP POWERMAX	22 fl oz/a	B	801	90	100	30	70
VALOR XLT @ 3.5 OZ			903	100	90	20	80
VALOR SX	2.05 oz/a	B					
CLASSIC	1.45 oz/a	B					
WEEDAR 64	16 fl oz/a	B					
N-PAK AMS	2.5 % v/v	B					
COC	1 % v/v	A					
			Mean =	98	88	28	78
5 TRICOR	12 oz/a	A	201	100	100	50	90
WEEDAR 64	16 fl oz/a	A	304	100	100	50	100
ROUNDUP POWERMAX	22 fl oz/a	B	604	100	90	30	100
VALOR XLT @ 3.5 OZ			803	100	100	10	100
VALOR SX	2.05 oz/a	B					
CLASSIC	1.45 oz/a	B					
WEEDAR 64	16 fl oz/a	B					
N-PAK AMS	2.5 % v/v	B					
COC	1 % v/v	A					
			Mean =	100	98	35	98

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed
Pest Code	AMBEL	ERICA	SETFA	AMBEL
Pest Scientific Name	Ambrosia artem>	Conyza canadens>	Setaria faberi	Ambrosia artem>
Pest Name	Common ragweed	Canada horsewe>	Giant foxtail	Common ragweed
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P
Rating Date	6/5/2014	6/25/2014	6/25/2014	6/25/2014
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT
Days After First/Last Applic.	212 28	232 48	232 48	232 48
Trt-Eval Interval	28 DA-B	48 DA-B	48 DA-B	48 DA-B
ARM Action Codes	P	P	P	P
Number of Decimals	0	0	0	0
Trt Treatment	Rate	Appl		
No. Name	Rate Unit	Code Plot	11	12
6 TRICOR	4 oz/a	A 202	95	100
WEEDAR 64	16 fl oz/a	A 502	100	95
ROUNDUP POWERMAX	16 fl oz/a	A 704	100	90
N-PAK AMS	2.5 % v/v	A 1003	95	90
TRICOR	4 oz/a	B		
VALOR XLT @ 3.5 OZ				
VALOR SX	2.05 oz/a	B		
CLASSIC	1.45 oz/a	B		
WEEDAR 64	16 fl oz/a	B		
ROUNDUP POWERMAX	22 fl oz/a	B		
N-PAK AMS	2.5 % v/v	B		
Mean =			98	94
7 WEEDAR 64	16 fl oz/a	A 203	95	100
ROUNDUP POWERMAX	16 fl oz/a	A 401	95	95
N-PAK AMS	2.5 % v/v	A 703	100	100
TRICOR	8 oz/a	B 904	100	100
VALOR XLT @ 3.5 OZ				
VALOR SX	2.05 oz/a	B		
CLASSIC	1.45 oz/a	B		
WEEDAR 64	16 fl oz/a	B		
ROUNDUP POWERMAX	22 fl oz/a	B		
N-PAK AMS	2.5 % v/v	B		
Mean =			98	99
8 VALOR XLT @ 3 OZ		A 204	100	100
VALOR SX	1.76 oz/a	A 501	100	95
CLASSIC	1.24 oz/a	A 802	100	100
WEEDAR 64	1 pt/a	A 1002	100	100
ROUNDUP POWERMAX	22 fl oz/a	A		100
N-PAK AMS	2.5 % v/v	A		
VALOR XLT @ 3 OZ				
VALOR SX	1.76 oz/a	B		
CLASSIC	1.24 oz/a	B		
WEEDAR 64	1 pt/a	B		
ROUNDUP POWERMAX	22 fl oz/a	B		
N-PAK AMS	2.5 % v/v	B		
Mean =			100	99
9 CANOPY	2.25 oz/a	A 301	95	85
WEEDAR 64	1 pt/a	A 303	100	95
ROUNDUP POWERMAX	22 fl oz/a	A 701	100	100
N-PAK AMS	2.5 % v/v	A 1004	95	100
VALOR XLT @ 3 OZ				
VALOR SX	1.76 oz/a	B		
CLASSIC	1.24 oz/a	B		
WEEDAR 64	1 pt/a	B		
ROUNDUP POWERMAX	22 fl oz/a	B		
N-PAK AMS	2.5 % v/v	B		
Mean =			98	95
10 Untreated Check		302	0	0
		504	0	0
		603	0	0
		901	0	0
Mean =			0	0

