

(04FALHOWE)

Ohio State University
Horticulture and Crop Science

FALL HORSEWEED CONTROL PLUS RESIDUAL

Trial ID: 04FALHOWE Study Dir.: Anthony F. Dobbels
Location: WESTERN BRANCH F-10 Investigator: Dr. Mark M. Loux

GENERAL TRIAL INFORMATION

Study Director: Anthony F. Dobbels
Investigator: Dr. Mark M. Loux

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

CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1.	ERICA Horseweed	Conyza canadensis
2.	LAMPU Deadnettle, Red	Lamium purpureum
3.	TAROF Common dandelion	Taraxacum officinale

Crop 1: GLXMA SOYBEAN Variety: DEKALB DKB 38-52
Planting Date: 4-29-04 Planting Method: JOHN DEERE 7200
Rate: 155000 SEED/A Depth: 0.5 IN
Row Spacing: 30 IN Seed Bed: NO-TILL

SITE AND DESIGN

Plot Width, Unit: 10 FT Plot Length, Unit: 30 FT Reps: 3
Tillage Type: NO-TILL Study Design: RANDOMIZED COMPLETE BLOCK

MAINTENANCE

Field Prep./Maintenance: OVERLAY OF ROUNDUP WEATHERMAX 22 OZ/A ON 5-29-04

SOIL DESCRIPTION

% OM: 4.3 Texture: silty clay loam
pH: 5.9 Soil Name: Kokomo
CEC: 21

APPLICATION DESCRIPTION

A

Application Date: 11-3-03
Time of Day: 11:00 A.M
Application Method: SPRAY
Application Timing: FALL
Applic. Placement: BROADCAST
Air Temp., Unit: 76 F
% Relative Humidity: 50
Wind Velocity, Unit: 6 S
Soil Temp., Unit: 59 F
Soil Moisture: MOIST/WET
% Cloud Cover: 15

CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: GLXMA

WEED STAGE AT EACH APPLICATION

A

Weed 1 Code, Stage: ERICA 1/16-1/8"
Stage Scale: COTYLEDON
Density, Unit: 80 M2
Weed 2 Code, Stage: LAMPU 1/4-1/2"
Stage Scale: COTYLEDON
Density, Unit: 2 M2
Weed 3 Code, Stage: TAROF 4-6" ROSE
Stage Scale: 8 LVS
Density, Unit: 0.3 M2

APPLICATION EQUIPMENT

A

Appl. Equipment: BACKPACK
Operating Pressure: 50
Nozzle Type: DG
Nozzle Size: 11002
Nozzle Spacing, Unit: 18 IN
Ground Speed, Unit: 3 MPH
Carrier: WATER
Spray Volume, Unit: 20 GPA
Propellant: CO2

