

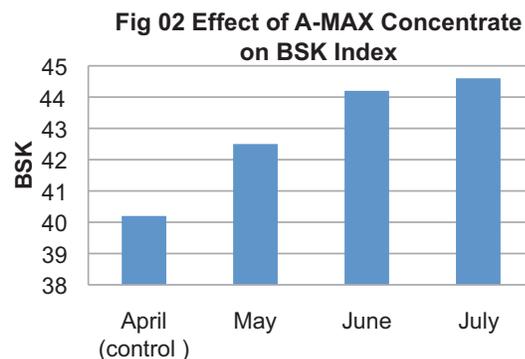
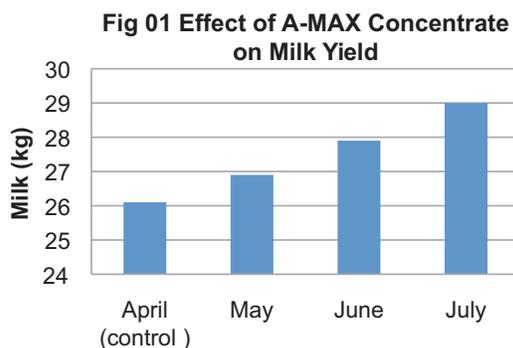
THE EFFECT OF A-MAX CONCENTRATE ON PRODUCTION PERFORMANCE IN DAIRY CATTLE

Introduction: Yeast and yeast products have been used in ruminant nutrition to manipulate rumen fermentation and, therefore, production response. Feeding of yeast culture is known to influence the composition and metabolic activity of the intestinal microflora. In this study, A-MAX™ Concentrate is tested in dairy cattle for production performance.

Objective: To evaluate the effects of supplementing A-MAX Concentrate on production performance in dairy cattle.

Materials and Methods: This research was carried out at a dairy farm in Doetinchem, Netherlands. The duration of the trial was March-July 2009. Seventy multiparous cows were first assigned to a control diet for two months, March and April. This was followed by feeding a diet supplemented with 60g/hd/day A-MAX Concentrate for three months, May-July. Two months after feeding the A-MAX Concentrate supplemented diet, the concentrate in the diet was reduced by 1 kg in July. Milk production was recorded using the milk production registration index (MPR). BSK index (index for standard cow) was calculated using MPR to correct milk production for all sampled cows between 5 and 305 days in lactation. The measured milk was also corrected for age, season, date of calving, and management level of the company.

Results: Milk production increased when A-MAX Concentrate was supplemented in the diet and resulted in 2.9 kg more milk compared to start of the trial when the cows were on control diet (Fig 01). When the data was normalized with BSK index, we still saw a 4.4 increase in the BSK index over control (Fig 02). In the third month of A-MAX Concentrate supplementation, a 1.1 kg of milk increase was noted in spite of decreasing the concentrate in the diet by 1 kg. Composition of milk, particularly protein and fat content, was not altered over the course of the trial. The overall health status of the cows was improved with the treatment.



Conclusion: Cows supplemented with A-MAX Concentrate produced more milk without altering the milk composition. Use of A-MAX Concentrate will result in higher milk production and reduced feed costs.



To learn more contact your nutritionist, veterinarian or Arm & Hammer Animal Nutrition representative.