## Purdue University Weed Science

**Evaluate Tricor in a fall burndown program followed by spring herbicide burndown programs in Roundup Ready soybeans in Indiana.**

Trial ID: 13F-SEP-NTS-04                      Location: Indiana                      Trial Year: 2014  
Protocol ID: 13F-SEP-NTS-04                      Investigator: Dr. Bill Johnson  
Project ID: Trcr-06-US-IN-14-03TLE                      Study Director: Joe Ikley  
Sponsor Contact: UPI - Tony Estes/Valent - Eric Ott

Pest Type

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

Pest Code

ALLVI, Allium vineale, = US

SETFA, Setaria faberi, = US

AMBEL, Ambrosia artemisiifolia, = US

ERICA, Conyza canadensis, = US

Part Rated

PLOT = plot

P = Pest is Part Rated

Rating Type

CONTRO = control / burndown or knockdown

Rating Unit

% = percent

PLOT = total plot

ARM Action Codes

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

# Purdue University Weed Science

**Evaluate Tricor in a fall burndown program followed by spring herbicide burndown programs in Roundup Ready soybeans in Indiana.**

Trial ID: 13F-SEP-NTS-04	Location: Indiana	Trial Year: 2014
Protocol ID: 13F-SEP-NTS-04	Investigator: Dr. Bill Johnson	
Project ID: Trcr-06-US-IN-14-03TLE	Study Director: Joe Ikley	
	Sponsor Contact: UPI - Tony Estes/Valent - Eric Ott	

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	ALLVI	SETFA	AMBEL	ALLVI	ERICA	SETFA		
Pest Scientific Name	Allium vineale	Setaria faberi	Ambrosia artem>	Allium vineale	Conyza canadens>	Setaria faberi		
Pest Name	Wild garlic	Giant foxtail	Common ragweed	Wild garlic	Canada horsewe>	Giant foxtail		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	5/1/2014	5/1/2014	5/1/2014	5/8/2014	5/8/2014	5/8/2014		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Days After First/Last Applic.	177 177	177 177	177 177	184 184	184 184	184 184		
Trt-Eval Interval				0 DA-B	0 DA-B	0 DA-B		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment No. Name	Rate	Appl						
	Rate Unit	Code	1	2	3	4	5	6
1 Untreated Check			0 c	0 c	0 c	0 b	0 b	0 a
2 TRICOR	8 oz/a	A	0 c	0 c	0 c	0 b		
ROUNDUP POWERMAX	22 fl oz/a	B						
VALOR XLT @ 3.5 OZ								
VALOR SX	2.05 oz/a	B						
CLASSIC	1.45 oz/a	B						
WEEDAR 64	16 fl oz/a	B						
N-PAK AMS	2.5 % v/v	B						
COC	1 % v/v	A						
3 TRICOR	12 oz/a	A	0 c	0 c	0 c	0 b		
ROUNDUP POWERMAX	22 fl oz/a	B						
VALOR XLT @ 3.5 OZ								
VALOR SX	2.05 oz/a	B						
CLASSIC	1.45 oz/a	B						
WEEDAR 64	16 fl oz/a	B						
N-PAK AMS	2.5 % v/v	B						
COC	1 % v/v	A						
4 TRICOR	8 oz/a	A	14 c	0 c	0 c	0 b		
WEEDAR 64	16 fl oz/a	A						
ROUNDUP POWERMAX	22 fl oz/a	B						
VALOR XLT @ 3.5 OZ								
VALOR SX	2.05 oz/a	B						
CLASSIC	1.45 oz/a	B						
WEEDAR 64	16 fl oz/a	B						
N-PAK AMS	2.5 % v/v	B						
COC	1 % v/v	A						
5 TRICOR	12 oz/a	A	13 c	0 c	0 c			
WEEDAR 64	16 fl oz/a	A						
ROUNDUP POWERMAX	22 fl oz/a	B						
VALOR XLT @ 3.5 OZ								
VALOR SX	2.05 oz/a	B						
CLASSIC	1.45 oz/a	B						
WEEDAR 64	16 fl oz/a	B						
N-PAK AMS	2.5 % v/v	B						
COC	1 % v/v	A						

