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Fall applied herbicides prior to no-till soybean.

Trial ID: 06F-THP-NTS-06
Location: Throckmorton

Study Dir.: Vince Davis
Investigator: Dr. William G. Johnson

GENERAL TRIAL INFORMATION

Study Director: Vince Davis **Title:** Research Associate
Affiliation: Purdue University
Postal Code: 47907
Investigator: Dr. William G. Johnson **Title:** Associate Professor
Affiliation: Purdue University
Postal Code: 47907

TRIAL LOCATION

City: Lafayette
State/Prov.: IN
Postal Code: 47909-9049
Country: USA
Directions: Field 5

COOPERATOR/LANDOWNER

Cooperator: Throckmorton-Purdue Ag Center (TPAC) **Country:** USA
Org: Purdue University **Phone No:** (765) 538-3422
Address 1: 8343 US 231 South **Fax No:** (765) 538-3423
City: Lafayette
State/Prov: IN
Postal Code: 47909-9049

Conducted Under GLP (Y/N): N **Conducted Under GEP (Y/N):** N

Objective: The objective of this experiment is to determine the efficacy of fall applied no-till soybean herbicides for the control of winter annual weeds.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	THLSS	Pennycress	Thlaspi sp.
2.	STEME	Common chickweed	Stellaria media
3.	CAPBP	Shepherd's purse	Capsella bursa-pastoris
4.	LAMPU	Purple deadnettel	Lamium purpureum

Crop 1: GLXMA SOYBEAN **Variety:** AS3305
Planting Date: 4/May/2007 **Planting Method:** DIRECT DRILLED
Rate: 150000 S/A **Depth:** 1 IN
Soil Temperature: 60 F **Soil Moisture:** Wet **Emergence Date:** 14/May/2007

SITE AND DESIGN

Plot Width, Unit: 10 FT **Plot Length, Unit:** 30 FT **Reps:** 4
Site Type: FIELD
Tillage Type: NO-TILL **Study Design:** RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% OM: 3.3 **Texture:** Sandy Loam
pH: 5.6 **Soil Name:** Desker
CEC: 11.7

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit
K	117	ppm
P1	42	ppm
MG	240	ppm
CA	1150	ppm

Closest Weather Station: On research station

Distance: 0.5 **Unit:** MI

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APPLICATION DESCRIPTION

	A	B
Application Date:	8/Nov/2006	5/Jun/2007
Time of Day:	9:16 am	10:30 AM
Application Method:	SPRAY	Spray
Application Timing:	FALLBD	Blanket
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	54 F	67 F
% Relative Humidity:	99	90
Wind Velocity, Unit:	0 MPH	0 MPH
Dew Presence (Y/N):	Y	Y
Water Hardness:	Very Hard	Hard
Soil Temp., Unit:	46 F	66 F
Soil Moisture:	Moist	Wet
% Cloud Cover:	100	45

CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	GLXMA	GLXMA
Stage Scale:	N/A	V2-3
Height, Unit:		3.5 IN

WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	THLSS 1-5"	THLSS
Stage Scale:	Rosettes	
Density, Unit:	10 YD2	
Weed 2 Code, Stage:	STEME 1"	STEME
Density, Unit:	40 YD2	
Weed 3 Code, Stage:	CAPBP 1"	CAPBP
Density, Unit:	30 YD2	
Weed 4 Code, Stage:	LAMPU 1"	LAMPU
Density, Unit:	10 YD2	

APPLICATION EQUIPMENT

	A	B
Appl. Equipment:	BackPack	BackPack
Operating Pressure:	15 psi	17 psi
Nozzle Type:	XR	XR
Nozzle Size:	11002	11002
Nozzle Spacing, Unit:	15 IN	15 IN
Boom Length, Unit:	7.5 FT	10 FT
Boom Height, Unit:	15 IN	15 IN
Ground Speed, Unit:	3 MPH	3 MPH
Incorporation Equip.:	None	None
Hours to Incorp.:	0	0
Incorp. Depth, Unit:	0 IN	0 IN
Carrier:	H2O	H2O
Spray Volume, Unit:	15 GPA	15 GPA
Propellant:	CO2	CO2
Tank Mix (Y/N):	Y	Y

Trt No	Treatment Application Comment
A	95-98% Ground Cover / Treatment 8 not completely mixed up.

