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**AGROPHYSICAL STUDIES OF SOIL FOR PRECISION AGRICULTURE: PROBLEM SETTING AND METHOD**

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*Problem setting and a method for the determination of agrophysical indices from the data of limited field and laboratory studies were presented. The method is based on theoretical soil-hydrophysical models for the indirect estimation of target indices with accuracy required for precision agriculture technologies. Verification results were given, and prospects for the method were discussed.*

*Keywords: agrophysical indices, soil-hydrophysical model parameters, precision agriculture technologies.*