

SAS Programming Practice #13

Use the GPLOT or GCHART for the following.

Using the Stillwater Mesonet data table CLASS.MESONET1_4 from Assignment #10 and SAS/GRAPH Procedures,

1.
 - a. Produce a scatterplot of maximum temperature by sod soil temperature. (1 plot, all 4 months). Select brown squares for the plotting symbol.
 - b. Produce a scatterplot of maximum temperature by sod soil temperature where each month has a different plotting symbol. (1 plot, all 4 months)
 - c. Produce scatterplots of maximum temperature by sod soil temperature by month. Do not try to arrange months chronologically.
2. Produce line or series plots overlaying the trends of sod soil temperature over time (day of the month) and the maximum temperature over time for the months of January and February. You should have one plot for each month and two variables plotted across day or time in each plot. Do not try to reorder the months. They will appear in alphabetical order. Use a solid red line for the sodsoil variable and a dashed blue line for maximum temperature. No plotting symbols – just lines.
3. Produce a horizontal bar chart where there is a bar for each month and the length of the bar is the total rainfall for the month. Select blue for the bar color.
4. Produce histograms (vertical bar charts) of the two soil temperature response variables where the bars are grouped by month for each response variable. Select green for the sod soil temperature and your choice of color for the other soil variable for the solid bar color.

In each case experiment with font types and sizes. For those plots requiring a legend, investigate legend definition and placement.

One can achieve panel plots in SAS for these procedures, but that requires some skills I've not taught in this course. For now, if you'd want to do that, I'd recommend inserting the images in your word processing document or presentation software and edit the images from there.