

Washington State University

Grass Weed Control in Winter Wheat (Clearfield) + Everest 2.0

Trial ID: ICB4411 Protocol ID: ICB4411
 Location: Moscow, Idaho Study Director:
 Project ID: Investigator: Dr. Ian C. Burke
 Sponsor Contact: Chad Effertz

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
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:** AVEFA Avena fatua
Common Name: Wild oat

Pest 2 Type: W **Code:** LOLMU Lolium multiflorum
Common Name: Italian ryegrass

Pest 3 Type: W **Code:** LACSE Lactuca serriola
Common Name: Prickly lettuce

Pest 4 Type: W **Code:** ANTCO Anthemis cotula
Common Name: Mayweed chamomile

Site and Design

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

Application Description

	A	B
Application Date:	May-13-2011	May-20-2011
Time of Day:	1200	1400
Application Method:	CO2 BP	CO2 BP
Application Timing:	POSPOS	POSPOS
Application Placement:	FOLIAR	FOLIAR
Applied By:	RR	RR
Air Temperature, Unit:	65.3 F	71.2 F
% Relative Humidity:	42	39
Wind Velocity, Unit:	2.3 MPH	2.7 MPH
Wind Direction:	EAST	SW
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	15 C	10 C
Soil Moisture:	DAMP	DAMP
% Cloud Cover:	10	0

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Crop Stage At Each Application

	A	B
Stage Scale Used:	DESC	DESC
Stage Majority, Percent:	2 tiller	Tillered
Stage Minimum, Percent:		3 Tiller 50
Stage Maximum, Percent:	1 tiller 50	4 tiller 50
Height, Unit:		13 IN
Height Minimum, Maximum:	9 10	12 14
Crop coverage (%):	70	70

Pest Stage At Each Application

	A	B
Pest 1 Code, Type, Scale:	AVEFA W	AVEFA W
Stage Majority, Percent:	tiller 100	
Height, Unit:	6 In	
Density, Unit:	3 Plants	
Coverage, Unit:	1 M2	
Pest 2 Code, Type, Scale:	LOLMU W	LOLMU W
Stage Majority, Percent:	2 lf 100	Tiller
Stage Minimum, Percent:		2 lf 50
Stage Maximum, Percent:		4 till 50
Height, Unit:	3 IN	5 IN
Height Minimum, Maximum:		3 8
Density, Unit:	39 Plants	34 Plants
Coverage, Unit:	1 M2	1 M2
Pest 3 Code, Type, Scale:	LACSE W	LACSE W
Stage Majority, Percent:	0.5 ro 100	
Stage Minimum, Percent:	3 lf	
Density, Unit:	1 Plant	
Coverage, Unit:	1 M2	
Pest 4 Code, Type, Scale:	ANTCO W	ANTCO W
Stage Majority, Percent:	0.5 ro	
Density, Unit:	2 Plants	
Coverage, Unit:	1 M2	

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:	H2O	H2O
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	LOLMU	LOLMU					
Pest Scientific Name	Lolium multifl>	Lolium multifl>					
Pest Name	Italian ryegra>	Italian ryegra>					
Crop Name	W. WHEAT	W. WHEAT	Winter Wheat	Winter Wheat			
Part Rated	FOLIAG P	FOLIAG P	SEED -	SEED -			
Rating Date	Jun-14-2011	Jul-7-2011	Aug-31-2011	Aug-31-2011			
Rating Type	CONTROL	CONTROL	Test Wt.	YIELD			
Rating Unit	%	%	lbs/bu	BU/A			
Number of Subsamples	1	1	1	1			
Assessed By	AR	ICB					
Days After First/Last Applic.	32 25	55 48	110 103	110 103			
ARM Action Codes				TY1			
Number of Decimals				2			
Trt No.	Treatment Name	Rate Unit	Appl Code				
				1	2	5	7
1	CHECK			0.0	0.0	50.690	41.99
2	Olympus Flex	3.0 oz/a	A	60.0	52.5	51.915	45.34
	UAN	1 qt/a	A				
	NIS	0.5 % v/v	A				
3	Osprey	4.75 oz/a	A	75.0	65.0	51.278	47.62
	UAN	1 qt/a	A				
	NIS	0.5 % v/v	A				
4	PowerFlex	3.5 oz/a	A	82.5	55.0	51.908	48.48
	AMS	1.5 lb/a	A				
	NIS	0.25 % v/v	A				
5	Beyond	4 oz/a	A	65.0	60.0	51.448	45.46
	UAN	2.5 % v/v	A				
	NIS	0.5 % v/v	A				
6	Hoelon	2 pt/a	A	48.8	52.5	52.268	43.42
	COC	1 pt/a	A				
7	GoldSky (GF1848)	16 oz/a	A	75.0	71.3	51.820	46.24
	NIS	0.5 % v/v	A				
	AMS	1.5 lb/a	A				
8	Everest	1 fl oz/a	A	82.5	66.3	51.610	50.77
	Basic Blend	1.0 % v/v	A				
9	Everest	1 fl oz/a	A	81.3	77.5	51.478	49.52
	ARY0547-001	0.1 oz wt/a	A				
	Basic Blend	1.0 % v/v	A				
10	Maverick	0.67 oz/a	A	61.3	47.5	51.645	50.11
	NIS	0.5 % v/v	A				
11	Olympus	0.9 oz/a	A	56.3	45.0	51.033	45.19
	NIS	0.5 % v/v	A				
12	Everest	1 fl oz/a	B	65.0	60.0	51.453	44.22
	Basic Blend	1.0 % v/v	B				
13	Everest	1 fl oz/a	B	63.8	45.0	51.543	51.49
	ARY0547-001	0.1 oz wt/a	B				
	Basic Blend	1.0 % v/v	B				
14	Axial XL	16.4 fl oz/a	B	72.5	50.0	51.235	47.47
15	Goldsky	1 pt/a	B	73.8	65.0	51.515	50.74
	Basic Blend	1.0 % v/v	B				
LSD (P=.05)				19.89	21.60	0.8657	6.358
Standard Deviation				13.92	15.12	0.6058	4.449
CV				21.69	27.91	1.18	9.43