

# Purdue University

## Glyphosate Resistant Horseweed Efficacy - Postemergence Soybean Treatments

Trial ID: 04-SEPAC-GRH-SPST  
Location: SEPAC

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:** Butlerville  
**State/Prov.:** IN  
**Postal Code:** 47223 **Initiation Date:** 28/Apr/2005  
**Country:** USA **Planned Completion Date:** 1/Nov/2005  
**Directions:** Field T2

### COOPERATOR/LANDOWNER

**Cooperator:** Southeast Purdue Ag Center **Country:** USA  
**Org:** Purdue University **Phone No:** 812-458-6977  
**Address 1:** 4425 E Co Rd 350 N **Fax No:** 812-458-6979  
**Address 2:** PO Box 216  
**City:** Butlerville  
**State/Prov:** IN  
**Postal Code:** 47223

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

**Objective:** The objective of this study is to compare the performance of various glyphosates and glyphosate combinations on control of weeds ie; glyphosate resistant marestail, henbit, mouse-ear chickweed, groundsel, and others. And, observe crop tolerance.

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	ERICA	Erigeron canadensis	Horseweed
2.	PANDI	Panicum dichotomiflorum	Panicum, fall

**Crop 1:** GLXMA SOYBEAN **Variety:** DSR 3000 RR/STS  
**Planting Date:** 10/May/2004 **Planting Method:** No-Till drilled  
**Rate:** 204000 S/A **Depth:** 1 IN  
**Row Spacing:** 7.5 IN  
**Soil Temperature:** 67 F **Soil Moisture:** NORMAL

### 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.	corn		2004

  

No.	Date	Maintenance Treatment Name	Form Conc	Form Unit	Form Type	Rate	Rate Unit
1.	24/May/2005	Fusion	2.56		L	20	FL OZ/A

### SOIL DESCRIPTION

**% OM:** 1.4 **Texture:** Silt Loam  
**pH:** 6.0 **Soil Name:** Clermont  
**CEC:** 5.1 **Fert. Level:** P - 12 ppm, K - 65 ppm

### MOISTURE CONDITIONS

	Date	Time	Amount	Unit	Type	Interval	Unit
1.	30/Mar/2005	month	5.74	IN	Total Rainfall		
2.	30/Apr/2005	month	3.79	IN	Total Rainfall		
3.	31/May/2005	month	3.33	IN	Total Rainfall		
4.	30/Jun/2005	month	1.95	IN	Total Rainfall		

**Overall Moisture Conditions:** Wet early then very dry in the late spring.

**Closest Weather Station:** Located at SEPAC **Distance:** 0.5 **Unit:** MI

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## APPLICATION DESCRIPTION

	A	B
Application Date:	7/Jun/2005	23/Jun/2005
Time of Day:	10:00am	9:10am
Application Method:	SPRAY	SPRAY
Application Timing:	V1-SB	POSTBL
Applic. Placement:	BROFOL	BROFOL
Air Temp., Unit:	80 F	82 F
% Relative Humidity:		42
Wind Velocity, Unit:	3 MPH	1.5 MPH
Soil Temp., Unit:	73 F	72 F
Soil Moisture:		dry surf
% Cloud Cover:		0

## CROP STAGE AT EACH APPLICATION

	A	B
Crop 1 Code, Stage:	GLXMA V1	GLXMA V4-V5
Stage Scale:	NO CROP	DESC

## WEED STAGE AT EACH APPLICATION

	A	B
Weed 1 Code, Stage:	ERICA	ERICA
Stage Scale:	1-2" bolt	1-3"bolti
Density, Unit:	30 YD2	18 YD2
Weed 2 Code, Stage:	PANDI	PANDI
Stage Scale:		2-5"4leaf
Density, Unit:		135 YD2

## APPLICATION EQUIPMENT

	A	B
Operating Pressure:	26-27psi	26-27psi
Nozzle Type:	XR11002VS	XR11002VS
Nozzle Size:	XR11002VS	XR11002VS
Nozzle Spacing, Unit:	20 IN	20 IN
Boom Length, Unit:	10 FT	10 FT
Boom Height, Unit:	25 IN	25 IN
Ground Speed, Unit:	3 MPH	3 MPH
Carrier:	Water	Water
Spray Volume, Unit:	15 GPA	15 GPA
Propellant:	CO2	CO2

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## Glyphosate Resistant Horseweed Efficacy - Postemergence Soybean Treatments

Trial ID: 04-SEPAC-GRH-SPST  
 Location: SEPAC

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

Weed Code								GLXMA	ERICA	PANDI	GLXMA	ERICA	
Crop Code								GLXMA			GLXMA		
Part Rated								PLAQUA C	PLAQUA P	PLAQUA P	PLAQUA C	PLAQUA P	
Rating Data Type								PHYGEN	Efficacy	Efficacy	PHYGEN	Efficacy	
Rating Unit								%	%	%	%	%	
Rating Date								14/Jun/2005	14/Jun/2005	14/Jun/2005	23/Jun/2005	23/Jun/2005	
Crop Stage								V2 5"			V3-V4 6"		
Crop Stage Scale								DESC					
Weed Stage									.5-6"	2-12"		3-14"	
Weed Density, Unit									36 YD2	36 YD2		45 YD2	
Assessed By								VMD+VAM	VMD+VAM	VMD+VAM	VMD+VAM	VMD+VAM	
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5
1	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B	101					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	405					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	514					
								811					
Mean =								.	.	.	.	.	
2	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B	102					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	303					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	505					
								803					
Mean =								.	.	.	.	.	
3	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	103					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	314					
								501					
							707						
Mean =								.	.	.	.	.	
4	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B	104					
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	410					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	610					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	807					
Mean =								.	.	.	.	.	
5	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B	105					
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	409					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	614					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	806					
Mean =								.	.	.	.	.	
6	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B	106					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	302					
								507					
							805						
Mean =								.	.	.	.	.	
7	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B	107					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	312					
								502					
							808						
Mean =								.	.	.	.	.	
8	Untreated check							108	0*	0*	0*	0*	1*
								407	0	0	0	0	0
								603	0	0	0	0	0
								804	0	0	0	0	0
	Mean =								0	0	0	0	0

