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Leafy spurge shoot control with 2% and 10% picloram pellets

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This experiment was established to evaluate several picloram formulations for control of leafy spurge and was conducted at Afton and Lander, Wyoming.

The Lander plots were established June 1, 1984 on a dense stand of leafy spurge. Leafy spurge at treatment was in the seedling to full bloom stage-of-growth, 2 to 18 inches in height. The Afton plots were established August 8, 1984 on a dense stand of leafy spurge. Leafy spurge was in the prebud stage-of-growth and 6 to 8 inches in height. The granular formulations were applied with a centrifugal applicator. Plots at both sites were 9 by 30 feet. The Lander study consisted of two replications and the Afton study consisted of three replications. The soil at Lander was a sandy clay loam (54% sand, 29% silt, and 17% clay) with 1.9% organic matter and 8.0 pH, and the soil at Afton was a silt loam (22% sand, 54% silt, and 24% clay) with 3.7% organic matter and 6.2 pH.

Shoot counts were taken May 2, 1985 at Lander and a visual estimate of shoot control was taken July 11, 1985 at Afton. Percent shoot control with each treatment was similar between the two sites. However, the picloram 2% pellets gave better shoot control than the 10% pellets at both sites, for all rates. The reduced leafy spurge shoot control with the 10% pellets suggests this material is not providing as uniform distribution as the 2% pellets.

Leafy spurge shoot control.

Treatment	Rate lb ai/A	Percent shoot control ²	
		Lander	Afton
picloram 2K	0.5	62	60
picloram 2K	1.0	84	90
picloram 2K	2.0	100	93
picloram 10K	0.5	39	50
picloram 10K	1.0	73	73
picloram 10K	2.0	80	88
Check	---	0	0

¹Treatments applied June 1, 1984 - Lander and August 28, 1984 - Afton.

²Shoot counts May 2, 1985 - Lander and visual shoot control evaluation July 11, 1985 - Afton.