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Fall applied no-till soybean herbicide evaluation at ACRE

Trial ID: 05F-ACR-NTS-07
Location: ACRE

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: West Lafayette
State/Prov.: IN
Postal Code: 47906
Country: USA
Unit: feet
Directions: Agronomy Center for Research and Education (ACRE) - Field 102

COOPERATOR/LANDOWNER

Cooperator: Agronomy Center for Res. & Educ. **Country:** USA
Org: Purdue University **Phone No:** 765-463-2632
Address 1: 4540 U.S. 52 West
City: West Lafayette
State/Prov: IN
Postal Code: 47906

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

Objective: The objective of this study is to evaluate the efficacy of fall applied herbicides for the control of winter annual and early emerging summer annual weed species prior to no-tillage soybean.

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	TAROF	Dandelion	Taraxacum officinale
2.	RANAB	Buttercup, smallflower	Ranaunculus abortivus
3.	ERICA	Horseweed	Erigeron canadensis
4.	SENGL	Cressleaf groundsel	Senecio glabellus

Crop 1: GLXMA SOYBEAN **Variety:** Asgrow 3005
Planting Date: 27/Apr/2006 **Planting Method:** DIRECT DRILLED
Rate: 180000 S/A **Depth:** 1 IN
Row Spacing: 30 IN **Emergence Date:** 8/May/2006

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

	Previous Crops	Previous Pesticides	Year
1.	Fallow	None	Fallow 2005

MAINTENANCE

Field Prep./Maintenance: None.

SOIL DESCRIPTION

% OM: 3 **Texture:** FINE SILTY LOAM
pH: 6.3 **Soil Name:** Raub / mixed, mesic, Aquic Argiudoll
CEC: 19 **Fert. Level:** GOOD

ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit
Phosphorus	44	LBS/ACRE
Potassium	193	LBS/ACRE
Calcium	4343	LBS/ACRE
Magnesium	1079	LBS/ACRE

Closest Weather Station: ON SITE

Distance: 1 **Unit:** MI

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APPLICATION DESCRIPTION

	A
Application Date:	31/Oct/2005
Time of Day:	10:15 am
Application Method:	SPRAY
Application Timing:	Fall
Applic. Placement:	BROFOL
Air Temp., Unit:	62 F
% Relative Humidity:	65
Wind Velocity, Unit:	7.5 MPH
Dew Presence (Y/N):	N
Water Hardness:	Very Hard
Soil Temp., Unit:	50 F
Soil Moisture:	Moist
% Cloud Cover:	60

CROP STAGE AT EACH APPLICATION

	A
Crop 1 Code, Stage:	GLXMA
Stage Scale:	NA

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	TAROF 4-16"
Stage Scale:	Rosette
Density, Unit:	4 YD2
Weed 2 Code, Stage:	RANAB 1-2"
Stage Scale:	2-3 leaf
Density, Unit:	60 YD2
Weed 3 Code, Stage:	ERICA 1"
Stage Scale:	rosette
Density, Unit:	100 YD2
Weed 4 Code, Stage:	SENGL 2-3"
Stage Scale:	rosette
Density, Unit:	2 YD2

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BackPack
Operating Pressure:	27 psi
Nozzle Type:	XR
Nozzle Size:	11002
Nozzle Spacing, Unit:	20 IN
Boom Length, Unit:	10 FT
Boom Height, Unit:	20 IN
Ground Speed, Unit:	3 MPH
Incorporation Equip.:	None
Hours to Incorp.:	0
Incorp. Depth, Unit:	0 IN
Carrier:	H2O
Spray Volume, Unit:	15 GPA
Propellant:	CO2

Trial Comments

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Location: ACRE

Study Dir.: Vince Davis
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									TAROF	SENGL	ERICA	TAROF	SENGL	ERICA
									EFF	EFF	EFF	EFF	EFF	EFF
									%	%	%	%	%	%
									29/Mar/2006	29/Mar/2006	29/Mar/2006	28/Apr/2006	28/Apr/2006	28/Apr/2006
									6-8"	2-4"	1-2"rose	12-18"	6-24"	2-5"
									5 YD2	20 YD2	100 YD2	5 YD2	10 YD2	30 YD2
									AW and EC	AW and EC	AW and EC	WJ + EC	WJ + EC	WJ + EC
									149 DA-A	149 DA-A	149 DA-A	179 DA-A	179 DA-A	179 DA-A
Tri	Treatment	Rate	Rate	Product	Product	Grow	Appl	Plot	1	2	3	4	5	6
No.	Name		Unit	Rate	Rate Unit	Stg	Code							
1	Non-treated check							101	0	0	0	0	0	0
								409	0	0	0	0	0	0
								802	0	0	0	0	0	0
								1010	0	0	0	0	0	0
								Mean =	0	0	0	0	0	0
2	Pursuit	0.0625	LB A/A	4	FL OZ/A	FALLBD	A	102	98	100	100	88	100	100
	Authority	0.2	LB A/A	4.27	OZ/A	FALLBD	A	408	100	100	100	98	100	100
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	602	100	100	100	90	100	100
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A	1011	100	100	100	90	100	100
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A							
								Mean =	100	100	100	92	100	100
3	Pursuit	0.047	LB A/A	3	FL OZ/A	FALLBD	A	103	100	100	100	85	100	100
	Authority	0.15	LB A/A	3.2	OZ/A	FALLBD	A	405	100	100	100	100	100	100
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	611	100	100	100	100	100	100
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A	905	100	100	100	95	100	100
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A							
								Mean =	100	100	100	95	100	100
4	Scepter	0.122	LB A/A	2.8	OZ/A	FALLBD	A	104	100	100	100	95	100	100
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	506	100	100	100	100	100	100
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A	603	100	100	100	100	100	100
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A	906	100	100	100	95	100	100
								Mean =	100	100	100	98	100	100
5	Scepter	0.122	LB A/A	2.8	OZ/A	FALLBD	A	105	100	100	100	98	100	98
	Prowl H2O	1.43	LB A/A	3	PT/A	FALLBD	A	407	100	100	100	95	100	100
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	707	100	100	100	97	100	100
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A	1005	98	100	100	60	100	100
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A							
								Mean =	100	100	100	88	100	100
6	Scepter	0.122	LB A/A	2.8	OZ/A	FALLBD	A	106	100	100	100	100	99	100
	Weedmaster	0.97	LB A/A	2	PT/A	FALLBD	A	412	100	100	100	100	100	100
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A	803	100	100	100	100	100	100
	NIS	0.25	% V/V	0.25	% V/V	FALLBD	A	901	100	100	100	100	100	100
								Mean =	100	100	100	100	100	100
7	Extreme	0.814	LB A/A	3	PTS/A	FALLBD	A	107	100	100	100	95	100	100
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	308	100	100	100	100	100	100
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A	612	100	100	100	100	100	99
	NIS	0.125	% V/V	0.125	% V/V	FALLBD	A	908	100	100	100	75	100	100
								Mean =	100	100	100	93	100	100
8	Canopy EX			2.2	OZ/A	FALLBD	A	108	100	100	100	100	100	100
	Classic	0.5	OZ A/A	2	OZ/A	FALLBD	A	410	100	100	100	97	100	100
	Express	0.15	OZ A/A	0.2	OZ/A	FALLBD	A	607	100	100	100	100	100	100
	2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD	A	907	100	100	100	100	100	95
	COC	1	% V/V	1	% V/V	FALLBD	A							
								Mean =	100	100	100	99	100	99

