

# Creating Graphs in Microsoft Excel

The Martial Law Museum comes equipped with an economic database before, during, and after the Martial Law Era with 3,518 data points, 152 economic indicators, and counting! In this module, we'll learn how to create a basic graph with Microsoft Excel.

## MATERIALS NEEDED

- Laptop/ Computer
- Microsoft Excel Program

Creating graphs from the economic database is as easy as four steps! All you have to do is:

1. Download the database,
2. Locate chosen economic indicator and corresponding data,
3. Copy data to separate MS Excel file, and
4. Insert a graph from the data!

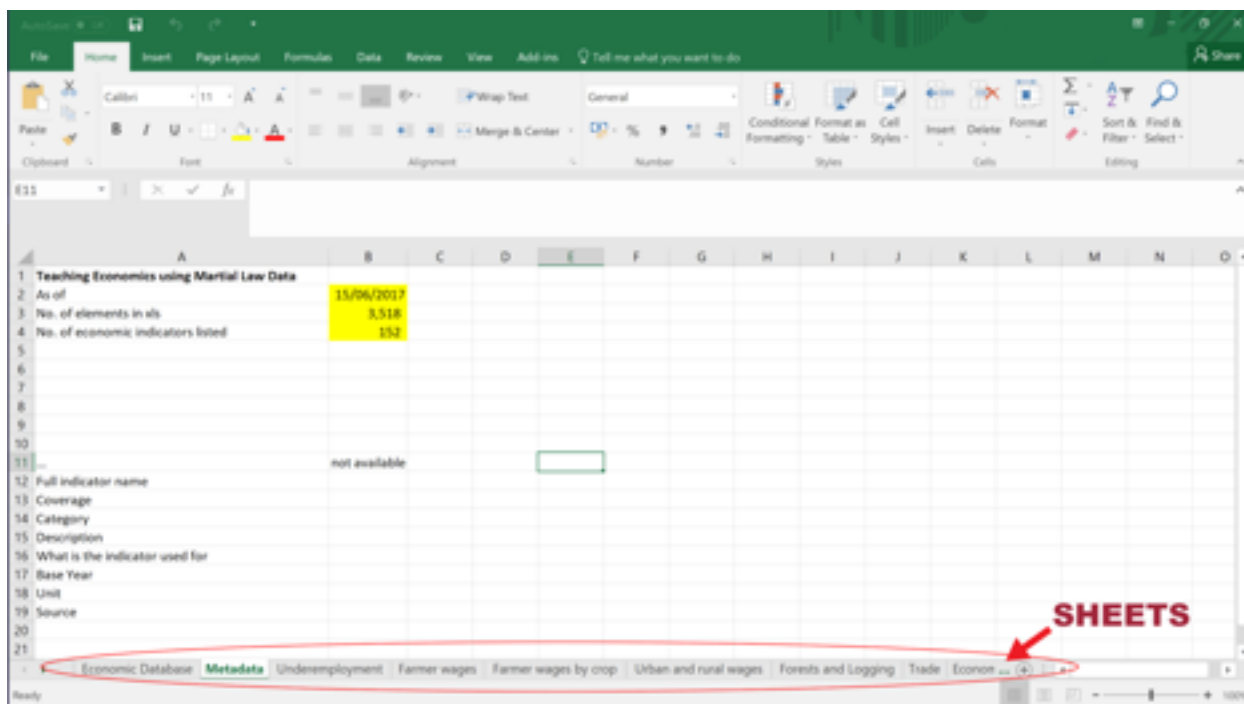
## STEPS

### ① DOWNLOAD THE DATABASE

Go to MartialLawMuseum.ph and download the Martial Law Open Data here:  
<http://martiallawmuseum.ph/magturo/martial-law-in-numbers/>

