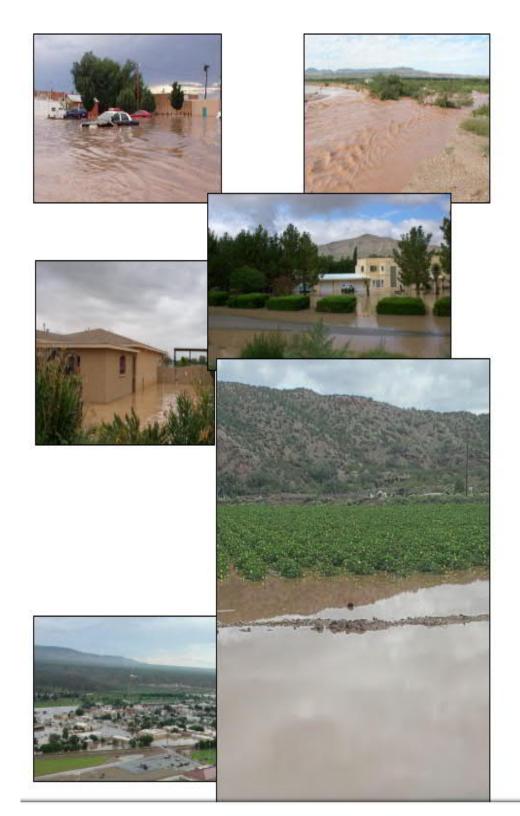


- Develop infrastructure and policy to cope with an increasingly arid climate
- With declining spring runoff from southern Colorado and northern New Mexico, we need to take advantage of alternate sources – storm water is again our focus
- Multiple objective approach:
  - Flood control
  - Direct use of storm water for irrigation
  - Aquifer recharge
  - Riparian/upland habitat
  - Water quality benefits
- Achieving the types of large projects necessary to ensure our infrastructure takes us another 100 years into the future requires working together

Flooding can be devastating — why not control and use the water instead?



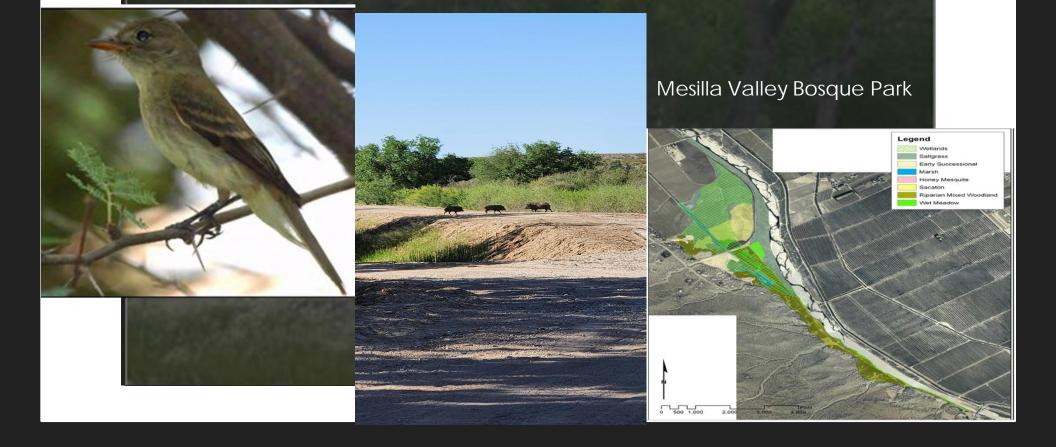
#### Flood Control Dam Assessment

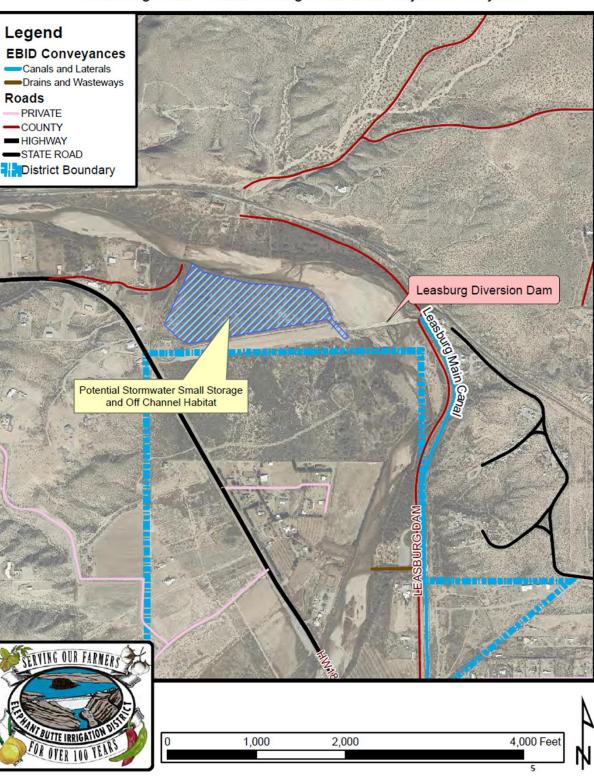


- EBID is sponsor for 27 flood control dams built in 1950s-1970s
- Originally built as low hazard dams, downstream development and changing standards renders them inadequate for high hazard service
- Goal is to capture water higher in watersheds and control it before it causes damage in the valley lands
- Start with assessment of potential for rehabilitation and repurposing to store and control storm water for aquifer recharge, direct use for irrigation and riparian/upland habitat
- The legislature must modernize funding for O&M

#### **Habitat Restoration**

Goal: To supply surface water to historic floodplain for purposes of growing a mosaic of native riparian habitat including open woodlands, dense riparian shrub, meadows and grasslands to protect existing, endangered, and threatened species.

