

COMPARATIVE STUDY OF FLOOD FREQUENCY ANALYSIS ON SELECTIVE RIVERS

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ABSTRACT

Nowadays, there are a lot of floods occurred over the world such as Japan, Malaysia and Australia and other countries.. a flood can occur any time if the rainfall is exceeded the capacity of the drainage, river or reservoir that has already designed. The aim of this project is to compare flood frequency analysis of Sg. Bernam at Tanjung Malim Selangor, Sg Kulim at Ara Kuda Pulau Pinang and Sg Muda at LDG Victoria Pulau Pinang by using several methods. These methods are Gumbel's distribution, Log-Pearson Type III and Log-Normal even though there are many types of method to do estimation.

Moreover, the annual maximum value of 26 year within the 3 different catchments will use in this report and show how to calculate the discharge with return period of 25 years, 50 years, 100 years, 150 years, and 200 years. Meanwhile, the results of the methods above will be plotted on different graph paper. This is use to compare the analysis between the methods.