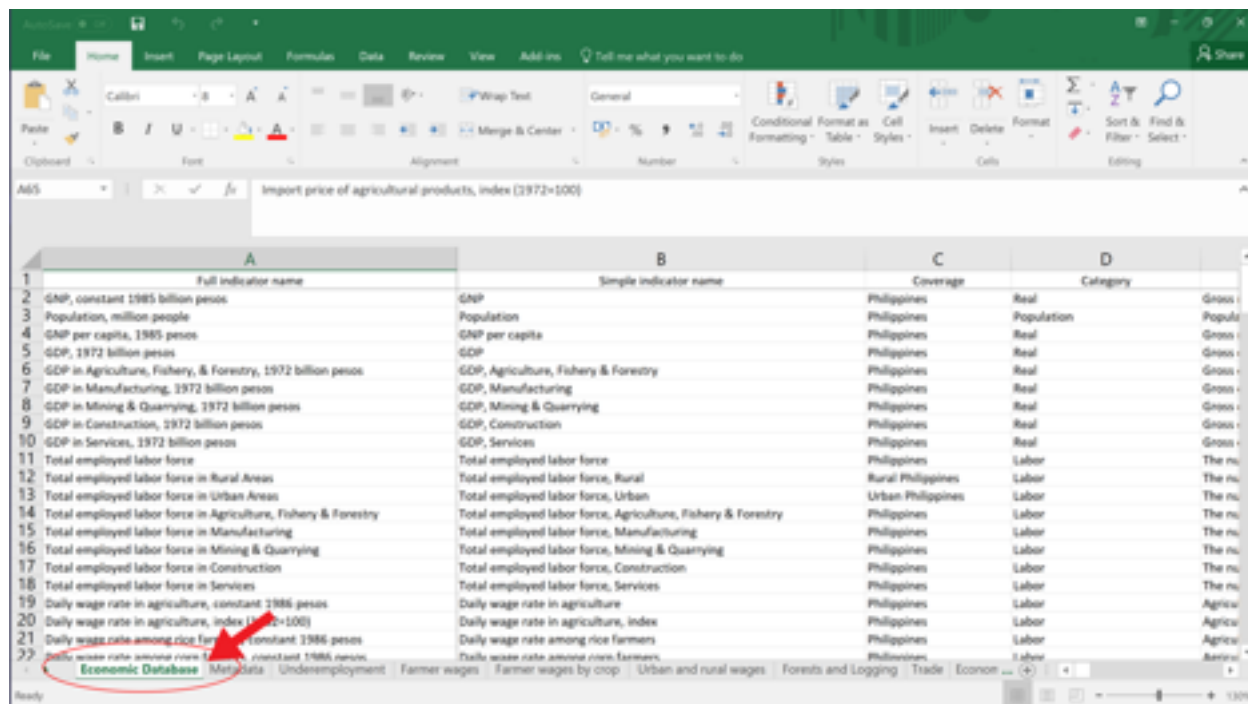
### ② LOCATE CHOSEN ECONOMIC INDICATOR AND CORRESPONDING DATA

A. Upon opening the economic database, it should look like this:



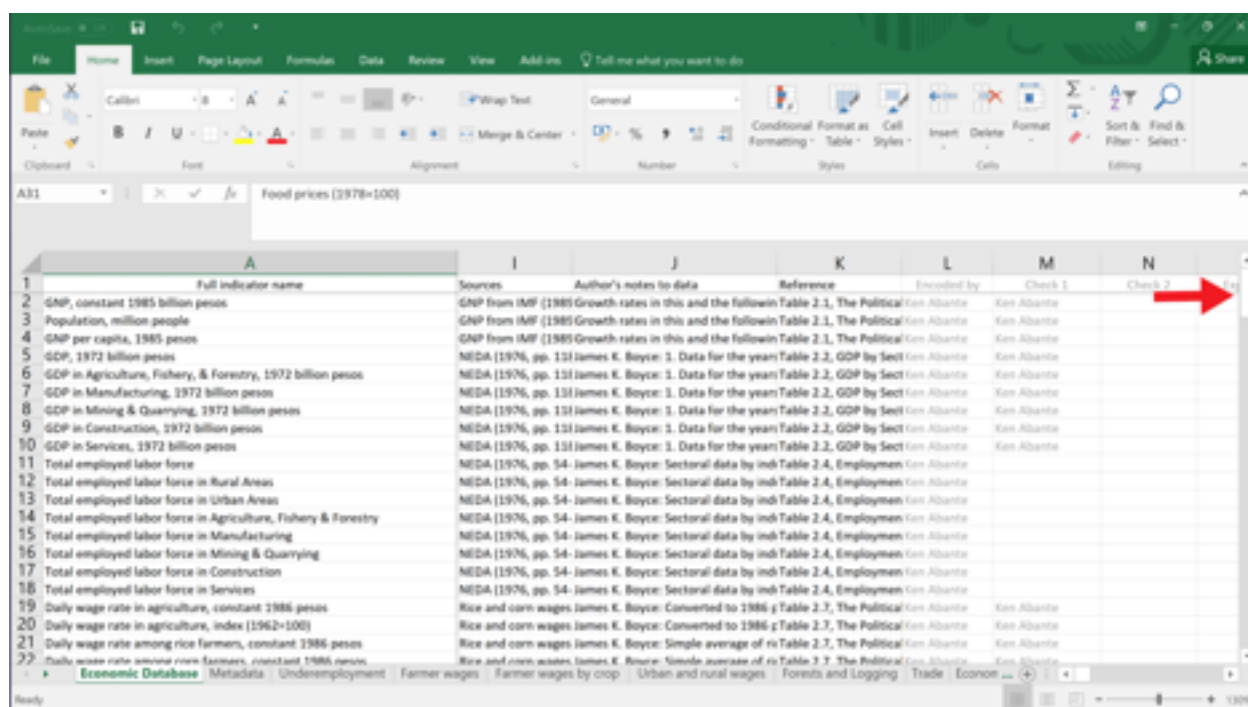
The tabs at the bottom of the spreadsheet are called “sheets”.

B. Click the first sheet labelled “Economic Database”



C. Locate the chosen economic indicator from the first column labelled “Full indicator name”

For example, let’s graph the Food prices and Non-food prices during the regime. To find this, you might need to scroll down the file.



- D. The row for the chosen economic indicator should have the data you'll need!  
Check out the cells to its right to see the data.

