

MSU Weed Science Research Program

Cheatgrass control in winter wheat, 2006

Trial ID: W0206
Conducted:

Study Dir.:
Investigator: Christy Sprague

Date Planted: 9/19/2005 Row Spacing: 7 IN
Variety: Hopewell No. of Reps: 4
Population: 1.7 million S/A % OM:
Soil Type: silt loam pH: 6.5
Plot Size: 10 X 35 FT Design: RANDOMIZED COMPLETE BLOCK

Tillage: No-Till
Fertilizer: 250 lbs/ac of 9-20-18, 80 lbs/ac N at greenup

Crop and Weed Description

Weed	Code	Common Name	Scientific Name
1.	BROSE	CHEAT	BROMUS SECALINUS L.
Crop	Code	Common Name	
1.	TRZAW	WHEAT, WINTER	

Application Description

A
Application Timing: SPRING
Date Treated: 4/22/2006
Time Treated: 11:30 AM
% Cloud Cover: 5
Air Temp., Unit: 57 F
% Relative Humidity: 53
Wind Speed/Unit/Dir: 7 mph NE
Soil Temp., Unit: 48 F
Soil/Leaf Surface M: 3
Soil Moist (1=w 5=d): 5

Crop Stage at Each Application

A
Crop Name: TRZAW
Height (In.): 6-9 (7)
Stage (L): FKS 4

Weed Stage at Each Application

A
Weed 1 Name: BROSE
Height (In.): .25-4 (3)
Stage (L): TILLER

Weed Density (plants/sq. ft.)

1
Date: 4/27/2006
Weed Name: BROSE
Density: 6

Application Equipment

Appl	Sprayer	Speed	Nozzle	Nozzle	Nozzle	Nozzle	Boom		
	Type	MPH	Type	Size	Height	Spacing	Width	GPA	Carrier PSI
A	CUB	3.5	FF	8003	22"	20"	100	20	H20 30

Comments: Entire study recieved 25 gallon 28% nitrogen and 1 pt 2,4-D ester/acre on April 20, 2006.

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Weed Code						TRZAW		BROSE		POAAN		BROSE		POAAN	
Crop Code						injury		control		control		control		control	
Rating Data Type						percent		percent		percent		percent		percent	
Rating Unit						5/11/2006		5/11/2006		5/11/2006		5/25/2006		5/25/2006	
Rating Date						14 DAT		14 DAT		14 DAT		28 DAT		28 DAT	
Trt-Eval Interval						14 DAT		14 DAT		14 DAT		28 DAT		28 DAT	
Trt No.	Treatment Name	Form Conc	Form Type	Rate	Rate Unit	Grow Stg	1	2	3	4	5	6	7	8	
1	Untreated						0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
2	Olympus 70%	70	WG	0.63	oz ai/a	1-2 Till	0.0	22.5	25.0	0.0	57.5	25.0	43.8	66.3	
2	Activator 90		L	0.5	% v/v	1-2 Till									
3	Olympus 70%	70	WG	0.63	oz ai/a	1-2 Till	0.0	22.5	25.0	0.0	70.0	15.0	61.3	76.3	
3	Activator 90		L	0.5	% v/v	1-2 Till									
3	Ammonium Sulfate		DF	3	lb/a	1-2 Till									
4	Olympus 70%	70	WG	0.42	oz ai/a	1-2 Till	0.0	22.5	32.5	0.0	75.0	27.5	52.5	82.5	
4	Activator 90		L	0.5	% v/v	1-2 Till									
5	Olympus 70%	70	WG	0.42	oz ai/a	1-2 Till	0.0	20.0	22.5	0.0	77.5	38.8	48.8	70.0	
5	Activator 90		L	0.5	% v/v	1-2 Till									
5	Ammonium Sulfate		DF	3	lb/a	1-2 Till									
6	Olympus 70%	70	WG	0.21	oz ai/a	1-2 Till	0.0	22.5	30.0	0.0	81.3	36.3	51.8	37.5	
6	Activator 90		L	0.5	% v/v	1-2 Till									
7	Olympus 70%	70	WG	0.21	oz ai/a	1-2 Till	0.0	20.0	27.5	0.0	60.0	12.5	41.3	36.3	
7	Activator 90		L	0.5	% v/v	1-2 Till									
7	Ammonium Sulfate		DF	3	lb/a	1-2 Till									
8	Osprey	4.5	WG	0.21375	oz ai/a	1-2 Till	0.0	27.5	27.5	0.0	93.8	95.0	99.3	91.3	
8	Ammonium Sulfate		DF	3	lb/a	1-2 Till									
8	Activator 90		L	0.5	% v/v	1-2 Till									
9	Sencor	75	DF	2.25	oz ai/a	1-2 Till	0.0	22.5	17.5	0.0	40.0	12.5	27.5	22.5	
10	Olympus 70%	70	WG	0.21	oz ai/a	1-2 Till	0.0	27.5	40.0	0.0	83.8	93.8	99.3	96.3	
10	Osprey	4.5	WG	0.135	oz ai/a	1-2 Till									
10	Ammonium Sulfate		DF	3	lb/a	1-2 Till									
10	Activator 90		L	0.5	% v/v	1-2 Till									
LSD (P=.05)							0.00	11.44	15.36	0.00	22.29	26.14	28.55	23.25	
Standard Deviation							0.00	7.88	10.59	0.00	15.37	18.02	19.68	16.02	
CV							0.0	37.99	42.78	0.0	24.06	50.57	37.46	27.68	