

ROUGH ESTIMATION OF FLOOD LEVEL FOR FLOOD CONTROL OF A DAM

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Abstract

The '98 flood is one of major disasters involving loss of life and the destruction of property in Korea and so the construction of dams may be an important measure for flood control to reduce or prevent flood damage. In this study we investigate the flood control effect at downstream when a dam called Youngwol exists at upstream of a river basin. We suggest that a simple mass interpolation technique could be used for the investigation. This technique is applied to Han river basin during '98 flood, Korea and the peak water stage are estimated for the main stations of Yeosu, Indogyo, and Jamsugyo at the downstream of Han river. As a result, when Youngwol dam exists the reduced peak water stages in each main station are estimated as 1.08m, 0.87m, and 1.18m respectively.