**What weather variables would be best in determining top vacation property investment locations**?

Temperature: Temperature is a key factor for many vacationers, particularly those looking to escape cold or hot climates. The average temperature during the high season, as well as the temperature range throughout the day, could be important.

Precipitation: Precipitation levels can impact outdoor activities, such as beach-going or hiking, so it is important to consider the amount and timing of rainfall. For example, a beach destination with a high likelihood of rain during the summer months may not be as desirable as a drier location.

Humidity: High humidity levels can make temperatures feel more extreme and may be uncomfortable for some vacationers. Consider the average humidity levels during the high season and whether the rental property has air conditioning to help combat humidity.

Wind: Wind speeds can impact outdoor activities like boating or surfing and may also impact the perceived temperature. It may be important to consider wind conditions during the high season.

Sunlight: Sunlight levels can impact the appeal of a destination, particularly for those looking for a sunny vacation. Consider the average number of sunny days during the high season.

Severe weather: It is important to consider the risk of severe weather events such as hurricanes, tornadoes, or wildfires. These events can impact safety and vacation plans, so it is important to research historical data and warning systems in place.

Of these factors which do we want to focus on? What is out main question? What are we trying to answer?

**Where can we find data that contains these variables?**

**OpenWeather**

<https://openweathermap.org/api>

I think this would be the easiest for us to use since we are already familiar with this site. It offers most of the variables that we will need. I don’t think we should over think what we are trying to do. I went down so many rabbit

National Oceanic and Atmospheric Administration (NOAA)

<https://www.ncei.noaa.gov/access/metadatalanding/search>

World Meteorological Organization (WMO)

<https://worldweather.wmo.int/en/home.html>

Weather Underground: Weather Underground

<https://www.wunderground.com/history>

**What other factors would make a good investment property investment?**

1. Location: The location of the property is one of the most important factors to consider. Look for a property in a popular vacation destination with high demand for short-term rentals. Proximity to major tourist attractions, beaches, and outdoor recreation areas can also be a plus.
2. Property condition: Consider the age and condition of the property. A well-maintained property with updated appliances, fixtures, and furnishings is more likely to attract renters and generate higher rental income.
3. Tourism demand and supply: This includes variables such as the number of visitors, number of tourism businesses, and occupancy rates
4. Tourism demand and supply: This includes variables such as the number of visitors, number of tourism businesses, and occupancy rates

**Do we want to consider any of these factors?**

If we do I think we should reach out to Anthony and see what sites he suggests. I have been going down rabbit holes looking at this stuff.

**Overall thought about the project.**

What question are we trying to answer?

What does the project look like over all?

What is the flow of the project?

What types of coding do we want?

How are we going to display our analysis?

Web page, grafts, interactive options, mapping(if mapping what kind and what data do we want displayed?

Do we want to do something similar what we saw for the Gekkos Insurance site?

My thoughts over all are we do not need to reinvent the wheel and go down lots of rabbit holes. I have done way to much of that all ready and has driven me nuts.

I like the idea of kind of working our way through the bootcamp.

For the weather data we can use the Weather API in module 6. It shows the use of API’s, python, and some mapping skills (MapBox API).

Depending on where we end up getting data if there is more than one file, we can use the Quick DBD website to show how the data is connect and the way it can be combined and pulled

From this data we can plot temperatures, humidity, etc.

This can also be displayed with different graph – what graphs do we want to use. Do we want to use Tableau or something else?

After the data is generated it can be hosted on AWS. We can also store images on there as well.

Use Colab to create the code we need. In Colab there is the ability to share notebooks

Using Big data use the machine learning skills we have learned.