

USGS Activities in the Pecos River Basin

Alex Graziano

Hydrologist

New Mexico Water Science Center

September 10, 2020

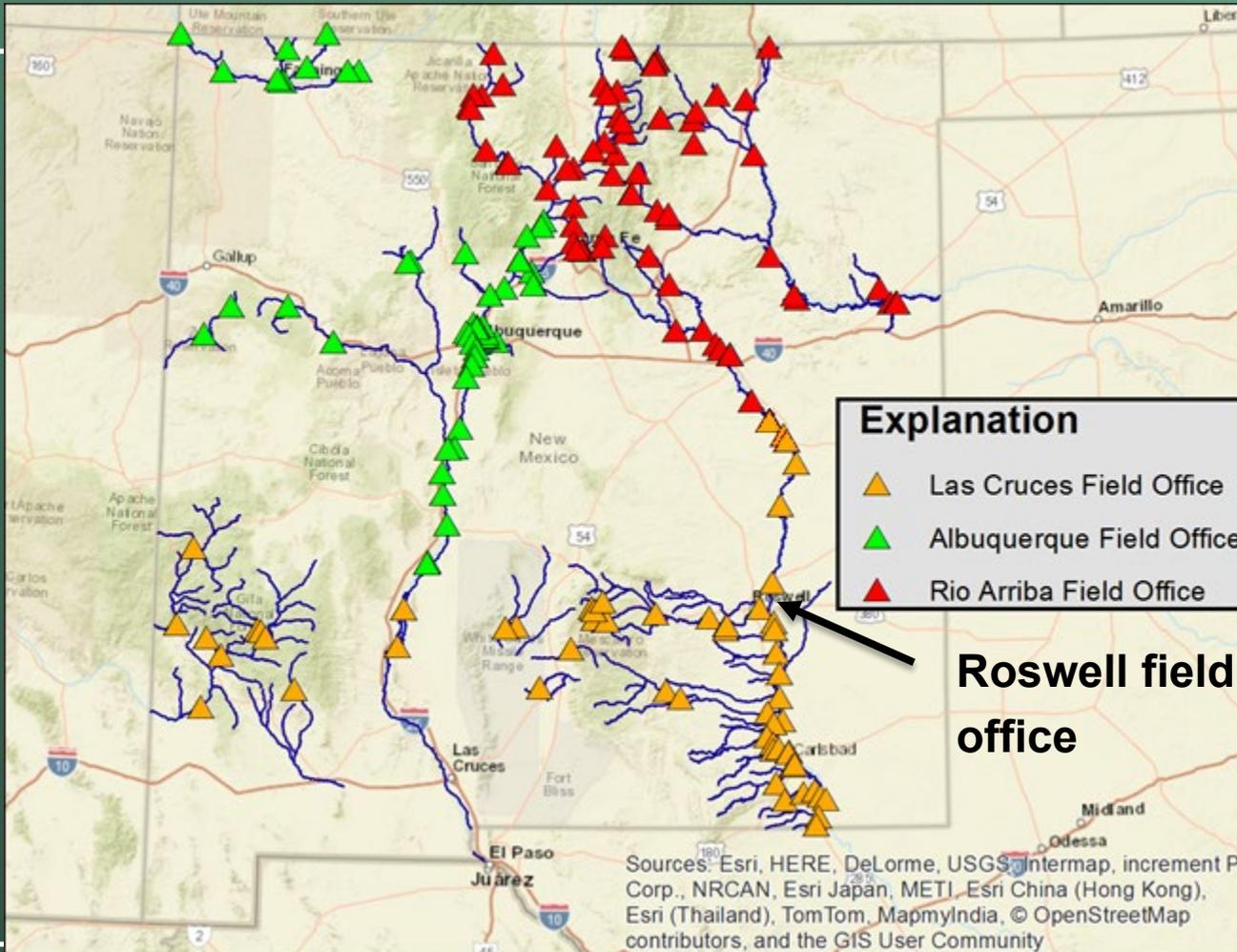
Outline

- Pecos River Basin Overview
 - NMWSC Streamgauge Network
 - Pecos River Basin Streamgaging Activities
 - Upper NM Pecos Hydrographs
 - Lower NM Pecos Hydrographs
 - Webcams
 - Newly Installed Streamgages
 - Pecos River Basin Publications
 - Questions
-

