

**Land Evaluation System for Plant Selection Using the  
Forward Chaining Method**

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***ABSTRACT***

*The land evaluation system is a tool for assessing the suitability of a piece of land for various types of crops. The lack of understanding among farmers regarding soil fertility levels for certain crops often leads to the failure of agricultural ventures. The content of nutrients such as Nitrogen (N), Phosphorus (P), and Potassium (K) in the soil plays an important role in determining the fertility level of the land. This research aims to develop a land evaluation system by utilizing soil image processing technology and the forward chaining method to determine land suitability and provide appropriate crop recommendations. It is hoped that this system can help farmers improve their agricultural productivity.*

***Keywords:*** *Expert System, Forward Chaining, Evaluation, Land*