

ABSTRACT

THE INFLUENCE OF FILLING THE MISSING RAINFALL DATA IN HYDROLOGY ANALYSIS TOWARD DESIGN RAINFALL (Case Study : WAY SEKAMPUNG WATERSHED)

By

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Rainfall data is the important part in hydrology analysis, so it needs to do analysis of rainfall data accurately and carefully. In the real practice it mostly found the uncomplete data because there is an empty/missing rainfall data. Because of that, it is important to do a research to analyze the influence of filling the missing rainfall data in hydrology analisys toward design rainfall.

This research is done in Way Sekampung Watershed in area of 4,999.2 km² with 28 rainfall monitoring station. In this research, the filling of the missing rainfall data used reciprocal method. The analysis is done to know the influence of filling the missing rainfall data done toward 10 rainfall station that has rainfall in highest yearly rate.

Based on the analysis result, it shows that the deviation of design rainfall occurred in scenario of filling rainfall data until five years (25%) still gives good data, the rest, the filling of rainfall data precisely will enlarge the deviation. From the analysis that has been done shows that not all the filling of rainfall data will produce better rainfall data, moreover it may cause another mistake.

Key Word : Rainfall Data, Way Sekampung Watershed (DAS Way Sekampung),
The Filling of Rainfall Data, Design Rainfall