

# CLIMOGRAPHS

You will need to gather the monthly **Monthly Mean Temperature (MMT)**, which is the average of the daily means and the **Total Monthly Precipitation (TMP)**, which is the total precipitation that has fallen during that month for each of the two cities.

These 12 data cells for MMT and TMP will be needed to construct a graph to represent the year of climate data that you have collected.

We will construct a graph that has both the monthly mean temperature and total monthly precipitation on a single graph. This is called a **CLIMOGRAPH**. A climograph is a graph except that shows the long-term averages for monthly mean temperatures and total monthly precipitation – averages spanning many years.

## Assignment:

You will be constructing 2 climographs from your climate data using the long-term climate data for each city.

## Climographs Explained:

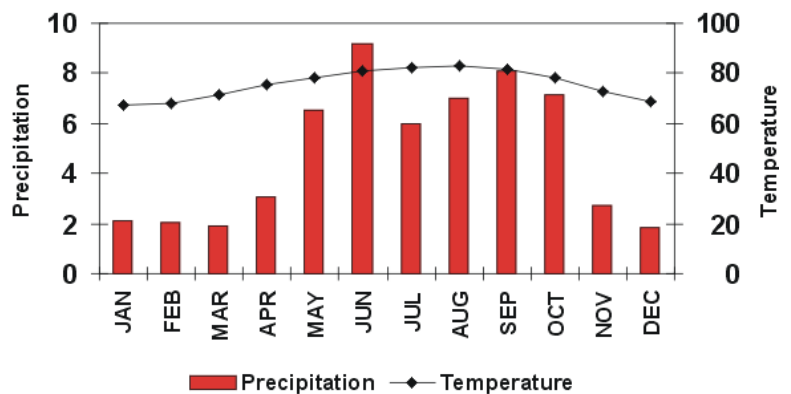
Climographs represent two sets of meteorological data in one chart, Mean Monthly Temperature and Total Monthly Precipitation.

The graph has two different Y-Axes, the precipitation on the left, and the temperature on the right.

The total monthly precipitation is shown as a bar chart, starting from the baseline (zero) and extending up to the monthly total for each month. The mean temperature is plotted as a line chart. The mean monthly temperature for each month is plotted as a large dot, and then lines are drawn connecting them to create a smooth curve of mean temperatures.

Since we are using the same scales on all climographs, this makes it very easy to compare and analyze the charts in both a numerical and a graphical manner.

## Miami, Florida



<b>Rome, Italy</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
Average high °F	53.4	55.4	59.4	63.9	73	80.4	86.5	87.1	79.7	70.5	60.6	54.7
Average low °F	37.6	38.3	41.4	45.5	52.9	59.5	64.4	64.9	59.4	52.3	44.4	39.6
Total Precip In	2.64	2.87	2.28	3.19	2.09	1.34	0.75	1.46	2.87	4.45	4.53	3.19
<b>Boston, Ma.</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
Average high °F	36.3	39.2	45.9	56.1	66.4	76.4	81.8	80.1	72.8	61.9	52	41.7
Average low °F	22.3	24.8	31.2	40.7	50	59.6	65.5	64.7	57.5	46.6	38.1	28.3
Total Precip In	3.36	3.25	4.32	3.74	3.48	3.68	3.43	3.29	3.44	3.94	3.99	3.78

NAME: \_\_\_\_\_

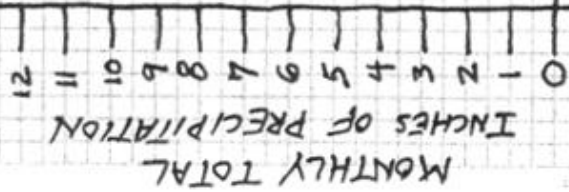
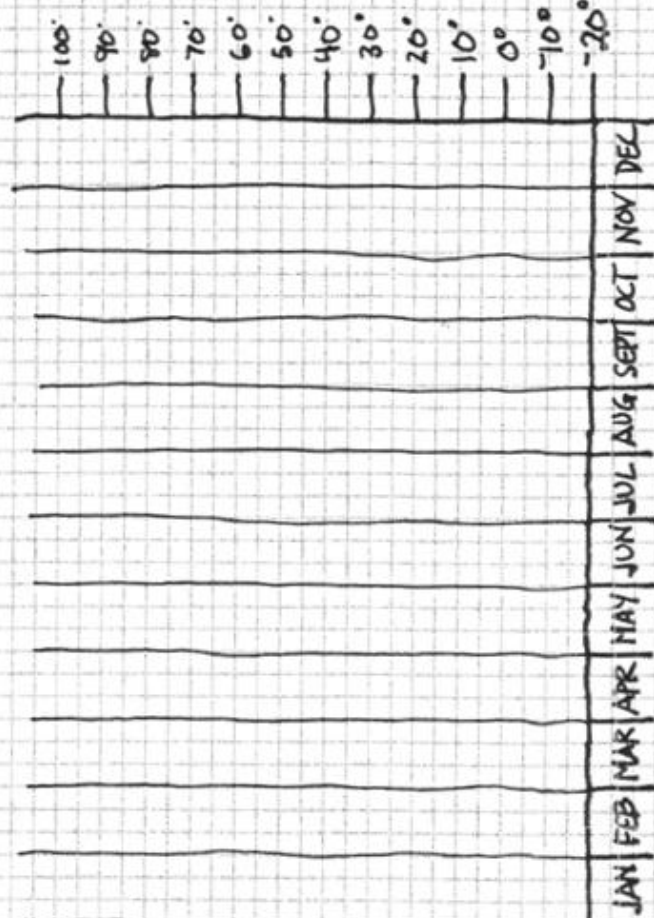
CITY: \_\_\_\_\_

