

README for DSS Files for S&T Project 20047

This file contains instructions to run one of the hydrologic models developed for the Upper Colorado River Basin Decision Support Tool. Table 1 contains a list of all files needed to run the model. The files are configured to run the forecast on July 14, 2021.

Instructions:

1. Download the “DSS_Files_for_S&T_Project_20047.zip” file from RISE and save it to your local computer. Unzip the file.
2. Download the latest TSTool executable file from [OpenCDSS TSTool Downloads \(state.co.us\)](https://open.cdss.state.co.us/) and install the software in your computer.
3. Download CBRFC’s adjusted local forecast traces for July 14, 2021 from https://www.cbrfc.noaa.gov/outgoing/hup/2021/usbr_hup.20210714.csv and save the file along with all other files downloaded from RISE.
4. Open the TSTool program and load the HUPmeeting.TSTool command file (File -> Open -> Command File...).
5. After loading the command file, click on the Run All Commands button. TSTool will generate four plots showing the results of the model along with some of the input time series.

Table 1. List of required files to run a stand-alone version of the DSS.

File Name	File Description	File Format	Size
HUPmeeting.TSTool	TSTool command file: contains modeling code	Text	25KB
TimeSeriesProperties.xlsx	Contains times series properties required by the model (e.g. start and end dates)	Excel	11KB
usbr_hup.20210714.csv	Contains forecast time series from CBRFC. These are input time series for the model. This file is available at https://www.cbrfc.noaa.gov/outgoing/hup/2021/	Text, date-value	16KB
InputDailyTimeSeries.dv	Contains daily projected reservoir release time series. These are input time series for the model.	Text, date-value	11KB
InputHourlyTimeSeries.dv	Contains hourly observed reservoir release time series. These are input time series for the model.	Text, date-value	13KB
ObservedStreamflow_Hourly.dv	Contains observed streamflow data used to compare against modeled time series.	Text, date-value	7,344KB
AbvKremmlingSimulation.tsp	Plot template file to plot model outputs	Text	3KB
AbvDotseroSimulation.tsp	Plot template file to plot model outputs	Text	2KB
AbvCameoSimulation.tsp	Plot template file to plot model outputs	Text	2KB
AbvPalisadeSimulation.tsp	Plot template file to plot model outputs	Text	2KB