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Weed Code									TAROF	SENGL	ERICA	TAROF	SENGL	ERICA	
Crop Code															
Part Rated															
Rating Data Type									EFF	EFF	EFF	EFF	EFF	EFF	
Rating Unit									%	%	%	%	%	%	
Rating Date									29/Mar/2006	29/Mar/2006	29/Mar/2006	28/Apr/2006	28/Apr/2006	28/Apr/2006	
Crop Stage															
Weed Stage									6-8"	2-4"	1-2"rose	12-18"	6-24"	2-5"	
Weed Density, Unit									5 YD2	20 YD2	100 YD2	5 YD2	10 YD2	30 YD2	
Assessed By									AW and EC	AW and EC	AW and EC	WJ + EC	WJ + EC	WJ + EC	
Trt-Eval Interval									149 DA-A	149 DA-A	149 DA-A	179 DA-A	179 DA-A	179 DA-A	
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5	6	
9	Canopy EX			1.65	OZ/A	FALLBD	A	109	100	100	100	98	100	100	
	Classic	0.375	OZ A/A	1.5	OZ/A	FALLBD	A	511	100	100	100	100	100	100	
	Express	0.113	OZ A/A	0.15	OZ/A	FALLBD	A	609	100	100	100	100	100	100	
	2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD	A	812	98	100	100	95	100	100	
	COC	1	% V/V	1	% V/V	FALLBD	A								
	Mean =									100	100	100	98	100	100
10	Canopy EX			1.1	OZ/A	FALLBD	A	110	100	100	100	100	100	100	
	Classic	0.25	OZ A/A	1	OZ/A	FALLBD	A	512	100	100	100	100	100	100	
	Express	0.075	OZ A/A	0.1	OZ/A	FALLBD	A	604	100	100	100	100	100	100	
	2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD	A	810	100	100	100	100	100	100	
	COC	1	% V/V	1	% V/V	FALLBD	A								
	Mean =									100	100	100	100	100	100
11	Valor	1	OZ A/A	1.96	OZ/A	FALLBD	A	111	100	100	100	98	100	100	
	2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD	A	505	100	100	100	99	100	100	
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A	804	100	100	100	85	100	100	
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A	1007	99	100	100	70	100	100	
	Mean =									100	100	100	88	100	100
	12	Autumn	0.00187	LB A/A	0.3	OZ/A	FALLBD	A	112	100	100	98	100	100	50
COC		1	% V/V	1	% V/V	FALLBD	A	311	100	100	100	100	100	60	
UAN 28%		2.5	% V/V	1.5	QT/A	FALLBD	A	712	100	100	93	100	100	35	
Mean =									100	100	97	98	100	48	
13		Autumn	0.00375	LB A/A	0.6	OZ/A	FALLBD	A	201	100	100	90	75	100	40
		COC	1	% V/V	1	% V/V	FALLBD	A	508	100	100	93	100	100	70
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A	705	100	100	30	100	100	25	
	Mean =									100	100	77	94	100	46
	14	Autumn	0.00187	LB A/A	0.3	OZ/A	FALLBD	A	202	100	100	100	100	100	100
		Sencor 75DF	0.47	LB A/A	10	OZ/A	FALLBD	A	404	100	100	100	85	100	100
COC		1	% V/V	1	% V/V	FALLBD	A	605	100	100	100	90	100	100	
UAN 28%		2.5	% V/V	1.5	QT/A	FALLBD	A	909	90	100	100	75	100	100	
Mean =									98	100	100	88	100	100	
15		Autumn	0.00187	LB A/A	0.3	OZ/A	FALLBD	A	203	100	100	100	100	100	100
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	411	100	100	100	100	100	99	
	COC	1	% V/V	1	% V/V	FALLBD	A	601	100	100	100	90	95	100	
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A	1006	98	100	100	75	100	90	
	Mean =									100	100	100	91	99	97
	16	Autumn	0.00187	LB A/A	0.3	OZ/A	FALLBD	A	204	100	100	100	100	100	98
Roundup WeatherMAX		0.56	LB AE/A	1	PT/A	FALLBD	A	401	100	100	99	100	98	95	
AMS		2.5	LB A/A	2.5	LB/A	FALLBD	A	711	100	100	100	100	100	99	
Mean =									100	100	100	100	100	97	
17		Roundup WeatherMAX	0.56	LB AE/A	1	PT/A	FALLBD	A	205	100	100	100	100	100	100
		2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD	A	406	100	100	100	100	100	100
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A	806	100	100	100	95	100	100	
	Mean =									100	100	100	85	100	95
	Mean =									100	100	100	95	100	99

