

Weed control & clover tolerance from fall herbicide applications in wheat

Trial ID: WT01-16
 Conducted: H 6-8 old soils campus

Study Dir.: Sprague, Powell
 Investigator: Christy Sprague

Planting Date: Oct-1-2015
Variety: 'Sunburst' soft red wheat
Population: 1800000 seeds/A
Soil Type: L loam
Plot Size: 10 X 35 FT

Row Spacing: 7.5 IN
No. of Reps: 4
% OM: 2.7
pH: 7.0
Study Design: Randomized Complete Block (RCB)

Tillage/Previous Crops: Fall soil finished; previous crop fallow
Fertilizer: Topdressed with 90 lb N (195 lb/A urea) on April 20, 2016.

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1	LAMAM	henbit	Lamium amplexicaule
2	POAAN	bluegrass, annual	Poa annua
3	THLAR	Fanweed	Thlaspi arvense
4	STEME	chickweed, common	Stellaria media
Crop	Code	Common Name	
1	TRZAW	Winter wheat	

Application Description

Application Timing: A
 POST
Date Treated: Nov-3-2015
Time Treated: 1:00 PM
% Cloud Cover: 0
Air Temp., Unit: 73 F
% Relative Humidity: 34
Wind Speed/Unit/Dir: 3 MPH SW
Soil Temp, Unit: 57 F
Leaf Moist/Dew Presence (Y/N): 3
Soil Moist: 3

Crop Stage at Each Application

A
Crop 1 Name: TRZAW
Height: 5 "
Stage: 4F

Weed Stage at Each Application

A
Weed 1 Name: LAMAM
Height: .25 "
Stage: 2L
Weed 2 Name: POAAN
Height: .25 "
Stage: 1L
Weed 3 Name: THLAR
Height: 1 "
Stage: 4-6L
Weed 4 Name: STEME
Height: .25 "
Stage: 4-6L

Appl	Sprayer Type	Ground Speed	Nozzle Type	Nozzle Size	Application Equipment			Spray Volume	Carrier	Operation Pressure
					Nozzle Height	Nozzle Spacing	Boom Width			
A	CUB	3.8 MPH	AIXR	11003	24 "	20 "	100 "	19 GAL/AC	WATER	30 PSI

Comments: On March 21, 2016 the entire plot was frost seeded with medium red clover at 12 lb/A.

Weed control & clover tolerance from fall herbicide applications in wheat

Trial ID: WT01-16

Location: H 6-8 old soils campus

Investigator: Christy Sprague

Study Director: Sprague, Powell

Pest Code		POAAN	STEME	LAMAM	THLAR		POAAN
Crop Code	TRZAW					TRZAW	
Rating Date	Apr-20-2016	Apr-20-2016	Apr-20-2016	Apr-20-2016	Apr-20-2016	May-20-2016	May-20-2016
Rating Type	injury	control	control	control	control	injury	control
Rating Unit	percent	percent	percent	percent	percent	percent	percent
Trt-Eval Interval	169 DA-A	169 DA-A	169 DA-A	169 DA-A	169 DA-A	199 DA-A	169 DA-A
Number of Decimals	0	0	0	0	0	0	0

Trt No.	Treatment Name	Rate	Appl Code							
		Rate Unit								
1	Affinity Broadspec	0.75 oz/a	A	0	0	100	100	100	0	0
1	Surfactant	0.25 % v/v	A							
1	AMS	2 lb/a	A							
2	Huskie	15 fl oz/a	A	0	0	100	100	100	0	0
2	Surfactant	0.25 % v/v	A							
2	AMS	1 lb/a	A							
3	Osprey	4.75 oz/a	A	0	99	78	98	100	0	94
3	Surfactant	0.25 % v/v	A							
3	AMS	2 lb/a	A							
4	PowerFlex HL	2 oz/a	A	0	94	100	100	100	0	83
4	Surfactant	0.25 % v/v	A							
4	AMS	2 lb/a	A							
5	Untreated Check			0	0	0	0	0	0	0
6	Widematch	1.33 pt/a	A	0	0	0	0	0	0	0
7	Quelex (GF-2686)	0.75 oz/a	A	0	0	100	100	100	0	10
7	Surfactant	0.25 % v/v	A							
8	Huskie	13.5 fl oz/a	A	0	96	100	100	100	0	94
8	Osprey	4.75 oz/a	A							
8	Surfactant	0.25 % v/v	A							
8	AMS	1 lb/a	A							
LSD	P=.05			.	3.0	3.4	2.6	.	.	6.8
Standard Deviation				0.0	2.1	2.3	1.8	0.0	0.0	4.6
CV				0.0	5.72	3.16	2.37	0.0	0.0	13.11

Missing data estimates are included in columns: Average=13

Excluded replicate 3 in column 13

Could not calculate LSD (% mean diff) for columns 1,5,6 because error mean square = 0.

