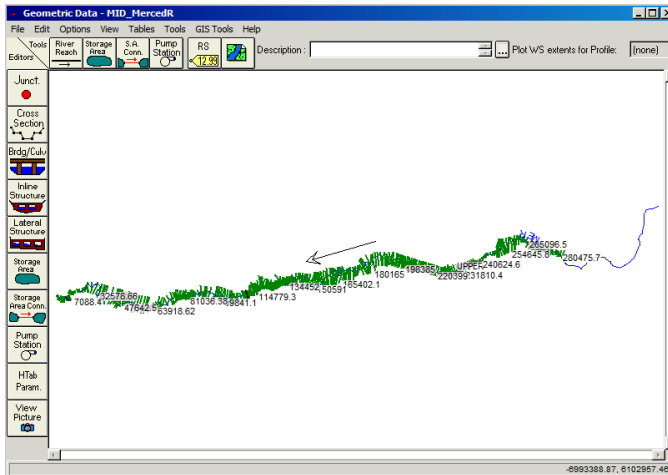


HEC-RAS Development, Dewberry

HEC-RAS Development & Calibration



- Unsteady channel hydraulic modeling
- Calibration
- Water quality modeling
 - temperature
- Sediment transport modeling
 - Full unsteady modeling capability in the latest v4.1

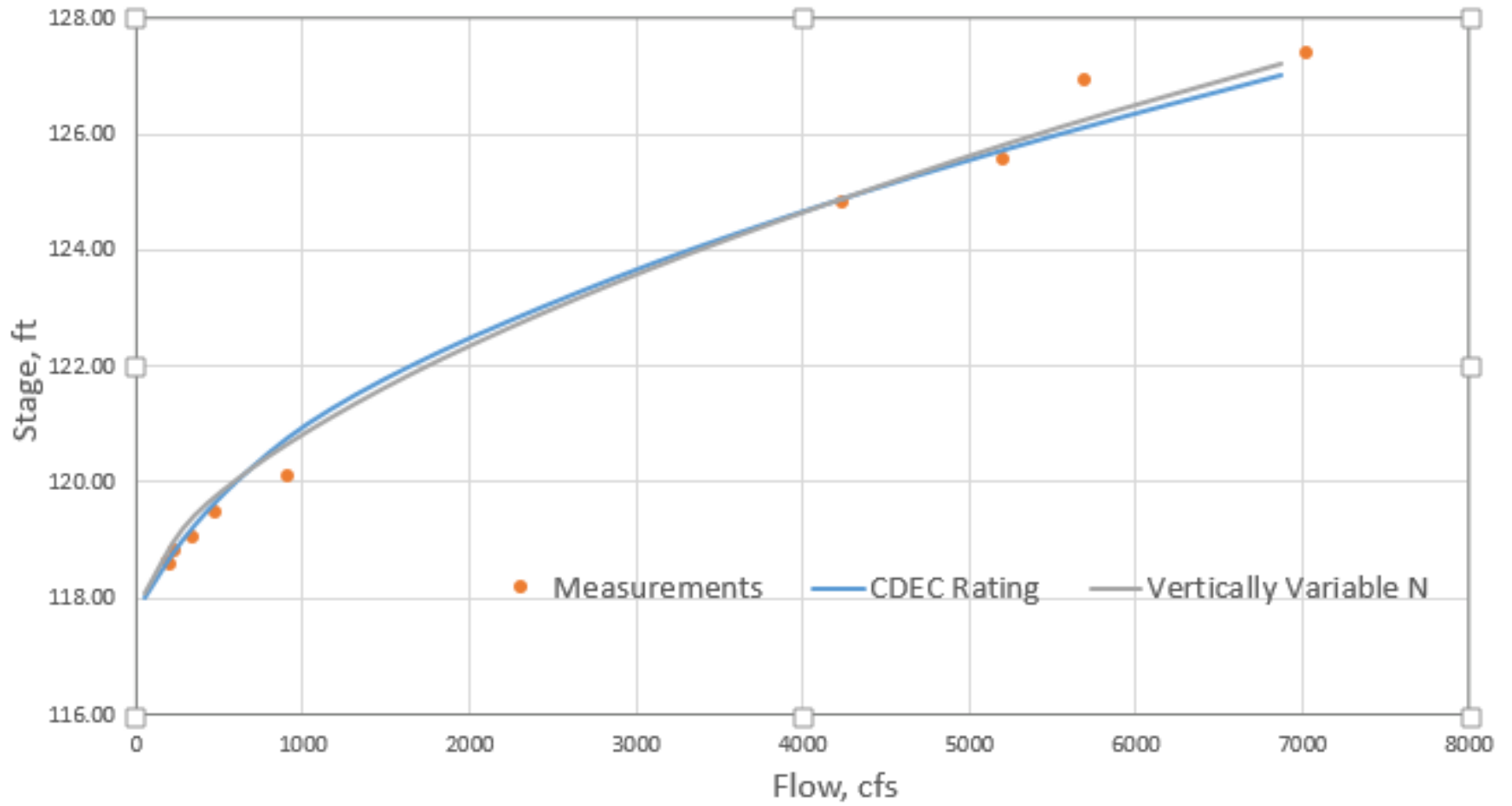


HEC-RAS for MID

- Develop a combined unsteady hydraulic modeling of Merced River from the Exchequer Dam to San Joaquin River
 - New model development between Exchequer Dam and Cressey
 - Existing DWR's model of Merced River between Cressey and San Joaquin River
- Calibrate to available high water marks and gage record
- Add to HEC-RTS



