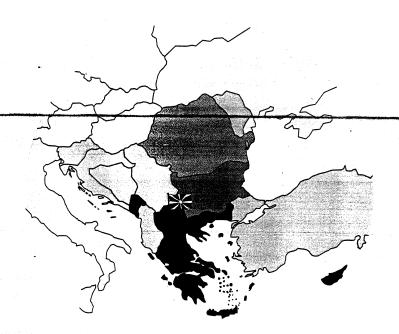


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BTE - 1 THE CONTENTS OF PROTEINS WITH SOME ITALIAN RICE VARIETIES GROWN IN THE REGION OF KOCANI-MACEDONIA

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In 2003 in the program of selection the following varieties of rice have been introduced from Italy: andolla, castelmochi, cistella, dedalo, diana, italmochi, pegaso, prometeo, ringo and selenio. These varieties with two standards: biser-2 and monticelli have been grown in a two-year's time in a field experiment with a method of random block system in Kočani, Macedonia. Each one of the varieties of rice and the standards were being grown with three repetitions. The size of a repetition was 5 m². A standard agro technique has been applied. With these varieties in fase of full maturity, the contents of total nitrogen in milled samples of grains of paddy and white rice has been determined by Kjeldahl method. By multiplying the contents of the total nitrogen with the coefficient 5.95 the contents of the crude proteins has been determined as well.

Compared with the results from 2002 (when the varieties were grown in Italy), with the Italian varieties grown in soil-climate conditions in Kočani in 2003 a significant reduction of the contents of total nitrogen and protein in the grain of paddy and white rice has been observed. It tends on increasing in the next year 2004.

The biggest average contents of protein in Italian varieties grown in Macedonia (average 2003/2004) is found in the variety dedalo (paddy – 7.32 %) and pegaso (white rice – 7.62 %) and the smallest in prometeo (paddy – 6.16 %) and prometeo and castelmochi (white rice – 6.37 %). The standard one is: biser-2 (paddy – 6.61 %; white rice – 6.75 %) and monticelli (paddy – 6.96 %; white rice – 7.08 %).

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