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Weed Code									GLXMA	ERICA	PANDI	GLXMA	ERICA
Crop Code									GLXMA			GLXMA	
Part Rated									PLAQUA C	PLAQUA P	PLAQUA P	PLAQUA C	PLAQUA P
Rating Data Type									PHYGEN	Efficacy	Efficacy	PHYGEN	Efficacy
Rating Unit									%	%	%	%	%
Rating Date									14/Jun/2005	14/Jun/2005	14/Jun/2005	23/Jun/2005	23/Jun/2005
Crop Stage									V2 5"			V3-V4 6"	
Crop Stage Scale									DESC				
Weed Stage										.5-6"	2-12"		3-14"
Weed Density, Unit										36 YD2	36 YD2		45 YD2
Assessed By									VMD+VAM	VMD+VAM	VMD+VAM	VMD+VAM	VMD+VAM
Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5
9	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B	109					
	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B	402					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	509					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	801					
	Mean =									.	.	.	.
10	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B	110					
	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B	301					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	611					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	709					
	Mean =									.	.	.	.
11	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B	111					
	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B	306					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	504					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	703					
	Mean =									.	.	.	.
12	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B	112					
	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B	406					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	604					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	712					
	Mean =									.	.	.	.
13	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B	113					
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	313					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	606					
								809					
	Mean =									.	.	.	.
14	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B	114					
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	309					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	605					
								812					
	Mean =									.	.	.	.
15	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B	201					
	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B	404					
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	613					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	701					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B						
Mean =									.	.	.	.	.
16	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B	202					
	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B	308					
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	612					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	704					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B						
Mean =									.	.	.	.	.
17	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B	203					
	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B	307					
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	608					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	705					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B						
Mean =									.	.	.	.	.

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Weed Code									GLXMA	ERICA	PANDI	GLXMA	ERICA
Crop Code									GLXMA			GLXMA	
Part Rated									PLAQUA C	PLAQUA P	PLAQUA P	PLAQUA C	PLAQUA P
Rating Data Type									PHYGEN	Efficacy	Efficacy	PHYGEN	Efficacy
Rating Unit									%	%	%	%	%
Rating Date									14/Jun/2005	14/Jun/2005	14/Jun/2005	23/Jun/2005	23/Jun/2005
Crop Stage									V2 5"			V3-V4 6"	
Crop Stage Scale									DESC				
Weed Stage										.5-6"	2-12"		3-14"
Weed Density, Unit										36 YD2	36 YD2		45 YD2
Assessed By									VMD+VAM	VMD+VAM	VMD+VAM	VMD+VAM	VMD+VAM
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	1	2	3	4	5
18	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B	204					
	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B	408					
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	607					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	711					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B						
								Mean =	.	.	.	.	.
19	Untreated							205	0	0	0	0	0
								413	0	0	0	0	0
								510	0	0	0	0	0
								814	0	0	0	0	0
								Mean =	0	0	0	0	0
20	NUP 3C 02	24	oz/a	24	oz/a	EAPOCR	A	206	0	70	90	0	70
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	304	0	78	95	5	85
								601	0	50	95	0	80
								710	0	68	95	0	78
								Mean =	0	67	94	1	78
21	NUP 10A 04	24	oz/a	24	fl oz/a	EAPOCR	A	207	0	70	88	0	80
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	305	0	25	80	5	65
								513	0	70	90	0	63
								713	0	60	90	0	50
								Mean =	0	56	87	1	65
22	NUP 10B 04	24	oz/a	24	fl oz/a	EAPOCR	A	208	0	40	80	5	60
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	412	0	20	90	0	35
								602	0	40	90	0	80
								802	0	70	90	0	70
								Mean =	0	43	88	1	61
23	NUP 1G 05	24	oz/a	24	fl oz/a	EAPOCR	A	209	0	50	85	0	70
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	310	0	48	80	5	68
								503	0	50	85	0	75
								810	0	90	95	5	80
								Mean =	0	60	86	3	73
24	NUP 4U 05	24	oz/a	24	fl oz/a	EAPOCR	A	210	0	45	90	0	60
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	414	0	50	90	0	75
								506	0	15	90	0	50
								813	0	60	90	0	70
								Mean =	0	43	90	0	64
25	NUP 12A 04	24	oz/a	24	fl oz/a	EAPOCR	A	211	0	15	95	0	40
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	411	0	25	95	0	25
								508	0	40	95	10	63
								714	0	40	90	0	30
								Mean =	0	30	94	3	40
26	NUP 3G 05	24	oz/a	24	fl oz/a	EAPOCR	A	212	0	0	70	0	50
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	311	0	0	76	0	50
								512	0	8	90	0	15
								708	0	26	90	5	75
								Mean =	0	9	82	1	48

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Weed Code										GLXMA	ERICA	PANDI	GLXMA	ERICA
Crop Code										GLXMA			GLXMA	
Part Rated										PLAQUA C	PLAQUA P	PLAQUA P	PLAQUA C	PLAQUA P
Rating Data Type										PHYGEN	Efficacy	Efficacy	PHYGEN	Efficacy
Rating Unit										%	%	%	%	%
Rating Date										14/Jun/2005	14/Jun/2005	14/Jun/2005	23/Jun/2005	23/Jun/2005
Crop Stage										V2 5"			V3-V4 6"	
Crop Stage Scale										DESC				
Weed Stage											.5-6"	2-12"		3-14"
Weed Density, Unit											36 YD2	36 YD2		45 YD2
Assessed By										VMD+VAM	VMD+VAM	VMD+VAM	VMD+VAM	VMD+VAM
Trt	Treatment	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot		1	2	3	4	5
27	NUP 3E 05	24	oz/a	24	fl oz/a	EAPOCR	A	213	0	40	90	0	73	
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	401	0	55	90	0	70	
								609	0	25	90	0	50	
								706	0	58	95	5	75	
								Mean =	0	45	91	1	67	
28	Untreated							214	0	0	0	0	0	
								403	0	0	0	0	0	
								511	0	0	0	0	0	
								702	0	0	0	0	0	
								Mean =	0	0	0	0	0	

