

Climate change and Water Resources in Nineveh Governorate

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Abstract

This paper focuses on climate change in Nineveh based on climatological data records in this governorate. The general trend of the temperature appeared to surpass its average mean. The severe hot days also increased in summer, the precipitation in general deceased practically in the last two decades, irregular and delayed distribution of the rain, as well as drought cycles did occur.

The 2008 year was very arid, the drought intensity amounted (-2.48) according to SPI standard .The dust storm increased per frequency and intensity and got unusual number (32 storms +71 days of intense dust). Crops demands for water increased and amount its maximum at 2001. Evaporation losses from Mosul dam lake reached $70.191 * 10^6 \text{ m}^3$ at 2000. This had let to lake water quality degradation and pollution. The ground water decreases, its levels decline and its quality degrades.

All the above climatological facts had impacts on the water resources in Nineveh.

Keywords: Water resources- climate charge in Nineveh

For the abstract in Arabic see pages (53-65).

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