Merced R at Shaffer Bridge (MBN) w/ Combined DEM



Stage and Flow Hydrographs

File Type Options Help

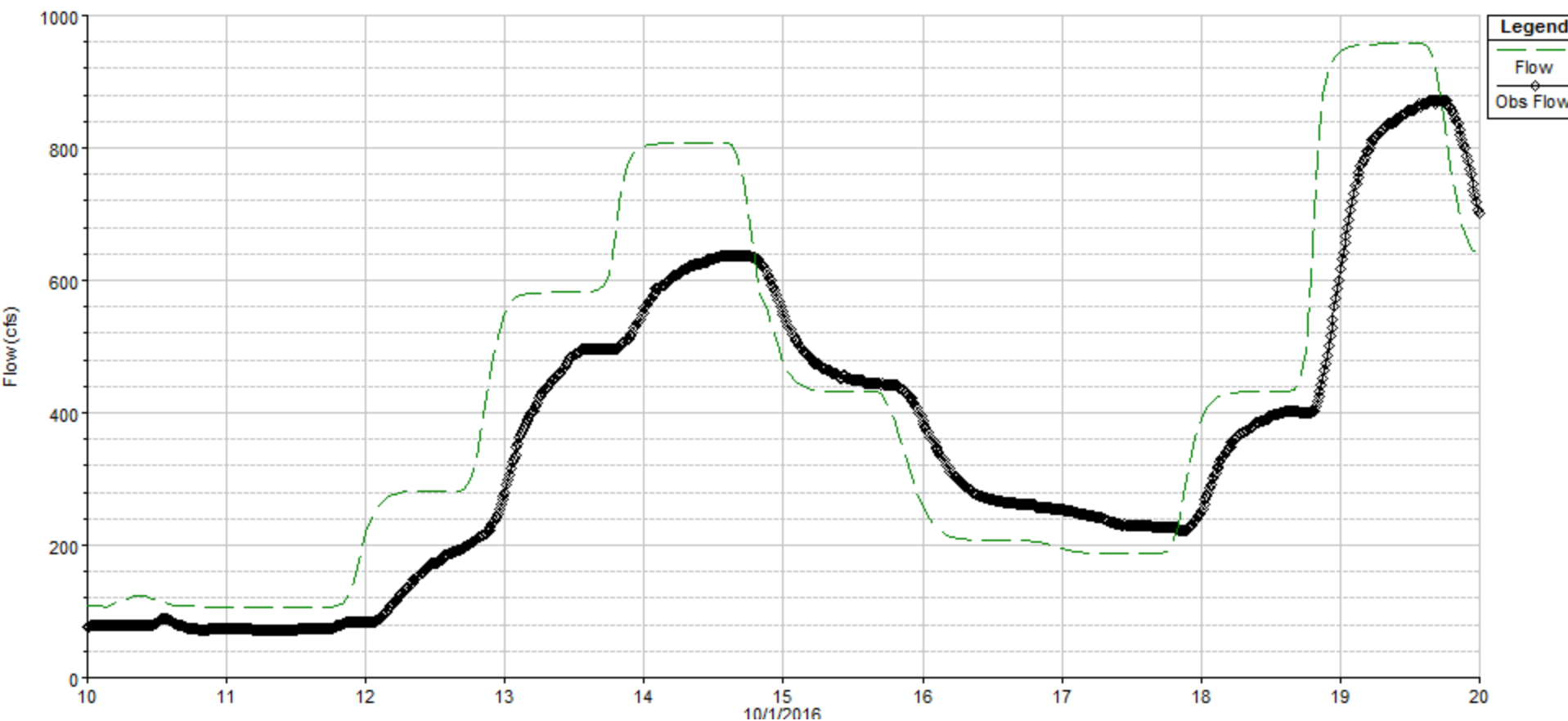
River: MER
 Reach: UPPER
 River Sta.: 175841.4 Obs Q

Time Series	Maximum	Time at Max	Volume(acre-ft)	Time Diff	Vol Diff	Vol Diff (%)
1 Stage	120.86	19Oct2016 1200				
2 Flow	956.99	19Oct2016 1300	8229.60			
3 Obs Flow	871.00	19Oct2016 1515	7086.39	135.00 min	-7086.39	16.13

Plot Stage
 Plot Flow
 Obs Stage
 Obs Flow
 Use Ref Stage

Stage Flow | Table | Rating Curve

Plan: Oct2016 River: MER Reach: UPPER RS: 175841.4



Provided Estimates of timing of Fish Pulse arrival at Cressey within hours

