

FLOW CHARACTERISTICS OF HYDROPOWER RESERVOIRS IN VIETNAM

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Summary

The article presents analyzing results of flow characteristics (flow rate, total flow, total sediment) of hydropower reservoirs in Vietnam. Data on rainfall, runoff and sediment volume were monitored on 66 hydroelectric reservoirs distributed throughout Viet Nam. The physical characteristics of monitored watershed are varying in area, elevation, slope and forest cover. The results show that the variation of flow, total rainfall and sediment volume in the monitoring basins are more than 200%. Factors influencing flow dynamics include: total rainfall (million m³), slope (%), forest cover (%). The relation equation is linear, with coefficient of determination $R^2 > 0.65$. The results of the study are the scientific basis for the valuation of forest environmental services for hydropower plants in Vietnam.

Keywords: *Watershed, hydropower reservoir, rainfall, runoff.*