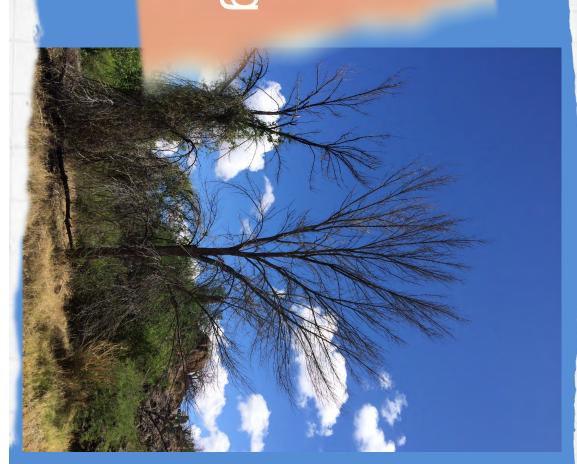
Southwest Drought and Human Health Workshop February 27, 2020

PIMA COUNTY drought and managing Preparing for



Pima County Drought Response Program

History

Local Impacts

Program Elements

Local Drought Impact Group

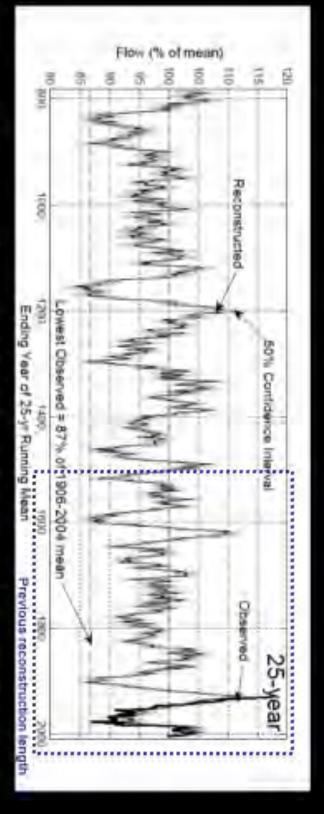
Connection with Community

2007: The Year of Drought Action



- Interim Guidelines for Colorado River
 Operations
- Drought in 7th Year
- ADWR Drought Preparedness Plan
- Pima County Drought Management Program
- Stage One Declaration

Reconstruction of Colorado River at Lees Ferry, AD 762 - 2005



25-yr running means of reconstructed and observed annual flow of the Colorado River at Lees Ferry, expressed as percentage of the 1906-2004 observed mean (Meko et

2007). Drought History of the Southwest Reconstructed from Title Rings, Connie Monthouse, School of Geography and Development and Lateratory of Title-Ring Research, University of Arizona, gressented to Pfine County LDIG, January 12, 2011

About Pima County

Population 1 million

Unincorporated pop 360,000

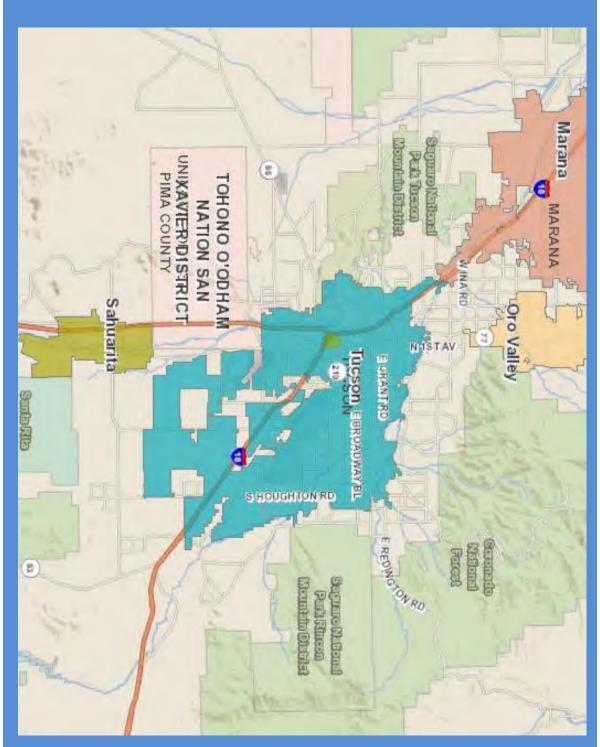
11.59" Annual Rainfall

70.3°F Ave Yearly Temp

Range 32°F to 110°F



Pima County Jurisdictions



Drought and Climate Impacts

	•Wildfires	•Wildlife	•Riparian Habitat	•Streamflow	Environment
	oports	• Recreation, Tourism &	• Ranching	• Agriculture	Economic
•Energy	•Peak Demand	Service	•Water	•Groundwater	Water Supply
•Quality of Life	•Air Quality	•Health	•Vulnerable Populations	•Vectors	Human

