# Drawing a Climate Graph

Highlight the table that contains the maximum and minimum temperature data and months by clicking and dragging.

| Months	Average Temp. °C	Average Rain mm
Jan	13	93
Feb	13	59
Mar	14	33
Apr	16	15
May	20	6
Jun	24	17
Jul	27	0
Aug	27	5
Sep	24	144
Oct	22	68
Nov	18	74
Dec	15	83

Click on **Insert** on the top menu bar, then click on **Object**, then select **Microsoft Graph Chart**. This opens a chart wizard, a set of very helpful instructions.

Document1 - Datasheet
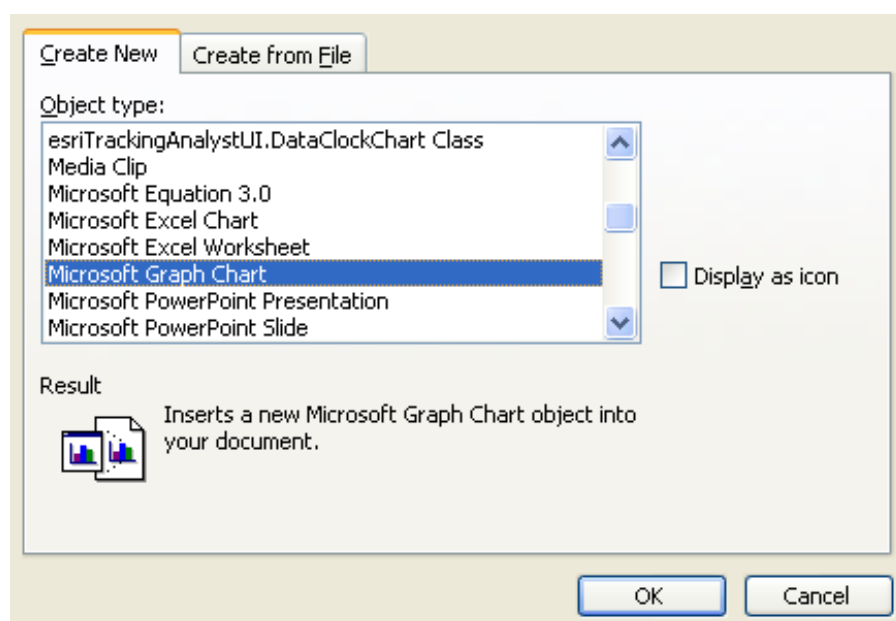
	Months	A Average T	B Average Rain mm	C	D	E	F	G
4	Apr	16	15					
5	May	20	6					
6	Jun	24	17					
7	Jul	27	0					
8	Aug	27	5					
9	Sep	24	144					
10	Oct	22	68					
11	Nov	18	74					
12	Dec	15	83					
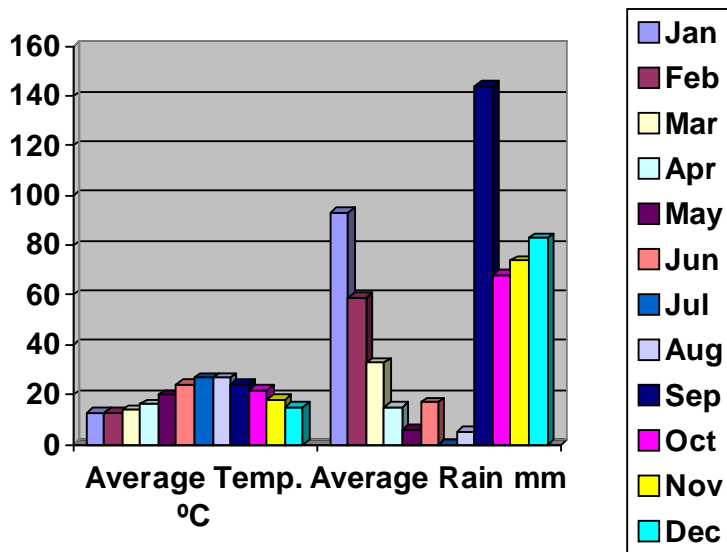
Click on **Chart** on the menu bar and select **Chart Type**. The chart wizard will open. Click on the **Custom Types** tab, scroll down, and click **Line-Column on 2 Axes**. Click next.
