

University of GA Coop Ext Service

Brush Control Demonstration with Basal Herbicides - NON-REPLICATED DEMONSTRATION

Trial ID: NCROP2-03

Study Dir.: Bill Nutt

Location: WestBrook Farm

Investigator: Tim R Murphy

GENERAL TRIAL INFORMATION

Study Director: Bill Nutt

Title: ARC I

Affiliation: UGA-CAES

Investigator: Tim R Murphy

Title: Weed Scientist

Affiliation: UGA-CAES

TRIAL LOCATION

City: WestBrook Farm

Trial Status:

ESTABLISHED

State/Prov.: GA

Initiation Date:

1-14-2003

COOPERATOR/LANDOWNER

Cooperator: Todd Horton

Org: BASF

CROP AND WEED DESCRIPTION

Weed	Code	Common Name	Scientific Name
1.	QUEPH	Quercus phellos	Oak, willow
2.	QUENI	Quercus nigra	Oak, water
3.	QUESL	Quercus stellata	Oak, post
4.	QUEFC	Quercus falcata	Oak, Southern red
5.	ACRRB	Acer rubrum	Maple, soft
6.	LIQST	Liquidambar styraciflua	Sweetgum
7.	RHUCO	Rhus copallina	Shining sumac
8.	QUEAL	Quercus alba	Oak, white
9.	RUBAG	Rubus argutus	Blackberry, highbush
10.	SMISS	Smilax sp.	Greenbriar

Crop 1: PINTA PINE, LOBLOLLY

SITE AND DESIGN

Plot Width, Unit: 10 FT Plot Length, Unit: 40 FT Reps: 1

Site Type: noncropland brush

Study Design: RANDOMIZED COMPLETE BLOCK

Trial Initiation Comments: Sprayed 10 ft. center of 15 ft. wide plot.

APPLICATION DESCRIPTION

	A
Application Date:	1-14-2003
Time of Day:	11 a.m
Application Method:	basal
Application Timing:	post
Applic. Placement:	bark
Air Temp., Unit:	54 F
% Relative Humidity:	41
Wind Velocity, Unit:	2 MPH
Dew Presence (Y/N):	N
Soil Temp., Unit:	45 F
Soil Moisture:	Good

WEED STAGE AT EACH APPLICATION

	A
Weed 1 Code, Stage:	QUEPH 6-12 ft
Stage Scale:	0.6-1.2"d
Density, Unit:	5 %
Weed 2 Code, Stage:	QUENI 6-15 ft
Stage Scale:	0.7-1.4"d
Density, Unit:	15 %
Weed 3 Code, Stage:	QUESL 6-10 ft
Stage Scale:	1.0-2.0"d
Density, Unit:	10 %
Weed 4 Code, Stage:	QUEFC 4-8 ft
Stage Scale:	0.5-1.0"d
Density, Unit:	10 %
Weed 5 Code, Stage:	ACRRB 6-7 ft
Stage Scale:	0.5"d
Density, Unit:	1 %
Weed 6 Code, Stage:	LIQST 6-12 ft
Stage Scale:	0.5-1.5"d
Density, Unit:	15 %
Weed 7 Code, Stage:	RHUCO 4-6 ft
Stage Scale:	0.5"d
Density, Unit:	5 %
Weed 8 Code, Stage:	QUEAL 10-14 ft
Stage Scale:	1.2-1.5"d
Density, Unit:	2 %
Weed 9 Code, Stage:	RUBAG 4 ft
Stage Scale:	0.4"d
Density, Unit:	10 %

Weed10 Code, Stage:	SMISS 3 ft
Stage Scale:	0.2" d
Density, Unit:	2 %

APPLICATION EQUIPMENT

	A
Appl. Equipment:	Backpack
Operating Pressure:	32 psi
Nozzle Type:	cone-jet
Nozzle Size:	5500 X8
Nozzles/Row:	1
Carrier:	basal oil
Spray Volume, Unit:	25 gpa
Propellant:	CO2
Tank Mix (Y/N):	Y

Trial Comments

1-14-03: Bark Oil EC Blue - Timberland, contains blue dye. Sprayed lower 18 inches of stems of various hardwood trees, blackberry, greenbrier and loblolly pine.

5-23-03: Stalker injury to loblolly pine was stunted growth on new needles. (NOTE: In this demonstration loblolly pines were intentionally sprayed.

Weed Code						QUEPH	QUEPH	QUENI	QUENI	QUESL		
Rating Data Type						CONTRO	CONTRO	CONTRO	CONTRO	CONTRO		
Rating Unit						0-100	0-100	0-100	0-100	0-100		
Rating Date						5-23-2003	8-21-2003	5-23-2003	8-21-2003	5-23-2003		
Trt-Eval Interval						129 DA-A	219 DA-A	129 DA-A	219 DA-A	129 DA-A		
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	Appl Code	1	2	3	4	5
1	Untreated Check							0	0	0	0	0
2	Garlon 4	4	EC	25 % v/v		DORMANT A		100	100	100	100	100
	Bark Oil EC Blue			75 % v/v		DORMANT A						
3	Stalker	2	EC	9.37 % v/v		DORMANT A		100	100	100	100	100
	Bark Oil EC Blue			90.6 % v/v		DORMANT A						
4	Garlon 4	4	EC	20 % v/v		DORMANT A		100	100	100	100	100
	Stalker	2	EC	2.0 % v/v		DORMANT A						
	Bark Oil EC Blue			78.0 % v/v		DORMANT A						
5	Garlon 4	4	EC	15 % v/v		DORMANT A		100	100	100	100	100
	Stalker	2	EC	3.0 % v/v		DORMANT A						
	Bark Oil EC Blue			82.0 % v/v		DORMANT A						

