

Water Availability Division
Office of Water
Texas Commission on Environmental Quality





Presented by: Georgina P Bermea



Rio Grande River (Rio Bravo)

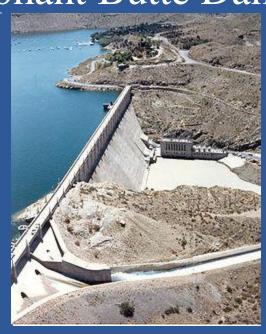


Dams Upstream of Amistad

Elephant Butte Dam

Cochiti Dam





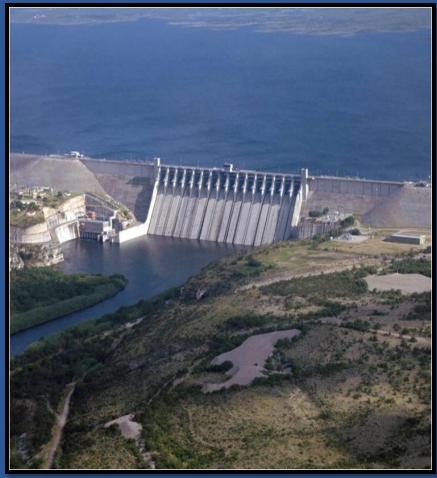
Caballo Dam

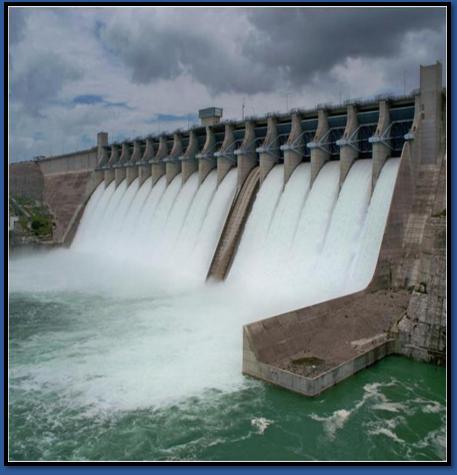


Located in New Mexico

Amistad International Dam

- Located west of Del Rio in Val Verde County
- Operated and maintained by International Boundary and Water Commission (IBWC) and its Mexican counterpart, CILA



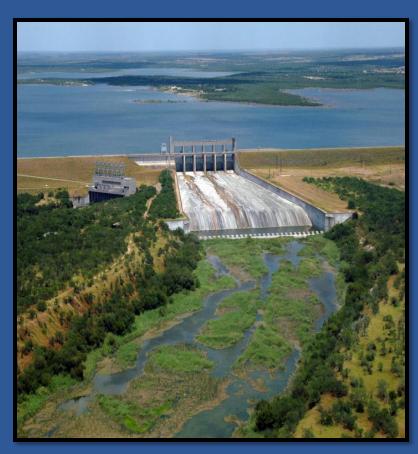


Before 2010

After hurricane Alex (2010)

Falcon International Dam

- Located at the intersection of Starr county and Zapata county
- Operated and maintained by the IBWC and its Mexican counterpart, CILA





Before 2010

After hurricane Alex (2010)