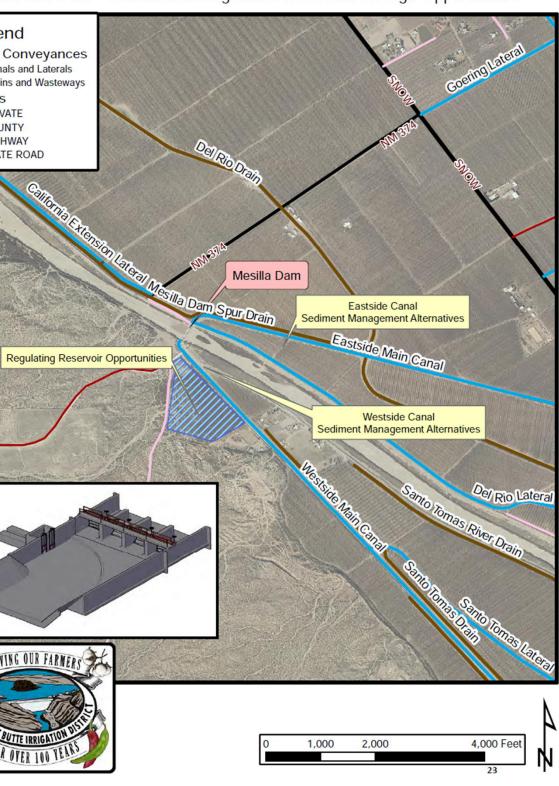




### Small Storage: Leasburg Pond

- 20-25 acres of withdrawn land held by US Government on west side of dam
- Gravity flow of storm water into pond
- Gravity flow into Rio Grande to make state line index delivery or diversion at Mesilla Dam
- Ideal riparian habitat
- Reduced flood peaks in river

Mesilla Dam - Sediment Management and Small Storage Opportunities

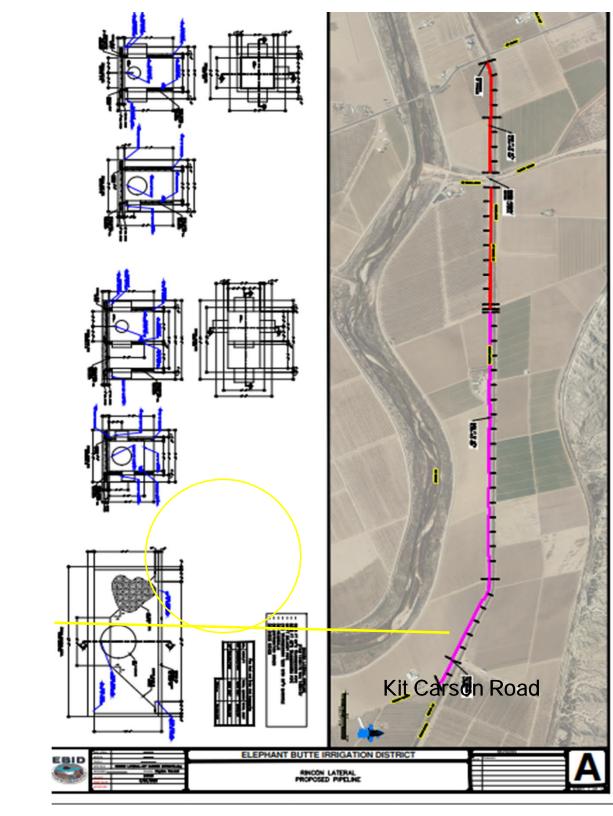


#### Small Storage: Mesilla Pond

- 20-25 acres of withdrawn land held by US Government on west side of dam
- Gravity flow of storm water into pond
- Gravity flow into Westside Canal for delivery to farmers
- Gravity flow into Rio Grande to make state line index delivery
- Reduced flood peaks in river

## Piping Canals/Laterals

- Improves system efficiency
- Improves public safety and access
- Reduces maintenance, thereby reducing labor costs, machinery cost, cost of fuel, etc.
- Rincon Lateral in Hatch – Est. Water Savings 16KAF



#### Canal/Arroyo to Drain Recharge



- Drains originally designed for water table control are now "high and dry" due to declining groundwater levels
- Storm water or other excess flow either from arroyos or diverted from river into canal system and dropped into drains to recharge aquifer
- Several dozen potential sites, thousands of acre-feet of storage in drain system
- Improved flood protection
- Reduced peak flood flows in river
- Riparian habitat
- Reduced E. coli in river



# An historic partnership

- EBID and MRGCD working together
- Learning from each other—metering, habitat, stormwater conveyance
- Low Flow Conveyance Channel vital to Southern NM

Rolling up our sleeves and getting down to business – in the field this summer to discuss LFCC



Opportunities for collaboration are abundant

