

TALL IRONWEED CONTROL IN COOL SEASON GRASS PASTURES. Daisy M. Fryman* and William W. Witt, University of Kentucky, Lexington, KY 40506-0198.

Four field studies were conducted in summers of 2006 and 2007 to evaluate the response of tall ironweed (*Vernonia altissima*) to pasture herbicides using three distinct application methods. The applications methods were broadcast foliar spray, rope-wick selective, and herbicide impregnated on dry fertilizer. The four studies were evaluated for control from 90 days to 1 year after treatment. All herbicide rates are expressed as g ae/ha or kg ae/ha. The first study conducted in 2006 consisted of a broadcast foliar spray of Milestone at 4 and 5 oz/acre (aminopyralid at 70 and 87.5 g /ha, respectively); Forefront R&P at 1, 1.5, 2, 3 pt/acre (aminopyralid + 2,4-D at 46.2 g +0.38 kg, 69.3 g + 0.6 kg, 92.4 g + 0.8 kg, and 138.6 g + 1.1 kg, respectively), 2, 4-D amine (1.1 kg /ha) and 2, 4-D ester (1.1 kg /ha), and Weedmaster (dicamba at 0.3 kg /ha + 2, 4-D at 0.8 kg /ha) at 2 pt/acre, and Banvel (dicamba at 0.6 kg. /ha) at 1 pt/acre. This study was a randomized complete block design, with four replications, and applied at 20 gpa. Tall ironweed control ranged from 84 to 89% with Milestone and Forefront R&P. 2, 4-D amine, 2, 4-D ester, Weedmaster, and Banvel provided 66 to 75% control. A second study conducted in 2006 evaluated Milestone, Forefront R & P, and Grazon P + D either as a foliar broadcast foliar spray or impregnated on a complete dry fertilizer. The study was randomized complete block design, with four replications. Foliar broadcast applications were applied at 20 gpa and herbicide/fertilizer treatments were broadcast at 155 lb dry fertilizer per acre. The foliar broadcast treatments were Milestone at 5 oz/acre (aminopyralid at 87.5 g/ha) , Forefront R&P at 2 pt/acre (aminopyralid at 92.4 g /ha + 2, 4-D at 0.8 kg /ha) , and Grazon P + D at 2 pt/acre(picloram at 0.2 kg/ha + 2, 4-D at 0.6 kg /ha). The broadcast treatments provided from 87 to 93% and the control from impregnated fertilizer treatments ranged from 53 to 56%. Another study conducted in 2007 consisted of one broadcast treatment and six rope-wick selective application treatments. This study compared Forefront R&P at 2 pt/acre (aminopyralid at 92.4 g/ha + 2, 4-D at 0.8 kg/ha) as a foliar spray with Milestone at 1, 10 and 20% v/v, Roundup WeatherMax at 50% v/v, Remedy Ultra at 20% v/v, and Stinger at 20% v/v. Design of this study was randomize complete block with four replications. Foliar broadcast treatments were applied at 20 gpa, and rope-wick selective treatment was allowed to saturate ropes and then driven at 2.0 mph over plots. Control provided with the foliar broadcast treatment of Forefront R&P 95% and Milestone ranged from 92 to 97%. Control with Roundup WeatherMax, Remedy Ultra, and Stinger was 91%, 86%, and 88%, respectively. Another study in 2007 was an additional rope-wick selective and foliar broadcast combination study that used the same treatments and methods as the previous study with additional foliar broadcast applications of Milestone at 3, 4, 5 oz/acre (aminopyralid at 52.5, 70 and 87.5 g/ha) , PastureGard at 2.5 pt/acre (triclopyr at 0.5 kg /ha + fluroxpyr at 0.2 kg/ha), and Crossbow at 2 qt/acre (2, 4-D at 1.1 kg /ha + triclopyr at 0.6 kg /ha). Control of Tall Ironweed in this study ranged from 83-86% for Milestone foliar broadcast treatments and 88 to 96% for Milestone rope-wick selective treatments. Forefront R&P, PastureGard and Crossbow foliar broadcast treatment, respectively, had controls of 94, 93, and 96%. Roundup Weather Max had a control of 95%. Control with Remedy Ultra and Stinger rope-wick selective treatment was 89%.