

RELATIONS BETWEEN RAINFALL AND STREAMFLOW, STORMFLOW AND BASEFLOW OF D-WATERSHED.

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RESUMO

The relations between rainfall and streamflow, stormflow and baseflow of D-watershed, the Cunha Forestry Hydrologic Laboratory, during seven years are analyzed:

- 1- The relation of monthly rainfall and streamflow from October to September (water year) describes a loop line of counter clockwise, and monthly streamflow during the May to August, dry season, is much more than monthly rainfall during the period;
- 2- The averaged monthly stormflow ratio of the dry season and that of the rainy season are 0.044 and 0.095, respectively. The ratio under the ordinary rainfall condition shows almost as same as the ratio of marsh or saturated area to drainage area; e
- 3- There is one to three months lag time between the time series of monthly rainfall and that of monthly baseflow.

The results of stream gauging from D-watershed indicates that the coastal mountains is effective for the headwaters. The conservation of vegetation and soil in the headwaters and its extension would be available way of dealing with the problems of water management.