Attachment C

Steps to get a Station Data Table and Report for a New Station Called Station # in the instructions

Open the data tables that you will use.
File ➔ Open ➔ Station009.jmp ➔File ➔ Open ➔ SeasoNdx.jmp ➔
File ➔ Open ➔ ContSite.jmp ➔

In the data table **ContSite.jmp** select the rows for Station #.
Rows ➔ Select ➔ Where... ➔ Station ➔ equals [▾] ➔ # ➔ [OK] ➔

Using Ctrl-Click, highlight columns **Station** and **Avg. Day**➔
Tables ➔ Subset You will get an Untitled table with 60 Rows and 2 Columns
Window ➔ SeasoNdx ➔ Tables ➔ Join ➔ Untitled_ ➔ By Row Number ➔
Output Table: Station# ➔ **[Join]**
Data Table Station# will have 60 Rows and 11 Columns. ➔

File ➔ Save ➔ Select folder in which to Save ➔ **Save ➔**

Rename column **Avg. Day** to **Avg.dayS#** ➔

Get the formula to standardize **Avg. DayS#**.
➔ **Window ➔ Station009 ➔** Double-click in the header box of **StdSta009**.
➔ Click on the Formula in the lower left-hand corner of the Column Information
window. ➔ Click on the fraction bar in the formula to highlight all of the formula.
➔ **Edit ➔ Copy ➔** Close the Formula window **[X]**. ➔ **Window ➔ Station# ➔**

Create a new column standardizing **Avg. DayS# ➔ Cols ➔ New Column... ➔**
Col Name: StdSta# ➔ **Data Source: Formula [▾] ➔ [OK] ➔ Edit ➔ Paste ➔**
choose **Avg. DayS# ➔** Close Formula window **[X]**. ➔ **File ➔ Save ➔**

Plot **StdSta#** against **Month**.
Window ➔ Station# ➔ Analyze ➔ Fit Y by X ➔ Month ➔ >>X>> ➔ StdSta# ➔
>>Y>> ➔ **[OK] ➔** Fitting **[▸] ➔** Fit Spline ➔ .1 ➔

Change the range of the Y axis to be –3 to 3 with steps of 1 and no decimals. ➔
Double-click on a number on the **StdSta#** axis.➔ **Minimum: -3 ➔**
Maximum: 3 ➔Increment: 1 ➔ Minor Ticks: 0 ➔
Format: Fixed Decimal [▾] 0 ➔ [OK] ➔

Copy the graph to the Windows clipboard.
➔ Choose the Scissors tool. ➔
Alt-Click on (StdSta# by Month) ➔ **Edit ➔ Copy ➔**

Paste the graph into the top part of the report on Station #.

Create the Pairwise Correlation matrix of Season Group Indexes with Avg. Day#.

Window ➜ Station# ➜ Analyze ➜ Correlation of Y's ➜ InvNdxG1 ➜ >>Add>> ➜ ... ➜ InvNdxG7 ➜ >>Add>> ➜
OR, click-and-drag to highlight InvNdxG1 through InvNdxG7, the **>>Add>>**.
Avg. DayS# ➜>>Add>> ➜[OK] ➜
Border Check-Mark [✓] ➜ Correlation-Pairwise ➜

Copy the Pariwise Correlation table to the Windows clipboard.
Scissors Tool ➜
Alt-Click (Pairwise Correlation) ➜ **Edit ➜ Copy ➜**

Paste the table into the bottom part of the report for Station #. To make the table fit, resize the table to 50%, crop the picture to cut off the histogram and top part of the table, then resize back to 100%. Note that the column headings are included in the template.

If you want to add the bottom row of the Scatterplot matrix to your report, take the following steps:

[✓] ➜ Scatterplot Matrix ➜ Scissors Tool ➜
Alt-Click (Scatterplot Matrix) ➜ **Edit ➜ Copy ➜**
Paste the Scatterplot matrix into the bottom part of the report for Station #. Crop the picture to cut off the top seven rows of scatterplots. Note that the labels for the horizontal axes are included in the template.