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; Average=3,4,7

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	ALLVI	SETFA	AMBEL	ALLVI	ERICA	SETFA		
Pest Scientific Name	Allium vineale	Setaria faberi	Ambrosia artem>	Allium vineale	Conyza canadens>	Setaria faberi		
Pest Name	Wild garlic	Giant foxtail	Common ragweed	Wild garlic	Canada horsewe>	Giant foxtail		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	5/1/2014	5/1/2014	5/1/2014	5/8/2014	5/8/2014	5/8/2014		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Days After First/Last Applic.	177 177	177 177	177 177	184 184	184 184	184 184		
Trt-Eval Interval				0 DA-B	0 DA-B	0 DA-B		
ARM Action Codes	P	P	P	P	P	P		
Number of Decimals	0	0	0	0	0	0		
Trt Treatment No. Name	Rate Rate Unit	Appl Code	1	2	3	4	5	6
6 TRICOR	4 oz/a	A	51 b	0 c	0 c			
WEEDAR 64	16 fl oz/a	A						
ROUNDUP POWERMAX	16 fl oz/a	A						
N-PAK AMS	2.5 % v/v	A						
TRICOR	4 oz/a	B						
VALOR XLT @ 3.5 OZ								
VALOR SX	2.05 oz/a	B						
CLASSIC	1.45 oz/a	B						
WEEDAR 64	16 fl oz/a	B						
ROUNDUP POWERMAX	22 fl oz/a	B						
N-PAK AMS	2.5 % v/v	B						
7 WEEDAR 64	16 fl oz/a	A	13 c	0 c	0 c			
ROUNDUP POWERMAX	16 fl oz/a	A						
N-PAK AMS	2.5 % v/v	A						
TRICOR	8 oz/a	B						
VALOR XLT @ 3.5 OZ								
VALOR SX	2.05 oz/a	B						
CLASSIC	1.45 oz/a	B						
WEEDAR 64	16 fl oz/a	B						
ROUNDUP POWERMAX	22 fl oz/a	B						
N-PAK AMS	2.5 % v/v	B						
8 VALOR XLT @ 3 OZ		A	91 a	80 a	93 a	83 a	94 a	28 a
VALOR SX	1.76 oz/a	A						
CLASSIC	1.24 oz/a	A						
WEEDAR 64	1 pt/a	A						
ROUNDUP POWERMAX	22 fl oz/a	A						
N-PAK AMS	2.5 % v/v	A						
VALOR XLT @ 3 OZ								
VALOR SX	1.76 oz/a	B						
CLASSIC	1.24 oz/a	B						
WEEDAR 64	1 pt/a	B						
ROUNDUP POWERMAX	22 fl oz/a	B						
N-PAK AMS	2.5 % v/v	B						
9 CANOPY	2.25 oz/a	A	86 a	43 b	88 b	88 a	75 a	30 a
WEEDAR 64	1 pt/a	A						
ROUNDUP POWERMAX	22 fl oz/a	A						
N-PAK AMS	2.5 % v/v	A						
VALOR XLT @ 3 OZ								
VALOR SX	1.76 oz/a	B						
CLASSIC	1.24 oz/a	B						
WEEDAR 64	1 pt/a	B						
ROUNDUP POWERMAX	22 fl oz/a	B						
N-PAK AMS	2.5 % v/v	B						
10 Untreated Check			0 c	0 c	0 c	0 b	0 b	0 a
LSD (P=.05)			26.1	22.9	3.1	12.1	25.9	40.6
Standard Deviation			17.8	15.8	2.1	7.2	16.2	25.4
CV			66.44	129.05	11.87	29.51	38.32	176.69
Bartlett's X2			8.542	6.674	0.973	0.324	3.322	0.0
P(Bartlett's X2)			0.129	0.01*	0.324	0.569	0.068	0.986
Skewness			1.0132*	2.073*	2.6086*	0.7234	0.2455	2.1865*
Kurtosis			-0.7045	2.4851*	5.1374*	-1.6227	-2.111	3.7782*

