

**Broadleaf Weed Control in Spring Wheat at Hettinger.** Reeder hard red spring wheat was seeded on April 15. Treatments were applied to 3 ½ leaf wheat, to 2 leaf wild buckwheat and to ½ inch tall kochia on May 20 with 43°F, 94% RH, clear sky and 2 mph NW wind. Treatments were applied with a tractor mounted CO<sup>2</sup> propelled plot sprayer delivering 10 gpa at 40 psi through 8001.5 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. Wild buckwheat and kochia populations were 0.3 and 1 plants per sq. foot, respectively. The trial sustained frost on May 13 (16°F) and on June 18 (25°F), and received a total of 5.4 inches of growing season rainfall (April 1 - July 31). Evaluations for crop injury were on June 3 and for weed control on July 13. The trial was not harvested.

Treatment		Rate	June 6 HRSW	July 13 Wibw	kocz
Product	oz/A	----- % Control -----			
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1	Salvo	16	0	80	45
2	Sward	12.3	0	33	60
3	Bronate Advance	12.8	0	99	99
4	Aim + Salvo	0.5 + 12.8	3.8	50	92
5	Aim + Clarity	0.5 + 2	0.5	96	83
6	Aim + Harmony XP	0.5 + 0.3	0	65	28
7	WideMatch	16	0	98	83
8	WideMatch	11	1.2	99	99
9	WideMatch + Aim	11 + 0.5	0	99	99
10	WideMatch + Harmony XP	11 + 0.3	0	99	99
11	WideMatch + Express XP	11 + 0.24	0	94	98
12	WideMatch + Bronate Advance	11 + 9.6	0	99	99
13	Untreated	0	0	0	0
C.V. %			242	35.7	35.1
LSD 5%			1.5	47	45

### Summary

Crop injury was relatively minor for all herbicide treatments. Bronate Advance (trt 3), Aim + Clarity (trt 5) and WideMatch treatments (trts 7 - 12) provided excellent wild buckwheat control. Bronate Advance (trt 3), Aim + Salvo (trt 4) and Widematch treatments (trts 8 - 12) provided excellent kochia control. Salvo and Sward treatments (trts 1 and 2) were deficient in providing both wild buckwheat and kochia control. The tank mix combination of Aim + Harmony XP may have antagonistic affects on broadleaf weed control.