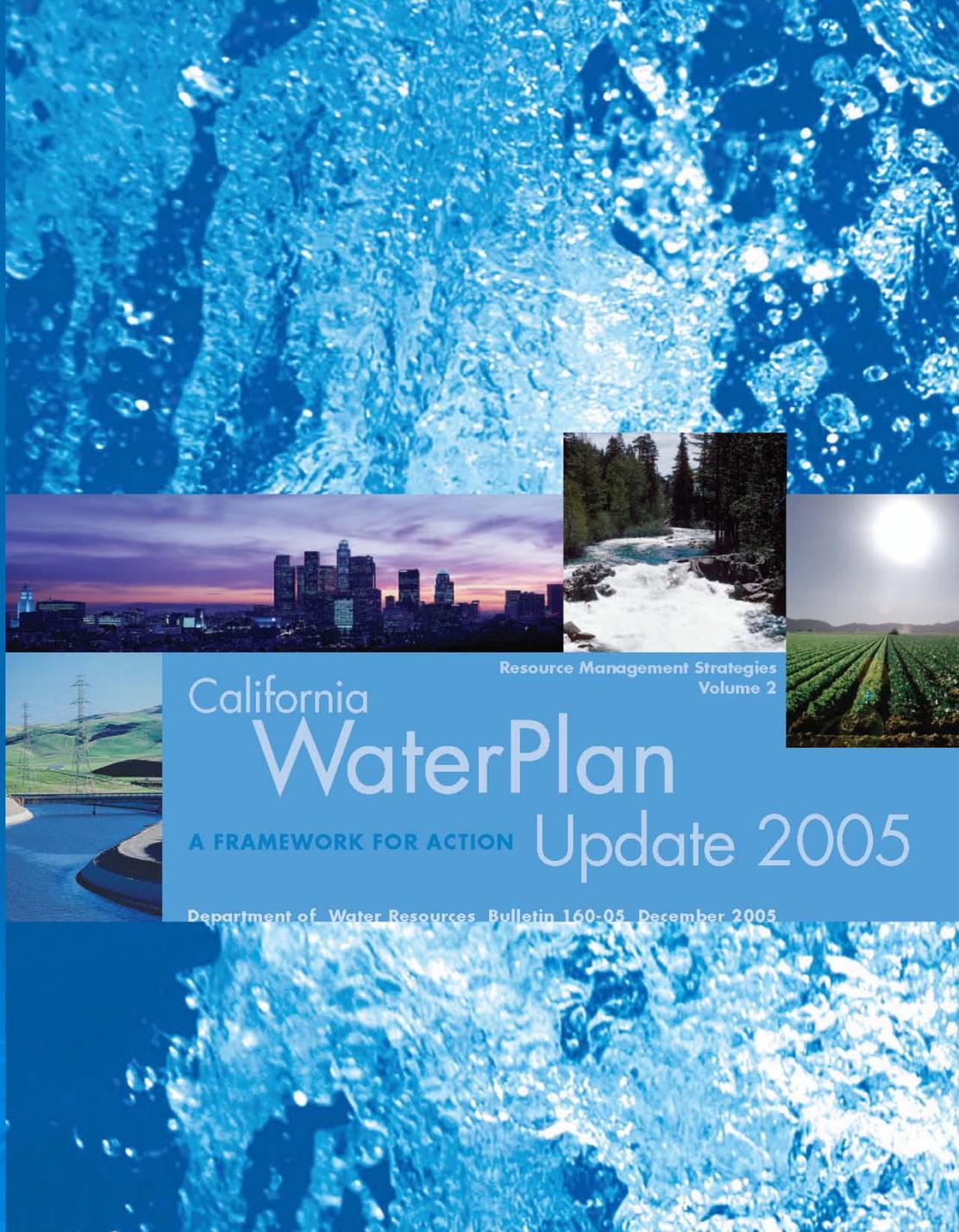


California Water Plan Update 2009

North Lahontan Regional Report Initial Draft Overview

2008 Regional Workshops

John Headlee, DWR
Central District



California

WaterPlan

A FRAMEWORK FOR ACTION

Update 2005

Department of Water Resources Bulletin 160-05 December 2005

Resource Management Strategies
Volume 2

Regional Reports Table of Contents

- **Setting** – background factors
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North Lahontan Hydrologic Region

