Summary

The experiment was established on an Oxisol, at the Dairy Cattle Research Center (EMBRAPA), Coronel Pacheco, MG, Brasil, to ascertain the forage quality of accessions of the genus Brachiaria (B. decumbens BRA-000116; B. decumbens BRA-000141; B. brizantha BRA-000337: B ruziziensis BRA-000272 e B. humidicola BRA-000213), under three levels of applied nitrogen ($N_0 = \text{zero N}$; $N_{75} = 75 \text{ kg/ha/}$ year; and $N_{150} = 150 \text{ kg/ha/year}$). Both in the wet and the dry season the crude content of all accessions of Brachiaria increased with increasing level of applied nitrogen. The lowest crude protein content was that of B. humidicola. The nitrogen treatments had no effect on the concentrations of phosphorus, calcium and potassium in the forage. The concentrations of phosphorus and potassium of the Brachiaria accessions were similar and adequate to meet the plant and animal requirements. In general, the calcium concentration in the forage was low, particularly in B. brizantha and B. humidicola.