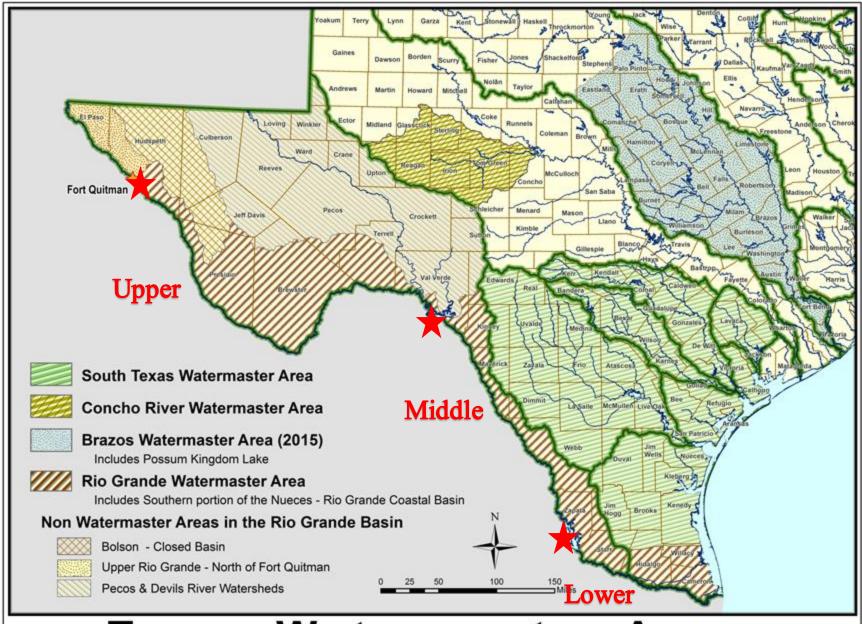
Anzalduas Dam

- Located in Hidalgo County
- Operated by the IBWC and its Mexican counterpart, CILA

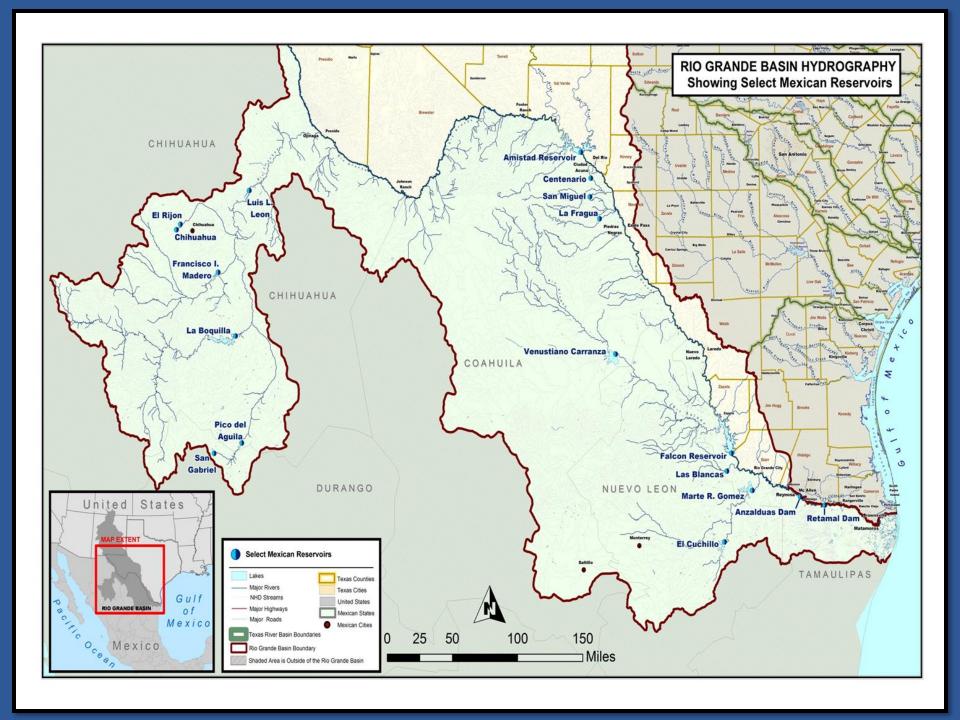


Rio Grande Watermaster Program

- The Valley water suit between the State of Texas vs. HCWC&ID No. 18 was finalized in 1971 resulting in the final adjudication of the Lower Rio Grande water rights and appointment of a Watermaster.
- The final adjudication of the Upper Rio Grande water rights was completed in 1977
- The final adjudication of the Middle Rio Grande Water rights was completed in 1983



Texas Watermaster Areas



Major Rules and Regulations

1944 Water Treaty Between Mexico and the United States

Enforced by IBWC for the United States

Texas Water Code Chapter 11

• Texas Statute in dealings with water

Texas Administrative Code

• State and agency rules and their respective categories. Watermaster Program deals with chapters 295, 297 and 303

Rio Grande Watermaster Program







Responsible for allocating, monitoring, and controlling surface waters in Rio Grande Basin

Jurisdiction covers
1173 miles of the
Rio Grande
Administers
approximately 1600
Water Right
Accounts.

