
LOWER RIO GRANDE FLOOD CONTROL PROJECT



Mercedes Field Office

- *47 Employees Total*



Project Features

**ANZALDUAS
DAM**

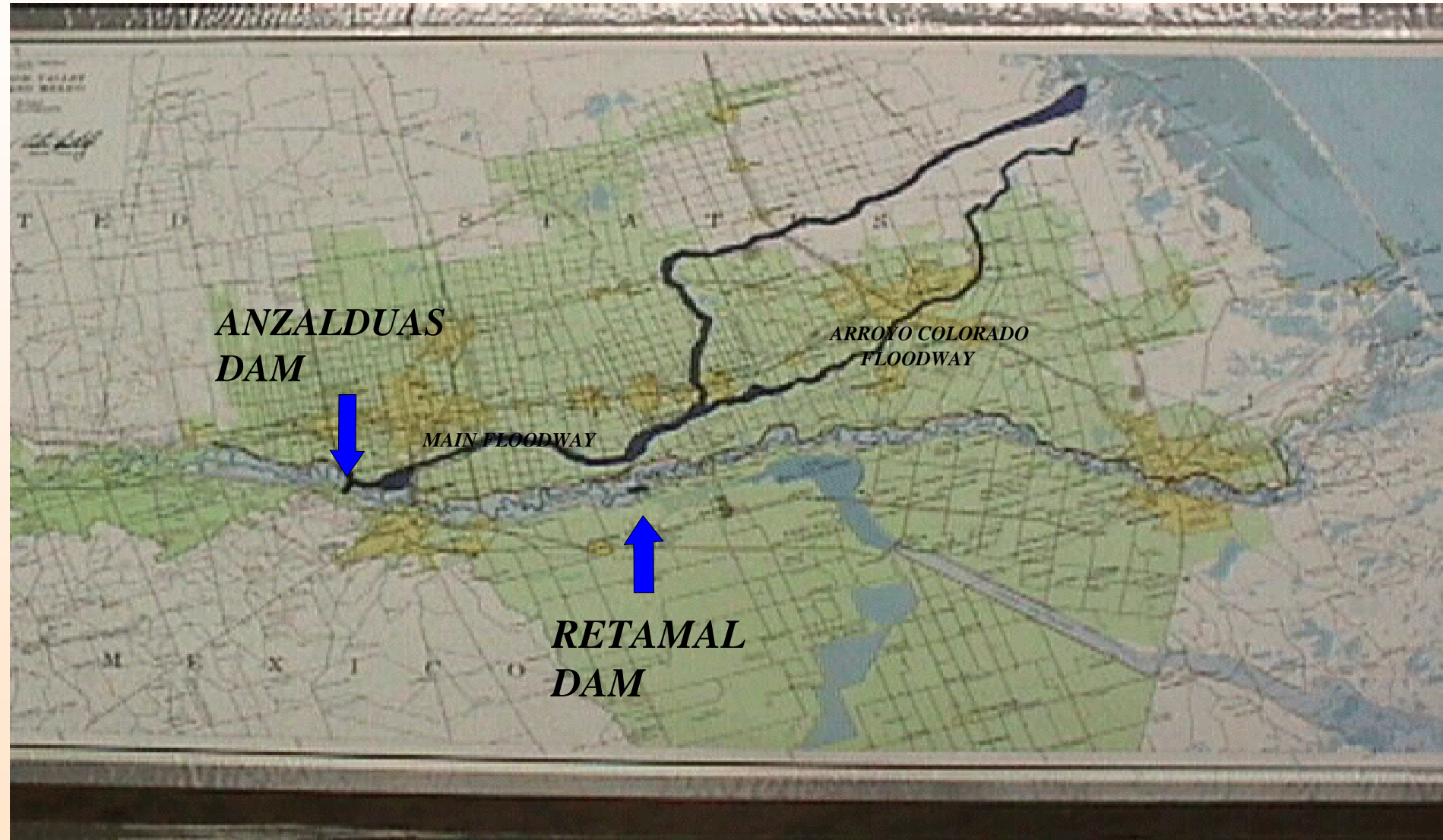


MAIN FLOODWAY

**ARROYO COLORADO
FLOODWAY**



**RETAMAL
DAM**



Lower Rio Grande Flood Control Project

- *270 miles of levees*
- *30,000 acres of interior floodway*
- *420 drain structures*
- *180 irrigation structures*
- *Provides flood protection for hundreds of thousands of U.S. residents*

Mowing Operations

- *8,000 Acres Mowed Yearly*



Rio Grande River Clearing & Wildlife Corridor

- *34.5 Mile Reach in Brownsville, Texas*
- *Clear 75' from Water's Edge*
- *33' Continuous Wildlife Corridor*