Trial Comments

5-1-07: Very heavy residue. Ground cover is over 100% foxtail and wheat.

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Weed Code								THAAR	STEME	THAAR	ERICA	GLXMA	
Crop Code								GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	
Rating Data Type								CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	
Rating Unit								%	%	%	%	%	
Rating Date								1/May/2007	1/May/2007	5/Jun/2007	5/Jun/2007	5/Jun/2007	
Weed Stage								3" roset	2-8"	3-12"	4-8"		
Weed Density, Unit								72 YD2	99 YD2	5 YD2	2 YD2		
Assessed By								WGJ + AW	WGJ + AW	KW	KW	KW	
Tri-Eval Interval								174 DA-A	174 DA-A	209 DA-A	209 DA-A	209 DA-A	
Tri No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5
1	non-treated check							101	0.0	0.0	0.0	0.0	0.0
								409	0.0	0.0	0.0	0.0	0.0
								501	0.0	0.0	0.0	0.0	0.0
								703	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
2	Roundup OriginalMAX	0.77	LB AE/A	22	FL OZ/A	FALL BD	A	102	25.0	90.0	0.0	100.0	0.0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD	A	404	85.0	75.0	95.0	100.0	0.0
	AMS	17	LB A/100 GAL	17	LB/100 GAL	FALL BD	A	603	100.0	95.0	100.0	100.0	0.0
								702	90.0	90.0	0.0	100.0	0.0
								Mean =	75.0	87.5	48.8	100.0	0.0
3	Canopy EX							103	100.0	100.0	100.0	100.0	0.0
	Classic	0.0313	LB A/A	2	OZ/A	FALL BD	A	303	100.0	100.0	100.0	100.0	0.0
	Express	0.0094	LB A/A	0.2	OZ/A	FALL BD	A	511	100.0	100.0	100.0	100.0	0.0
	Roundup OriginalMAX	0.77	LB AE/A	22	FL OZ/A	FALL BD	A	802	98.0	95.0	100.0	100.0	0.0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD	A						
	AMS	17	LB A/100 GAL	17	LB/100 GAL	FALL BD	A						
	NIS	0.25	% V/V	0.25	% V/V	FALL BD	A						
								Mean =	99.5	98.8	100.0	100.0	0.0
4	Scepter	0.123	LB A/A	2.8	OZ/A	FALL BD	A	104	20.0	75.0	10.0	100.0	0.0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD	A	310	98.0	95.0	85.0	100.0	0.0
	Roundup OriginalMAX	0.77	LB AE/A	22	FL OZ/A	FALL BD	A	509	100.0	98.0	100.0	50.0	0.0
	AMS	17	LB A/100 GAL	17	LB/100 GAL	FALL BD	A	706	100.0	95.0	90.0	70.0	0.0
	NIS	0.25	% V/V	0.25	% V/V	FALL BD	A						
								Mean =	79.5	90.8	71.3	80.0	0.0
5	Scepter	0.123	LB A/A	2.8	OZ/A	FALL BD	A	105	5.0	60.0	0.0	100.0	0.0
	Weedmaster	0.97	LB A/A	1	QT/A	FALL BD	A	412	95.0	95.0	93.0	100.0	0.0
	AMS	17	LB A/100 GAL	17	LB/100 GAL	FALL BD	A	602	98.0	98.0	100.0	100.0	0.0
	NIS	0.25	% V/V	0.25	% V/V	FALL BD	A	708	93.0	98.0	30.0	100.0	0.0
								Mean =	72.8	87.8	55.8	100.0	0.0
6	Extreme	0.81	LB A/A	3	PT/A	FALL BD	A	106	50.0	80.0	0.0	100.0	0.0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD	A	408	90.0	70.0	95.0	0.0	0.0
	AMS	17	LB A/100 GAL	17	LB/100 GAL	FALL BD	A	512	90.0	95.0	80.0	100.0	0.0
	NIS	0.25	% V/V	0.25	% V/V	FALL BD	A	811	25.0	75.0	0.0	85.0	0.0
								Mean =	63.8	80.0	43.8	71.3	0.0
7	Aim EW	0.0148	LB A/A	1	FL OZ/A	FALL BD	A	107	40.0	90.0	0.0	100.0	0.0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD	A	307	93.0	98.0	45.0	100.0	0.0
	Spartan 4F	0.125	LB A/A	4	FL OZ/A	FALL BD	A	601	100.0	98.0	100.0	100.0	0.0
	Sencor 75DF	0.187	LB A/A	0.25	LB/A	FALL BD	A	804	20.0	75.0	0.0	100.0	0.0
	Crop Oil Conc	1.25	% V/V	0.75	QT/A	FALL BD	A						
								Mean =	63.3	90.3	36.3	100.0	0.0
8	Autumn	0.00188	LB A/A	0.3	OZ/A	FALL BD	A	108	30.0	90.0	0.0	100.0	0.0
	Sencor 75DF	0.47	LB A/A	10	OZ/A	FALL BD	A	407	15.0	85.0	0.0	80.0	0.0
	Crop Oil Conc	1	% V/V	0.6	QT/A	FALL BD	A	608	93.0	90.0	97.0	20.0	0.0
	28% UAN	1.88	% V/V	1.13	QT/A	FALL BD	A	803	30.0	50.0	0.0	20.0	0.0
								Mean =	42.0	78.8	24.3	55.0	0.0

