

Leafy Spurge Control in Rangeland with Huskie South of Rushville, Nebraska.

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A field study was conducted south of Rushville, NE to compare the performance of postemergence applications of Huskie for leafy spurge control in rangeland. The experimental design was a randomized complete block with four replications; plot size was 7 feet wide by 30 feet long. Herbicides were applied on June 6, 2008, when leafy spurge was flowering. Herbicides were applied with backpack sprayer calibrated to deliver 20 gallons of spray solution per acre at 36-psi pressure using Spraying Systems 11002 VS nozzles. Air temperature was 85 F, wind was from the south at 10 mph, and treatments were applied from 10 to 11 a.m.

Leafy spurge stand was fairly uniform across all plots. Leafy spurge control when Huskie was the sole herbicide was not effective at either .22 or .25 lb/acre (Table 1). The best leafy spurge control was obtained with the combination of Tordon 22K and 2, 4 -D ester. The addition of Huskie to Tordon did not improved leafy spurge control. No grass injury was observed in any of the treatments. Leafy spurge control will be evaluated during the spring of 2009.

Table 1. Leafy Spurge Control in Rangeland with Huskie south of Rushville, NE.

Treatment ¹	Rate lb/acre	Time of application ²	Visual evaluations of leafy spurge control ³	
			7/10	9/3
			----- (%) -----	
Nontreated	—	—	0	0
Huskie + X77 + AMS	0.225	Flowering	11	0
Huskie + Tordon 22K + X77 + AMS	0.225 + 0.373	Flowering	95	67
Huskie + 2,4-D ester + X77 + AMS	0.225 + 0.712	Flowering	97	61
Huskie + X77 + AMS	0.25	Flowering	21	15
Huskie + Tordon 22K + X77 + AMS	0.25 + 0.373	Flowering	94	81
Tordon 22K + 2,4-D ester	0.373 + 0.952	Flowering	98	91
LSD (P=.05)	—	—	11.2	12.4

¹ Spray additives were combined with the spray solution at the following rates: surfactant X77 at 0.5% and ammonium sulfate (AMS) at 0.5%.

² All herbicides were applied at the flowering growth stage on June 10.

³ Visual injury evaluated on a scale from 0 to 100 with 0 equal to no injury and 100 equal to death of the plant.