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- Volumes and Issues
- Special Issues
- Library Search
- Title and Author Search

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Submission

Review

Production

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Comment on a Paper





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Estimating RUSLE's rainfall factor in the part of Italy with a Mediterranean rainfall regime

N. Diodato

Monte Pino Naturalistic Observatory, Contrada Monte Pino, 82100 Benevento, Italy E-mail: nazdiod@tin.it

Abstract. The computation of the erosion index (*EI*), which is basic to the determination of the rainfall-runoff erosivity factor *R* of the Revised Universal Soil Loss Equation (RUSLE), is tedious and time-consuming and requires a continuous record of rainfall intensity. In this study, a power equation($r^2 = 0.867$) involving annual erosion index (*EI*_{30-annual}) in the Mediterranean part of Italy is obtained. Data from 12 raingauge stations are used to derive and then test a regional relationship for estimating the erosion index from only three rainfall parameters. Erosivity rainfall data derived from 5 additional stations are used for validation and critical examination. The empirical procedures give results which compare satisfactorily with relationships calibrated elsewhere.

Keywords: erosion index, rainfall, erosivity, Revised Universal Soil Loss Equation

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