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Weed Code									PANDI	GLXMA	ERICA	PANDI	GLXMA
Crop Code									PLAQUA P	PLAQUA C	PLAQUA P	PLAQUA P	PLAQUA C
Part Rated									Efficacy	PHYGEN	Efficacy	Efficacy	PHYGEN
Rating Data Type									%	%	%	%	%
Rating Unit									23/Jun/2005	30/Jun/2005	30/Jun/2005	30/Jun/2005	7/Jul/2005
Rating Date										V7-V8 12			
Crop Stage													
Crop Stage Scale													
Weed Stage									5-14"		4-16"	4-18"	
Weed Density, Unit									72 YD2		45 YD2	72 YD2	
Assessed By									VMD+VAM				
Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	6	7	8	9	10
1	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B	101					0
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	405					0
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	514					0
								811					0
								Mean =	.	.	.	.	0
2	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B	102					0
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	303					0
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	505					0
								803					0
								Mean =	.	.	.	.	0
3	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	103					0
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	314					0
								501					0
								707					0
								Mean =	.	.	.	.	0
4	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B	104					5
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	410					0
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	610					0
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	807					0
								Mean =	.	.	.	.	1
5	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B	105					5
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	409					0
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	614					0
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	806					0
								Mean =	.	.	.	.	1
6	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B	106					0
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	302					0
								507					0
								805					0
								Mean =	.	.	.	.	0
7	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B	107					0
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	312					0
								502					0
								808					0
								Mean =	.	.	.	.	0
8	Untreated check							108	0*	0*	0*	0*	0
								407	0	0	0	0	0
								603	0	0	0	0	0
								804	0	0	0	0	0
								Mean =	0	0	0	0	0
9	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B	109					0
	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B	402					0
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	509					0
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	801					0
								Mean =	.	.	.	.	0

# Purdue University

Weed Code									PANDI	GLXMA	ERICA	PANDI	GLXMA
Crop Code									PLAQUA P	PLAQUA C	PLAQUA P	PLAQUA P	PLAQUA C
Part Rated									Efficacy	PHYGEN	Efficacy	Efficacy	PHYGEN
Rating Data Type									%	%	%	%	%
Rating Unit									23/Jun/2005	30/Jun/2005	30/Jun/2005	30/Jun/2005	7/Jul/2005
Rating Date										V7-V8 12			
Crop Stage													
Crop Stage Scale													
Weed Stage									5-14"		4-16"	4-18"	
Weed Density, Unit									72 YD2		45 YD2	72 YD2	
Assessed By									VMD+VAM				
Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	6	7	8	9	10
10	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B	110					0
	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B	301					5
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	611					0
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	709					0
	Mean =								.	.	.	.	1
11	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B	111					0
	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B	306					0
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	504					0
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	703					0
	Mean =								.	.	.	.	0
12	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B	112					0
	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B	406					0
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	604					0
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	712					0
	Mean =								.	.	.	.	0
13	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B	113					0
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	313					0
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	606					0
								809					0
	Mean =								.	.	.	.	0
14	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B	114					0
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	309					0
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	605					0
								812					0
	Mean =								.	.	.	.	0
15	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B	201					0
	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B	404					0
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	613					5
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	701					0
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B						
	Mean =								.	.	.	.	1
16	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B	202					5
	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B	308					0
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	612					0
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	704					0
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B						
	Mean =								.	.	.	.	1
17	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B	203					0
	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B	307					0
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	608					0
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	705					0
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B						
	Mean =								.	.	.	.	0

# Purdue University

Weed Code									PANDI	GLXMA	ERICA	PANDI	GLXMA
Crop Code									PLAQUA P	PLAQUA C	PLAQUA P	PLAQUA P	PLAQUA C
Part Rated									Efficacy	PHYGEN	Efficacy	Efficacy	PHYGEN
Rating Data Type									%	%	%	%	%
Rating Unit									23/Jun/2005	30/Jun/2005	30/Jun/2005	30/Jun/2005	7/Jul/2005
Rating Date										V7-V8 12			
Crop Stage													
Crop Stage Scale													
Weed Stage									5-14"		4-16"	4-18"	
Weed Density, Unit									72 YD2		45 YD2	72 YD2	
Assessed By									VMD+VAM				
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	6	7	8	9	10
18	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B	204					0
	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B	408					0
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	607					0
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	711					0
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B						
								Mean =	.	.	.	.	0
19	Untreated							205	0	0	0	0	0
								413	0	0	0	0	0
								510	0	0	0	0	0
								814	0	0	0	0	0
								Mean =	0	0	0	0	0
20	NUP 3C 02	24	oz/a	24	oz/a	EAPOCR	A	206	100	0	75	100	0
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	304	100	10	85	100	0
								601	100	5	80	100	0
								710	100	0	75	100	0
								Mean =	100	4	79	100	0
21	NUP 10A 04	24	oz/a	24	fl oz/a	EAPOCR	A	207	100	0	75	100	0
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	305	100	0	70	100	0
								513	100	0	70	100	0
								713	100	0	40	100	0
								Mean =	100	0	64	100	0
22	NUP 10B 04	24	oz/a	24	fl oz/a	EAPOCR	A	208	100	0	65	100	0
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	412	100	0	30	100	0
								602	100	5	80	100	0
								802	100	0	75	100	0
								Mean =	100	1	63	100	0
23	NUP 1G 05	24	oz/a	24	fl oz/a	EAPOCR	A	209	100	0	60	100	0
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	310	100	0	75	100	0
								503	100	0	80	100	0
								810	100	15	80	100	0
								Mean =	100	4	74	100	0
24	NUP 4U 05	24	oz/a	24	fl oz/a	EAPOCR	A	210	100	0	60	100	0
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	414	100	0	70	100	0
								506	100	0	60	100	0
								813	100	0	55	100	0
								Mean =	100	0	61	100	0
25	NUP 12A 04	24	oz/a	24	fl oz/a	EAPOCR	A	211	100	0	20	100	0
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	411	100	0	25	100	0
								508	100	10	60	100	0
								714	100	0	30	100	0
								Mean =	100	3	34	100	0
26	NUP 3G 05	24	oz/a	24	fl oz/a	EAPOCR	A	212	100	0	40	100	0
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	311	100	0	50	100	0
								512	100	0	25	100	0
								708	95	5	70	100	0
								Mean =	99	1	46	100	0

# Purdue University

Weed Code									PANDI	GLXMA	ERICA	PANDI	GLXMA
Crop Code									PLAQUA P	PLAQUA C	PLAQUA P	PLAQUA P	PLAQUA C
Part Rated									Efficacy	PHYGEN	Efficacy	Efficacy	PHYGEN
Rating Data Type									%	%	%	%	%
Rating Unit									23/Jun/2005	30/Jun/2005	30/Jun/2005	30/Jun/2005	7/Jul/2005
Rating Date										V7-V8 12			
Crop Stage													
Crop Stage Scale									5-14"		4-16"	4-18"	
Weed Stage									72 YD2		45 YD2	72 YD2	
Weed Density, Unit									VMD+VAM				
Assessed By													
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	6	7	8	9	10
27	NUP 3E 05	24	oz/a	24	fl oz/a	EAPOCR	A	213	100	0	65	100	0
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	401	100	0	75	100	0
								609	100	5	40	100	0
								706	100	10	75	100	0
								Mean =	100	4	64	100	0
28	Untreated							214	0	0	0	0	0
								403	0	0	0	0	0
								511	0	0	0	0	0
								702	0	0	0	0	0
								Mean =	0	0	0	0	0

