Broadleaf Weed Control with Huskie and Huskie Complete in Spring Wheat, Carrington; Bayer CropScience Collaboration

Greg Endres and Mike Ostlie

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 seeded on April 25. Herbicide treatments were applied with a CO_2-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 May 31 with 72° F, 23 percent RH and 7 mph wind to 4-leaf wheat, 1- to 4-inch tall wild buckwheat, 1- to 3-inch tall common lambsquarters, and 1- to 4-inch tall volunteer canola. Puma at 0.66 pt/A was sequentially applied on May 31 to plots previously not receiving a grass herbicide except the untreated check. The trial was harvested for seed yield on July 30.

Huskie, Huskie Complete, and Wolverine provided excellent control (98-99%) of common lambsquarters and volunteer canola, and generally good to excellent control (78-98%) of wild buckwheat (Table). Weed control generally was excellent three and seven weeks after treatment (WAT) with WideMatch + MCPA and Affinity TankMix + Starane. Wheat injury was not observed 1 WAT (June 8). Wheat seed yield was similar among treatments.

Table 1. Broadleaf weed control with Huskie and Huskie Complete in spring wheat.

Herbicide		Weed Control[1]									Wheat
		8-Jun			22-Jun			19-Jul			Seed
Treatment[2]	Rate	wibw	colq	voca	wibw	colq	voca	wibw	colq	voca	Yield
	fl oz product/A					%					bu/A
Untreated check	x	0	0	0	0	0	0	0	0	0	44.2
Huskie + AMS	11 + 18.8	98	99	99	86	99	98	98	99	99	49.0
Huskie Complete	13.7	96	99	98	89	99	98	98	99	99	46.2
Huskie Complete + AMS	13.7 +18.8	98	99	99	87	99	99	87	99	99	47.6
Wolverine	27.4	93	99	99	78	99	99	95	99	99	47.8
MCPA	12 + 8	78	82	78	91	97	99	99	99	99	47.4
Affinity TankMix + Starane + NIS	0.6 (oz wt) + 5.3 + 0.25%	80	77	78	72	96	99	97	99	99	43.1
C.V. (%)		4.6	2.0	2.6	9.1	2.7	1.1	3.2	0.0	0.0	9.7
LSD (0.05)		6	3	4	12	4	2	5	NS	NS	NS

[1]Wibw = wild buckwheat; colq = common lambsquarters; voca = volunteer canola.

[2]AMS = AMS-Xtra (Drexel); NIS = Preference (Winfield Solutions).