

Troubleshooting with HEC-RAS

Workshop

Objective

This workshop will help students learn how to analyze HEC-RAS output to detect common hydraulic modeling problems.

Problems

There are six fully completed data sets, labeled **Troubleshooting1.prj** – **Troubleshooting6.prj**, loaded on each of the student computers. Each of the data sets represents some typical situation that we have encountered while reviewing HEC-RAS models. Each file has at least one major problem. Close examination may indicate a few lesser problems; however, only the major problems will be addressed in the workshop solutions.

Review each problem separately in the order that they are numbered. Perform the steady flow simulation for each data set to make sure that they run. Examine the output and the input data closely, and try to determine what is the problem. Write down what you think the problem is, and what you would do to fix the problem. If you have time, go ahead and fix the problem and re-run the data set (you are not required to fix the problem, only diagnose it and make suggestions on how to fix it).

Given the amount of time available for this workshop, only spend about ten minutes on each problem. If you have not found the problem in ten minutes, go on to the next problem. Good Luck!!!