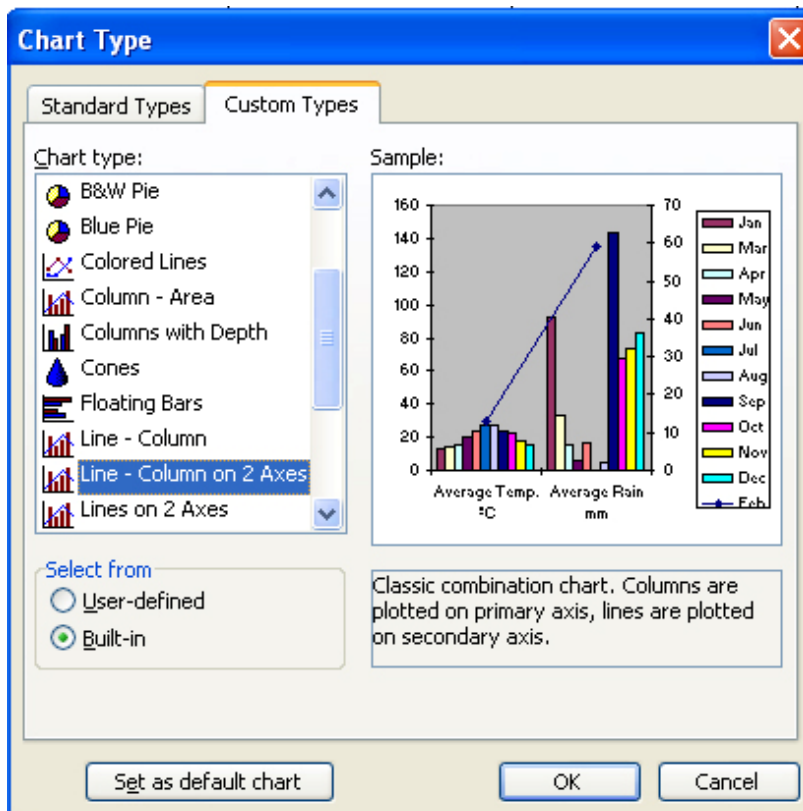
Click on **Data** in the menu bar and select **Series in Columns**. Make sure your graph has a line graph and a bar graph. Click next. You can then resize the box which the graph is in by clicking and dragging on the small boxes around the edge.
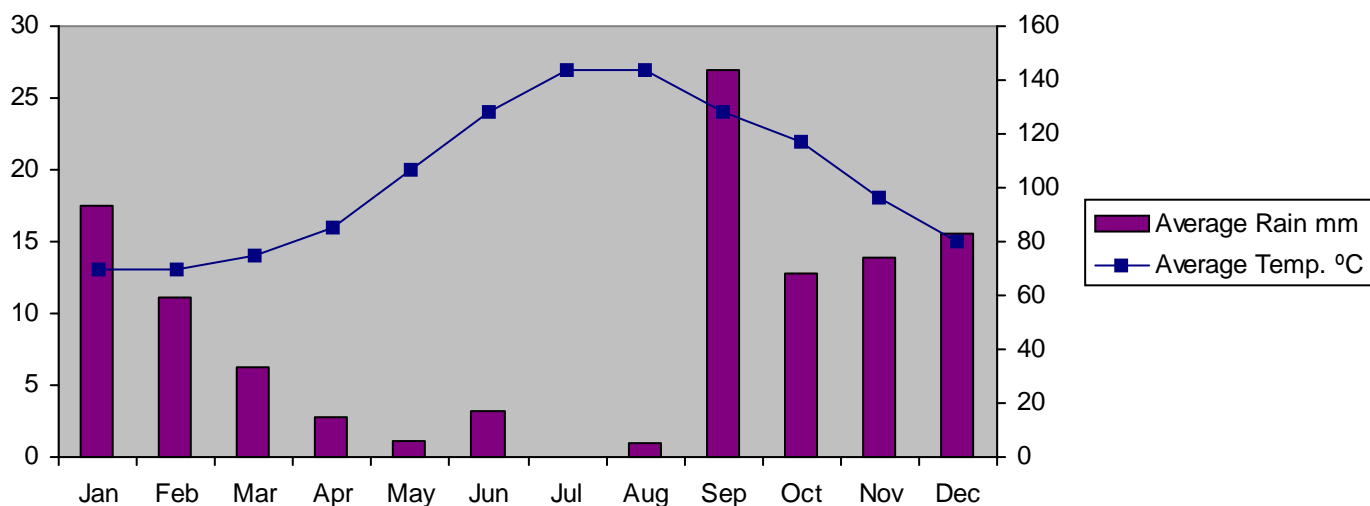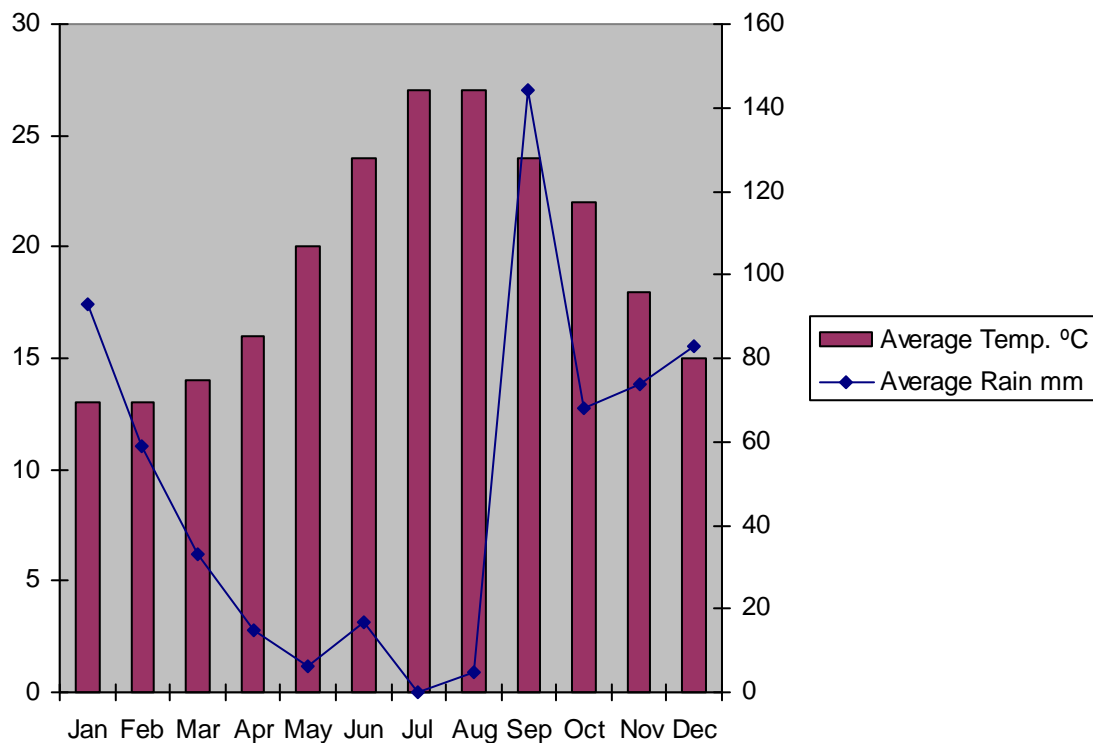

We now need to change the rainfall data into a bar graph and that of temperature into a line graph. To do this we must first right click on the line , select **Chart type** and then click on column. Repeat the same process this time replacing the column with the line graph.

