Análise espaço-temporal da precipitação pluviométrica e de índices de erosividade no município de Alegre, ES [

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text (article)

Analítica

The objective of this study was to analyze the temporal and spatial distribution of precipitation and erosivity indices in the municipality of Alegre, ES, Brazil. Daily time series of the rainfall of four weather stations (Rive, Guaçuí, Itaici and Burarama) were raised from 1964 to 2010, in the Hydrological Information System (Hidroweb) of the National Water Agency (ANA). Were calculated monthly and annual average precipitation index precipitation, Fournier index (Rc) and rainfall erosivity index (EI30). The results were, initially, submitted the descriptive statistics and, then, spatialized in ArcGIS 9.3 computer program, by using the Inverse Distance Weighted as interpolator. It is concluded that the municipality has two well-defined periods of rainfall: the rainy season (October to April) and the dry (May to September). Accumulated average annual rainfall varies from 1,300 mm to 1,800 mm. Since the estimates of rates of EI30 show the average annual earnings from 7,000 to 11,000 MJ mm ha-1 year-1 , with higher risks of soil loss by water erosion in the month of December , especially in the Northeast of the municipality. These results reinforce the need for local adoption of the soil and water conservation practices
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Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es