

Broadleaf Weed Control in Wheat at Hettinger

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Reeder hard red spring wheat was seeded on April 18. Treatments were applied to 3 ½ leaf wheat, ¼” kochia and 1 ½” wild buckwheat on May 24 with 65°F, 40% RH, cloudy sky and 8 mph N wind. Treatments were applied with a tractor mounted CO² propelled plot sprayer delivering 10 gpa at 30 psi through PK-01E80 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 and wild buckwheat populations were 23 and 1 plants per ft², respectively. Plots were evaluated for crop injury on June 9 and for weed control on June 9, June 23 and July 22. The trial was harvested on August 5.

Treatment	Product Rate	----- June 9 -----			-- June 23 --		7/22	Grain Yield	
		HRSW	Kocz	Wibw	Kocz	Wibw	Kocz		
	oz/Ac	----- % Control -----						bu/Ac	
1	Starane & Salvo	16	0	88	50	95	91	99	15.5
2	Starane & Sward	12.3	0	84	48	94	88	96	14.2
3	Bronate Advance	12.8	0	91	91	95	96	99	16.0
4	Bromoxynil & 2,4-D	16	0	92	91	95	94	99	14.5
5	Aim + Clarity	0.5 + 2.0	0	92	45	94	50	99	14.7
6	Aim + Harmony XP + Salvo	0.5 + 0.3 + 8.5	0	92	85	94	90	96	14.2
7	WideMatch	16	0	91	81	96	92	99	17.4
8	WideMatch	10.7	0	85	50	94	90	99	15.1
9	WideMatch + Aim	10.7 + 0.5	0	91	52	97	94	99	16.8
10	WideMatch + Harmony XP	10.7 + 0.3	0	91	91	92	94	97	16.7
11	WideMatch + Bronate Adv.	10.7 + 9.6	0	94	91	97	98	99	15.0
12	WideMatch + Salvo	10.7 + 8.5	0	90	52	92	94	97	15.9
13	Untreated		0	0	0	0	0	0	11.0
C.V. %			0	4.7	13.9	4.2	5.3	2.7	12.5
LSD .05			--	6	13	5	6	4	2.7

Kocz = kochia, Wibw = wild buckwheat.

Summary

No crop injury was observed. All herbicide treatments provided excellent season long kochia control. Treatments containing bromoxynil (trts 3, 4, 11) or Harmony XP (trts 6 and 10) tended to have better activity on wild buckwheat however, all treatments, with the exception of Aim + Clarity (trt 5), provided very good season long control. Grain yields of all herbicide treatments were significantly higher than the untreated check.