

COMMON LAMBSQUARTERS BURNDOWN II

Trial ID: 04COLQ2 Study Dir.: Anthony F. Dobbels
Location: WESTERN BRANCH F-9 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. CHEAL	Lambsquarters, common	Chenopodium album
2. AMBTR	Ragweed, giant	Ambrosia trifida
3. RUMCR	Rumex crispus	Curly dock
4. SENGL	Senecio glabellus	Groundsel, cressleaf
5. TAROF	Taraxacum officinale	Common dandelion
6. STEME	Common chickweed	Stellaria media

Crop 1: GLXMA SOYBEAN Variety: PIONEER 93B36
Planting Date: 5-28-04 Planting Method: JOHN DEERE 7200
Rate: 205000 SEED/A Depth: 0.5 IN
Row Spacing: 30 IN Seed Bed: NO-TILL

SITE AND DESIGN

Plot Width, Unit: 6.67 FT Plot Length, Unit: 30 FT Reps: 3
Tillage Type: NO-TILL Study Design: RANDOMIZED COMPLETE BLOCK

SOIL DESCRIPTION

% OM: 3.2 Texture: silt loam
pH: 6.4 Soil Name: Crosby
CEC: 15

APPLICATION DESCRIPTION

A

Application Date: 5-17-04
Time of Day: 11:30 A.M
Application Method: SPRAY
Application Timing: 4" COLQ
Applic. Placement: BROADCAST
Air Temp., Unit: 77 F
% Relative Humidity: 58
Wind Velocity, Unit: 7 SW
Soil Temp., Unit: 70 F
Soil Moisture: MOIST/WET
% Cloud Cover: 25

CROP STAGE AT EACH APPLICATION

A

Crop 1 Code, Stage: GLXMA

WEED STAGE AT EACH APPLICATION

A

Weed 1 Code, Stage: CHEAL 2-3"
Stage Scale: 8 LVS
Density, Unit: 12 M2
Weed 2 Code, Stage: AMBTR 4-6"
Stage Scale: 6 LVS
Density, Unit: 6 M2
Weed 3 Code, Stage: RUMCR 12"
Stage Scale: 6 LVS
Density, Unit: 0.3 M2
Weed 4 Code, Stage: SENGL 12"
Stage Scale: >12 LVS
Density, Unit: 0.5 M2
Weed 5 Code, Stage: TAROF 12-20"
Stage Scale: >12 LVS
Density, Unit: 2 M2
Weed 6 Code, Stage: STEME 24"
Stage Scale: >12 LVS
Density, Unit: 12 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

COMMON LAMBSQUARTERS BURNDOWN II

Trial ID: 04COLQ2 Study Dir.: Anthony F. Dobbels
Location: WESTERN BRANCH F-9 Investigator: Dr. Mark M. Loux

Weed Code		CHEAL	AMBTR	AMBEL	ERICA	TAROF	STEME	CHEAL	AMBTR				
Rating Data Type		CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL				
Rating Unit		PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT				
Rating Date		5-27-04	5-27-04	5-27-04	5-27-04	5-27-04	5-27-04	6-14-04	6-14-04				
Trt-Eval Interval		10 DA-A	10 DA-A	10 DA-A	10 DA-A	10 DA-A	10 DA-A	28 DA-A	28 DA-A				
# Subsamples, Dec.		0	0	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	7	8
1	ROUNDUP WEATHERMAX	16 oz/a		6" COLQ	A	73	67	100	73	30	100	78	77
2	ROUNDUP WEATHERMAX	16 oz/a		6" COLQ	A	62	80	100	100	52	100	62	83
2	AMS	4 qt/a		6" COLQ									
3	ROUNDUP WEATHERMAX	22 oz/a		6" COLQ	A	73	73	100	100	68	100	75	85
3	AMS	4 qt/a		6" COLQ									
4	ROUNDUP WEATHERMAX	32 oz/a		6" COLQ	A	88	89	100	100	72	100	90	87
4	AMS	4 qt/a		6" COLQ									
5	ROUNDUP ORIGINAL MAX	16 oz/a		6" COLQ	A	72	70	100	100	47	100	78	85
5	AMS	4 qt/a		6" COLQ									
6	ROUNDUP ORIGINAL MAX	16 oz/a		6" COLQ	A	99	72	100	100	43	100	96	87
6	NIS	6.4 oz/a		6" COLQ									
6	AMS	4 qt/a		6" COLQ									
7	TOUCHDOWN IQ	24 oz/a		6" COLQ	A	73	67	100	100	53	100	73	83
7	AMS	4 qt/a		6" COLQ									
8	TOUCHDOWN TOTAL	17.2 oz/a		6" COLQ	A	78	67	100	100	32	100	92	80
8	AMS	4 qt/a		6" COLQ									
9	GLYPHOMAX PLUS	24 oz/a		6" COLQ	A	65	80	100	97	60	100	58	85
9	AMS	4 qt/a		6" COLQ									
10	GF-1279	18 oz/a		6" COLQ	A	55	75	100	100	52	100	53	87
10	AMS	4 qt/a		6" COLQ									
11	CLEAR OUT 41 PLUS	24 oz/a		6" COLQ	A	53	75	100	100	57	100	47	85
11	AMS	4 qt/a		6" COLQ									
12	GLYSTAR PLUS	24 oz/a		6" COLQ	A	50	80	100	100	50	100	50	90
12	AMS	4 qt/a		6" COLQ									
13	ROUNDUP ORIGINAL	24 oz/a		6" COLQ	A	73	70	100	100	40	100	66	88
13	HI-PER OIL	12.8 oz/a		6" COLQ									
13	AMS	4 qt/a		6" COLQ									
14	ROUNDUP WEATHERMAX	16 oz/a		6" COLQ	A	73	73	100	93	40	100	76	85
14	HARMONY GT	0.083 oz/a		6" COLQ									
14	AMS	4 qt/a		6" COLQ									
15	RAPTOR	5 oz/a		6" COLQ	A	63	57	60	57	27	100	78	68
15	MSO	0.8 qt/a		6" COLQ									
15	AMS	4 qt/a		6" COLQ									
16	UTC					0	0	0	0	0	0	0	0
LSD (P=.05)						14.8	16.2	4.7	12.0	15.9	0.0	15.4	10.2
Standard Deviation						8.8	9.7	2.8	7.2	9.5	0.0	9.1	6.1
CV						13.38	14.24	3.05	8.11	21.06	0.0	13.6	7.84
Replicate F						0.183	1.237	1.134	1.086	6.498	0.000	2.461	2.647
Replicate Prob(F)						0.8338	0.3047	0.3383	0.3505	0.0051	1.0000	0.1066	0.0874
Treatment F						17.890	12.272	268.210	40.997	10.245	0.000	19.318	36.837
Treatment Prob(F)						0.0001	0.0001	0.0001	0.0001	0.0001	1.0000	0.0001	0.0001