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Weed Code									TAROF	SENGL	ERICA	TAROF	SENGL	ERICA
Crop Code														
Part Rated														
Rating Data Type									EFF	EFF	EFF	EFF	EFF	EFF
Rating Unit									%	%	%	%	%	%
Rating Date									29/Mar/2006	29/Mar/2006	29/Mar/2006	28/Apr/2006	28/Apr/2006	28/Apr/2006
Crop Stage														
Weed Stage									6-8"	2-4"	1-2"rose	12-18"	6-24"	2-5"
Weed Density, Unit									5 YD2	20 YD2	100 YD2	5 YD2	10 YD2	30 YD2
Assessed By									AW and EC	AW and EC	AW and EC	WJ + EC	WJ + EC	WJ + EC
Trt-Eval Interval									149 DA-A	149 DA-A	149 DA-A	179 DA-A	179 DA-A	179 DA-A
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5	6
18	Autumn Authority	0.00187	LB A/A	0.3	OZ/A	FALLBD	A	206	100	100	96	100	100	85
	COC	1	% V/V	1	% V/V	FALLBD	A	710	100	100	100	100	100	85
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A	809	100	100	100	93	100	85
	Mean =								100	100	99	96	100	86
19	Canopy XL Classic	0.0234	LB A/A	4	OZ/A	FALLBD	A	207	100	100	100	100	100	100
	Authority	0.117	LB A/A	2.5	OZ/A	FALLBD	A	801	100	100	100	95	100	100
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	1008	100	100	100	70	100	90
	COC	1	% V/V	1	% V/V	FALLBD	A							
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A							
	Mean =								100	100	100	91	100	97
20	Canopy EX Classic	0.4	OZ A/A	1.75	OZ/A	FALLBD	A	208	100	100	100	100	100	100
	Express	0.12	OZ A/A	0.16	OZ/A	FALLBD	A	704	100	100	100	100	100	88
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	904	100	100	100	100	100	100
	COC	1	% V/V	1	% V/V	FALLBD	A							
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A							
	Mean =								100	100	100	100	100	97
21	Spartan 4F Classic	0.125	LB A/A	4	FL OZ/A	FALLBD	A	209	100	100	100	100	100	100
	2,4-D Ester	0.0156	LB A/A	1	OZ/A	FALLBD	A	312	100	100	100	100	100	99
	COC	0.5	LB A/A	1	PT/A	FALLBD	A	706	100	100	100	95	100	98
		1.67	% V/V	1	QT/A	FALLBD	A	903	100	100	100	60	100	85
	Mean =								100	100	100	89	100	96
22	Spartan 4F Classic	0.125	LB A/A	4	FL OZ/A	FALLBD	A	210	100	100	100	100	100	100
	2,4-D Ester	0.0078	LB A/A	0.5	OZ/A	FALLBD	A	510	100	100	100	95	100	100
	COC	0.5	LB A/A	1	PT/A	FALLBD	A	608	98	100	100	80	100	100
		1.67	% V/V	1	QT/A	FALLBD	A	808	100	100	100	90	100	98
	Mean =								100	100	100	91	100	100
23	Spartan 4F Sencor 75DF	0.125	LB A/A	4	FL OZ/A	FALLBD	A	211	100	100	100	95	100	100
	2,4-D Ester	0.187	LB A/A	4	OZ/A	FALLBD	A	509	100	100	100	90	100	100
	COC	0.5	LB A/A	1	PT/A	FALLBD	A	805	95	100	100	25	100	100
		1.67	% V/V	1	QT/A	FALLBD	A	911	95	100	100	85	100	100
	Mean =								98	100	100	74	100	100
24	Spartan 4F Sencor 75DF	0.125	LB A/A	4	FL OZ/A	FALLBD	A	212	100	100	100	95	100	100
	2,4-D Ester	0.094	LB A/A	2	OZ/A	FALLBD	A	507	100	100	100	90	100	100
	COC	0.5	LB A/A	1	PT/A	FALLBD	A	703	100	100	100	70	100	98
		1.67	% V/V	1	QT/A	FALLBD	A	1009	75	100	100	10	100	95
	Mean =								94	100	100	66	100	98
25	Aim EW Express	0.0074	LB A/A	0.5	FL OZ/A	FALLBD	A	301	100	100	100	100	100	90
	2,4-D Ester	0.075	OZ A/A	0.1	OZ/A	FALLBD	A	309	100	100	100	95	100	96
	COC	0.5	LB A/A	1	PT/A	FALLBD	A	708	100	100	100	98	100	100
		1.67	% V/V	1	QT/A	FALLBD	A	811	100	100	100	100	100	100
	Mean =								100	100	100	98	100	97
26	Aim EW 2,4-D Ester	0.0074	LB A/A	0.5	FL OZ/A	FALLBD	A	302	100	95	100	75	90	70
	COC	0.25	LB A/A	0.5	PT/A	FALLBD	A	501	98	100	100	90	95	90
		1.67	% V/V	1	QT/A	FALLBD	A	606	95	100	100	50	100	85
								1001	95	100	90	30	100	20
	Mean =								97	99	98	61	96	66

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									TAROF	SENGL	ERICA	TAROF	SENGL	ERICA
									EFF	EFF	EFF	EFF	EFF	EFF
									%	%	%	%	%	%
									29/Mar/2006	29/Mar/2006	29/Mar/2006	28/Apr/2006	28/Apr/2006	28/Apr/2006
									6-8"	2-4"	1-2"rose	12-18"	6-24"	2-5"
									5 YD2	20 YD2	100 YD2	5 YD2	10 YD2	30 YD2
									AW and EC	AW and EC	AW and EC	WJ + EC	WJ + EC	WJ + EC
									149 DA-A	149 DA-A	149 DA-A	179 DA-A	179 DA-A	179 DA-A
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5	6
27	Aim EW	0.0111	LB A/A	0.75	FL OZ/A	FALLBD	A	303	100	100	100	93	90	85
	2,4-D Ester	0.375	LB A/A	0.75	PT/A	FALLBD	A	307	99	97	100	75	100	88
	COC	1.67	% V/V	1	QT/A	FALLBD	A	610	100	100	100	90	100	100
								807	97	100	100	65	100	50
								Mean =	99	99	100	81	98	81
28	Aim EW	0.0148	LB A/A	1	FL OZ/A	FALLBD	A	304	100	100	95	100	100	95
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	403	100	100	100	85	95	90
	COC	1.67	% V/V	1	QT/A	FALLBD	A	702	100	100	100	85	100	90
								1012	95	100	100	60	100	100
								Mean =	99	100	99	83	99	94
29	Aim EW	0.0074	LB A/A	0.5	FL OZ/A	FALLBD	A	305	95	100	100	80	100	98
	2,4-D Ester	0.25	LB A/A	0.5	PT/A	FALLBD	A	504	100	100	100	95	100	100
	Roundup Original	0.375	LB AE/A	1	PT/A	FALLBD	A	701	100	100	100	40	95	98
	COC	1.67	% V/V	1	QT/A	FALLBD	A	1004	100	100	100	40	100	95
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A							
								Mean =	99	100	100	64	99	98
30	Roundup WeatherMAX	0.56	LB AE/A	1	PT/A	FALLBD	A	306	100	100	100	85	90	100
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A	402	100	100	100	90	85	95
								709	100	100	100	95	100	97
								1003	95	100	100	25	100	97
								Mean =	99	100	100	74	94	97

