

Increasing the Ratio of Zn From Availa®Zn Improves Performance of Holstein Cows



Study Objective

Evaluate feeding increasing Zn levels from Availa®Zn, replacing zinc sulfate, during both the dry and lactating periods, on Holstein cow performance.



Animals

136 Holstein cows;
66 primiparous and 70 multiparous

Treatments

Control: 75 mg Zn/kg DM from ZnSO₄; in the pre- and post-partum periods

16 Availa-Zn: Availa-Zn replaced 33.3 and 15.5 mg Zn/kg diet DM ZnSO₄ in the pre- and post-partum periods

40 Availa-Zn: Availa-Zn replaced 66.6 and 40 mg Zn/kg diet DM ZnSO₄ in the pre- and post-partum periods



Study Duration

28 d pre-partum through 250 DIM



Location

Iowa State University, Ames, IA, USA



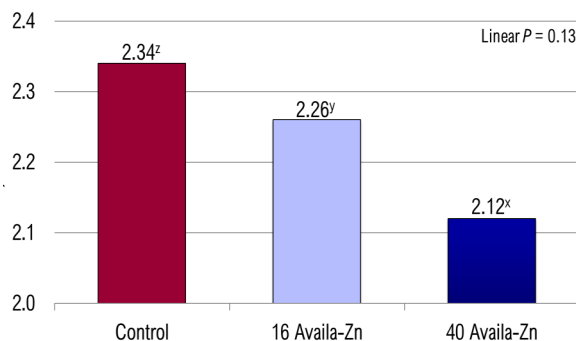
Results Summary

Feeding 40 ppm Zn from Availa-Zn to dairy cattle during the dry and lactating periods:

- ✓ Improved feed efficiency (FE)
- ✓ Decreased somatic cell count (SCC)
- ✓ Increased colostrum IgG content at calving

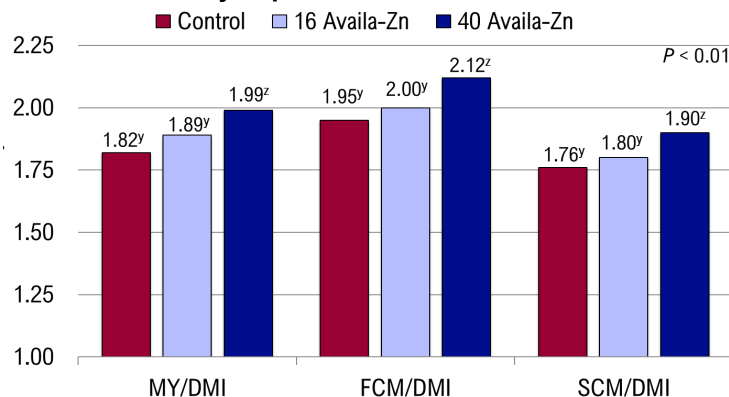
Dairy cow health and performance are improved by increasing the Zn level fed from Availa®Zn from 16 (360 mg/d) to 40 ppm.

Availa-Zn Linearly Lowered SCC



40 ppm Availa-Zn has an ROI greater than 9:1

Availa-Zn linearly Improved FE^a



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Nayeri, A., N. C. Upah, E. Sucu, M. V. Sanz-Fernandez, J. M. DeFrain, P. J. Gorden, and L. H. Baumgard. 2014. Effect of the ratio of zinc amino acid complex to zinc sulfate on the performance of Holstein cows. J. Dairy Sci. 97:4392-4404.