CUNHA FORESTRY HYDROLOGY RESEARCH PROJECT IN BRAZI (V) ESTIMATION OF BASIN STORAGE OF D-BASIN USING A RUNOFF MODEL.

RESUMO

A simple conceptual runoff model was applied for predicting runoff from D-basin and was improved to evaluate the basin characteristics the model, based on hydrologic cycle in the forested watershed, requires daily rainfall and an estimate of daily potential evapotranspiration, such as humonn method. The model was tested with 3 hydrologic years of observed runoff. There was good agreement between the observed and predicted daily runoff, that is, averaged relative error of annual water balance was 6.0% and averaged relative error of daily runoff was 15%. The results shows that a conceptual runoff model applied is effective not only the predicting runoff but the evaluation of the hydrologic cycle, such as interception, evapotranspiration and change of basin storage.