

A STUDY ON DIFFERENT METHODS OF ESTIMATING WATER AVAILABILITY OF A CATCHMENT

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ABSTRACT

As we know, the world's supply of fresh water is quite small compared to the enormous volumes of salt water in the oceans. There is either too much water or too little water at a given location due to the spatial variation. People face a serious problem which is shortage of water to meet the normal requirements for our daily life in the too little water areas. To solve this problem, a study of estimating water availability of a catchment is very important.

In my project, three methods of estimating water availability are introduced. They are correlation of rainfall and runoff, Thornthwaite and Mather Water Balance Model and empirical method. Furthermore, the methods are applied on Sungai Linggi catchment at Sua Betong as a case study.

Base on the results obtained from this study, Thornthwaite and Mather Water Balance Model gives the best estimation of water availability for the catchment.