| Full indicator name  | Coverage           | Category | Description                                | What is the indicator used for?             |
|--|--------------------|----------|--|---|
| Daily wage rate in agriculture, index (1962=100)                   | Philippines        | Labor    | Agricultural wage rate of a worker in agri | indexes are used to compare a starting      |
| Daily wage rate among rice farmers, constant 1986 pesos            | Philippines        | Labor    | Agricultural wage rate of a rice farmer,   | vDaily wage rate is used to measure ho      |
| Daily wage rate among corn farmers, constant 1986 pesos            | Philippines        | Labor    | Agricultural wage rate of a corn farmer,   | Daily wage rate is used to measure ho       |
| Daily wage rate among sugarcane farmers, constant 1986 pesos       | Philippines        | Labor    | Agricultural wage rate of a sugarcane fa   | Daily wage rate is used to measure ho       |
| Daily wage rate among coconut farmers, constant 1986 pesos         | Philippines        | Labor    | Agricultural wage rate of a coconut farm   | Daily wage rate is used to measure ho       |
| Daily wage rate among urban unskilled workers, constant 1986 pesos | Philippines        | Labor    | Daily wage rate among urban unskilled w    | Daily wage rate is used to measure ho       |
| Daily wage rate among urban skilled workers, constant 1986 pesos   | Philippines        | Labor    | Daily wage rate among urban skilled wo     | Daily wage rate is used to measure ho       |
| Daily wage rate among urban unskilled workers, index (1962=100)    | Philippines        | Labor    | Daily wage rate among urban unskilled w    | indexes are used to compare a starting      |
| Daily wage rate among urban skilled workers, index (1962=100)      | Philippines        | Labor    | Daily wage rate among urban skilled wo     | indexes are used to compare a starting      |
| Consumer price index, according to IMF (1980=100)                  | Philippines        | Prices   | Get standard definition. The consumer p    | The consumer price index is used to co      |
| Consumer price index, according to NEQA (1978=100)                 | Philippines        | Prices   | Get standard definition. The consumer p    | The consumer price index is used to co      |
| Food prices (1978=100)   | Philippines        | Prices   | Get standard definition. The consumer p    | The consumer price index is used to co      |
| Non-food prices (1978=100)   | Philippines        | Prices   | Get standard definition. The consumer p    | The consumer price index is used to co      |
| Infant mortality rate, deaths per 1,000 live births                | Philippines        | Health   | The infant mortality rate is the number    | of The infant mortality rate is an indicato |
| Infant mortality rate in rural areas, deaths per 1,000 live births | Rural Philippines  | Health   | The infant mortality rate in rural areas   | is The infant mortality rate is an indicato |
| Infant mortality rate in urban areas, deaths per 1,000 live births | Urban Philippines  | Health   | The infant mortality rate in urban areas   | The infant mortality rate is an indicato    |
| Poverty rate in the Philippines (WB, 1980), % of families          | Philippines        | Poverty  | The poverty rate is the percent of famil   | The poverty rate is used to measure w       |
| Poverty rate in the Philippines (WB, 1985), % of families          | Philippines        | Poverty  | The poverty rate is the percent of famil   | The poverty rate is used to measure w       |
| Poverty rate in the Philippines (WB, 1988), % of families          | Philippines        | Poverty  | The poverty rate is the percent of famil   | The poverty rate is used to measure w       |
| Poverty rate in the Philippines (Various, 1993), % of families     | Philippines        | Poverty  | The poverty rate is the percent of famil   | The poverty rate is used to measure w       |
| Poverty rate in Manila and Suburbs, % of families                  | Manila and Suburbs | Poverty  | The poverty rate is the percent of famil   | The poverty rate is used to measure w       |

### ③ COPY THE DATA TO A SEPARATE MS EXCEL FILE

- A. Click the number of the **first row** and the **rows of your chosen indicator** while **holding the Ctrl button**. Upon opening the economic database, it should look like this:

