

Feeding ZPM Improves Milk Production and Reproductive Performance in Lactating Dairy Cows

Study Objective

Critically review randomized controlled trials evaluating the effectiveness of supplementing dairy cows with Availa®4 or 4®Plex.

Animals

Data from 20 published research papers and reports

Treatments

Fed starting pre- or post-calving:

Availa-4: 360 mg Zn, 200 mg Mn, and 125 mg Cu from amino acid complexes, and 12 mg Co from cobalt glucoheptonate

4-Plex: 360 mg Zn and 200 mg Mn from methionine complexes, 125 mg Cu from Cu lysine complex, and 25 mg Co from cobalt glucoheptonate

Study Duration

20 research papers used in the analysis were published between 1997 and 2009.

Location

Australia, Italy, Mexico, New Zealand, and United States

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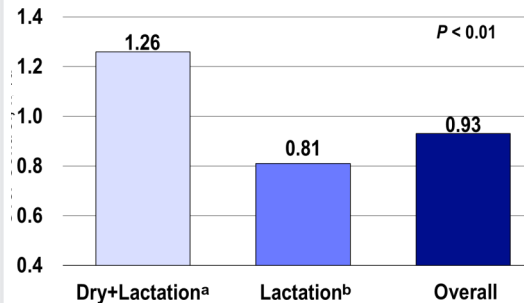
Results Summary

Supplementing dairy cows with Zinpro Performance Minerals® (ZPM) resulted in:

- ✓ Greater milk, ECM, and FCM production
- ✓ Greater milk solid content
- ✓ Fewer days open
- ✓ Fewer services per conception
- ✓ More cows pregnant

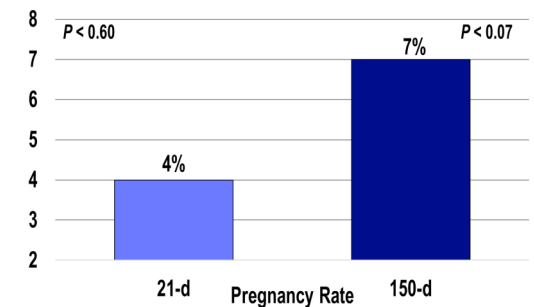
Feeding Availa-4 or 4-Plex, increases cow productivity and economic return

ZPM Increases ECM Production, Increase Over Control, kg/d

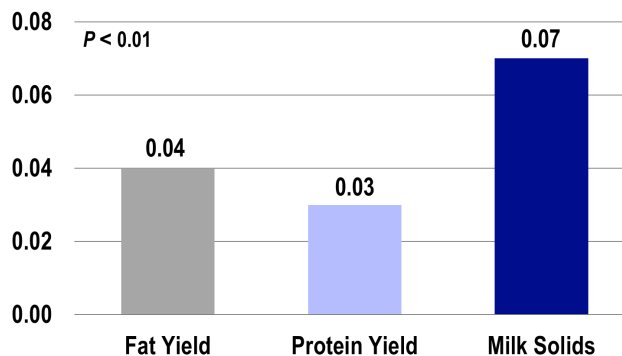


^a ZPM feeding started in dry period and continued through lactation
^b ZPM feeding started post-calving and continued through lactation

ZPM Increases Pregnancy Rates, Percent Increase Over Control



ZPM Increases Milk Components, Increase Over Control, kg/d



Feeding ZPM pays, with an ROI greater than 9:1

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Rabiee, A. R., I. J. Lean, M. A. Stevenson and M. T. Socha. 2010. Effects of feeding organic trace minerals on milk production and reproductive performance in lactating dairy cows: A meta-analysis. J. Dairy Sci. 93:4239-4251.