

NEW RANGELAND AND PASTURE HERBICIDE PRODUCT CONCEPTS. Robert A. Masters and Jeffery A. Nelson, Dow AgroSciences, LLC, Indianapolis, IN 46268

Woody and herbaceous weeds often reduce rangeland and pasture productivity and quality. Herbicides are effective components of integrated strategies to manipulate rangeland and pasture plant community succession to meet land management objectives. The Environmental Protection Agency is currently reviewing registration of the herbicide, fluroxypyr, for use in combination with triclopyr or picloram to manage rangeland and pasture weeds. Research has been conducted in the United States since 2000 to determine the efficacy of two formulated products, fluroxypyr (60 g ae/L) + triclopyr (180 g ae/L) and fluroxypyr (80 g ae/L) + picloram (80 g ae/L) against selected woody and herbaceous weeds. These two herbicide products provided control of weeds including honey locust, black locust, prickly pear, prickly ash, wax myrtle, osage orange, multiflora rose, blackberry, elm, Chinese tallowtree, ironweed, goldenrod, and sericea lespedeza that was comparable or superior to commercial herbicide standards. The desired level of control was usually achieved with less active ingredient applied compared to the commercial standards.