

# Purdue University

## Fall applied soybean herbicide evaluation at PPAC

Trial ID: 05F-PIP-NTS-08  
Location: PPAC

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:** Wanatah  
**State/Prov.:** IN  
**Postal Code:** 46390  
**Country:** USA  
**Unit:** x  
**Directions:** Trial is located just north of the weather station in field G-East.

### COOPERATOR/LANDOWNER

**Cooperator:** Pinney Purdue Agricultural Center **Country:** USA  
**Address 1:** 11402 South Co. Line Rd **Phone No:** 219-733-2379  
**City:** Wanatah **Fax No:** call first  
**State/Prov:** IN  
**Postal Code:** 46390

**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.	STEME	chickweed	Stellaria media
2.	LAMPU	purple deadnettle	Lamium purpureum

**Crop 1:** GLXMA SOYBEAN **Variety:** Becks 354NRR  
**Planting Date:** 9/May/2006 **Planting Method:** DRILLED  
**Rate:** 203000 S/A **Depth:** 1 IN  
**Row Spacing:** 7.5 IN  
**Soil Moisture:** NORMAL **Emergence Date:** 24/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.	Corn		2005

### SOIL DESCRIPTION

**% OM:** 5.8 **Texture:** SANDY SILT LOAM  
**pH:** 6.8  
**CEC:** 14.1 **Fert. Level:** EXCELLENT

### ADDITIONAL MEASURED ELEMENTS

Element	Quantity	Unit
Phosphorus	81	ppm
Potassium	267	ppm
Magnesium	480	ppm
Calcium	1800	ppm

# Purdue University

## APPLICATION DESCRIPTION

	A
Application Date:	1/Nov/2005
Time of Day:	8:30 am
Application Method:	SPRAY
Application Timing:	Fall BD
Applic. Placement:	BROFOL
Air Temp., Unit:	44 F
% Relative Humidity:	95
Wind Velocity, Unit:	1 MPH
Dew Presence (Y/N):	Y
Water Hardness:	Very Hard
Soil Temp., Unit:	44 F
Soil Moisture:	Moist
% Cloud Cover:	85

## CROP STAGE AT EACH APPLICATION

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

## WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	STEME 1-3"
Stage Scale:	runners
Density, Unit:	200 YD2
Weed 2 Code, Stage:	LAMPU 3-4"
Stage Scale:	4 nodes
Density, Unit:	75 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

No summer annual weeds emerged in the checks at uniform densities to rate. We rated the summer suppression of a natural pokeweed infestation, but the data is highly variable.

