

SEAG-Symposium, 27.-31.8.2001, Los Baños, The Philippines

**“Resource Management:
Private-Public Partnership and Knowledge Sharing”**

**ECOLOGICAL LAND ZONING AND CRITICAL AGRONOMIC
ANALYSES OF BALI ISLAND FOR FRUIT-TREES**

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Abstract

The fruit tree orchards, besides its economic importance, may share a significant role in soil and water conservation,. The aim of this study is to produce a land-zoning model for fruit trees, which can be used as reference for other regions alike. For this purpose, Bali-island was used as a model.

The method used was a reflexive study, followed by a field survey. The aim of the reflexive study (compiling and abstracting literatures and other related information) was to build a comprehensive reference of the ecological indices for fruit-trees. The main source was an ecological survey in the centers of fruit-tree orchards in Java, carried out by Terra in 1949. Based on that a land zoning of Bali-island was made. In conjunction with that activity a field survey to delineate the location center of every fruit-trees species throughout Bali Island was carried out. The map of the delineated existing fruit centers was than overlapped with the land zoning map from the first step, and discussed.

This discussion leads to the conclusion that almost all kinds of fruit-trees that were found in Java were also found in Bali. It was found that all growth requirement indices used in this study were functional, although some anomalies were also found. These anomalies were discussed, and proposed to be some working hypothesis for the next research.

Keywords: Agro-ecology, Land-zoning, Fruit-trees