Click on one of the months to reduce the font size so that all months will be visible. From the **Format Axis window**, select **Font** and reduce the font size to 8.
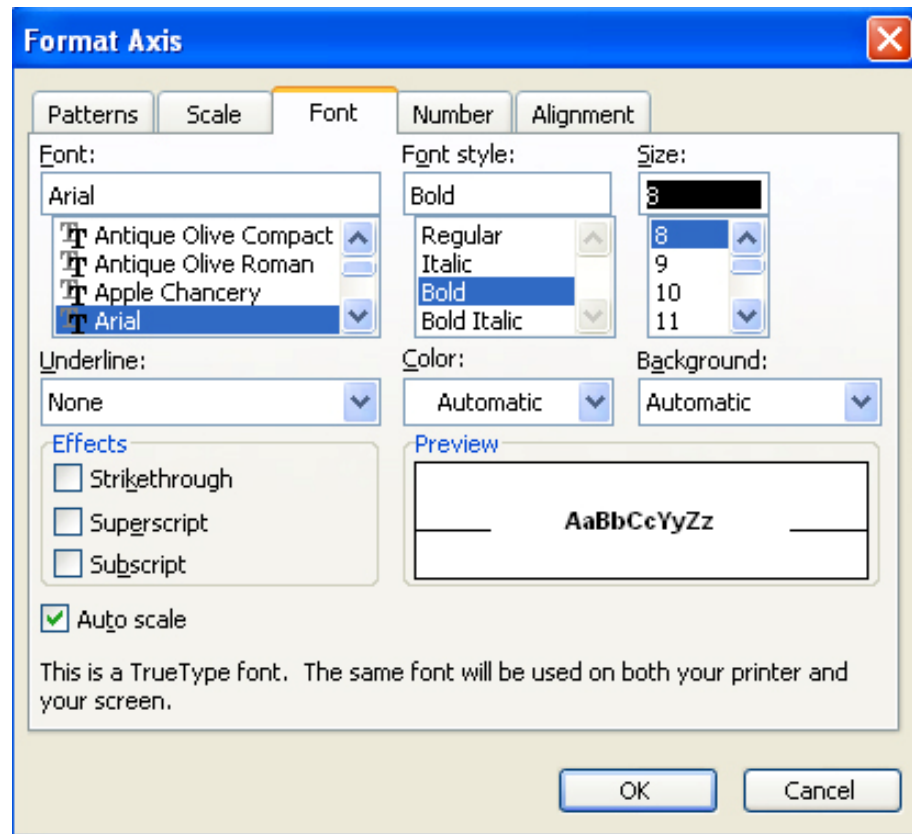

Right click on one of the temperature readings. In the **Format Axis** window change the font size to 12. On the same window click on **Patterns**. Tick the Outside button in the Minor tick mark type. You have to repeat the process on both axes.