# Purdue University

Weed Code									ERICA	PANDI	GLXMA	ERICA	ERICA
Crop Code									PLAQUA P	PLAQUA P	PLAQUA C	PLAQUA P	
Part Rated									Efficacy	Efficacy	PHYGEN	Efficacy	Efficacy
Rating Data Type									%	%	%	%	%
Rating Unit									7/Jul/2005	7/Jul/2005	14/Jul/2005	14/Jul/2005	7/Oct/2005
Rating Date											R1		
Crop Stage											12-16"		
Crop Stage Scale									2-24"	4-12"		2-24"	6'
Weed Stage									56 YD2	99 YD2		13 YD2	10 YD2
Weed Density, Unit													VMD/WGJ
Assessed By													
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	11	12	13	14	15
1	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B	101	50	10	0	75	70
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	405	40	5	10	65	45*
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	514	40	10	0	75	45*
								811	35	15	0	40	20
Mean =									41	10	3	64	45
2	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B	102	50	10	0	70	90
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	303	50	10	4*	80	90*
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	505	40	0	5	80	90*
								803	50	5	0	0	90*
Mean =									48	6	2	58	90
3	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	103	0	5	0	0	0
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	314	0	0	0	0	0
								501	5	5	10	0	0
								707	10	5	15	0	0
Mean =									4	4	6	0	0
4	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B	104	60	10	0	60	65
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	410	35	10	15	60	65*
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	610	50	5	10	85	65*
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	807	40	10	15	74*	65*
Mean =									46	9	10	70	65
5	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B	105	60	10	0	70	80
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	409	40	10	20	40	80*
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	614	45	5	10	65	80*
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	806	45	5	0	80	80*
Mean =									48	8	8	64	80
6	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B	106	20	98	0	40	40
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	302	30	100	4*	45	30
								507	17	100	0	40	25
								805	25	100	5	60	60
Mean =									23	100	2	46	39
7	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B	107	10	100	0	60	55
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	312	25	100	15	20	20
								502	30	100	0	70	83
								808	25	100	18	50	50
Mean =									23	100	8	50	52
8	Untreated check							108	0	0	25	0	45
								407	0	0	20	0	0
								603	0	0	0	15	23*
								804	0	0	5	90	23*
Mean =									0	0	13	26	23
9	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B	109	75	100	15	40	60
	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B	402	37	100	5	70	80
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	509	50	100	12	65	85
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	801	50	100	5	80	78
Mean =									53	100	9	64	76

# Purdue University

Weed Code									ERICA	PANDI	GLXMA	ERICA	ERICA
Crop Code									PLAQUA P	PLAQUA P	PLAQUA C	PLAQUA P	
Part Rated									Efficacy	Efficacy	PHYGEN	Efficacy	Efficacy
Rating Data Type									%	%	%	%	%
Rating Unit									7/Jul/2005	7/Jul/2005	14/Jul/2005	14/Jul/2005	7/Oct/2005
Rating Date											R1		
Crop Stage											12-16"		
Crop Stage Scale												2-24"	6'
Weed Stage									2-24"	4-12"		2-24"	
Weed Density, Unit									56 YD2	99 YD2		13 YD2	10 YD2
Assessed By													VMD/WGJ
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	11	12	13	14	15
10	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B	110	60	100	10	40	70
	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B	301	50	100	8*	60	80
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	611	35	100	5	45	85
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	709	45	100	0	55	83
								Mean =	48	100	6	50	80
11	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B	111	60	100	0	35	45
	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B	306	50	100	15	45	65
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	504	50	100	0	90	88
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	703	40	100	0	90	93
								Mean =	50	100	4	65	73
12	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B	112	40	100	0	30	70
	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B	406	43	100	5	20	78
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	604	60	100	0	80	95
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	712	30	100	10	25	65
								Mean =	43	100	4	39	77
13	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B	113	10	100	0	20	40
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	313	10	100	15	60	40
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	606	25	100	0	45	60
								809	10	100	0	30	30
								Mean =	14	100	4	39	43
14	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B	114	15	100	0	20	50
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	309	15	100	0	15	22
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B	605	30	100	0	35	65
								812	23	100	5	20	30
								Mean =	21	100	1	23	42
15	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B	201	60	100	9*	66*	92*
	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B	404	45	100	0	80	95
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	613	40	100	15	70	95
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	701	50	100	10	80	85
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B						
								Mean =	49	100	8	74	92
16	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B	202	60	100	14*	53*	80*
	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B	308	40	100	20	60	58
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	612	30	100	20	45	85
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	704	60	100	0	85	98
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B						
								Mean =	48	100	13	61	80
17	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B	203	40	100	20	30	45
	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B	307	40	100	25	40	50
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	608	40	100	0	55	55
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	705	45	100	0	75	88
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B						
								Mean =	41	100	11	50	60

