

Broadleaf weed control with Huskie and TCM 4-Way in spring wheat, Carrington, 2011.

Greg Endres. The experiment was conducted at the NDSU Carrington Research Extension Center in cooperation with Bayer CropScience. Experimental design was a randomized complete block with three replicates. 'Glenn' HRS wheat was direct seeded into flax stubble on May 17. Herbicide treatments were applied with a CO₂-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. Treatments were applied on June 16 with 56 F, 100% RH (fog) and no wind to 4-leaf wheat, 1- to 8-inch wide sheperdspurse, 0.5- to 5-inch tall volunteer flax, 1- to 6-inch tall wild buckwheat, and 1- to 2-inch tall yellow woodsorrel. Puma herbicide at 10.6 fl oz/A was sequentially applied on June 16 to plots previously not receiving a grass herbicide except the untreated check. The trial was extensively damaged by hail on July 24 and was not harvested for seed yield.

Crop injury was not observed on June 24. Volunteer flax control was excellent (90 to 96%) with TCM 4-Way, WideMatch + MCPA, and Affinity TankMix + Starane when evaluated about 3 weeks after treatment (Table). Wild buckwheat control was good to excellent (86 to 92%) on July 9 with Huskie, TCM 4-Way, Wolverine, and WideMatch + MCPA. TCM 4-Way provided excellent (92 to 99%) control of all broadleaf weeds in the trial on July 9.

Table.		Weed control ¹						
Herbicide		24-Jun				9-Jul		
Treatment ²	Rate	Shpu	Vofl	Wibw	Yews	Shpu	Vofl	Wibw
	fl oz product/A	%						
Untreated check	x	0	0	0	0	0	0	0
Huskie + AMS	11 + 28	69	65	88	75	95	83	90
TCM 4-Way	13.7	80	70	85	69	99	92	92
Wolverine	27.4	75	65	85	78	96	73	86
WideMatch + MCPA	12 + 8	65	87	58	73	76	90	88
Affinity TankMix + Starane + NIS	0.6 oz wt + 5.3 + 0.25% v/v	72	83	78	70	90	96	78
C.V. (%)		8.4	6.7	16.6	7.8	12.0	13.7	9.6
LSD (0.05)		9	7	20	9	17	18	13
¹ Shpu=Sheperdspurse; Vofl=volunteer flax; Wibw=wild buckwheat; Yews=Yellow woodsorrel.								
² AMS=N-Pak (Agri-Solutions); NIS=Preference (Winfield Solutions).								