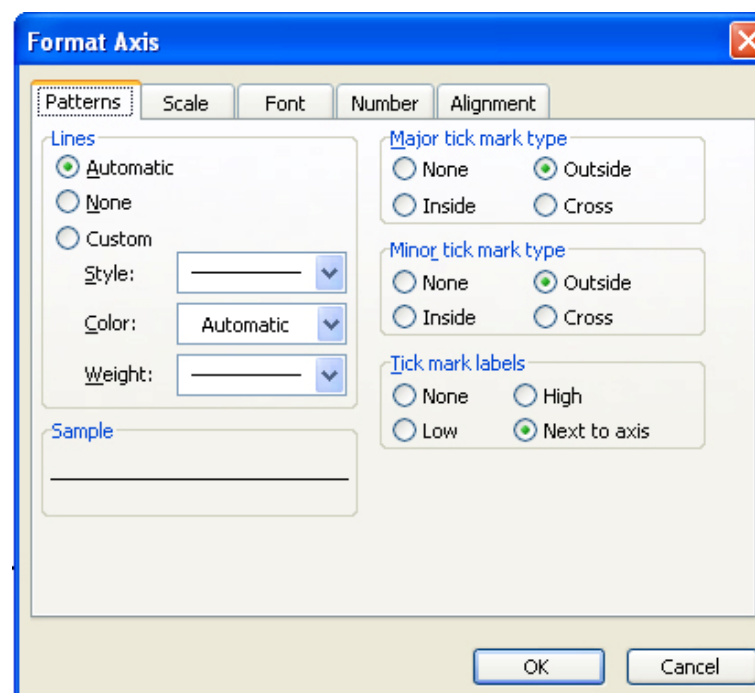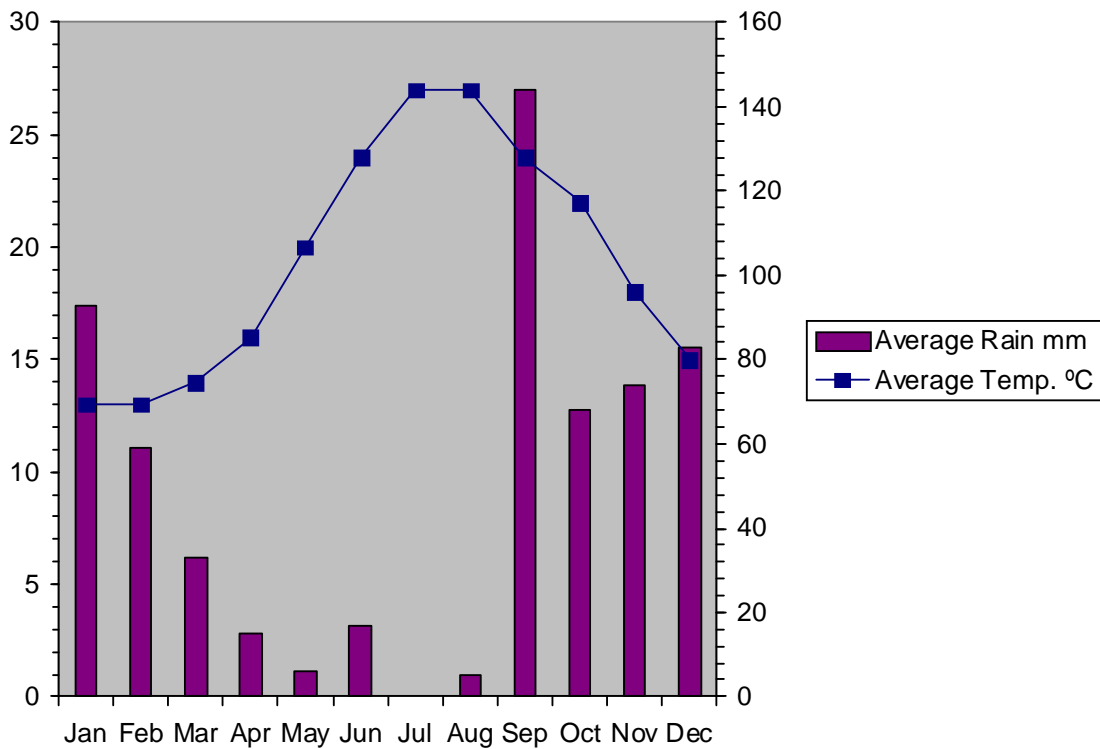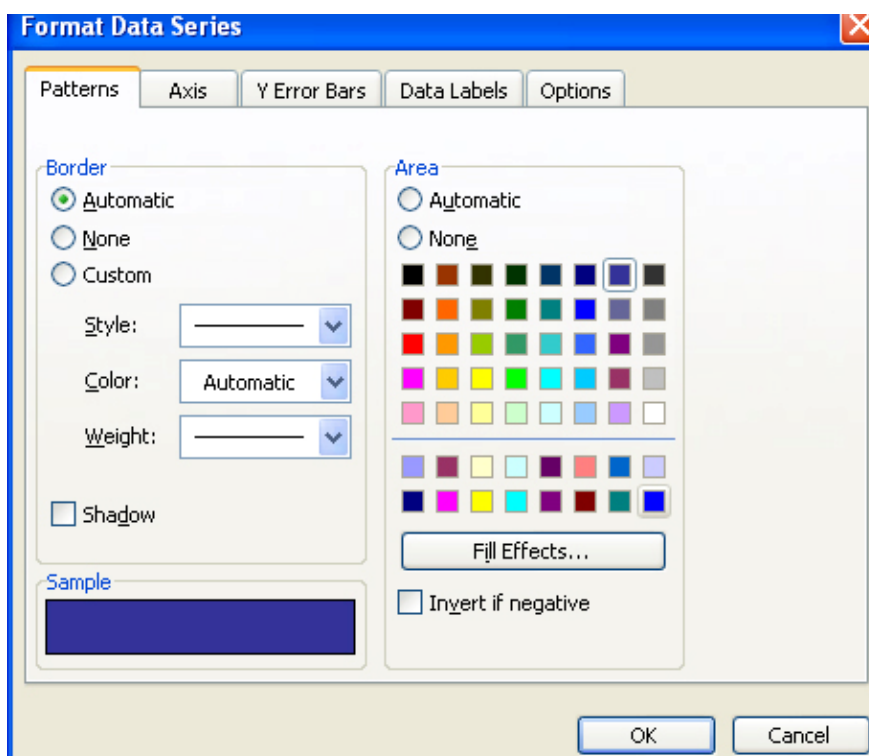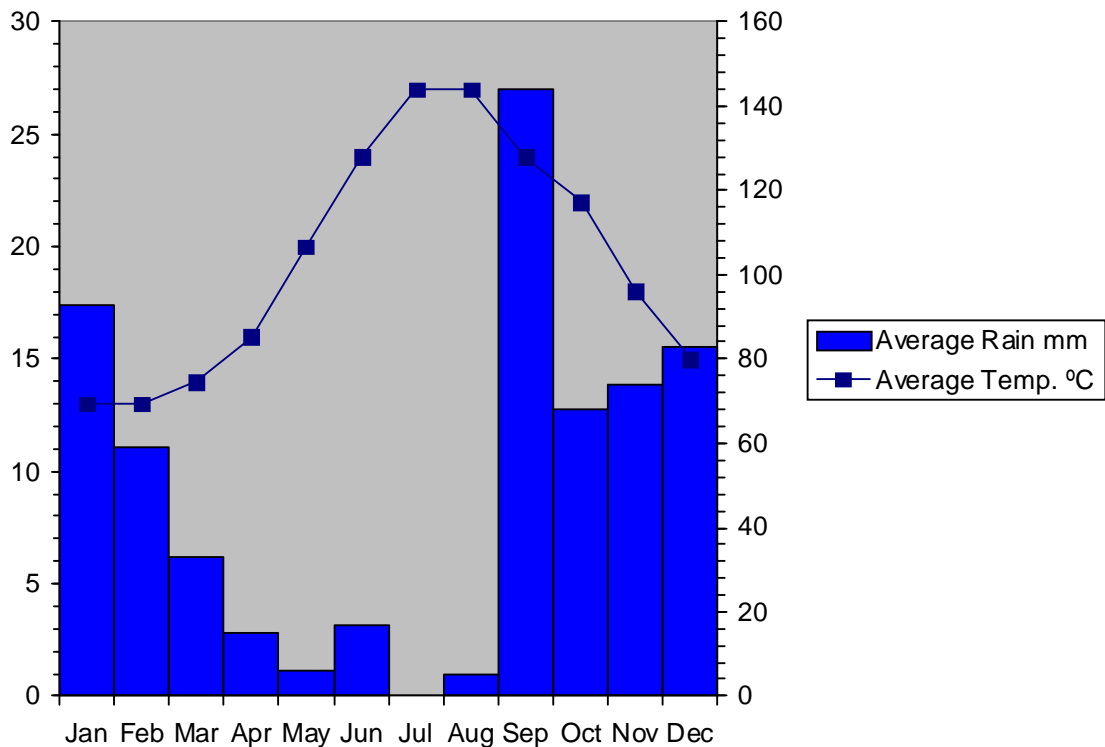
Now we will change the thickness of the bars on the graph. Right click on any column and choose "Format Data Point" In the Options window reduce the width gap to 0.
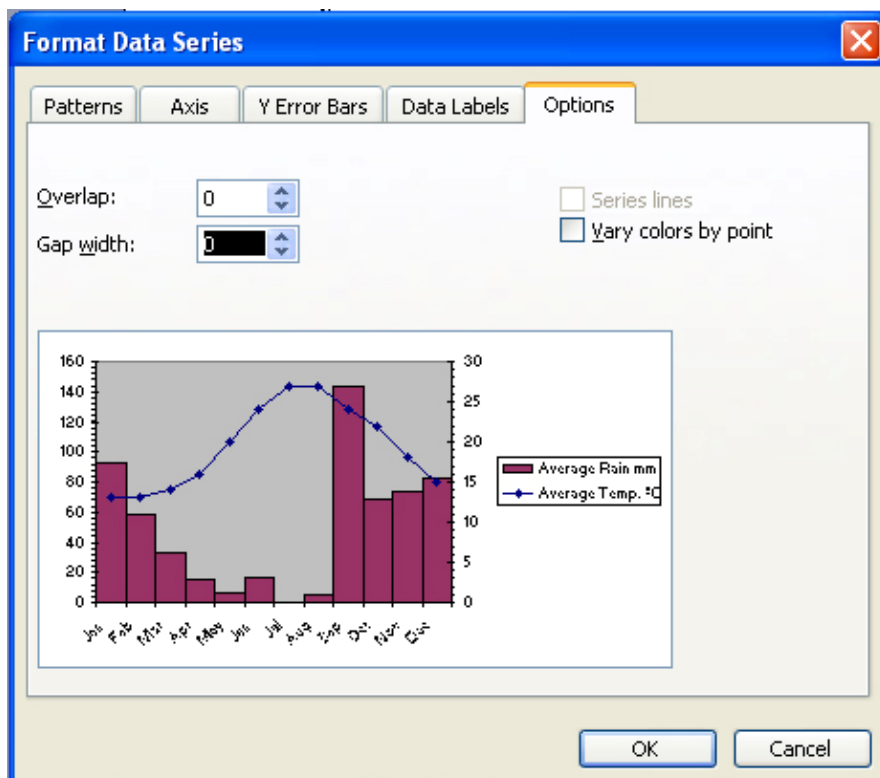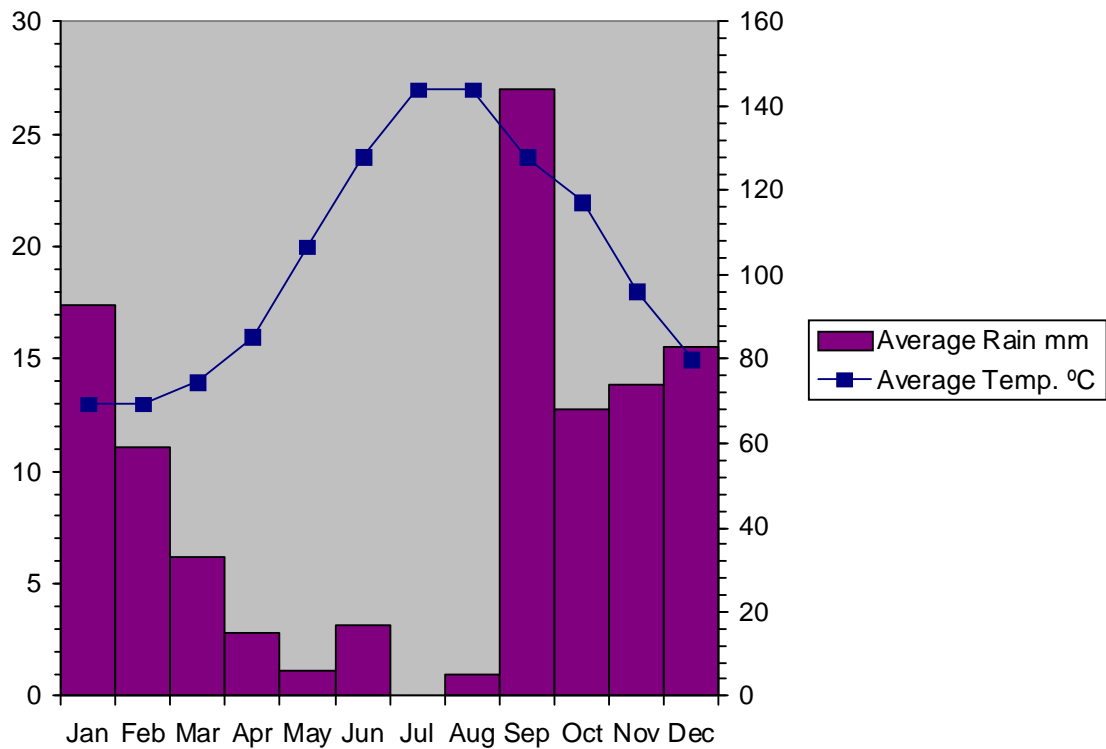
