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Picloram in combination with growth regulators for control of leafy spurge

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Two experiments were conducted to evaluate growth regulators in combination with picloram for leafy spurge control. Both experiments were done on a pasture located southwest of Lincoln, Nebraska. The treatments were applied on May 14 and 15, 1981 when the leafy spurge was in the early bud stage. The experiment was set up as a randomized complete block design with four replications. Treatments were applied with a tractor-mounted compressed-air-powered sprayer calibrated to deliver 20 gpa. Visual evaluations were made on September 10, 1981 and the results are presented in the tables. Addition of chlorflurenol to picloram tended to improve leafy spurge control. (Agronomy Dept., University of Nebraska-Lincoln)

Table 1. Leafy spurge control with picloram in combination with growth regulators, Lincoln, Nebraska in 1981. (Regimbal and Martin)

Treatment	Rate (lb/A)	% Control
Picloram	1/4	31
Chlorflurenol	1/2	31
Picloram + Chlorflurenol (tank mix)	1/4 + 1/2	61
Picloram + Chlorflurenol (one day later)	1/4 + 1/2	29
Chlorflurenol + Picloram (one day later)	1/2 + 1/4	32
Mefluidide	1/4	35
Picloram + Mefluidide (tank mix)	1/4 + 1/4	35
Picloram + Mefluidide (one day later)	1/4 + 1/4	40
Mefluidide + Picloram (one day later)	1/4 + 1/4	39
Untreated check		0

Table 2. Leafy spurge control with picloram in combination with chlorflurenol, Lincoln, Nebraska. (Regimbal and Martin)

Treatment	Rate (lb/A)	% Control
Picloram	1	49
Picloram + Chlorflurenol	1 + 1/4	64
Picloram + Chlorflurenol	1 + 1/2	76
Picloram	1/4	33
Picloram + Chlorflurenol	1/4 + 1/4	49
Picloram + Chlorflurenol	1/4 + 1/2	54
Picloram	1/8	29
Picloram + Chlorflurenol	1/8 + 1/4	24
Picloram + Chlorflurenol	1/8 + 1/2	40
Chlorflurenol	1/2	28
Chlorflurenol	1/4	38
Untreated check		0