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Determination of Climate Changes by Using the Trend Analysis

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Abstract

One of the important issues that affect the life is climate variation. Turkey is sensitive area to climate variation in the world. The purpose of this study is to evaluate the regional impact of climate variations on the water resources in Bilecik, Turkey.

Bilecik is located at the northwest part of Turkey and the junction of Marmara, Black Sea, Aegean and Central Anatolia regions. It is surrounded by Sakarya, Bursa, Eskisehir and Kutahya. In this study, the impact of Bilecik water resources of regional climate variables is investigated by using the trend analysis. Trend analysis is composed statistical analysis techniques including regression analysis and Mann-Kendall method. These analysis techniques have applied to the some of meteorological variables. Finally, it is presented that the trend analysis has practical and make it advantages for the assessed climate variables.

Keywords: Climate, regional climate variables, trend analysis, Bilecik, Turkey

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