

Table 4. Fall application timing of pyroxasulfone for weed control in dry peas at Hettinger, ND 2021-22.

Treatment	Rate oz/A	Timing	Kochia %	C mallow %	Stand # m ⁻²	Height cm	Yield LB/A
Untreated			0 d	0 e	57 -	46 -	2953 c
Pyroxasulfone	2	A	78 c	74 d	52 -	48 -	3680 ab
Pyroxasulfone	2.25	A	81 c	78 cd	56 -	44 -	3435 b
Pyroxasulfone	2.5	A	84 bc	79 cd	58 -	45 -	3541 b
Pyroxasulfone	2	B	93 a	87 ab	56 -	45 -	3810 ab
Pyroxasulfone	2.25	B	91 a	83 bc	59 -	47 -	3604 ab
Pyroxasulfone	2.5	B	90 ab	85 b	55 -	46 -	3651 ab
Pyroxasulfone	2	C	94 a	89 ab	52 -	45 -	3609 ab
Pyroxasulfone	2.25	C	95 a	92 a	55 -	46 -	4007 a
Pyroxasulfone	2.5	C	97 a	91 a	54 -	42 -	3655 ab
LSD P=.10			6.96	5.77	6.88	3.088	435.5
CV			7.21	6.33	10.35	5.66	10.06
Treatment Prob(F)			0.0001	0.0001	0.6557	0.214	0.0473

*Treatment timing were 10/18/2021, 11/3/2021, and 11/15/2021

Abbreviations: C mallow, common mallow; # m⁻², number of plants per square meter; LB/A, pounds per acre.

Application Description	Timing			Application Equipment	
	A	B	C		
Application Date	10/18/2021	11/3/2021	11/15/2021	Equipment Type	SPTRMO
Appl. Start Time	2:50 PM	2:10 PM	2:13 PM	Operation Pressure	40 PSI
Application Method	SPRAY	SRPAY	SPRAY	Nozzle Type	FLAFAN
Application Timing	FALPRE	FALPRE	FALPRE	Nozzle Tip Size	11002
Application Placement	BROADC	BROADC	BROADC	Nozzle Spacing	20 IN
Applied By	CDD	CDD	CDD	Boom Length	100 IN
Appl. Entry Date	10/21/2021	11/16/2021	11/16/2021	Boom Height	19 IN
Air Temp Start, Stop	74.9, 76.9 F	62.9, 63.2 F	62.9, 62.3 F	Ground Speed	3.9 MPH
% RH Start, Stop	23.9, 23.3	39.7, 40.4	41.2, 40.3	Carrier	WATER
Wind Velocity+Dir. Start	2.1 MPH, WNW	5.8 MPH, WNW	4 MPH, WSW	Application Amount	10 GAL/AC
Wind Velocity+Dir. Stop	1 MPH, WNW	2.7 MPH, SW	3.8 MPH, WSW	Mix Size	2 L
Wind Velocity+Dir. Max	2.4 MPH, WNW	5.9 MPH, SW	6.5 MPH, WSW	Propellant	CO2
Wet Leaves (Y/N)	N, no	N, no	N, no	Tank Mix (Y/N)	Yes
Soil Temperature	40 F	33 F	41 F		
Soil Moisture	GOOD	DRY	GOOD		
% Cloud Cover	10	0	30		
Next Moisture	10/24/2021	11/10/2021	12/2/2021		
Time to Next Moisture	6.0 D	7.0 D	17.0 D		
Moisture 6 Hours after	0 IN	0 IN	0 IN		
Moisture 1 Week after	0.11 IN	0.01 IN	0 IN		

*Abbreviations: FALPREPRE, fall preemergence; BROADC, broadcast; SPTRMO, tractor mounted sprayer.