DAKOTA REV™
Growing Stronger. Naturally.

Research

Better Results with Less Fertilizer

A university test used REV as a fertilizer additive to see the effect on growth of established ryegrass. All plots received a treatment equal to 0.5 pounds of N per month of an 18-6-13 fertilizer with varying amounts of REV as an additive. The results after one week are shown below.

Seven days after treatment, the REV plots were denser, stronger, and healthier.

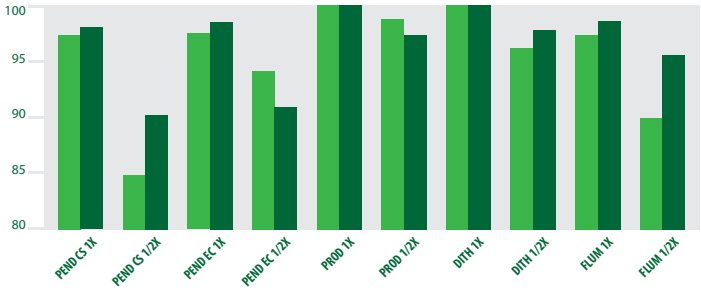
Even more impressive results were seen 16 hours after clipping. The REV plots kept fertilizer available to the plant, whereas the untreated plots are in need of another fertilizer application.

Sixteen hours after clipping, REV plots continued to have fertilizer available.

REV Improved Pre-Emergent Herbicide Efficacy

This two-year study looked at the effect of adding REV to five pre-emergent herbicide tank mixes to determine if the addition of a humic acid would decrease herbicide efficacy. Pendulum 3.8CS, Pendulum 3.3EC, Barricade 65WG (Prodiamine PROD), Dimension (Dithiopyr DITH), and BroadStar (Flumioxazin FLUM) were used at 1X and 1/2X the labeled rates, with and without REV.

This chart shows that the addition of REV did not antagonize herbicide efficacy when tank mixed with the five herbicides used in this study.



REV is shown in dark green

REV Improves Edible Cranberry Bean Yield

In 2013, 160 acres of edible cranberry beans were planted with differing rates of REV. The treatments were:

- 1 quart of REV/acre mixed with 2.75 gallons of 6-24-6 fertilizer/acre was applied in-furrow at seeding
- 1 gallon of REV/acre in-furrow application at seeding
- Untreated control (CK).

All plots were managed the same. To obtain samples, equal length rows of each treatment were selected. From the middle of each row, twelve consecutive plants were harvested and weighed to the nearest 0.1kg. The dry bean yield increased by 24.4% from REV application compared to the untreated control. The yield was 11.7% higher in REV treatment compared to REV+Fertilizer.

Beans treated with REV

REV Improves Fertilizer Applications

In this study, REV was tested in tank mixes with three different forms of nitrogen, NH3, N03, and Urea. As seen in the photos, the addition of REV to liquid nitrogen fertilizer enhanced and maintained turf color and showed less initial surge in clipping yield.

Darker areas in the field show REV's color enhancing ability.

Shows improved turf density and health.

REV Most Effective in Remediation After Oil-Based Spills

This study compared the effectiveness of using detergent, nitrate nutrient, activated charcoal and REV to enhance bioremediation and turf recovery after petroleum-based spills on perennial ryegrass. The turfgrass quality and reestablishment of the ryegrass reseeded at 0, 1 and 2 weeks were evaluated. The results showed that using REV immediately to remediate soil and reseed after a gasoline spill produced turfgrass with increased visual density and quality over all other treatments tested.

Untreated control (left) and re-established perennial ryegrass with application of Rev (right).

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