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Weed Code Crop Code Rating Data Type Rating Unit Rating Date Weed Stage Weed Density, Unit Assessed By Trt-Eval Interval								THAAR GLXMA CONTRO %	STEME GLXMA CONTRO %	THAAR GLXMA CONTRO %	ERICA GLXMA CONTRO %	GLXMA PHYGEN %	
								1/May/2007 3" roset 72 YD2 WGJ + AW 174 DA-A	1/May/2007 2-8" 99 YD2 WGJ + AW 174 DA-A	5/Jun/2007 3-12" 5 YD2 KW 209 DA-A	5/Jun/2007 4-8" 2 YD2 KW 209 DA-A	5/Jun/2007 KW 209 DA-A	
Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5
9	Autumn	0.00188	LB A/A	0.3	OZ/A	FALL BD	A	109	50.0	95.0	0.0	100.0	0.0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD	A	411	95.0	85.0	95.0	80.0	0.0
	Crop Oil Conc	1	% V/V	0.6	QT/A	FALL BD	A	607	95.0	88.0	100.0	50.0	0.0
	28% UAN	1.88	% V/V	1.13	QT/A	FALL BD	A	712	75.0	85.0	50.0	25.0	0.0
								Mean =	78.8	88.3	61.3	63.8	0.0
10	Autumn	0.00188	LB A/A	0.3	OZ/A	FALL BD	A	110	70.0	95.0	0.0	100.0	0.0
	Roundup WeatherMAX	0.42	LB AE/A	12	FL OZ/A	FALL BD	A	302	95.0	95.0	80.0	99.0	0.0
	AMS	17	LB A/100 GAL	17	LB/100 GAL	FALL BD	A	606	95.0	95.0	100.0	50.0	0.0
								705	95.0	95.0	100.0	100.0	0.0
								Mean =	88.8	95.0	70.0	87.3	0.0
11	KIH-485	84.6	G A/A	0.22	LB/A	FALL BD	A	111	70.0	90.0	0.0	100.0	0.0
	Roundup WeatherMAX	0.42	LB AE/A	12	FL OZ/A	FALL BD	A	403	90.0	90.0	45.0	100.0	0.0
	AMS	17	LB A/100 GAL	17	LB/100 GAL	FALL BD	A	507	100.0	97.0	80.0	87.0	0.0
								809	80.0	65.0	0.0	100.0	0.0
								Mean =	85.0	85.5	31.3	96.8	0.0
12	KIH-485	101.2	G A/A	0.262	LB/A	FALL BD	A	112	60.0	95.0	0.0	100.0	0.0
	Roundup WeatherMAX	0.42	LB AE/A	12	FL OZ/A	FALL BD	A	306	88.0	95.0	45.0	100.0	0.0
	AMS	17	LB A/100 GAL	17	LB/100 GAL	FALL BD	A	610	93.0	95.0	50.0	90.0	0.0
								711	85.0	98.0	50.0	20.0	0.0
								Mean =	81.5	95.8	36.3	77.5	0.0
13	Classic	0.0234	LB A/A	1.5	OZ/A	FALL BD	A	201	100.0	98.0	100.0	100.0	0.0
