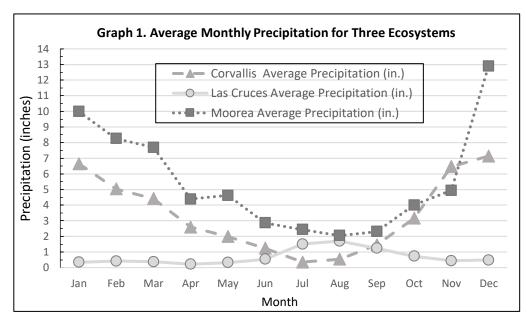
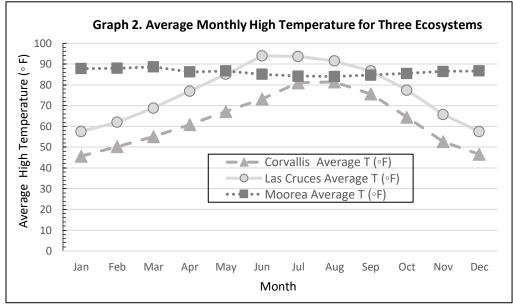
## **Analyzing Precipitation and Temperature Data**

In the book *One Day in the Desert* by Anna Keener, Pen Pals Mariana, Kupe, and Ellie, live in three very different ecosystems. Mariana lives in a desert ecosystem in Las Cruces, New Mexico. Kupe lives in Moorea, French Polynesia, a tropical volcanic island. Ellie lives in Corvallis, Oregon, an evergreen pine forest ecosystem in the Pacific Northwest.



Examine the precipitation and temperature graphs from the locations where Mariana, Kupe, and Ellie live and answer the questions on pages 2-3.





Precipitation and temperature data are from the National Oceanic and Atmospheric Administration's (NOAA) Climate at a Glance website (www.ncdc.noaa.gov/cag/city/time-series) and Weather-and-climate.com.

1.	Use Graph 1 to <u>estimate</u> the total precipitation received in one year for each location.			
	Las Cruces receives a total of		inches of precipitation per year.	
	Corvallis receives a total of		inches of precipitation per year.	
	Moorea receives a total of		inches of precipitation per year.	
2.	Which location has the most total precipitation?			
3.	What is the driest month for each location? What is the wettest month for each location?			
	Las Cruces	Driest Month	Wettest Month	
	Corvallis	Driest Month	Wettest Month	
	Moorea	Driest Month	Wettest Month	
4.	What is the hottest month for each location? What is the coolest month for each location			
	Las Cruces	Hottest Month	Coolest Month	
	Corvallis	Hottest Month	Coolest Month	
	Moorea	Hottest Month	Coolest Month	
5.	What pattern do you notice in the temperature data for Moorea? How does this pattern compare to the temperature data for Las Cruces and Corvallis?			

6.	You are planning a May vacation to go visit either Mariana, Kupe, or Ellie. Based on the types of temperatures and precipitation levels you like, where would you go? Use the data from the graphs to explain your answer.			
7.	Mariana and Ellie would love to meet each other in person over the summer. They we like to visit the Grand Canyon and stay in Flagstaff, Arizona where the average high temperature in June is 80 degrees F.			
	<ul><li>a. Plot the Flagstaff, Arizona June temperature on Graph 2.</li><li>b. Based on the graph, answer the following questions:</li></ul>			
	The temperature in Flagstaff is (hotter or colder) than Las Cruces in June			
	The temperature in Flagstaff is (hotter or colder) than Corvallis in June.			
8.	Based on the graphs, what would you expect the average high temperature will be <a href="month">this</a> <a href="month">month</a> in Las Cruces, New Mexico? How much rain would you expect this month in Las Cruces?  Average High Temperature°F			
	Monthly Precipitation inches			