

MSU Weed Science Research Program

Altantis-based herbicide programs for weed control in winter wheat

Trial ID: WT03-10 Study Dir.: Sprague, Powell
Conducted: MSU - Irridrain Investigator: Christy Sprague

Date Planted: 10/1/2009 Row Spacing: 7.5 IN
Variety: Red Ruby No. of Reps: 4
Population: 2,000,000 seeds/acre % OM: 2.9
Soil Type: Loam pH: 6.6
Plot Size: 10 X 30 FT Design: RANDOMIZED COMPLETE BLOCK

Crop and Weed Description

Table with 4 columns: Weed Code, Common Name, Scientific Name. Rows include STEME (CHICKWEED), THLAR (PENNYCRESS), CHEAL (LAMBSQUARTERS), and TRZAW (WHEAT).

Application Description

Application Timing: POST
Date Treated: 4/19/2010
Time Treated: 2:40 pm
% Cloud Cover: 0
Air Temp., Unit: 59 F
% Relative Humidity: 38
Wind Speed/Unit/Dir: 2 mph N
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: TRZAW
Height (In.): 4-7"
Stage (L): Feeke 5

Weed Stage at Each Application

Weed 1 Name: STEME Height (In.): 2" Stage (L): 8
Weed 2 Name: THLAR Height (In.): 1" Stage (L): 4-6
Weed 3 Name: CHEAL Height (In.): 1/4" Stage (L): 2-3

Weed Density (plants/sq. ft.)

Table with 3 columns: Weed Name, Density. Rows for STEME, THLAR, CHEAL.

Application Equipment

Table with 11 columns: Appl Type, Sprayer, Speed MPH, Nozzle Type, Nozzle Size, Nozzle Height, Nozzle Spacing, Boom Width, GPA, Carrier, PSI.

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Weed Code									STEME	THLAR	CHEAL
Crop Code											
Rating Data Type									control	control	control
Rating Unit									percent	percent	percent
Rating Date									5/10/2010	5/10/2010	5/10/2010
Trt-Eval Interval									21 DA-A	21 DA-A	21 DA-A
# Subsamples, Dec.											

Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	Appl Code						
1	Untreated							0.0	0.0	0.0	0.0	0.0	
2	Huskie	2.08	L	12.8	fl oz/a	POST	A	0.0	0.0	0.0	99.0	98.0	
2	Activator 90		L	0.5	% v/v	POST	A						
2	28% UAN		L	4	pt/a	POST	A						
3	Osprey	4.5	WG	4.76	oz/a	POST	A	0.0	10.0	0.0	42.5	82.5	
3	Activator 90		L	0.5	% v/v	POST	A						
3	28% UAN		L	4	pt/a	POST	A						
4	Atlantis	3.6	WG	5.95	oz/a	POST	A	0.0	8.8	0.0	99.0	91.3	
4	Activator 90		L	0.5	% v/v	POST	A						
4	28% UAN		L	4	pt/a	POST	A						
5	Atlantis	3.6	WG	5.95	oz/a	POST	A	0.0	6.3	0.0	99.0	90.3	
5	MSO		L	1.3	pt/a	POST	A						
6	Atlantis	3.6	WG	7	oz/a	POST	A	0.0	10.0	0.0	99.0	83.8	
6	Activator 90		L	0.5	% v/v	POST	A						
6	28% UAN		L	4	pt/a	POST	A						
7	Atlantis	3.6	WG	5.95	oz/a	POST	A	0.0	10.0	0.0	99.0	99.0	
7	Huskie	2.08	L	12.8	fl oz/a	POST	A						
7	Activator 90		L	0.5	% v/v	POST	A						
7	28% UAN		L	4	pt/a	POST	A						
8	2,4-D Ester	3.8	L	1	pt/a	POST	A	0.0	0.0	0.0	0.0	99.0	
8	28% UAN		L	4	pt/a	POST	A					55.0	
LSD (P=.05)								0.00	2.78	0.00	8.88	5.77	5.26
Standard Deviation								0.00	1.89	0.00	6.04	3.92	3.57
CV								0.0	33.6	0.0	8.99	4.88	5.08