

Screening trial of herbicides for leafy spurge control

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Screening trials were established in Livingston and Judith Gap, Montana to evaluate efficacy of herbicides for leafy spurge control. Herbicides were applied May 28, 1981 except for Krenite which was applied July 28, 1981. The leafy spurge plants were in early bloom in late May and past seed set in late July. Herbicides were applied with a backpack sprayer using 19 gpa at 30 psi. Treatments were replicated three times in a randomized complete block. Control was evaluated using visual ratings.

Herbicide	Rate LB/A	% Top growth Control 8-12-81	
		Judith Gap	Livingston
Krenite	2	5.0	.7
Krenite + Phyto Oil	4	2.0	11.7
Krenite	4	5.0	15.0
Krenite	6	5.0	11.7
R40244	1/2	8.3	30.0
R40244	1	4.7	25.0
R40244	2	11.7	50.0
Tackle	1/2	11.7	25.0
Tackle	1	8.3	56.7
Tackle	2	10.0	31.7
Mefluidide + Bentazon	1/8+1/2	5.0	10.0
Mefluidide + Bentazon	1/4+1	4.0	8.3
Mefluidide + Bentazon	1/2+2	14.7	45.0
Check		.0	.0
LSD (.05)		11.19	28.4

None of the herbicides tested provided acceptable control of leafy spurge. R40244 gave 50% control in Livingston at 2 lbs/A but only 12% control in Judith Gap. Tackle at 1 lb/A gave 57% control in Livingston but only 8% in Judith Gap. The plots will be evaluated in 1982.