Pecos River Basin Overview

- **85 streamgaging stations in Pecos River Basin operated by USGS**
 - 18 operated in cooperation with Pecos River Commission
 - 51 operated in conjunction with other federal, state, and local agencies
 - 16 crest-stage gages operated for the New Mexico Department of Transportation
- **14 stations where water quality data are collected by USGS in lower Pecos River Basin**
 - Select water-quality parameters are continuously monitored at 12 of these stations

NMWSC Streamgauge Network

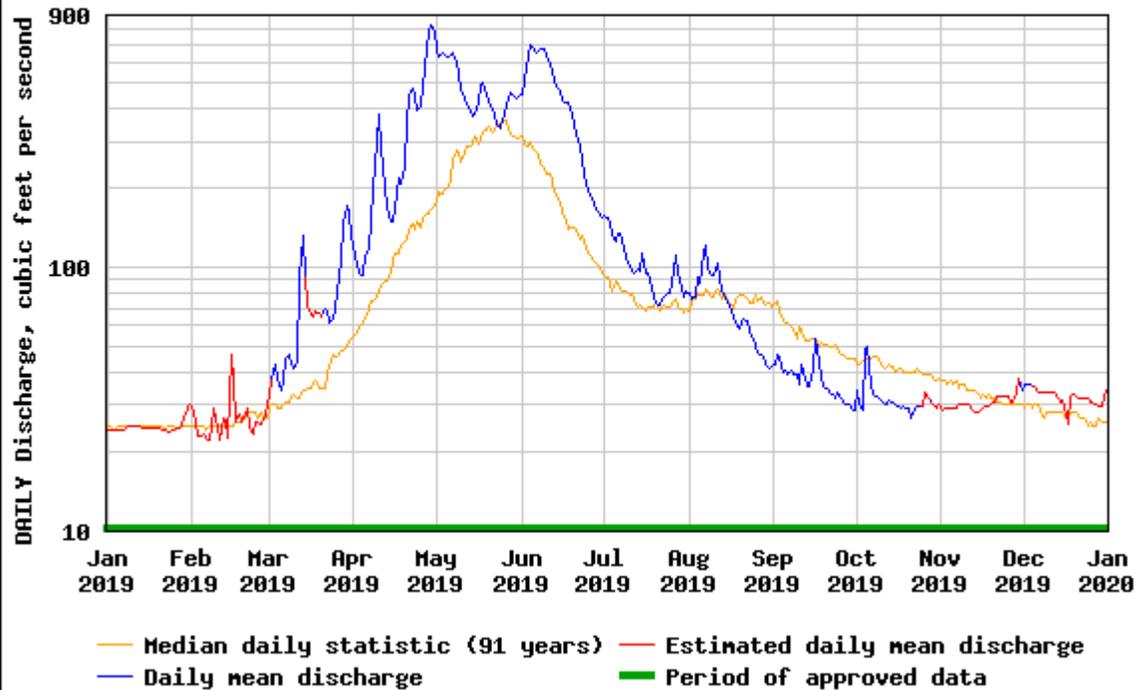


- Pecos River Basin (NM only)
- Rio Arriba Field Office
 - Streamgages above Lake Sumner
- Las Cruces Field Office
 - Streamgages at Lake Sumner and below

