

Practice: Identifying Outliers and Influential Observations

Open the file **VSSTeamData.jmp** in JMP. Make sure that the five outliers for **Yield** are hidden and excluded.

1. Select **Fit Model** on the Analyze menu to fit a model for **MFI** and use all of the continuous predictors (**SA** through **Ambient Temp**) as model effects.
2. Select **Plot Studentized Residuals** from the top red triangle under **Row Diagnostics**. Look at the Residual by Predicted plot and the Studentized Residuals plot.

Are there any outliers in the Studentized Residuals plot?

A couple of residuals are outside the red limits, which indicates that they are potential outliers.

3. Save the Cook's D values to the data table. (From the top red triangle, select **Save Columns**, and then select **Cook's D Influence**.) Graph the Cook's D values using the **Distribution** platform.

Are there any influential observations?

None of the Cook's D values is greater than 1.0, so there are no influential observations.

Hide Solution

Close