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	AMBEL	ALLVI	ERICA	SETFA	AMBEL		
Pest Scientific Name	Ambrosia artem>	Allium vineale	Conyza canad>	Setaria faberi	Ambrosia artem>		
Pest Name	Common ragweed	Wild garlic	Canada horsewe>	Giant foxtail	Common ragweed		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	5/8/2014	6/5/2014	6/5/2014	6/5/2014	6/5/2014		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Days After First/Last Applic.	184 184	212 28	212 28	212 28	212 28		
Trt-Eval Interval	0 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B		
ARM Action Codes	P	P	P	P	P		
Number of Decimals	0	0	0	0	0		
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code	7	8	9	10	11
1 Untreated Check			0 b	0 b	0 b	0 b	0 b
2 TRICOR	8 oz/a	A	0 b	96 a	95 a	91 a	100 a
ROUNDUP POWERMAX	22 fl oz/a	B					
VALOR XLT @ 3.5 OZ							
VALOR SX	2.05 oz/a	B					
CLASSIC	1.45 oz/a	B					
WEEDAR 64	16 fl oz/a	B					
N-PAK AMS	2.5 % v/v	B					
COC	1 % v/v	A					
3 TRICOR	12 oz/a	A	0 b	96 a	93 a	96 a	95 a
ROUNDUP POWERMAX	22 fl oz/a	B					
VALOR XLT @ 3.5 OZ							
VALOR SX	2.05 oz/a	B					
CLASSIC	1.45 oz/a	B					
WEEDAR 64	16 fl oz/a	B					
N-PAK AMS	2.5 % v/v	B					
COC	1 % v/v	A					
4 TRICOR	8 oz/a	A	0 b	98 a	94 a	94 a	98 a
WEEDAR 64	16 fl oz/a	A					
ROUNDUP POWERMAX	22 fl oz/a	B					
VALOR XLT @ 3.5 OZ							
VALOR SX	2.05 oz/a	B					
CLASSIC	1.45 oz/a	B					
WEEDAR 64	16 fl oz/a	B					
N-PAK AMS	2.5 % v/v	B					
COC	1 % v/v	A					
5 TRICOR	12 oz/a	A		98 a	100 a	91 a	100 a
WEEDAR 64	16 fl oz/a	A					
ROUNDUP POWERMAX	22 fl oz/a	B					
VALOR XLT @ 3.5 OZ							
VALOR SX	2.05 oz/a	B					
CLASSIC	1.45 oz/a	B					
WEEDAR 64	16 fl oz/a	B					
N-PAK AMS	2.5 % v/v	B					
COC	1 % v/v	A					



## Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed	W Weed	W Weed		
Pest Code	AMBEL	ALLVI	ERICA	SETFA	AMBEL		
Pest Scientific Name	Ambrosia artem>	Allium vineale	Conyza canadens>	Setaria faberi	Ambrosia artem>		
Pest Name	Common ragweed	Wild garlic	Canada horsewe>	Giant foxtail	Common ragweed		
Part Rated	PLOT P	PLOT P	PLOT P	PLOT P	PLOT P		
Rating Date	5/8/2014	6/5/2014	6/5/2014	6/5/2014	6/5/2014		
Rating Type	CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT	1 PLOT	1 PLOT		
Days After First/Last Applic.	184 184	212 28	212 28	212 28	212 28		
Trt-Eval Interval	0 DA-B	28 DA-B	28 DA-B	28 DA-B	28 DA-B		
ARM Action Codes	P	P	P	P	P		
Number of Decimals	0	0	0	0	0		
Trt Treatment No. Name	Rate	Appl Code	7	8	9	10	11
6 TRICOR WEEDAR 64 ROUNDUP POWERMAX N-PAK AMS TRICOR VALOR XLT @ 3.5 OZ VALOR SX CLASSIC WEEDAR 64 ROUNDUP POWERMAX N-PAK AMS	4 oz/a 16 fl oz/a 16 fl oz/a 2.5 % v/v 4 oz/a 2.05 oz/a 1.45 oz/a 16 fl oz/a 22 fl oz/a 2.5 % v/v	A A A A B B B B B B B		100 a	95 a	91 a	98 a
7 WEEDAR 64 ROUNDUP POWERMAX N-PAK AMS TRICOR VALOR XLT @ 3.5 OZ VALOR SX CLASSIC WEEDAR 64 ROUNDUP POWERMAX N-PAK AMS	16 fl oz/a 16 fl oz/a 2.5 % v/v 8 oz/a 2.05 oz/a 1.45 oz/a 16 fl oz/a 22 fl oz/a 2.5 % v/v	A A A B B B B B B B		100 a	100 a	96 a	98 a
8 VALOR XLT @ 3 OZ VALOR SX CLASSIC WEEDAR 64 ROUNDUP POWERMAX N-PAK AMS VALOR XLT @ 3 OZ VALOR SX CLASSIC WEEDAR 64 ROUNDUP POWERMAX N-PAK AMS	 1.76 oz/a 1.24 oz/a 1 pt/a 22 fl oz/a 2.5 % v/v 1.76 oz/a 1.24 oz/a 1 pt/a 22 fl oz/a 2.5 % v/v	A A A A A A B B B B B B	65 a	100 a	100 a	98 a	100 a
9 CANOPY WEEDAR 64 ROUNDUP POWERMAX N-PAK AMS VALOR XLT @ 3 OZ VALOR SX CLASSIC WEEDAR 64 ROUNDUP POWERMAX N-PAK AMS	2.25 oz/a 1 pt/a 22 fl oz/a 2.5 % v/v 1.76 oz/a 1.24 oz/a 1 pt/a 22 fl oz/a 2.5 % v/v	A A A A B B B B B B	80 a	100 a	99 a	91 a	98 a
10 Untreated Check			0 b	0 b	0 b	0 b	0 b
LSD (P=.05)	23.0	3.8	7.5	8.0	4.7		
Standard Deviation	14.1	2.6	5.2	5.5	3.2		
CV	67.97	3.32	6.65	7.36	4.1		
Bartlett's X2	0.0	0.974	4.526	4.966	4.235		
P(Bartlett's X2)	.	0.808	0.34	0.664	0.375		
Skewness	0.6882	-1.5398*	-1.4926*	-1.4883*	-1.536*		
Kurtosis	-1.6453	0.4199	0.3364	0.3441	0.413		

# Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed
Pest Code	ERICA	SETFA	AMBEL
Pest Scientific Name	Conyza canadensis	Setaria faberii	Ambrosia artemisiifolia
Pest Name	Canada horseweed	Giant foxtail	Common ragweed
Part Rated	PLOT P	PLOT P	PLOT P
Rating Date	6/25/2014	6/25/2014	6/25/2014
Rating Type	CONTRO	CONTRO	CONTRO
Rating Unit	%	%	%
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT
Days After First/Last Applic.	232 48	232 48	232 48
Trt-Eval Interval	48 DA-B	48 DA-B	48 DA-B
ARM Action Codes	P	P	P
Number of Decimals	0	0	0
Trt Treatment No. Name	Rate	Appl Code	
	Rate Unit		
			12 13 14
1 Untreated Check			0 b 0 b 0 b
2 TRICOR	8 oz/a A		90 a 25 a 90 a
ROUNDUP POWERMAX	22 fl oz/a B		
VALOR XLT @ 3.5 OZ			
VALOR SX	2.05 oz/a B		
CLASSIC	1.45 oz/a B		
WEEDAR 64	16 fl oz/a B		
N-PAK AMS	2.5 % v/v B		
COC	1 % v/v A		
3 TRICOR	12 oz/a A		86 a 28 a 74 a
ROUNDUP POWERMAX	22 fl oz/a B		
VALOR XLT @ 3.5 OZ			
VALOR SX	2.05 oz/a B		
CLASSIC	1.45 oz/a B		
WEEDAR 64	16 fl oz/a B		
N-PAK AMS	2.5 % v/v B		
COC	1 % v/v A		
4 TRICOR	8 oz/a A		88 a 28 a 78 a
WEEDAR 64	16 fl oz/a A		
ROUNDUP POWERMAX	22 fl oz/a B		
VALOR XLT @ 3.5 OZ			
VALOR SX	2.05 oz/a B		
CLASSIC	1.45 oz/a B		
WEEDAR 64	16 fl oz/a B		
N-PAK AMS	2.5 % v/v B		
COC	1 % v/v A		
5 TRICOR	12 oz/a A		98 a 35 a 98 a
WEEDAR 64	16 fl oz/a A		
ROUNDUP POWERMAX	22 fl oz/a B		
VALOR XLT @ 3.5 OZ			
VALOR SX	2.05 oz/a B		
CLASSIC	1.45 oz/a B		
WEEDAR 64	16 fl oz/a B		
N-PAK AMS	2.5 % v/v B		
COC	1 % v/v A		

