



Estimating Basin Lagtime and Hydrograph-Timing Indexes Used to Characterize Stormflows for Runoff-Quality Analysis: Usgs Scientific Investigations Report 2012-5110 (Paperback)

By Gregory E Granato

Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.A nationwide study to better define triangular-hydrograph statistics for use with runoff-quality and flood-flow studies was done by the U.S. Geological Survey (USGS) in cooperation with the Federal Highway Administration. Although the triangular hydrograph is a simple linear approximation, the cumulative distribution of stormflow with a triangular hydrograph is a curvilinear S-curve that closely approximates the cumulative distribution of stormflows from measured data. The temporal distribution of flow within a runoff event can be estimated using the basin lagtime, (which is the time from the centroid of rainfall excess to the centroid of the corresponding runoff hydrograph) and the hydrograph recession ratio (which is the ratio of the duration of the falling limb to the rising limb of the hydrograph). This report documents results of the study, methods used to estimate the variables, and electronic files that facilitate calculation of variables. Ten viable multiple-linear regression equations were developed to estimate basin lagtimes from readily determined drainage basin properties using data published in 37 stormflow studies. Regression equations using the basin lag factor (BLE, which is a variable calculated...

Reviews

This pdf is so gripping and fascinating. It really is rally intriguing through looking at period of time. I am pleased to tell you that this is basically the very best publication we have go through within my personal lifestyle and might be he very best ebook for ever.

-- **Eleonore Muller DVM**

Very useful to all of class of individuals. This really is for all those who statte there had not been a worthy of looking at. I am just very happy to let you know that here is the finest ebook i have got go through within my individual daily life and might be he finest ebook for actually.

-- **Delores Mitchell PhD**