	Reflex	0.25	LB A/A	1	PT/A	FALL BD	A	405	100.0	90.0	100.0	50.0	0.0
	Crop Oil Conc	1	% V/V	1	% V/V	FALL BD	A	502	100.0	95.0	100.0	50.0	0.0
								701	100.0	93.0	100.0	100.0	0.0
								Mean =	100.0	94.0	100.0	75.0	0.0
14	Classic	0.0234	LB A/A	1.5	OZ/A	FALL BD	A	202	100.0	98.0	100.0	100.0	0.0
	Reflex	0.25	LB A/A	1	PT/A	FALL BD	A	401	100.0	98.0	100.0	50.0	0.0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD	A	605	100.0	98.0	100.0	100.0	0.0
	Crop Oil Conc	1	% V/V	1	% V/V	FALL BD	A	810	100.0	98.0	100.0	100.0	0.0
								Mean =	100.0	98.0	100.0	87.5	0.0
15	Classic	0.0234	LB A/A	1.5	OZ/A	FALL BD	A	203	100.0	95.0	100.0	100.0	0.0
	Banvel	0.5	LB A/A	1	PT/A	FALL BD	A	410	100.0	100.0	100.0	100.0	0.0
	Crop Oil Conc	1	% V/V	1	% V/V	FALL BD	A	505	100.0	100.0	100.0	100.0	0.0
								806	98.0	98.0	100.0	100.0	0.0
								Mean =	99.5	98.3	100.0	100.0	0.0
16	Classic	0.0234	LB A/A	1.5	OZ/A	FALL BD	A	204	100.0	100.0	100.0	100.0	0.0
	Banvel	0.5	LB A/A	1	PT/A	FALL BD	A	312	100.0	95.0	100.0	100.0	0.0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD	A	611	100.0	100.0	95.0	100.0	0.0
	Crop Oil Conc	1	% V/V	1	% V/V	FALL BD	A	807	100.0	95.0	100.0	80.0	0.0
								Mean =	100.0	97.5	98.8	95.0	0.0
17	Northstar	0.16	LB A/A	5	OZ/A	FALL BD	A	205	100.0	95.0	95.0	100.0	0.0
	Crop Oil Conc	1	% V/V	1	% V/V	FALL BD	A	304	95.0	85.0	100.0	99.0	0.0
								508	100.0	98.0	100.0	100.0	0.0
								808	85.0	70.0	100.0	100.0	0.0
								Mean =	95.0	87.0	98.8	99.8	0.0
18	Canopy EX							206	100.0	98.0	100.0	100.0	0.0
	Classic	0.5	OZ A/A	2	OZ/A	FALL BD	A	311	100.0	93.0	100.0	100.0	0.0
	Express	0.15	OZ A/A	0.2	OZ/A	FALL BD	A	510	100.0	99.0	100.0	100.0	0.0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD	A	704	100.0	100.0	100.0	100.0	0.0
	Crop Oil Conc	1	% V/V	1	% V/V	FALL BD	A						
								Mean =	100.0	97.5	100.0	100.0	0.0

