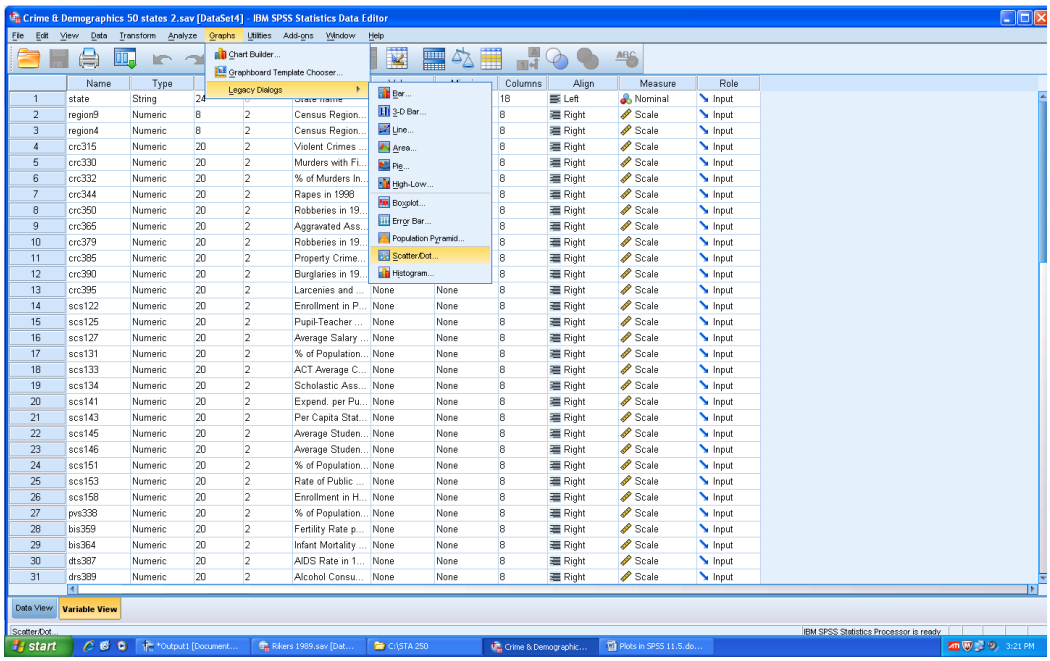
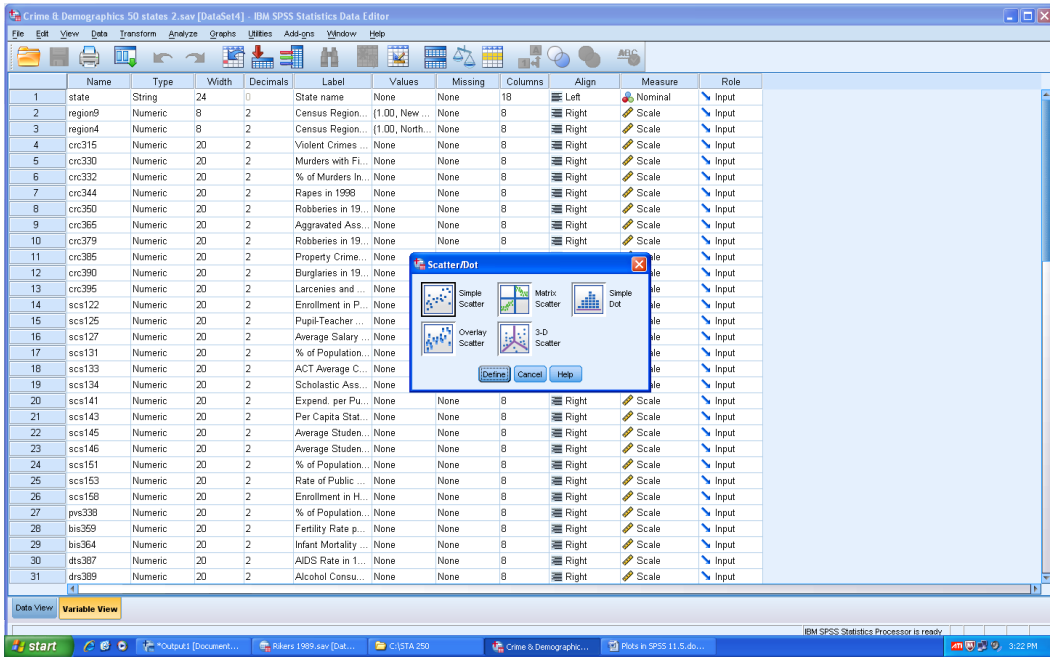
ScatterPlots in IBM SPSS versions 21-22

