

ARIA Mukti NURUDIN . Mapping erosion hazard index (IBE) On The Village Mangli , Kaliangkrik district, Magelang regency. Under the guidance Dr. Ir. S. Setyo Wardoyo, MS and Dr. Ir. Djoko Mulyanto, MP.

ABSTRACT

Mangli village District Kaliangkrik Magelang regency Central Java Province is located in the mountains at an altitude of 1000-3000 meters above sea level surface has wavy topography and slope grade level that is 15-30 %, 30-45 %, 45-65 % and > 65 %. The inclination of the slopes for different soil erosion when are going to drive the high rainfall and that will happen is accelerated erosion would cause much less damage to the land of their land management even less attention to the rules of conservation. When was known to the erosion hazard level will be done conservation actions for land preservation efforts. Rapid erosion or unfathomable predicted using methods USLE (Universal Soil Loss Equation). On the basis of this research is thought to surmise mainly soil erosion, erosion hazard level and hazard index for mapping erosion hazard level of erosion and erosion hazard index is happening in the area. Mapping beneficial to provide information about the dangers of erosion. Research conducted in the Village Mangli in June - August 2013. The method of research using survey methods , sampling method is used purposive method based on map unit area . Land map units (SPL) is a map overlay or consolidation of results from several base map including: map soil type, height maps, topographic maps and land -use map layout . The parameters used in the study include erosivity rain (R) , erodibility (K), slope length (L) and dip slope (S), vegetation factor (C), conservation action factor (P), thick solum soil and bulk density (BV). The results showed erodibilitas divided into four classes (low, moderate, relatively high, high). Erosion hazard level is divided into four classes (very low, medium , large, very large). Erosion hazard index is divided into three classes (low, medium, very high). The difference in the slope of the land use and floor slopes very influential on the extent of erosion .

Keywords: erosion hazard, erosion hazard index, overlay