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Weed Code									GLXMA	ERICA	SETFA
Crop Code											
Part Rated									CI		
Rating Data Type										EFF	EFF
Rating Unit									%	%	%
Rating Date									17/May/2006	17/May/2006	17/May/2006
Crop Stage									VE		
Weed Stage										<2 in	1-2 in
Weed Density, Unit										50 YD2	10 YD2
Assessed By									EC+JM+AM	EC+JM+AM	EC+JM+AM
Trt-Eval Interval									168 DA-A	198 DA-A	198 DA-A
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	7	8	9
1	Non-treated check							101	0	0	0
								409	0	0	0
								802	0	0	0
								1010	0	0	0
								Mean =	0	0	0
2	Pursuit	0.0625	LB A/A	4	FL OZ/A	FALLBD	A	102	0	98	95
	Authority	0.2	LB A/A	4.27	OZ/A	FALLBD	A	408	0	100	99
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	602	0	100	99
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A	1011	0	98	100
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A				
								Mean =	0	99	98
3	Pursuit	0.047	LB A/A	3	FL OZ/A	FALLBD	A	103	0	96	75
	Authority	0.15	LB A/A	3.2	OZ/A	FALLBD	A	405	0	99	50
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	611	0	97	67
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A	905	0	95	75
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A				
								Mean =	0	97	67
4	Scepter	0.122	LB A/A	2.8	OZ/A	FALLBD	A	104	3	99	93
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	506	0	100	90
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A	603	0	99	25
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A	906	0	100	90
								Mean =	1	100	75
5	Scepter	0.122	LB A/A	2.8	OZ/A	FALLBD	A	105	0	99	100
	Prowl H2O	1.43	LB A/A	3	PT/A	FALLBD	A	407	0	99	100
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	707	0	100	99
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A	1005	0	96	100
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A				
								Mean =	0	99	100
6	Scepter	0.122	LB A/A	2.8	OZ/A	FALLBD	A	106	0	95	87
	Weedmaster	0.97	LB A/A	2	PT/A	FALLBD	A	412	0	100	99
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A	803	0	100	80
	NIS	0.25	% V/V	0.25	% V/V	FALLBD	A	901	0	84	70
								Mean =	0	95	84
7	Extreme	0.814	LB A/A	3	PTS/A	FALLBD	A	107	0	99	50
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	308	0	99	99
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A	612	0	100	92
	NIS	0.125	% V/V	0.125	% V/V	FALLBD	A	908	0	99	97
								Mean =	0	99	85
8	Canopy EX			2.2	OZ/A	FALLBD	A	108	0	100	97
	Classic	0.5	OZ A/A	2	OZ/A	FALLBD	A	410	0	99	99
	Express	0.15	OZ A/A	0.2	OZ/A	FALLBD	A	607	0	100	60
	2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD	A	907	0	98	99
	COC	1	% V/V	1	% V/V	FALLBD	A				
								Mean =	0	99	89
9	Canopy EX			1.65	OZ/A	FALLBD	A	109	0	99	97
	Classic	0.375	OZ A/A	1.5	OZ/A	FALLBD	A	511	0	100	70
	Express	0.113	OZ A/A	0.15	OZ/A	FALLBD	A	609	0	99	70
	2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD	A	812	0	100	100
	COC	1	% V/V	1	% V/V	FALLBD	A				
								Mean =	0	100	84

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Weed Code									GLXMA	ERICA	SETFA
Crop Code											
Part Rated									CI		
Rating Data Type										EFF	EFF
Rating Unit									%	%	%
Rating Date									17/May/2006	17/May/2006	17/May/2006
Crop Stage									VE		
Weed Stage										<2 in	1-2 in
Weed Density, Unit										50 YD2	10 YD2
Assessed By									EC+JM+AM	EC+JM+AM	EC+JM+AM
Trt-Eval Interval									168 DA-A	198 DA-A	198 DA-A
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	7	8	9
10	Canopy EX			1.1	OZ/A	FALLBD	A	110	0	100	45
	Classic	0.25	OZ A/A	1	OZ/A	FALLBD	A	512	0	100	100
	Express	0.075	OZ A/A	0.1	OZ/A	FALLBD	A	604	0	100	37
	2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD	A	810	0	100	90
	COC	1	% V/V	1	% V/V	FALLBD	A				
								Mean =	0	100	68
11	Valor	1	OZ A/A	1.96	OZ/A	FALLBD	A	111	0	99	55
	2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD	A	505	0	100	92
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A	804	0	100	77
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A	1007	0	98	82
								Mean =	0	99	77
12	Autumn	0.00187	LB A/A	0.3	OZ/A	FALLBD	A	112	0	93	90
	COC	1	% V/V	1	% V/V	FALLBD	A	311	0	98	97
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A	712	0	77	95
								1002	0	0	100
								Mean =	0	67	96
13	Autumn	0.00375	LB A/A	0.6	OZ/A	FALLBD	A	201	0	95	82
	COC	1	% V/V	1	% V/V	FALLBD	A	508	0	95	83
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A	705	0	30	100
								912	0	95	15
								Mean =	0	79	70
14	Autumn	0.00187	LB A/A	0.3	OZ/A	FALLBD	A	202	0	98	80
	Sencor 75DF	0.47	LB A/A	10	OZ/A	FALLBD	A	404	0	99	96
	COC	1	% V/V	1	% V/V	FALLBD	A	605	0	99	80
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A	909	0	99	93
								Mean =	0	99	87
15	Autumn	0.00187	LB A/A	0.3	OZ/A	FALLBD	A	203	0	100	97
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	411	0	100	95
	COC	1	% V/V	1	% V/V	FALLBD	A	601	0	98	80
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A	1006	0	90	50
								Mean =	0	97	81
16	Autumn	0.00187	LB A/A	0.3	OZ/A	FALLBD	A	204	0	100	65
	Roundup WeatherMAX	0.56	LB AE/A	1	PT/A	FALLBD	A	401	0	96	70
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A	711	0	99	97
								910	0	97	99
								Mean =	0	98	83
17	Roundup WeatherMAX	0.56	LB AE/A	1	PT/A	FALLBD	A	205	0	99	40
	2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD	A	406	0	100	80
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A	806	0	100	74
								902	0	89	55
								Mean =	0	97	62
18	Autumn	0.00187	LB A/A	0.3	OZ/A	FALLBD	A	206	0	98	100
	Authority	0.117	LB A/A	2.5	OZ/A	FALLBD	A	310	0	98	100
	COC	1	% V/V	1	% V/V	FALLBD	A	710	0	98	20
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A	809	0	96	25
								Mean =	0	98	61

