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ROLE OF FUEL PARTICLES IN CONTAMINATION OF CEREAL PRODUCTION WITH $^{90}\mathrm{Sr}$ IN IVANKIV DISTRICT OF KYIV REGION

In the year 2011 sampling of soil and grain in Ivankiv district of Kyiv region at all fields adjacent to the ChNPP exclusion zone was carried out, where the cereal crops were planted. In all samples ¹³⁷Cs and ⁹⁰Sr activities were measured. Besides, in the soil samples the exchangeable fractions of ⁹⁰Sr and calcium and acidity of the soil solution were determined. Dependence of ⁹⁰Sr soil-grain transfer factors was specified.

Keywords: Chernobyl accident, radionuclides, specific activity, soil contamination density, fuel particles, permissible levels, radiological monitoring, transfer factors, countermeasures.