

# EVALUASI DAYA DUKUNG LAHAN UNTUK TANAMAN PANGAN PADA LAHAN PERKEBUNAN TEBAKAU RAKYAT DI LERENG TIMUR GUNUNG SINDORO

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## **ABSTRAK**

*This research was in east part of Sindoro Mountain in Central Java with elevation around 1000 – 2000 m. Observation showed land degradation occurred in this location. This research was to know decrease of land quality of tobacco area and the possibility of this area for food production plants as tobacco substitution. Research was did by soil survey, laboratory analysis and land suitability. Results showed that the soil of area is Entisols and Andisols with slope 8 to 30 %. GIS analysis resulted 5 land unit area. Land suitability for tobacco is suitable marginally (S3) and not suitable (N) with limiting factor of precipitation, soil solum, pH H<sub>2</sub>O, C-organic and slope. Land suitability for corn is marginally suitable (S3) and not suitable (N) with limiting factor of precipitation, soil solum, pH H<sub>2</sub>O, C-organic and slope. Land suitability for cassava is not suitable (N) with limiting factor of soil solum and slopes. All of land unit area have limiting factor for tobacco or food plants. Degradation of land resulted in decrease quantity yield of tobacco.*

*Key word: food plants, land, soil degradation, tobacco*