

Washington State University

COMPARISON OF RATES OF HUSKIE and TANKMIX PARTNER for CONTROL of BEDSTRAW (GALIUM)

Trial ID: ICB3111 Protocol ID: ICB3111
 Location: PCFS Study Director:
 Project ID: Investigator: Dr. Ian C. Burke
 Sponsor Contact: DEAN CHRISTIE / BAYER CROPS SCIENCE

General Trial Information

Investigator: Dr. Ian C. Burke

Trial Location

City: Pullman
State/Prov.: Washington

Personnel

Investigator: Dr. Ian C. Burke

Crop Description

Spring Wheat
Variety: Louise
Planting Method: DRILL
Depth, Unit: 1 IN
Row Spacing, Unit: 10 In
Seed Bed: NO-TIL
Soil Moisture: WET wet
Harvest Date: Sep-21-2011
Harvested Width, Unit: 5 FT
Planting Date: May-4-2011
Rate, Unit: 100 LB/A
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:** CHEAL Chenopodium album
Common Name: Common lambsquarters

Pest 3 Type: W **Code:** AMARE Amaranthus retroflexus
Common Name: Redroot pigweed

Pest 4 Type: W **Code:** GALAP Galium aparine
Common Name: Catchweed bedstraw

Pest 5 Type: W **Code:** AMSIN Amsinckia intermedia
Common Name: Coast fiddleneck

Pest 6 Type: W **Code:** POLCO Fallopia convolvulus
Common Name: wild buckwheat

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)

Trial Initiation Comments:

Trial sowed with CrossSlot Drill in a no till rotation following an application of Glyphosate.

Soil Description

Description Name: Silt Loam PCFS
% Sand: 32.5 **% OM:** 3.53
% Silt: 56.3 **pH:** 5.0
% Clay: 11.2 **CEC:** 23.6
Analyzed By:
 Northwest Agricultural Consultants

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Application Description

	A
Application Date:	Jun-9-2011
Time of Day:	1500
Application Method:	SPRAY
Application Timing:	POSPOS
Application Placement:	FOLIAR
Applied By:	RR
Air Temperature, Unit:	62 F
% Relative Humidity:	37
Wind Velocity, Unit:	2 MPH
Wind Direction:	SW
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	12 C
Soil Moisture:	DRY
% Cloud Cover:	90

Crop Stage At Each Application

	A
Stage Scale Used:	DESC
Stage Majority, Percent:	20 100
Height, Unit:	7.5 IN
Height Minimum, Maximum:	6 9
Plant Foliage Height, Unit:	9 IN
Crop coverage (%):	25

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Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	ANTCO W
Stage Majority, Percent:	2-4 Br 100
Diameter, Unit:	2 IN
Height, Unit:	0.5 IN
Height Minimum, Maximum:	0.5 3
Density, Unit:	109 Plants
Coverage, Unit:	1 M2
Pest 2 Code, Type, Scale:	CHEAL W
Stage Majority, Percent:	Coty 80
Diameter, Unit:	2 IN
Height, Unit:	0.5 IN
Height Minimum, Maximum:	0.5 3
Density, Unit:	11 Plants
Coverage, Unit:	1 M2
Pest 3 Code, Type, Scale:	AMARE W
Stage Majority, Percent:	4 Lf 100
Diameter, Unit:	0.5 IN
Density, Unit:	23 Plants
Coverage, Unit:	1 M2
Pest 4 Code, Type, Scale:	GALAP W
Stage Majority, Percent:	4 node 100
Height, Unit:	2 IN
Density, Unit:	29 Plants
Coverage, Unit:	1 M2
Pest 5 Code, Type, Scale:	AMSIN W
Stage Majority, Percent:	2-4 lf 100
Height, Unit:	3 IN
Density, Unit:	6 Plants
Coverage, Unit:	1 M2
Pest 6 Code, Type, Scale:	POLCO W
Stage Majority, Percent:	2-4 lf 100
Height, Unit:	2 IN
Density, Unit:	2 Plants
Coverage, Unit:	1 M2

Application Equipment

	A
Appl. Equipment:	SPRAY
Equipment Type:	CO2 BP
Operation Pressure, Unit:	24 PSI
Nozzle Type:	XR
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	W Weed	W Weed
Pest Code	GALAP	AMSIN	ANTCO	CHEAL
Pest Scientific Name	Galium aparine	Amsinckia inte>	Anthemis cotula	Chenopodium al>
Pest Name	Catchweed beds>	Coast fiddlene>	Mayweed chamom>	Common lambsqu>
Crop Name				
Part Rated	FOLIAG -	FOLIAG -	FOLIAG -	FOLIAG -
Rating Date	Jul-7-2011	Jul-7-2011	Aug-8-2011	Aug-8-2011
Rating Type	CONTROL	CONTROL	CONTROL	CONTROL
Rating Unit	%	%	%	%
Number of Subsamples	1	1	1	1
Assessed By	ICB	ICB	ICB	ICB
Days After First/Last Applic.	28 28	28 28	60 60	60 60
Trt-Eval Interval	28 DA-A	28 DA-A	60 DA-A	60 DA-A
Plant-Eval Interval	64 DP-1	64 DP-1	96 DP-1	96 DP-1
ARM Action Codes				
Number of Decimals				
Trt No.	Treatment Name	Rate	Appl Code	
		Rate Unit		
				5 6 7 8
1	UNTREATED			0.0 0.0 0.0 0.0
2	HUSKIE UAN	11.0 oz/a 1 qt/a	A A	96.3 99.0 98.0 94.3
3	HUSKIE STARANE FLEX UAN NIS	13.5 oz/a 9.0 oz/a 1 qt/a 0.5 % v/v	A A A A	97.5 99.0 99.0 98.5
4	HUSKIE STARANE FLEX UAN NIS	13.5 oz/a 13.5 oz/a 1 qt/a 0.5 % v/v	A A A A	99.0 99.0 99.0 94.5
5	HUSKIE WIDEMATCH UAN	13.5 oz/a 12.0 oz/a 1 qt/a	A A A	74.3 74.3 74.3 74.3
6	HUSKIE ORION UAN NIS	13.5 oz/a 17.0 oz/a 1 qt/a 0.5 % v/v	A A A A	99.0 99.0 99.0 99.0
7	MCPA/Rhomene	1 pt/a	A	30.0 17.5 15.0 57.5
8	Clopyralid	1 pt/a	A	49.8 72.0 98.0 96.8
9	Starane	1 pt/a	A	95.8 86.3 20.0 72.5
10	Florasulam NIS	1.34 fl oz/a 0.5 % v/v	A A	61.3 86.0 75.0 81.3
LSD (P=.05)				35.32 31.76 30.00 29.91
Standard Deviation				24.34 21.89 20.67 20.61
CV				34.64 29.91 30.53 26.82