# Purdue University

## Fall applied soybean herbicide evaluation at PPAC

Trial ID: 05F-PIP-NTS-08  
 Location: PPAC

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

Weed Code								STEME	LAMPU	STEME	LAMPU	GLXMA	PHTAM
Crop Code								EFF	EFF	EFF	EFF	CI	
Rating Data Type								%	%	%	%	%	
Rating Unit								5/Apr/2006	5/Apr/2006	27/Apr/2006	27/Apr/2006	1/Jun/2006	23/Jun/2006
Rating Date												VC	
Crop Stage								BLM 1-6"	BLM 1-5"	3-9"seed	3-6"seed		6-36"
Weed Stage								50 YD2	4 YD2	50 YD2	4 YD2		4 PLOT
Weed Density, Unit								VMD + GN	VMD + GN	VMD + WGJ	WGJ + VMD	VMD	VM + EC
Assessed By								155 DA-A	155 DA-A	177 DA-A	177 DA-A	212 DA-A	234 DA-A
Trt-Eval Interval													
Trt No.	Treatment Name	Rate	Unit	Product Rate	Product Rate Unit	Grow Stg	Appl Code Plot	1	2	3	4	5	6
1	Non-treated check						101 209 320 403	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 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	80	80	85	85	0	0
	Authority	0.2	LB A/A	4.27	OZ/A	FALLBD A	217	98	100	100	100	0	25
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD A	312	100	100	100	100	0	75
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD A	401	100	100	100	98	0	100
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD A							
	Mean =							95	95	96	96	0	50
3	Pursuit	0.047	LB A/A	3	FL OZ/A	FALLBD A	103	100	95	100	98	0	75
	Authority	0.15	LB A/A	3.2	OZ/A	FALLBD A	216	100	100	100	100	0	50
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD A	317	100	100	100	100	0	0
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD A	420	100	100	98	100	0	75
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD A							
	Mean =							100	99	100	100	0	50
4	Scepter	0.122	LB A/A	2.8	OZ/A	FALLBD A	104	97	100	95	100	0	25
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD A	218	100	100	100	100	0	50
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD A	307	95	100	95	88	0	0
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD A	419	100	100	95	93	0	75
	Mean =							98	100	96	95	0	38
5	Scepter	0.122	LB A/A	2.8	OZ/A	FALLBD A	105	100	100	100	100	0	25
	Prowl H2O	1.43	LB A/A	3	PT/A	FALLBD A	212	100	100	100	100	0	100
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD A	306	100	100	100	100	0	0
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD A	405	100	100	100	100	0	75
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD A							
	Mean =							100	100	100	100	0	50
6	Scepter	0.122	LB A/A	2.8	OZ/A	FALLBD A	106	100	100	100	100	0	25
	Weedmaster	0.97	LB A/A	2	PT/A	FALLBD A	208	100	100	100	90	0	25
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD A	303	100	100	100	95	0	50
	NIS	0.25	% V/V	0.25	% V/V	FALLBD A	404	90	90	90	88	0	75
	Mean =							98	98	98	93	0	44
7	Extreme	0.814	LB A/A	3	PTS/A	FALLBD A	107	100	100	97	100	0	0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD A	201	100	100	95	95	0	100
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD A	302	100	100	100	95	0	50
	NIS	0.125	% V/V	0.125	% V/V	FALLBD A	407	100	100	100	97	0	100
	Mean =							100	100	98	97	0	63
8	Classic	0.5	OZ A/A	2	OZ/A	FALLBD A	108	100	100	100	100	0	75
	Express	0.15	OZ A/A	0.2	OZ/A	FALLBD A	207	100	100	100	100	0	0
	2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD A	314	100	100	100	100	0	100
	COC	1	% V/V	1	% V/V	FALLBD A	410	100	100	100	100	0	100
	Mean =							100	100	100	100	0	69
9	Classic	0.375	OZ A/A	1.5	OZ/A	FALLBD A	109	100	100	100	100	0	100
	Express	0.113	OZ A/A	0.15	OZ/A	FALLBD A	213	100	100	100	100	0	25
	2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD A	321	100	100	100	100	0	75
	COC	1	% V/V	1	% V/V	FALLBD A	415	100	100	100	100	0	100
	Mean =							100	100	100	100	0	75

