

Soil Degradation in simple Oak Coppice Forests of the Ahr-Eifel



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(Eddie Schuppe)

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Cuvillier Verlag Mrz 2004, 2004. Taschenbuch. Book Condition: Neu. 208x144x12 mm. Neuware - Simple oak coppice forests of the Ahr-Eifel are confronted with extensive soil degradation. Four complementary investigations were conducted to study the impact of the environmental factors 'relief position_z', 'slope gradient_z', 'red deer_z', 'wild boar_z', 'stand density_z' and 'stand composition_z' on soil degradation in the investigation area. Soil quality was assessed determining several physical, chemical and biotic soil properties in the upper soil (Ah-horizon) of twelve different oak forest sites. Relief position and slope gradient influenced soil degradation in the investigation area. The content of basic cations (K⁺, Ca²⁺, Mg²⁺) was significantly lower, the content of Al³⁺ significantly higher at leeward slopes than at windward slopes. Soil nutrient contents were lower and the Al³⁺ content higher at the slope position 'plateau_z' and at sites with high slope gradients than at the foot slope and sites with low inclinations. Red deer grazing and trampling enhanced soil degradation at a windward forest site. Soil moisture, water retention capacity (WRC_{max}), nutrient availability and microbial activity were lower under the impact of red deer than in fenced exclosures. Opposite tendencies were found at a leeward forest site. The content of several soil nutrients and microbial characteristics were higher outside the fenced exclosure. The abundance of several soil invertebrates was clearly reduced at the unfenced plots of both slope aspects. 146 pp. Deutsch.



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