

Surfs-Up

Project Overview

W.Avy would like to know about temperature trends before opening the surf and ice cream shop in Oahu, Hawaii. Specifically, he wants temperature data for the months of June and December to determine if the surf and ice cream shop business is sustainable year-round.

Purpose: -

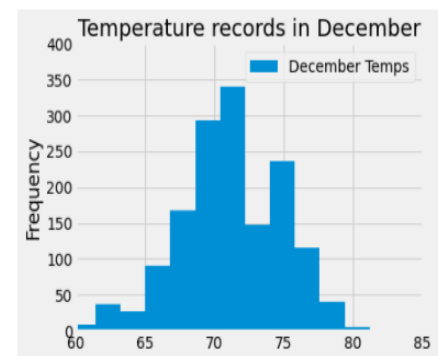
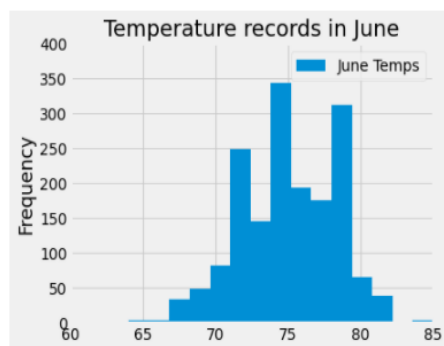
- To determine the summary statistic for June and December.

Results: -

- ✓ Summary statistics for the months of June and December are as follows: -

June Temps	
count	1700.000000
mean	74.944118
std	3.257417
min	64.000000
25%	73.000000
50%	75.000000
75%	77.000000
max	85.000000

December Temps	
count	1517.000000
mean	71.041529
std	3.745920
min	56.000000
25%	69.000000
50%	71.000000
75%	74.000000
max	83.000000



Based on the summary statistics, June (1700) has higher number of temperature observations compared to December. Similarly, the mean temperature was slightly higher in June. Further analysis on precipitation was conducted for the months of June and December to determine the amount of rain. The table below shows the average and maximum precipitations was higher in December than June.

June_prdp	
count	1574.000000
mean	0.136360
std	0.335731
min	0.000000
25%	0.000000
50%	0.020000
75%	0.120000
max	4.430000

December_prdp	
count	1405.000000
mean	0.216819
std	0.541399
min	0.000000
25%	0.000000
50%	0.030000
75%	0.150000
max	6.420000

Summary: - based on the above analysis on temperature, precipitation, and visualization the average, maximum and minimum results were almost similar for two months, it looks like the surf and ice cream shop business is sustainable year-round. But, further analysis or data are required to see the significance level.