# Purdue University

Weed Code									ERICA	PANDI	GLXMA	ERICA	ERICA
Crop Code									PLAQUA P	PLAQUA P	PLAQUA C	PLAQUA P	
Part Rated									Efficacy	Efficacy	PHYGEN	Efficacy	Efficacy
Rating Data Type									%	%	%	%	%
Rating Unit									7/Jul/2005	7/Jul/2005	14/Jul/2005	14/Jul/2005	7/Oct/2005
Rating Date											R1		
Crop Stage											12-16"		
Crop Stage Scale												2-24"	6'
Weed Stage									2-24"	4-12"		2-24"	
Weed Density, Unit									56 YD2	99 YD2		13 YD2	10 YD2
Assessed By													VMD/WGJ
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	11	12	13	14	15
18	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B	204	50	100	20	40	70
	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B	408	50	100	5	65	88
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B	607	45	100	5	50	80
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B	711	35	100	10	30	85
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B						
								Mean =	45	100	10	46	81
19	Untreated							205	0	0	20	0	0
								413	0	0	0	0	0
								510	0	0	0	0	0
								814	0	0	10	0	0
								Mean =	0	0	8	0	0
20	NUP 3C 02	24	oz/a	24	oz/a	EAPOCR	A	206	80	100	0	65	40
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	304	85	100	0	70	55
								601	90	100	0	85	65
								710	50	100	0	70	60
								Mean =	76	100	0	73	55
21	NUP 10A 04	24	oz/a	24	fl oz/a	EAPOCR	A	207	90	100	0	65	60
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	305	65	100	0	40	55
								513	65	100	0	65	45
								713	30	100	0	65	30
								Mean =	63	100	0	59	48
22	NUP 10B 04	24	oz/a	24	fl oz/a	EAPOCR	A	208	55	100	10	40	30
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	412	40	100	5	35	95
								602	70	100	0	75	70
								802	55	100	0	80	63
								Mean =	55	100	4	58	65
23	NUP 1G 05	24	oz/a	24	fl oz/a	EAPOCR	A	209	80	100	0	60	45
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	310	80	100	0	75	60
								503	65	100	0	85	70
								810	75	100	0	75	40
								Mean =	75	100	0	74	54
24	NUP 4U 05	24	oz/a	24	fl oz/a	EAPOCR	A	210	60	100	0	40	45
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	414	85	100	0	65	50
								506	50	100	0	80	65
								813	35	100	5	60	40
								Mean =	58	100	1	61	50
25	NUP 12A 04	24	oz/a	24	fl oz/a	EAPOCR	A	211	20	100	0	20	0
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	411	25	100	10	70	25
								508	40	100	15	50	33
								714	20	100	0	20	15
								Mean =	26	100	6	40	18
26	NUP 3G 05	24	oz/a	24	fl oz/a	EAPOCR	A	212	35	100	0	30	20
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	311	50	100	0	40	20
								512	30	100	0	40	38
								708	33	95	0	65	50
								Mean =	37	99	0	44	32

# Purdue University

Weed Code									ERICA	PANDI	GLXMA	ERICA	ERICA
Crop Code									PLAQUA P	PLAQUA P	PLAQUA C	PLAQUA P	
Part Rated									Efficacy	Efficacy	PHYGEN	Efficacy	Efficacy
Rating Data Type									%	%	%	%	%
Rating Unit									7/Jul/2005	7/Jul/2005	14/Jul/2005	14/Jul/2005	7/Oct/2005
Rating Date											R1		
Crop Stage											12-16"		
Crop Stage Scale									2-24"	4-12"		2-24"	6'
Weed Stage									56 YD2	99 YD2		13 YD2	10 YD2
Weed Density, Unit													VMD/WGJ
Assessed By													
Trt	Treatment	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	Plot	11	12	13	14	15
27	NUP 3E 05	24	oz/a	24	fl oz/a	EAPOCR	A	213	85	100	0	60	30
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A	401	50	100	0	50	55
								609	30	95	10	45	35
								706	40	100	0	50	53
								Mean =	51	99	3	51	43
28	Untreated							214	0	0	20	0	0
								403	0	0	10	0	0
								511	0	0	0	0	0
								702	0	0	5	10	0
								Mean =	0	0	9	3	0

# Purdue University

## Glyphosate Resistant Horseweed Efficacy - Postemergence Soybean Treatments

Trial ID: 04-SEPAC-GRH-SPST  
 Location: SEPAC

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

Weed Code								GLXMA	ERICA	PANDI	GLXMA	ERICA
Crop Code								GLXMA	ERICA	PANDI	GLXMA	ERICA
Part Rated								PLAQUA C	PLAQUA P	PLAQUA P	PLAQUA C	PLAQUA P
Rating Data Type								PHYGEN	Efficacy	Efficacy	PHYGEN	Efficacy
Rating Unit								%	%	%	%	%
Rating Date								14/Jun/2005	14/Jun/2005	14/Jun/2005	23/Jun/2005	23/Jun/2005
Crop Stage								V2 5"			V3-V4 6"	
Crop Stage Scale								DESC				
Weed Stage									.5-6"	2-12"		3-14"
Weed Density, Unit									36 YD2	36 YD2		45 YD2
Assessed By								VMD+VAM	VMD+VAM	VMD+VAM	VMD+VAM	VMD+VAM
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4	5
1	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
2	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
3	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
4	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B					
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
5	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B					
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
6	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
7	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
8	Untreated check							0 a	0 d	0 d	0 a	0 d
9	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B					
	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
10	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B					
	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
11	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B					
	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
12	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B					
	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					

# Purdue University

Weed Code							GLXMA	ERICA	PANDI	GLXMA	ERICA	
Crop Code							GLXMA	ERICA	PANDI	GLXMA	ERICA	
Part Rated							PLAQUA C	PLAQUA P	PLAQUA P	PLAQUA C	PLAQUA P	
Rating Data Type							PHYGEN	Efficacy	Efficacy	PHYGEN	Efficacy	
Rating Unit							%	%	%	%	%	
Rating Date							14/Jun/2005	14/Jun/2005	14/Jun/2005	23/Jun/2005	23/Jun/2005	
Crop Stage							V2 5"			V3-V4 6"		
Crop Stage Scale							DESC					
Weed Stage								.5-6"	2-12"		3-14"	
Weed Density, Unit								36 YD2	36 YD2		45 YD2	
Assessed By							VMD+VAM	VMD+VAM	VMD+VAM	VMD+VAM	VMD+VAM	
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4	5
13	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B					
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
14	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B					
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
15	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B					
	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B					
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
16	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B					
	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B					
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
17	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B					
	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B					
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
18	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B					
	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B					
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
19	Untreated							0 a	0 d	0 d	0 a	0 d
20	NUP 3C 02	24	oz/a	24	oz/a	EAPOCR	A	0 a	67 a	94 a	1 a	78 a
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A					
21	NUP 10A 04	24	oz/a	24	fl oz/a	EAPOCR	A	0 a	56 ab	87 bc	1 a	65 ab
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A					
22	NUP 10B 04	24	oz/a	24	fl oz/a	EAPOCR	A	0 a	43 bc	88 b	1 a	61 ab
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A					
23	NUP 1G 05	24	oz/a	24	fl oz/a	EAPOCR	A	0 a	60 ab	86 bc	3 a	73 a
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A					
24	NUP 4U 05	24	oz/a	24	fl oz/a	EAPOCR	A	0 a	43 bc	90 ab	0 a	64 ab
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A					
25	NUP 12A 04	24	oz/a	24	fl oz/a	EAPOCR	A	0 a	30 c	94 a	3 a	40 c
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A					
26	NUP 3G 05	24	oz/a	24	fl oz/a	EAPOCR	A	0 a	9 d	82 c	1 a	48 bc
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A					

