

# Ohio State University Horticulture and Crop Science

2006 GF-1004 NATIONAL PERFORMANCE TRIALS

Trial ID: 06PASTURE4  
Location: DELAWARE COUNTY

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

### GENERAL TRIAL INFORMATION

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

### TRIAL LOCATION

**State/Prov.:** Ohio **Trial Status:** Complete  
**Country:** USA **Initiation Date:** Apr/03/2006  
**Conducted Under GLP (Y/N):** N **Conducted Under GEP (Y/N):** N

### CROP AND WEED DESCRIPTION

Weed Code	Common Name	Scientific Name
1. CIRAR	Cirsium arvense	Cirsium arvense

**Crop 1:** FESAR FESCUE, TALL **Variety:** .

### SITE AND DESIGN

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

### SOIL DESCRIPTION

**% OM:** 1.5 **Texture:** SILTY CLAY LOAM  
**pH:** 6

**Overall Moisture Conditions:** GOOD

### APPLICATION DESCRIPTION

A

**Application Date:** Apr/28/2006  
**Time of Day:** 11:00 A.M  
**Application Method:** SPRAY  
**Application Timing:** SPRING  
**Applic. Placement:** BROADCAST  
**Air Temp., Unit:** 50 F  
**% Relative Humidity:** 52  
**Wind Velocity, Unit:** 3 NE  
**Soil Temp., Unit:** 48 F  
**Soil Moisture:** DRY/MOIST  
**% Cloud Cover:** 1

### CROP STAGE AT EACH APPLICATION

A

**Crop 1 Code, Stage:** FESAR .  
**Stage Scale:** .  
**Height, Unit:** 12 IN

### WEED STAGE AT EACH APPLICATION

A

**Weed 1 Code, Stage:** CIRAR 12-12"  
**Stage Scale:** >12 lvs  
**Density, Unit:** . .

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## 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	CIRAR		CIRAR		CIRAR	CIRAR
Crop Code	FESAR	FESAR	FESAR	FESAR	CIRAR	CIRAR
Rating Data Type	PHYTO	CONTROL	PHYTO	CONTROL	CONTROL	CONTROL
Rating Unit	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT	PERCENT
Rating Date	May/15/2006	May/15/2006	May/25/2006	May/25/2006	Jul/03/2006	Jul/26/2006
Trt-Eval Interval	17 DA-A	17 DA-A	27 DA-A	27 DA-A	66 DA-A	89 DA-A
# Subsamples, Dec.	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Product	Product Rate	Product Unit	Appl Code	1	2	3	4	5	6
1	FOREFRONT	0.374 lb ai/a	1 pt/a			A	0 a	81 abc	0 a	80 ab	73 ab	63 ab
1	ACTIVATOR 90	0.25 % v/v	6.4 oz/a									
2	FOREFRONT	0.56 lb ai/a	1.5 pt/a			A	0 a	80 abc	0 a	98 a	77 a	57 abc
2	ACTIVATOR 90	0.25 % v/v	6.4 oz/a									
3	FOREFRONT	0.75 lb ai/a	2 pt/a			A	0 a	93 a	0 a	91 ab	73 ab	63 ab
3	ACTIVATOR 90	0.25 % v/v	6.4 oz/a									
4	FOREFRONT	0.97 lb ai/a	2.6 pt/a			A	0 a	90 a	0 a	100 a	93 a	73 a
4	ACTIVATOR 90	0.25 % v/v	6.4 oz/a									
5	GRAZON	0.635 lb ai/a	2 pt/a			A	0 a	78 abc	0 a	87 ab	70 ab	53 abc
5	ACTIVATOR 90	0.25 % v/v	6.4 oz/a									
6	GRAZON	0.95 lb ai/a	3 pt/a			A	0 a	86 ab	0 a	89 ab	73 ab	53 abc
6	ACTIVATOR 90	0.25 % v/v	6.4 oz/a									
7	2,4-D	1 lb ai/a	2 pt/a			A	0 a	65 c	0 a	57 c	29 c	15 cd
7	ACTIVATOR 90	0.25 % v/v	6.4 oz/a									
8	2,4-D	1 lb ai/a	2 pt/a			A	0 a	73 bc	0 a	69 bc	34 bc	20 bcd
8	ACTIVATOR 90	0.25 % v/v	6.4 oz/a									
9	BANVEL	0.5 lb ai/a	1 pt/a			A	0 a	73 bc	0 a	86 ab	53 abc	45 abc
9	2,4-D	1 lb ai/a	2 pt/a									
9	ACTIVATOR 90	0.25 % v/v	6.4 oz/a									
10	CURTAIL	1.19 lb ai/a	2 qt/a			A	0 a	82 abc	0 a	78 ab	67 ab	55 abc
10	ACTIVATOR 90	0.25 % v/v	6.4 oz/a									
11	CIMMARON MAX						0 a	70 bc	0 a	77 ab	53 abc	27 bcd
11	ALLY	0.0094 lb ai/a	0.25 oz/a			A						
11	WEEDMASTER	0.484 lb ai/a	1 pt/a									
11	ACTIVATOR 90	0.25 % v/v	6.4 oz/a									
12	UTC						0 a	0 d	0 a	0 d	0 d	0 d
LSD (P=.05)							0.0	10.6	0.0	15.2	24.7	27.9
Standard Deviation							0.0	6.2	0.0	8.9	14.5	16.4
CV							0.0	8.58	0.0	11.73	25.03	37.46
Bartlett's X2							0.0	4.421	0.0	10.712	12.54	11.8
P(Bartlett's X2)							.	0.817	.	0.296	0.129	0.225
Replicate F							0.000	0.745	0.000	1.487	2.600	3.125
Replicate Prob(F)							1.0000	0.4877	1.0000	0.2499	0.0992	0.0659
Treatment F							0.000	45.432	0.000	27.112	9.531	5.843
Treatment Prob(F)							1.0000	0.0001	1.0000	0.0001	0.0001	0.0003