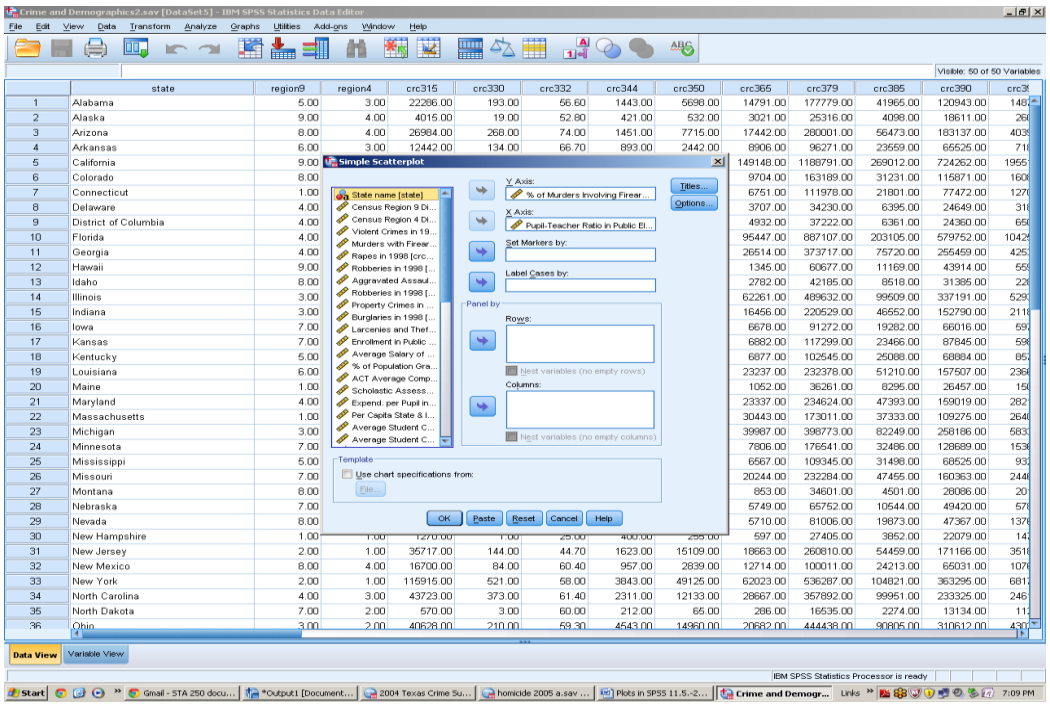
Step 1: Choose Scatter/Dot from the Graphs > Legacy Dialogs menu