# Purdue University

Weed Code								GLXMA	ERICA	PANDI	GLXMA	ERICA
Crop Code								GLXMA			GLXMA	
Part Rated								PLAQUA C	PLAQUA P	PLAQUA P	PLAQUA C	PLAQUA P
Rating Data Type								PHYGEN	Efficacy	Efficacy	PHYGEN	Efficacy
Rating Unit								%	%	%	%	%
Rating Date								14/Jun/2005	14/Jun/2005	14/Jun/2005	23/Jun/2005	23/Jun/2005
Crop Stage								V2 5"			V3-V4 6"	
Crop Stage Scale								DESC				
Weed Stage									.5-6"	2-12"		3-14"
Weed Density, Unit									36 YD2	36 YD2		45 YD2
Assessed By								VMD+VAM	VMD+VAM	VMD+VAM	VMD+VAM	VMD+VAM
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4	5
27	NUP 3E 05 AMS	24 17	oz/a lb ai/100 gal	24 17	fl oz/a lb ai/100 gal	EAPOCR EAPOCR	A A	0 a	45 bc	91 ab	1 a	67 a
28	Untreated							0 a	0 d	0 d	0 a	0 d
LSD (P=.05)								0.0	19.3	5.9	3.7	19.1
Standard Deviation								0.0	13.4	4.1	2.5	13.2
CV								0.0	41.94	6.34	248.62	29.27
Grand Mean								0.0	31.84	64.64	1.02	45.02
Bartlett's X2								0.0	2.616	10.539	3.073	9.696
P(Bartlett's X2)								.	0.918	0.104	0.80	0.206
Replicate F								0.000	3.465	2.758	0.322	0.352
Replicate Prob(F)								1.0000	0.0289	0.0602	0.8092	0.7882
Treatment F								0.000	14.669	413.997	0.545	21.809
Treatment Prob(F)								1.0000	0.0001	0.0001	0.8437	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# Purdue University

Weed Code							PANDI	GLXMA	ERICA	PANDI	GLXMA	
Crop Code							PLAQUA P	PLAQUA C	PLAQUA P	PLAQUA P	PLAQUA C	
Part Rated							Efficacy	PHYGEN	Efficacy	Efficacy	PHYGEN	
Rating Data Type							%	%	%	%	%	
Rating Unit							23/Jun/2005	30/Jun/2005	30/Jun/2005	30/Jun/2005	7/Jul/2005	
Rating Date								V7-V8 12				
Crop Stage									4-16"	4-18"		
Crop Stage Scale									45 YD2	72 YD2		
Weed Stage												
Weed Density, Unit							5-14"					
Assessed By							72 YD2					
							VMD+VAM					
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	6	7	8	9	10
1	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B					0 a
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
2	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B					0 a
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
3	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B					0 a
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
4	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B					1 a
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
5	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B					1 a
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
6	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B					0 a
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
7	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B					0 a
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
8	Untreated check							0 c	0 a	0 d	0 b	0 a
9	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B					0 a
	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
10	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B					1 a
	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
11	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B					0 a
	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
12	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B					0 a
	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
13	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B					0 a
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					

# Purdue University

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Crop Stage Crop Stage Scale Weed Stage Weed Density, Unit Assessed By							PANDI PLAQUA P Efficacy % 23/Jun/2005  5-14" 72 YD2 VMD+VAM	GLXMA PLAQUA C PHYGEN % 30/Jun/2005 V7-V8 12	ERICA PLAQUA P Efficacy % 30/Jun/2005  4-16" 45 YD2	PANDI PLAQUA P Efficacy % 30/Jun/2005  4-18" 72 YD2	GLXMA PLAQUA C PHYGEN % 7/Jul/2005	
Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Unit	Grow Stg	Appl Code	6	7	8	9	10
14	Roundup Weathermax 2,4-DB Ester AMS	1.16 0.0312 2.5	lb ae/a lb ae/a lb ai/a	33 2 2.5	oz/a oz/a lb ai/a	LAPOWE LAPOWE LAPOWE	B B B					0 a
15	Roundup Weathermax Classic 2,4-DB Ester Crop Oil Conc AMS	0.77 0.0078 0.0312 1 2.5	lb ae/a lb ai/a lb ae/a % v/v lb ai/a	22 0.5 2 1 2.5	oz/a oz/a oz/a % v/v lb ai/a	LAPOWE LAPOWE LAPOWE LAPOWE LAPOWE	B B B B B					1 a
16	Roundup Weathermax Classic 2,4-DB Ester Crop Oil Conc AMS	1.16 0.0078 0.0312 1 2.5	lb ae/a lb ai/a lb ae/a % v/v lb ai/a	33 0.5 2 1 2.5	oz/a oz/a oz/a % v/v lb ai/a	LAPOWE LAPOWE LAPOWE LAPOWE LAPOWE	B B B B B					1 a
17	Roundup Weathermax FirstRate 2,4-DB Ester Crop Oil Conc AMS	0.77 0.0157 0.0312 1 2.5	lb ae/a lb ai/a lb ae/a % v/v lb ai/a	22 0.3 2 1 2.5	oz/a oz/a oz/a % v/v lb ai/a	LAPOWE LAPOWE LAPOWE LAPOWE LAPOWE	B B B B B					0 a
18	Roundup Weathermax FirstRate 2,4-DB Ester Crop Oil Conc AMS	1.16 0.0157 0.0312 1 2.5	lb ae/a lb ai/a lb ae/a % v/v lb ai/a	33 0.3 2 1 2.5	oz/a oz/a oz/a % v/v lb ai/a	LAPOWE LAPOWE LAPOWE LAPOWE LAPOWE	B B B B B					0 a
19	Untreated							0 c	0 a	0 d	0 b	0 a
20	NUP 3C 02 AMS	24 17	oz/a lb ai/100 gal	24 17	oz/a lb ai/100 gal	EAPOCR EAPOCR	A A	100 a	4 a	79 a	100 a	0 a
21	NUP 10A 04 AMS	24 17	oz/a lb ai/100 gal	24 17	fl oz/a lb ai/100 gal	EAPOCR EAPOCR	A A	100 a	0 a	64 ab	100 a	0 a
22	NUP 10B 04 AMS	24 17	oz/a lb ai/100 gal	24 17	fl oz/a lb ai/100 gal	EAPOCR EAPOCR	A A	100 a	1 a	63 ab	100 a	0 a
23	NUP 1G 05 AMS	24 17	oz/a lb ai/100 gal	24 17	fl oz/a lb ai/100 gal	EAPOCR EAPOCR	A A	100 a	4 a	74 a	100 a	0 a
24	NUP 4U 05 AMS	24 17	oz/a lb ai/100 gal	24 17	fl oz/a lb ai/100 gal	EAPOCR EAPOCR	A A	100 a	0 a	61 ab	100 a	0 a
25	NUP 12A 04 AMS	24 17	oz/a lb ai/100 gal	24 17	fl oz/a lb ai/100 gal	EAPOCR EAPOCR	A A	100 a	3 a	34 c	100 a	0 a
26	NUP 3G 05 AMS	24 17	oz/a lb ai/100 gal	24 17	fl oz/a lb ai/100 gal	EAPOCR EAPOCR	A A	99 b	1 a	46 bc	100 a	0 a
27	NUP 3E 05 AMS	24 17	oz/a lb ai/100 gal	24 17	fl oz/a lb ai/100 gal	EAPOCR EAPOCR	A A	100 a	4 a	64 ab	100 a	0 a

