

The following is a summary of errors and steps taken to run each model.

### Dudley Branch

Upon review of the Dudley Branch model, it was discovered that there was a units error in the reservoir "Reservoir-1". The following errors occurred when attempting to run this model:

**ERROR 41593: Could not load one or more storage tables for reservoir "Reservoir-1".**

**ERROR 12463: Units "ACFT" are not valid for paired data "Reservoir-1(Dudley\_ExistLU)" with type "Elevation-Storage".**

**ERROR 12463: Units "FEET" are not valid for paired data "Reservoir-1(Dudley\_ExistLU)" with type "Elevation-Storage".**

In order to fix this error, the units of the associated storage-discharge curve were simply changed from cubic meters to acre-feet. After this was corrected, the model performed as expected. The resulting peak discharges matched the flow values used in the HEC-RAS models.

### Indian Creek

Upon review of the Indian Creek model, it was discovered that there was a paired data table error in the storage-discharge table "Reach11(PROPCN12.IH1)". The following errors occurred when attempting to run this model:

**ERROR 40949: Computed storage in reach "Reach-11" exceeded maximum value in storage-outflow table "Reach-11(PROPCN12.IH1)".**

This error was corrected by deleting a redundant row of "0,0" in the storage-discharge table. After this issue was fixed, the models ran with no other errors. The resulting peak discharges matched the flow data used in the HEC-RAS models.

### Timber Creek

The HEC-HMS hydrologic model for Timber Creek was obtained from FEMA's Mapping Information Platform (MIP). No errors were observed while running the model. The resulting peak discharges matched the flow values used in the HEC-RAS models.

### Elm Fork Trinity River

The hydrology data obtained for the Elm Fork Trinity River included HEC-1 models for existing and future conditions for the 1-, 2-, 5-, 10-, 25-, 50-, 100- and 500-yr flood frequencies. The HEC-1 computer program was used to generate outputs for the 10-, 50-, 100- and 500-yr flood frequencies for existing conditions as required for the scope of the project. No errors were observed while running the models.

Detailed hydrographs were not available at desired locations using the default options in the input data. For the purpose of this project, additional hydrographs were generated at five locations in the vicinity of the project area by adding a KO card, which generates time series data at desired locations. In addition, a ZW card was also added to export the time series data into a .DSS file. The data was then exported into a spreadsheet using the HEC-DSSVue computer program. The process was repeated for all the 10-, 50-, 100- and 500-yr flood frequencies.

