

Cultivation and analysis of rice plant using the soil contaminated with radioactive cesium (II)

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Abstract

It was examined that the effect of addition of stable cesium on the transfer of radioactive cesium from paddy soil to rice using the soil of rice paddies of two areas in Fukushima city. It was reconfirmed that the transfer factors of radioactive cesium for the brown rice cultivated with water including stable cesium ions were much larger than those for cultivated with water in which nothing had been added. This implies that the cesium atoms added were replaced with radioactive cesium atoms in soil. The effect seemed to be strongly influenced by the difference of the soil ingredient.