# Purdue University

Weed Code							PANDI	GLXMA	ERICA	PANDI	GLXMA	
Crop Code							PLAQUA P	PLAQUA C	PLAQUA P	PLAQUA P	PLAQUA C	
Part Rated							Efficacy	PHYGEN	Efficacy	Efficacy	PHYGEN	
Rating Data Type							%	%	%	%	%	
Rating Unit							23/Jun/2005	30/Jun/2005	30/Jun/2005	30/Jun/2005	7/Jul/2005	
Rating Date								V7-V8 12				
Crop Stage												
Crop Stage Scale												
Weed Stage							5-14"		4-16"	4-18"		
Weed Density, Unit							72 YD2		45 YD2	72 YD2		
Assessed By							VMD+VAM					
Trt	Treatment	Rate	Product	Product	Grow	Appl						
No.	Name	Rate	Unit	Rate	Rate Unit	Stg	Code					
28	Untreated							6	7	8	9	10
								0 c	0 a	0 d	0 b	0 a
LSD (P=.05)							1.1	5.1	19.9	0.0	1.5	
Standard Deviation							0.8	3.6	13.8	0.0	1.1	
CV							1.06	240.82	31.37	0.0	470.94	
Grand Mean							72.62	1.48	43.98	72.73	0.22	
Bartlett's X2							0.0	4.996	9.553	0.0	0.0	
P(Bartlett's X2)							.	0.416	0.215	.	1.00	
Replicate F							0.985	1.362	0.154	0.000	1.279	
Replicate Prob(F)							0.4136	0.2740	0.9261	1.0000	0.2871	
Treatment F							14807.200	0.871	19.825	0.000	0.860	
Treatment Prob(F)							0.0001	0.5694	0.0001	1.0000	0.6618	

Means followed by same letter do not significantly differ (P=.05, LSD)  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

# Purdue University

Weed Code Crop Code Part Rated Rating Data Type Rating Unit Rating Date Crop Stage Crop Stage Scale Weed Stage Weed Density, Unit Assessed By							ERICA PLAQUA P Efficacy % 7/Jul/2005  2-24" 56 YD2	PANDI PLAQUA P Efficacy % 7/Jul/2005  4-12" 99 YD2	GLXMA PLAQUA C PHYGEN % 14/Jul/2005 R1 12-16"	ERICA PLAQUA P Efficacy % 14/Jul/2005  2-24" 13 YD2	ERICA Efficacy % 7/Oct/2005  6' 10 YD2 VMD/WGJ
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg Appl Code	11	12	13	14	15
1	Classic Crop Oil Conc AMS	0.0078 1 2.5	lb ai/a % v/v lb ai/a	0.5 1 2.5	oz/a % v/v lb ai/a	LAPOWE B LAPOWE B LAPOWE B	41 def	10 b	3 a	64 a-d	45 e-h
2	FirstRate Crop Oil Conc AMS	0.0157 1 2.5	lb ai/a % v/v lb ai/a	0.3 1 2.5	oz/a % v/v lb ai/a	LAPOWE B LAPOWE B LAPOWE B	48 b-e	6 d	2 a	58 a-d	90 a
3	2,4-DB Ester AMS	0.0312 2.5	lb ae/a lb ai/a	2 2.5	oz/a lb ai/a	LAPOWE B LAPOWE B	4 i	4 e	6 a	0 h	0 k
4	Classic 2,4-DB Ester Crop Oil Conc AMS	0.0078 0.0312 1 2.5	lb ai/a lb ae/a % v/v lb ai/a	0.5 2 1 2.5	oz/a oz/a % v/v lb ai/a	LAPOWE B LAPOWE B LAPOWE B LAPOWE B	46 cde	9 bc	10 a	70 ab	65 b-e
5	FirstRate 2,4-DB Ester Crop Oil Conc AMS	0.0157 0.0312 1 2.5	lb ai/a lb ae/a % v/v lb ai/a	0.3 2 1 2.5	oz/a oz/a % v/v lb ai/a	LAPOWE B LAPOWE B LAPOWE B LAPOWE B	48 b-e	8 cd	8 a	64 a-d	80 ab
6	Roundup Weathermax AMS	0.77 2.5	lb ae/a lb ai/a	22 2.5	oz/a lb ai/a	LAPOWE B LAPOWE B	23 gh	100 a	2 a	46 b-f	39 gj
7	Roundup Weathermax AMS	1.16 2.5	lb ae/a lb ai/a	33 2.5	oz/a lb ai/a	LAPOWE B LAPOWE B	23 gh	100 a	8 a	50 a-e	52 d-h
8	Untreated check						0 i	0 f	13 a	26 efg	23 ij
9	Roundup Weathermax Classic Crop Oil Conc AMS	0.77 0.0078 1 2.5	lb ae/a lb ai/a % v/v lb ai/a	22 0.5 1 2.5	oz/a oz/a % v/v lb ai/a	LAPOWE B LAPOWE B LAPOWE B LAPOWE B	53 bcd	100 a	9 a	64 a-d	76 abc
10	Roundup Weathermax Classic Crop Oil Conc AMS	1.16 0.0078 1 2.5	lb ae/a lb ai/a % v/v lb ai/a	33 0.5 1 2.5	oz/a oz/a % v/v lb ai/a	LAPOWE B LAPOWE B LAPOWE B LAPOWE B	48 b-e	100 a	6 a	50 a-e	80 ab
11	Roundup Weathermax FirstRate Crop Oil Conc AMS	0.77 0.0157 1 2.5	lb ae/a lb ai/a % v/v lb ai/a	22 0.3 1 2.5	oz/a oz/a % v/v lb ai/a	LAPOWE B LAPOWE B LAPOWE B LAPOWE B	50 b-e	100 a	4 a	65 abc	73 a-d
12	Roundup Weathermax FirstRate Crop Oil Conc AMS	1.16 0.0157 1 2.5	lb ae/a lb ai/a % v/v lb ai/a	33 0.3 1 2.5	oz/a oz/a % v/v lb ai/a	LAPOWE B LAPOWE B LAPOWE B LAPOWE B	43 cde	100 a	4 a	39 def	77 ab
13	Roundup Weathermax 2,4-DB Ester AMS	0.77 0.0312 2.5	lb ae/a lb ae/a lb ai/a	22 2 2.5	oz/a oz/a lb ai/a	LAPOWE B LAPOWE B LAPOWE B	14 hi	100 a	4 a	39 def	43 ghi