## Purdue University

Weed Code								STEME	LAMPU	STEME	LAMPU	GLXMA	PHTAM
Crop Code								EFF	EFF	EFF	EFF	CI	
Rating Data Type								%	%	%	%	%	
Rating Unit								5/Apr/2006	5/Apr/2006	27/Apr/2006	27/Apr/2006	1/Jun/2006	23/Jun/2006
Rating Date												VC	
Crop Stage								BLM 1-6"	BLM 1-5"	3-9"seed	3-6"seed		6-36"
Weed Stage								50 YD2	4 YD2	50 YD2	4 YD2		4 PLOT
Weed Density, Unit								VMD + GN	VMD + GN	VMD + WGJ	WGJ + VMD	VMD	VM + EC
Assessed By								155 DA-A	155 DA-A	177 DA-A	177 DA-A	212 DA-A	234 DA-A
Tri-Eval Interval													
Tri	Treatment	Rate	Product	Product	Grow	Appl	Plot	1	2	3	4	5	6
No.	Name	Rate	Rate	Rate	Stg	Code							
10	Classic	0.25	OZ A/A	1	OZ/A	FALLBD	A 110	100	100	100	100	0	100
	Express	0.075	OZ A/A	0.1	OZ/A	FALLBD	A 214	97	100	100	100	0	0
	2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD	A 322	100	100	100	100	0	50
	COC	1	% V/V	1	% V/V	FALLBD	A 402	100	100	100	100	0	75
	Mean =							99	100	100	100	0	56
11	Valor	1	OZ A/A	1.96	OZ/A	FALLBD	A 111	97	100	100	100	0	0
	2,4-D Ester	8	OZ A/A	1	PT/A	FALLBD	A 203	100	100	100	93	0	0
	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A 308	100	100	100	100	0	0
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A 413	97	100	97	100	0	75
	Mean =							99	100	99	98	0	19
12	Basis	0.375	OZ A/A	0.5	OZ/A	FALLBD	A 112	100	100	100	100	0	25
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A 206	100	100	100	100	0	75
	COC	1	% V/V	1	% V/V	FALLBD	A 319	100	100	100	100	0	25
	Mean =							100	100	100	100	0	56
13	Basis	0.25	OZ A/A	0.333	OZ/A	FALLBD	A 113	95	100	97	100	0	0
	Karmex 80WP	12.8	OZ A/A	16	OZ/A	FALLBD	A 202	100	100	98	95	0	75
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A 318	95	100	97	95	0	0
	COC	1	% V/V	1	% V/V	FALLBD	A 409	100	100	100	99	0	75
	Mean =							98	100	98	97	0	38
14	Basis	0.25	OZ A/A	0.333	OZ/A	FALLBD	A 114	97	100	97	100	0	50
	Princep 4FL	14.4	OZ A/A	1.8	PT/A	FALLBD	A 205	100	100	100	100	0	0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A 316	100	100	100	100	0	50
	COC	1	% V/V	1	% V/V	FALLBD	A 408	100	100	100	100	0	100
	Mean =							99	100	99	100	0	50
15	Princep 4FL	14.4	OZ A/A	1.8	PT/A	FALLBD	A 115	100	100	100	100	0	0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A 211	100	100	100	95	0	25
	COC	1	% V/V	1	% V/V	FALLBD	A 315	100	100	100	95	0	0
	Mean =							100	100	100	98	0	19
16	A14972A	1.32	LB A/A	2	PT/A	FALLBD	A 116	100	100	98	100	0	75
	Touchdown Total	0.554	LB AE/A	17	FL OZ/A	FALLBD	A 204	100	100	100	95	0	25
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A 311	100	100	97	100	0	0
	Mean =							100	100	99	99	0	38
17	A14972A	1.65	LB A/A	2.5	PT/A	FALLBD	A 117	95	100	95	100	0	25
	Touchdown Total	0.554	LB AE/A	17	FL OZ/A	FALLBD	A 220	95	100	85	95	0	0
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A 313	95	100	93	95	0	75
	Mean =							96	100	93	96	0	44
18	Valor	0.048	LB A/A	1.5	OZ/A	FALLBD	A 118	75	100	75	90	0	0
	Clarity	0.25	LB A/A	8	FL OZ/A	FALLBD	A 221	70	100	70	95	0	0
	NIS	0.25	% V/V	0.25	% V/V	FALLBD	A 304	85	100	85	80	0	75
	Mean =							81	98	80	89	0	25
19	Valor	0.048	LB A/A	1.5	OZ/A	FALLBD	A 119	95	100	85	100	0	0
	Scepter	0.0656	LB A/A	1.5	OZ/A	FALLBD	A 222	100	100	100	100	0	0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A 301	95	90	100	80	0	50
	NIS	0.25	% V/V	0.25	% V/V	FALLBD	A 421	95	100	97	100	0	25
	Mean =							96	98	96	95	0	19

# Purdue University

								STEME	LAMPU	STEME	LAMPU	GLXMA	PHTAM
								EFF	EFF	EFF	EFF	CI	
								%	%	%	%	%	
								5/Apr/2006	5/Apr/2006	27/Apr/2006	27/Apr/2006	1/Jun/2006	23/Jun/2006
								BLM 1-6"	BLM 1-5"	3-9"seed	3-6"seed	VC	6-36"
								50 YD2	4 YD2	50 YD2	4 YD2		4 PLOT
								VMD + GN	VMD + GN	VMD + WGJ	WGJ + VMD	VMD	VM + EC
								155 DA-A	155 DA-A	177 DA-A	177 DA-A	212 DA-A	234 DA-A
Trt	Treatment	Rate	Product	Product	Grow	Appl	Plot	1	2	3	4	5	6
No.	Name	Rate	Unit	Rate	Rate Unit	Stg	Code						
20	Valor	0.048	LB A/A	1.5	OZ/A	FALLBD	A 120	100	100	100	100	0	0
	Scepter	0.0656	LB A/A	1.5	OZ/A	FALLBD	A 215	100	100	100	100	0	0
	Roundup OriginalMAX	0.387	LB AE/A	11	FL OZ/A	FALLBD	A 310	100	100	100	99	0	75
	NIS	0.25	% V/V	0.25	% V/V	FALLBD	A 406	100	100	98	98	0	25
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A						
							Mean =	100	100	100	99	0	25
21	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A 121	95	95	80	75	0	0
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A 210	97	100	95	85	0	25
							309	100	100	90	95	0	50
							422	95	100	90	80	0	100
							Mean =	97	99	89	84	0	44
22	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A 122	97	100	88	95	0	0
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A 219	100	100	100	100	0	0
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A 305	100	100	98	90	0	0
							418	97	100	100	90	0	100
							Mean =	99	100	97	94	0	25

