

MSU Weed Science Research Program

Broadleaf weed control in winter wheat with Huskie tank-mixtures

Trial ID: WT03-13 Study Dir.: Sprague, Powell
 Conducted: Campus T-18 Investigator: Christy Sprague

Date Planted: Oct/26/2013 **Row Spacing:** 7.5 IN
Variety: 'Red Ruby' **No. of Reps:** 4
Population: 2 million seeds/A **% OM:** 4.8
Soil Type: Loam **pH:** 6.5
Plot Size: 10 X 40 FT **Design:** RANDOMIZED COMPLETE BLOCK

Tillage: Fall soil finish soybean stubble
Fertilizer: None at planting
 3/14/13- Topdress with 200 lb/A urea (90 lb/A N)

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	AMBEL	RAGWEED, COMMON	AMBROSIA ARTEMISII FOLIA L.
2.	CHEAL	LAMBSQUARTERS, COMMON	CHENOPODIUM ALBUM L.
3.	LAMAM	HENBIT	LAMUM AMPLEXICAULE L.
4.	STEME	CHICKWEED, COMMON	STELLARIA MEDIA (L.)
Crop	Code	Common Name	
1.	TRZAW	WHEAT, WINTER	

Application Description

Application Timing: A
 POST
Date Treated: May/07/2013
Time Treated: 5:30 PM
% Cloud Cover: 50
Air Temp., Unit: 80 F
% Relative Humidity: 40
Wind Speed/Unit/Dir: 3 mph SE
Soil Temp., Unit: 78 F
Soil/Leaf Surface M: 5 5
Soil Moist (1=w 5=d): 3

Crop Stage at Each Application

Crop Name: A
 TRZAW
Height (In.): 28"
Stage (L): Feeke's 6

Weed Stage at Each Application

Weed 1 Name: A
 AMBEL
Height (In.): 1"
Stage (L): 1-2
Weed 2 Name: CHEAL
Height (In.): 1"
Stage (L): 2-4
Weed 3 Name: LAMAM
Height (In.): 2"
Stage (L): 8
Weed 4 Name: STEME
Height (In.): 4"
Stage (L): 40-150

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom			
	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier	PSI
A	Cub	3.8	AIXR	11003	30"	20"	100"	19	water	28

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Weed Code							STEME	LAMAM	CHEAL	
Crop Code							TRZAW	TRZAW		
Rating Data Type							injury	injury	control	
Rating Unit							percent	percent	percent	
Rating Date							May/14/2013	May/22/2013	May/22/2013	
Trt-Eval Interval							7 DA-A	15 DA-A	15 DA-A	
ARM Action Codes										
# Subsamples, Dec.							0	0	0	
Trt No.	Treatment Name	Form Conc	Form Type	Rate Rate	Rate Unit	Grow Stg	Appl Code			
1	Untreated							0	0	0
2	Huskie	2.06	L	11	fl oz/a	POST	A	0	0	98
	Surfactant		L	0.25	% v/v	POST	A			99
	AMS		WG	1	lb/a	POST	A			99
3	Huskie	2.06	L	13.5	fl oz/a	POST	A	0	0	99
	Surfactant		L	0.25	% v/v	POST	A			99
	AMS		WG	1	lb/a	POST	A			99
4	Huskie	2.06	L	13.5	fl oz/a	POST	A	19	9	99
	Clarity	4	L	4	fl oz/a	POST	A			99
	Surfactant		L	0.25	% v/v	POST	A			99
	AMS		WG	1	lb/a	POST	A			99
5	Huskie	2.06	L	13.5	fl oz/a	POST	A	0	0	99
	Starane Ultra	2.8	L	0.33	pt/a	POST	A			99
	Surfactant		L	0.25	% v/v	POST	A			99
	AMS		WG	1	lb/a	POST	A			99
6	Huskie	2.06	L	13.5	fl oz/a	POST	A	8	3	96
	2,4-D Amine	4	L	0.5	pt/a	POST	A			99
	Surfactant		L	0.25	% v/v	POST	A			99
	AMS		WG	1	lb/a	POST	A			99
7	Affinity BroadSpec	50	WG	0.75	oz/a	POST	A	0	0	99
	2,4-D Amine	4	L	0.5	pt/a	POST	A			99
	Surfactant		L	0.125	% v/v	POST	A			99
LSD (P=.05)								2.8	1.8	2.6
CV								50.03	69.82	2.05
									4.2	3.46
										0.3
										0.22

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

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Weed Code	AMBEL	CHEAL	AMBEL	TRZAW	TRZAW
Crop Code					
Rating Data Type	control	control	control	moisture	yield
Rating Unit	percent	percent	percent	percent	bu/A
Rating Date	May/22/2013	Jul/25/2013	Jul/25/2013	Jul/24/2013	Jul/24/2013
Trt-Eval Interval	15 DA-A	79 DA-A	79 DA-A	78 DA-A	78 DA-A
ARM Action Codes					TY2
# Subsamples, Dec.	0	0	0	1	1

Trt No.	Treatment Name	Form Conc	Form Type	Form Rate	Rate Unit	Grow Stg	Appl Code	AMBEL	CHEAL	AMBEL	TRZAW moisture	TRZAW yield
1	Untreated							0	0	0	15.2	70.4
2	Huskie Surfactant AMS	2.06	L	11	fl oz/a	POST A	99	99	92	92	15.0	66.2
			L	0.25	% v/v	POST A						
			WG	1	lb/a	POST A						
3	Huskie Surfactant AMS	2.06	L	13.5	fl oz/a	POST A	99	99	96	96	14.5	66.4
			L	0.25	% v/v	POST A						
			WG	1	lb/a	POST A						
4	Huskie Clarity Surfactant AMS	2.06	L	13.5	fl oz/a	POST A	99	99	98	99	14.4	67.3
		4	L	4	fl oz/a	POST A						
			L	0.25	% v/v	POST A						
			WG	1	lb/a	POST A						
5	Huskie Starane Ultra Surfactant AMS	2.06	L	13.5	fl oz/a	POST A	99	99	96	99	15.1	68.2
		2.8	L	0.33	pt/a	POST A						
			L	0.25	% v/v	POST A						
			WG	1	lb/a	POST A						
6	Huskie 2,4-D Amine Surfactant AMS	2.06	L	13.5	fl oz/a	POST A	99	99	92	98	14.7	67.5
		4	L	0.5	pt/a	POST A						
			L	0.25	% v/v	POST A						
			WG	1	lb/a	POST A						
7	Affinity BroadSpec 2,4-D Amine Surfactant	50	WG	0.75	oz/a	POST A	81	81	90	80	14.8	67.7
		4	L	0.5	pt/a	POST A						
			L	0.125	% v/v	POST A						
LSD (P=.05)								3.5	9.3	8.7	0.74	3.21
CV								2.89	7.76	7.28	3.33	3.18

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