Right click on any column to change its colour. In the **Patterns** tab select a new colour from the selection of colours available.

You will notice that the graph line is very thin and disappears behind the grid lines at some points along its length. Now we will change the colour and thickness of the line on the graph. Right click on the data line anywhere along its length. Choose **Format Data Series**. On the **Patterns** tab you will see that the left side of the panel controls the line properties. Let us change the colour to red and increase its thickness. Tick also the smoothed line box. On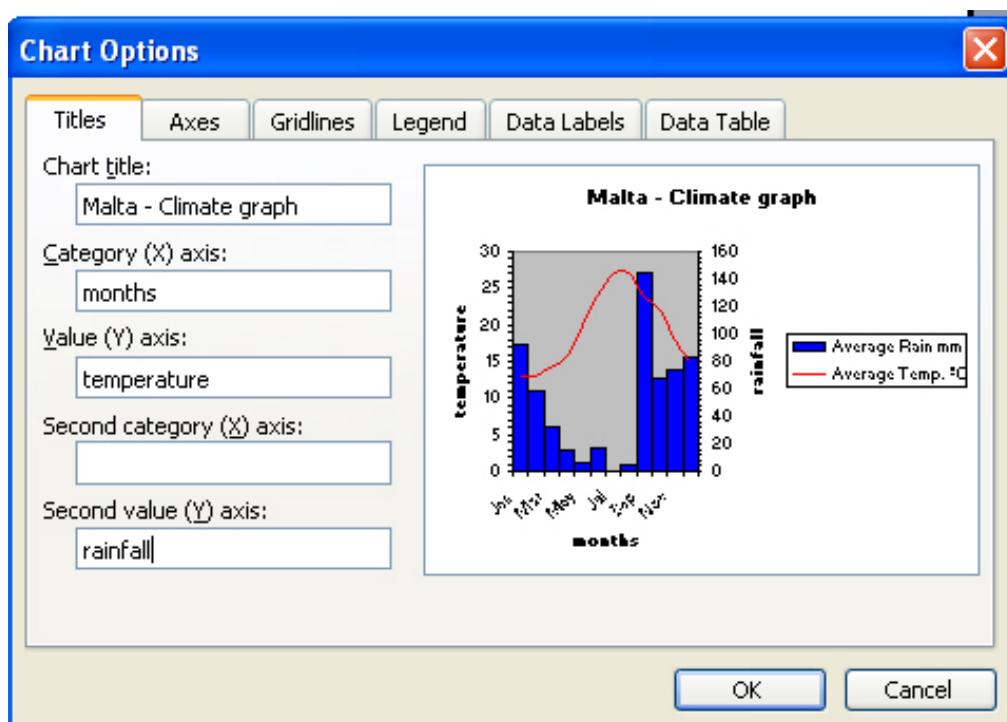 the right side of the panel you will see that it controls the marker properties. Let us remove the markers by selecting none. Click "OK" when finished.
