

ABSTRACT

STUDY OF MACRO ECOLOGICAL: IMPACT OF THE LAND-COVER CHANGES IN THE PREVALENCE OF THE DISEASE OF TUBERCULOSIS, DENGUE AND MALARIA IN TANGGAMUS REGENCY

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Research has been conducted prevalences of the disease of tuberculosis, dengue, and malaria caused by land-cover change of Tanggamus Regency. Research taked in five sub-district Wonosobo, Bandar Negeri Semuong, Semaka, Kotaagung, and Kotaagung Barat .

Research carried out by two methods: landsat ETM7+ satellite imagery analysis aims to interpret the land-cover change in ten years and statistical analysis that aims to interpret prevalleces of tuberculosis, dengue, and malaria. Based on image analysis results revealed that there is a trend change in the closure of land in Tanggamus is forest area reduce by -23.56%, mix garden increased by 11.47%, settlements increased by 40.89%, wetland reduce by 35.12%, dry land farming area increased by 14.37%, scrub area increased by 58.72%, whereas swamp area relatively there is no change in space. There is a statistical relationship between land-cover changes in forest area, mix garden, dry land farming area, and the total area of scrub with respect to the prevalence of the disease dengue fever in Tanggamus Regency

Keywords: Land cover changes, Tuberculosis, Dengue, Malaria