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Weed Code								THAAR	STEME	THAAR	ERICA	GLXMA	
Crop Code								GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	
Rating Data Type								CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	
Rating Unit								%	%	%	%	%	
Rating Date								1/May/2007	1/May/2007	5/Jun/2007	5/Jun/2007	5/Jun/2007	
Weed Stage								3" roset	2-8"	3-12"	4-8"		
Weed Density, Unit								72 YD2	99 YD2	5 YD2	2 YD2		
Assessed By								WGJ + AW	WGJ + AW	KW	KW	KW	
Trt-Eval Interval								174 DA-A	174 DA-A	209 DA-A	209 DA-A	209 DA-A	
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5
19	Canopy EX							207	100.0	95.0	100.0	100.0	0.0
	Classic	0.25	OZ A/A	1	OZ/A	FALL BD	A	308	100.0	100.0	100.0	100.0	0.0
	Express	0.075	OZ A/A	0.1	OZ/A	FALL BD	A	504	100.0	100.0	100.0	80.0	0.0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD	A	812	100.0	100.0	100.0	100.0	0.0
	Crop Oil Conc	1	% V/V	1	% V/V	FALL BD	A						
								Mean =	100.0	98.8	100.0	95.0	0.0
20	Autumn	0.03	OZ A/A	0.3	OZ/A	FALL BD	A	208	55.0	85.0	0.0	100.0	0.0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD	A	309	95.0	90.0	45.0	100.0	0.0
	Crop Oil Conc	1	% V/V	1	% V/V	FALL BD	A	612	90.0	95.0	100.0	50.0	0.0
								805	20.0	40.0	20.0	50.0	0.0
								Mean =	65.0	77.5	41.3	75.0	0.0
21	Roundup WeatherMAX	0.53	LB AE/A	15.13	FL OZ/A	FALL BD	A	209	25.0	45.0	0.0	100.0	0.0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD	A	406	80.0	85.0	90.0	100.0	0.0
	AMS	17	LB A/100 GAL	17	LB/100 GAL	FALL BD	A	609	90.0	90.0	80.0	50.0	0.0
								801	85.0	90.0	45.0	25.0	0.0
								Mean =	70.0	77.5	53.8	68.8	0.0
22	non-treated check							210	0.0	0.0	0.0	0.0	0.0
								301	0.0	0.0	0.0	0.0	0.0
								506	0.0	0.0	0.0	0.0	0.0
								709	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
23	non-treated check							211	0.0	0.0	0.0	0.0	0.0
								402	0.0	0.0	0.0	0.0	0.0
								604	0.0	0.0	0.0	0.0	0.0
								710	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0
24	non-treated check							212	0.0	0.0	0.0	0.0	0.0
								305	0.0	0.0	0.0	0.0	0.0
								503	0.0	0.0	0.0	0.0	0.0
								707	0.0	0.0	0.0	0.0	0.0
								Mean =	0.0	0.0	0.0	0.0	0.0

