

Purdue University

FALL APPLIED HERBICIDE - BEFORE CORN - PPAC

Trial ID: FALL003
Location: PENNY PURDUE

Study Dir.: BILL/GLENN
Investigator: Dr. William G. Johnson

GENERAL TRIAL INFORMATION

Study Director: BILL/GLENN
Affiliation: PURDUE UNIVERSITY
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	CHICKWEED, COMMON	STELLARIA MEDIA (L.) VILL./CYR.
2.	LAMPU	PURPLE DEADNETTLE	LAMIUM PURPUREUM L.
3.	LAMAM	HENBIT	LAMIUM AMPLEXICAULE L.
4.	TAROF	DANDELION, COMMON	TARAXACUM OFFICINALE WEBER IN WIGGERS

SITE AND DESIGN

Plot Width, Unit: 10 FT **Plot Length, Unit:** 40 FT **Reps:** 4
Site Type: RESEARCH STATION
Tillage Type: NO-TILL **Study Design:** RANDOMIZED COMPLETE BLOCK

APPLICATION DESCRIPTION

	A
Application Date:	8/Nov/2002
Time of Day:	6:00 pm
Application Method:	BACKPACK
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:	95

WEED STAGE AT EACH APPLICATION

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

APPLICATION EQUIPMENT

	A
Appl. Equipment:	BACKPACK
Operating Pressure:	32 PSI
Nozzle Spacing, Unit:	20 IN
Nozzles/Row:	6
Boom Height, Unit:	18 IN
Ground Speed, Unit:	3 MPH
Carrier:	WATER
Spray Volume, Unit:	15 GPA
Propellant:	CO2

Trt No	Treatment Application Comment
2	Simazine 90DF was replaced with Princep 4L
6	Princep 90DF was replaced with Princep 4L

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Weed Code	LAMAM	STEME	STEME	LAMAM	STEME	LAMAM				
Rating Date	19/Dec/2002	19/Dec/2002	1/Apr/2003	1/May/2003	1/May/2003	1/May/2003				
Weed Stage	2-8 lf	7 nodes								
Weed Density, Unit	32 ft ²	15 ft ²								
Trt-Eval Interval	41 DA-A	41 DA-A	144 DA-A	174 DA-A	174 DA-A	174 DA-A				
Trt No.	Treatment Name	Rate	Grow Unit	Stg	1	2	3	4	5	6
1	ROUNDUP WEATHERMAX WEEDONE LV4 AMS	48 a				72 a	89 a	96 a	96 a	99 a
2	PRINCEP COC	63 a				55 ab	99 a	98 a	99 a	96 a
3	SENCOR PYTHON WEEDONE LV4	58 a				73 a	101 a	100 a	101 a	99 a
4	CALLISTO COC	45 a				41 ab	99 a	98 a	100 a	100 a
5	WEEDONE LV4	38 a				66 a	99 a	93 a	98 a	99 a
6	BASIS PRINCEP WEEDONE LV4 COC	58 a				53 ab	86 a	96 a	94 a	96 a
7	BASIS WEEDONE LV4 COC	56 a				48 ab	83 a	87 a	78 a	92 a
8	Weedy Check	0 b				0 b	0 b	0 b	0 b	0 b
LSD (P=.05)		24.9				38.4	20.2	10.4	15.6	6.6
Standard Deviation		16.8				25.9	13.6	7.0	10.5	4.4
CV		36.8				50.94	16.64	8.43	12.68	5.24
Grand Mean		45.68				50.91	81.82	83.37	83.04	84.97
Bartlett's X ²		1.889				2.038	42.814	22.396	38.918	15.923
P(Bartlett's X ²)		0.93				0.916	0.001*	0.001*	0.001*	0.007*
Replicate F		0.991				1.273	1.043	0.568	1.101	0.910
Replicate Prob(F)		0.4180				0.3119	0.3963	0.6429	0.3731	0.4547
Treatment F		5.771				3.292	24.594	93.250	42.615	239.464
Treatment Prob(F)		0.0011				0.0182	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.