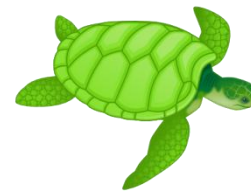# Florida Sea Turtle Nesting Data

Mapping out the Data

Using the data provided, locate and color in the counties in which Green, Leatherback and Loggerhead turtles have been observed nesting.

Green data: http://research.myfwc.com/engine/download_redirection_process.asp?file=Green_Turtle_Nesting_Data__1990-2006.pdf&objid=2496&dltype=article
Leatherback data: http://research.myfwc.com/engine/download_redirection_process.asp?file=Leatherback_Nesting_Data__1990-2006.pdf&objid=2479&dltype=article
Loggerhead data: http://research.myfwc.com/engine/download_redirection_process.asp?file=Loggerhead_Nesting_Data__1990-2006.pdf&objid=2411&dltype=article
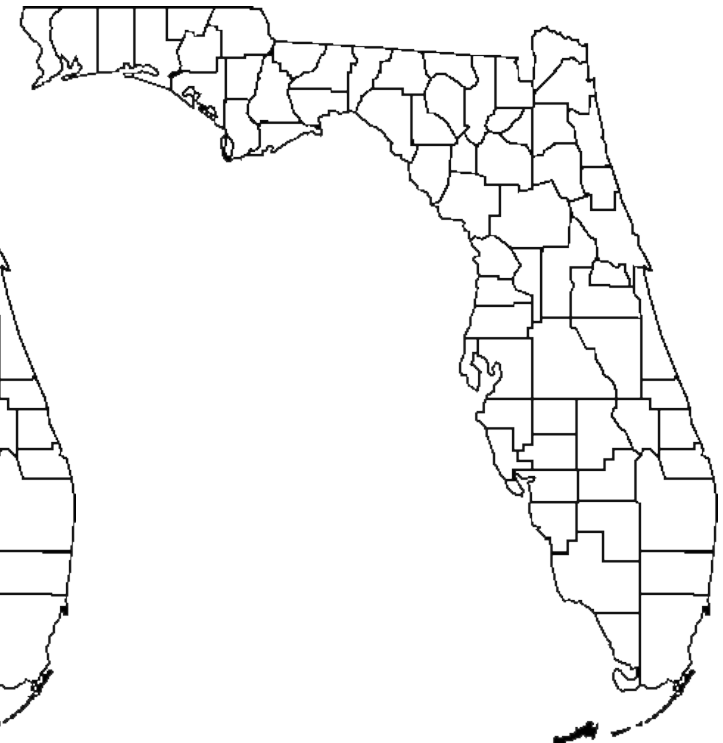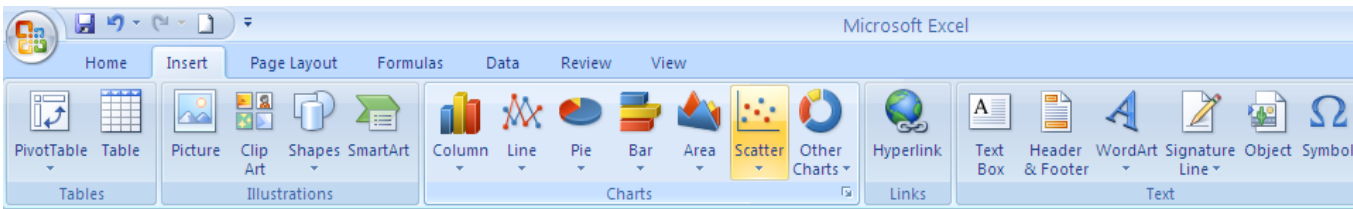
GREEN

LEATHERBACK

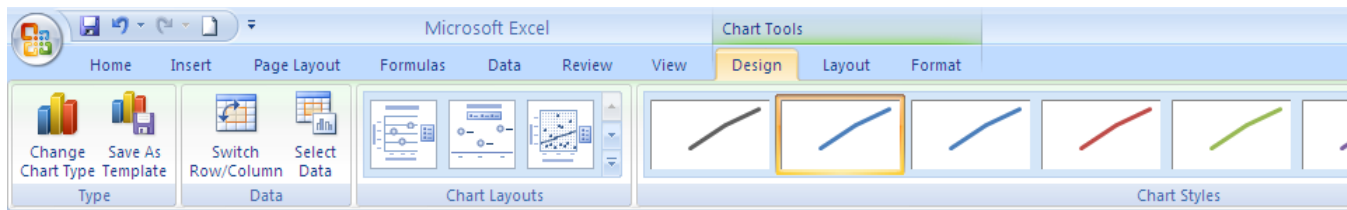LOGGERHEAD

Graphing out the Data

Using the same data, make a graph using Microsoft Excel which depicts the change in **yearly statewide total** nesting observations for the three turtles from 1990 to the present date.

Directions for making a graph in Excel 2007:
1. Open up a new spreadsheet.
2. In cell **A1** type the **title** of the graph.
3. In cell **A2** type **Year**.
4. In cell **B2** type **Green.**
5. In cell **C3** type **Leatherback**.
6. In cell **D4** type **Loggerhead**.
7. In **column A** fill in years starting with 1990 to end date.
8. In **column B** fill in the nesting data for Green sea turtles starting with 1948 to present.
9. In **column C** fill in the nesting data for Leatherback sea turtles.
10. In **column D** fill in the nesting data for Loggerhead sea turtles.
11. Select a cell from within the data set (highlight any date or nesting number).
12. Click on the **Insert tab** in the tool bar at the top of the screen. Chose the **Scatter** plot graph in the **Charts** group (see below).

13. Choose a scatter plot graph with **straight lines** and **no markers**.
14. You can change the color of the line and background of the chart using the **Design tab** in the **Chart Tools** group (see below).

15. Click on **Layout** in the **Chart Tools** group. Use the **Chart Titles, Axis Titles** and **Legend** to label your data.
16. Click on **Format** to further change colors, borders and fonts within your chart.
17. Right click on your chart. Select **Move Chart** and choose to place your chart in a **New Sheet**.
18. Enlarge your chart so that it fills the page. **Print** your Chart on a separate piece of paper.
19. Go back to **Sheet 1** and **print** out your data set.

Questions

1. **List** the counties in which all three sea turtles have nesting sites.

    _____
    _____

2. **Describe** the *trends*, or *patterns*, in the nesting data for each sea turtle (use the graph you created to answer this question.)

    Green: _____
    _____

    Leatherback: _____
    _____

    Loggerhead: _____
    _____

3. **Describe** the *differences* in the nesting data of the sea turtles.

    _____
    _____
    _____

4. **Explain** how this data might be useful to conservation biologists.

    _____
    _____
    _____