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Weed Code							QUESL	QUEFC	QUEFC	ACRRB	ACRRB	
Rating Data Type							CONTRO	CONTRO	CONTRO	CONTRO	CONTROL	
Rating Unit							0-100	0-100	0-100	0-100	0-100	
Rating Date							8-21-2003	5-23-2003	8-21-2003	5-23-2003	8-21-2003	
Trt-Eval Interval							219 DA-A	129 DA-A	219 DA-A	129 DA-A	219 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	Appl Code	6	7	8	9	10
1	Untreated Check							0	0	0	0	0
2	Garlon 4	4	EC	25 % v/v		DORMANT	A	100	100	100	100	100
	Bark Oil EC Blue			75 % v/v		DORMANT	A					
3	Stalker	2	EC	9.37 % v/v		DORMANT	A	100	100	100	100	100
	Bark Oil EC Blue			90.6 % v/v		DORMANT	A					
4	Garlon 4	4	EC	20 % v/v		DORMANT	A	100	100	100	100	100
	Stalker	2	EC	2.0 % v/v		DORMANT	A					
	Bark Oil EC Blue			78.0 % v/v		DORMANT	A					
5	Garlon 4	4	EC	15 % v/v		DORMANT	A	100	100	100	100	100
	Stalker	2	EC	3.0 % v/v		DORMANT	A					
	Bark Oil EC Blue			82.0 % v/v		DORMANT	A					

Weed Code							LIQST	LIQST	PINTA	PINTA	RHUCO	
Rating Data Type							CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit							0-100	0-100	0-100	0-100	0-100	
Rating Date							5-23-2003	8-21-2003	5-23-2003	8-21-2003	5-23-2003	
Trt-Eval Interval							129 DA-A	219 DA-A	129 DA-A	219 DA-A	129 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	Appl Code	11	12	13	14	15
1	Untreated Check							0	0	0	0	0
2	Garlon 4	4	EC	25 % v/v		DORMANT	A	100	100	50	40	90
	Bark Oil EC Blue			75 % v/v		DORMANT	A					
3	Stalker	2	EC	9.37 % v/v		DORMANT	A	98	95	10	30	100
	Bark Oil EC Blue			90.6 % v/v		DORMANT	A					
4	Garlon 4	4	EC	20 % v/v		DORMANT	A	100	95	60	60	100
	Stalker	2	EC	2.0 % v/v		DORMANT	A					
	Bark Oil EC Blue			78.0 % v/v		DORMANT	A					
5	Garlon 4	4	EC	15 % v/v		DORMANT	A	100	100	40	95	100
	Stalker	2	EC	3.0 % v/v		DORMANT	A					
	Bark Oil EC Blue			82.0 % v/v		DORMANT	A					

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Weed Code							RHUCO	RUBAG	RUBAG	SMISS	SMISS	
Rating Data Type							CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	
Rating Unit							0-100	0-100	0-100	0-100	0-100	
Rating Date							8-21-2003	5-23-2003	8-21-2003	5-23-2003	8-21-2003	
Trt-Eval Interval							219 DA-A	129 DA-A	219 DA-A	129 DA-A	219 DA-A	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	Appl Code	16	17	18	19	20
1	Untreated Check							0	0	0	0	0
2	Garlon 4	4	EC	25 % v/v	DORMANT	A		40	100	100	90	100
	Bark Oil EC Blue			75 % v/v	DORMANT	A						
3	Stalker	2	EC	9.37 % v/v	DORMANT	A		100	100	90	100	100
	Bark Oil EC Blue			90.6 % v/v	DORMANT	A						
4	Garlon 4	4	EC	20 % v/v	DORMANT	A		100	100	100	100	100
	Stalker	2	EC	2.0 % v/v	DORMANT	A						
	Bark Oil EC Blue			78.0 % v/v	DORMANT	A						
5	Garlon 4	4	EC	15 % v/v	DORMANT	A		100	100	100	95	90
	Stalker	2	EC	3.0 % v/v	DORMANT	A						
	Bark Oil EC Blue			82.0 % v/v	DORMANT	A						

Weed Code							QUEAL
Rating Data Type							CONTRO
Rating Unit							0-100
Rating Date							5-23-2003
Trt-Eval Interval							129 DA-A
# Subsamples, Dec.							0
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Grow Unit	Stg	Appl Code
1	Untreated Check						21
2	Garlon 4	4	EC	25 % v/v	DORMANT	A	100
	Bark Oil EC Blue			75 % v/v	DORMANT	A	
3	Stalker	2	EC	9.37 % v/v	DORMANT	A	100
	Bark Oil EC Blue			90.6 % v/v	DORMANT	A	
4	Garlon 4	4	EC	20 % v/v	DORMANT	A	100
	Stalker	2	EC	2.0 % v/v	DORMANT	A	
	Bark Oil EC Blue			78.0 % v/v	DORMANT	A	
5	Garlon 4	4	EC	15 % v/v	DORMANT	A	100
	Stalker	2	EC	3.0 % v/v	DORMANT	A	
	Bark Oil EC Blue			82.0 % v/v	DORMANT	A	