

**EVALUASI EROSI PADA DUA JENIS TANAMAN PENUTUP DENGAN
METODE PETAK KECIL DAN TONGKAT UKUR DI AREA REKLAMASI
PT. ADARO INDONESIA KABUPATEN TABALONG
PROVINSI KALIMANTAN SELATAN**

INTISARI

Dalam rangka mengurangi erosi, PT. Adaro Indonesia telah melakukan upaya penanaman *cover crop* di lahan reklamasi dengan variasi jenis tajuk. Namun hasil kegiatan tersebut belum dianalisis lebih lanjut. Tujuan yang hendak dicapai dari penelitian ini yaitu membandingkan laju erosi dan limpasan permukaan pada dua jenis *cover crop* yang berbeda dengan metode petak kecil dan metode tongkat di lahan reklamasi PT. Adaro Indonesia.

Metode yang digunakan dalam penelitian ini adalah metode lapangan, metode laboratorium, metode matematis, serta metode pengukuran erosi dengan petak kecil dan tongkat ukur. Metode lapangan dilaksanakan melalui survei dan observasi untuk mengetahui panjang lereng, kemiringan lereng, dan vegetasi penutup lahan. Penentuan titik sampel dalam penelitian ini menggunakan teknik *purposive sampling*. Lokasi penelitian terbagi menjadi dua tempat sesuai dengan kondisi *cover crop*, yaitu Disposals S12 (*cover crop* berdaun runcing) dan Disposals C34 (*cover crop* berdaun lebar). Data erosi didapatkan dari pengukuran metode petak kecil dan tongkat ukur. Pengukuran erosi petak kecil dilakukan setiap setelah terjadinya hari hujan, sedangkan data erosi tongkat diambil setiap tiga minggu. Metode laboratorium digunakan untuk analisis berat volume (BV) dan berat kering tanah. Kemudian perhitungan matematis dilakukan untuk menghitung total erosi tanah dan limpasan permukaan pada dua jenis *cover crop* yang berbeda.

Hasil penelitian menunjukkan bahwa pengukuran laju erosi dengan metode petak kecil di Disposals S12 (*cover crop* berdaun runcing) adalah 81,16 Ton/Ha/Tahun. Sedangkan pada Disposals C34 (*cover crop* berdaun lebar) yaitu 16,91 Ton/Ha/Tahun. Kemudian pengukuran laju erosi dengan metode tongkat ukur pada Disposals S12 adalah 959,87 Ton/Ha/Tahun. Sedangkan pada Disposals C34 yaitu 761,23 Ton/Ha/Tahun.

Kata kunci : Lahan Reklamasi, Erosi dan Limpasan Permukaan, *Cover crop*, Metode Petak Kecil, dan Metode Tongkat Ukur

**EROSION EVALUATION ON TWO DIFFERENT TYPES OF COVER
CROP BY USING MULTISLOT DEVISER AND MEASURED STICKS
METHODS IN RECLAMATION AREA OF
PT. ADARO INDONESIA TABALONG DISTRICT
SOUTH KALIMANTAN PROVINCE**

ABSTRACT

In order to reduce erosion, PT. Adaro Indonesia has made efforts to planting some various type of cover crop's canopy on reclamation area. But the results of these activities have not been analyzed further. The goal of this study is to compare the rate of erosion and run-off on two different types of cover crop with multislot deviser method and measured stick method in the reclamation area of PT. Adaro Indonesia.

The method used in this research are the field method, laboratory method, mathematical method, and so the multislot deviser and measured stick methods to measured the erosion rate. Fields methods is carried by field surveys and observations to determine the slope length, slope rate, land cover and vegetation. Determining sample points in this research were used by the Purposive sampling technique. Location of this study were divided into two places in accordance with the conditions of cover crop. Disposal S12 representing the grass cover crop and Disposal C34 representing the broadleaf cover crop. The erosion data obtained from measurements by the multilot deviser and measured stick method. Measurements erosion by using multislot deviser method are carried out every day after the rainfall, while the measured stick data were collected every three weeks. Laboratory methods use to analyzed the bulk density (BV) and measuring the soil dry weight. Thereafter the mathematical calculations performed to calculate the total soil erosion and run off at the two different types of cover crop.

The results proved that the erosion rate measurements by using multislot deviser methods in Disposal S12 which representing the grassed cover crop conditions is 81.16 tons/ha/year. While on Disposal C34 which representing broadleaf cover crop condition is 16.91 tons/ha/year. Afterwards the erosion rate measurements with measured stick method in Disposal S12 is 959,87 tons/ha/year. While on Disposal C34 is 761,23 tons/ha/year.

Keywords: Reclamation Area, Erosion and Run-Off, Cover Crop, Multislot Deviser Methods, and Measured Stick Methods