

CUNHA FORESTRY HYDROLOGY RESEARCH PROJECT IN BRAZIL (IV) LOW FLOW CHARACTERISTICS OF D-BASIN.

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RESUMO

Low flow characteristics of D-basin was examined using the coefficient of river regime (ratio of 355 days runoff to 95 days runoff) and recession constant of groundwater and the results was compared with that of forested experimental watersheds in Japan. Average 275 days-runoff and 355 days-runoff, used as an index runoff of low flow segment, and averaged coefficient of river regime were 2.795 mm/day, 2.056 mm/day and 1.83, respectively. The recession constant ranged from 0.0020 to 0.0075 day⁻¹. The coefficient of river regime of Japan was 2 to 50 times as large as that of D-basin, wich were strongly influenced by the geology of basin. Especially, a characteristic common was admitted between granite basin in Japan and D-basin. A general conclusion is that the low flow of D-basin showed hight values and stability comparing with Japan, reflecting a difference of the water-yielding capacity of basin.