

Washington State University

STARANE FLEX EFFICACY AGAINST BROADLEAF WEEDS IN SPRING WHEAT

Trial ID: ICB2811 Protocol ID: ICB2811
 Location: Cook Farm Study Director: Dr. Ian C. Burke
 Project ID: JPY11041 Investigator: Dr. Ian C. Burke
 Sponsor Contact: Dr. Joseph Yenish / Dow AgroSciences

General Trial Information

Study Director: Dr. Ian C. Burke
Investigator: Dr. Ian C. Burke

Trial Location

City: Pullman
State/Prov.: Washington

Personnel

Study Director: Dr. Ian C. Burke
Investigator: Dr. Ian C. Burke

Crop Description

Spring Wheat
Variety: Louise
Planting Method: HORSCH
Depth, Unit: 1 IN
Row Spacing, Unit: 12 IN
Seed Bed: CLOTRA cloddy/trashy
Soil Moisture: WET wet
Harvest Date: Sep-13-2011
Harvested Width, Unit: 5 FT
Planting Date: Mar-27-2011
Rate, Unit: 80 LB/A
Spacing Within Row, Unit: 6 IN
Harvest Equipment: Kincaid 8 XP
Harvested Length, Unit: 30 FT

Pest Description

Pest 1 Type: W **Code:** ANTCO Anthemis cotula
Common Name: Mayweed chamomile
Pest 2 Type: W **Code:** SONAS Sonchus asper
Common Name: Spiny sowthistle
Pest 3 Type: W **Code:** LAMAM Lamium amplexicaule
Common Name: Henbit
Pest 4 Type: W **Code:** LACSE Lactuca serriola
Common Name: Prickly lettuce

Site and Design

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

Soil Description

Description Name: Silt Loam Cook West
% Sand: 26.3 **% OM:** 2.46
% Silt: 59.7 **pH:** 5.1
% Clay: 14 **CEC:** 20.3
Analyzed By:
 Northwest Agricultural Consultants

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Application Description

	A
Application Date:	Jun-9-2011
Time of Day:	1430
Application Method:	SPRAY
Application Timing:	POSPOS
Application Placement:	FOLIAR
Applied By:	RR
Air Temperature, Unit:	61 F
% Relative Humidity:	37
Wind Velocity, Unit:	2.8 MPH
Wind Direction:	SSW
Dew Presence (Y/N):	N no
Soil Moisture:	12
% Cloud Cover:	90

Crop Stage At Each Application

	A
Stage Scale Used:	BBCH
Stage Majority, Percent:	22 31 80
Stage Minimum, Percent:	14 20
Height, Unit:	6 IN
Crop coverage (%):	25

Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	ANTCO W
Stage Majority, Percent:	Rose 100
Diameter, Unit:	2 IN
Density, Unit:	6 Plants
Coverage, Unit:	1 M2
Pest 2 Code, Type, Scale:	SONAS W
Stage Majority, Percent:	3-5 lf 80
Stage Minimum, Percent:	2 lf 20
Diameter, Unit:	0.5 IN
Density, Unit:	2 Plants
Coverage, Unit:	1 M2
Pest 3 Code, Type, Scale:	LAMAM W
Stage Majority, Percent:	5 lf 80
Stage Minimum, Percent:	2 lf 20
Diameter, Unit:	1 IN
Density, Unit:	9 Plants
Coverage, Unit:	1 M2
Pest 4 Code, Type, Scale:	LACSE W
Stage Majority, Percent:	2 lf 80
Stage Minimum, Percent:	Coty
Diameter, Unit:	1 In
Density, Unit:	3 Plants
Coverage, Unit:	1 M2

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Application Equipment

	A
Appl. Equipment:	SPRAY
Equipment Type:	CO2 BP
Operation Pressure, Unit:	24 PSI
Nozzle Type:	VR
Nozzle Size:	11002 VS
Nozzle Spacing, Unit:	18 IN
Nozzles/Row:	4
Boom Length, Unit:	6 FT
Boom Height, Unit:	15 IN
Ground Speed, Unit:	3 MPH
Carrier:	H2O
Spray Volume, Unit:	15 gal/ac
Mix Size, Unit:	1.5 liters
Propellant:	CO2

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Pest Type	W Weed	W Weed		
Pest Code	CHEAL	ANTCO		
Pest Scientific Name	Chenopodium al>	Anthemis cotula		
Pest Name	Common lambsqu>	Mayweed chamom>		
Crop Name			Spring Wheat	Spring Wheat
Part Rated			Seed -	Seed -
Rating Date	Jul-22-2011	Jul-22-2011	Sep-13-2011	Sep-13-2011
Rating Type	CONTROL	CONTROL	Test Weight	Yield
Rating Unit	%	%	lbs/bu	Bu/A
Number of Subsamples	1	1	1	1
Assessed By	Nevin L.	Nevin L.		
Days After First/Last Applic.	43 43	43 43	96 96	96 96
Trt-Eval Interval			96 DA-A	96 DA-A
Plant-Eval Interval	117 DP-1	117 DP-1	170 DP-1	170 DP-1
ARM Action Codes				
Number of Decimals				
Trt No.	Treatment Name	Rate	Appl Unit	Code
1	CHECK			
2	STARANE FLEX	13.5 fl oz/a	A	
3	STARANE FLEX MCPA ESTER	13.5 fl oz/a 8.63 fl oz/a	A A	
4	STARANE FLEX 2,4-D ESTER LV	13.5 fl oz/a 8.55 fl oz/a	A A	
5	AFFINITY TANK MIX MCPA ESTER NIS	0.6 oz/a 12.95 fl oz/a 0.25 % v/v	A A A	
6	HUSKIE AMS	11 fl oz/a 0.502 lb/a	A A	
7	STARANE FLEX HUSKIE	13.5 fl oz/a 11 fl oz/a	A A	
8	BRONATE ADVANCED STARANE FLEX	0.8 pt/a 13.5 fl oz/a	A A	
9	BRONATE ADVANCED	0.8 pt/a	A	
LSD (P=.05)		9.06		7.00
Standard Deviation		6.21		4.80
CV		7.43		5.92
				3.3553
				2.2990
				3.97
				36.1431
				24.7645
				39.43