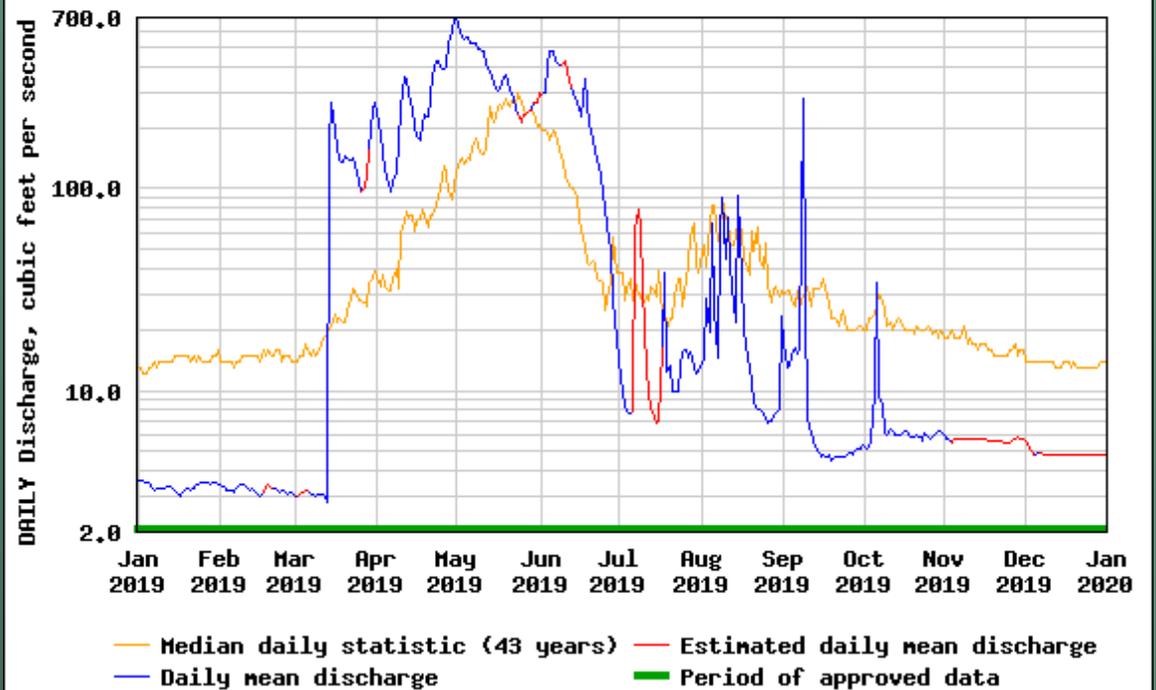
Upper NM Pecos



USGS 08378500 PECOS RIVER NEAR PECOS, NM



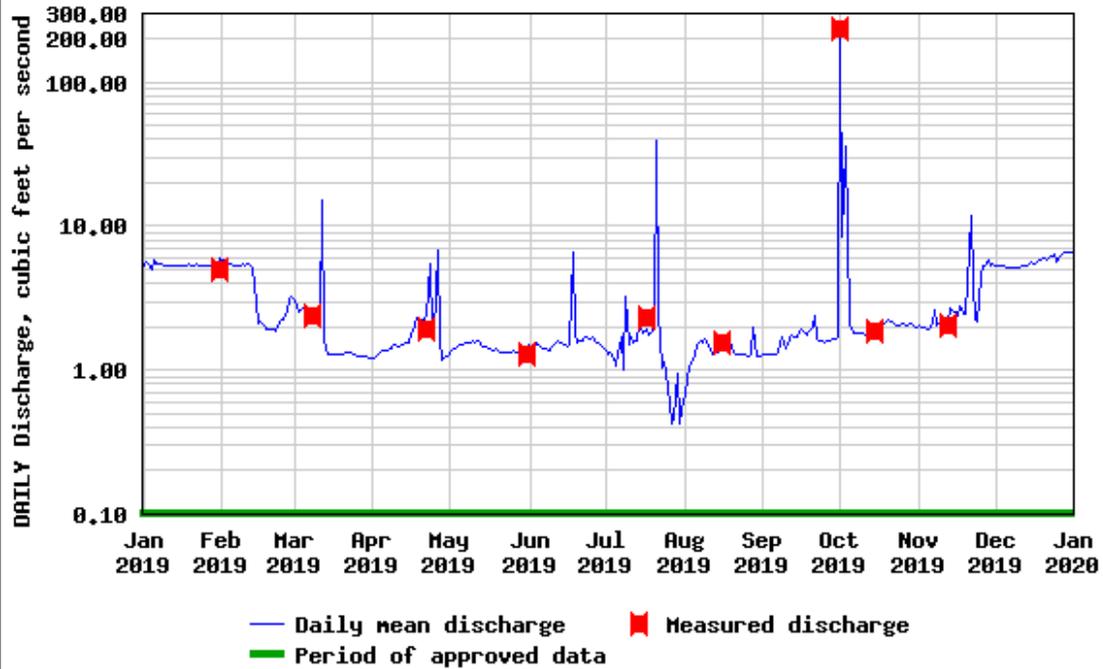
USGS 08382650 PECOS RIVER ABOVE SANTA ROSA LAKE, NM



