

Weed control with Raze herbicide in spring wheat, Carrington, 2011. Greg Endres. The experiment was conducted at the NDSU Carrington Research Extension Center in cooperation with Arysta LifeScience. Experimental design was a randomized complete block with three replicates. The conventional-till trial was seeded to 'Glenn' HRS wheat on May 31. Herbicide treatments were applied with a CO₂-hand-boom plot sprayer delivering 13 gal/A at 35 psi through 8001 flat fan nozzles to the center 6.7 ft of 10- by 20-ft plots on June 24 with 67 F, 77% RH and 7 mph wind to 4-leaf wheat, 1- to 5-leaf yellow and green foxtail, 1- to 4-inch tall redroot and prostrate pigweed, and 2- to 6-inch tall volunteer flax. The trial was extensively damaged by hail on July 24 and was not harvested for seed yield.

Wheat injury was not observed on July 1. Foxtail population primarily was yellow foxtail. Foxtail generally was suppressed (69 to 76%) among treatments except poor (35 to 47%) control resulted with Raze + Huskie, Raze + Bronate and Rimfire Max + Huskie (table). Excellent (91 to 99%) control of pigweed was achieved among treatments except Raze + MCPA + NIS, Raze at 10.6 fl oz/A + MCPA + basic blend, and Rimfire Max + Huskie. Excellent (90 to 99%) control of volunteer flax occurred with all treatments except Rimfire Max + Huskie.

Table.

Treatment ²				Weed control ¹		
				21 to 28 days after treatment		
No.	Name	Rate	Unit	Foxtail	Pigweed	Volunteer flax
				%		
1	Untreated Check	x	x	0	0	0
2	Raze	7	fl oz/a	70	96	98
	MCPA Ester	0.75	pt/a			
	Basic Blend	1	% v/v			
3	Raze	9	fl oz/a	72	80	99
	MCPA Ester	0.75	pt/a			
	NIS	0.25	% v/v			
	Ammonium Sulfate	1	% v/v			
4	Raze	9	fl oz/a	75	97	99
	MCPA Ester	0.75	pt/a			
	Ammonium Sulfate	1	% v/v			
5	Raze	9	fl oz/a	69	91	93
	MCPA Ester	0.75	pt/a			
	Basic Blend	1	% v/v			
6	Raze	10.6	fl oz/a	71	83	95
	MCPA Ester	0.75	pt/a			
	Basic Blend	1	% v/v			
7	Everest 2.0	0.82	fl oz/a	73	95	99
	Supremacy	5	oz wt/a			
	Basic Blend	1	% v/v			
8	ARY-0454-107	5	oz wt/a	75	95	99
	Basic Blend	1	% v/v			
9	ARY-0454-107	6	oz wt/a	76	95	99
	Basic Blend	1	% v/v			
10	Raze	9	fl oz/a	76	96	96
	ARY-0546-001	0.3	oz wt/a			
	ARY-0547-001	0.1	oz wt/a			
	Basic Blend	1	% v/v			
11	Raze	9	fl oz/a	40	99	90
	Huskie	11	fl oz/a			
	Basic Blend	1	% v/v			
12	Raze	9	fl oz/a	47	99	99
	Bronate	1	pt/a			
	Basic Blend	1	% v/v			
13	Goldsky	1	pt/a	72	95	90
	Basic Blend	1	% v/v			
14	Rimfire Max	3	oz wt/a	35	85	71
	Huskie	11	fl oz/a			
	Basic Blend	1	% v/v			
CV (%)				15.7	9.6	10.9
LSD (0.05)				16	14	16

¹Foxtail=yellow and green; Pigweed=redroot and prostrate.

²Basic blend=Newtone; NIS=Preference (Winfield Solutions); AMS=N-Pak AMS Liquid (Agri-Solutions).