## Purdue University Weed Science

Pest Type	W Weed	W Weed	W Weed		
Pest Code	ERICA	SETFA	AMBEL		
Pest Scientific Name	Conyza canadensis	Setaria faberi	Ambrosia artemisiifolia		
Pest Name	Canada horseweed	Giant foxtail	Common ragweed		
Part Rated	PLOT P	PLOT P	PLOT P		
Rating Date	6/25/2014	6/25/2014	6/25/2014		
Rating Type	CONTRO	CONTRO	CONTRO		
Rating Unit	%	%	%		
Sample Size, Unit	1 PLOT	1 PLOT	1 PLOT		
Days After First/Last Applic.	232 48	232 48	232 48		
Trt-Eval Interval	48 DA-B	48 DA-B	48 DA-B		
ARM Action Codes	P	P	P		
Number of Decimals	0	0	0		
Trt Treatment No. Name	Rate Rate Unit	Appl Code	12	13	14
6 TRICOR	4 oz/a	A	94 a	28 a	85 a
WEEDAR 64	16 fl oz/a	A			
ROUNDUP POWERMAX	16 fl oz/a	A			
N-PAK AMS	2.5 % v/v	A			
TRICOR	4 oz/a	B			
VALOR XLT @ 3.5 OZ					
VALOR SX	2.05 oz/a	B			
CLASSIC	1.45 oz/a	B			
WEEDAR 64	16 fl oz/a	B			
ROUNDUP POWERMAX	22 fl oz/a	B			
N-PAK AMS	2.5 % v/v	B			
7 WEEDAR 64	16 fl oz/a	A	99 a	30 a	89 a
ROUNDUP POWERMAX	16 fl oz/a	A			
N-PAK AMS	2.5 % v/v	A			
TRICOR	8 oz/a	B			
VALOR XLT @ 3.5 OZ					
VALOR SX	2.05 oz/a	B			
CLASSIC	1.45 oz/a	B			
WEEDAR 64	16 fl oz/a	B			
ROUNDUP POWERMAX	22 fl oz/a	B			
N-PAK AMS	2.5 % v/v	B			
8 VALOR XLT @ 3 OZ		A	99 a	35 a	79 a
VALOR SX	1.76 oz/a	A			
CLASSIC	1.24 oz/a	A			
WEEDAR 64	1 pt/a	A			
ROUNDUP POWERMAX	22 fl oz/a	A			
N-PAK AMS	2.5 % v/v	A			
VALOR XLT @ 3 OZ					
VALOR SX	1.76 oz/a	B			
CLASSIC	1.24 oz/a	B			
WEEDAR 64	1 pt/a	B			
ROUNDUP POWERMAX	22 fl oz/a	B			
N-PAK AMS	2.5 % v/v	B			
9 CANOPY	2.25 oz/a	A	95 a	35 a	89 a
WEEDAR 64	1 pt/a	A			
ROUNDUP POWERMAX	22 fl oz/a	A			
N-PAK AMS	2.5 % v/v	A			
VALOR XLT @ 3 OZ					
VALOR SX	1.76 oz/a	B			
CLASSIC	1.24 oz/a	B			
WEEDAR 64	1 pt/a	B			
ROUNDUP POWERMAX	22 fl oz/a	B			
N-PAK AMS	2.5 % v/v	B			
10 Untreated Check			0 b	0 b	0 b
LSD (P=.05)			12.6	13.3	20.1
Standard Deviation			8.7	9.1	13.9
CV			11.61	37.71	20.39
Bartlett's X2			19.092	10.638	16.025
P(Bartlett's X2)			0.008*	0.155	0.025*
Skewness			-1.3811*	-0.0744	-1.1071*
Kurtosis			0.1175	-0.4819	-0.4218