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									GLXMA	ERICA	SETFA
									CI		
									%	EFF	EFF
									17/May/2006	17/May/2006	17/May/2006
									VE		
										<2 in	1-2 in
										50 YD2	10 YD2
									EC+JM+AM	EC+JM+AM	EC+JM+AM
									168 DA-A	198 DA-A	198 DA-A
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	7	8	9
19	Canopy XL			4	OZ/A	FALLBD	A	207	0	100	82
	Classic	0.0234	LB A/A	1.5	OZ/A	FALLBD	A	502	0	100	90
	Authority	0.117	LB A/A	2.5	OZ/A	FALLBD	A	801	0	99	77
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	1008	0	99	100
	COC	1	% V/V	1	% V/V	FALLBD	A				
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A				
								Mean =	0	100	87
20	Canopy EX			1.75	OZ/A	FALLBD	A	208	0	100	99
	Classic	0.4	OZ A/A	1.6	OZ/A	FALLBD	A	503	0	99	100
	Express	0.12	OZ A/A	0.16	OZ/A	FALLBD	A	704	0	90	100
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	904	0	98	97
	COC	1	% V/V	1	% V/V	FALLBD	A				
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A				
								Mean =	0	97	99
21	Spartan 4F	0.125	LB A/A	4	FL OZ/A	FALLBD	A	209	0	99	100
	Classic	0.0156	LB A/A	1	OZ/A	FALLBD	A	312	0	100	100
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	706	0	98	100
	COC	1.67	% V/V	1	QT/A	FALLBD	A	903	0	95	100
								Mean =	0	98	100
22	Spartan 4F	0.125	LB A/A	4	FL OZ/A	FALLBD	A	210	0	99	100
	Classic	0.0078	LB A/A	0.5	OZ/A	FALLBD	A	510	0	100	75
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	608	0	99	49
	COC	1.67	% V/V	1	QT/A	FALLBD	A	808	0	99	55
								Mean =	0	99	70
23	Spartan 4F	0.125	LB A/A	4	FL OZ/A	FALLBD	A	211	2	98	83
	Sencor 75DF	0.187	LB A/A	4	OZ/A	FALLBD	A	509	0	100	70
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	805	0	100	90
	COC	1.67	% V/V	1	QT/A	FALLBD	A	911	0	98	99
								Mean =	1	99	86
24	Spartan 4F	0.125	LB A/A	4	FL OZ/A	FALLBD	A	212	0	99	96
	Sencor 75DF	0.094	LB A/A	2	OZ/A	FALLBD	A	507	0	100	50
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	703	0	95	85
	COC	1.67	% V/V	1	QT/A	FALLBD	A	1009	0	88	97
								Mean =	0	96	82
25	Aim EW	0.0074	LB A/A	0.5	FL OZ/A	FALLBD	A	301	0	90	0
	Express	0.075	OZ A/A	0.1	OZ/A	FALLBD	A	309	0	99	95
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	708	0	99	85
	COC	1.67	% V/V	1	QT/A	FALLBD	A	811	0	100	97
								Mean =	0	97	69
26	Aim EW	0.0074	LB A/A	0.5	FL OZ/A	FALLBD	A	302	0	92	0
	2,4-D Ester	0.25	LB A/A	0.5	PT/A	FALLBD	A	501	0	96	100
	COC	1.67	% V/V	1	QT/A	FALLBD	A	606	0	90	80
							1001	0	0	75	
								Mean =	0	70	64
27	Aim EW	0.0111	LB A/A	0.75	FL OZ/A	FALLBD	A	303	0	92	75
	2,4-D Ester	0.375	LB A/A	0.75	PT/A	FALLBD	A	307	0	98	55
	COC	1.67	% V/V	1	QT/A	FALLBD	A	610	0	99	79
							807	0	92	45	
								Mean =	0	95	64

Purdue University

									GLXMA	ERICA	SETFA
Weed Code											
Crop Code									CI		
Part Rated											
Rating Data Type									%	EFF	EFF
Rating Unit										%	%
Rating Date									17/May/2006	17/May/2006	17/May/2006
Crop Stage									VE		
Weed Stage										<2 in	1-2 in
Weed Density, Unit										50 YD2	10 YD2
Assessed By									EC+JM+AM	EC+JM+AM	EC+JM+AM
Trt-Eval Interval									168 DA-A	198 DA-A	198 DA-A
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	7	8	9
28	Aim EW	0.0148	LB A/A	1	FL OZ/A	FALLBD	A	304	0	98	10
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A	403	0	97	95
	COC	1.67	% V/V	1	QT/A	FALLBD	A	702	0	92	40
								1012	0	99	96
								Mean =	0	97	60
29	Aim EW	0.0074	LB A/A	0.5	FL OZ/A	FALLBD	A	305	0	100	0
	2,4-D Ester	0.25	LB A/A	0.5	PT/A	FALLBD	A	504	0	100	94
	Roundup Original	0.375	LB AE/A	1	PT/A	FALLBD	A	701	0	97	85
	COC	1.67	% V/V	1	QT/A	FALLBD	A	1004	0	95	45
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A				
								Mean =	0	98	56
30	Roundup WeatherMAX	0.56	LB AE/A	1	PT/A	FALLBD	A	306	0	99	99
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A	402	0	96	75
								709	0	99	97
								1003	0	70	74
								Mean =	0	91	86

Purdue University

Fall applied no-till soybean herbicide evaluation at ACRE

Trial ID: 05F-ACR-NTS-07
 Location: ACRE

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

Weed Code							TAROF	SENGL	ERICA	TAROF	SENGL	ERICA	
Crop Code													
Part Rated													
Rating Data Type							EFF	EFF	EFF	EFF	EFF	EFF	
Rating Unit							%	%	%	%	%	%	
Rating Date							29/Mar/2006	29/Mar/2006	29/Mar/2006	28/Apr/2006	28/Apr/2006	28/Apr/2006	
Crop Stage							6-8"	2-4"	1-2*rose	12-18"	6-24"	2-5"	
Weed Stage							5 YD2	20 YD2	100 YD2	5 YD2	10 YD2	30 YD2	
Weed Density, Unit							AW and EC	AW and EC	AW and EC	WJ + EC	WJ + EC	WJ + EC	
Assessed By							149 DA-A	149 DA-A	149 DA-A	179 DA-A	179 DA-A	179 DA-A	
Tri-Eval Interval													
Tri No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6
1	Non-treated check							0 c	0 c	0 c	0 e	0 d	0 f
2	Pursuit	0.0625	LB A/A	4	FL OZ/A	FALLBD	A	100 a	100 a	100 a	92 ab	100 a	100 a
	Authority	0.2	LB A/A	4.27	OZ/A	FALLBD	A						
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A						
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A						
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A						
3	Pursuit	0.047	LB A/A	3	FL OZ/A	FALLBD	A	100 a	100 a	100 a	95 a	100 a	100 a
	Authority	0.15	LB A/A	3.2	OZ/A	FALLBD	A						
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A						
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A						
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A						
4	Scepter	0.122	LB A/A	2.8	OZ/A	FALLBD	A	100 a	100 a	100 a	98 a	100 a	100 a
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A						
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A						
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A						
5	Scepter	0.122	LB A/A	2.8	OZ/A	FALLBD	A	100 a	100 a	100 a	88 ab	100 a	100 a
	Prowl H2O	1.43	LB A/A	3	PT/A	FALLBD	A						
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A						
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A						
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A						
6	Scepter	0.122	LB A/A	2.8	OZ/A	FALLBD	A	100 a	100 a	100 a	100 a	100 a	100 a
	Weedmaster	0.97	LB A/A	2	PT/A	FALLBD	A						
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A						
	NIS	0.25	% V/V	0.25	% V/V	FALLBD	A						
7	Extreme	0.814	LB A/A	3	PTS/A	FALLBD	A	100 a	100 a	100 a	93 ab	100 a	100 a
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A						
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A						
	NIS	0.125	% V/V	0.125	% V/V	FALLBD	A						
8	Canopy EX			2.2	OZ/A	FALLBD	A	100 a	100 a	100 a	99 a	100 a	99 a
	Classic	0.5	OZ A/A	2	OZ/A	FALLBD	A						
	Express	0.15	OZ A/A	0.2	OZ/A	FALLBD	A						
	2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD	A						
	COC	1	% V/V	1	% V/V	FALLBD	A						
9	Canopy EX			1.65	OZ/A	FALLBD	A	100 a	100 a	100 a	98 a	100 a	100 a
	Classic	0.375	OZ A/A	1.5	OZ/A	FALLBD	A						
	Express	0.113	OZ A/A	0.15	OZ/A	FALLBD	A						
	2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD	A						
	COC	1	% V/V	1	% V/V	FALLBD	A						
10	Canopy EX			1.1	OZ/A	FALLBD	A	100 a	100 a	100 a	100 a	100 a	100 a
	Classic	0.25	OZ A/A	1	OZ/A	FALLBD	A						
	Express	0.075	OZ A/A	0.1	OZ/A	FALLBD	A						
	2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD	A						
	COC	1	% V/V	1	% V/V	FALLBD	A						

