Source: FVA / T. Weidner

Forest Research Institute Baden-Württemberg - Department Soil and Environment Germany

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Project Partner 12

The Forest Research Institute Baden-Württemberg is the research institution of the regional forest administration, and in this role, it is experienced in the transfer of research results into practical policy guidelines.

The Forest Research Institute Baden-Württemberg, department of Soils and Environment (FVA_BW) has extensive experience in the monitoring and modelling of water and element fluxes into, within and out of forest ecosystems, and has been maintaining forest monitoring networks for more than 30 years, offering outstanding soil and climate datasets. Monitoring includes collecting long-term data on climate, soil water status, element deposition, and seepage water concentrations in open land and in different forest types. Main research activities of FVA_BW focus on understanding the impact of various silvicultural management options on water and nutrient cycles. Investigated management options include possible modifications of the forest stand structure, harvesting intensity and techniques, and measures to compensate nutrient loss due to harvesting. Furthermore, we investigate how forest management and its impact on water quantities and qualities are affected by climate change.

With this expertise, FVA_BW will contribute to the projective objectives 1 by assessing the impact of forest management on seepage water (hence groundwater contribution

and catchment runoff of forested catchments) and developing guidelines to adapt forest management with the aim to reduce seepage of potential pollutants to ground and surface water. It will also contribute to objective 2 by assessing scopes of actions within forest management in order to counteract negative impacts of climate change on water quantities and qualities. Ranking the various forest management options with respect to their potential to secure water resources and to counteract potential negative impacts of climate change will contribute to the transnational "Land Use Development Plan" (objective 3).

In CAMARO-D, PP12 is supporting 1 Associated Partner – Republic of Serbia Ministry of Agriculture and Environmental Protection, Water Directorate – www.rdvode.gov.rs .