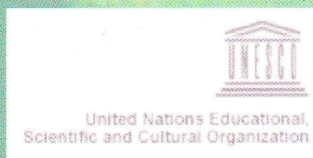


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ANTHROPOGENIC EFFECTS ON THE
HUMAN ENVIRONMENT IN THE TERTIARY
BASINS IN THE MEDITERRANEAN
PROCEEDINGS

Edited by:
Boev & Serafimovski
Štip, 2004

**TOTAL NITROGEN AND EXCHANGEABLE AMMONIUM IN
THE SOILS WITH RICE, BARLEY AND WHEAT**

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Abstract

The paper presents data on the presence of total nitrogen and exchangeable ammonium in the soils with rice, barley and wheat crops. Nitrogen is the most deficient element and the most limiting factor for crop production. Following methods were used to determine the contents of total N and exchangeable NH_4^+N .

Total N content: Regular Kjeldahl method (Bremner and Mulvaney 1982). Exchangeable NH_4^+N content. The method involves equilibrium extraction of soil sample with 0.1M KCl, and successiveness spectrophotometry order with Nessler's reagents. Examination was carried out in the laboratory of the Faculty of Mining and Geology in Stip.

Key words: Nitrogen, ammonium, rice, barley, wheat, soil, spectrophotometry.