



# ORO-RZ Improves Efficacy of Pre-emergent Broadleaf Herbicides

**TARGET:** Broadleaf weeds

**CROP:** Research plot

**TRIAL DATE:** June – July 2018

**RESEARCHER:** Eurofins Agrosience Services

**LOCATION:** Sanger, CA, USA

## TRIAL GOAL

To determine if the broadleaf weed control of three widely-used pre-emergent herbicides is improved when tank-mixed with ORO®-RZ soil adjuvant.

## KEY FINDINGS

ORO-RZ improved the efficacy of Prowl H2O, Treflan 4D and Alion against a variety of broadleaf weeds.

## APPLICATION

Prior to the start of this pre-emergent herbicide trial the species of broadleaf weeds present in the test plots was not known to the researcher. To ensure a relevant trial Palmer amaranth and kochia were seeded in the plots prior to the start of the trial. During the trial seven weed species emerged in sufficient numbers to be evaluated: Palmer amaranth, kochia, prostate pigweed, redroot pigweed, puncturevine, carpetweed and yellow nutsedge.

## APPLICATION CONTINUED

Three widely-used pre-emergent herbicides were used in the trial at standard labeled rates. They were applied both alone and tank-mixed with ORO-RZ. Applications of the herbicide treatments were done in a single pass using a hand-held boom with 6 nozzles applying approximately 21 g/A. The treatments were replicated three times. The treatments were incorporated using overhead irrigation immediately after application.

## RESULTS

Weed control ratings were taken 35 days after application. Adding ORO-RZ at 1 pt/A increased the percent control for all three of the pre-emergent herbicides.

