

Surface runoff and soil erosion in oil palm plantation of management unit of rejosari, PT Perkebunan Nusantara VII, Lampung

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Abstract	Soil and water conservation measures particularly water harvesting is very important in dry area of oil palm plantation. This research aims to study effectiveness of bund terrace and cover crop of Nephrolepis biserrata on surface runoff and soil erosion in oil palm plantation of Management Unit of Rejosari, PT Perkebunan Nusantara VII, Lampung. Soil erosion plots of 300 sqm with multislot divider were erected within blocks in Afdeling I and III of Management Unit of Rejosari, PT Perkebunan Nusantara VII, Lampung. The treatments were no bund terrace and N. biserrata (G0T0), with bund terrace but no N. biserrata (G1T0), no bund terrace but with N. biserrata (G0T1), and with bund terrace and N. biserrata (G1T1). Split block design in randomized block of research design was applied. The application of bund terrace and cover crop of N. biserrata significantly decreased surface runoff and soil erosion in harvested oil palm plantation. Cover crop of N. biserrata is more effective decreasing surface runoff and soil erosion than application of bund terrace.
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