11th International Conference Modern Trands in Activation Analysis

MOTT EVALUATION OF HUMAN DENTAL LOSS CAUSED BY CARBAMIDE PEROXIDE BLEACHING AGENT USING NUCLEAR TECHNIQUES. E. M. Adachi(1), M.N. Youssef(1) and M. Saiki(2)

(1) Faculdade de Odontologia, USP, Departamento de Próteses, Av. Lineu Prestes 2227, CEP 05508-900, São Paulo, SP, BRAZIL

(2) Neutron Activation Analysis Laboratory, IPEN-CNEN/SP, Av. Prof. Lineu Prestes, 2242, Cidade Universitária, CEP 05508-000, São Paulo, SP, BRAZIL

In aesthetic In

M078 EFFECT OF LIMING AND FERTILIZER USE ON MINERAL CONTENT AND PRODUCTIVITY OF BRACHIARIA DECUMBENS. M.J.A.Armelin(1), O. Primavesi(2), A.C. Primavesi(2), M. Saiki(1)

(1)Neutron Activation Analysis Laboratory, IPEN/CNEN-SP, Av. Prof. Lineu Prestes 2242, CEP 05508-000, São Paulo, SP, BRAZIL

(2)Southeast Embrapa Cattle - CPPSE/EMBRAPA, P.O.Box 339, CEP 13560-970, São Carlos-SP, BRAZIL

To restore a degraded pasture of Brachiaria decumbens, located in São Carlos - SP, an experiment was carried out to study the effects of limestone use with and without incorporation and fertilizer use on mineral content and forage yield, after 3 years of treatment. Limestone and phosphorus were applied at the beginning, NK were applied after each cutting. The experimental design was a random block (100 m2), with 6 replications and 4 treatments. Each block received 4 tha of limestone, except the control. The forage samples were collected 7 cm above the soil surface. Instrumental neutron activation analysis (INAA) followed by gamma-ray spectrometry was the analytical method used to determine mineral contents. Dry matter yield and mineral content did not differ between limestone applied on soil surface or buried in, or the treatment without limestone, although dry matter yield showed great positive (14 times) difference in relation to the treatment with limestone but without NK fertilizer. The contents of Ca, Mn, Rb, Mo, V, Co, Cr, Sm, Th, Cs, Sc and Eu in forage were negatively affected with the NK use, perhaps due to a dilution effect, while a reverse were observed for K, CI and Se, due to the input of KCI. It seems that limestone is not a key input to restore degraded tropical pastureland, grown on acid soils.

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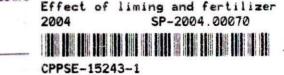
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