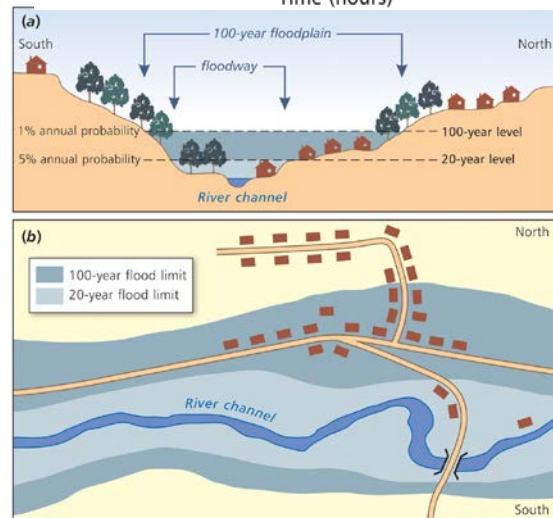
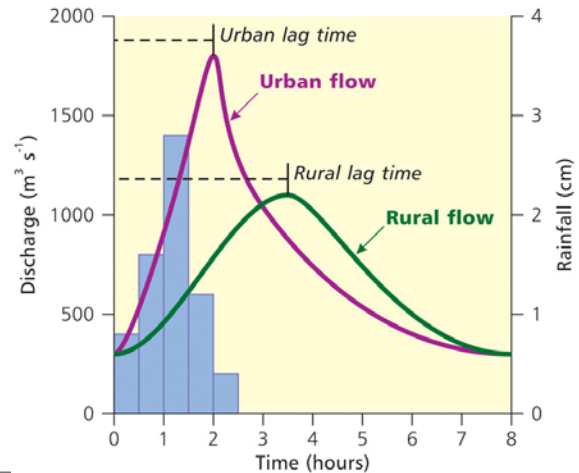


國立臺北大學自然資源與環境管理研究所
102 學年度第一學期『環境工程科學概論』(在職專班)

課程講義(8)：水文學概要
Introduction to Hydrology

- FUNDAMENTALS OF HYDROLOGY
 - Hydrologic Cycle
 - Watershed or River Basin
 - Hydrograph: IDF
 - Return Period and Flood Frequency
- HYDROLOGIC PHENOMENA
 - Precipitation: 雨(Rain)、雪(Snow)、霜(Frost)、露(Dew)、雹(Hail)、霰(Sleet)、濛(Drizzle)、冰雨(Glaze)等
 - Evaporation and Evapotranspiration
 - Infiltration => Groundwater
 - Streamflow => Open Channel
- FLOOD AND DEBRIS FLOW
 - Return Period and Frequency Year
 - Flood Plain and Hazard Zone
 - Flood Control/Mitigation Measures
 - 蓄洪(蓄水庫/池)、滯洪(滯洪池、游水池)、疏洪(水道疏浚)、分洪(分水道或疏洪道)、束洪(河堤)、抗洪(水閘、插板、墊高)及避洪(疏散)。
 - References (科學發展月刊)
 - ⇒ [水文循環與洪水; 豪雨造成的土石流](#)
 - ⇒ [台灣豪雨洪水的古往今來](#)
 - ⇒ [災害潛勢資料; 面對水患新思維](#)
 - ⇒ [百年滄桑話水利—從何處來向何處去](#)
 - [國家災害防救科技中心-災害潛勢地圖](#)
 - ⇒ 坡地災害潛勢地圖、淹水潛勢地圖
- OTHER CONSIDERATIONS
 - Extremes, Exceedance of Violation
 - ⇒ Statistics of Extremes
 - ⇒ Order Statistics
 - Debris Flow, Land Subsidence, Coastal Flood, Wetland and Constructed Wetland



Jemez River System Flood Frequency