Close all of the Windows in JMP that you will not use with the next station.
Wait to close the JMP windows until you are sure that you will not need to re-do the copy-and-paste into the report.

Note: You can recreate the formula to standardize **Avg. DayS#** with the following steps:

Window ➜ Station# ➜ Cols ➜ New Column... ➜ Col Name: StdSta# **➜**
Data Source: Formula [▾] ➜ [OK] ➜
Key Pad: (➜ Column List: Avg. DayS# ➜ Key Pad: - ➜
Function Type: Statistical ➜ Function: Mean ➜
Column List: Avg. DayS# ➜Click on **) ➜ Key Pad: ÷ ➜**
Function Type: Statistical ➜ Function: Std Deviation ➜
Column List: Avg. DayS# ➜ Close Function window **[X]**

Format for Season Inverse-Index Data Table

Day Code	Month	InvNdxG1	InvNdxG2	InvNdxG3	InvNdxG4	InvNdxG5	InvNdxG6	InvNdxG7
2	1	0.900901	0.78125	0.581395	1.041667	0.704225	0.164745	.
2	2	0.934579	0.8	0.625	1.06383	0.806452	0.186916	0.301205
2	3	0.961538	0.833333	0.680272	1.086957	0.793651	0.384615	0.52356
2	4	0.990099	0.925926	0.884956	1.111111	0.909091	0.571429	0.813008
2	5	1	0.980392	1.123596	0.990099	0.877193	0.869565	1.162791
2	6	1.041667	1.010101	1.162791	1.020408	0.862069	1.25	1.282051
2	7	1.052632	1.06383	1.298701	1.06383	1.020408	1.754386	1.492537
2	8	1.030928	1.052632	1.086957	1.098901	0.990099	1.612903	1.315789
2	9	1	1.030928	1.020408	1.020408	0.900901	1.020408	1.111111
2	10	1.010101	1.041667	0.917431	1.098901	0.819672	.	0.970874
2	11	0.980392	0.877193	0.719424	1.06383	0.769231	.	0.649351
2	12	0.970874	0.877193	0.70922	1.075269	1.136364	.	0.458716
3	1	0.877193	0.75188	0.555556	1.020408	0.671141	0.141643	.
3	2	0.934579	0.793651	0.598802	1.06383	0.671141	0.188324	0.325733
3	3	0.952381	0.862069	0.675676	1.075269	0.75188	0.411523	0.552486
3	4	1.010101	0.917431	0.862069	1.123596	0.819672	0.588235	0.78125
3	5	1.030928	0.980392	1	0.980392	0.78125	0.775194	0.990099
3	6	1.041667	1	1.136364	1.010101	0.793651	1.351351	1.282051
3	7	1.041667	1.041667	1.25	1.06383	0.925926	1.923077	1.515152
3	8	1.030928	1.020408	1.123596	1.086957	0.884956	1.818182	1.612903
3	9	1.020408	0.980392	0.909091	1.123596	0.735294	0.813008	1.123596
3	10	1.010101	1.010101	0.877193	1.098901	0.719424	.	0.900901
3	11	1	0.884956	0.70922	1.06383	0.826446	.	0.684932
3	12	0.952381	0.869565	0.694444	1.041667	0.892857	.	0.362319

Format for ContSite Data File

Group	Station	Day Code	Month	Avg. Day
1	1	2	1	.
1	1	2	2	.
1	1	2	3	4930
1	1	2	4	4732
1	1	2	5	4543
1	1	2	6	4487
1	1	2	7	4589
1	1	2	8	4752
1	1	2	9	4418
1	1	2	10	.
1	1	2	11	4638
1	1	2	12	4445
1	1	3	1	.
1	1	3	2	.
1	1	3	3	4819
1	1	3	4	4763
1	1	3	5	4855
1	1	3	6	4311
1	1	3	7	4370
1	1	3	8	4574
1	1	3	9	9646
1	1	3	10	.
1	1	3	11	4481
1	1	3	12	4688