



ثورة حمزة بن عبدالمطلب بجدة

# Temperature and its Impact on the Relative Humidity in the Last Quarter of 2015 in Jeddah

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## Abstract

the main objective of this research is to know the effect of temperature on the relative humidity in the city of Jeddah. Results showed the existence of a clear impact of heat on humidity moisture will rise as temperatures rise and fall with the fall, but he nevertheless there are cases with low temperatures and rising humidity.

## Research question

- Q1. Does the temperature affect the relative humidity?
- Q 2. Is there relation between temperature and relative humidity?

## Hypothesis

First hypothesis: there is a relation between the temperature and relative humidity second hypothesis: there are factors affecting the relative humidity degree.

## Research Methods

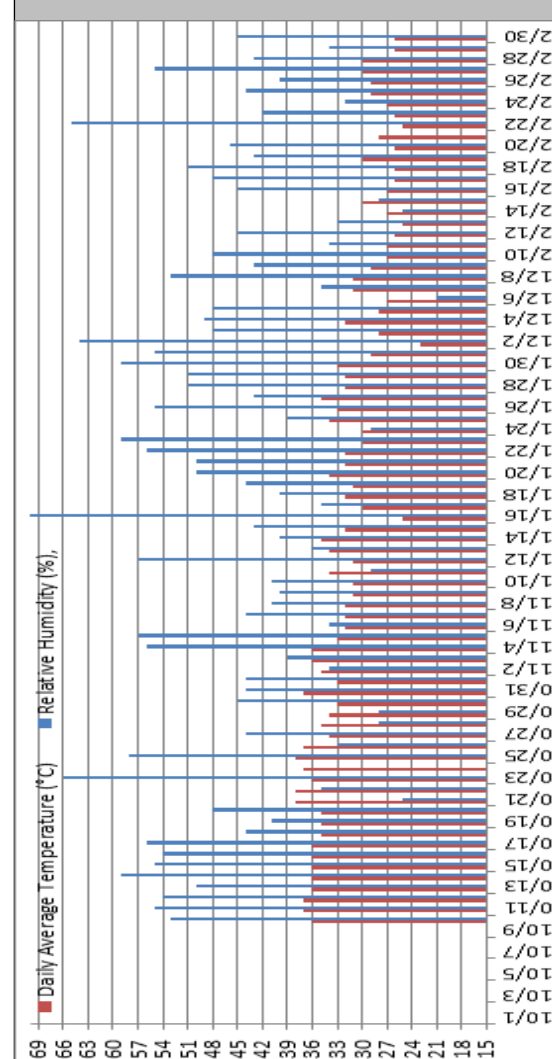
### Materials and method:

During the last quarter of 2015, We use the data that have been investigated about the temperature and relative humidity, with focus on October, November and December, through which we can accurately recognize the effect of temperature on the relative humidity in Jeddah city.



The above-mentioned will take place using a graph to illustrate the relationship between temperature and relative humidity during the said period.

## Globe Data



## Conclusions

### Results discussion:

From the graph covering the data included in the GLOBE Program, it is obviously that there is the impact of temperature on the relative humidity and it is proven that high temperature leads to increasing humidity, under increase of evaporation of water from the surface of the sea and in turn humidity rises, but in rare cases we have adverse result, where under low temperature we find that is humidity is high, this means that there are factors affecting humidity other than temperature, one of which is the movement of wind and atmospheric pressure. In addition, rising may be as a result of mistakes in taking measurements, therefore we recommend conducting a long-term study together with using all the appropriate factors, which in turn affect the relative humidity.