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Crop Code							GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	
Rating Data Type							CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	
Rating Unit							%	%	%	%	%	
Rating Date							1/May/2007	1/May/2007	5/Jun/2007	5/Jun/2007	5/Jun/2007	
Weed Stage							3" roset	2-8"	3-12"	4-8"		
Weed Density, Unit							72 YD2	99 YD2	5 YD2	2 YD2		
Assessed By							WGJ + AW	WGJ + AW	KW	KW	KW	
Tri-Eval Interval							174 DA-A	174 DA-A	209 DA-A	209 DA-A	209 DA-A	
Tri No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4	5
1	non-treated check							0.0 f	0.0 d	0.0 e	0.0 e	0.0 a
2	Roundup OriginalMAX	0.77	LB AE/A	22	FL OZ/A	FALL BD A	A	75.0 a-d	87.5 abc	48.8 bcd	100.0 a	0.0 a
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD A	A					
	AMS	17	LB A/100 GAL	17	LB/100 GAL	FALL BD A	A					
3	Canopy EX							99.5 ab	98.8 a	100.0 a	100.0 a	0.0 a
	Classic	0.0313	LB A/A	2	OZ/A	FALL BD A	A					
	Express	0.0094	LB A/A	0.2	OZ/A	FALL BD A	A					
	Roundup OriginalMAX	0.77	LB AE/A	22	FL OZ/A	FALL BD A	A					
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD A	A					
AMS		17	LB A/100 GAL	17	LB/100 GAL	FALL BD A	A					
	NIS	0.25	% V/V	0.25	% V/V	FALL BD A	A					
4	Scepter	0.123	LB A/A	2.8	OZ/A	FALL BD A	A	79.5 a-d	90.8 abc	71.3 ab	80.0 a-d	0.0 a
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD A	A					
	Roundup OriginalMAX	0.77	LB AE/A	22	FL OZ/A	FALL BD A	A					
	AMS	17	LB A/100 GAL	17	LB/100 GAL	FALL BD A	A					
	NIS	0.25	% V/V	0.25	% V/V	FALL BD A	A					
5	Scepter	0.123	LB A/A	2.8	OZ/A	FALL BD A	A	72.8 bcd	87.8 abc	55.8 bcd	100.0 a	0.0 a
	Weedmaster	0.97	LB A/A	1	QT/A	FALL BD A	A					
	AMS	17	LB A/100 GAL	17	LB/100 GAL	FALL BD A	A					
	NIS	0.25	% V/V	0.25	% V/V	FALL BD A	A					
6	Extreme	0.81	LB A/A	3	PT/A	FALL BD A	A	63.8 de	80.0 bc	43.8 bcd	71.3 a-d	0.0 a
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD A	A					
	AMS	17	LB A/100 GAL	17	LB/100 GAL	FALL BD A	A					
	NIS	0.25	% V/V	0.25	% V/V	FALL BD A	A					
7	Aim EW	0.0148	LB A/A	1	FL OZ/A	FALL BD A	A	63.3 de	90.3 abc	36.3 b-e	100.0 a	0.0 a
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD A	A					
	Spartan 4F	0.125	LB A/A	4	FL OZ/A	FALL BD A	A					
	Sencor 75DF	0.187	LB A/A	0.25	LB/A	FALL BD A	A					
	Crop Oil Conc	1.25	% V/V	0.75	QT/A	FALL BD A	A					
8	Autumn	0.00188	LB A/A	0.3	OZ/A	FALL BD A	A	42.0 e	78.8 c	24.3 de	55.0 d	0.0 a
	Sencor 75DF	0.47	LB A/A	10	OZ/A	FALL BD A	A					
	Crop Oil Conc	1	% V/V	0.6	QT/A	FALL BD A	A					
	28% UAN	1.88	% V/V	1.13	QT/A	FALL BD A	A					
9	Autumn	0.00188	LB A/A	0.3	OZ/A	FALL BD A	A	78.8 a-d	88.3 abc	61.3 bc	63.8 cd	0.0 a
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD A	A					
	Crop Oil Conc	1	% V/V	0.6	QT/A	FALL BD A	A					
	28% UAN	1.88	% V/V	1.13	QT/A	FALL BD A	A					
10	Autumn	0.00188	LB A/A	0.3	OZ/A	FALL BD A	A	88.8 a-d	95.0 a	70.0 ab	87.3 abc	0.0 a
	Roundup WeatherMAX	0.42	LB AE/A	12	FL OZ/A	FALL BD A	A					
	AMS	17	LB A/100 GAL	17	LB/100 GAL	FALL BD A	A					
11	KIH-485	84.6	G A/A	0.22	LB/A	FALL BD A	A	85.0 a-d	85.5 abc	31.3 cde	96.8 ab	0.0 a
	Roundup WeatherMAX	0.42	LB AE/A	12	FL OZ/A	FALL BD A	A					
	AMS	17	LB A/100 GAL	17	LB/100 GAL	FALL BD A	A					
12	KIH-485	101.2	G A/A	0.262	LB/A	FALL BD A	A	81.5 a-d	95.8 a	36.3 b-e	77.5 a-d	0.0 a
	Roundup WeatherMAX	0.42	LB AE/A	12	FL OZ/A	FALL BD A	A					
	AMS	17	LB A/100 GAL	17	LB/100 GAL	FALL BD A	A					

