226,000 Square Miles
33,000,000 People
8 US Senators
44 US Representatives
4 Governors

420 Miles of CA Shoreline
14 Harbors
Ports of LA & Long Beach – 25% of US trade
LOS ANGELES DISTRICT PROGRAM

2018 Actuals: $648,406,321

- Civil Works: $206,643,188 (32%)
- Military: $317,200,000 (49%)
- International & Interagency Support (IIS): $124,563,133 (19%)

Current Year 2019 Projection: $814,000,000

- IIS: 21%
- Civil Works: 33%
- Military: 46%

Task Force Barrier *
2019 Program: $2,500,000,000

Total 2019 Program: $3,314,000,000

*2019 Federal Emergency Declaration
2010 Population: 22.73M
7% US Pop
- **Sponsors:** Orange County Flood Control District, Riverside County Flood Control & Water Conservation District & San Bernardino County Flood Control District
- **Purpose:** Flood Risk Management project to protect >3 million people and >250,000 structures totaling $15 billion

Map of Santa Ana River Watershed and Sub-Watersheds:
- Prado Dam (8)
- Reach 1-8 LSAR
- Reach 9 LSAR (8)
- Seven Oaks Dam
- Mill Creek
- San Timoteo Creek
- Oak Street Drain
- Santiago Creek
- Marsh
LOS ANGELES RIVER
LOS ANGELES COUNTY DRAINAGE AREA (O&M)

5 Dams, 1 Debris Basin
45 Miles of Levee and Channel
EMERGENCY MANAGEMENT

LA River Flood Fight, January-February 2016

Nogales Wash Flood Fight, August 2017

Santa Barbara County Debris Removal, January-April 2018
~2.5 million people live or work behind the levees in Los Angeles District

~$264 billion in property value

Storms are short duration (flashy), fast flow velocities in channels.

Some Major Risk Drivers include:

- Overtopping
- Performance: riprap condition, culverts, encroachments
  - Erosion is typically the performance mode of concern
- Evacuation Effectiveness: flood warning, community awareness, evacuation planning

**LSAC for SPL O&M Levees**

- LSAC 4: 11
- LSAC 3: 3
- LSAC 2: 3

**SPL O&M Levees**

- 17 levee segments
- 44 miles of levee

**SPL portfolio (NLD/LST as of May 2019)**

- 133 levee systems
- 160 levee segments
- 400+ miles of levee

**HQ LSO Approved LSAC**

(Total = 147 as of May 30th 2019)

- LSAC 2: 10
- LSAC 3: 35
- LSAC 4: 102

Not all screenings have been HQ LSO Approved yet.
WHITTIER NARROWS DAM

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