

Ranking of West Georgia in subtropical humidified zone agroecosystem

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It was elaborated a method of agro-ecosystem ranking for agriculture ecosystem in one of regions of Western Georgia - Adjara subtropical humidified zone. On the basis of mineralogical and morphometric analysis (biometric parameters, beginning and end of growth, beginning of fruit ripening and mass ripening, frost resistance etc.) of agriculture culture and by multiple-factor approach we have evaluated culture's rational disposition and optimal environment for development of land. The main accent was made on geomorphological (relief, inclination, exposition) and agroclimatic (sum of active temperatures, hydrothermal coefficient, temperature conditions, physical and chemical features of soil) factors. As a result of implemented zoning a landscape zone with agricultural resources potential and hypsometrical levels optimal for development of agriculture culture was revealed. During the research we also revealed corresponding ecosystem, compatible with feijoa zone, evaluation of quality of forest land and determination of ecosystem and its indicating character. For determination of compatibility of agriculture plants and distribution of forest ecosystem we have created a map of large-scale ecosystems and geoinformation system. By Cartometric and geographic-informational analysis it became possible to find information about types of forest ecosystems, areas occupied by them and their share in researched zone.