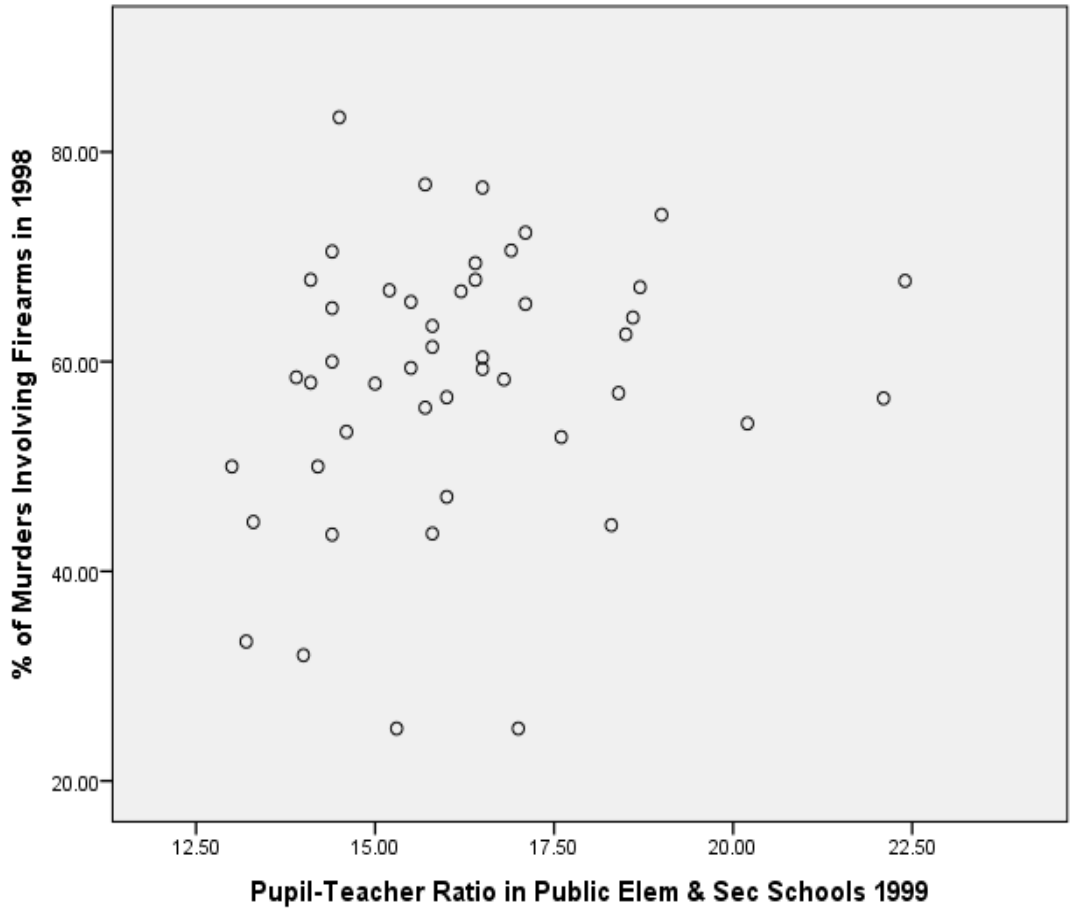
Then choose SIMPLE



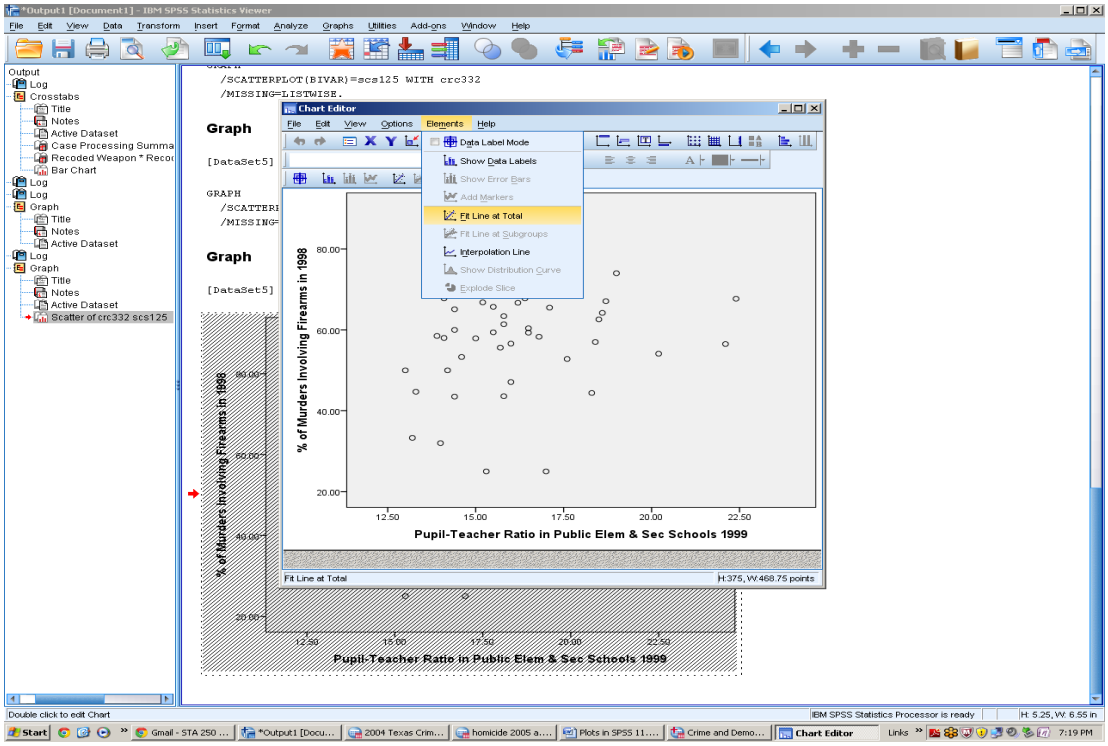
Then select DEFINE > select your X and Y variables. The dependent variable here is of Percent of Murders