Summary

The mineral composition (Ca, P, Mg, K, and S) of the forages Coastcross [*Cynodon dactylon* (L.) Pers x *Cynodon nlemfuensis* Vanderyst], Tifton 68 (*Cynodon* spp.), and Tifton 85 (*Cynodon* spp.) was evaluated at the experimental field of the Department of Zootechny, Federal University of Lavras (UFLA) in Minas Gerais, Brazil. The grasses were submitted to four doses of N (0, 100, 200 and 400 kg/ha), in the form of ammonium sulfate, and the soil of the experimental area was a dystrophic Dark Red Latosol. At the beginning of the experiment, in November 1998, this soil was duly limed and fertilized with a basic uniform dose of N, P, and K. A randomized block design was used with six replicates, and treatments were arranged in split plots, with the grasses as main plots and nitrogen doses, as subplots. The application of N affected the Ca and S concentrations of the grasses, but did not affect the concentration of the other minerals evaluated. The significant change observed in these concentrations is attributed to the effect of the cultivar.