ABSTRACT

This research is usefullness of digital image of Landsat Thematic Mapper and Geography Information System to act of determining directive function of area in Purworejo ragency by considering the factor of physical field and landuse at this moment. The aim of this research are (1) make use of digital image of Landsat Thematic Mapper to ekstraction physical parameter data of the field as a basis to act of determining directive zonation function of the area in Purworejo ragency, (2) make use of Geography Information System in managing, saving, processing, manipulating, and analysing with data presentation to handling data of remote sensing to act of determining directive zonation function of the area in Purworejo ragency.

Data of remote sensing which used in this research is Landsat TM with composite 453. Software which used in ILWIS 1.4 and PC Arc/Info 3.5.1. resulting the data from remote sensing image are landform, landuse, and characteristic of the area involve drainage surface, quantity of the soil water, and irigability area. Work of field at the research intends to complete data from the result of interpretation and to find data from characteristic of the area which those can not get from remote sensing image, namely : solum, soil texture, quality of the soil water, and pH of soil.

Directive area determined on this research are the protection area and the cultivation area involve (1) one season in wet field plant area (2) one season in length of dry field plant area (3) permanent plantation area (4) settlement area (5) dry field forest area (6) opened sand beach area. The act of determining those areas use two methode are scoring method for protection area and matching method to act determining directive function of cultivation area. The result of overlapping between protection area and cultivation area recommended by landuse in this moment because there are several areas which that area may not be changed on its usefullness, namely : settlement area, irigation rice field, the protection area, and military strategic area.