



Analysis of Monthly Flow Duration Curves

E. Baltas

ARISTOTLE UNIVERSITY OF THESSALONIKI, Department of Hydraulics, Soil Science and Agricultural Engineering,
THESSALONIKI, Greece (BALTAS@AGRO.AUTH.GR)

A technique is developed in the present study for the estimation of water availability at ungaged river basins. The study area is the western and northwestern Greece that is a hydrologically homogenous region, characterized by great rainfall depth and high water potential. The flow duration curves constitute an important tool for the estimation of the hydropower potential, which depends on the water availability and on the hydraulic head. The morphoclimatic characteristics of the drainage basins were used as input information for the regionalization of the monthly flow-duration curves. After the calibration of the regional model, a validation followed at three sites for the estimation of the accuracy of the technique.