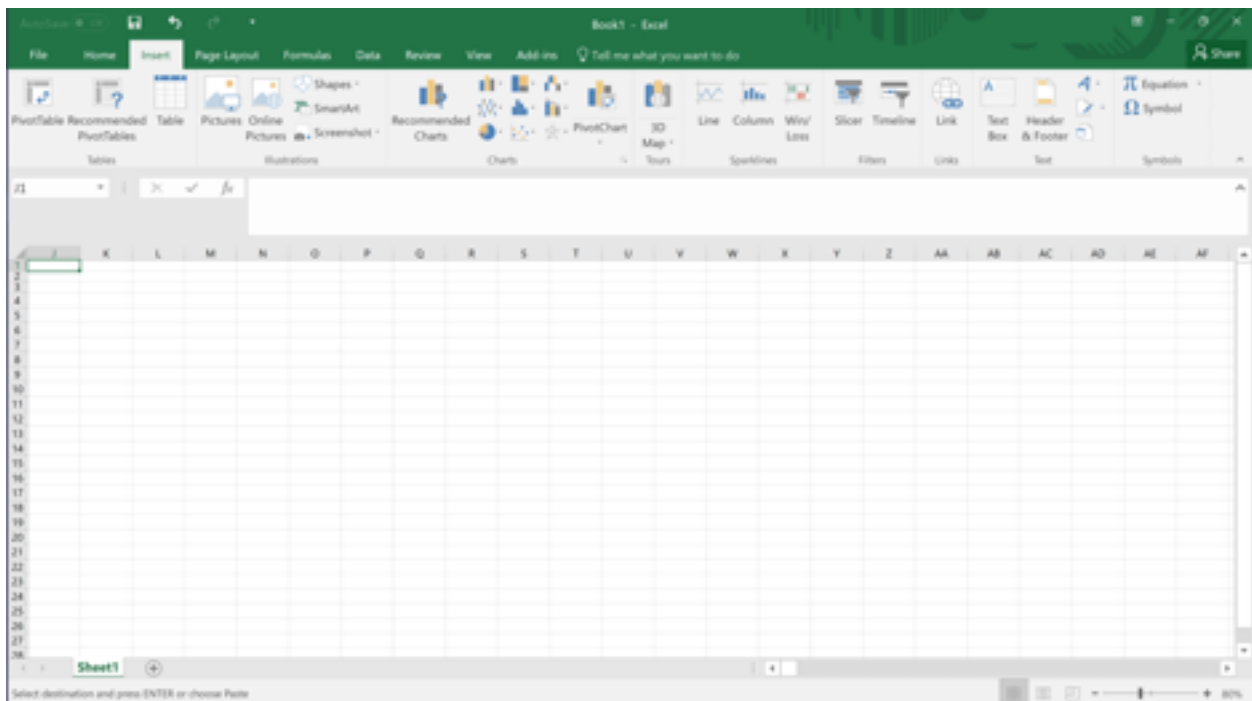
| Full indicator name  | Simple indicator name                       | Coverage           | Category |
|--|---|--------------------|----------|
| Daily wage rate among urban skilled workers, index (1962=100)      | Daily wage rate among urban skilled workers | Philippines        | Labor    |
| Consumer price index, according to IMF (1980=100)                  | Consumer price index, according to IMF      | Philippines        | Prices   |
| Consumer price index, according to NEQA (1978=100)                 | Consumer price index, according to NEQA     | Philippines        | Prices   |
| Food prices (1978=100)   | Food prices                                 | Philippines        | Prices   |
| Non-food prices (1978=100)   | Non-food prices                             | Philippines        | Prices   |
| Infant mortality rate, deaths per 1,000 live births                | Infant mortality rate                       | Philippines        | Health   |
| Infant mortality rate in rural areas, deaths per 1,000 live births | Infant mortality rate in rural areas        | Rural Philippines  | Health   |
| Infant mortality rate in urban areas, deaths per 1,000 live births | Infant mortality rate in urban areas        | Urban Philippines  | Health   |
| Poverty rate in the Philippines (WB, 1980), % of families          | Poverty rate, % of families                 | Philippines        | Poverty  |
| Poverty rate in the Philippines (WB, 1985), % of families          | Poverty rate, % of families                 | Philippines        | Poverty  |
| Poverty rate in the Philippines (WB, 1988), % of families          | Poverty rate, % of families                 | Philippines        | Poverty  |
| Poverty rate in the Philippines (Various, 1993), % of families     | Poverty rate, % of families                 | Philippines        | Poverty  |
| Poverty rate in Manila and Suburbs, % of families                  | Poverty rate, % of families                 | Manila and Suburbs | Poverty  |
| Poverty rate in Ilocos, % of families                              | Poverty rate, % of families                 | Ilocos             | Poverty  |
| Poverty rate in Cagayan Valley, % of families                      | Poverty rate, % of families                 | Cagayan Valley     | Poverty  |
| Poverty rate in Central Luzon, % of families                       | Poverty rate, % of families                 | Central Luzon      | Poverty  |
| Poverty rate in Southern Tagalog, % of families                    | Poverty rate, % of families                 | Southern Tagalog   | Poverty  |
| Poverty rate in Bicol, % of families                               | Poverty rate, % of families                 | Bicol              | Poverty  |
| Poverty rate in Western Visayas, % of families                     | Poverty rate, % of families                 | Western Visayas    | Poverty  |
| Poverty rate in Eastern Visayas, % of families                     | Poverty rate, % of families                 | Eastern Visayas    | Poverty  |
| Poverty rate in Central Visayas, % of families                     | Poverty rate, % of families                 | Central Visayas    | Poverty  |

