

Table 1. Comparison of standard herbicide treatments with Batalium Amped for weed control in spring wheat at Hettinger, ND, 2023.

Herbicide Treatment ^a	Rate oz/A	Kochia ^b			Green foxtail			Wheat yield bu/A
		10DAT	30DAT	65DAT	10DAT	30DAT	65DAT	
		percent control						
1 Untreated Check		0	0	0	0	0	0	91 -
2 Batalium Amped	16	86 ab	91 ab	86 a	79 a	91 ab	100 a	92 -
3 Batalium Amped H3384ae	16 0.4	88 a	87 abc	86 a	78 ab	95 a	97 a	90 -
4 Huskie Complete	13.7	85 abc	92 ab	87 a	76 bc	81 c	81 b	93 -
5 PerfectMatch	16	73 d	79 d	76 b	72 d	77 c	78 b	87 -
6 Rezuvant	16.4	76 d	85 bcd	81 ab	79 a	88 b	84 b	90 -
7 KFD-776-01	15.75	84 bc	84 cd	82 ab	78 ab	88 b	95 a	94 -
8 Huskie Complete H3384ae	13.7 0.4	86 abc	92 a	86 a	80 a	80 c	80 b	91 -
9 PerfectMatch H3384ae	16 0.4	83 c	91 ab	81 ab	76 c	80 c	80 b	88 -
LSD P=.05		3.09	6.3	6.85	2.46	6.24	6.34	4.82
Standard Deviation		2.13	4.24	4.61	1.69	4.27	4.36	3.25
CV		2.91	5.56	6.15	2.47	5.67	5.63	3.73
Treatment F		682.23	186.59	150.89	932.80	182.88	191.87	1.88
Treatment Prob(F)		0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.1263

^a Batalium Amped; bromoxynil plus fluroxypyr plus flucarbazone; H3384ae, tribenuron plus thifensulfuron; Huskie Complete, thiencazuron plus pyrasulfotole plus bromoxynil; Rezuvant, fluroxypyr plus pinoxaden plus halauxifen; KFD-776-01, flucarbazone; PerfectMatch, fluroxypyr plus clopyralid plus pyroxsulam. Treatments were applied postemergence to both wheat and weeds on June 5, 2023; wheat was in the early tillering phase; kochia was an average of 2 inches, green foxtail was an average of 3.2 inches at time of application..

^b Kochia and green foxtail were evaluated for control 10, 30, and 60 days after treatments were applied

Table 2. Description of herbicide application and equipment for treatments applied for weed control in spring wheat at Hettinger, ND, 2023.

Application Description		Application Equipment	
Date	6/5/2023	Sprayer Type	Tractor
Start Time	9:12 AM	Pressure	37 PSI
Stop Time	9:36 AM	Nozzle Model	DG11003
Air Temp	77 F	Nozzle Spacing	20 IN
Rel Humidity	59	Boom Length	100 IN
Wind Speed	4.5 MPH	Boom Height	28 IN
Soil Temp	65 F	Ground Speed	3 MPH
% Cloud Cover	0	Application Amount	15 GAL/AC
		Propellant	CO2

A trial was conducted near Hettinger, ND to evaluate Battalium Amped with other standard herbicide treatments for control of kochia and green foxtail in spring wheat. Spring wheat was planted using a no-till drill at a depth of 2 inches on May 1, 2023 and emerged on May 9. Soil was dry at time of application due to very little rainfall in April; in the two weeks after planting there was over 5 inches of rainfall. Herbicide treatments were applied when wheat was in the early tillering phase and when kochia was averaging 2 inches in height and green foxtail averaged 3.2 inches in height. Batalium Amped provided good to excellent control of kochia and green foxtail and performed as well or better than the other standard treatments. Yield of spring wheat was much higher than normal during 2023 due to the above normal rainfall. Wheat yield ranged from 87 to 94 bu/A and there were no statistical differences in wheat yield due to herbicide treatment, even when no herbicide was applied. The lack of rainfall in April delayed the emergence of both kochia and green foxtail and allowed the spring wheat to gain a competitive advantage and the above average rainfall allowed the wheat to keep that advantage.