

Reprinted with permission from: GPC-14 Annual Report: Leafy Spurge Control in the Great Plains 1982. pp. 4-5.

Published by: Great Plains Agricultural Council.

Control of leafy spurge on rangeland

B. D. MAXWELL and P. K. FAY

A screening trial was established near Whitehall, Montana to evaluate efficacy of herbicides for leafy spurge control. Herbicides were applied May 11, 1982. The leafy spurge plants were in pre-bloom stage. The herbicides were applied with a backpack sprayer using 13 gpa at 30 psi. Treatments were replicated three times in a randomized complete block. Control was evaluated using visual ratings for leafy spurge control and grass injury.

Trt. No.	Herbicide	Form	Rate/A	Treatment	
				Rated on 6-1-82	
				% Spurge Control	% Grass Injury
1	DPX T6376*	70 DF	.5 oz	7.7	34.0
2	DPX T6376*	70 DF	1 oz	3.0	19.3
3	DPX T6376*	70 DF	2 oz	35.7	19.3
4	DPX T6376*	70 DF	4 oz	14.0	31.0
5	Banvel	4 DMA	4 lb	72.3	26.3
6	Banvel	4 DMA	5 lb	92.3	8.0
7	Banvel	4 DMA	6 lb	94.0	11.7
8	Tordon	2 EC	.5 lb	84.3	16.7
9	Tordon	2 EC	1 lb	91.0	9.0
10	Tordon	2 EC	1.5 lb	91.7	13.0
11	Tordon	2 EC	2 lb	91.3	10.3
12	HOE 00661	1.7 EC	1 lb	93.0	62.0
13	Check		---	.0	.0
			C.V. -	29.89	81.75
			LSD 50% -	29.85	27.62

Most of the herbicides showed immediate effects on the leafy spurge. Grass injury was evident for all treatments except Banvel at the 5 lbs/A rate and Tordon at the 1 lb rate.

Visual ratings were taken for leafy spurge control on September 1, 1982. Grass injury could not be evaluated due to grazing over the summer.

After one growing season DPX T6376 has no activity on leafy spurge. HOE 00661 provided good burndown but severely injured the grasses. Banvel is not as effective as Tordon at the rates tested.

Treatment				Rated on 9-1-82
Trt. No.	Herbicide	Form	Rate/A	% Spurge Control
1	DPX T6376*	70 DF	.5 oz	1.7
2	DPX T6376*	70 DF	1 oz	.0
3	DPX T6376*	70 DF	2 oz	5.0
4	DPX T6376*	70 DF	4 oz	10.0
5	Banvel	4 DMA	4 lb	51.7
6	Banvel	4 DMA	5 lb	66.7
7	Banvel	4 DMA	6 lb	82.7
8	Tordon	2 EC	.5 lb	86.7
9	Tordon	2 EC	1 lb	99.7
10	Tordon	2 EC	1.5 lb	100.0
11	Tordon	2 EC	2 lb	99.7
12	HOE 00661	1.7 EC	1 lb	20.7
	Check		---	.0
			C.V. -	15.37
			LSD 5% -	12.44