

## INTISARI

Penelitian ini bertujuan untuk mengetahui pengaruh faktor pembentuk tanah terhadap sifat fisik dan kimia tanah, jenis tanah yang berkembang, kesesuaian lahan dengan tiga metode yaitu limitasi sederhana, limitasi Sys, dan parametrik, serta rekomendasi pemanfaatan lahan di Desa Gunungan. Desa Gunungan dibagi dalam 29 satuan peta lahan yang berasal dari penggabungan peta penggunaan lahan, batuan geologi, dan kelas lereng. Ordo tanah di Desa Gunungan berdasarkan *soil taxonomy* USDA meliputi Entisols, Inceptisols, dan Alfisols. Jenis tanah di Desa Gunungan berdasarkan taksonomi nasional meliputi Kambisol, Gleisol, Regosol, dan Mediteran. Jenis tanah berdasarkan *World Reference Base* meliputi Leptosols, Cambisols, Gleysols, Regosols, dan Luvisols. Kelas kesesuaian lahan lebih baik pada metode limitasi Sys dibandingkan limitasi sederhana dan parametrik. Rekomendasi pemanfaatan lahan dengan penanaman satu musim padi pada Bulan November sampai Maret dan 2 musim jagung pada Bulan April sampai Oktober. Usaha perbaikan yang dapat dilakukan petani antara lain pengolahan tanah, pemupukan P dan K, serta pembuatan teras.

**Kata Kunci: Jagung, Jenis tanah, Kedelai, Sorgum, Ubi kayu**

## **ABSTRACT**

This research was carried out with the aim of determining the influence of soil-forming factors on the physical and chemical properties of soil, the type of soil that develops, land suitability using three methods, namely simple limitation, Sys limitation, and parametric, as well as recommendations for land use in Gunungan Village. Gunungan Village is divided into 29 land map units which come from combining land use maps, geological rocks and slope classes. Soil types in Gunungan Village based on the USDA soil taxonomy include Entisols, Inceptisols, and Alfisols. Soil types in Gunungan Village based on national taxonomy include Kambisol, Gleisol, Regosol, and Mediterranean. Soil types based on the World Reference Base include Leptosols, Cambisols, Gleysols, Regosols, and Luvisols. The land suitability class is better in the Sys limitation method compared to simple and parametric. Recommendations for land use by planting one season of rice in November to March and two season of maize in April to October. Farmers can improvements land include tilling the soil, fertilizing P and K, and making terraces.

**Keywords: Cassava, Corn, Soil type, Sorghum, , Soybeans**