

ABSTRACT

LANDSCAPE ARRANGEMENT TO REDUCE EROSION OF TOBACCO LAND AT THE EASTERN SLOPE REGION OF SINDORO MOUNTAIN TEMANGGUNG

This research aims to arrange the landscape of tobacco land on the eastern slopes of Mount Sindoro that are prone to erosion due to intensive land use. This research was conducted in Gunungsari Village, Bansari District, Temanggung Regency in April to July 2017. This research was conducted by survey method and continued with the calculation of soil erosion rate using Universal Soil Loss Equation (USLE) method. The results showed that Actual Erosion value for each soil samples are: Location I 42.67 ton/hectare/year with slope 20%, Location II 44.81 ton/hectare/year with slope 16%, and Location III Of 31.80 tons/hectare/year with a slope of 13%. From the results of the land in Gunungsari Village Bansari District Temanggung Regency has a moderate to severe erosion hazard. The landscape arrangement based on the conservation method is used to reduce the erosion rate occurring in the tobacco area in Gunungsari Village, Bansari District, Temanggung Regency. To reduce erosion in the tobacco land of Gunungsari Village Bansari District can use two strategies: agronomic treatment and organic mulch, and mechanical treatment. Agronomic treatment is done using the pattern of planting sap with peanut plants as cover crop and the use of mulch of straw as ground cover on tobacco land in Gunungsari Village Bansari District Temanggung Regency that can reduce the rate of erosion. The mechanical treatment of gulud terraces can reduce the rate of surface flow so that the erosion occurs on the tobacco land decreases.

Key words: The rate of erosion, Tobacco land, Landscape arrangement