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Weed Code							TAROF	SENGL	ERICA	TAROF	SENGL	ERICA	
Crop Code													
Part Rated													
Rating Data Type							EFF	EFF	EFF	EFF	EFF	EFF	
Rating Unit							%	%	%	%	%	%	
Rating Date							29/Mar/2006	29/Mar/2006	29/Mar/2006	28/Apr/2006	28/Apr/2006	28/Apr/2006	
Crop Stage													
Weed Stage							6-8"	2-4"	1-2"rose	12-18"	6-24"	2-5"	
Weed Density, Unit							5 YD2	20 YD2	100 YD2	5 YD2	10 YD2	30 YD2	
Assessed By							AW and EC	AW and EC	AW and EC	WJ + EC	WJ + EC	WJ + EC	
Trt-Eval Interval							149 DA-A	149 DA-A	149 DA-A	179 DA-A	179 DA-A	179 DA-A	
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6
11	Valor	1	OZ A/A	1.96	OZ/A	FALLBD	A	100 a	100 a	100 a	88 ab	100 a	100 a
	2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD	A						
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A						
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A						
12	Autumn	0.00187	LB A/A	0.3	OZ/A	FALLBD	A	100 a	100 a	97 a	98 a	100 a	48 e
	COC	1	% V/V	1	% V/V	FALLBD	A						
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A						
13	Autumn	0.00375	LB A/A	0.6	OZ/A	FALLBD	A	100 a	100 a	77 b	94 a	100 a	46 e
	COC	1	% V/V	1	% V/V	FALLBD	A						
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A						
14	Autumn	0.00187	LB A/A	0.3	OZ/A	FALLBD	A	98 a	100 a	100 a	88 ab	100 a	100 a
	Sencor 75DF	0.47	LB A/A	10	OZ/A	FALLBD	A						
	COC	1	% V/V	1	% V/V	FALLBD	A						
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A						
15	Autumn	0.00187	LB A/A	0.3	OZ/A	FALLBD	A	100 a	100 a	100 a	91 ab	99 ab	97 ab
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A						
	COC	1	% V/V	1	% V/V	FALLBD	A						
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A						
16	Autumn	0.00187	LB A/A	0.3	OZ/A	FALLBD	A	100 a	100 a	100 a	100 a	100 a	97 ab
	Roundup WeatherMAX	0.56	LB AE/A	1	PT/A	FALLBD	A						
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A						
17	Roundup WeatherMAX	0.56	LB AE/A	1	PT/A	FALLBD	A	100 a	100 a	100 a	95 a	100 a	99 a
	2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD	A						
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A						
18	Autumn	0.00187	LB A/A	0.3	OZ/A	FALLBD	A	100 a	100 a	99 a	96 a	100 a	86 bc
	Authority	0.117	LB A/A	2.5	OZ/A	FALLBD	A						
	COC	1	% V/V	1	% V/V	FALLBD	A						
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A						
19	Canopy XL			4	OZ/A	FALLBD	A	100 a	100 a	100 a	91 ab	100 a	97 ab
	Classic	0.0234	LB A/A	1.5	OZ/A	FALLBD	A						
	Authority	0.117	LB A/A	2.5	OZ/A	FALLBD	A						
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A						
	COC	1	% V/V	1	% V/V	FALLBD	A						
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A						
20	Canopy EX			1.75	OZ/A	FALLBD	A	100 a	100 a	100 a	100 a	100 a	97 ab
	Classic	0.4	OZ A/A	1.6	OZ/A	FALLBD	A						
	Express	0.12	OZ A/A	0.16	OZ/A	FALLBD	A						
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A						
	COC	1	% V/V	1	% V/V	FALLBD	A						
	UAN 28%	2.5	% V/V	1.5	QT/A	FALLBD	A						
21	Spartan 4F	0.125	LB A/A	4	FL OZ/A	FALLBD	A	100 a	100 a	100 a	89 ab	100 a	96 ab
	Classic	0.0156	LB A/A	1	OZ/A	FALLBD	A						
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A						
	COC	1.67	% V/V	1	QT/A	FALLBD	A						

