

# Transit Soil® + Zicron® Soil

## Increasing Alfalfa Yield & Relative Feed Value

**Dr. Bryan Hopkins** Magic Valley, Idaho



### RESEARCH SUMMARY

Conducted in 2011, this independent trial measures the impact **Transit Soil®** and **Zicron® Soil** can have on alfalfa as it relates to yield, nutritional quality, relative feed value and protein.

In 2011, Dr. Bryan Hopkins conducted a trial in the Magic Valley of Idaho to evaluate **Transit Soil** and **Zicron Soil** on alfalfa grown on a commercial farm. The trial was randomized, replicated complete block design with 5 replicates. The results below show **Transit Soil** and **Zicron Soil** greatly improved yield and quality.

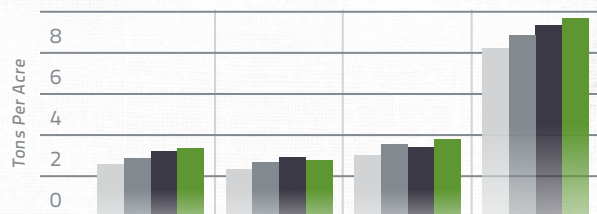
In the first treatment, **Transit Soil** was applied at **12 ounces/acre** after the first cutting. Then in the second treatment, **Transit Soil** was applied after both the first and second cuttings. The third treatment included **Transit Soil** after the first and second cuttings as well as **Zicron Soil** at **2 quarts/acre** after the second cutting.

### RESULTS

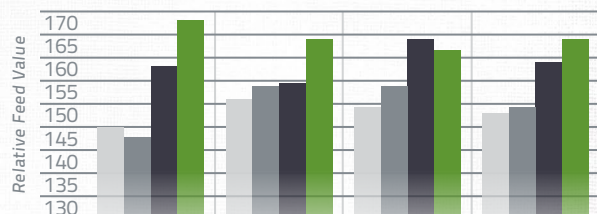
- » **19% Yield Increase (+1.5 tons/acre)**
- » **10% Increase in Relative Feed Value (RFV)**
- » **28% Higher Phosphorus Tissue Response**  
Phosphorus has essential biochemical roles in alfalfa, both yield and quality are reduced when this nutrient is deficient. Nitrogen fixation is also suppressed when Phosphorus supplies are limited.
- » Despite the significant yield increase, alfalfa protein was equal or greater than control for all treatments.

#### ALFALFA RESPONSE **Transit Soil** with **Zicron Soil** Magic Valley, Idaho

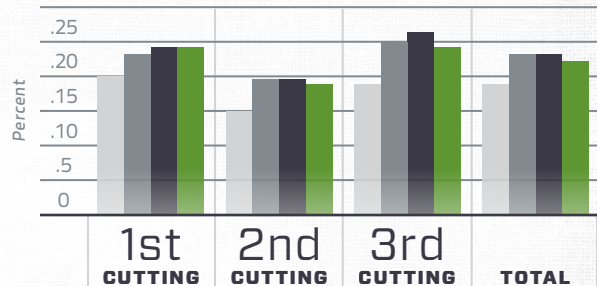
##### YIELD RESPONSE



##### RELATIVE FEED VALUE



##### PHOSPHORUS TISSUE RESPONSE



- Control
- Transit Soil** After 1st Cutting
- Transit Soil** After 1st and 2nd Cutting
- Transit Soil** After 1st and 2nd Cutting with **Zicron Soil** Added to 2nd Cutting

