

UNDERSTANDING COMMONLY USED HYDROLOGIC DESIGN METHODOLOGIES AND THEIR IMPACTS ON ESTIMATED FLOOD DISCHARGES IN SAN DIEGO COUNTY

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The objective of my research is to analyze a watershed using recommended design criterion for the 100-year flood. The analysis is based on an existing watershed in San Diego County using hydrologic design methods commonly used throughout the United States. Firstly, several hydrology and storm water manuals were collected and most commonly used design methods were determined. Secondly, spatial data for the San Diego River watershed was collected, processed and the selected modeling systems were applied. Lastly, estimated flood flows from model were compared over a range of model inputs. This study explored commonly used methodologies and their impact on flood discharges in San Diego County.