

Summary

The response of the shrub legume *Cratylia argentea* to lime application was examined in a red-yellow Latosol (Oxisol) under glasshouse conditions, at the Dairy Cattle Research Center, located in Coronel Pacheco (Minas Gerais, Brazil). A randomized block experiment design was used with three replications and six application rates of $\text{CaCO}_3 + \text{MgCO}_3$ (Ca:Mg = 4:1): 0, 1, 2, 4, and 6 t/ha. There was a positive response to lime, growth of the plant aerial part increasing significantly up to 4 t/ha lime. The estimated lime rate to achieve 90% maximum growth of *C. argentea* was 1.5 t/ha. The critical internal

concentrations of Ca and Mg and the soil base critical saturation at pH 7, associated with 90% maximum growth, were 1.20%, 0.28%, and 23.3%, respectively.