

Specify Sediment Yield Inputs

Select a Flow Duration Curve Source

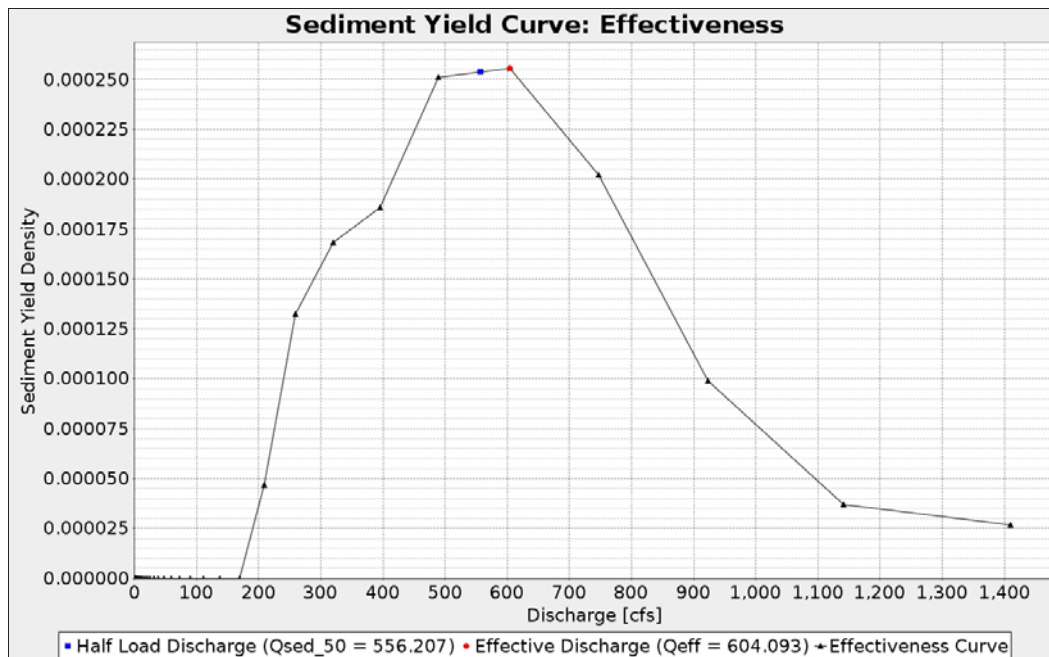
- Use Gauge Station Data: [Select A Flow Gauging Station](#)
- Use Regional Flow Duration Curve:
- Use SWAT-DEG:
- Use Uploaded Flow Duration Curve:

Selected Gauge Station

Database: USGS
Station ID: 06751150
Station Name: N FK CACHE LA POUFRE R BLW HALLIGAN RES NR VA DALE
Supervising Agency: USGS
Analysis Dates: 1998-03-14 to 2015-06-16

Sediment Yield Results:

Combining the information provided in the flow duration curve (magnitude and frequency) with the sediment transport at each flow results in an effectiveness curve of sediment production over the period of analysis.



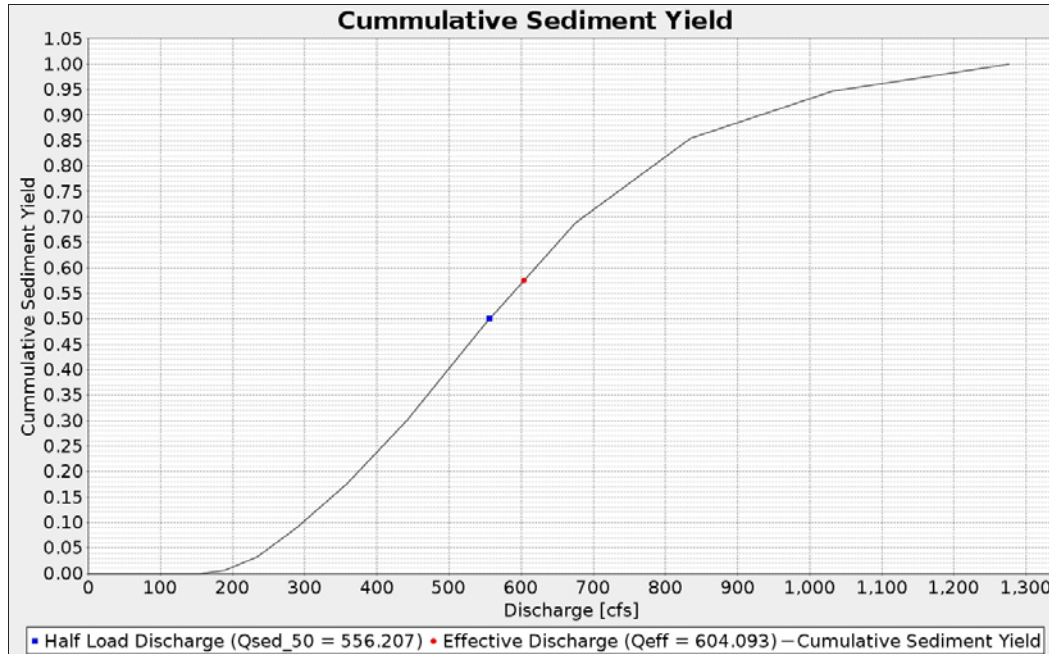
Analysis Summary:

