

Table 5. Flax response to preemergence herbicide treatments at Hettinger, ND 2022.

Treatment	Rate oz/A	Injury		Stand 21 DAE # m ⁻²	Height 36 DAE cm	Yield LB/A
		16 DAE	21 DAE			
		%				
Untreated		0 c	0 d	172 -	55 bc	1487 cd
Pyroxysulfone+ Carfentrazone	2.5+ 0.5	1.3 bc	2 cd	160 -	55 abc	1670 ab
Pyroxysulfone+ Carfentrazone	4.9+ 0.5	1.8 bc	8.8 ab	160 -	54 cd	1520 cd
Pyroxysulfone+ Carfentrazone	7.5+ 0.5	17.5 a	15.3 a	145 -	53 d	1557 bcd
Sulfentrazone+ Carfentrazone+ Pyroxysulfone	5+ 2.5	3.3 b	6.3 b	157 -	54 cd	1758 a
Sulfentrazone+ Carfentrazone+ Pyroxysulfone	10+ 4.9	13 a	15 a	151 -	54 cd	1611 bc
Metolachlor	24	1.3 bc	9 ab	144 -	57 a	1471 cd
Metolachlor	32	1.3 bc	5.3 b	162 -	56 ab	1484 cd
Sulfentrazone+ Carfentrazone+ Metolachlor	5+ 24	0.8 bc	5 bc	159 -	56 abc	1535 bcd
Sulfentrazone+ Carfentrazone+ Metolachlor	10+ 32	4 b	8 ab	151 -	54 cd	1574 bcd
Pendimethalin	48	0 c	6.8 b	164 -	57 ab	1429 d
LSD P=.10		3.81	6.63	NS	2.07	146.8
CV		79.4	74.76	14.25	3.15	7.87
Treatment Prob(F)		0.0001	0.0119	0.8206	0.0071	0.0276

*Abbreviations: DAE, days after emergence, # m⁻², pounds per square meter

Application Description	Application Equipment
Application Date	5/17/2022
Appl. Start Time	2:56 PM
Appl. Stop Time	3:29 PM
Application Method	SPRAY
Application Timing	PREPRE
Application Placement	BROADC
Applied By	CDC
Air Temperature Start, Stop	75.3, 75.3 F
% Relative Humidity Start, Stop	43.1, 38.7
Wind Velocity+Dir. Start	4.9 MPH, NW
Wind Velocity+Dir. Stop	7.2 MPH, NNW
Wind Velocity+Dir. Max	7.3 MPH, NW
Wet Leaves (Y/N)	N, no
Soil Temperature	60.5 F
Soil Moisture	GOOD
% Cloud Cover	95
Next Moisture Occurred On	5/19/2022
Moisture 1 Week after Appl.	0.49 IN

*Abbreviations: PREPRE, preemergence; BROADC, broadcast; SPTRMO, tractor mounted sprayer; DRIRED, drift reduction