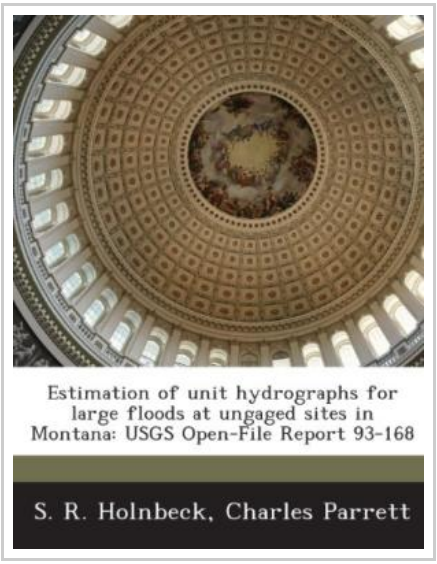


DOWNLOAD

# Estimation of Unit Hydrographs for Large Floods at Ungaged Sites in Montana: Usgs Open-File Report 93-168

By S R Holnbeck, Charles Parrett

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.Methods were developed for estimating unit hydro- graphs at ungaged sites in Montana using either the Clark or dimensionless unit-hydrograph method. Flood hydrograph data for 26 U.S. Geological Survey streamflow-gaging stations and rainfall data were used together with a rainfall-runoff simulation model (HEC-1) to derive unit hydrographs and important unit-hydrograph variables. A multiple- regression analysis relating four unit-hydrograph variables (time of concentration, basin-storage coefficient, Snyder standard lag, and dimensionless peak discharge) to basin characteristics showed a significant (95 percent confidence level) relation only with drainage area for time of concentration, basin-storage coefficient, and Snyder standard lag. In the regression relation for dimensionless peak discharge, the only significant basin characteristic was basin factor, a function of channel length, distance from the basin centroid to mouth, and channel slope. An alternative equation based only on drainage area was almost as reliable. Regression equations for estimating basin-storage coefficient and dimensionless peak discharge had coefficients of determination (r sq) ranging from 0.19 to 0.47. An average dimensionless unit hydrograph was determined for the 26 sites, and a method was developed for adjusting...

### *Reviews*

*It in a single of my personal favorite pdf. It is one of the most awesome pdf we have read. I found out this book from my dad and i suggested this pdf to understand.*

-- ***Dr. Kaelyn Pfannerstill V***

*This composed book is great. It really is basic but surprises from the fifty percent from the publication. Your way of life period is going to be convert when you total looking at this publication.*

-- ***Tanya Bernier***