Rio Grande Watermaster Program

Major Water Uses

Municipal

Mining

Industrial

Recreation

• Domestic

Hydroelectric

Irrigation

Livestock

Watermaster Functions

River Operations

Water Accounting

• River Surveillance

River Operations

- Calculations of the Water Demand
- Communication with IBWC on a daily basis on river conditions and request water releases from Amistad, Falcon and Anzalduas dams
- Communication with Water Right holders on daily basis
- Monitor IBWC gaging stations to track flows

Water Accounting

• Authorization of the water requested by issuing a diversion certification

 Processing of the pump operation report as submitted by the water user to account for the water used

• Processing of water adjustments between diverters and users

Water Accounting cont'd...

- Processing water contracts between water right holders
- Processing temporary water use permits
- Generation of the Monthly Report explaining the status of the water account

All water accounting is processed using TXWAS
(Texas Watermaster Accounting System)

Water Accounting

Diversion Certification

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY DIVERSION CERTIFICATE

POST AT OR NEAR PUMP WHEN DIVERTING

Acct No: 0000-000 Authorization Number: 418623

Received By: A C

PHONE

Owner> John Doe Farms

Date: 01/27/2014 Time: 08:33

Is authorized to divert:

Diverter:

Method: P

Deputy: Quintanilla Reach: 1

re-feet of regular water with pump 7 the period and rate shown below:

John Doe 1804 W Jefferson Ave Harlingen, Texas 78550

Acre Feet 02/16/2014 08:00 02/16/2014 17:00 900 1.4912 02/17/2014 08:00 02/17/2014 17:00 900 1.4912 02/18/2014 08:00 02/18/2014 17:00 900 1.4912 02/19/2014 08:00 02/19/2014 17:00 900 1.4912 02/20/2014 08:00 02/20/2014 17:00 900 1.4912 02/21/2014 08:00 02/21/2014 17:00 900 1.4912 02/22/2014 08:00 02/22/2014 17:00 900 1.4912

Comments:

Watermaster: Jose G. Luna

Please retain this copy for your records

Water Accounting

- Pump Operation Report (POR)
- These reports must be returned with meter readings in a timely manner

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY PUMP OPERATION REPORT Acct No: Authorization Number: 418623 Received By: **Client Name** Date: 01/27/2014 Time: 08:33 Is authorized to divert: 10.4384 acre-feet of regular water with pump # or the period and rate shown below: Begin Date End Date GPM Acre Feet Meter Reading 02/16/2014 08:00 02/16/2014 17:00 900 1.4912 Beginning Ending 02/17/2014 08:00 02/17/2014 17:00 900 1.4912 02/18/2014 08:00 02/18/2014 17:00 900 1.4912 02/19/2014 08:00 02/19/2014 17:00 900 1.4912 02/20/2014 08:00 02/20/2014 17:00 900 1.4912 02/21/2014 08:00 02/21/2014 17:00 900 1.4912 02/22/2014 08:00 02/22/2014 17:00 900 1.4912 Remarks: Signature: THIS COPY MUST BE RETURNED TO WATERMASTER WITHIN 5 DAYS FOLLOWING END OF CERTIFICATION PERIOD

Watermaster Surveillance



Ensure diverters have authorization to pump State water

- Diverters must request water prior to pumping
- 30 TAC §303.11(b)



Ensure diverters have a working measuring device on line during operation

• 30 TAC 303.11(e)







Ensure diverters are within their diversion certification

• 30 TAC 303.11(g)



Ensure diverters have an accessible pumpsite that can be checked conveniently and safely

• 30 TAC 303.11(e)









Ensure a note is posted at or near the pump site to demonstrate authorization to divert

• 30 TAC §303.11(d)



Assign Pump Numbers based on river mile or IBWC tract in which the Water Right is located



Provide Technical Assistance to water users



Observations of river conditions

Respond to water right complaints

• Maintain records of Deputy Daily Inspections

Other Watermaster duties assigned

Texas Commission on Environmental Quality





Georgina P Bermea Rio Grande Watermaster 1804 West Jefferson Avenue Harlingen, TX 78550 (956) 430-6056 (Office) (956) 430-6052 (Fax) riowm@tceq.texas.gov