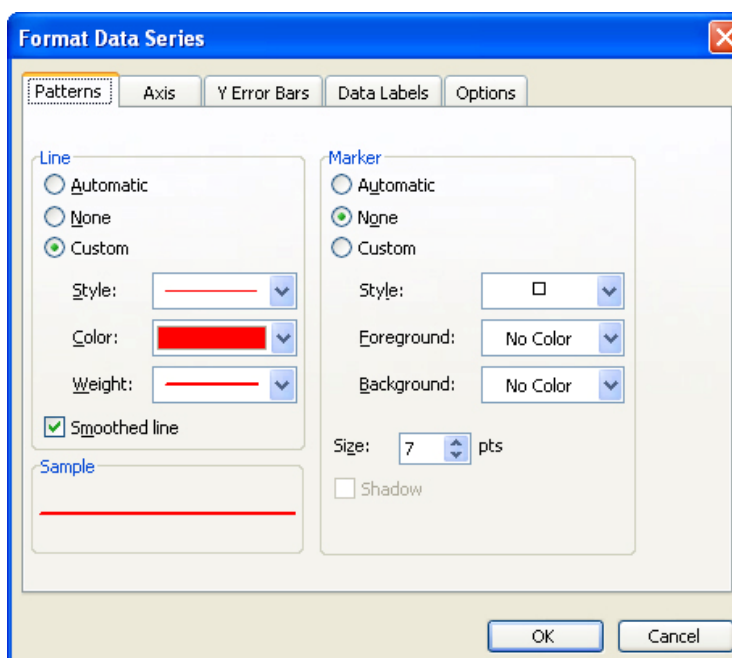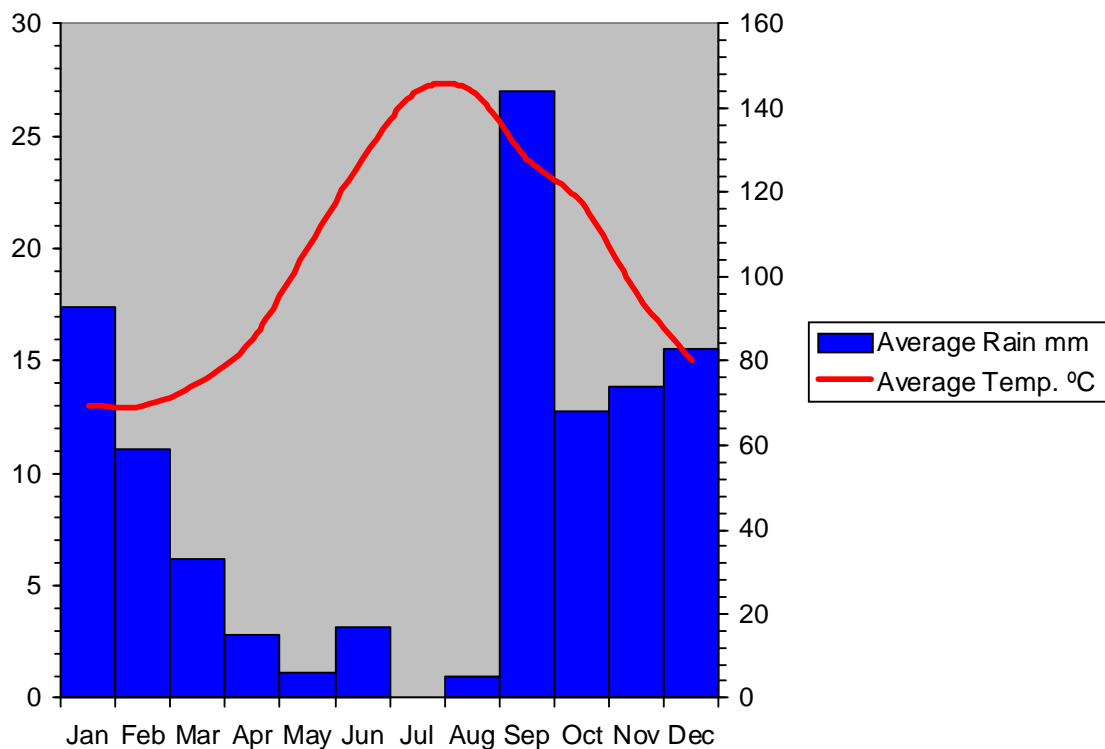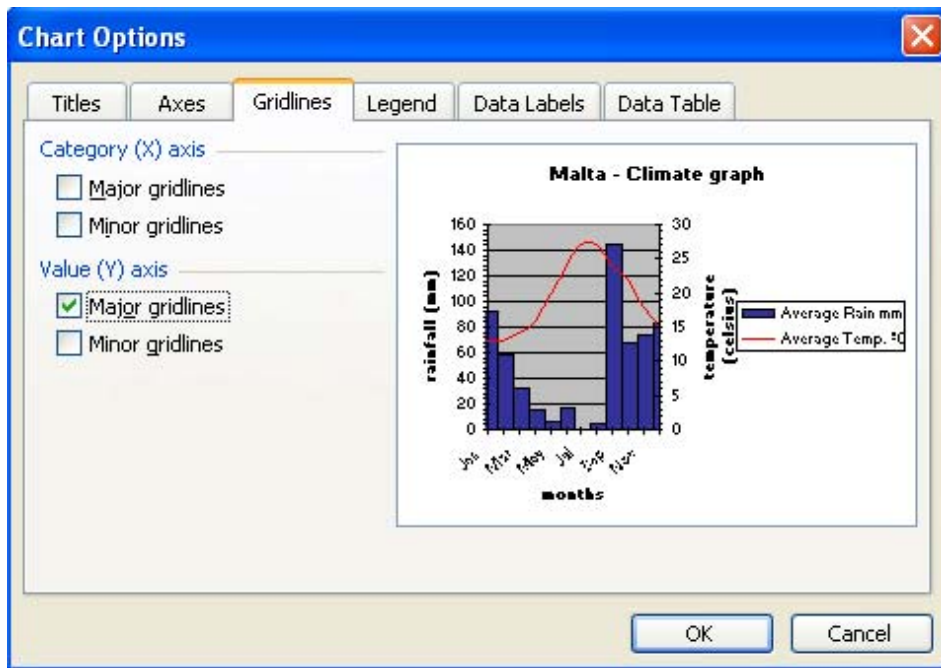
Right click on the Plot Area of the graph and choose **Chart Options**. In the **Titles** window ,

- Name the Chart Title Malta – Climate Graph
- Name the X-axis *month*
- Name the Y-axis *temperature (Celsius)*
- Second value (Y) axis *rainfall(mm)*

In the **Gridlines** tab tick the major grid lines in the category (Y) axis.
