

Climatogram Lab

1. A climatogram is a graphical representation of a location's basic climate. It displays data for 2 variables: monthly average temperature and monthly average precipitation. This can help identify the type of biome.
2. A. Temperate forest the temperature starts off low in the beginning of the year then increases until July then decrease for the rest of the year. Precipitation remains roughly the same throughout the year, receiving no more than 11.2cm of rain and receiving no less than 6.4cm of rain.

B. Temperate woodland and shrubland the temperature starts at 10.6 in January and slowly increases then stops at April then decreases for the rest of the year. The precipitation starts at 9.1cm of rain then decreases up until April 0.5cm of rain then starts to increase for the rest of the year.

C. Tropical RainForest the temperature is generally high throughout the year(23.3C - 25.6C). The precipitation is generally high throughout the year.

D. Desert the temperature starts off low and then increases, highest temperatures during the months of July and August then decreases after august. Little precipitation throughout the year.

E. Middle latitude Desert : The temperature starts at -3.9 in January and increases upto 22.8 in July and decreases towards the end of the year. Temperature is at its highest during the summer months. Precipitation is relatively low starting at 2.3cm and increasing upto 5.3 cm in June .

F. Savanna: The temperature starts at 19.4 and decreases during the months of May, June, July, and August and increases for the remainder of the year. Precipitation starts

low and increases upto 14.7cm in June and is highest during summer months and is low the rest of the year.

G.Chaparral: the temperature starts at -22.2C at the beginning of the year and increases to 5C in April then decreases for the rest of the year. Minimal precipitation throughout the year.

H. Subtropical desert:the temperature starts at 11.7C and increases until 28.3C in April then decreases for the rest of the year. The precipitation remains no more than 8.9cm and no less than 3.6cm

I. Temperate deciduous forest: the temperature starts at 23.3C then it decreases to 8.3C in July then it increases for the rest of the year. The precipitation starts at 5.1cm then decreases to 0.9cm in July then increase for the rest of the year.

J. Middle-latitude grassland- towards the middle of the year the precipitation increases as well as the temperature.

K.Taiga Temperature is low in the beginning of the year and then increases towards the middle of the year and then decreases near the end of the year, same with precipitation

L. Desert Temperature starts lower but increases as the middle of the year occurs then decreases towards the end. Minimal precipitation throughout the year.

Questions & Answers

1. Which of the known biome climatograms closely resembles the San Francisco?

Unknown G(Chaparral).

- a. In what ways were they similar? They have similar cm rain & temp C and there both Chaparral biome.

- b. In what ways were they different? San Francisco has low precipitation in summer.
- c. Would you consider them to be the same biome? Explain? No because although the biomes seem to be very similar, they may still have different temperature and precipitation.
- d. During the thirty year period used for the figures in the San Francisco climatogram there were four drought periods. How would this affect the appearance of the climatogram? There will be less precipitation, so will be very small bars are no bars.

2. How are the Tundra and Desert similar? Different? The Tundra and the Desert receive little precipitation. But the Tundra has low temperatures and the desert has very high temperatures.

3. How are the Tropical Rain and the Tropical Deciduous Forests similar? Different? Both have lots of different species of plants and animals and similar temperatures each month. The tropical rainforest has very humid climate with plenty of precipitation, while the Deciduous forest has less precipitation.

4. Lawrence, Kansas and Nashville, Tennessee occupy similar latitudes. Why is one found in grasslands and the other in a forest biome?

Elevation contribute to the development of different biomes.

5. How would you determine which biome are located in the southern hemisphere? If the temperature is high or if the precipitation is low or if the biome is similar to a desert.

6. Most rainfall - Tropical Rainforest. Least rainfall- Tropical Desert. The highest average temperature- Tropical Deciduous. The lowest average temperature- Tundra. The consistent year round temperature - Tropical Deciduous. The most variable year round temperature - Grasslands.