Rio Grande Canalization Project

- Constructed 1938-1943
- Water delivery and flood control project
- 106 river miles from Percha Dam, NM to American Dam at El Paso, TX
- 130 miles of flood control levees
Levee Terminology

- Riverside
- Levee
- Landside

- Freeboard
- Base Flood Elevation
  (1% annual chance of occurrence) = 100yr event
- Structural Integrity
- Slope failure
- Foundation
- Underseepage (sand boils)
- Overtopping
- Through seepage
Current
Levee Status – Doña Ana/El Paso County

- Levee Height is deficient and Plating is required for levees in Doña Ana County
- Levee Height is deficient and Plating is required for in El Paso County
- New Levee and Floodwall for Canutillo
Levee Status – Doña Ana County

- USIBWC will raise and add plating to:
  - West Levee
    - Hatch Siphon to Bignell Arroyo
  - Picacho Flume to NM State Park
  - Mesilla Dam to New Nemexas Drain
Levee Status – Doña Ana/El Paso County

- USIBWC will raise and add plating to:
  - East Levee
    - Selden Canyon to Vinton Bridge
    - Borderland Bridge to Electric Plant

NEW LEVEE/FLOODWALL

- East Levee
  - Canutillo, Vinton Bridge to Borderland Bridge
LEVEE ENHANCEMENT
TYPICAL SECTION
EAST LEVEE
SELDEN CANYON TO VINTON BRIDGE
MAP 1 of 5
EAST LEVEE
SELDEN CANYON TO VINTON BRIDGE
MAP 2 of 5
EAST LEVEE
SELDEN CANYON TO VINTON BRIDGE
MAP 3 of 5
EAST LEVEE
SELDEN CANYON TO VINTON BRIDGE
MAP 4 of 5
EAST LEVEE
SELDEN CANYON TO VINTON BRIDGE
MAP 5 of 5
EAST LEVEE
CANUTILLO AREA

EAST LEVEE
UPSTREAM
OF VINTON

LEVEE/FLOODWALL
-5.60 MILES

VINTON BRIDGE TO
BORDERLAND BRIDGE

END OF
LEVEE/FLOODWALL
AT
BORDERLAND BRIDGE
WEST LEVEE
HATCH SIPHON TO BIGNELL ARROYO
WEST LEVEE
PICACHO FLUME TO NEW MEXICO STATE PARK
WEST LEVEE
MESILLA DAM TO NEMEXAS DRAIN
MAP 2 OF 3
WEST LEVEE
MESILLA DAM TO NEMEXAS DRAIN
MAP 3 OF 3
LEVEE ENHANCEMENT EQUIPMENT ON LEVEE
LEV EE ENHANCEMENT EQUIPMENT
Why Perform Levee Improvements?

- FEMA is updating flood insurance rate maps.
- FEMA requires levees to contain the 100-year flood with 3 ft. freeboard.
- USIBWC notified FEMA in 2006 that it could not certify all levees as meeting this requirement.
FEMA Contact Information

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Upper Rio Grande Levee Work Planned for 2009 Through 2011

Levee Enhancement

- A crew is currently working on the East Levee progressing to the North.
- Projection is to complete levee enhancement in Mesilla Valley
- Enhance West levee in Rincon Valley
- Design Canutillo levee improvements 2009
WORK EXPECTATIONS

- Working Hours:
  - Monday – Friday 7:00 Am to 5:00 PM (Some Saturdays Possible) subject to change

- Noise: Construction Equipment

- Dirt and Dust:
  - USIBWC will manage dust

- Levee Traffic:
  - Construction Equipment/Pickups
INTERNATIONAL BOUNDARY AND WATER COMMISSION, UNITED STATES AND MEXICO

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