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MATH 120

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**Was the summer of 2015 warmer or colder that the average summer in Mankato, MN?**

I believe that the average temperatures for the summer of 2015 were a little warmer than the previous years. Although the days did not seem as warm overall the averages combined seem to be a little more than the years before. In the summers before there could have been a few cooler days which would end up bringing the averages down.

 In the years between 1991 and 2012 the warmest month in Mankato, MN was July with the average being 80 degrees Fahrenheit this was found on the website: weatherspark.com. The coldest average for that time and month was 63 degrees Fahrenheit. This makes the most sense that July would be the warmest because it is in the middle of summer and tends to have the warmest day.

 For 2015 the warmest month in Mankato, MN was also July with an average temperature of 83 degrees Fahrenheit this was found on the website: weather.com. The coldest average for that time and month was 62 degrees Fahrenheit. This shows that the highest temperatures are a few degrees higher than the years between 1991 and 2012.

 The averages are shown in the graphs below. The graph trend shows a bell curve which is expected for temperatures throughout the year. Since the temperatures are averages this is accurate information because it takes the high ends and low ends of temperatures into account. I would say that my hypothesis is correct because on the graphs it shows the average to be little higher in the summer of 2015.

1991-2012 graph