with Firearms (on the Y axis) and the independent variable is Pupil-Teacher Ratio in Public Schools (on the X axis).



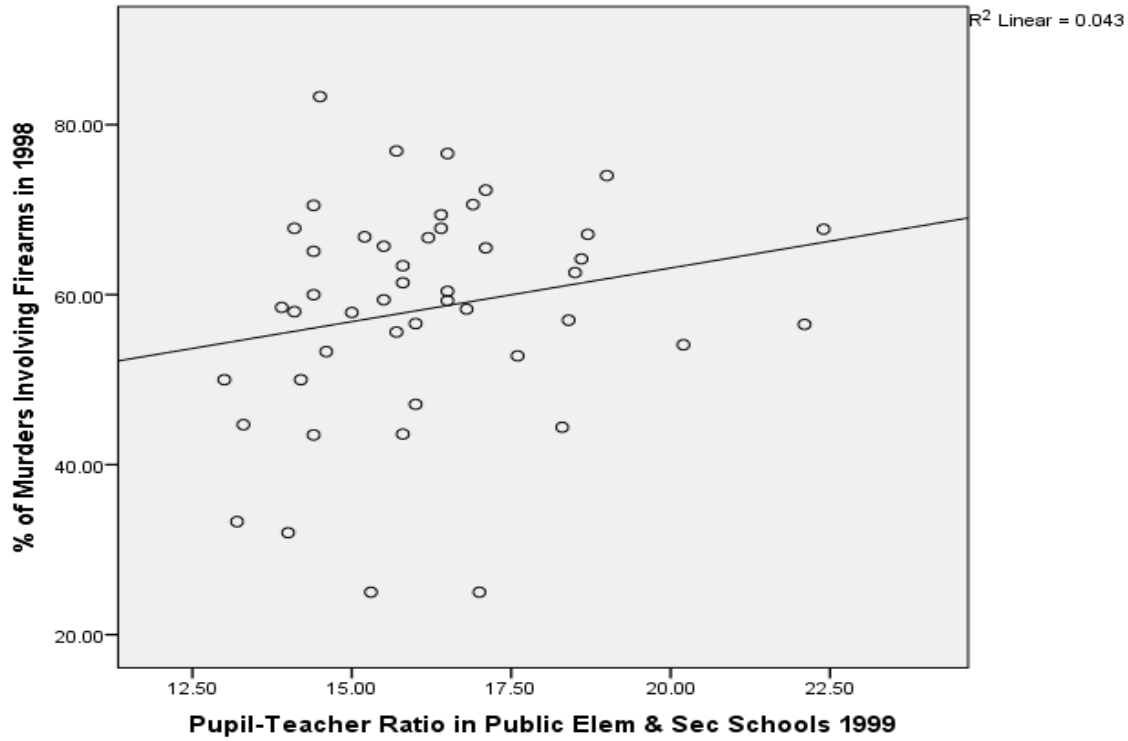
Pressing OK will generate the scatterplot.



