

Broadleaf Report - 2001 Crops Day

2001 Broadleaf Weed Control in Spring Wheat at Hettinger.

(Eriksmoen)

Reeder hard red spring wheat was seeded on April 26. Treatments were applied to 3 ½ leaf wheat and to ½ inch tall kochia on May 25 with 47 F, 78 % RH, clear sky and 5 mph wind. There was a light frost 2 ½ hours prior to application. Treatments were applied with a tractor mounted CO2 propelled plot sprayer delivering 17 gpa at 40psi through 8001 flat fan nozzles to a 5 foot wide area the length of 10 by 28 foot plots. The experiment was a randomized complete block design with four replications. Kochia population was 24 plants per sq. foot. The trial was sprayed with 10 oz/A Puma on June 7 to control wild oats. Evaluations for crop injury were on May 29 and June 7, and for kochia control on June 12 and July 30. The trial was severely damaged by hail on June 18 and was not harvested.

Treatment	Product Rate	5/29	6/7	6/12	7/30
		HRSW	HRSW	Kocz	Kocz
		% Injury		% Control	
1 Fluroxypyr	0.25	0	0	86	70
2 Fluroxypyr	0.5	0	0	94	86
3 Fluroxypyr	1	0	0	94	89
4 Fluroxypyr	1.5	0	0	95	79
5 Fluroxypyr	2	0	5	95	82
6 Brox & MCPA (4 lb formulation)	8	0	1	95	94
7 Brox & MCPA (5 lb formulation)	8	2	1	95	92
8 Fluroxypyr & MCPA	8	0	2	95	95
9 Fluroxypyr & 2,4-D	7.5	1	0	95	94
10 Dicamba + MCPA	1.5 + 4	2	7	95	94
11 Thif & Trib + Flox & MCPA	0.22 + 5.4	6	3	95	94
12 Thif&Trib+Carf+MCPA+Act 90+UAN	0.22+0.128+4+.25%+4%	6	5	95	94
13 Carf + MCPA + Act 90 + UAN	0.128 + 6 + .25% + 4%	14	4	94	95
14 Carf + Flox & MCPA + Act 90 + UAN	0.128 + 5.6 + .25% + 4%	15	0	95	91
15 Untreated	0	0	0	0	0
	C.V. %	47.9	230	2.6	14.7
	LSD 5%	2	ns	3	17

Summary

Carfentrazone treatments (trts 13 & 14) caused significant but temporary crop injury (chlorosis). All herbicide treatments provided excellent season long kochia

control except for the low rate of Fluroxypyr (trt 1) and the two high rates of Fluroxypyr (trts 4 & 5) which had good initial levels of control but declined after that point.