

**Roughstalk bluegrass control in winter wheat**

Trial ID: WT01-19 Study Dir.: Sprague, Powell, Stiles  
 Conducted: Campus, Dairy Investigator: Christy Sprague

**Planting Date:** Oct-24-2018 **Row Spacing:** 7.5 IN  
**Variety:** 'Starburst' soft red wheat **No. of Reps:** 4  
**Population:** 2000000 seeds/A **% OM:** 3.3  
**Soil Type:** L loam **pH:** 7.3  
**Plot Size:** 10 X 30 FT **Study Design:** Randomized Complete Block (RCB)

**Tillage/Previous Crops:** Previous Crop: Wheat Soil finished 2X prior to planting  
**Fertilizer:**

<b>Crop and Weed Description</b>			
Weed	Code	Common Name	Scientific Name
1	POATR	Rough-stalk bluegrass	Poa trivialis
2	POLAH	erect knotweed	Polygonum achoreum
3	STEME	chickweed, common	Stellaria media
4	POLPY	smartweed, Pennsylvania	Polygonum pennsylvanicum
5	CHEAL	lambsquarters, common	Chenopodium album
Crop	Code	Common Name	
1	TRZAW	Winter Wheat	

<b>Application Description</b>			
	A	B	C
<b>Application Timing:</b>	PRE	EPOS	POST
<b>Date Treated:</b>	Nov-8-2018	May-15-2019	Jun-3-2019
<b>Time Treated:</b>	2:30 PM	10:30 AM	1:50 PM
<b>% Cloud Cover:</b>	100	15	5
<b>Air Temp., Unit:</b>	40 F	62 F	58 F
<b>% Relative Humidity:</b>	59	50	46
<b>Wind Speed/Unit/Dir:</b>	0 mph	7 mph W	4 mph W
<b>Soil Temp, Unit:</b>	42 F	62 F	68 F
<b>Leaf Moist/Dew Presence (Y/N):</b>			5
<b>Soil Moist:</b>	1	3	4

<b>Crop Stage at Each Application</b>			
	A	B	C
<b>Crop 1 Name:</b>	TRZAW	TRZAW	TRZAW
<b>Height:</b>		10 "	18-25 " (21.5)
<b>Stage:</b>		5	9.5

<b>Weed Stage at Each Application</b>			
	A	B	C
<b>Weed 1 Name:</b>	POATR	POATR	POATR
<b>Height:</b>		0.5-3 " (1.75)	10-32 " (21)
<b>Stage:</b>			flower
<b>Weed 2 Name:</b>	POLAH	POLAH	POLAH
<b>Height:</b>			10-12 " (11)
<b>Stage:</b>			12L
<b>Weed 3 Name:</b>	STEME	STEME	STEME
<b>Height:</b>			5-7 " (6)
<b>Stage:</b>			flower
<b>Weed 4 Name:</b>	POLPY	POLPY	POLPY
<b>Height:</b>			3-4 " (3.5)
<b>Stage:</b>			5L
<b>Weed 5 Name:</b>	CHEAL	CHEAL	CHEAL
<b>Height:</b>			5 "
<b>Stage:</b>			6L

<b>Application Equipment</b>										
Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Nozzle Height	Nozzle Spacing	Boom Width	Spray Volume	Carrier	Operation Pressure
A	CUB	3.8 mph	AIXR	11003	22 "	20 "	100 "	19 GPA	WATER	30 psi
B	CUB	3.8 mph	AIXR	11003	26 "	20 "	100 "	19 GPA	WATER	30 psi
C	CUB	3.8 mph	AIXR	11003	36 "	20 "	100 "	19 GPA	WATER	30 psi

**Comments:**

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Pest Code	TRZAW	POATR	TRZAW	POATR	POLAH
Crop Type, Code	May-29-2019	May-29-2019	Jun-17-2019	Jun-17-2019	Jun-17-2019
Rating Date	injury	control	injury	control	control
Rating Type	percent	percent	percent	percent	percent
Rating Unit	14 DA-B	14 DA-B	14 DA-C	14 DA-C	14 DA-C
Trt-Eval Interval	0	0	0	0	0
Number of Decimals					

