

Broadleaf Weed Control with Pulsar Herbicide in Spring Wheat, Carrington, 2009.

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The experiment was conducted at the NDSU Carrington Research Extension Center in cooperation with Syngenta. The experimental design was a randomized complete block with three replicates. 'Glenn' HRS wheat was direct seeded May 11. Herbicide treatments were applied with a CO₂-pressurized hand-boom plot sprayer delivering 10 gal/A at 35 psi through 8001 flat-fan nozzles to the center 6.7 ft of 10 by 25 ft plots. POST treatments were applied on June 3 with 71° F, 21% RH, 90% clear sky, and 13 mph wind to 2.5-leaf wheat, and 0.5- to 3-inch tall kochia and horseweed. Axial XL at 16.4 fl oz/A was applied on June 10 to plots not previously treated with a grass herbicide.

No crop response was noted on July 8 or August 14. Kochia control ranged from 79 to 93% with treatments 4-7 during both evaluation dates (Table). Excellent ($\geq 90\%$) horseweed control was noted during both evaluation dates for treatments 2, 5, 7, 9, 11, 13, and 14.

Table. Broadleaf Weed Control with Pulsar Herbicide in Spring Wheat.						
Herbicide			Weed Control (%) ²			
Treatment ¹		Rate	7/8		8/14	
No.		fl oz product/A	kochia	howe	kochia	howe
1	untreated check		0	0	0	0
2	Axial TBC	8.9	27	99	13	99
	Adigor	9.6				
3	Pulsar	8.3	80	88	75	68
	NIS	0.25% v/v				
	MCPAe	8.6				
4	Pulsar	12.5	81	96	81	71
	NIS	0.25% v/v				
5	Pulsar	12.5	88	91	87	90
	NIS	0.25% v/v				
	MCPAe	8.6				
6	Pulsar	12.5	86	84	79	95
	NIS	0.25% v/v				
	Affinity TM	0.6 oz wt				
7	Pulsar	12.5	91	95	93	99
	NIS	0.25% v/v				
	WideMatch	16				
	Affinity TM	0.6 oz wt				
8	Orion	17	13	x	13	84
9	Orion	17	75	98	72	96
	WideMatch	16				
10	Orion	17	72	98	69	88
	Starane	5.3				
11	Orion	17	73	99	73	93
	Buctril	16				
12	Bronate Advanced	12.8	76	0	69	0
13	Wolverine	27.2	73	96	68	96
14	WideMatch	16	74	96	73	99
	MCPAe	8				
15	GoldSky	16	77	96	72	52
	NIS	0.25% v/v				
	AMS	48				
C.V. (%)			15.6	7.6	16.4	15.3
LSD (0.05)			17	11	17	19
¹ NIS = Preference (WinField Solutions); AMS = N-Pak AMS Liquid (WinField Solutions).						
² howe = horseweed.						