

Washington State University

Reflex Synergism with Lorox for Mayweed Chamomile Control Peas or Garbs

Trial ID: ICB5011 Protocol ID: ICB5011
 Location: Pullman Study Director:
 Project ID: Investigator: Dr. Ian C. Burke
 Sponsor Contact:

General Trial Information

Study Director: Dr. Ian C. Burke **Title:** Assistant Professor
Investigator: Dr. Ian C. Burke **Title:** Assistant Professor

Trial Location

City: Pullman
State/Prov.: Washington

Personnel

Study Director: Dr. Ian C. Burke **Title:** Assistant Professor
Affiliation: Washington State University
Address: 171 Johnson Hall
Location: Pullman, WA
Postal Code: 99164-6420 **E-mail:** icburke@wsu.edu
Phone No.: 509.335.2858
Investigator: Dr. Ian C. Burke **Title:** Assistant Professor
Affiliation: Washington State University
Postal Code: 99164 **E-mail:** icburke@wsu.edu

Cooperator/Landowner

Cooperator: Gil Cook
Organization: TKI NovaSource
State/Prov: WA **Phone No.:** 5099811716
E-mail: cookge@comcast.com

Crop Description

Variety: Chickpea
 Sierra
Planting Method: HORSCH **Planting Date:** May-15-2011
Depth, Unit: 1.5 IN **Rate, Unit:** 160 LB/A
Row Spacing, Unit: 6 IN
Seed Bed: COARSE coarse
Soil Moisture: WET wet
Harvest Date: Sep-20-2011 **Harvest Equipment:** Kincaid 8 XP
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 30 FT

Site and Design

Plot Width, Unit: 8 FT
Plot Length, Unit: 30 FT
Plot Area, Unit: 240 FT²
Replications: 4 **Study Design:** RACOBL Randomized Complete Block (RCB)

Soil Description

Description Name: Silt Loam Cook West
% Sand: 23.0 **% OM:** 5.1
% Silt: 54.5 **pH:** 5.1
% Clay: 22.5 **CEC:** 28.6
Analyzed By:
 Northwest Agricultural Consultants

Washington State University

Application Description

	A
Application Date:	May-20-2011
Time of Day:	1100
Application Method:	CO2 BP
Application Timing:	PREEMERGE
Application Placement:	SOIL
Applied By:	RR
Air Temperature, Unit:	69.8 F
% Relative Humidity:	31
Wind Velocity, Unit:	2.8 MPH
Wind Direction:	SW
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	9 C
Soil Moisture:	DAMP
% Cloud Cover:	0
Next Rain Occurred On:	May-21-2011

Crop Stage At Each Application

	A
Stage Scale Used:	DESC
Stage Majority, Percent:	PREEMERG

Pest Stage At Each Application

	A
Stage Majority, Percent:	PREE

Application Equipment

	A
Appl. Equipment:	CO2 BP
Equipment Type:	SPRAY
Operation Pressure, Unit:	35 PSI
Nozzle Type:	FLAT FAN
Nozzle Size:	8015
Nozzle Spacing, Unit:	18 IN
Nozzles/Row:	4
Boom Length, Unit:	6 FT
Boom Height, Unit:	24 IN
Ground Speed, Unit:	3 MPH
Carrier:	H2O
Spray Volume, Unit:	15 gal/ac
Mix Size, Unit:	1.5 liters

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Pest Type	W Weed	W Weed	W Weed		
Pest Code	ANTCO	ANTCO	ANTCO		
Pest Scientific Name	Anthemis cotula	Anthemis cotula	Anthemis cotula		
Pest Name	Mayweed chamom>	Mayweed chamom>	Mayweed chamom>		
Crop Name				Chickpea	
Part Rated	Foliar -	Foliar -	Foliar -	Beans -	
Rating Date	May-31-2011	Jun-16-2011	Jul-5-2011	Sep-26-2011	
Rating Type	CONTROL	CONTROL	CONTROL	YIELD	
Rating Unit	%	%	%	LB	
Number of Subsamples	1	1	1	1	
Assessed By	ICB	ICB	Alan R.		
Days After First/Last Applic.	11 11	27 27	46 46	129 129	
Trt-Eval Interval	11 DA-A	27 DA-A	55 DA-A	129 DA-A	
Plant-Eval Interval	16 DP-1	32 DP-1	51 DP-1	134 DP-1	
ARM Action Codes				TY1	
Number of Decimals				2	
Trt No.	Treatment Name	Rate	Appl Unit	Code	
					1 2 3 6
1	Reflex Lorox	12 oz/a	A		99.0 99.0 99.0 995.66
		40 oz/a	A		
2	Reflex Lorox	12 oz/a	A		99.0 98.5 98.5 944.53
		32 oz/a	A		
3	Reflex Lorox	12 oz/a	A		99.0 96.8 95.5 1041.90
		24 oz/a	A		
4	Reflex Lorox	6 oz/a	A		99.0 99.0 99.0 673.31
		40 oz/a	A		
5	Reflex Lorox	6 oz/a	A		99.0 96.8 96.0 744.01
		32 oz/a	A		
6	Reflex Lorox	6 oz/a	A		99.0 98.0 97.5 762.49
		24 oz/a	A		
7	Reflex Lorox	3 oz/a	A		99.0 98.0 98.0 804.78
		40 oz/a	A		
8	Reflex Lorox	3 oz/a	A		99.0 98.5 98.5 787.83
		32 oz/a	A		
9	Reflex Lorox	3 oz/a	A		99.0 98.5 97.5 1074.23
		24 oz/a	A		
10	Reflex	12 oz/a	A		99.0 97.5 97.0 960.40
11	Reflex	6 oz/a	A		99.0 99.0 99.0 957.73
12	Reflex	6 oz/a	A		99.0 98.5 98.0 770.85
13	Reflex	3 oz/a	A		99.0 94.3 91.0 887.48
14	Lorox	40 oz/a	A		99.0 97.0 96.5 853.37
15	Lorox	32 oz/a	A		99.0 96.8 93.8 628.32
16	Lorox	24 oz/a	A		99.0 97.5 97.0 773.34
17	Glyphosate	19.2 oz/a	A		93.0 70.0 0.0 722.43
LSD (P=.05)		1.23			6.51 6.15 480.760
Standard Deviation		0.86			4.56 4.31 336.416
CV		0.88			4.74 4.72 39.76