# Purdue University

## Fall applied soybean herbicide evaluation at PPAC

Trial ID: 05F-PIP-NTS-08  
Location: PPAC

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

Weed Code								STEME	LAMPU	STEME	LAMPU	GLXMA	PHTAM
Crop Code								EFF	EFF	EFF	EFF	CI	
Rating Data Type								%	%	%	%	%	
Rating Unit								5/Apr/2006	5/Apr/2006	27/Apr/2006	27/Apr/2006	1/Jun/2006	23/Jun/2006
Rating Date												VC	
Crop Stage								BLM 1-6"	BLM 1-5"	3-9"seed	3-6"seed		6-36"
Weed Stage								50 YD2	4 YD2	50 YD2	4 YD2		4 PLOT
Weed Density, Unit								VMD + GN	VMD + GN	VMD + WGJ	WGJ + VMD	VMD	VM + EC
Assessed By								155 DA-A	155 DA-A	177 DA-A	177 DA-A	212 DA-A	234 DA-A
Trt-Eval Interval													
Trt 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 d	0 c	0 e	0 f	0 a	0 d
2	Pursuit	0.0625	LB A/A	4	FL OZ/A	FALLBD	A	95 b	95 b	96 ab	96 abc	0 a	50 abc
	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	99 ab	100 a	100 ab	0 a	50 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	98 ab	100 a	96 ab	95 abc	0 a	38 a-d
	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	100 a	0 a	50 abc
	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	98 ab	98 ab	98 ab	93 cd	0 a	44 a-d
	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	98 a	97 abc	0 a	63 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	Classic	0.5	OZ A/A	2	OZ/A	FALLBD	A	100 a	100 a	100 a	100 a	0 a	69 ab
	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	Classic	0.375	OZ A/A	1.5	OZ/A	FALLBD	A	100 a	100 a	100 a	100 a	0 a	75 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	Classic	0.25	OZ A/A	1	OZ/A	FALLBD	A	99 ab	100 a	100 a	100 a	0 a	56 abc
	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	99 ab	100 a	99 a	98 abc	0 a	19 cd
	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							STEME	LAMPU	STEME	LAMPU	GLXMA	PHTAM	
Crop Code							EFF	EFF	EFF	EFF	CI		
Rating Data Type							%	%	%	%	%		
Rating Unit							5/Apr/2006	5/Apr/2006	27/Apr/2006	27/Apr/2006	1/Jun/2006	23/Jun/2006	
Rating Date											VC		
Crop Stage							BLM 1-6"	BLM 1-5"	3-9"seed	3-6"seed		6-36"	
Weed Stage							50 YD2	4 YD2	50 YD2	4 YD2		4 PLOT	
Weed Density, Unit							VMD + GN	VMD + GN	VMD + WGJ	WGJ + VMD	VMD	VM + EC	
Assessed By							155 DA-A	155 DA-A	177 DA-A	177 DA-A	212 DA-A	234 DA-A	
Tri-Eval Interval													
Tri	Treatment	Rate	Rate	Product	Product	Grow	Appl	1	2	3	4	5	6
No.	Name		Unit	Rate	Rate Unit	Stg	Code						
12	Basis	0.375	OZ A/A	0.5	OZ/A	FALLBD	A	100 a	100 a	100 a	100 a	0 a	56 abc
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A						
	COC	1	% V/V	1	% V/V	FALLBD	A						
13	Basis	0.25	OZ A/A	0.333	OZ/A	FALLBD	A	98 ab	100 a	98 a	97 abc	0 a	38 a-d
	Karmex 80WP	12.8	OZ A/A	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						
