

Washington State University

FALLOW/SHARPEN/TIMING/EFFICACY

Trial ID: ICB4211 Protocol ID: ICB4211
 Location: WILKE Study Director:
 Project ID: Investigator: Dr. Ian C. Burke
 Sponsor Contact: CHUCK RICE

General Trial Information	
Investigator: Dr. Ian C. Burke	
Trial Location	
City: Davenport	
State/Prov.: Washington	

Personnel
Investigator: Dr. Ian C. Burke

Crop Description
Chemical Fallow
Seed Bed: COMPAC compacted

Pest Description
Pest 1 Type: W Common Name: Volunteer Wheat
Pest 2 Type: W Code: BROTE Bromus tectorum Common Name: Downy brome
Pest 3 Type: W Code: LACSE Lactuca serriola Common Name: Prickly lettuce
Common Name: Panicle Willoweed

Site and Design
Plot Width, Unit: 8 FT
Plot Length, Unit: 30 FT
Plot Area, Unit: 240 FT ²
Replications: 4 Study Design: RACOBL Randomized Complete Block (RCB)

Application Description		
	A	B
Application Date:	May-20-2011	Jul-20-2011
Time of Day:	1300	1030
Application Method:	SPRAY	SPRAY
Application Timing:	POS WEED	POS WEED
Application Placement:	FOLIAR	FOLIAR
Applied By:	RR	RR
Air Temperature, Unit:	68.5 F	65.2 F
% Relative Humidity:	19	
Wind Velocity, Unit:	3.0 MPH	4.0 MPH
Wind Direction:	SW	SW
Dew Presence (Y/N):	N no	N no
Soil Temperature, Unit:	9 C	18 C
Soil Moisture:	DRY	DRY
% Cloud Cover:	10	20

Crop Stage At Each Application		
	A	B
Stage Scale Used:	FALLOW	FALLOW

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Pest Stage At Each Application

	A	B
W	W	
Stage Majority, Percent:	tiller 100	Head 100
Stage Minimum, Percent:	2 till 100	
Stage Maximum, Percent:	3 Jts 100	
Height, Unit:	10 IN	
Density, Unit:	95 Plants	
Coverage, Unit:	1 M2	
Pest 2 Code, Type, Scale:	BROTE W	BROTE W
Stage Majority, Percent:	Tiller 100	Headed 100
Stage Minimum, Percent:	3 Jt 100	
Height, Unit:	6 In	
Density, Unit:	4 Plants	4 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:	5 lf.	
Density, Unit:	1 Plant	
Coverage, Unit:	1 M2	
Stage Majority, Percent:	2 node 100	
Height, Unit:	2 Ht	
Density, Unit:	1 Plant	
Coverage, Unit:	1 M2	

Application Equipment

	A	B
Appl. Equipment:	CO2 BP	CO2BP
Equipment Type:	SPRAY	SPRAY
Operation Pressure, Unit:	35 PSI	24 PSI
Nozzle Type:	FLAT FAN	XR
Nozzle Size:	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

