



The influence of spacial and functional management on water quality in small catchment

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In the 4th rank agricultural catchment situated in Sumava area in Czech Republic is one style of spacial (landscape matrix) and functional (the way and intensity of land use) management of hydrologically chosen part of landscape with the aim on water quality protection, retardation and accumulation demonstrated. The newly suggested method of catchment landscape structure zonation and ways of evaluation with determination of potential ecocritical lines involving elimination and corrective arrangements (list of corrective arrangements with differentiation of disturbance level as well as localization parameters).

On the basis and in accord with the results of correlational analysis is the process of landscape structure importance calculation from the viewpoint of water quality described (including text and graphic presentation).

Based on such formulated outputs is the new, more stabil landscape matrix with corresponding grade and form of stress designed. Mentioned landscape management policy (with time dimension cca 30 years) has general character and it is possible to use it in all regions, especially in areas with increased natural value.

Key words: spatial-functional management, water quality, landscape zonation