

# Washington State University

## EVALUATE PALISADE FOR USE IN CEREALS

Trial ID: ICB3411      Protocol ID: ICB3411  
 Location: Cook Farm      Study Director:  
 Project ID:      Investigator: Dr. Ian C. Burke  
 Sponsor Contact: Pete Forster / Syngenta

### General Trial Information

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

#### Trial Location

**City:** Pullman      **Latitude of LL Corner °:** 46.46879 N  
**State/Prov.:** Washington      **Longitude of LL Corner °:** 117.05555 W  
**Altitude of LL Corner, Unit:** 2605.00 FT

### Personnel

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

### Crop Description

Winter Wheat  
**Variety:** Brundage 96  
**Planting Date:** Oct-18-2010  
**Planting Method:** HORSCH      **Rate, Unit:** 100 LB/A  
**Depth, Unit:** 1.5 IN  
**Row Spacing, Unit:** 12 IN  
**Seed Bed:** NTILL  
**Harvest Date:** Aug-23-2011      **Harvest Equipment:** Kincaid 8 XP  
**Harvested Width, Unit:** 5 FT      **Harvested Length, Unit:** 30 FT

### 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. Randomized Complete Block (RCB)

### Soil Description

**Description Name:** Silt Loam Cook west  
**% Sand:** 23.0      **% OM:** 2.54  
**% Silt:** 55.7      **pH:** 5.7  
**% Clay:** 21.3      **CEC:** 24.6  
**Analyzed By:**  
 Northwest Agricultural Consultants

### Application Description

	A	B	C
<b>Application Date:</b>	May-4-2011	May-13-2011	Jun-6-2011
<b>Time of Day:</b>			0830
<b>Application Method:</b>	SPRAY	SPRAY	SPRAY
<b>Application Timing:</b>	POSPOS	POSPOS	POSPOS
<b>Application Placement:</b>	FOLIAR	FOLIAR	FOLIAR
<b>Applied By:</b>	DP	RR	RR
<b>Air Temperature, Unit:</b>	59.8 F	67.7 F	61.2 F
<b>Wind Velocity, Unit:</b>	1.8 MPH	2.4 MPH	4.0 MPH
<b>Wind Direction:</b>	SW	East	West
<b>Dew Presence (Y/N):</b>	N no	N no	N no
<b>Soil Temperature, Unit:</b>		10 C	10 C
<b>Soil Moisture:</b>		DRY	Damp
<b>% Cloud Cover:</b>	0	60	90

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## Crop Stage At Each Application

	A	B	C
<b>Stage Scale Used:</b>	DESC	DESC	BBCH
<b>Stage Majority, Percent:</b>	Tiller 100	tiller 100	33 80
<b>Stage Minimum, Percent:</b>		1 Jt 50	32 20
<b>Stage Maximum, Percent:</b>			24
<b>Height, Unit:</b>		7 IN	
<b>Height Minimum, Maximum:</b>	4 6	6 8	12 14
<b>Plant Foliage Height, Unit:</b>			12 IN
<b>Crop coverage (%):</b>		30	50

## Application Equipment

	A	B	C
<b>Appl. Equipment:</b>	CO2 BP	CO2 BP	CO2 BP
<b>Equipment Type:</b>	SPRAY	SPRAY	SPRAY
<b>Operation Pressure, Unit:</b>	35 PSI	35 PSI	24 PSI
<b>Nozzle Type:</b>	FLAT FAN	FLAT FAN	XR
<b>Nozzle Size:</b>	8015	8015	VS 11002
<b>Nozzle Spacing, Unit:</b>	18 IN	18 IN	18 IN
<b>Nozzles/Row:</b>	4	4	4
<b>Boom Length, Unit:</b>	6 FT	6 FT	6 FT
<b>Boom Height, Unit:</b>	24 IN	24 IN	16 IN
<b>Ground Speed, Unit:</b>	3 MPH	3 MPH	3 MPH
<b>Carrier:</b>	H2O	H2O	H2O
<b>Spray Volume, Unit:</b>	15 gal/ac	15 gal/ac	15 gal/ac
<b>Mix Size, Unit:</b>	1.5 liters	1.5 liters	1.5 liters
<b>Propellant:</b>	CO2	CO2	CO2

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Crop Name	Winter Wheat	Winter Wheat
Part Rated	SEED -	SEED -
Rating Date	Aug-23-2011	Aug-23-2011
Rating Type	Test Wt.	YIELD
Rating Unit	Lbs/bu	BU/A
Number of Subsamples	1	1
Days After First/Last Applic.	111 78	111 78
Plant-Eval Interval	309 DP-1	309 DP-1
ARM Action Codes		TY1
Number of Decimals		2
Trt Treatment	Rate	Appl
No. Name	Rate Unit	Code
	2	4
1 UNTREATED	57.833	80.05
2 PALISADE 5.04 fl oz/a A	57.383	79.50
3 PALISADE 5.04 fl oz/a B	57.533	79.56
4 PALISADE 7.0 fl oz/a B	57.753	82.66
5 CERONE 8 fl oz/a C	57.860	78.43
6 PALISADE 2.74 fl oz/a B	57.793	86.99
PALISADE 2.74 fl oz/a C		
LSD (P=.05)	0.6417	6.569
Standard Deviation	0.4165	4.263
CV	0.72	5.25