Working from your Output window, doubleclick the chart area to bring up the Chart Editor and the choose Options from the Chart menu to get what you see below. You can check the TOTAL box under Fit Line.

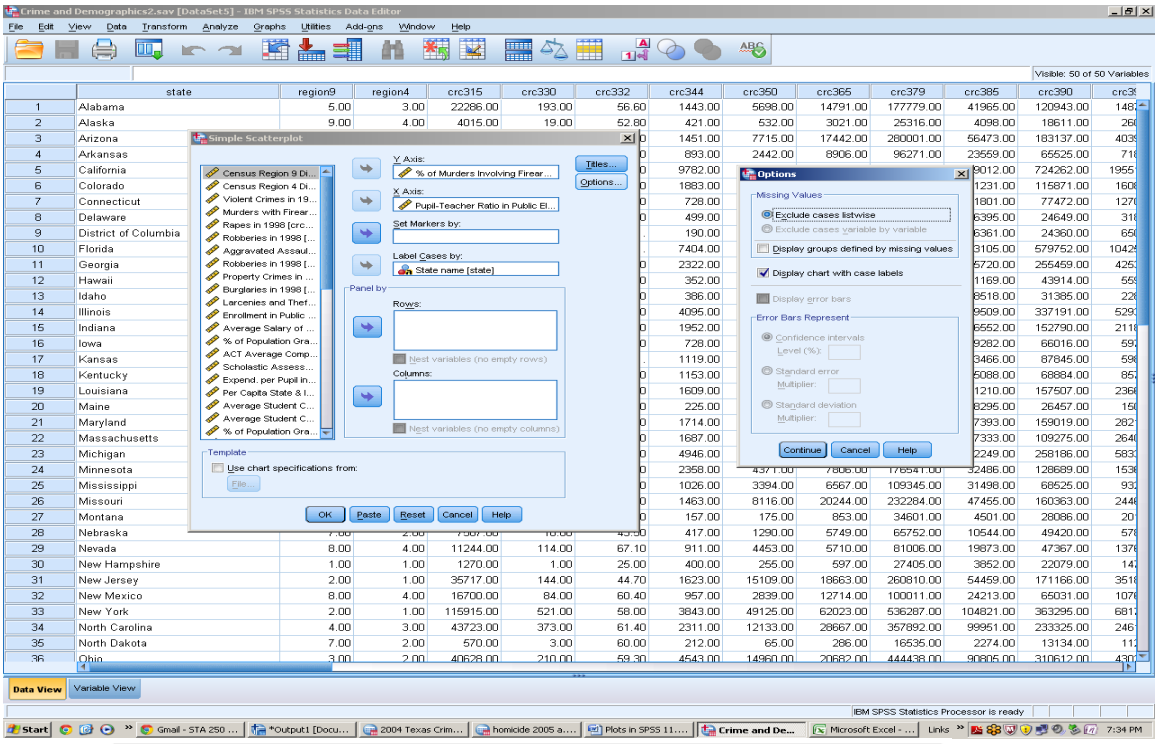


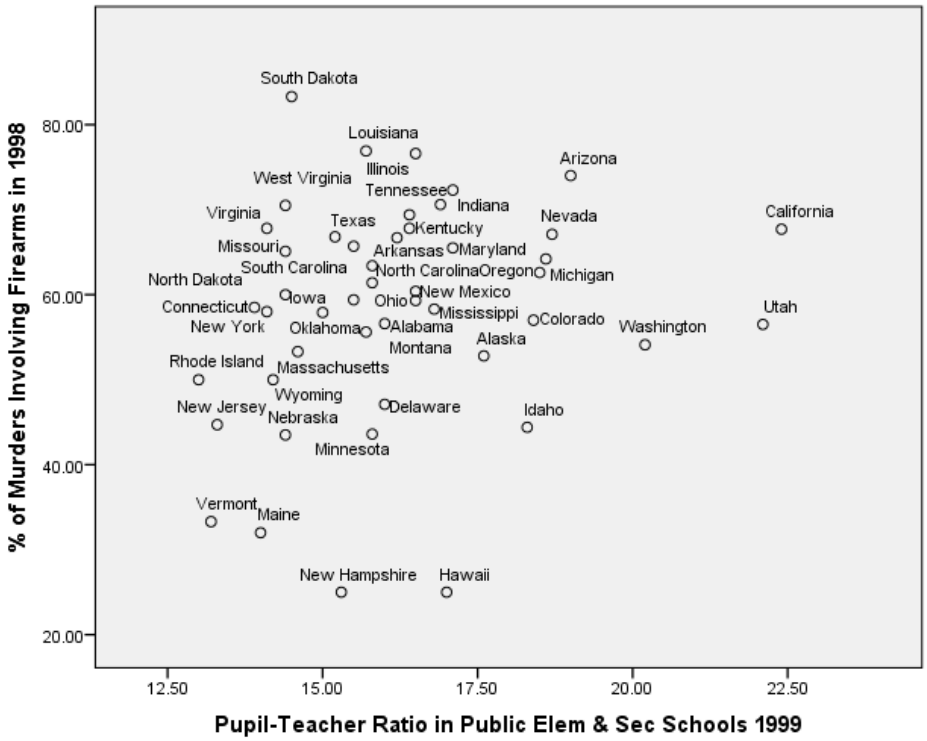
