

Abstract

How Important Is the Number of Points and Plot Size for Estimating Soil Erosion in Vineyards? [†]

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Abstract: Some issues remain still unclear in the studies related to soil erosion in vineyards: (i) the accuracy of the measures; (ii) the standardization of the procedures; and, (iii) the huge amount of viticultural areas that are not still measured. In this investigation, we will show research in a non-studied viticultural region using a standard procedure before tested in other vineyards (ISUM - Improved Stock Unearthing Method-), testing different plot sizes and a number of measures. We will estimate soil loss rates in the Tierra de Barros (Extremadura, SW Spain) using the graft union of the vines as a passive biomarker of the soil surface level changes and extra-measures in the inter-row areas. For this study case, for the first time, ISUM was applied to three inter-row and four rows in order to confirm how many points and transects must be measured.

Keywords: ISUM; Tierra de Barros; Land management



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