DATA SET:  LONG-TERM CLIMATE DATA

DATA SET

	MEAN MONTHLY TEMP	TOTAL MONTH PRECIP
JAN		
FEB		
MAR		
APR		
MAY		
JUN		
JUL		
AUG		
SEPT		
OCT		
NOV		
DEC		

MONTHLY MEAN TEMPERATURE  
IN FAHRENHEIT



CLIMOGRAPH

NAME: \_\_\_\_\_

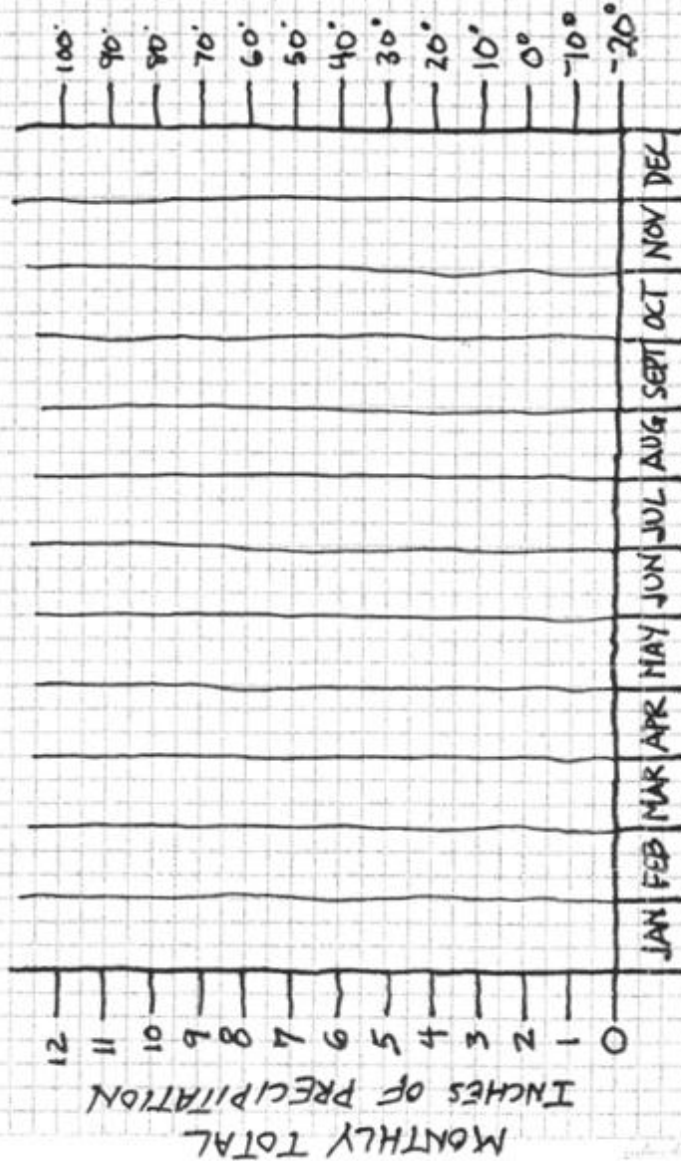
CITY: \_\_\_\_\_

DATA SET:  LONG-TERM CLIMATE DATA

DATA SET

	MEAN MONTHLY TEMP	TOTAL MONTHLY PRECIP
JAN		
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MONTHLY MEAN TEMPERATURE  
IN FAHRENHEIT



CLIMOGRAPH