This "Line of Best Fit" is now shown on your plot.



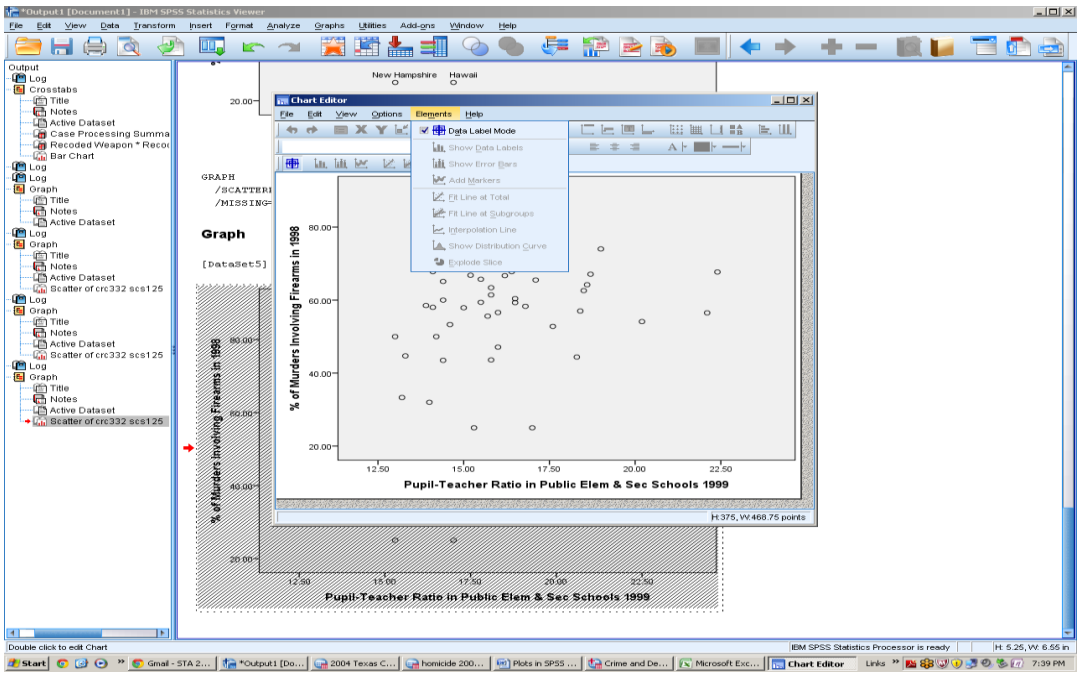
The plot now shows that as the pupil-teacher ratio increases (more students per teacher), the percent of homicides also increases. The relationship is positive.

