

**INTERNATIONAL BOUNDARY AND WATER COMMISSION
UNITED STATES AND MEXICO
UNITED STATES SECTION**

SEDIMENT CONTROL DAMS



OCTOBER 2014



PURPOSE

- **REDUCE FLOOD PEAKS AND SEDIMENT INFLOWS INTO THE RIO GRANDE**

- Reduce flood damages to cropland and irrigation facilities

- **REDUCE THE AVERAGE ANNUAL MAINTENANCE COST FOR THE RIO GRANDE CANALIZATION PROJECT**



BACKGROUND

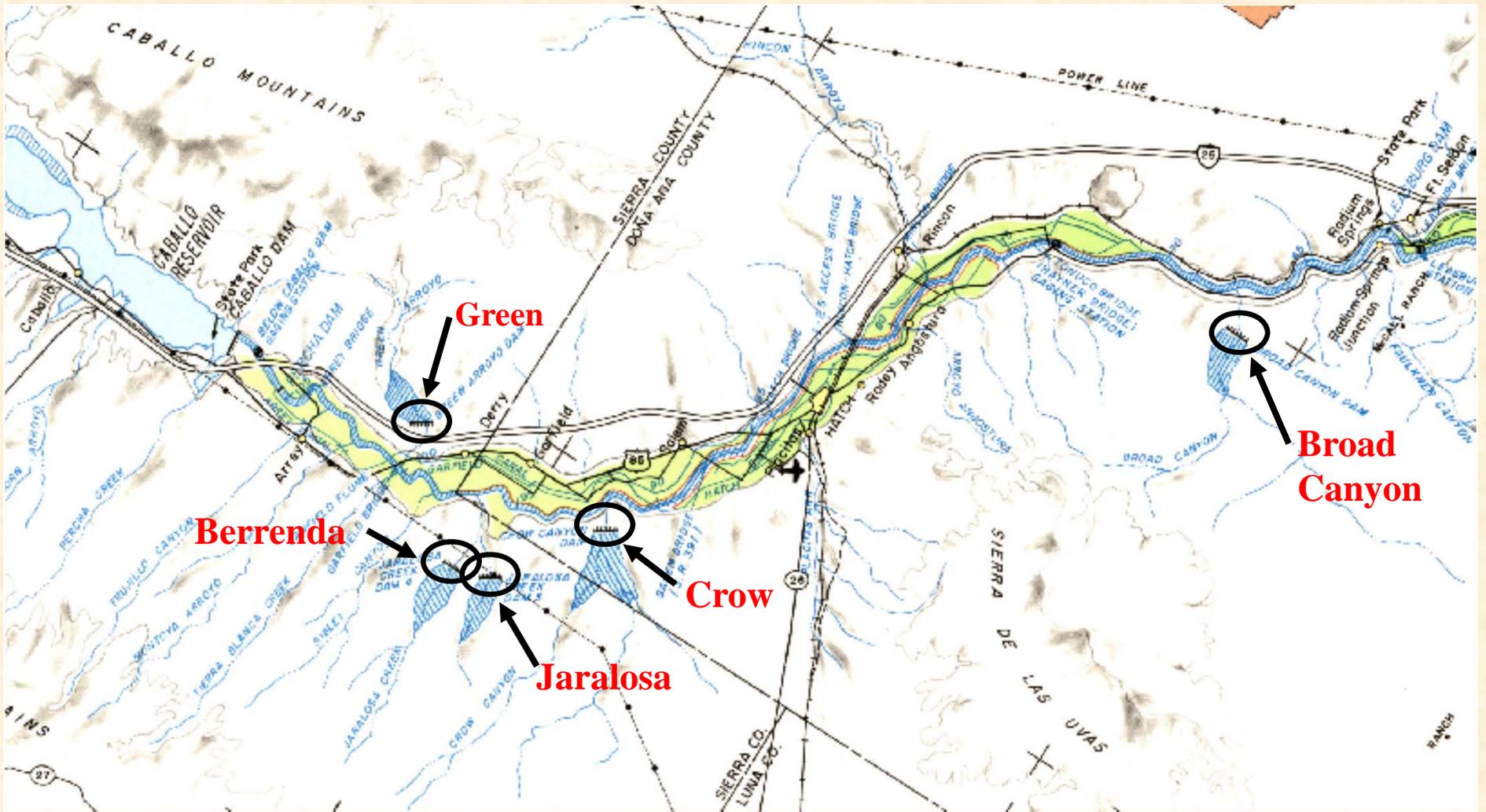
- 1960 - USIBWC requested the Soil Conservation Service (now Natural Resources Conservation Service) to conduct studies to control sediment inflow into Rio Grande.
- NRCS proposed dams at eleven arroyos
- Five Sediment Control Dams constructed between 1969 and 1977. Built under the Watershed Protection and Flood Prevention Act P.L. 566