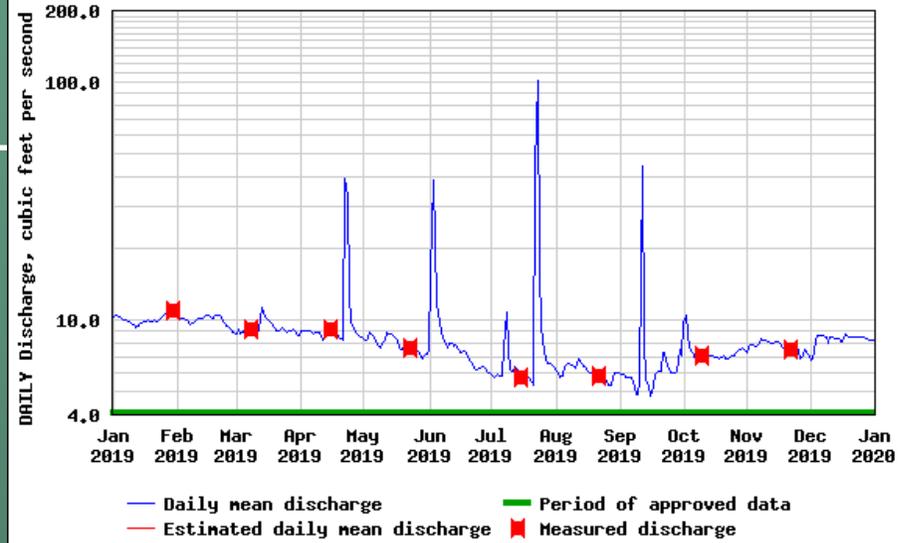
Lower NM Pecos



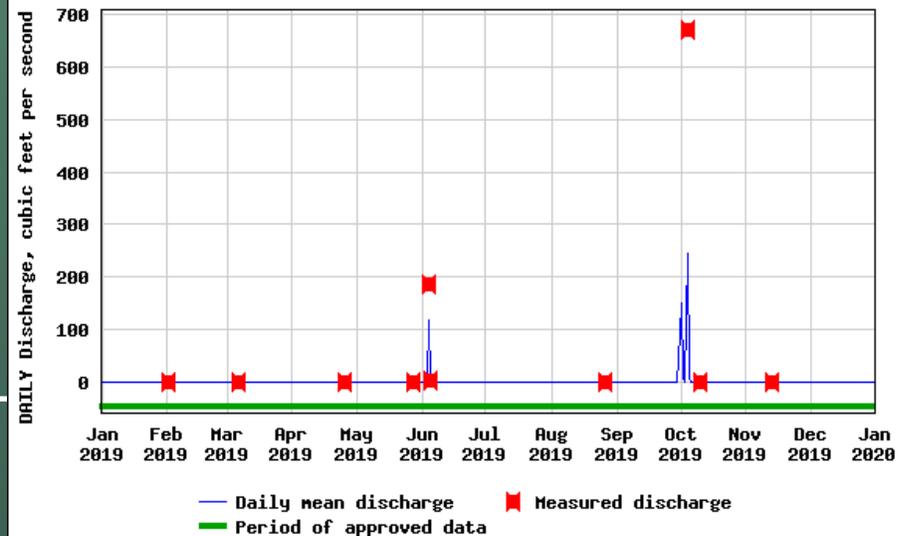
USGS 08393610 RIO HONDO NEAR ROSWELL, NM



USGS 08405500 BLACK RIVER ABOVE MALAGA, NM



USGS 08400000 FOURMILE DRAW NR LAKEWOOD, NM



Webcams

<https://www.usgs.gov/centers/nm-water/science/new-mexico-water-science-center-webcams>