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Timing	Appl Code					
1	Osprey	4.5	WG	4.75 oz/a	EPOS	B	0	97	0	98	0
1	Surfactant	L		0.5 % v/v	EPOS	B					
1	AMS	WG		3 lb/a	EPOS	B					
2	PowerFlex HL	13	WG	2 oz/a	EPOS	B	0	93	0	94	100
2	Surfactant	L		0.5 % v/v	EPOS	B					
2	AMS	WG		3 lb/a	EPOS	B					
3	Axial XL	0.42	L	16.4 fl oz/a	EPOS	B	0	96	0	97	0
4	Axial Bold	0.685	L	15 fl oz/a	EPOS	B	0	91	0	99	0
5	Huskie	2.06	L	13.5 fl oz/a	EPOS	B	0	93	0	98	100
5	Osprey	4.5	WG	4.75 oz/a	EPOS	B					
5	Surfactant	L		0.5 % v/v	EPOS	B					
5	AMS	WG		3 lb/a	EPOS	B					
6	Huskie	2.06	L	13.5 fl oz/a	EPOS	B	0	93	0	93	100
6	PowerFlex HL	13	WG	2 oz/a	EPOS	B					
6	Surfactant	L		0.5 % v/v	EPOS	B					
6	AMS	WG		3 lb/a	EPOS	B					
7	Huskie	2.06	L	13.5 fl oz/a	EPOS	B	0	74	0	100	100
7	Axial XL	0.42	L	16.4 fl oz/a	EPOS	B					
8	Huskie	2.06	L	13.5 fl oz/a	EPOS	B	0	79	0	92	100
8	Axial Bold	0.685	L	15 fl oz/a	EPOS	B					
9	Buctril	2	L	1.5 pt/a	POST	C			5	40	20
9	Osprey	4.5	WG	4.75 oz/a	POST	C					
9	Surfactant	L		0.5 % v/v	POST	C					
9	AMS	WG		3 lb/a	POST	C					
10	Buctril	2	L	1.5 pt/a	POST	C			9	30	23
10	PowerFlex HL	13	WG	2 oz/a	POST	C					
10	Surfactant	L		0.5 % v/v	POST	C					
10	AMS	WG		3 lb/a	POST	C					
11	Buctril	2	L	1.5 pt/a	POST	C			5	43	20
11	Axial XL	0.42	L	16.4 fl oz/a	POST	C					
12	Untreated						0	0	0	0	0
13	Buctril	2	L	2 pt/a	POST	C			0	0	15
14	Talinor	2.67	L	16 fl oz/a	POST	C			0	0	20
14	CoAct +	L		3.2 fl oz/a	POST	C					
14	Crop oil concentrate	L		1 % v/v	POST	C					

Could not calculate LSD (% mean diff) for columns 1,9 because error mean square = 0.

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Pest Code		POATR		POATR	POLAH
Crop Type, Code	TRZAW		TRZAW		
Rating Date	May-29-2019	May-29-2019	Jun-17-2019	Jun-17-2019	Jun-17-2019
Rating Type	injury	control	injury	control	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-B	14 DA-B	14 DA-C	14 DA-C	14 DA-C
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code					
15	Huskie	2.06	L	15	fl oz/a	POST	C	0	0	20		
15	Surfactant		L	0.5	% v/v	POST	C					
15	AMS		WG	3	lb/a	POST	C					
LSD P=.05								9.5	3.0	9.2	2.9	
Standard Deviation								0.0	6.5	2.1	6.4	2.0
CV								0.0	8.22	167.52	10.91	4.89

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Pest Code	POLPE	PLAMA	CHEAL	TRZAW	POATR
Crop Type, Code					
Rating Date	Jun-17-2019	Jun-17-2019	Jun-17-2019	Jul-22-2019	Jul-22-2019
Rating Type	control	control	control	injury	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-C	14 DA-C	14 DA-C	49 DA-C	49 DA-C
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Timing	Appl Code					
1	Osprey	4.5	WG	4.75 oz/a	EPOS	B	0	0	0	0	95
1	Surfactant	L		0.5 % v/v	EPOS	B					
1	AMS	WG		3 lb/a	EPOS	B					
2	PowerFlex HL	13	WG	2 oz/a	EPOS	B	100	100	100	0	85
2	Surfactant	L		0.5 % v/v	EPOS	B					
2	AMS	WG		3 lb/a	EPOS	B					
3	Axial XL	0.42	L	16.4 fl oz/a	EPOS	B	0	0	0	0	90
4	Axial Bold	0.685	L	15 fl oz/a	EPOS	B	0	0	0	0	91
5	Huskie	2.06	L	13.5 fl oz/a	EPOS	B	96	91	100	0	97
5	Osprey	4.5	WG	4.75 oz/a	EPOS	B					
5	Surfactant	L		0.5 % v/v	EPOS	B					
5	AMS	WG		3 lb/a	EPOS	B					
6	Huskie	2.06	L	13.5 fl oz/a	EPOS	B	100	100	100	0	93
6	PowerFlex HL	13	WG	2 oz/a	EPOS	B					
6	Surfactant	L		0.5 % v/v	EPOS	B					
6	AMS	WG		3 lb/a	EPOS	B					
7	Huskie	2.06	L	13.5 fl oz/a	EPOS	B	98	100	100	0	84
7	Axial XL	0.42	L	16.4 fl oz/a	EPOS	B					
8	Huskie	2.06	L	13.5 fl oz/a	EPOS	B	95	91	100	0	88
8	Axial Bold	0.685	L	15 fl oz/a	EPOS	B					
9	Buctril	2	L	1.5 pt/a	POST	C	20	10	100	0	73
9	Osprey	4.5	WG	4.75 oz/a	POST	C					
9	Surfactant	L		0.5 % v/v	POST	C					
9	AMS	WG		3 lb/a	POST	C					
10	Buctril	2	L	1.5 pt/a	POST	C	23	18	100	0	48
10	PowerFlex HL	13	WG	2 oz/a	POST	C					
10	Surfactant	L		0.5 % v/v	POST	C					
10	AMS	WG		3 lb/a	POST	C					
11	Buctril	2	L	1.5 pt/a	POST	C	20	10	100	0	68
11	Axial XL	0.42	L	16.4 fl oz/a	POST	C					
12	Untreated						0	0	0	0	0
13	Buctril	2	L	2 pt/a	POST	C	15	15	100	0	0
14	Talinor	2.67	L	16 fl oz/a	POST	C	20	20	98	0	0
14	CoAct +	L		3.2 fl oz/a	POST	C					
14	Crop oil concentrate	L		1 % v/v	POST	C					

