

MSU Weed Science Research Program

Weed coontrol systems in winter wheat

Trial ID: WT03-11 Study Dir.: Sprague, Powell
Conducted: B8 Adam's ,MSU CSS Investigator: Christy Sprague

Date Planted: 10/8/2010 Row Spacing: 7.5 IN
Variety: Red Ruby No. of Reps: 4
Population: 2 million seeds/acre % OM: 3.0
Soil Type: Loam pH: 7.3
Plot Size: 10 X 40 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: No-till direct seeded into bry bean stubble.
Fertilizer: None at planting.
Spring topdressed wheat with 200#/A urea (90#/A nitrogen).

Table with 4 columns: Weed Code, Common Name, Scientific Name, and Crop Code. Lists weeds 1-3 and crop 1.

Application Description

Application Timing: POST
Date Treated: 5/9/2011
Time Treated: 6:00 PM
% Cloud Cover: 95
Air Temp., Unit: 69 F
% Relative Humidity: 43
Wind Speed/Unit/Dir: 4 mph E
Soil Temp., Unit: 62 F
Soil/Leaf Surface M: 5 5
Soil Moist (1=w 5=d): 3

Crop Stage at Each Application

Crop Name: TRZAW
Height (In.): 12-16"
Stage (L): Fekes 6

Weed Stage at Each Application

Weed 1 Name: THLAR
Height (In.): 17-23"
Stage (L): flowering
Weed 2 Name: STEME
Height (In.): 6-7"
Stage (L): flowering
Weed 3 Name: POAAN
Height (In.): -
Stage (L): -

Application Equipment

Table with 11 columns: Appl, Sprayer Type, Speed MPH, Nozzle Type, Nozzle Size, Nozzle Height, Nozzle Spacing, Boom Width, GPA, Carrier, PSI. Row A: Cub, 3.8, Air Mix, 11003, 28", 20", 100", 19, water, 28

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Weed Code													
Crop Code								TRZAW	TRZAW	POAAN	STEME	THLAR	TRZAW
Rating Data Type								injury	injury	control	control	control	yield
Rating Unit								percent	percent	percent	percent	percent	bu/acre
Rating Date								5/16/2011	5/23/2011	5/23/2011	5/23/2011	5/23/2011	7/15/2011
Trt-Eval Interval								7 DAT	14 DAT	14 DAT	14 DAT	14 DAT	67 DA-A
# Subsamples, Dec.													1

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
1	Huskie	2.14	L	11	fl oz/a	POST	A	0.0	0.0	0.0	65.0	80.0	98.0
1	Activator 90		L	0.5	% v/v	POST	A						
1	28% UAN		L	2	qt/a	POST	A						
2	Affinity Broadspec	50	WG	0.75	oz/a	POST	A	10.0	5.0	0.0	67.5	70.0	93.2
2	Activator 90		L	0.25	% v/v	POST	A						
3	Osprey	4.5	WG	4.76	oz/a	POST	A	0.0	0.0	0.0	0.0	22.5	96.3
3	Activator 90		L	0.5	% v/v	POST	A						
3	28% UAN		L	2	qt/a	POST	A						
4	Huskie	2.14	L	12.8	fl oz/a	POST	A	0.0	0.0	0.0	63.8	77.5	89.6
4	Activator 90		L	0.5	% v/v	POST	A						
4	28% UAN		L	2	qt/a	POST	A						
5	Huskie	2.14	L	12.8	fl oz/a	POST	A	2.5	2.5	0.0	70.0	77.5	99.0
5	Osprey	4.5	WG	4.76	oz/a	POST	A						
5	Activator 90		L	0.5	% v/v	POST	A						
5	28% UAN		L	2	qt/a	POST	A						
6	Untreated							1.3	0.0	0.0	0.0	0.0	90.4
7	Stratego Yield	0.76	L	2.5	fl oz/a	POST	A	10.0	5.0	0.0	63.8	75.0	98.1
7	Huskie	2.14	L	12.8	fl oz/a	POST	A						
7	Activator 90		L	0.5	% v/v	POST	A						
7	28% UAN		L	2	qt/a	POST	A						
8	Stratego Yield	0.76	L	2.5	fl oz/a	POST	A	0.0	0.0	0.0	0.0	22.5	100.5
8	Osprey	4.5	WG	4.76	oz/a	POST	A						
8	Activator 90		L	0.5	% v/v	POST	A						
8	28% UAN		L	2	qt/a	POST	A						
LSD (P=.05)								2.74	2.60	0.00	8.45	7.48	7.20
Standard Deviation								1.86	1.77	0.00	5.75	5.09	4.90
CV								62.65	113.14	0.0	13.93	9.58	5.12

Means followed by same letter do not significantly differ (P=.05, LSD)
 Mean comparisons performed only when AOV Treatment P(F) is significant at mean comparison OSL.