Weed control & clover tolerance from fall herbicide applications in wheat

Trial ID: WT01-16

Location: H 6-8 old soils campus

Investigator: Christy Sprague

Study Director: Sprague, Powell

Pest Code	STEME	LAMAM	THLAR	TRFRE	TRZAW	TRZAW	TRFRE
Crop Code							
Rating Date	May-20-2016	May-20-2016	May-20-2016	May-20-2016	Jul-12-2016	Jul-12-2016	Jul-25-2016
Rating Type	control	control	control	injury	moisture	yield	injury
Rating Unit	percent	percent	percent	percent	percent	bu/acre	percent
Trt-Eval Interval	169 DA-A	169 DA-A	169 DA-A	199 DA-A	252 DA-A	@ 13% M	265 DA-A
Number of Decimals	0	0	0	0	1	1	0

Trt No.	Treatment Name	Rate	Appl Code							
		Rate Unit								
1	Affinity Broadspec	0.75 oz/a	A	96	89	100	0	14.9	89.0	0
1	Surfactant	0.25 % v/v	A							
1	AMS	2 lb/a	A							
2	Huskie	15 fl oz/a	A	99	100	100	0	15.2	94.2	0
2	Surfactant	0.25 % v/v	A							
2	AMS	1 lb/a	A							
3	Osprey	4.75 oz/a	A	98	90	100	15	15.2	90.0	3
3	Surfactant	0.25 % v/v	A							
3	AMS	2 lb/a	A							
4	PowerFlex HL	2 oz/a	A	100	100	100	24	15.3	92.7	3
4	Surfactant	0.25 % v/v	A							
4	AMS	2 lb/a	A							
5	Untreated Check			0	0	0	0	15.4	91.1	0
6	Widematch	1.33 pt/a	A	73	66	75	60	15.5	91.9	34
7	Quelex (GF-2686)	0.75 oz/a	A	98	98	100	99	15.4	96.1	88
7	Surfactant	0.25 % v/v	A							
8	Huskie	13.5 fl oz/a	A	100	100	100	13	15.4	91.9	5
8	Osprey	4.75 oz/a	A							
8	Surfactant	0.25 % v/v	A							
8	AMS	1 lb/a	A							
LSD P=.05				12.0	18.4	10.8	7.6	0.42	8.67	6.5
Standard Deviation				8.2	12.5	7.4	5.1	0.28	5.81	4.5
CV				9.89	15.55	8.72	19.61	1.86	6.31	27.14

Weed control & clover tolerance from fall herbicide applications in wheat

Trial ID: WT01-16

Location: H 6-8 old soils campus

Investigator: Christy Sprague

Study Director: Sprague, Powell

Pest Code					
Crop Code					
Rating Date	TRFRE	TRFRE	TRFRE	TRFRE	TRFRE
Rating Type	Jul-25-2016	Jul-25-2016	Aug-29-2016	Aug-29-2016	Sep-14-2016
Rating Unit	count	biomass (g)	count	biomass (g)	injury
Trt-Eval Interval	0.25 m2	0.25 m2	0.25 m2	0.25 m2	percent
Number of Decimals	265 DA-A	265 DA-A	300 DA-A	300 DA-A	316 DA-A
	0	1	0	1	0

Trt No.	Treatment Name	Rate	Appl Code					
		Rate Unit						
1	Affinity Broadspec	0.75 oz/a	A	69	3.6	35	28.3	0
1	Surfactant	0.25 % v/v	A					
1	AMS	2 lb/a	A					
2	Huskie	15 fl oz/a	A	59	4.4	43	27.2	4
2	Surfactant	0.25 % v/v	A					
2	AMS	1 lb/a	A					
3	Osprey	4.75 oz/a	A	57	3.0	40	26.9	1
3	Surfactant	0.25 % v/v	A					
3	AMS	2 lb/a	A					
4	PowerFlex HL	2 oz/a	A	61	5.7	29	29.3	4
4	Surfactant	0.25 % v/v	A					
4	AMS	2 lb/a	A					
5	Untreated Check			59	3.7	34	21.2	0
6	Widematch	1.33 pt/a	A	21	1.0	15	13.1	36
7	Quelex (GF-2686)	0.75 oz/a	A	5	0.3	4	2.8	86
7	Surfactant	0.25 % v/v	A					
8	Huskie	13.5 fl oz/a	A	51	2.6	31	20.5	6
8	Osprey	4.75 oz/a	A					
8	Surfactant	0.25 % v/v	A					
8	AMS	1 lb/a	A					
LSD P=.05				29.7	3.36	14.2	9.42	5.9
Standard Deviation				20.2	2.28	9.7	6.41	4.0
CV				42.42	75.08	33.65	30.29	23.22