

Washington State University

Axiom followed by Olympus-Grass Weeds

Trial ID: ICB0411 Protocol ID: ICB0411
 Location: Wilke Study Director:
 Project ID: Investigator: Dr. Ian C. Burke
 Sponsor Contact: Bayer CropScience

General Trial Information

Investigator: Dr. Ian C. Burke

Initiation Date: Sep-28-2010

Trial Location

City: Davenport **Latitude of LL Corner °:** 4739078 N
State/Prov.: Washington **Longitude of LL Corner °:** 11807686 W
Altitude of LL Corner, Unit: 2469.00 FT

Personnel

Investigator: Dr. Ian C. Burke

Crop Description

Winter Wheat
Variety: Eltan/Madsen

Planting Date: Sep-28-2010
Rate, Unit: 70 LB/A

Planting Method: GP 3PT
Depth, Unit: 1 IN
Row Spacing, Unit: 7.5 IN
Seed Bed: MEDIUM medium **Soil Temperature, Unit:** 12 C
Soil Moisture: MOIST
Harvest Date: Sep-7-2011 **Harvest Equipment:** Kincaid 8 XP
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 38 FT

Pest Description

Pest 1 Type: W **Code:** LACSE *Lactuca serriola*
Common Name: Prickly lettuce

Pest 2 Type: W **Code:** SSYAL *Sisymbrium altissimum*
Common Name: Tumble mustard

Pest 3 Type: W **Code:** BROTE *Bromus tectorum*
Common Name: Downy brome

Site and Design

Plot Width, Unit: 8 FT
Plot Length, Unit: 35 FT
Plot Area, Unit: 280 FT²
Replications: 4 **Study Design:** RACOBL Randomized Complete Block (RCB)

Application Description

	A	B
Application Date:	Oct-1-2010	May-19-2011
Time of Day:	0930	1030
Application Method:	CO2 BP	CO2 BP
Application Timing:	PREE	POSPOS
Application Placement:	SOIL	FOLIAR
Applied By:	RR	RR
Air Temperature, Unit:	66.4 F	64 F
% Relative Humidity:	44	29
Wind Velocity, Unit:	6.2 MPH	2.9 MPH
Wind Direction:	ENE	SE
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	12 C	9 C
Soil Moisture:	DRY	DRY
% Cloud Cover:	0	5

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Crop Stage At Each Application

	A	B
Stage Scale Used:	PREE	DESC
Stage Majority, Percent:		tiller 100
Stage Minimum, Percent:		2j 2 t 100
Height, Unit:		8 IN
Height Minimum, Maximum:		6 12

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	LACSE W	LACSE W
Stage Majority, Percent:	NA	Rose 100
Stage Minimum, Percent:		7 lf 50
Diameter, Unit:		1 In
Density, Unit:		5 Plants
Coverage, Unit:		1 M2
Pest 2 Code, Type, Scale:	SSYAL W	SSYAL W
Stage Majority, Percent:		Rose 100
Stage Minimum, Percent:		11 lf
Diameter, Unit:		4 In
Density, Unit:		3 Plants
Coverage, Unit:		1 M2
Pest 3 Code, Type, Scale:	BROTE W	BROTE W
Stage Majority, Percent:		Till 100
Stage Minimum, Percent:		3 till 100
Height, Unit:		3 In
Density, Unit:		1 Plant
Coverage, Unit:		1 M2

Application Equipment

	A	B
Appl. Equipment:	SPRAY	SPRAY
Equipment Type:	CO2 BP	CO2 BP
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
Spray Volume, Unit:	15 gal/ac	15 gal/ac
Mix Size, Unit:	1.5 liters	1.5 liters

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Pest Type	W Weed	W Weed			
Pest Code	BROTE	BROTE			
Pest Scientific Name	Bromus tectorum	Bromus tectorum			
Pest Name	Downy Brome	Downy Brome			
Crop Name			Winter Wheat	Winter Wheat	
Part Rated	Foliag -	Foliag -	SEED -	SEED -	
Rating Date	Jun-6-2011	Jul-12-2011	Sep-7-2011	Sep-7-2011	
Rating Type	CONTROL	CONTROL	Test Weight	YIELD	
Rating Unit	%	%	Lbs/bu	BU/A	
Number of Subsamples	1	1	1	1	
Assessed By	NL	Nevin L.			
Days After First/Last Applic.	248 18	284 54	341 111	341 111	
Trt-Eval Interval					
Plant-Eval Interval	251 DP-1	287 DP-1	344 DP-1	344 DP-1	
ARM Action Codes					
Number of Decimals					
Trt No.	Treatment Name	Rate	Appl Unit	Code	
		2	3	13	14
1	Nontreated	0.0	0.0	59.408	82.4845
2	AXIOM 10 oz/a A	82.5	60.0	59.053	82.3830
3	KIH-485 1.68 oz/a A	67.5	75.0	59.488	93.1885
4	AXIOM 10 oz/a A Olympus 0.918 oz/a B NIS 0.5 % v/v B	95.5	81.3	59.510	74.8503
5	Olympus 0.918 oz/a B NIS 0.5 % v/v B	86.0	68.8	59.205	81.5163
6	Olympus 0.918 oz/a B NIS 0.5 % v/v B Metribuzin 3 oz/a B	79.5	70.0	59.430	81.2590
LSD (P=.05)		25.32	21.06	0.7082	15.12770
Standard Deviation		16.80	13.97	0.4700	10.03932
CV		24.53	23.62	0.79	12.15