Purdue University

Weed Code							TAROF	SENGL	ERICA	TAROF	SENGL	ERICA	
Crop Code													
Part Rated													
Rating Data Type							EFF	EFF	EFF	EFF	EFF	EFF	EFF
Rating Unit							%	%	%	%	%	%	%
Rating Date							29/Mar/2006	29/Mar/2006	29/Mar/2006	28/Apr/2006	28/Apr/2006	28/Apr/2006	28/Apr/2006
Crop Stage													
Weed Stage							6-8"	2-4"	1-2"rose	12-18"	6-24"	2-5"	
Weed Density, Unit							5 YD2	20 YD2	100 YD2	5 YD2	10 YD2	30 YD2	
Assessed By							AW and EC	AW and EC	AW and EC	WJ + EC	WJ + EC	WJ + EC	
Trt-Eval Interval							149 DA-A	149 DA-A	149 DA-A	179 DA-A	179 DA-A	179 DA-A	
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6
22	Spartan 4F	0.125	LB A/A	4	FL OZ/A	FALLBD	A	100 a	100 a	100 a	91 ab	100 a	100 a
	Classic	0.0078	LB A/A	0.5	OZ/A	FALLBD	A						
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A						
	COC	1.67	% V/V	1	QT/A	FALLBD	A						
23	Spartan 4F	0.125	LB A/A	4	FL OZ/A	FALLBD	A	98 a	100 a	100 a	74 bcd	100 a	100 a
	Sencor 75DF	0.187	LB A/A	4	OZ/A	FALLBD	A						
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A						
	COC	1.67	% V/V	1	QT/A	FALLBD	A						
24	Spartan 4F	0.125	LB A/A	4	FL OZ/A	FALLBD	A	94 b	100 a	100 a	66 cd	100 a	98 a
	Sencor 75DF	0.094	LB A/A	2	OZ/A	FALLBD	A						
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A						
	COC	1.67	% V/V	1	QT/A	FALLBD	A						
25	Aim EW	0.0074	LB A/A	0.5	FL OZ/A	FALLBD	A	100 a	100 a	100 a	98 a	100 a	97 ab
	Express	0.075	OZ A/A	0.1	OZ/A	FALLBD	A						
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A						
	COC	1.67	% V/V	1	QT/A	FALLBD	A						
26	Aim EW	0.0074	LB A/A	0.5	FL OZ/A	FALLBD	A	97 ab	99 b	98 a	61 d	96 bc	66 d
	2,4-D Ester	0.25	LB A/A	0.5	PT/A	FALLBD	A						
	COC	1.67	% V/V	1	QT/A	FALLBD	A						
27	Aim EW	0.0111	LB A/A	0.75	FL OZ/A	FALLBD	A	99 a	99 ab	100 a	81 abc	98 ab	81 c
	2,4-D Ester	0.375	LB A/A	0.75	PT/A	FALLBD	A						
	COC	1.67	% V/V	1	QT/A	FALLBD	A						
28	Aim EW	0.0148	LB A/A	1	FL OZ/A	FALLBD	A	99 a	100 a	99 a	83 abc	99 ab	94 ab
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A						
	COC	1.67	% V/V	1	QT/A	FALLBD	A						
29	Aim EW	0.0074	LB A/A	0.5	FL OZ/A	FALLBD	A	99 a	100 a	100 a	64 cd	99 ab	98 ab
	2,4-D Ester	0.25	LB A/A	0.5	PT/A	FALLBD	A						
	Roundup Original	0.375	LB AE/A	1	PT/A	FALLBD	A						
	COC	1.67	% V/V	1	QT/A	FALLBD	A						
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A						
30	Roundup WeatherMAX	0.56	LB AE/A	1	PT/A	FALLBD	A	99 a	100 a	100 a	74 bcd	94 c	97 ab
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A						
LSD (P=.05)							3.7	0.8	8.3	19.4	2.8	11.8	
Standard Deviation							2.6	0.5	5.9	13.7	2.0	8.3	
CV							2.7	0.55	6.17	15.93	2.09	9.26	
Grand Mean							95.93	96.6	95.62	86.04	96.1	89.71	
Bartlett's X2							66.725	0.747	46.647	75.702	21.703	111.311	
P(Bartlett's X2)							0.001*	0.387	0.001*	0.001*	0.003*	0.001*	
Replicate F							4.065	0.699	0.901	11.011	1.744	2.672	
Replicate Prob(F)							0.0094	0.5553	0.4441	0.0001	0.1639	0.0524	
Treatment F							196.080	4653.169	39.490	8.257	328.138	28.374	
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	

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

Purdue University

Weed Code							GLXMA	ERICA	SETFA	
Crop Code							CI			
Part Rated								EFF	EFF	
Rating Data Type							%	%	%	
Rating Unit							17/May/2006	17/May/2006	17/May/2006	
Rating Date							VE			
Crop Stage								<2 in	1-2 in	
Weed Stage								50 YD2	10 YD2	
Weed Density, Unit							EC+JM+AM	EC+JM+AM	EC+JM+AM	
Assessed By							168 DA-A	198 DA-A	198 DA-A	
Trt-Eval Interval										
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	7	8	9
1	Non-treated check							0 b	0 d	0 d
2	Pursuit	0.0625	LB A/A	4	FL OZ/A	FALLBD	A	0 b	99 a	98 a
	Authority	0.2	LB A/A	4.27	OZ/A	FALLBD	A			
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A			
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A			
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A			
3	Pursuit	0.047	LB A/A	3	FL OZ/A	FALLBD	A	0 b	97 ab	67 abc
	Authority	0.15	LB A/A	3.2	OZ/A	FALLBD	A			
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A			
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A			
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A			
4	Scepter	0.122	LB A/A	2.8	OZ/A	FALLBD	A	1 a	100 a	75 abc
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A			
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A			
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A			
5	Scepter	0.122	LB A/A	2.8	OZ/A	FALLBD	A	0 b	99 a	100 a
	Prowl H2O	1.43	LB A/A	3	PT/A	FALLBD	A			
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A			
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A			
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A			
6	Scepter	0.122	LB A/A	2.8	OZ/A	FALLBD	A	0 b	95 ab	84 abc
	Weedmaster	0.97	LB A/A	2	PT/A	FALLBD	A			
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A			
	NIS	0.25	% V/V	0.25	% V/V	FALLBD	A			
7	Extreme	0.814	LB A/A	3	PTS/A	FALLBD	A	0 b	99 a	85 abc
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A			
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A			
	NIS	0.125	% V/V	0.125	% V/V	FALLBD	A			
8	Canopy EX			2.2	OZ/A	FALLBD	A	0 b	99 a	89 abc
	Classic	0.5	OZ A/A	2	OZ/A	FALLBD	A			
	Express	0.15	OZ A/A	0.2	OZ/A	FALLBD	A			
	2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD	A			
	COC	1	% V/V	1	% V/V	FALLBD	A			
9	Canopy EX			1.65	OZ/A	FALLBD	A	0 b	100 a	84 abc
	Classic	0.375	OZ A/A	1.5	OZ/A	FALLBD	A			
	Express	0.113	OZ A/A	0.15	OZ/A	FALLBD	A			
	2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD	A			
	COC	1	% V/V	1	% V/V	FALLBD	A			
10	Canopy EX			1.1	OZ/A	FALLBD	A	0 b	100 a	68 abc
	Classic	0.25	OZ A/A	1	OZ/A	FALLBD	A			
	Express	0.075	OZ A/A	0.1	OZ/A	FALLBD	A			
	2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD	A			
	COC	1	% V/V	1	% V/V	FALLBD	A			
11	Valor	1	OZ A/A	1.96	OZ/A	FALLBD	A	0 b	99 a	77 abc
	2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD	A			
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A			
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A			