B. Copy the rows then paste it onto a new spreadsheet.

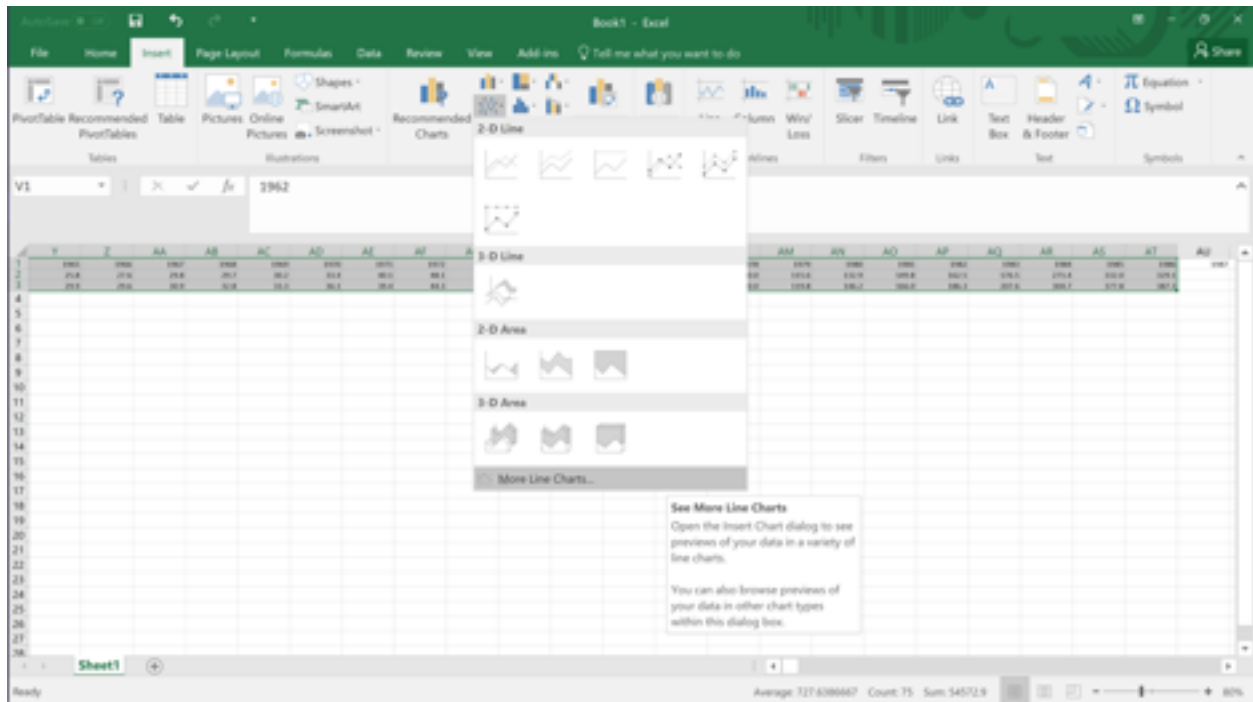
#### ④ INSERT A GRAPH FROM THE DATA

To create a graph on MS Excel, you can choose graphs from the Chart area under the Insert tab.

