

Washington State University

Sierra: Control of Grasses and Broadleaf Weeds

Trial ID: ICB4611 Protocol ID: ICB4611
 Location: Moscow, Idaho Study Director:
 Project ID: DD11-SG-H02 Investigator: Dr. Ian C. Burke
 Sponsor Contact: Don Drader / Chris Clemens /Syngenta

General Trial Information

Investigator: Dr. Ian C. Burke

Trial Location

City: Moscow
State/Prov.: Idaho

Personnel

Investigator: Dr. Ian C. Burke

Cooperator/Landowner

Cooperator: Al Lyons

Crop Description

Winter Wheat
Variety: AP700/Cifid 102
Planting Method: DRILL
Depth, Unit: 1.5 IN
Row Spacing, Unit: 7.5 IN
Seed Bed: COMPAC compacted
Harvest Date: Aug-31-2011 **Harvest Equipment:** Kincaid 8 XP
Harvested Width, Unit: 5 FT **Harvested Length, Unit:** 33 FT

Pest Description

Pest 1 Type: W **Code:** LOLMU Lolium multiflorum
Common Name: Italian Ryegrass

Pest 2 Type: W **Code:** LACSE Lactuca serriola
Common Name: Prickly lettuce

Pest 3 Type: W **Code:** ANTCO Anthemis cotula
Common Name: Mayweed chamomile

Site and Design

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

Soil Description

Description Name: Silt Loam Cook West
% Sand: 24.3 **% OM:** 2.78
% Silt: 57.0 **pH:** 5.0
% Clay: 18.7 **CEC:** 21.2
Analyzed By:
 Northwest Agricultural Consultants

Washington State University

Application Description

	A
Application Date:	May-13-2011
Time of Day:	1200
Application Method:	CO2 BP
Application Timing:	POSPOS
Application Placement:	FOLIAR
Applied By:	RR
Air Temperature, Unit:	65.3 F
% Relative Humidity:	42
Wind Velocity, Unit:	2.3 mph
Wind Direction:	EAST
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	15 C
Soil Moisture:	DAMP
% Cloud Cover:	10
Next Rain Occurred On:	May-15-2011

Crop Stage At Each Application

	A
Stage Scale Used:	DESC
Stage Majority, Percent:	2 tiller 50
Stage Minimum, Percent:	1 tiller 50
Height Minimum, Maximum:	9 10
Crop coverage (%):	70

Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	LOLMU W
Stage Majority, Percent:	Tiller 100
Height, Unit:	5 IN
Density, Unit:	8 Plants
Coverage, Unit:	1 M2
Pest 2 Code, Type, Scale:	LACSE W
Stage Majority, Percent:	3 lf 100
Density, Unit:	19 Plants
Coverage, Unit:	1 M2
Pest 3 Code, Type, Scale:	ANTCO W
Stage Majority, Percent:	0.5 Ro 100
Density, Unit:	1 Plant
Coverage, Unit:	1 M2

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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Trt No.	Treatment Name	Rate	Rate Unit	Appl Code	1	2	5	7
1	CHECK				0.0	0.0	52.108	50.02
2	Sierra NIS AMS	0.01367 lb ai/a 0.5 % v/v 1.5 lb/a	A A A		70.0	27.5	52.565	51.11
3	Sierra NIS AMS	0.0205 lb ai/a 0.5 % v/v 1.5 lb/a	A A A		81.3	35.0	52.083	52.39
4	Sierra NIS AMS	0.02734 lb ai/a 0.5 % v/v 1.5 lb/a	A A A		83.8	50.0	52.648	52.98
5	Sierra NIS AMS Starane Flex	0.02734 lb ai/a 0.5 % v/v 1.5 lb/a 0.0615 lb ai/a	A A A A		85.0	42.5	52.633	53.13
6	Sierra NIS AMS Widematch	0.02734 lb ai/a 0.5 % v/v 1.5 lb/a 0.09843 lb ai/a	A A A A		87.5	45.0	52.535	53.68
LSD (P=.05)					19.03	11.34	0.8584	4.760
Standard Deviation					12.63	7.53	0.5697	3.159
CV					18.59	22.58	1.09	6.05