Select subset of data by XY coordinates

Author: Greta Linse Peterson, Golden Helix, Inc.

Overview

This script takes an upper and lower bound for two numeric columns and creates a subset spreadsheet for the two columns.

Recommended Directory Location

Save the script to the following directory:
*..**\Application Data\Golden Helix SVS\UserScripts\Spreadsheet\Plot**

Note: The **Application Data** folder is a hidden folder on Windows operating systems and its location varies between XP and Vista. The easiest way to locate this directory on your computer is to open SVS and go to **Tools >Open Folder > UserScripts Folder**. If saved to the proper folder, this script will be accessible from the spreadsheet **Plot** menu.

Goal

The purpose of this script is to create a subset spreadsheet based on X and Y coordinates either known in advance or determined by looking at an XY Scatter Plot.

In the example below, a subset spreadsheet is needed for the samples with data points in the area outlined in **Figure 1**.

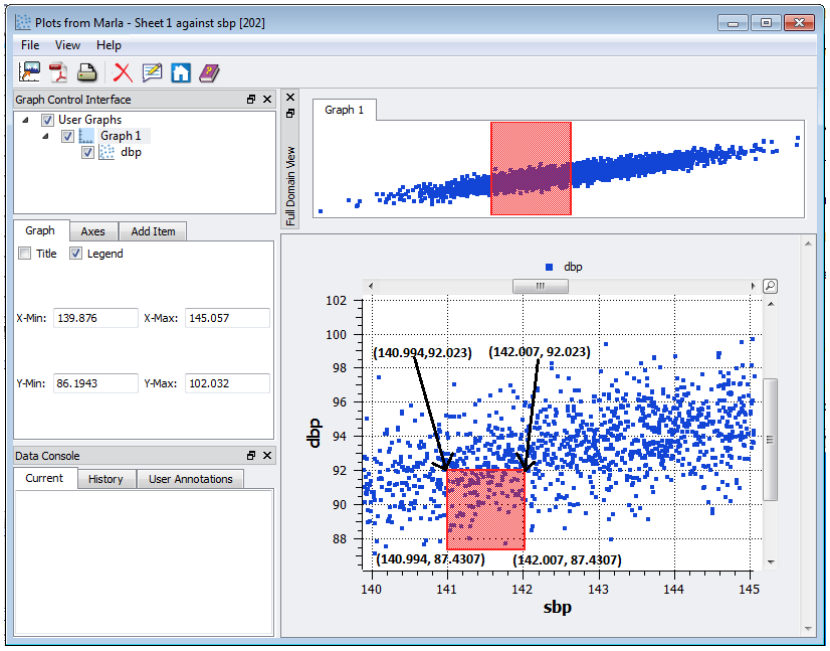
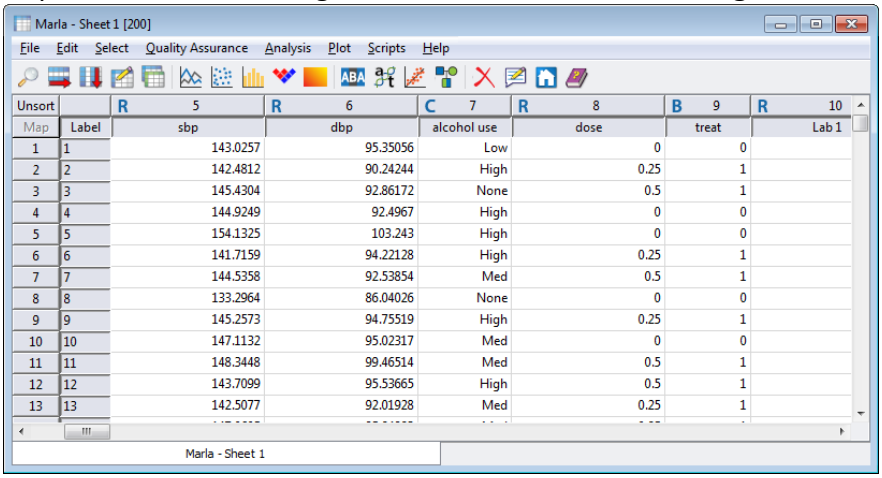


Figure 1: XY Scatter Plot with area of interest highlighted.

Using the Script

1. Open a spreadsheet containing numeric columns, such as in **Figure 2**.



Unsort		R 5	R 6	C 7	R 8	B 9	R 10
Map	Label	sbp	dbp	alcohol use	dose	treat	Lab 1
1	1	143.0257	95.35056	Low	0	0	
2	2	142.4812	90.24244	High	0.25	1	
3	3	145.4304	92.86172	None	0.5	1	
4	4	144.9249	92.4967	High	0	0	
5	5	154.1325	103.243	High	0	0	
6	6	141.7159	94.22128	High	0.25	1	
7	7	144.5358	92.53854	Med	0.5	1	
8	8	133.2964	86.04026	None	0	0	
9	9	145.2573	94.75519	High	0.25	1	
10	10	147.1132	95.02317	Med	0	0	
11	11	148.3448	99.46514	Med	0.5	1	
12	12	143.7099	95.53665	High	0.5	1	
13	13	142.5077	92.01928	Med	0.25	1	

Figure 2: Spreadsheet containing numeric columns.

2. Select **Plot > Select subset of data by XY coordinates** and enter in the appropriate information to the parameters dialog, see **Figure 3**.

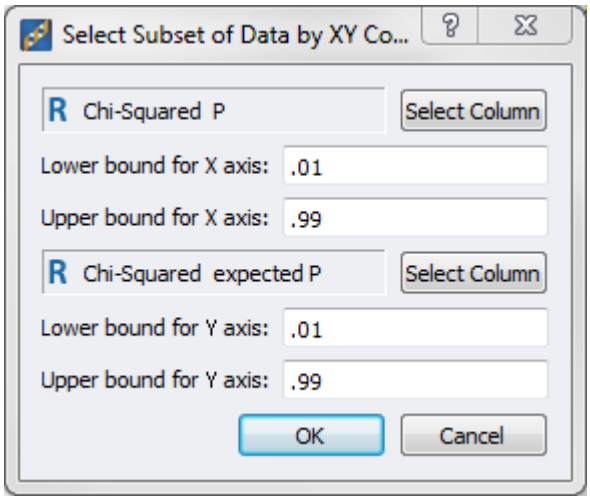


Figure 3: Select subset of data by XY coordinates parameters dialog.

The resulting spreadsheet will be a row subset spreadsheet with only the rows (samples) that met the specified criteria.