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## Ropewick applicators with picloram in combination with chlorflurenol for leafy spurge control

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Experiments at two locations were used to evaluate the ropewick applicators as an approach for leafy spurge control with herbicides. One pasture was located southwest of Lincoln, Nebraska and the other near Plainview, Nebraska. The treatments were applied on May 19 and 21, 1981, respectively, when leafy spurge was in the early bud stage. The experiments were in a randomized complete block design with four replications at Lincoln and three replications at Plainview.

Two types of ropewick applicators were used in the experiments, the pipewick and the Bobar. The pipewick consists of a series of 'peppermint' (manufactured by Gulf Rope and Cordage Co.), 1/2 inch diameter, solid braid nylon rope that is placed in polyvinyl chloride pipe. The Bobar, which is manufactured by the Broyhill Co., has numerous closely spaced diagonal ropes that are mounted on a rectangular steel frame. Both ropewicks transfer the herbicide from their reservoir onto the leafy spurge by wicking action. All treatments were one pass coverage except for the pipewick which was one and two pass coverage. Broadcast applications were applied with a tractor mounted compressed air powered sprayer calibrated to deliver 20 gpa.

Stand counts were taken prior to treatment in May of 1981 and again in May of 1982. Control is expressed as the change from the original stand counts. Control was increased when two passes were used with the pipewick. The chlorflurenol and picloram solution increased leafy spurge control compared to picloram alone.

**Table 1. Leafy spurge control with ropewick applicators near Lincoln and Plainview, Nebraska. (Regimbal and Martin).**

Type of Application	Treatment	Rate of Solution	% Control	
			Lincoln	Plainview
Pipewick 1X <sup>a</sup>	Picloram	10% <sup>c</sup>	-12 <sup>c</sup>	25
Pipewick 2X <sup>b</sup>	Picloram	10%	-14	29
Bobar 1X	Picloram	10%	10	42
Sprayer	Picloram	1 lb/A	43	80
Pipewick 1X	Picloram + Chlorflurenol	10% + 10% <sup>d</sup>	21	9
Pipewick 2X	Picloram + Chlorflurenol	10% + 10%	30	43
Bobar 1X	Picloram + Chlorflurenol	10% + 10%	28	47
Untreated check			0	0

<sup>a</sup>One pass coverage.

<sup>b</sup>Two pass coverage.

<sup>c</sup>Dow Chemical formulation Tordon 22K.

<sup>d</sup>E.M. Industries, Inc.

<sup>e</sup>Negative numbers refer to increase in stand.