## Purdue University

Weed Code							ERICA	PANDI	GLXMA PLAQUA C PHYGEN %	ERICA	ERICA	
Crop Code							PLAQUA P	PLAQUA P	PLAQUA C	PLAQUA P	ERICA	
Part Rated							Efficacy	Efficacy	PHYGEN	Efficacy	Efficacy	
Rating Data Type							%	%	%	%	%	
Rating Unit							7/Jul/2005	7/Jul/2005	14/Jul/2005	14/Jul/2005	7/Oct/2005	
Rating Date									R1			
Crop Stage									12-16"			
Crop Stage Scale							2-24"	4-12"		2-24"	6'	
Weed Stage							56 YD2	99 YD2		13 YD2	10 YD2	
Weed Density, Unit											VMD/WGJ	
Assessed By												
Trt No.	Treatment Name	Rate	Rate Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code	11	12	13	14	15
14	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B	21 h	100 a	1 a	23 fgh	42 ghi
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
15	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B	49 b-e	100 a	8 a	74 a	92 a
	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B					
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
16	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B	48 b-e	100 a	13 a	61 a-d	80 ab
	Classic	0.0078	lb ai/a	0.5	oz/a	LAPOWE	B					
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
17	Roundup Weathermax	0.77	lb ae/a	22	oz/a	LAPOWE	B	41 def	100 a	11 a	50 a-e	60 b-g
	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B					
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
18	Roundup Weathermax	1.16	lb ae/a	33	oz/a	LAPOWE	B	45 cde	100 a	10 a	46 b-f	81 ab
	FirstRate	0.0157	lb ai/a	0.3	oz/a	LAPOWE	B					
	2,4-DB Ester	0.0312	lb ae/a	2	oz/a	LAPOWE	B					
	Crop Oil Conc	1	% v/v	1	% v/v	LAPOWE	B					
	AMS	2.5	lb ai/a	2.5	lb ai/a	LAPOWE	B					
19	Untreated							0 i	0 f	8 a	0 h	0 k
20	NUP 3C 02	24	oz/a	24	oz/a	EAPOCR	A	76 a	100 a	0 a	73 a	55 c-g
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A					
21	NUP 10A 04	24	oz/a	24	fl oz/a	EAPOCR	A	63 ab	100 a	0 a	59 a-d	48 e-h
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A					
22	NUP 10B 04	24	oz/a	24	fl oz/a	EAPOCR	A	55 bcd	100 a	4 a	58 a-d	65 b-f
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A					
23	NUP 1G 05	24	oz/a	24	fl oz/a	EAPOCR	A	75 a	100 a	0 a	74 a	54 d-g
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A					
24	NUP 4U 05	24	oz/a	24	fl oz/a	EAPOCR	A	58 bc	100 a	1 a	61 a-d	50 e-h
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A					
25	NUP 12A 04	24	oz/a	24	fl oz/a	EAPOCR	A	26 fgh	100 a	6 a	40 c-f	18 jk
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A					
26	NUP 3G 05	24	oz/a	24	fl oz/a	EAPOCR	A	37 efg	99 a	0 a	44 b-f	32 hij
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A					
27	NUP 3E 05	24	oz/a	24	fl oz/a	EAPOCR	A	51 b-e	99 a	3 a	51 a-e	43 f-i
	AMS	17	lb ai/100 gal	17	lb ai/100 gal	EAPOCR	A					

# Purdue University

Weed Code		ERICA	PANDI		ERICA	ERICA	
Crop Code				GLXMA			
Part Rated		PLAQUA P	PLAQUA P	PLAQUA C	PLAQUA P		
Rating Data Type		Efficacy	Efficacy	PHYGEN	Efficacy	Efficacy	
Rating Unit		%	%	%	%	%	
Rating Date		7/Jul/2005	7/Jul/2005	14/Jul/2005	14/Jul/2005	7/Oct/2005	
Crop Stage				R1			
Crop Stage Scale				12-16"			
Weed Stage		2-24"	4-12"		2-24"	6'	
Weed Density, Unit		56 YD2	99 YD2		13 YD2	10 YD2	
Assessed By						VMD/WGJ	
Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code
28	Untreated						
		11					
		12					
		13					
		14					
		15					
		0 i		0 f		9 a	3 gh
							0 k
LSD (P=.05)		15.7		2.3		9.8	26.0
Standard Deviation		11.1		1.6		6.9	18.4
CV		28.66		2.23		127.07	38.16
Grand Mean		38.69		72.62		5.44	48.15
Bartlett's X2		35.507		6.959		21.505	36.282
P(Bartlett's X2)		0.061		0.433		0.55	0.067
Replicate F		3.526		1.260		1.512	3.567
Replicate Prob(F)		0.0185		0.2938		0.2182	0.0178
Treatment F		14.783		2947.675		1.372	5.335
Treatment Prob(F)		0.0001		0.0001		0.1431	0.0001

Means followed by same letter do not significantly differ (P=.05, LSD)  
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.

Trial Comments