

Evaluation of Huskie FX compared with other herbicides for weed control in spring wheat at Hettinger, ND, 2024

A trial was conducted at Hettinger, ND to evaluate weed control with the herbicide Huskie FX (fluroxypyr plus bromoxynil plus pyrasulfotole) compared with other herbicides used for weed control in spring wheat. Huskie FX is a relatively new herbicide registered for weed control in wheat, although it is essentially a new premix of herbicides that have been previously labelled. It has been demonstrated in the past to control many common broadleaf weeds that are problematic in spring wheat production in North Dakota. Wheat was seeded using a no-till drill on April 29, 2024 at a depth of 2 inches. One week prior to planting, glyphosate was applied to the entire plot area to control emerged weeds. Wheat emerged on May 13. Herbicide treatments (Table 1) were applied on June 7 when weeds were 2 to 3 inches in height on average. Weeds present included kochia, common lambsquarters, and wild buckwheat. Control of kochia resulting from application of Huskie FX at 2 WAT was greater when comparing rates of 18 oz/A with 15.5 oz/A. This difference was not seen at the 4 WAT evaluation. Kochia control with Huskie FX was greater than what was seen when compared with Widearmatch (fluroxypyr plus clopyralid plus halauxifen) plus MCPA, Talinor (bromoxynil plus bicyclopyrone), and Bison (bromoxynil plus MCAP). At 4 WAT, there were no differences in common lambsquarters control when comparing all treatments, with the exception of Talinor (79% control), and control ranged from 95-97%. At 4 WAT, wild buckwheat control was great when comparing Huskie FX applied at 18 oz/A with 15.5 oz/A. Control of wild buckwheat resulting from Widearmatch application (84%) was similar to the 18 oz/A rate of Huskie FX (86%). Wild buckwheat control was less with other herbicide treatments. No difference in wheat yield was observed due to herbicide treatment. Drought conditions occurred in late June through August in southwest North Dakota. This limited wheat yield and resulted in greater variability among treatments. Wheat yield in all herbicide treatments was numerically greater than that of the untreated control. Test weight in the control treatment was also less when compared with other herbicide treatments.

Table 1. Evaluation of Huskie FX and other herbicides for weed control in spring wheat at Hettinger, ND, 2024.

Treatment	Rate oz/A	Kochia		Lambsquarters		Wild buckwheat		Wheat	
		2 WAT	4 WAT	2 WAT	4 WAT	2 WAT	4 WAT	Yield Bu/A	Test wt LB/BU
		% control							
1 Non-Treated		0e	0d	0c	0c	0d	0e	30.8-	56.6b
2 Huskie FX	15.5	84b	84a	90a	95a	85ab	79b	37.3-	60.2a
3 Huskie FX	18	90a	87a	89a	97a	88a	86a	36.5-	58.5ab
4 Widearmatch MCPA Ester	14 8	80c	80b	80b	99a	82b	84ab	38.7-	58.4ab
5 Talinor	13.7	72d	79bc	88a	79b	72c	64d	36.0-	57.7ab
6 Bison	16	72d	76c	89a	97a	71c	71c	34.6-	59.1ab
LSD P=.05		2.4	3.3	3.0	3.1	3.7	5.4	7.02	2.52
Standard Deviation		1.5	2.2	1.9	1.9	2.3	3.4	4.66	1.58
CV		2.26	3.26	2.56	2.51	3.48	5.19	13.06	2.7
Treatment F		1938.251	911.893	1480.656	1574.124	816.868	368.541	1.392	4.307
Treatment Prob(F)		0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.2826	0.0281

Means followed by same letter or symbol do not significantly differ (P=.05, LSD).

Herbicide treatments were tank-mixed with adjuvants according to label guidelines.

Table 2. Application environment and equipment for postemergence application of herbicide treatments for weed control in spring wheat.

Application Description	Application equipment	
Date	Jun-7-2024	Equipment Type Tractor mounted
Start Time	8:02 AM	Operation Pressure 42 PSI
Stop Time	8:10 AM	Nozzle Model 11002DG
Air Temperature Start, Stop	65, 66 F	Nozzle Spacing 20 IN
% Relative Humidity Start, Stop	45.1, 42.7	Boom Length 100 IN
Wind Velocity+Dir. Start	5.4 MPH, SSE	Boom Height 20 IN
Wind Velocity+Dir. Stop	2.6 MPH, SSE	Ground Speed 4.2 MPH
Wind Velocity+Dir. Max	7.3 MPH, SSE	Carrier WATER
Wet Leaves (Y/N)	N, no	Application Amount 10 GAL/AC
Soil Temperature	46 F	Propellant CO2
% Cloud Cover	25	Tank Mix (Y/N) Yes