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Agric. Econ. – Czech

J. Vilček

Pedo-ecological categorization of Slovakia rural countryside with aspect to rye (*Secale cereale* L.) growing suitability

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The work objective is to differentiate rural land of Slovakia with aspect to the

possibility of effective rye growing. The differentiation is based on pedo-climatic and production economic parameters. At soil categorization, correlation relationships between the site properties (soil and climatic conditions) and crop biological and agro-technological requirements were considered. Rye requirements were included into yield databases using the software filters in the way that the given site property excluded or limited rye growing, what was reflected in predicted production. The prediction was subsequently interpolated into four suitability categories: soils not suitable for rye growing, less suitable soils, suitable soils and very suitable soils. The database was formed and each of the Bonited Soil-Ecological Units (BSEU) was added in it as well as particular category of suitability for rye growing. By mediation of the Geographic Information System on BSEU distribution in Slovakia, the map of categories of soil suitability for rye growing was also generated. In Slovakia, there is 21% of farmland very suitable for rye growing, 23% suitable, 24% less suitable and 32% non-suitable soils for rye growing according to our calculation. In the paper, these categories are

characterized in details and specified from the view of geographic, soil, climatic, productivity, economic and energetic parameters.

Keywords:

rye; soil suitability for growing rye, agricultural landscape categorization

[fulltext]