

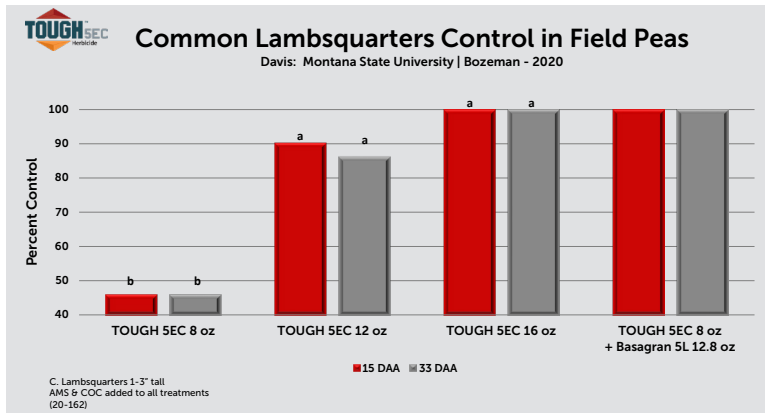
# Technical Bulletin



## Effectiveness of TOUGH 5EC on Various Broadleaf Weeds - Montana State University 2020

### Overview

In an effort to evaluate the effectiveness of TOUGH® 5EC (pyridate) postemergent herbicide to control problem weeds in field peas\* in the Great Plains, a study was conducted in 2020 by Dr. Edward Davis- Agricultural Specialist Cropland Weed Research- at Montana State University. Common Lambsquarters, Kochia and Russian Thistle were among the weeds evaluated in the study.

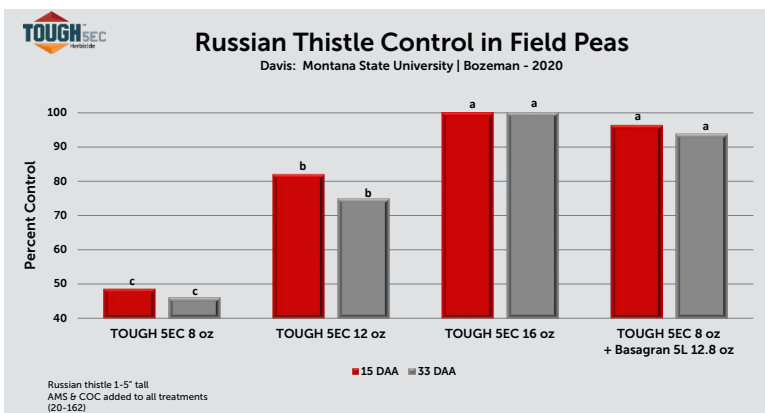
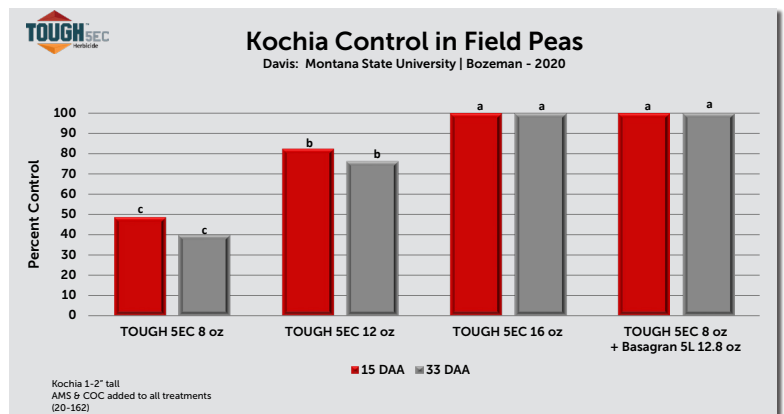


### Methods

Plots were treated with various rates of TOUGH® 5EC - 8, 12, and 16 oz/acre. In addition, an 8 oz rate of TOUGH® 5EC was mixed with 12.8 oz of Basagran. All treatments included AMS and COC. At time of application; Common Lambsquarters was 1-3" tall, Kochia was 1-2 " tall and Russian Thistle was 1-5 " tall

### Results

In all plots, TOUGH® 5EC did not control these weeds when used at the 8 oz rate alone. The 12 oz rate of TOUGH® 5EC provided >80% control of all three weeds. The 16 oz rate of TOUGH® 5EC alone or the 8 oz rate combined with Basagran provided complete control of Common Lambsquarters and Kochia. The 16 oz rate of TOUGH® 5EC alone, or 8oz in combination with Basagran, provided greater than 95% control of Russian thistle.



*This study reveals that TOUGH® 5EC is an effective herbicide, at reduced rates and in combination with Basagran, for post emergence broadleaf weed control.*

\* TOUGH 5EC is NOT registered for use on field peas. Studies are underway on various crops for further label expansion.