Abstract

Determining the right land for fish farming is very influential in achieving optimal land productivity to reduce the impact of time and financial losses. This thesis study aims to develop a Geographic Information System for the Selection of Freshwater Fish Farming Land Using the Logic Scoring of Preference (LSP) Method. Analysis of land suitability data using the LSP method, the results as a material for decision making in land selection. LSP method has a consistency with properties that can be observed from consideration of human evaluation. The results of this study are in the form of a system that can be used for the selection of fish cultivation land based on the LSP method and visualized in the Geographic Information System (GIS). The results of the calculation of land suitability of thirty-six alternative land in the case study in Kerinci Regency, then obtained alternative land that has a high level of suitability Pendung Mudik the suitability value of 0.96 is the best alternative based on LSP calculation results. Validation of LSP calculation and expert assessment is 80.55%.

References
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Index Terms

Computer Science
Information Systems

Keywords

Logic Scoring of Preference (LSP), Fish Cultivation, Geographic Information System.