Rio Grande River Clearing & Wildlife Corridor



Levee Roadway Maintenance

- *270 Miles of Levee*



Levee Structure Maintenance

- *550+ Drainage & Irrigation Structures*



Traffic Control Operations

- 290 Gates & 750 Signs



Levee Reconditioning



Pilot Channel/Drainage Ditch Cleanout

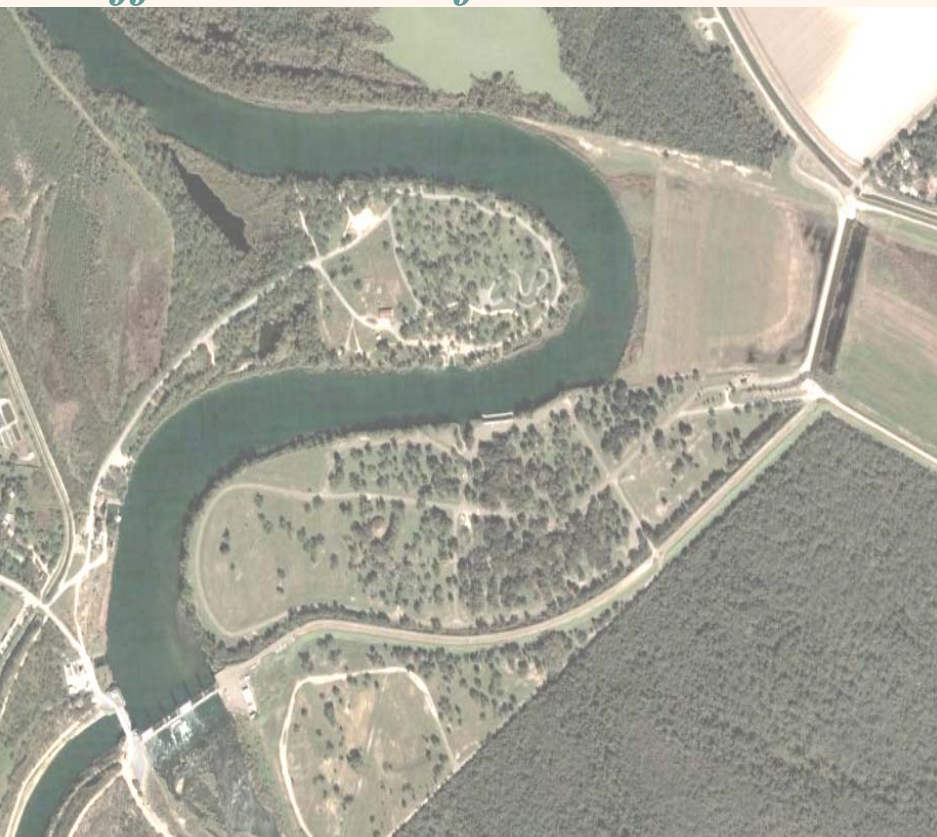


Hydrographic Operations



Anzalduas Dam

- *Joint U.S./Mexico O&M*
- *Assure diversion of the U.S. share of floodwaters to the interior floodway*
- *Diversion of water to Mexico's irrigation canal*
- *Effect releases for downstream water users in both countries*



Anzalduas Dam

- *24 Hour Operation*
- *Perform Maintenance to 2 Gates Per Year*



Retamal Dam

- *Began Operation May, 1975*
- *Joint U.S./Mexico O&M*
- *To enable Mexico to divert to its interior floodway its share of Rio Grande floodwaters*
- *To limit flood flows at Brownsville-Matamoros*



Banker Weir/Inlet

- *Inlet To U.S. Interior Floodway*
- *Crest Elevation Of 106.50'*



Flood Operations



*1973 Flood
Anzalduas Dam*



*1976 Flood
Retamal Dam*

Flood Operations



*1976 Flood
Mouth of Rio Grande with 13,500 cfs*

Flood Operations



*1978 Flood
Banker Weir with 9,200 cfs*



*1978 Flood
Divisor Dike with 10,000 cfs*

Morillo Drain Project

- *Extends for 75 miles through Tamaulipas from 8 miles above Anzalduas Dam to the Gulf of Mexico*
- *Conveys highly saline return flows from a Mexican irrigation district to the Gulf of Mexico*
- *Costs shared by both countries and Lower Rio Grande Valley water users*



Morillo Drain Project



Morillo Drain Project

- *Canal Capacity of 3cms*



Morillo Drain Project



Morillo Drain Encasement Project



Cutting of Pipe Sections



Preparation of Pipe Section before Installation

Morillo Drain Encasement Project



Start of Project – Pipe Outlet



Laying of Pipe

Morillo Drain Encasement Project



Hauling of Pipe Section by the Excavator



Installation of Seals at Pipe Joint

Morillo Drain Encasement Project



Connecting Pipe Sections



Connecting Pipe Sections

Morillo Drain Encasement Project



Compaction of Material Along Pipe



Compaction of Material Above the Pipe

Morillo Drain Encasement Project



Construction of Outlet Headwall



Finished Outlet Headwall

Morillo Drain Encasement Project



Construction of Inlet Headwall



Finished Inlet Headwall

Morillo Drain Encasement Project



Manhole



Removal of Berm in Canal

Morillo Drain Encasement Project



Water Released Into Inlet Headwall



View of Canal and Inlet Headwall

Morillo Drain Encasement Project



Water Discharged at Outlet Headwall



Downstream View of Canal

Morillo Drain Encasement Project



**Embankment Erosion at Morillo
Drain Encasement Site**



**Embankment Erosion at Morillo
Drain Encasement Site**