

CUNHA FORESTRY HYDROLOGY RESEARCH PROJECT IN BRAZIL (III) STORM RUNOFF CHARACTERISTICS OF D-BASIN.

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RESUMO

This paper reports results of the storm characteristics of D-basin in Cunha Experimental Watersheds. The relationships between storm (P; mm) and direct runoff (DR; mm) was represented the following regressions:

$$DR = 0.07P - 0.34 \quad (0 < P < 30)$$

$$DR = 0.32P - 9.08 \quad (30 \geq P)$$

The direct runoff - rainfall ratio was less than 0.2. Especially, the ratio under an amount of 30 mm storm was almost as same as the areal ratio of humidity area to total basin, indicating that the humidity area generated stormflow as a source area. The runoff coefficient of Rational Formula varied from 0.2 to 0.6 with rainfall quantity and intensity. But in case of a large amount of antecedent rainfall, it indicated more than 0.8. The above results show that basin storage of D-basin is excellent condition owing to the permeable soil with good infiltration.