

Postemergence Weed Control in Spring Wheat at Hettinger, ND, 2025.

A trial was conducted to evaluate postemergence herbicides for weed control in spring wheat. Spring wheat was planted on May 5, 2025. Herbicide treatments were applied on June 18 when wheat was in early tillering stage and 14 inches in height (see Table 1 for treatments and Table 2 for description of application). At time of application, kochia averaged 2.2 inches in height and was found at a density averaging 53 kochia per square foot. Other weeds present included green foxtail (2.2 in), and tame buckwheat (3.4 in). Kochia control with Huskie FX at 15.5 and 18 oz/A was 82 and 87%, respectively, 30 days after treatment (DAT). Kochia control with Tolvera (85% at 30 DAT) was similar to Huskie FX. Green foxtail control was poor in all treatments except Tolvera (94% at 30 DAT). Tame buckwheat control was 85 to 90% with all treatments except Talinor (68%) and Tolvera (79%). Wheat yield was similar for all herbicide treatments. While there was no yield increase, uncontrolled weeds increase soil seed bank levels and could be more troublesome in rotational crops.

Table 1. Evaluation of postemergence herbicides for weed control in spring wheat.

Treatment ^a	Rate oz/A	Kochia		Green foxtail		Tame buckwheat	Wheat yield
		15 DAT	30 DAT	15 DAT	30 DAT	15 DAT	69 DAT
		% control					Bu/A
1 Non-Treated		0e	0e	0d	0e	0d	32.6-
2 Huskie FX	15.5	82b	82bc	44b	39c	90a	37.1-
3 Huskie FX	18	87a	87a	44b	39c	90a	39.0-
4 WideARmatch MCPA Ester	14 8	79c	75d	49b	43bc	86a	40.8-
5 Talinor	13.7	70d	75d	51b	51b	68c	34.4-
6 Bison Starane Ultra	16 4.8	82b	81c	24c	21d	85a	38.1-
7 Tolvera	11	86a	85ab	89a	94a	79b	35.7-
LSD P=.05		2.3	3.7	8.4	9.2	5.9	6.27
Standard Deviation		1.9	3.0	6.8	7.5	4.9	5.11
CV		2.71	4.36	15.95	18.37	6.84	13.9
Treatment F		1093.261	419.197	63.187	58.708	176.628	1.195
Treatment Prob(F)		0.0001	0.0001	0.0001	0.0001	0.0001	0.3530

^aHuskie FX, bromoxynil + pyrasulfotole + fluroxypyr (2.3 lbai/gal); WideARmatch, clopyralid + hauxifen + fluroxypyr (1.88 lbai/gal); MCPA (4 lbai/gal); Talinor, bicyclopyrone + bromoxynil (1.77 lbai/gal); Bison, MCPA + bromoxynil (4 lbai/gal); Starane Ultra, fluroxypyr (2.8 lbai/gal), Tolvera, tolpyralate + bromoxynil (1.71 lbai/gal).

^bAbbreviations: DAT, days after treatment; lbai/gal, pounds active ingredient per gallon.

Table 2. Application environment and equipment for postemergence weed control in spring wheat.

Application Description	Application equipment		
Date	Jun-18-2025	Equipment Type	Tractor mounted
Start, Stop Time	2:27, 2:36 PM	Operation Pressure	40 PSI
Air Temperature Start, Stop	79.8, 83 F	Nozzle Model	11002DG
% Relative Humidity Start, Stop	35.2, 40	Nozzle Spacing	20 IN
Wind Velocity+Dir.	5.9 MPH, WSW	Boom Height	22.0 IN
Wind Velocity+Dir. Max	6.9 MPH, WSW	Ground Speed	4.1 MPH
Soil Temperature	60 F	Application Amount	10 GAL/AC