In the **Legend** tab tick bottom, to place the legend at the bottom of the graph.

You will now have a new sheet called *Malta Climate Graph* and it should look something like this:
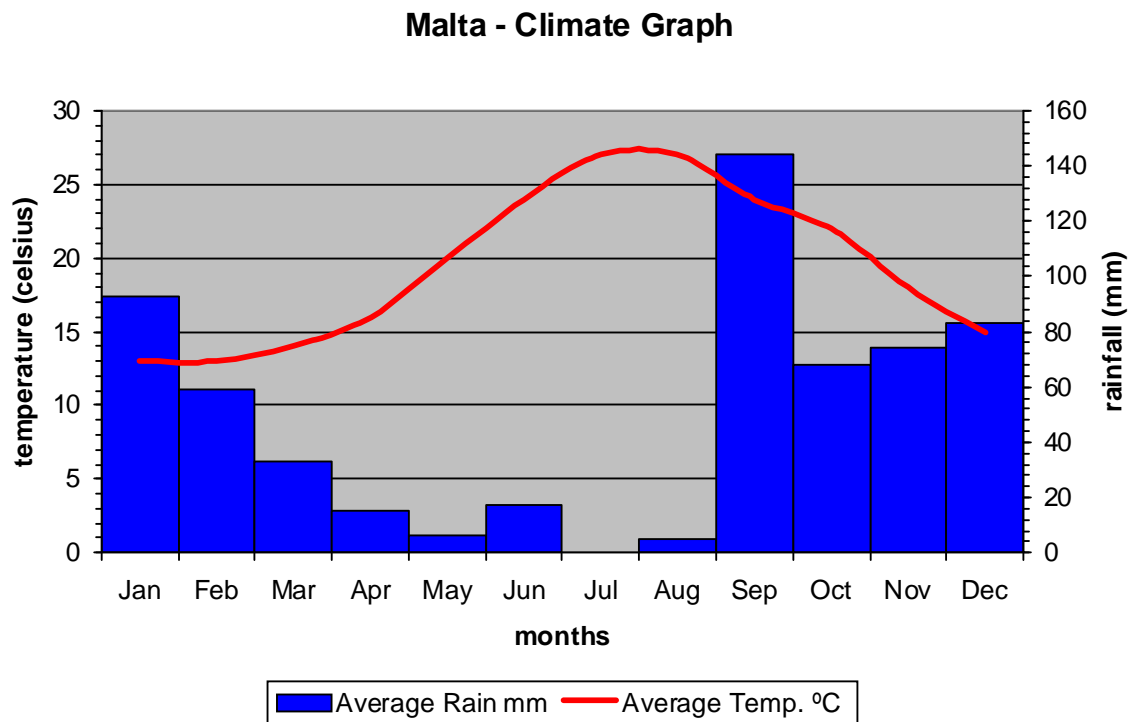
Right click on the grey area of the graph. Select "Format Plot Area". Select None" for area colour on the right hand side of the window. Your graph should look like the shown below.

Malta - Climate Graph