

MSU Weed Science Research Program

Herbicide tolerance of underseeded clover in wheat

Trial ID: WT05-12 Study Dir.: Sprague, Powell, Taylor  
 Conducted: C-25 Campus Investigator: Christy Sprague

**Date Planted:** Nov/04/2011 **Row Spacing:** 7.5 IN  
**Variety:** Hopewell **No. of Reps:** 4  
**Population:** 2 million seeds/A **% OM:** 3.7  
**Soil Type:** Loam **pH:** 6.7  
**Plot Size:** 10 X 30 FT **Design:** RANDOMIZED COMPLETE BLOCK

**Tillage:** Drilled into soybean stubble  
**Fertilizer:** None at planting

**Crop and Weed Description**

<b>Weed</b>	<b>Code</b>	<b>Common Name</b>	<b>Scientific Name</b>
1.	TRFRE	CLOVER	TRI FOLIUM REPENS L.
<b>Crop</b>	<b>Code</b>	<b>Common Name</b>	
1.	TRZAW	WHEAT, WINTER	

**Application Description**

**Application Timing:** A  
 POST  
**Date Treated:** Apr/12/2012  
**Time Treated:** 6:30 PM  
**% Cloud Cover:** 50  
**Air Temp., Unit:** 60 F  
**% Relative Humidity:** 30  
**Wind Speed/Unit/Dir:** 4 mph W  
**Soil Temp., Unit:** 56 F  
**Soil/Leaf Surface M:** 5 5  
**Soil Moist (1=w 5=d):** 5

**Crop Stage at Each Application**

**Crop Name:** A  
 TRZAW  
**Height (In.):** 8"  
**Stage (L):** FEEKES 6

**Weed Stage at Each Application**

**Weed 1 Name:** A  
 TRFRE  
**Height (In.):** .75"  
**Stage (L):** 3

**Application Equipment**

<b>Appl</b>	<b>Sprayer</b>	<b>Speed</b>	<b>Nozzle</b>	<b>Nozzle</b>	<b>Nozzle</b>	<b>Nozzle</b>	<b>Boom</b>		
A	Cub	3.8	AirMix	11003	26"	20"	100"	19	water 28

**Comments:** 3/15/12 - Medium red clover was frost seeded to the entire study.

MSU Weed Science Research Program

Herbicide tolerance of underseeded clover in wheat

Trial ID: WT05-12 Study Dir.: Sprague, Powell, Taylor  
 Conducted: C-25 Campus Investigator: Christy Sprague

Crop Code	TRZAW	TRZAW	TRFRE	TRZAW	TRZAW
Rating Data Type	injury	injury	injury	moisture	yield
Rating Unit	percent	percent	percent	percent	bu/acre
Rating Date	Apr/19/2012	May/01/2012	May/01/2012	Jul/10/2012	Jul/10/2012
Trt-Eval Interval	7 DA-A	19 DA-A	19 DA-A	89 DA-A	at 13% M
ARM Action Codes					TY1
# Subsamples, Dec.	0	0	0	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate Unit	Grow Stg	Appl Code	TRZAW injury percent	TRZAW injury percent	TRFRE injury percent	TRZAW moisture percent	TRZAW yield bu/acre
1	Untreated						0	0	0	13.4	100.0
2	Affinity BroadSpec Activator 90	50	SG L	0.75 oz/a 0.25 % v/v	POST A	A	6	0	83	12.9	100.6
3	Affinity BroadSpec 28% UAN (50% carrier)	50	SG L	0.75 oz/a 9.5 gal/a	POST A	A	6	0	71	12.7	105.0
4	Harmony SG Activator 90	50	SG L	0.75 oz/a 0.25 % v/v	POST A	A	1	0	78	13.1	103.9
5	Harmony SG 28% UAN (50% carrier)	50	SG L	0.75 oz/a 9.5 gal/a	POST A	A	0	0	71	12.9	104.3
6	Huskie Activator 90 AMS	2.06	L WG	11 fl oz/a 0.25 % v/v 1 lb/a	POST A	A	0	0	79	13.2	101.0
LSD (P=.05)							1.2	0.0	11.7	0.46	4.02
CV							38.98	0.0	12.27	2.33	2.61

Means followed by same letter do not significantly differ (P=.05, LSD)

MSU Weed Science Research Program

Crop Code	TRFRE	TRZAW
Rating Data Type	injury	counts
Rating Unit	percent	1m^2
Rating Date	Jul/16/2012	Jul/16/2012
Trt-Eval Interval	95 DA-A	95 DA-A
ARM Action Codes		
# Subsamples, Dec.	0	0

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Unit	Grow Stg	Appl Code	TRFRE	TRZAW
1	Untreated							13	57
2	Affinity BroadSpec Activator 90	50	SG	0.75	oz/a	POST	A	99	1
			L	0.25	% v/v	POST	A		
3	Affinity BroadSpec 28% UAN (50% carrier)	50	SG	0.75	oz/a	POST	A	99	1
			L	9.5	gal/a	POST	A		
4	Harmony SG Activator 90	50	SG	0.75	oz/a	POST	A	95	2
			L	0.25	% v/v	POST	A		
5	Harmony SG 28% UAN (50% carrier)	50	SG	0.75	oz/a	POST	A	94	2
			L	9.5	gal/a	POST	A		
6	Huskie Activator 90	2.06	L	11	fl oz/a	POST	A	99	1
			L	0.25	% v/v	POST	A		
	AMS		WG	1	lb/a	POST	A		
LSD (P=.05)								17.6	9.6
CV								14.09	61.34

Means followed by same letter do not significantly differ (P=.05, LSD)