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Climate change and its effect on rainfall quantities in Amman-basin

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This research has been done to detect the new trend in weather and evaluate the influence of climate change on the rainfall quantities in Amman basin. The basin has been chosen specifically for this research because of its importance as a groundwater supply for Amman city, which is the most populated city in Kingdom of Jordan. Three metrological station data has been used that separated in the catchment area. The results from this research deduce that the mean annual precipitation over the catchment area is reducing 25% over 47 years. Also, this research found there was an increase in the evaporation rate about 2%. Temperature also increased, in the long term, average temperature increased around 4% while in the upper limit long term increase 2%, which illustrate the recession of rainfall amount that falling in the catchment area.

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