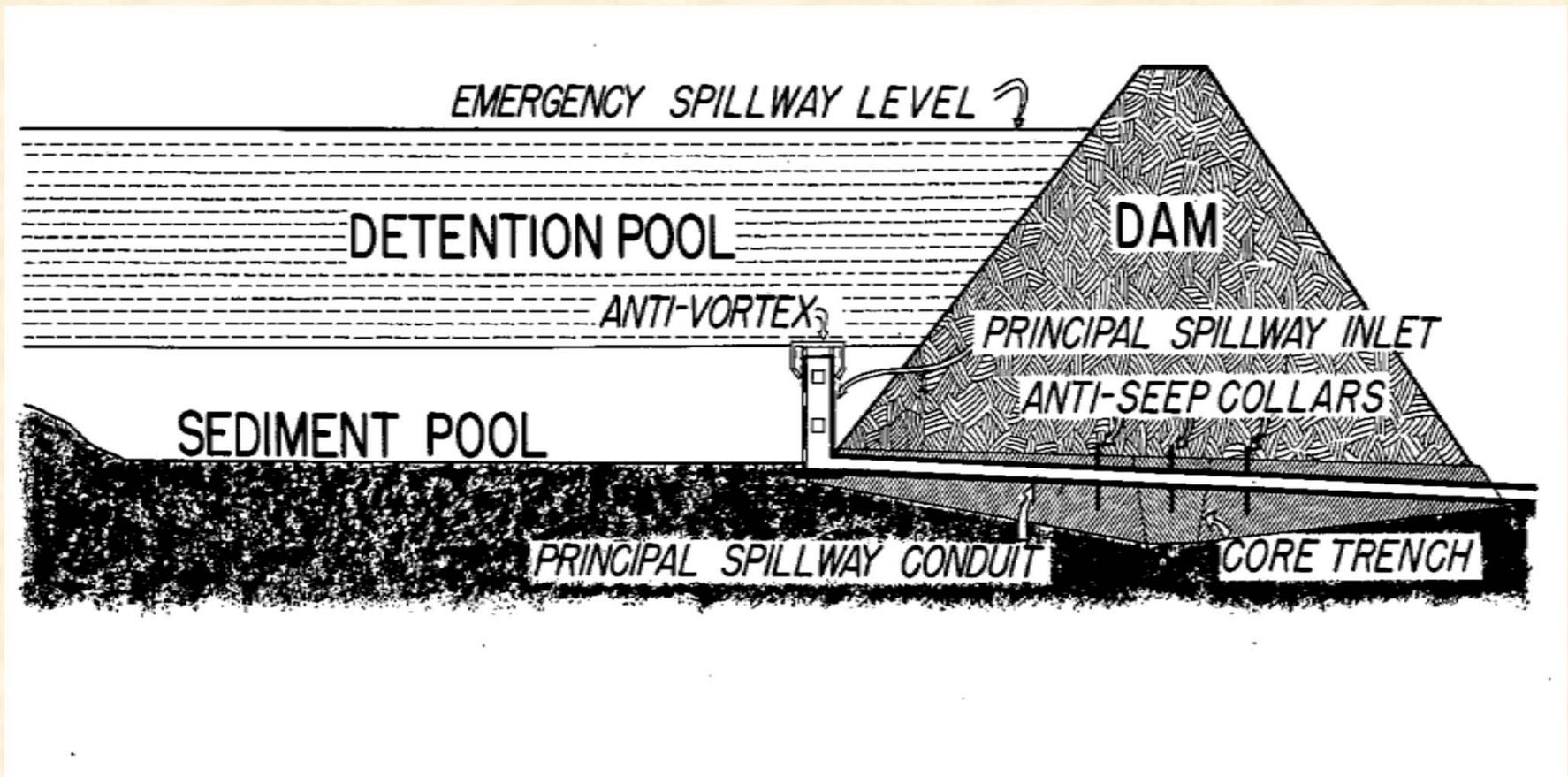
FIVE DAMS

- GREEN ARROYO
- BERRENDA CREEK
- JARALOSA CREEK
- CROW CANYON
- BROAD CANYON

GENERAL LOCATION



TYPICAL SEDIMENT CONTROL DAM



MAINTENANCE ACTIVITIES



- Road Grading
- Mowing
- Woody vegetation
- Monitor and Control Rodent Activity
- Erosion repairs
- Concrete repairs
- Fencing repairs

SAFETY OF DAMS INSPECTION



- Foundation Stability
 - Deformation along slopes
 - Depressions in dam or abutment
 - Bulging in abutments (slumping)
 - Lateral movements
 - Differential settlements
 - Cracking of dam
 - Transverse/longitudinal cracking
 - Cracks in concrete
 - Erosion
 - Animal burrows
 - Foundation seepage

GREEN ARROYO DAM



GREEN ARROYO DAM



GREEN ARROYO DAM



BERRENDA CREEK DAM



BERRENDA CREEK DAM



BERRENDA CREEK DAM



JARALOSA ARROYO DAM



JARALOSA ARROYO DAM



CROW CANYON DAM



CROW CANYON DAM



BROAD DAM



BROAD DAM



BROAD DAM





DAM QUESTIONS?