Purdue University

Weed Code							THAAR	STEME	THAAR	ERICA	GLXMA	
Crop Code							GLXMA	GLXMA	GLXMA	GLXMA	GLXMA	
Rating Data Type							CONTRO	CONTRO	CONTRO	CONTRO	PHYGEN	
Rating Unit							%	%	%	%	%	
Rating Date							1/May/2007	1/May/2007	5/Jun/2007	5/Jun/2007	5/Jun/2007	
Weed Stage							3" roset	2-8"	3-12"	4-8"		
Weed Density, Unit							72 YD2	99 YD2	5 YD2	2 YD2		
Assessed By							WGJ + AW	WGJ + AW	KW	KW	KW	
Trt-Eval Interval							174 DA-A	174 DA-A	209 DA-A	209 DA-A	209 DA-A	
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4	5
13	Classic	0.0234	LB A/A	1.5	OZ/A	FALL BD	A	100.0 a	94.0 ab	100.0 a	75.0 a-d	0.0 a
	Reflex	0.25	LB A/A	1	PT/A	FALL BD	A					
	Crop Oil Conc	1	% V/V	1	% V/V	FALL BD	A					
14	Classic	0.0234	LB A/A	1.5	OZ/A	FALL BD	A	100.0 a	98.0 a	100.0 a	87.5 abc	0.0 a
	Reflex	0.25	LB A/A	1	PT/A	FALL BD	A					
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD	A					
	Crop Oil Conc	1	% V/V	1	% V/V	FALL BD	A					
15	Classic	0.0234	LB A/A	1.5	OZ/A	FALL BD	A	99.5 ab	98.3 a	100.0 a	100.0 a	0.0 a
	Banvel	0.5	LB A/A	1	PT/A	FALL BD	A					
	Crop Oil Conc	1	% V/V	1	% V/V	FALL BD	A					
16	Classic	0.0234	LB A/A	1.5	OZ/A	FALL BD	A	100.0 a	97.5 a	98.8 a	95.0 ab	0.0 a
	Banvel	0.5	LB A/A	1	PT/A	FALL BD	A					
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD	A					
	Crop Oil Conc	1	% V/V	1	% V/V	FALL BD	A					
17	Northstar	0.16	LB A/A	5	OZ/A	FALL BD	A	95.0 abc	87.0 abc	98.8 a	99.8 a	0.0 a
	Crop Oil Conc	1	% V/V	1	% V/V	FALL BD	A					
18	Canopy EX							100.0 a	97.5 a	100.0 a	100.0 a	0.0 a
	Classic	0.5	OZ A/A	2	OZ/A	FALL BD	A					
	Express	0.15	OZ A/A	0.2	OZ/A	FALL BD	A					
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD	A					
	Crop Oil Conc	1	% V/V	1	% V/V	FALL BD	A					
19	Canopy EX							100.0 a	98.8 a	100.0 a	95.0 ab	0.0 a
	Classic	0.25	OZ A/A	1	OZ/A	FALL BD	A					
	Express	0.075	OZ A/A	0.1	OZ/A	FALL BD	A					
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD	A					
	Crop Oil Conc	1	% V/V	1	% V/V	FALL BD	A					
20	Autumn	0.03	OZ A/A	0.3	OZ/A	FALL BD	A	65.0 de	77.5 c	41.3 bcd	75.0 a-d	0.0 a
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD	A					
	Crop Oil Conc	1	% V/V	1	% V/V	FALL BD	A					
21	Roundup WeatherMAX	0.53	LB AE/A	15.13	FL OZ/A	FALL BD	A	70.0 cd	77.5 c	53.8 bcd	68.8 bcd	0.0 a
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALL BD	A					
	AMS	17	LB A/100 GAL	17	LB/100 GAL	FALL BD	A					
22	non-treated check							0.0 f	0.0 d	0.0 e	0.0 e	0.0 a
23	non-treated check							0.0 f	0.0 d	0.0 e	0.0 e	0.0 a
24	non-treated check							0.0 f	0.0 d	0.0 e	0.0 e	0.0 a
LSD (P=.05)							27.00	14.23	36.30	29.58	0.00	
Standard Deviation							19.10	10.06	25.67	20.92	0.00	
CV							27.62	13.38	44.93	29.06	0.0	
Grand Mean							69.14	75.18	57.14	71.98	0.0	
Bartlett's X2							47.752	57.223	28.8	37.314	0.0	
P(Bartlett's X2)							0.001*	0.001*	0.007*	0.001*	.	
Replicate F							9.162	3.520	14.219	3.844	0.000	
Replicate Prob(F)							0.0001	0.0195	0.0001	0.0132	1.0000	
Treatment F							13.474	48.423	8.199	11.461	0.000	
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001	1.0000	

Means followed by same letter do not significantly differ (P=.05, LSD)