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Pest Code	POLPE	PLAMA	CHEAL	TRZAW	POATR
Crop Type, Code					
Rating Date	Jun-17-2019	Jun-17-2019	Jun-17-2019	Jul-22-2019	Jul-22-2019
Rating Type	control	control	control	injury	control
Rating Unit	percent	percent	percent	percent	percent
Trt-Eval Interval	14 DA-C	14 DA-C	14 DA-C	49 DA-C	49 DA-C
Number of Decimals	0	0	0	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code					
15	Huskie	2.06	L	15	fl oz/a	POST	C	20	20	99	0	0
15	Surfactant		L	0.5	% v/v	POST	C					
15	AMS		WG	3	lb/a	POST	C					
	LSD P=.05			5.4					9.4	2.1	.	6.7
	Standard Deviation			3.8					6.6	1.5	0.0	4.7
	CV			9.33					17.2	1.99	0.0	7.69

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Pest Code	BROADLFS
Crop Type, Code	
Rating Date	Jul-22-2019
Rating Type	control
Rating Unit	percent
Trt-Eval Interval	49 DA-C
Number of Decimals	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Appl Timing	Appl Code	
1	Osprey	4.5	WG	4.75 oz/a	EPOS	B	0
1	Surfactant	L		0.5 % v/v	EPOS	B	
1	AMS	WG		3 lb/a	EPOS	B	
2	PowerFlex HL	13	WG	2 oz/a	EPOS	B	69
2	Surfactant	L		0.5 % v/v	EPOS	B	
2	AMS	WG		3 lb/a	EPOS	B	
3	Axial XL	0.42	L	16.4 fl oz/a	EPOS	B	0
4	Axial Bold	0.685	L	15 fl oz/a	EPOS	B	0
5	Huskie	2.06	L	13.5 fl oz/a	EPOS	B	84
5	Osprey	4.5	WG	4.75 oz/a	EPOS	B	
5	Surfactant	L		0.5 % v/v	EPOS	B	
5	AMS	WG		3 lb/a	EPOS	B	
6	Huskie	2.06	L	13.5 fl oz/a	EPOS	B	86
6	PowerFlex HL	13	WG	2 oz/a	EPOS	B	
6	Surfactant	L		0.5 % v/v	EPOS	B	
6	AMS	WG		3 lb/a	EPOS	B	
7	Huskie	2.06	L	13.5 fl oz/a	EPOS	B	84
7	Axial XL	0.42	L	16.4 fl oz/a	EPOS	B	
8	Huskie	2.06	L	13.5 fl oz/a	EPOS	B	61
8	Axial Bold	0.685	L	15 fl oz/a	EPOS	B	
9	Buctril	2	L	1.5 pt/a	POST	C	25
9	Osprey	4.5	WG	4.75 oz/a	POST	C	
9	Surfactant	L		0.5 % v/v	POST	C	
9	AMS	WG		3 lb/a	POST	C	
10	Buctril	2	L	1.5 pt/a	POST	C	45
10	PowerFlex HL	13	WG	2 oz/a	POST	C	
10	Surfactant	L		0.5 % v/v	POST	C	
10	AMS	WG		3 lb/a	POST	C	
11	Buctril	2	L	1.5 pt/a	POST	C	8
11	Axial XL	0.42	L	16.4 fl oz/a	POST	C	
12	Untreated						0
13	Buctril	2	L	2 pt/a	POST	C	35
14	Talinor	2.67	L	16 fl oz/a	POST	C	48
14	CoAct +	L		3.2 fl oz/a	POST	C	
14	Crop oil concentrate	L		1 % v/v	POST	C	

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Pest Code	BROADLFS
Crop Type, Code	
Rating Date	Jul-22-2019
Rating Type	control
Rating Unit	percent
Trt-Eval Interval	49 DA-C
Number of Decimals	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Appl Timing	Appl Code	
15	Huskie	2.06	L	15	fl oz/a	POST	C	25
15	Surfactant		L	0.5	% v/v	POST	C	
15	AMS		WG	3	lb/a	POST	C	

LSD P=.05	17.1
Standard Deviation	12.0
CV	31.57