# Purdue University Weed Science

## Evaluate Tricor in a fall burndown program followed by spring herbicide burndown programs in Roundup Ready soybeans in Indiana.

Trial ID: 13F-SEP-NTS-04                      Location: Indiana                      Trial Year: 2014  
 Protocol ID: 13F-SEP-NTS-04                  Investigator: Dr. Bill Johnson  
 Project ID: Trcr-06-US-IN-14-03TLE          Study Director: Joe Ikley  
 Sponsor Contact: UPI - Tony Estes/Valent - Eric Ott

Randomized Complete Block (RCB) AOV For W Weed ALLVI Allium vineale Wild garlic PLOT P 5/1/2014 CONTRO % 1 PLOT 177 177 P 0 (Data Column 1)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	33	53717.704023			
Replicate	3	455.633306	151.877769	0.482	0.6987
Treatment	9	46638.122633	5182.013626	16.429	0.0001
Error	21	6623.948083	315.426099		

Randomized Complete Block (RCB) AOV For W Weed SETFA Setaria faberi Giant foxtail PLOT P 5/1/2014 CONTRO % 1 PLOT 177 177 P 0 (Data Column 2)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	34297.500000			
Replicate	3	727.500000	242.500000	0.970	0.4211
Treatment	9	26822.500000	2980.277778	11.926	0.0001
Error	27	6747.500000	249.907407		

Randomized Complete Block (RCB) AOV For W Weed AMBEL Ambrosia artemisiifolia Common ragweed PLOT P 5/1/2014 CONTRO % 1 PLOT 177 177 P 0 (Data Column 3)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	35	52015.000000			
Replicate	3	20.000000	6.666667	1.460	0.2514
Treatment	9	51890.000000	5765.555556	1262.931	0.0001
Error	23	105.000000	4.565217		

Randomized Complete Block (RCB) AOV For W Weed ALLVI Allium vineale Wild garlic PLOT P 5/8/2014 CONTRO % 1 PLOT 184 184 0 DA-B P 0 (Data Column 4)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	16	42532.539683			
Replicate	3	16.666667	5.555556	0.106	0.9539
Treatment	6	42149.206349	7024.867725	134.111	0.0001
Error	7	366.666667	52.380952		

Randomized Complete Block (RCB) AOV For W Weed ERICA Conyza canadensis Canada horseweed PLOT P 5/8/2014 CONTRO % 1 PLOT 184 184 0 DA-B P 0 (Data Column 5)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	32198.437500			
Replicate	3	667.187500	222.395833	0.851	0.5002
Treatment	3	29179.687500	9726.562500	37.226	0.0001
Error	9	2351.562500	261.284722		

Randomized Complete Block (RCB) AOV For W Weed SETFA Setaria faberi Giant foxtail PLOT P 5/8/2014 CONTRO % 1 PLOT 184 184 0 DA-B P 0 (Data Column 6)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	15	10593.750000			
Replicate	3	1468.750000	489.583333	0.759	0.5448
Treatment	3	3318.750000	1106.250000	1.715	0.2331
Error	9	5806.250000	645.138889		

