

Table 9. Tame oat response to preemergence and early postemergence applied herbicides applied at 1x and 2x rates at Hettinger, ND 2022.

Treatment	Rate oz/A	Timing	Injury			Height		Yield LB/A
			14 DAE	24 DAE	42 DAE	40 DAE		
			%			cm		
Untreated			0 f	0 i	0 g	68	a	1525 a-d
Dual II Magnum	26.8	PRE	0 f	0 i	0 g	66	a-d	1683 a
Dual II Magnum	53.6	PRE	0 f	15 ef	5 ef	66	a-d	1365 cd
Prowl	48	PRE	0 f	1 hi	0 g	67	abc	1480 a-d
Prowl	96	PRE	0 f	12 ef	3 efg	65	bcd	1603 abc
Zidua	3	EPOST	3 e	74 b	61 b	55	e	878 e
Zidua	6	EPOST	7 d	85 a	73 a	52	f	411 f
Dual II Magnum	26.8	EPOST	0 f	3 hi	0 g	68	a	1633 ab
Dual II Magnum	53.6	EPOST	0 f	16 e	6 e	65	cd	1529 a-d
Prowl	48	EPOST	0 f	6 gh	1 fg	68	a	1609 ab
Prowl	96	EPOST	0 f	10 fg	4 efg	67	abc	1416 bcd
Outlook	18	EPOST	0 f	24 d	12 d	64	d	1622 ab
Outlook	36	EPOST	0 f	63 c	48 c	57	e	1303 d
Armezon	1	EPOST	10 c	7 gh	3 efg	67	abc	1424 bcd
Armezon	2	EPOST	14 a	4 hi	1 fg	67	a-d	1516 a-d
Laudis	3	EPOST	4 e	4 hi	0 g	68	ab	1642 ab
Laudis	6	EPOST	12 b	5 ghi	0 g	66	a-d	1587 abc
LSD P=.10			2.1	5.68	4.568	2.69		240.8
CV			60.15	24.94	30.25	3.52		14.25
Treatment Prob(F)			0.0001	0.0001	0.0001	0.0001		0.0001

\*Application timings were PRE, at planting, and EPOST, postemergence to 1-2 leaf oats

\*\*Abbreviations: PRE, preemergence, EPOST, early postemergence, DAE, days after emergence; LB/A, pounds per acre

Application Description	Application Equipment			
	PRE	EPOST		
Application Date	5/23/2022	6/3/2022	Equipment Type	SPTRMO
Appl. Start Time	10:00 AM	9:55 AM	Operation Pressure	35 PSI
Appl. Stop Time	10:30 AM	10:31 AM	Nozzle Model	11002
Application Method	SPRAY	SPRAY	Nozzle Type	DRINED
Application Timing	PRE	EAPOCR	Nozzle Tip Size	11002
Application Placement	BROADCAST	BROADCAST	Nozzle Spacing	20 IN
Appl. Entry Date	6/15/2022	6/15/2022	% Coverage	100
Air Temp Start, Stop	53, 55 F	66, 67 F	Boom Length	100 IN
% RH Start, Stop	54, 52	27, 29	Boom Height	20 IN
Wind Velocity+Dir. Start	3 MPH, E	9.5 MPH, NNE	Ground Speed	3.3 MPH
Wind Velocity+Dir. Stop	1.8 MPH, ESE	9 MPH, NNE	Carrier	WATER
Wind Velocity+Dir. Max	9.8 MPH, E	16 MPH, NNE	Application Amount	10 GAL/AC
Wet Leaves (Y/N)	N, no	N, no	Mix Size	2 L
Soil Temperature	51 F	54 F	Propellant	CO2
Soil Moisture	SLIWET	SLIWET	Tank Mix (Y/N)	No
% Cloud Cover	25	25		
Next Moisture Occurred On	5/23/2022	6/5/2022		
Time to Next Moisture	7 Hours	2 Days		
Moisture 1 Week after Appl.	0.83 IN	1.79 IN		

\*Abbreviations: PRE, preemergence; EAPOCR, early postemergence to crop; BROADCAST, broadcast; SPTRMO, tractor mounted sprayer; DRINED, drift reduction.