If you want see the state names on your plot, add the variable STATE to the box that says **Label Cases By** and use the OPTIONS box to check the box that says "Display chart with case labels".

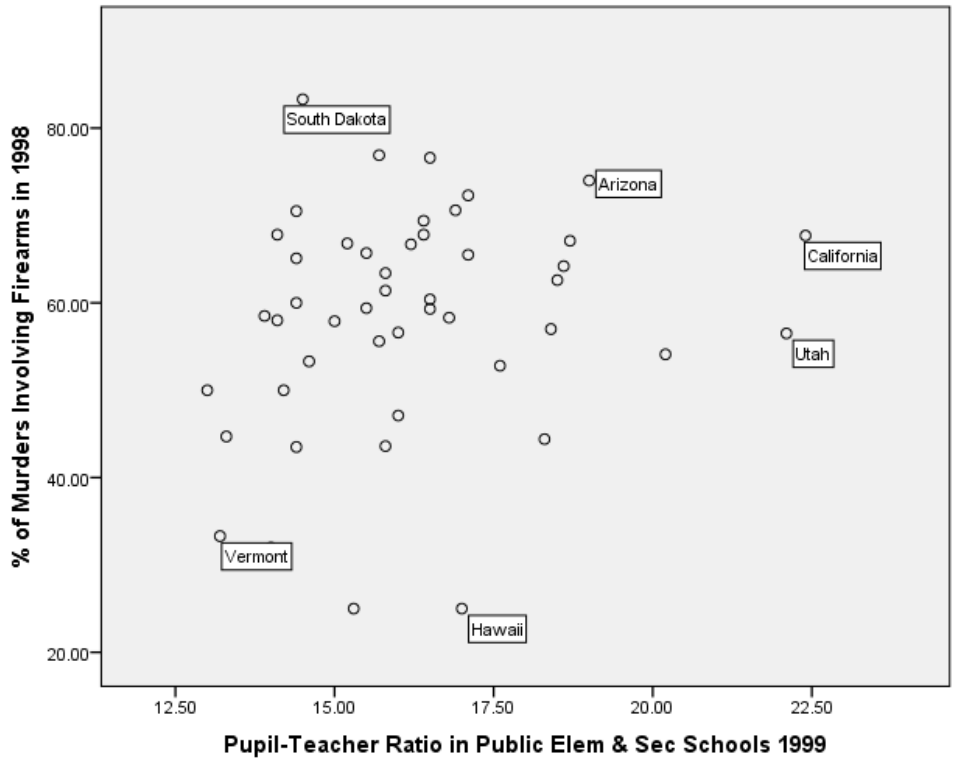




If you want only a few selected State names, then DO NOT select “Display chart with case labels”. Instead, double click the cart after you have added STATE to the Label Cases By box, and use the Elements menu to select Data Label Mode.



Then you can click on individual points to get the individual state names.



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