

Washington State University

Axiom followed by Osprey-Grass Weeds

Trial ID: ICB2211 Protocol ID: ICB2211
 Location: Cook Farm Study Director:
 Project ID: Investigator: Dr. Ian C. Burke
 Sponsor Contact:

General Trial Information

Investigator: Dr. Ian C. Burke

Initiation Date: Oct-18-2010

Trial Location

City: Pullman **Latitude of LL Corner °:** 46.46841 N
State/Prov.: Washington **Longitude of LL Corner °:** 117.05608 W
Postal Code: 99163 **Altitude of LL Corner, Unit:** 2589.00 FT
Country: USA United States

Directions:
 Cook Farm-Whelan Rd.

Personnel

Investigator: Dr. Ian C. Burke

Crop Description

Winter Wheat
Variety: Brundage 96

Planting Date: Oct-18-2010
Rate, Unit: 100 LB/A

Planting Method: HORSCH

Depth, Unit: 1.5 IN

Row Spacing, Unit: 12 IN

Seed Bed: CLOTRA cloddy/trashy

Soil Moisture: DRY dry

Harvest Date: Aug-23-2011

Harvested Width, Unit: 5 FT

Soil Temperature, Unit: 8 C

Harvest Equipment: Kincaid 8 XP

Harvested Length, Unit: 32 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:** BROTE Bromus tectorum
Common Name: Downy brome

Pest 4 Type: W **Code:** LOLMU Lolium multiflorum
Common Name: Italian ryegrass

Pest 5 Type: W **Code:** LACSE Lactuca serriola
Common Name: Prickly lettuce

Site and Design

Plot Width, Unit: 8 FT

Plot Length, Unit: 35 FT

Plot Area, Unit: 280 FT²

Replications: 4

Study Design: RAOBL Randomized Complete Block (RCB)

Soil Description

Description Name: Silt Loam Cook West

% Sand: 25 **% OM:** 2.55

% Silt: 56 **pH:** 5.2

% Clay: 19 **CEC:** 27.6

Analyzed By:

Northwest Agricultural Consultants!

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Application Description

	A	B
Application Date:	Oct-19-2010	May-11-2011
Time of Day:	1300	1030
Application Method:	SPRAY	CO2BP
Application Timing:	PREE	POSPOS
Application Placement:	SOIL	FOLIAR
Applied By:	RR	RR
Air Temperature, Unit:	62.4 F	61.2 F
% Relative Humidity:	35	45
Wind Velocity, Unit:	3.5 MPH	6.1 MPH
Wind Direction:	ESE	SE
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	8 C	10 C
Soil Moisture:	DRY	DRY
% Cloud Cover:	0	0

Crop Stage At Each Application

	A	B
Stage Scale Used:	PREE	BBCH
Stage Majority, Percent:		tiller 100
Stage Minimum, Percent:		2 50
Stage Maximum, Percent:		4 50
Height, Unit:		9 IN
Height Minimum, Maximum:		8 10
Crop coverage (%):		50

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	ANTCO W	ANTCO W
Stage Majority, Percent:	NA	Coty1 100
Diameter, Unit:		0.5 IN
Density, Unit:		3 Plants
Coverage, Unit:		1 M2
Pest 2 Code, Type, Scale:	SONAS W	SONAS W
Stage Majority, Percent:		2 lf 100
Diameter, Unit:		0.5 IN
Density, Unit:		26 Plants
Coverage, Unit:		1 M2
Pest 3 Code, Type, Scale:	BROTE W	BROTE W
Stage Majority, Percent:		2 till
Height, Unit:		1 IN
Height Minimum, Maximum:		0.5 2
Density, Unit:		6 Plants
Coverage, Unit:		1 M2
Pest 4 Code, Type, Scale:	LOLMU W	LOLMU W
Stage Majority, Percent:		2-3 lf 100
Height, Unit:		2 IN
Density, Unit:		10 Plants
Coverage, Unit:		1 m2
Pest 5 Code, Type, Scale:	LACSE W	LACSE W
Stage Majority, Percent:		2 lf 100
Density, Unit:		2 Plants
Coverage, Unit:		1 M2

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Application Equipment

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

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Pest Type	W Weed	W Weed		
Pest Code	LOLMU	LOLMU		
Pest Scientific Name	Lolium multifl>	Lolium multifl>		
Pest Name	Italian ryegra>	Italian ryegra>		
Crop Name			Winter Wheat	Winter Wheat
Part Rated	Foliag P	Foliag P	SEED -	SEED -
Rating Date	Jul-5-2011	Aug-11-2011	Aug-23-2011	Aug-23-2011
Rating Type	CONTROL	CONTROL	Test Wt.	YIELD
Rating Unit	%	%	Lbs/bu	BU
Number of Subsamples	1	1	1	1
Assessed By	Nevin L.	ICB		
Days After First/Last Applic.	259 55	296 92	308 104	308 104
Plant-Eval Interval	260 DP-1	297 DP-1	309 DP-1	309 DP-1
ARM Action Codes				TY1
Number of Decimals				2
Trt Treatment				
No. Name	Rate Unit	Code		
	3	4	7	9
1 Untreated	0.0	0.0	58.560	75.63
2 AXIOM 10 oz/a A	40.0	71.3	58.530	84.44
3 KIH-485 1.68 oz/a A	50.0	70.0	58.555	84.99
4 AXIOM 10 oz/a A OSPREY 4.75 oz/a B NIS 0.5 % v/v B UAN 4 pt/a B	72.5	87.5	58.453	81.78
5 OSPREY 4.75 oz/a B NIS 0.5 % v/v B UAN 4 pt/a B	67.5	77.3	58.708	72.07
LSD (P=.05)	15.60	11.70	1.0023	10.230
Standard Deviation	10.12	7.59	0.6505	6.639
CV	22.01	12.41	1.11	8.32