Effects of Hot



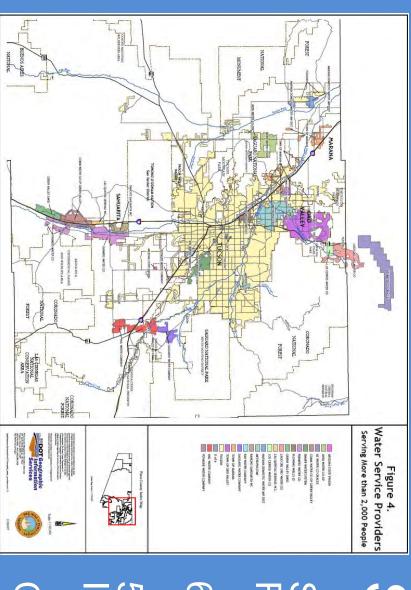
Evapotranspiration



Evaporation



Sublimation



Municipal Water Supply

Sources: Groundwater, CAP Reclaimed

6 Major Water Providers

5 Domestic Water Improvement Districts

Co-ops, private water companies, private wells

Drivers for Pima County Drought Management

Ongoing Drought

Framework for Response

Response in Unincorporated Pima
County

Platform for Collaboration

Drought Response Plan

- Pima County Code 8.70
- Four Drought Stages
- Declared by Board of Supervisors
- **Establishes Monitoring Group (LDIG)**
- Water Wasting Prohibitions
- > Updated in 2014

Local Drought Impact Group

- Meets Bi-Monthly
- Review Drought Status
- Drought Impacts
- Coordinate DroughtDeclarations and Responses
- Posted Public Meetings
- Water Providers, NWS, USGS ADWR, Interested Parties



Drought Stages

Stage 1 Alert

Stage 2 Warning

Stage 3 Emergency

Stage 4 Crisis

- Moderate to Severe
- Severe to Extreme
- Extreme to Exceptional
- Exceptional

Drought Responses

Stage 1

VoluntaryConservation

Stage 2

- Stage 1+
- Irrigation
 Restrictions
- Water Only on Request
- No Misters
- No Public Fountains
- Car Washing with Nozzle Only
- No Turf
 Overseeding

Stage 3

- Stage 2+
- No Filling New Residential Pools
- Car Washing only with Recirculation
- No Pool Refilling except to Top Off

Stage 4

- Stage 3+
- Only Tree and Shrub Irrigation
- No Filling New Pools
- No Car Washing
- No Street Cleaning
- No Potable Water for Construction

Water Wasting Provisions

Allowing Water to Leave a Property

Failing to Repair Water Leaks

Washing Driveways, Sidewalks, Parking Areas with Open Hose or Spray Nozzle (Residential Exempt)

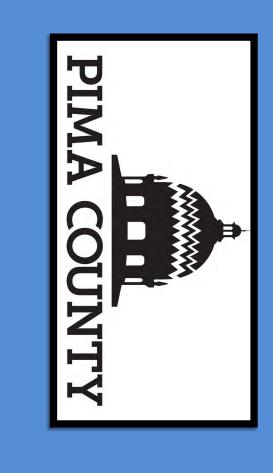
Connection with Community

- >Local Drought Impact Group
- ➤ Posted as Public Meetings
- ➤ Materials On Line
- ➤ Notices to over 50
- ➤ Search: Drought Management Pima County

Challenges and Opportunities

- > Participation
- Sector Impacts
- > Drought Fatigue
- Climate Change versus Drought

- > NWS, ADWR, CAP
- Annual Report
- Water Conservation Message
- Collaboration



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