

Summary

The voluntary intake of *Mimosa caesalpiniiifolia* Benth. by 18 castrated sheep, averaging 18 months in age and with an initial weight of 26.34 kg, was evaluated at Empresa Pernambucana de Pesquisa Agropecuária (IPA), Recife, Brazil, using the routine methodology of total collection of feces. *Mimosa caesalpiniiifolia* was offered to sheep as mulch and two types of hay: thornless and with aculeus. Average voluntary intake (g/kg LW^{0.75}) was dry matter, 34.20 ± 4.92; organic matter, 31.27 ± 4.40; crude protein, 5.65 ± 0.56; and total digestible nutrients (TDN), 19.23 ± 2.81.