(04COLQ2)

Ohio State University
Horticulture and Crop Science

Weed Code
Rating Data Type
Rating Unit
Rating Date
Trt-Eval Interval
Subsamples, Dec.

ERICA TAROF
CONTROL CONTROL
PERCENT PERCENT
6-14-04 6-14-04
28 DA-A 28 DA-A
0 0

Trt No.	Treatment Name	Product Rate	Product Rate Unit	Grow Stg	Appl Code	9	10
1	ROUNDUP WEATHERMAX	16 oz/a		6" COLQ	A	80	77
2	ROUNDUP WEATHERMAX	16 oz/a		6" COLQ	A	100	93
2	AMS	4 qt/a		6" COLQ			
3	ROUNDUP WEATHERMAX	22 oz/a		6" COLQ	A	100	90
3	AMS	4 qt/a		6" COLQ			
4	ROUNDUP WEATHERMAX	32 oz/a		6" COLQ	A	100	87
4	AMS	4 qt/a		6" COLQ			
5	ROUNDUP ORIGINAL MAX	16 oz/a		6" COLQ	A	100	98
5	AMS	4 qt/a		6" COLQ			
6	ROUNDUP ORIGINAL MAX	16 oz/a		6" COLQ	A	100	86
6	NIS	6.4 oz/a		6" COLQ			
6	AMS	4 qt/a		6" COLQ			
7	TOUCHDOWN IQ	24 oz/a		6" COLQ	A	100	97
7	AMS	4 qt/a		6" COLQ			
8	TOUCHDOWN TOTAL	17.2 oz/a		6" COLQ	A	100	95
8	AMS	4 qt/a		6" COLQ			
9	GLYPHOMAX PLUS	24 oz/a		6" COLQ	A	100	98
9	AMS	4 qt/a		6" COLQ			
10	GF-1279	18 oz/a		6" COLQ	A	100	90
10	AMS	4 qt/a		6" COLQ			
11	CLEAR OUT 41 PLUS	24 oz/a		6" COLQ	A	100	90
11	AMS	4 qt/a		6" COLQ			
12	GLYSTAR PLUS	24 oz/a		6" COLQ	A	100	92
12	AMS	4 qt/a		6" COLQ			
13	ROUNDUP ORIGINAL	24 oz/a		6" COLQ	A	100	87
13	HI-PER OIL	12.8 oz/a		6" COLQ			
13	AMS	4 qt/a		6" COLQ			
14	ROUNDUP WEATHERMAX	16 oz/a		6" COLQ	A	100	93
14	HARMONY GT	0.083 oz/a		6" COLQ			
14	AMS	4 qt/a		6" COLQ			
15	RAPTOR	5 oz/a		6" COLQ	A	10	43
15	MSO	0.8 qt/a		6" COLQ			
15	AMS	4 qt/a		6" COLQ			
16	UTC					0	0
LSD (P=.05)						11.3	27.3
Standard Deviation						6.8	16.3
CV						7.83	19.79
Replicate F						0.135	1.351
Replicate Prob(F)						0.8741	0.2760
Treatment F						68.081	7.414
Treatment Prob(F)						0.0001	0.0001