14	Basis	0.25	OZ A/A	0.333	OZ/A	FALLBD	A	99 ab	100 a	99 a	100 a	0 a	50 abc
	Princep 4FL	14.4	OZ A/A	1.8	PT/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						
15	Princep 4FL	14.4	OZ A/A	1.8	PT/A	FALLBD	A	100 a	100 a	100 a	98 abc	0 a	19 cd
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A						
	COC	1	% V/V	1	% V/V	FALLBD	A						
16	A14972A	1.32	LB A/A	2	PT/A	FALLBD	A	100 a	100 a	99 a	99 abc	0 a	38 a-d
	Touchdown Total	0.554	LB AE/A	17	FL OZ/A	FALLBD	A						
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A						
17	A14972A	1.65	LB A/A	2.5	PT/A	FALLBD	A	96 ab	100 a	93 bc	96 abc	0 a	44 a-d
	Touchdown Total	0.554	LB AE/A	17	FL OZ/A	FALLBD	A						
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A						
18	Valor	0.048	LB A/A	1.5	OZ/A	FALLBD	A	81 c	98 ab	80 d	89 de	0 a	25 bcd
	Clarity	0.25	LB A/A	8	FL OZ/A	FALLBD	A						
	NIS	0.25	% V/V	0.25	% V/V	FALLBD	A						
19	Valor	0.048	LB A/A	1.5	OZ/A	FALLBD	A	96 ab	98 ab	96 ab	95 abc	0 a	19 cd
	Scepter	0.0656	LB A/A	1.5	OZ/A	FALLBD	A						
	2,4-D Ester	0.5	LB A/A	1	PT/A	FALLBD	A						
	NIS	0.25	% V/V	0.25	% V/V	FALLBD	A						
20	Valor	0.048	LB A/A	1.5	OZ/A	FALLBD	A	100 a	100 a	100 a	99 abc	0 a	25 bcd
	Scepter	0.0656	LB A/A	1.5	OZ/A	FALLBD	A						
	Roundup OriginalMAX	0.387	LB AE/A	11	FL OZ/A	FALLBD	A						
	NIS	0.25	% V/V	0.25	% V/V	FALLBD	A						
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A						
21	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A	97 ab	99 ab	89 c	84 e	0 a	44 a-d
	AMS	2.5	LB A/A	2.5	LB/A	FALLBD	A						
22	Roundup WeatherMAX	0.77	LB AE/A	22	FL OZ/A	FALLBD	A	99 ab	100 a	97 ab	94 bcd	0 a	25 bcd
	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						
LSD (P=.05)							5.0	4.1	5.4	6.1	0.0	45.4	
Standard Deviation							3.5	2.9	3.8	4.3	0.0	32.1	
CV							3.78	3.09	4.1	4.65	0.0	78.99	
Grand Mean							93.31	94.77	92.5	92.23	0.0	40.63	
Bartlett's X2							39.43	7.942	44.549	30.05	0.0	4.791	
P(Bartlett's X2)							0.001*	0.159	0.001*	0.008*	.	1.00	
Replicate F							1.496	0.884	2.680	0.627	0.000	9.497	
Replicate Prob(F)							0.2242	0.4542	0.0544	0.6003	1.0000	0.0001	
Treatment F							144.864	209.994	125.074	95.718	0.000	1.326	
Treatment Prob(F)							0.0001	0.0001	0.0001	0.0001	1.0000	0.1940	

# Purdue University

Weed Code	STEME	LAMPU	STEME	LAMPU	GLXMA	PHTAM
Crop Code					CI	
Rating Data Type	EFF	EFF	EFF	EFF	CI	
Rating Unit	%	%	%	%	%	
Rating Date	5/Apr/2006	5/Apr/2006	27/Apr/2006	27/Apr/2006	1/Jun/2006	23/Jun/2006
Crop Stage					VC	
Weed Stage	BLM 1-6"	BLM 1-5"	3-9"seed	3-6"seed		6-36"
Weed Density, Unit	50 YD2	4 YD2	50 YD2	4 YD2		4 PLOT
Assessed By	VMD + GN	VMD + GN	VMD + WGJ	WGJ + VMD	VMD	VM + EC
Tri-Eval Interval	155 DA-A	155 DA-A	177 DA-A	177 DA-A	212 DA-A	234 DA-A

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