

CUNHA FORESTRY HYDROLOGY RESEARCH PROJECT IN BRAZIL (VI)  
ESTIMATION OF WATER BALANCE OF D-BASIN USING A RUNOFF MODEL.

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RESUMO

Annual interception, evapotranspiration, direct runoff and base flow of D-basin and seasonal changes of them were analyzed using a conceptual runoff model. There was good agreement between the calculated monthly direct runoff and base flow using the model and the estimated one by base flow separation on the hydrograph. It was considered 2 or 3 months time lag between the shape of monthly rainfall and that of monthly base flow, indicating that change of basin storage of D-basin is not ignored. The calculated component of annual water balance, interception loss, evapotranspiration, direct runoff, base flow and change of basin storage, under the average annual rainfall were 14.4%, 12.9%, 11.7%, 60.7% and 0.3%, respectively.