ABSTRACT

LASTI PITRIANI. Potential Area Producing Feed Supporting the Development of Cattle Population in Tanah Laut Regency. Under supervision of TOTO TOHARMAT AND HARRY IMANTHO

Forage has very important role as a ruminant feed that can not be replaced by the concentrate. Almost 90% of ruminant ratio comes from forage. There is a continuing conversion of forage producing areas into other uses resulting in the reduction of forage availability 30%. Remote Sensing (RS) technology and Geographical Information System (GIS) can be used in agricultural mapping to manage natural resources in certain. This study aimed to identify the potential of areas producing feed and determine its availability in supporting the development of cattle population in Tanah Laut Regency. The showed 72,902 ha of the area including pasture (6,324 ha) maize field (25,622 ha), paddy field (40,956 ha) has potential to produce forage of 234,404 tons dry matter per year. One sub district in the regency was classified as moderate CCI area. The RS technology and GIS can be used to calculate feed availability development of cattle population. Tanah Laut regency has a potential capacity to accommodate more cattle population.

Keywords: cattle, carrying capacity, forage, Tanah laut Regency