

# Purdue University

## Fall Applied Herbicides - Before Soybean - PPAC

Trial ID: FALL002  
Location:

Study Dir.: Bill/Glenn  
Investigator: Dr. William G. Johnson

### GENERAL TRIAL INFORMATION

Study Director: Bill/Glenn  
Affiliation: Purdue University  
Postal Code: 47907  
Investigator: Dr. William G. Johnson

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

### CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	STEME	COMMON CHICKWEED	STELLARIA MEDIA
2.	LAMAM	HENBIT	LAMIUM AMPLEXICAULE L.
3.	LAMPU	PURPLE DEADNETTLE	LAMIUM PURPUREUM
4.	TAROF	DANDELION, COMMON	TARAXACUM OFFICINALE WEBER IN WIGGERS

SOYBEAN

### SITE AND DESIGN

Plot Width, Unit: 10            FT            Plot Length, Unit: 40            FT            Reps: 4  
Study Design: RANDOMIZED COMPLETE BLOCK

### APPLICATION DESCRIPTION

	A
Application Date:	8/Nov/2002
Time of Day:	3:00
Application Method:	DROPLE
Application Timing:	FALL
Applic. Placement:	BROFOL
Air Temp., Unit:	59    F
% Relative Humidity:	58
Wind Velocity, Unit:	13.5 MPH
Soil Temp., Unit:	10    C
% Cloud Cover:	60

### WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	STEME
Weed 2 Code, Stage:	LAMAM
Weed 3 Code, Stage:	LAMPU
Weed 4 Code, Stage:	TAROF

### APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPK
Operating Pressure:	32 PSI
Nozzle Spacing, Unit:	20    IN
Nozzles/Row:	6
Ground Speed, Unit:	3    MPH
Carrier:	WATER
Spray Volume, Unit:	15    GPA
Propellant:	CO2

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Weed Code	LAMPU	STEME	STEME	LAMPU	STEME	LAMPU				
Rating Date	19/Dec/2002	19/Dec/2002	1/Apr/2003	1/Apr/2003	1/May/2003	1/May/2003				
Weed Stage	3 in	4-6in								
Weed Density, Unit	19 ft2	8 ft2	14 ft2	5 ft2						
Trt-Eval Interval			144 DA-A	144 DA-A	174 DA-A	174 DA-A				
Trt No.	Treatment Name	Rate	Grow Unit	Stg	1	2	3	4	5	6
1	Canopy XL Express Weedone LV4 Crop Oil Conc	96 a			50 abc	89 a	99 a	95 ab	100 a	
2	Canopy XL Express Weedone LV4 Crop Oil Conc	76 a			39 bcd	88 a	90 a	91 abc	98 ab	
3	Valor Express Weedone LV4 Crop Oil Conc	88 a			43 bc	84 a	85 a	82 a-d	89 ab	
4	Valor Weedone LV4 Crop Oil Conc	87 a			43 bc	65 a	81 a	59 d	94 ab	
5	Valor Basis Weedone LV4 Crop Oil Conc	95 a			61 abc	92 a	97 a	88 abc	97 ab	
6	Backdraft SL Weedone LV4 NIS AMS	67 a			39 bcd	96 a	75 a	95 ab	85 ab	
7	Scepter Weedone LV4 NIS AMS	58 ab			31 bcd	73 a	63 ab	87 abc	68 ab	
8	Prowl H2O Backdraft SL Weedone LV4 AMS	78 a			36 bcd	94 a	85 a	97 a	95 ab	
9	Python Sencor Weedone LV4 Crop Oil Conc	88 a			63 abc	74 a	86 a	85 abc	97 ab	
10	Gramoxone Max Weedone LV4 NIS	78 a			51 abc	64 a	59 ab	59 d	69 ab	
11	Scepter Authority Weedone LV4 Crop Oil Conc	91 a			28 cd	86 a	73 a	89 abc	91 ab	
12	Roundup WeatherMax AMS	69 a			64 abc	88 a	81 a	91 abc	85 ab	
13	Roundup WeatherMax AMS	70 a			34 bcd	86 a	79 a	89 abc	81 ab	
14	Roudnup WeatherMax Weedone LV4 AMS	52 ab			36 bcd	80 a	74 a	71 a-d	73 ab	
15	Roundup WeatherMax Weedone LV4 AMS	83 a			46 abc	91 a	81 a	83 a-d	81 ab	

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Trt No.	Treatment Name	Rate	Grow Unit	Stg	1	2	3	4	5	6				
16	Roundup WeatherMax Canopy XL Weedone LV4 AMS	89	a		53	abc	94	a	86	a	96	ab	98	ab
17	Rounup WeatherMax Canopy XL Weedone LV4 AMS	71	a		49	abc	89	a	78	a	93	ab	97	ab
18	Roundup WeatherMax Canopy XL Weedone LV4 AMS	76	a		61	abc	95	a	96	a	96	a	98	ab
19	Boundry Weedone LV4	94	a		74	ab	88	a	93	a	86	abc	96	ab
20	Boundry Weedone LV4	96	a		89	a	93	a	97	a	88	abc	96	ab
21	Touchdown Weedone LV4 AMS													
22	Weedone LV4	23	bc		21	cd	19	b	34	b	20	e	64	b
23	Valor Regiment Weedone LV4 Crop Oil Conc	97	a		48	abc	70	a	97	a	69	a-d	97	ab
24	Valor Weedone LV4 NIS	90	a		43	bc	63	a	94	a	58	d	95	ab
25	Valor Roundup WeatherMax AMS	93	a		45	bc	80	a	87	a	85	abc	86	ab
26	Valor Banvel NIS	79	a		49	abc	75	a	86	a	68	bcd	80	ab
27	Valor Banvel Weedone LV4 NIS	82	a		33	bcd	63	a	92	a	65	cd	90	ab
28	Valor Stellar Weedone Crop Oil Conc	97	a		56	abc	65	a	98	a	70	a-d	100	a
29	Weedy Check	0	c		0	d	0	c	0	c	0	f	0	c
LSD (P=.05)		29.5			24.6		18.1		26.7		15.3		19.7	
Standard Deviation		20.9			17.4		12.8		18.9		10.8		13.9	
CV		27.07			37.94		16.75		23.56		14.13		16.28	
Grand Mean		77.16			45.77		76.37		80.07		76.77		85.62	
Bartlett's X2		65.094			24.252		45.748		76.36		57.086		91.238	
P(Bartlett's X2)		0.001*			0.562		0.01*		0.001*		0.001*		0.001*	
Replicate F		1.517			4.661		2.912		3.390		0.061		13.152	
Replicate Prob(F)		0.2163			0.0047		0.0394		0.0219		0.9800		0.0001	
Treatment F		4.570			3.841		11.785		4.976		17.402		8.045	
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, Student-Newman-Keuls)

Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.