Trt No Treatment Application Comment

1 Tumble Mustard noted as Russian Thistle carcasses but no emergence. Weather has been cool and rainy!

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 Investigator: Dr. Ian C. Burke
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Pest Type Pest Code Pest Scientific Name Pest Name Crop Name Part Rated Rating Date Rating Type Rating Unit Number of Subsamples Assessed By Days After First/Last Applic.	W Weed AVEFA Avena fatua	W Weed Conyza canaden>	W Weed SASKR Salsola kali r>	W Weed SSYAL Sisymbrium alt>	W Weed AMAAL Amaranthus alb>	
	Wild oat	Horseweed	Russian thistle	Tumble mustard	Tumbleweed ama>	
	Fallow Foliag - Aug-16-2011 CONROL % 1 ALAN R. 88 27	Fallow Foliag - Aug-16-2011 CONROL % 1 ALAN R. 88 27	Fallow Foliag - Aug-16-2011 CONROL % 1 ALAN R. 88 27	Fallow Foliag - Aug-16-2011 CONROL % 1 ALAN R. 88 27	Fallow Foliag - Sep-7-2011 CONROL % 1 RROOD 110 49	
Trt Treatment No. Name Rate Rate Unit Appl Code	2	3	5	6	7	
1 CHECK	0.0	0.0	0.0	0.0	0.0	
2 RT3 AMS NIS RT3 AMS NIS	24.0 fl oz/a A 0.17 lb/gal A 0.5 % v/v A 36.0 fl oz/a B 0.17 lb/gal B 0.5 % v/v B	99.0	99.0	99.0	99.0	98.3
3 RT3 AMS NIS RT3 AMS NIS	36.0 fl oz/a A 0.17 lb/gal A 0.5 % v/v A 48.0 fl oz/a B 0.17 lb/gal B 0.5 % v/v B	99.0	99.0	99.0	99.0	98.8
4 RT3 AMS NIS RT3 SHARPEN AMS Meth-Oil	24.0 fl oz/a A 0.17 lb/gal A 0.5 % v/v A 36.0 fl oz/a B 1.0 fl oz/a B 0.17 lb/gal B 1.0 % v/v B	99.0	99.0	99.0	99.0	98.8
5 RT3 SHARPEN AMS Meth-Oil RT3 AMS NIS	24.0 fl oz/a A 1.0 fl oz/a A 0.17 lb/gal A 1.0 % v/v A 36.0 fl oz/a B 0.17 lb/gal B 0.5 % v/v B	99.0	99.0	99.0	99.0	99.0
6 RT3 SHARPEN AMS Meth-Oil RT3 SHARPEN AMS Meth-Oil	24.0 fl oz/a A 1.0 fl oz/a A 0.17 lb/gal A 1.0 % v/v A 36.0 fl oz/a B 1.0 fl oz/a B 0.17 lb/gal B 1.0 % v/v B	99.0	99.0	99.0	99.0	98.8
7 RT3 AMS NIS RT3 2,4-D ester LV AMS NIS	24.0 fl oz/a A 0.17 lb/gal A 0.5 % v/v A 36.0 fl oz/a B 16 fl oz/a B 0.17 lb/gal B 0.5 % v/v B	81.3	98.0	99.0	99.0	93.0

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Trt Treatment No. Name	Rate Rate Unit	Appl Code	2	3	5	6	7
8 RT3 2,4-D ester LV AMS NIS RT3 2,4-D ester LV AMS NIS	24.0 fl oz/a A 16 fl oz/a A 0.17 lb/gal A 0.5 % v/v A 36.0 fl oz/a B 16 fl oz/a B 0.17 lb/gal B 0.5 % v/v B		99.0	99.0	99.0	99.0	98.5
9 RT3 SHARPEN AMS Meth-Oil RT3 2,4-D ester LV AMS NIS	24.0 fl oz/a A 1.0 fl oz/a A 0.17 lb/gal A 1.0 % v/v A 36.0 fl oz/a B 16 fl oz/a B 0.17 lb/gal B 0.5 % v/v B		99.0	99.0	99.0	99.0	98.5
10 RT3 SHARPEN AMS Meth-Oil RT3 DISTINCT AMS Meth-Oil	24.0 fl oz/a A 1.0 fl oz/a A 0.17 lb/gal A 1.0 % v/v A 36.0 fl oz/a B 4 oz/a B 0.17 lb/gal B 1.0 % v/v B		99.0	99.0	99.0	99.0	97.8
11 RT3 CLARITY AMS NIS RT3 SHARPEN AMS Meth-Oil	24.0 fl oz/a A 8 fl oz/a A 0.17 lb/gal A 0.5 % v/v A 36.0 fl oz/a B 1.0 fl oz/a B 0.17 lb/gal B 1.0 % v/v B		99.0	99.0	99.0	99.0	76.3
12 RT3 VALOR AMS NIS RT3 2,4-D ester LV AMS NIS	24.0 fl oz/a A 3 oz/a A 0.17 lb/gal A 0.5 % v/v A 36.0 fl oz/a B 16 fl oz/a B 0.17 lb/gal B 0.5 % v/v B		99.0	99.0	99.0	99.0	98.3
LSD (P=.05) Standard Deviation CV	3.56 2.47 2.76	0.83 0.58 0.64	0.00 0.00 0.0	0.00 0.00 0.0	0.00 0.00 0.0	18.81 13.03 14.81	