Effects of some watershed characteristics on water yield

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Understanding the relationship between water yield and watershed characteristics can be important to estimate the amount of water production from watersheds. This paper presents the effect of some watershed characteristics on water yield based on one year measurements realized at 29 watersheds. These are relatively small watersheds, area of which changes between 8.6-449.3 ha and takes place at the mountainous and forested areas around Düzce city in Turkey. Watershed size, elevation, circularity and elongation ratios are found as effective variables on water yield. More researches on different ecological regions with different point of views are needed for widely usage of these kind of models.