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Subscription

Czech J. Food Sci.

J. Tomáš J. Čéry, S. Melicháčová, J. Árvay,

P. Lazor: Monitoring of Risky Elements in Zone of Pollution Strá žske Area

Czech J. Food Sci., 27 (2009): S397-S400

The work aimed to evaluate the state of agricultural soil contamination what is important for the gaining of information needed for growing of hygienic safe raw materials and foodstuffs. Metallic pollution of soil in Zemplínska polluted area has begins by accumulation of heavy metals in soil, mainly resulting from location in vicinity of chemical and industrial factories, as well as from many others sources. The pH value development indicates gradual trend of soils acidification, except of alkalic ones reaching up to 20% from total arable soils in Slovakia. Acidification is process, where acidity of abiotic compounds has been increased. Soil reaction is a significant agrochemical property markedly affecting growing and

developing of plants, and has directly effect on soil fertility, influencing the ecological conditions for plants and soil microorganisms. The site had been localised with GPS and 5 sampling places had been fixed. From these sites the soil samples were taken from 1 depth, A horizon (0 – 0,2 m) and then processed and managed according to particular ISO norms. The soil reaction and the heavy metals contents in solution of *aqua regia* and HNO_3 in soil samples were assessed. Afterwards the gained results had been compared with limit values from legislative documents.

Keywords:
heavy metals; agricultural; soil hygiene; Strá žske area

[fulltext]