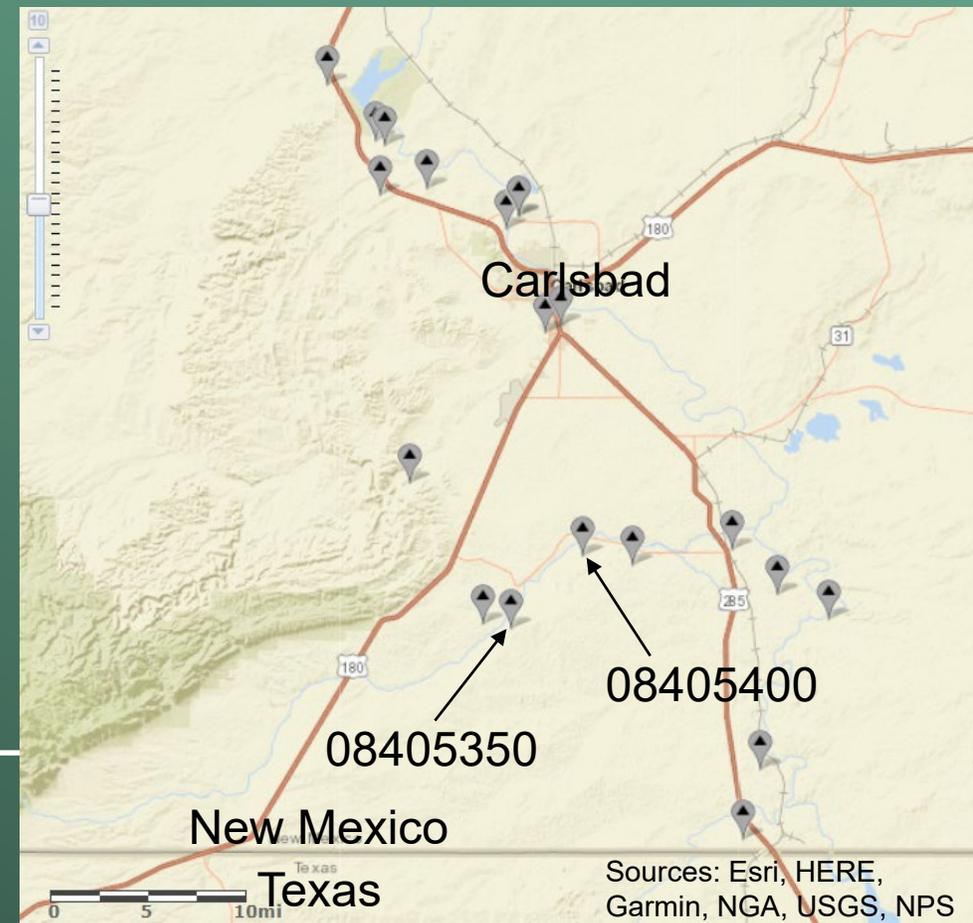
- Pecos Web Camera near Roswell, NM (334716104175400)
- Pecos River near Acme, NM (08386000)



Pecos River near Acme, NM (08386000)

Newly Installed Pecos River Basin Streamgages

- Gages operated in cooperation with U.S. Fish and Wildlife Service in support of the endangered Texas Hornshell Mussel recovery plan
 - Black River at Harkey Crossing near Malaga, NM (08405400)
 - Gage Height and Discharge (low flow only)
 - Temperature
 - Specific Conductance
 - Dissolved Oxygen
 - Black River below Blue Springs near Whites City, NM (08405350)
 - Gage Height and Discharge (low flow only)



Publications

- **Pecos River Basin Salinity Assessment, Santa Rosa Lake, New Mexico, to the Confluence of the Pecos River and the Rio Grande, Texas, 2015**
 - Prepared in cooperation with the U.S. Army Corps of Engineers, New Mexico Interstate Stream Commission, Texas Commission on Environmental Quality, and Texas Water Development Board
 - By: Natalie A. Houston, Jonathan V. Thomas, Patricia B. Ging, Andrew P. Teeple, Diana E. Pedraza, and David S. Wallace
 - <https://pubs.er.usgs.gov/publication/sir20195071>



Prepared in cooperation with the U.S. Army Corps of Engineers, New Mexico Interstate Stream Commission, Texas Commission on Environmental Quality, and Texas Water Development Board

Pecos River Basin Salinity Assessment, Santa Rosa Lake, New Mexico, to the Confluence of the Pecos River and the Rio Grande, Texas, 2015



Scientific Investigations Report 2019–5071

U.S. Department of the Interior
U.S. Geological Survey

Questions?