General

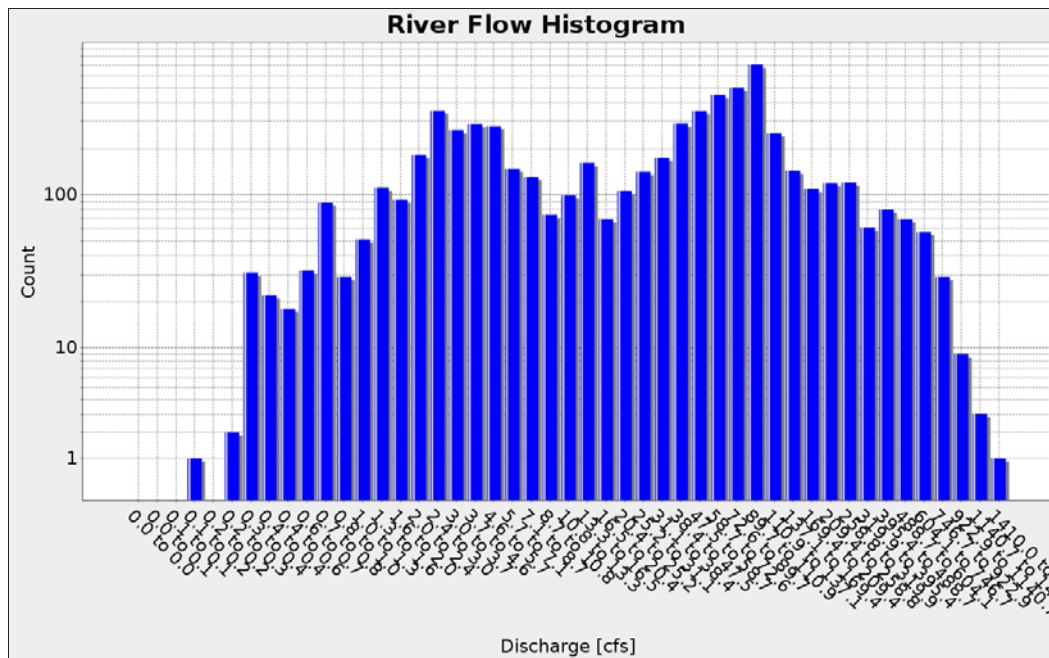
- Effective Discharge (cfs): 604.093

- Half-Load Discharge (cfs): 556.207

Cumulative Sediment Yield Graph:

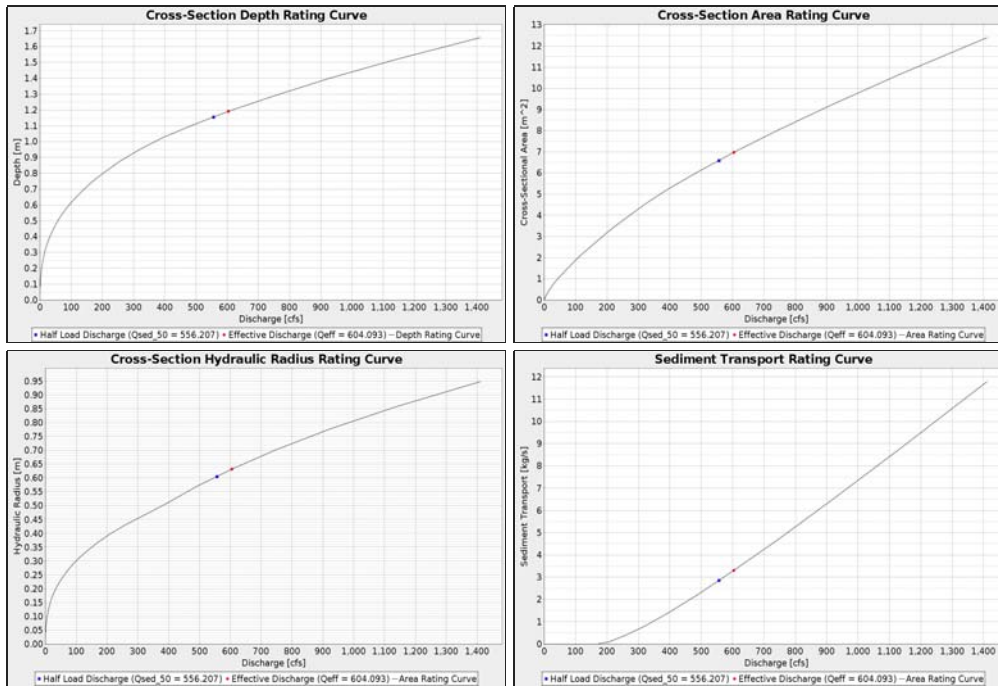


Flow Histogram:



Rating Curves:

For each flow provided in the flow duration curve, the normal-depth hydraulic properties of the flow are calculated for the cross-section. A summary of the resulting rating curves for the cross-section's hydraulic properties and sediment transport are provided below.



Sediment Transport Summary:

Sediment Transport Equation:

Martin and Church's Revisitation of
Bagnold's Bed Load Equation
(2000)

Transported Sediment Diameter:

60 mm

Flow Properties Summary:

Bottom Width:

5 m

Bed Slope:

0.01 m/m

References:

Bagnold, RA. 1980. "An Emperical Correlation of Bedload Transport Rates in Flumes and Natural Rivers." *Royal Society of London Proceedings A372:453-473.*

Martin, Yvonne, Michael Church. 2000. "Re-Examination of Bagnold's Empirical Bedload Formulae." *Earth Surface Processes and Landfor* 25:1011-1024.

Disclaimer:

These outlines, the tables, and the graphs are not intended for final designs, but instead are intended to inform preliminary thinking on hydraulics and guide future analyses. The developers are not liable for use of this model (including but not limited to information extracted : results).