Purdue University

Weed Code							GLXMA	ERICA	SETFA	
Crop Code							CI			
Part Rated										
Rating Data Type								EFF	EFF	
Rating Unit							%	%	%	
Rating Date							17/May/2006	17/May/2006	17/May/2006	
Crop Stage							VE			
Weed Stage								<2 in	1-2 in	
Weed Density, Unit								50 YD2	10 YD2	
Assessed By							EC+JM+AM	EC+JM+AM	EC+JM+AM	
Trt-Eval Interval							168 DA-A	198 DA-A	198 DA-A	
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	7	8	9
12	Autumn COC UAN 28%	0.00187 1 2.5	LB A/A % V/V % V/V	0.3 1 1.5	OZ/A % V/V QT/A	FALLBD FALLBD FALLBD	A A A	0 b	67 c	96 ab
13	Autumn COC UAN 28%	0.00375 1 2.5	LB A/A % V/V % V/V	0.6 1 1.5	OZ/A % V/V QT/A	FALLBD FALLBD FALLBD	A A A	0 b	79 bc	70 abc
14	Autumn Sencor 75DF COC UAN 28%	0.00187 0.47 1 2.5	LB A/A LB A/A % V/V % V/V	0.3 10 1 1.5	OZ/A OZ/A % V/V QT/A	FALLBD FALLBD FALLBD FALLBD	A A A A	0 b	99 a	87 abc
15	Autumn 2,4-D Ester COC UAN 28%	0.00187 0.5 1 2.5	LB A/A LB A/A % V/V % V/V	0.3 1 1 1.5	OZ/A PT/A % V/V QT/A	FALLBD FALLBD FALLBD FALLBD	A A A A	0 b	97 ab	81 abc
16	Autumn Roundup WeatherMAX AMS	0.00187 0.56 2.5	LB A/A LB AE/A LB A/A	0.3 1 2.5	OZ/A PT/A LB/A	FALLBD FALLBD FALLBD	A A A	0 b	98 a	83 abc
17	Roundup WeatherMAX 2,4-D Ester AMS	0.56 8 2.5	LB AE/A OZ A/A LB A/A	1 1 2.5	PT/A PT/A LB/A	FALLBD FALLBD FALLBD	A A A	0 b	97 ab	62 bc
18	Autumn Authority COC UAN 28%	0.00187 0.117 1 2.5	LB A/A LB A/A % V/V % V/V	0.3 2.5 1 1.5	OZ/A OZ/A % V/V QT/A	FALLBD FALLBD FALLBD FALLBD	A A A A	0 b	98 ab	61 c
19	Canopy XL Classic Authority 2,4-D Ester COC UAN 28%	0.0234 0.117 0.5 1 2.5	LB A/A LB A/A LB A/A % V/V % V/V	4 1.5 2.5 1 1 1.5	OZ/A OZ/A OZ/A PT/A % V/V QT/A	FALLBD FALLBD FALLBD FALLBD FALLBD FALLBD	A A A A A A	0 b	100 a	87 abc
20	Canopy EX Classic Express 2,4-D Ester COC UAN 28%	0.4 0.12 0.5 1 2.5	OZ A/A OZ A/A LB A/A % V/V % V/V	1.75 1.6 0.16 1 1 1.5	OZ/A OZ/A OZ/A PT/A % V/V QT/A	FALLBD FALLBD FALLBD FALLBD FALLBD FALLBD	A A A A A A	0 b	97 ab	99 a
21	Spartan 4F Classic 2,4-D Ester COC	0.125 0.0156 0.5 1.67	LB A/A LB A/A LB A/A % V/V	4 1 1 1	FL OZ/A OZ/A PT/A QT/A	FALLBD FALLBD FALLBD FALLBD	A A A A	0 b	98 a	100 a
22	Spartan 4F Classic 2,4-D Ester COC	0.125 0.0078 0.5 1.67	LB A/A LB A/A LB A/A % V/V	4 0.5 1 1	FL OZ/A OZ/A PT/A QT/A	FALLBD FALLBD FALLBD FALLBD	A A A A	0 b	99 a	70 abc

Purdue University

Weed Code							GLXMA	ERICA	SETFA	
Crop Code							CI			
Part Rated										
Rating Data Type								EFF	EFF	
Rating Unit							%	%	%	
Rating Date							17/May/2006	17/May/2006	17/May/2006	
Crop Stage							VE			
Weed Stage								<2 in	1-2 in	
Weed Density, Unit								50 YD2	10 YD2	
Assessed By							EC+JM+AM	EC+JM+AM	EC+JM+AM	
Trt-Eval Interval							168 DA-A	198 DA-A	198 DA-A	
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	7	8	9
23	Spartan 4F	0.125	LB A/A	4	FL OZ/A	FALLBD	A	1 a	99 a	86 abc
	Sencor 75DF	0.187	LB A/A	4	OZ/A	FALLBD	A			
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A			
	COC	1.67	% V/V	1	QT/A	FALLBD	A			
24	Spartan 4F	0.125	LB A/A	4	FL OZ/A	FALLBD	A	0 b	96 ab	82 abc
	Sencor 75DF	0.094	LB A/A	2	OZ/A	FALLBD	A			
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A			
	COC	1.67	% V/V	1	QT/A	FALLBD	A			
25	Aim EW	0.0074	LB A/A	0.5	FL OZ/A	FALLBD	A	0 b	97 ab	69 abc
	Express	0.075	OZ A/A	0.1	OZ/A	FALLBD	A			
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A			
	COC	1.67	% V/V	1	QT/A	FALLBD	A			
26	Aim EW	0.0074	LB A/A	0.5	FL OZ/A	FALLBD	A	0 b	70 c	64 bc
	2,4-D Ester	0.25	LB A/A	0.5	PT/A	FALLBD	A			
	COC	1.67	% V/V	1	QT/A	FALLBD	A			
27	Aim EW	0.0111	LB A/A	0.75	FL OZ/A	FALLBD	A	0 b	95 ab	64 bc
	2,4-D Ester	0.375	LB A/A	0.75	PT/A	FALLBD	A			
	COC	1.67	% V/V	1	QT/A	FALLBD	A			
28	Aim EW	0.0148	LB A/A	1	FL OZ/A	FALLBD	A	0 b	97 ab	60 c
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A			
	COC	1.67	% V/V	1	QT/A	FALLBD	A			
29	Aim EW	0.0074	LB A/A	0.5	FL OZ/A	FALLBD	A	0 b	98 a	56 c
	2,4-D Ester	0.25	LB A/A	0.5	PT/A	FALLBD	A			
	Roundup Original	0.375	LB AE/A	1	PT/A	FALLBD	A			
	COC	1.67	% V/V	1	QT/A	FALLBD	A			
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A			
30	Roundup WeatherMAX	0.56	LB AE/A	1	PT/A	FALLBD	A	0 b	91 ab	86 abc
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A			
LSD (P=.05)							0.5	18.8	34.0	
Standard Deviation							0.3	13.3	24.1	
CV							777.26	14.46	31.57	
Grand Mean							0.04	91.83	76.24	
Bartlett's X2							0.478	262.98	81.502	
P(Bartlett's X2)							0.49	0.001*	0.001*	
Replicate F							1.986	3.400	1.862	
Replicate Prob(F)							0.1219	0.0213	0.1420	
Treatment F							1.000	8.375	2.587	
Treatment Prob(F)							0.4798	0.0001	0.0004	

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