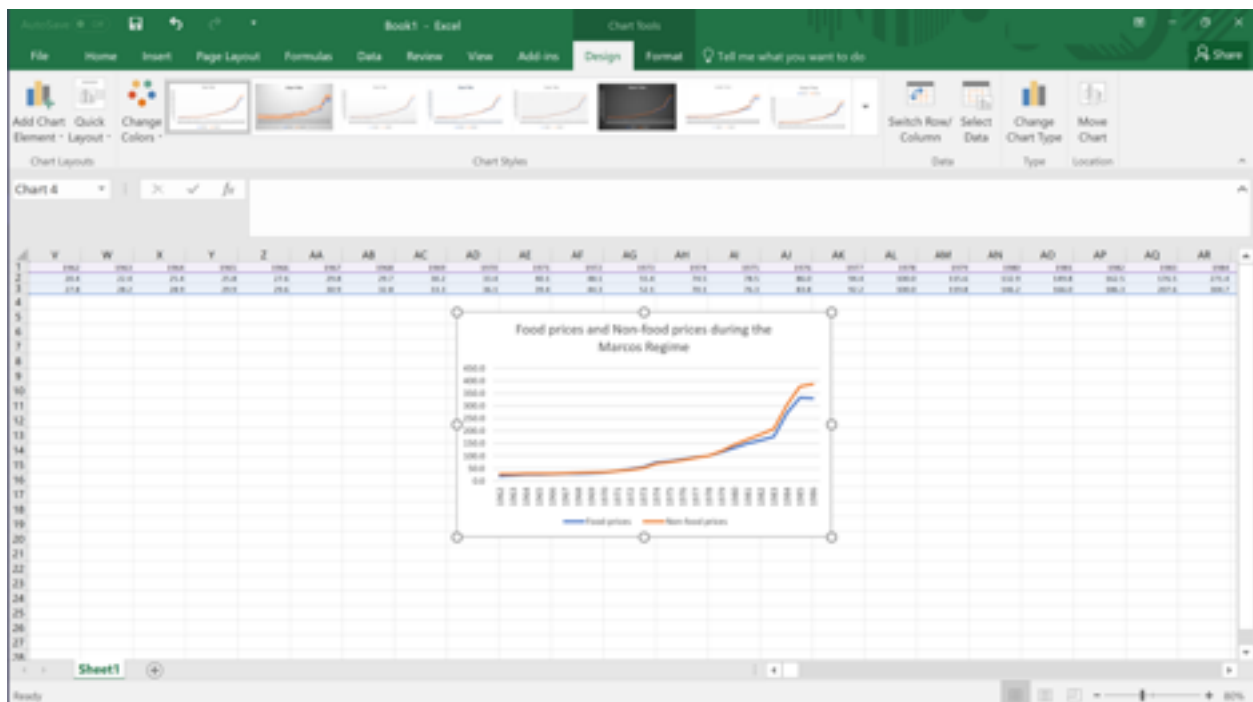
A. Highlight the data points you wish to graph then choose which chart you want to use



B. Try and experiment with the different graphs available!



B. Don't forget to label the chart and the axes! Also remember to cite the source wherever you intend to use this graph. (The sources and the author's notes are also in the economic database.)



Here are the basic elements of a chart:



1. Chart Area
2. Plot Area
3. Data points plotted
4. Horizontal and Vertical Axes
5. Legend
6. Chart and Axis Title
7. Data label

Source: Microsoft Support

Aside from these, you can also change the style of your chart, change the layout of the elements manually, add and remove titles and data labels, show or hide legends, display or hide gridlines, and more! Visit the Microsoft Support Page referenced below for a more detailed account of creating and editing graphs.

## REFERENCES

(n.d.). *Create a chart from start to finish*. Retrieved from [https://support.office.com/en-us/article/Create-a-chart-from-start-to-finish-0baf399e-dd61-4e18-8a73-b3fd5d5680c2?ui=en-US&rs=en-US&ad=US#\\_\\_toc255902069](https://support.office.com/en-us/article/Create-a-chart-from-start-to-finish-0baf399e-dd61-4e18-8a73-b3fd5d5680c2?ui=en-US&rs=en-US&ad=US#__toc255902069)