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.

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Weed Code	CIRAR
Crop Code	
Rating Data Type	CONTROL
Rating Unit	PERCENT
Rating Date	Jun/28/2007
Trt-Eval Interval	14 MO-A
# Subsamples, Dec.	0

Trt No.	Treatment Name	Rate	Product Unit	Product Rate	Product Unit	Appl Code	7
1	FOREFRONT	0.374 lb ai/a		1 pt/a		A	14 a
1	ACTIVATOR 90	0.25 % v/v		6.4 oz/a			
2	FOREFRONT	0.56 lb ai/a		1.5 pt/a		A	10 a
2	ACTIVATOR 90	0.25 % v/v		6.4 oz/a			
3	FOREFRONT	0.75 lb ai/a		2 pt/a		A	27 a
3	ACTIVATOR 90	0.25 % v/v		6.4 oz/a			
4	FOREFRONT	0.97 lb ai/a		2.6 pt/a		A	9 a
4	ACTIVATOR 90	0.25 % v/v		6.4 oz/a			
5	GRAZON	0.635 lb ai/a		2 pt/a		A	23 a
5	ACTIVATOR 90	0.25 % v/v		6.4 oz/a			
6	GRAZON	0.95 lb ai/a		3 pt/a		A	17 a
6	ACTIVATOR 90	0.25 % v/v		6.4 oz/a			
7	2,4-D	1 lb ai/a		2 pt/a		A	0 a
7	ACTIVATOR 90	0.25 % v/v		6.4 oz/a			
8	2,4-D	1 lb ai/a		2 pt/a		A	19 a
8	ACTIVATOR 90	0.25 % v/v		6.4 oz/a			
9	BANVEL	0.5 lb ai/a		1 pt/a		A	13 a
9	2,4-D	1 lb ai/a		2 pt/a			
9	ACTIVATOR 90	0.25 % v/v		6.4 oz/a			
10	CURTAIL	1.19 lb ai/a		2 qt/a		A	7 a
10	ACTIVATOR 90	0.25 % v/v		6.4 oz/a			
11	CIMMARON MAX						17 a
11	ALLY	0.0094 lb ai/a		0.25 oz/a		A	
11	WEEDMASTER	0.484 lb ai/a		1 pt/a			
11	ACTIVATOR 90	0.25 % v/v		6.4 oz/a			
12	UTC						0 a
LSD (P=.05)							31.0
Standard Deviation							18.0
CV							139.01
Bartlett's X2							4.447
P(Bartlett's X2)							0.815
Replicate F							1.154
Replicate Prob(F)							0.3388
Treatment F							0.640
Treatment Prob(F)							0.7726

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.