

**Weed control with GoldSky and GF-2705 in spring wheat, Carrington, 2011.** Greg Endres. The experiment was conducted at the NDSU Carrington Research Extension Center in cooperation with Dow AgroSciences. Experimental design was a randomized complete block with four replicates. The conventional-till trial was seeded to 'Glenn' HRS wheat on May 17. Herbicide treatments were applied with a CO<sub>2</sub>-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 on June 16 with 68 F, 82% RH and 9 mph wind to 4-leaf wheat, 2- to 4-leaf yellow and green foxtail, 1- to 4-inch tall volunteer flax, and 1- to 3-inch wide redroot and prostrate pigweed. The trial was extensively damaged by hail on July 24 and was not harvested for seed yield.

Foxtail species was primarily yellow foxtail. Foxtail control on July 2 was 70-76% with Axial XL, Everest 2.0, and Rimfire Max, while other grass herbicides provided good control (80 to 85%) (table). Grass herbicides provided 76 to 83% control on July 15 except Everest 2.0 and Rimfire Max. Herbicides provided excellent control (93 to 99%) of volunteer flax on July 15 except Axial XL + Affinity Tankmix + MCPA ester, Wolverine, Everest 2.0 + 2,4-D ester, and Rimfire Max + Bronate Advanced. All herbicides provided excellent control of pigweed. Significant wheat chlorosis was observed on June 20 and 24 with Rimfire Max + Bronate Advanced.

Table.

No.	Treatment Name	Rate	Unit	Weed control <sup>1</sup>						Wheat chlorosis	
				2-Jul			15-Jul			20-Jun	24-Jun
				Fota	Vofl	Pigw	Fota	Vofl	Pigw	0-9 <sup>2</sup>	
product			%								
1	Untreated Check	x	x	0	0	0	0	0	0	0	0
2	GOLDSKY NONIONIC SURFACTANT AMMONIUM SULFATE	16 0.5 1.5	fl oz/A % v/v lb/A	80	94	98	80	99	97	1	1
3	GOLDSKY NONIONIC SURFACTANT UAN 28%N	16 0.5 64	fl oz/A % v/v fl oz/A	80	91	96	78	94	95	0	0
4	GOLDSKY MCPA ESTER AMMONIUM SULFATE	16 8.6 1.5	fl oz/A fl oz/A lb/A	84	95	96	82	93	99	0	0
5	GF-2705 NONIONIC SURFACTANT AMMONIUM SULFATE	16 0.5 1.5	fl oz/A % v/v lb/A	85	94	98	79	96	99	1	2
6	GF-2705 NONIONIC SURFACTANT UAN 28%N	16 0.5 64	fl oz/A % v/v fl oz/A	83	93	98	80	96	99	1	2
7	GF-2705 NONIONIC SURFACTANT	16 0.5	fl oz/A % v/v	84	90	97	76	95	99	1	1
8	WIDEMATCH PYROXSULAM NONIONIC SURFACTANT AMMONIUM SULFATE	16 6.8 0.5 1.5	fl oz/A fl oz/A % v/v lb/A	85	98	98	81	98	99	0	2
9	WIDEMATCH	16	fl oz/A	0	99	99	0	97	91	0	0
10	AXIAL XL AFFINITY TANK MIX MCPA ESTER	16.4 0.6 13	fl oz/A oz wt/A fl oz/A	76	85	99	76	69	99	0	0
11	WOLVERINE	27.3	fl oz/A	86	20	99	83	36	99	0	0
12	EVEREST 2.0 2,4-D ESTER LV	0.75 8.6	fl oz/A fl oz/A	70	79	90	62	80	99	1	1
13	RIMFIRE MAX NONIONIC SURFACTANT AMMONIUM SULFATE BRONATE ADVANCED	3 0.25 1.5 12.8	oz wt/A % v/v lb/A fl oz/A	70	79	98	64	78	98	3	4
CV (%)				10.7	9.9	5.7	15.6	12.5	3.8	133.3	98.6
LSD (0.05)				10	11	7	14	14	5	1	1

<sup>1</sup>Fota=yellow and green foxtail; Vofl=volunteer flax; Pigw=redroot and prostrate pigweed.

<sup>2</sup>0=green and 9=yellow.