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Weed Code		ERICA		STEME		AMBTR		ERICA		STEME		AMBTR	
Rating Data Type		RESIDUAL		RESIDUAL		RESIDUAL		RESIDUAL		RESIDUAL		RESIDUAL	
Rating Unit		CONTROL		CONTROL		CONTROL		CONTROL		CONTROL		CONTROL	
Rating Date		4-29-04		4-29-04		4-29-04		5-27-04		5-27-04		5-27-04	
Trt-Eval Interval		AT PLANT		AT PLANT		AT PLANT		30 DAPL		30 DAPL		30 DAPL	
# Subsamples, Dec.		0		0		0		0		0		0	
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6		
1	ROUNDUP WEATHERMAX 1 AMS	16 oz/a 4 qt/a		FALL FALL	A	0	100	47	7	100	0		
2	ROUNDUP WEATHERMAX 2 AMS	22 oz/a 4 qt/a		FALL FALL	A	7	100	30	0	100	0		
3	ROUNDUP WEATHERMAX 3 2,4-D ESTER 3 AMS	16 oz/a 1 pt/a 4 qt/a		FALL FALL FALL	A	23	100	45	17	100	7		
4	ROUNDUP WEATHERMAX 4 CANOPY XL 1.3 OZ/A 4 F6025 4 QY998 4 AMS	16 oz/a 0.51 oz/a 0.83 oz/a 4 qt/a		FALL FALL FALL FALL	A	37	100	67	23	100	33		
5	ROUNDUP WEATHERMAX 5 CANOPY XL 1.3 OZ/A 5 F6025 5 QY998 5 2,4-D ESTER 5 AMS	16 oz/a 0.51 oz/a 0.83 oz/a 1 pt/a 4 qt/a		FALL FALL FALL FALL FALL	A	47	100	76	33	100	37		
6	ROUNDUP WEATHERMAX 6 CANOPY XL 1 OZ/A 6 F6025 6 QY998 6 AMS	16 oz/a 0.384 oz/a 0.62 oz/a 4 qt/a		FALL FALL FALL FALL	A	20	100	52	10	100	7		
7	ROUNDUP WEATHERMAX 7 CANOPY XL 1 OZ/A 7 F6025 7 QY998 7 2,4-D ESTER 7 AMS	16 oz/a 0.384 oz/a 0.62 oz/a 1 pt/a 4 qt/a		FALL FALL FALL FALL FALL	A	43	100	67	40	100	23		
8	ROUNDUP WEATHERMAX 8 AMPLIFY 8 AMS	16 oz/a 0.3 oz/a 4 qt/a		FALL FALL FALL	A	37	100	30	23	100	10		
9	ROUNDUP WEATHERMAX 9 AMPLIFY 9 2,4-D ESTER 9 AMS	16 oz/a 0.3 oz/a 1 pt/a 4 qt/a		FALL FALL FALL FALL	A	33	100	60	23	100	7		
10	ROUNDUP WEATHERMAX 10 LASSO 10 AMS	16 oz/a 1.5 qt/a 4 qt/a		FALL FALL FALL	A	0	100	33	0	100	0		
11	ROUNDUP WEATHERMAX 11 LASSO 11 2,4-D ESTER 11 AMS	16 oz/a 1.5 qt/a 1 pt/a 4 qt/a		FALL FALL FALL FALL	A	13	100	7	13	100	0		
12	ROUNDUP WEATHERMAX 12 LASSO 12 AMS	16 oz/a 2.5 qt/a 4 qt/a		FALL FALL FALL	A	0	100	10	0	100	0		
13	ROUNDUP WEATHERMAX 13 LASSO 13 2,4-D ESTER 13 AMS	16 oz/a 2.5 qt/a 1 pt/a 4 qt/a		FALL FALL FALL FALL	A	7	100	27	7	100	0		
14	GLYPHOMAX PLUS 14 PYTHON 14 2,4-D ESTER 14 AMS	1 pt/a 1 oz/a 1 pt/a 4 qt/a		FALL FALL FALL FALL	A	0	100	35	0	100	0		
15	GLYPHOMAX PLUS 15 FIRSTRATE 15 2,4-D ESTER 15 AMS	1 pt/a 0.3 oz/a 1 pt/a 4 qt/a		FALL FALL FALL FALL	A	23	100	40	23	100	0		
16	GLYPHOMAX PLUS 16 GANGSTER 2.4 OZ/A 16 FIRSTRATE 16 VALOR 16 2,4-D ESTER 16 AMS	1 pt/a 0.4 oz/a 2 oz/a 1 pt/a 4 qt/a		FALL FALL FALL FALL FALL	A	73	100	83	73	100	47		
17	CANOPY XL 3.5 OZ/A 17 CLASSIC 17 AUTHORITY 17 EXPRESS 17 2,4-D ESTER 17 COC	1.28 oz/a 2.19 oz/a 0.1 oz/a 1 pt/a 0.8 qt/a		FALL FALL FALL FALL FALL	A	67	100	73	53	100	40		

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Rating Date	4-29-04	4-29-04	4-29-04	5-27-04	5-27-04	5-27-04					
Trt-Eval Interval	AT PLANT	AT PLANT	AT PLANT	30 DAPL	30 DAPL	30 DAPL					
# Subsamples, Dec.	0	0	0	0	0	0					
Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	1	2	3	4	5	6
18	UTC					0	0	0	0	0	0
LSD (P=.05)						25.5	0.0	62.2	26.4	0.0	31.0
Standard Deviation						15.3	0.0	37.3	15.8	0.0	18.6
CV						64.08	0.0	86.01	82.13	0.0	159.23
Replicate F						1.778	0.000	0.451	3.249	0.000	3.670
Replicate Prob(F)						0.1843	1.0000	0.6405	0.0511	1.0000	0.0360
Treatment F						6.900	0.000	1.285	4.993	0.000	2.332
Treatment Prob(F)						0.0001	1.0000	0.2595	0.0001	1.0000	0.0174