

# Washington State University

## GOLDSKY control of BROADLEAF WEEDS in SPRING WHEAT.

Trial ID: ICB2711      Protocol ID: ICB2711  
 Location:              Study Director: Dr. Ian C. Burke  
 Project ID: JPY11018      Investigator: Dr. Ian C. Burke  
 Sponsor Contact: Dr. Joseph Yenish / Dow AgroSciences

### General Trial Information

**Study Director:** Dr. Ian C. Burke  
**Investigator:** Dr. Ian C. Burke

**Initiation Date:** Jun-20-2011

### Trial Location

**City:** Pullman  
**State/Prov.:** Washington

### Personnel

**Study Director:** Dr. Ian C. Burke  
**Investigator:** Dr. Ian C. Burke

### Crop Description

Spring Wheat  
**Variety:** Louise  
**Planting Method:** HORSCH  
**Depth, Unit:** 1 IN  
**Row Spacing, Unit:** 12 IN  
**Seed Bed:** ROUTRA rough/trashy  
**Soil Moisture:** WET wet  
**Harvest Date:** Sep-16-2011  
**Harvested Width, Unit:** 5 FT  
**Planting Date:** Mar-27-2011  
**Rate, Unit:** 80 LB/A  
**Spacing Within Row, Unit:** 6 IN  
**Harvest Equipment:** Kincaid 8 XP  
**Harvested Length, Unit:** 30 FT

### Pest Description

**Pest 1 Type:** W    **Code:** ANTCO Anthemis cotula  
**Common Name:** Mayweed chamomile  
**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:** CHEAL Chenopodium album  
**Common Name:** Common Lambs Quarters

### Site and Design

**Plot Width, Unit:** 8 FT  
**Plot Length, Unit:** 30 FT  
**Plot Area, Unit:** 240 FT<sup>2</sup>  
**Replications:** 4      **Study Design:** RACOB L Randomized Complete Block (RCB)

### Soil Description

**Description Name:** Silt Loam Cook west  
**% Sand:** 26.3      **% OM:** 2.82  
**% Silt:** 61.2      **pH:** 5.2  
**% Clay:** 12.5      **CEC:** 23.8  
**Analyzed By:**  
 Northwest Agricultural Consultants

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## Application Description

	A
Application Date:	Jun-20-2011
Time of Day:	1400
Application Method:	CO2BP
Application Timing:	POSPOS
Application Placement:	FOLIAR
Applied By:	RR
Air Temperature, Unit:	71.1 F
% Relative Humidity:	44
Wind Velocity, Unit:	1.6 MPH
Wind Direction:	S
Dew Presence (Y/N):	N no
Soil Temperature, Unit:	15 C
Soil Moisture:	DRY
% Cloud Cover:	80

## Crop Stage At Each Application

	A
Stage Scale Used:	BBCH
Stage Majority, Percent:	23 32
Stage Minimum, Percent:	31 20
Stage Maximum, Percent:	32 80
Height Minimum, Maximum:	10 12
Plant Foliage Height, Unit:	12 IN
Crop coverage (%):	20

## Pest Stage At Each Application

	A
Pest 1 Code, Type, Scale:	ANTCO W
Stage Majority, Percent:	Rose
Diameter, Unit:	6 IN
Height, Unit:	4 IN
Density, Unit:	7 Plants
Coverage, Unit:	1 M2
Pest 2 Code, Type, Scale:	LOLMU W
Stage Majority, Percent:	5 If T
Stage Minimum, Percent:	3 If 50
Stage Maximum, Percent:	8 If 50
Height, Unit:	4 IN
Height Minimum, Maximum:	3 5
Density, Unit:	5 Plants
Coverage, Unit:	1 M2
Pest 3 Code, Type, Scale:	LACSE W
Stage Majority, Percent:	5 If R
Diameter, Unit:	3 IN
Height, Unit:	2 IN
Density, Unit:	13 Plants
Coverage, Unit:	1 M2
Pest 4 Code, Type, Scale:	CHEAL W
Stage Majority, Percent:	Seedli 100
Height, Unit:	6 IN
Density, Unit:	3 Plants
Coverage, Unit:	1 M2

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## Application Equipment

	A
<b>Appl. Equipment:</b>	CO2 BP
<b>Equipment Type:</b>	SPRAY
<b>Operation Pressure, Unit:</b>	24 PSI
<b>Nozzle Type:</b>	XR
<b>Nozzle Size:</b>	11002 VS
<b>Nozzle Spacing, Unit:</b>	18 IN
<b>Nozzles/Row:</b>	4
<b>Boom Length, Unit:</b>	6 FT
<b>Boom Height, Unit:</b>	20 IN
<b>Ground Speed, Unit:</b>	3 MPH
<b>Carrier:</b>	H2O
<b>Spray Volume, Unit:</b>	15 gal/ac
<b>Mix Size, Unit:</b>	1.5 liters
<b>Propellant:</b>	CO2

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Pest Type	W Weed	W Weed	W Weed				
Pest Code	ANTCO	LACSE	CHEAL				
Pest Scientific Name	Anthemis cotula	Lactuca serrio>	Chenopodium al>				
Pest Name	Mayweed chamom>	Prickly lettuce	Common lambsqu>				
Crop Name				Spring Wheat	Spring Wheat		
Crop Variety				Louise	Louise		
Part Rated	Foliag -	Foliag -	Foliag -	Seed -	SEED -		
Rating Date	Jul-5-2011	Jul-5-2011	Jul-5-2011	Sep-16-2011	Sep-16-2011		
Rating Type	CONTROL	CONTROL	CONTROL	Test Weight	Yield		
Rating Unit	%	%	%	lbs/Bu	Bu/a		
Number of Subsamples	1	1	1	1	1		
Assessed By	Nevin L.	Nevin L.	Alan R.				
Days After First/Last Applic.	15 15	15 15	15 15	88 88	88 88		
Trt-Eval Interval	15 DA-A	15 DA-A	15 DA-A	88 DA-A	88 DA-A		
Plant-Eval Interval	100 DP-1	100 DP-1	100 DP-1	173 DP-1	173 DP-1		
ARM Action Codes							
Number of Decimals							
Trt Treatment	Rate	Appl					
No. Name	Rate Unit	Code	2	3	5		
1 CHECK			0.0	0.0	0.0	58.583	58.750
2 GOLDSKY	16 fl oz/a A		82.5	95.0	99.0	58.770	69.895
NIS	0.5 % v/v A						
AMS	1.52 lb/a A						
3 GOLDSKY	16 fl oz/a A		82.5	85.0	95.8	58.318	63.133
NIS	0.5 % v/v A						
UAN 28% N	64 fl oz/a A						
4 GOLDSKY	16 fl oz/a A		91.3	87.5	98.0	58.568	71.375
MCPA ESTER	8.63 fl oz/a A						
AMS	1.52 lb/a A						
5 AXIAL XL	16.4 fl oz/a A		95.0	95.0	39.8	59.343	69.828
STARANE FLEX	13.5 fl oz/a A						
6 DISCOVER NG	16 fl oz/a A		95.0	100.0	97.0	59.003	68.133
BRONATE ADVANCED	0.8 pt/a A						
7 DISCOVER NG	16 fl oz/a A		86.3	92.5	71.0	59.333	71.225
STARANE FLEX	13.5 fl oz/a A						
LSD (P=.05)			12.93	16.97	28.01	0.7093	7.9056
Standard Deviation			8.70	11.43	18.86	0.4774	5.3214
CV			11.44	14.41	26.37	0.81	7.89