Randomized Complete Block (RCB) AOV For W Weed AMBEL Ambrosia artemisiifolia Common ragweed PLOT P 5/8/2014 CONTRO % 1 PLOT 184 184 0 DA-B P 0 (Data Column 7)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	17	32335.714286			
Replicate	3	264.285714	88.095238	0.444	0.7278
Treatment	6	30485.714286	5080.952381	25.634	0.0001
Error	8	1585.714286	198.214286		

Randomized Complete Block (RCB) AOV For W Weed ALLVI Allium vineale Wild garlic PLOT P 6/5/2014 CONTRO % 1 PLOT 212 28 28 DA-B P 0 (Data Column 8)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	62337.500000			
Replicate	3	52.500000	17.500000	2.554	0.0763
Treatment	9	62100.000000	6900.000000	1007.027	0.0001
Error	27	185.000000	6.851852		

## Purdue University Weed Science

Randomized Complete Block (RCB) AOV For W Weed ERICA Conyza canadensis Canada horseweed PLOT P 6/5/2014 CONTRO % 1 PLOT 212 28 28 DA-B P 0 (Data Column 9)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	61200.000000			
Replicate	3	145.000000	48.333333	1.819	0.1675
Treatment	9	60337.500000	6704.166667	252.282	0.0001
Error	27	717.500000	26.574074		

Randomized Complete Block (RCB) AOV For W Weed SETFA Setaria faberi Giant foxtail PLOT P 6/5/2014 CONTRO % 1 PLOT 212 28 28 DA-B P 0 (Data Column 10)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	57124.375000			
Replicate	3	36.875000	12.291667	0.405	0.7506
Treatment	9	56268.125000	6252.013889	206.016	0.0001
Error	27	819.375000	30.347222		

Randomized Complete Block (RCB) AOV For W Weed AMBEL Ambrosia artemisiifolia Common ragweed PLOT P 6/5/2014 CONTRO % 1 PLOT 212 28 28 DA-B P 0 (Data Column 11)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	62010.000000			
Replicate	3	20.000000	6.666667	0.643	0.5941
Treatment	9	61710.000000	6856.666667	661.179	0.0001
Error	27	280.000000	10.370370		

Randomized Complete Block (RCB) AOV For W Weed ERICA Conyza canadensis Canada horseweed PLOT P 6/25/2014 CONTRO % 1 PLOT 232 48 48 DA-B P 0 (Data Column 12)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	59047.500000			
Replicate	3	442.500000	147.500000	1.959	0.1439
Treatment	9	56572.500000	6285.833333	83.502	0.0001
Error	27	2032.500000	75.277778		

Randomized Complete Block (RCB) AOV For W Weed SETFA Setaria faberi Giant foxtail PLOT P 6/25/2014 CONTRO % 1 PLOT 232 48 48 DA-B P 0 (Data Column 13)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	9977.500000			
Replicate	3	1367.500000	455.833333	5.452	0.0046
Treatment	9	6352.500000	705.833333	8.442	0.0001
Error	27	2257.500000	83.611111		

Randomized Complete Block (RCB) AOV For W Weed AMBEL Ambrosia artemisiifolia Common ragweed PLOT P 6/25/2014 CONTRO % 1 PLOT 232 48 48 DA-B P 0 (Data Column 14)

Source	DF	Sum of Squares	Mean Square	F	Prob(F)
Total	39	54790.000000			
Replicate	3	1635.000000	545.000000	2.835	0.0569
Treatment	9	47965.000000	5329.444444	27.725	0.0001
Error	27	5190.000000	192.222222		

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

Pest Code  
ALLVI, Allium vineale, = US  
SETFA, Setaria faberi, = US  
AMBEL, Ambrosia artemisiifolia, = US  
ERICA, Conyza canadensis, = US

Part Rated  
PLOT = plot  
P = Pest is Part Rated

Rating Type  
CONTRO = control / burndown or knockdown

Rating Unit  
% = percent

PLOT = total plot  
ARM Action Codes  
P = Rating scale of 0 to 100 (e.g. % control or injury)