Sacramento River Region Pit River

Flow in TAF

| 1998 | 2000 | 2001 |
|------|------|------|
| 3 | 3 | 3 |

Sacramento River Region Little Truckee

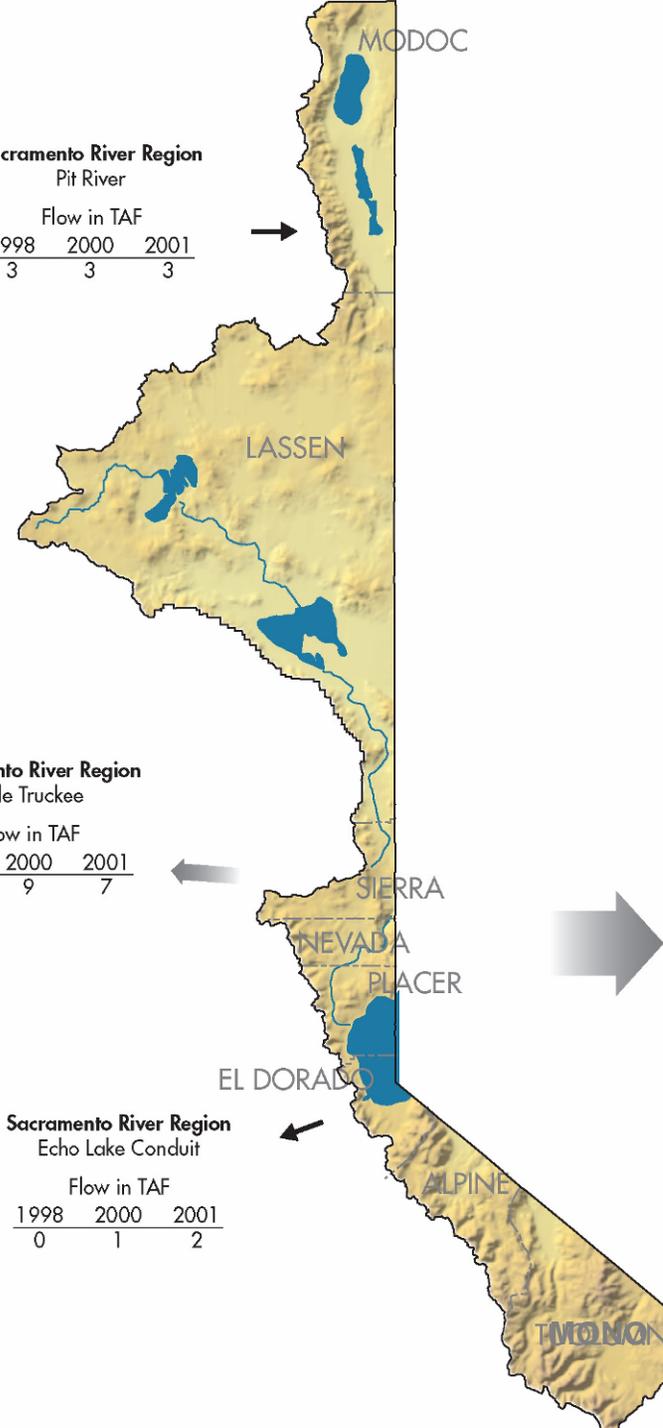
Flow in TAF

| 1998 | 2000 | 2001 |
|------|------|------|
| 10 | 9 | 7 |

Sacramento River Region Echo Lake Conduit

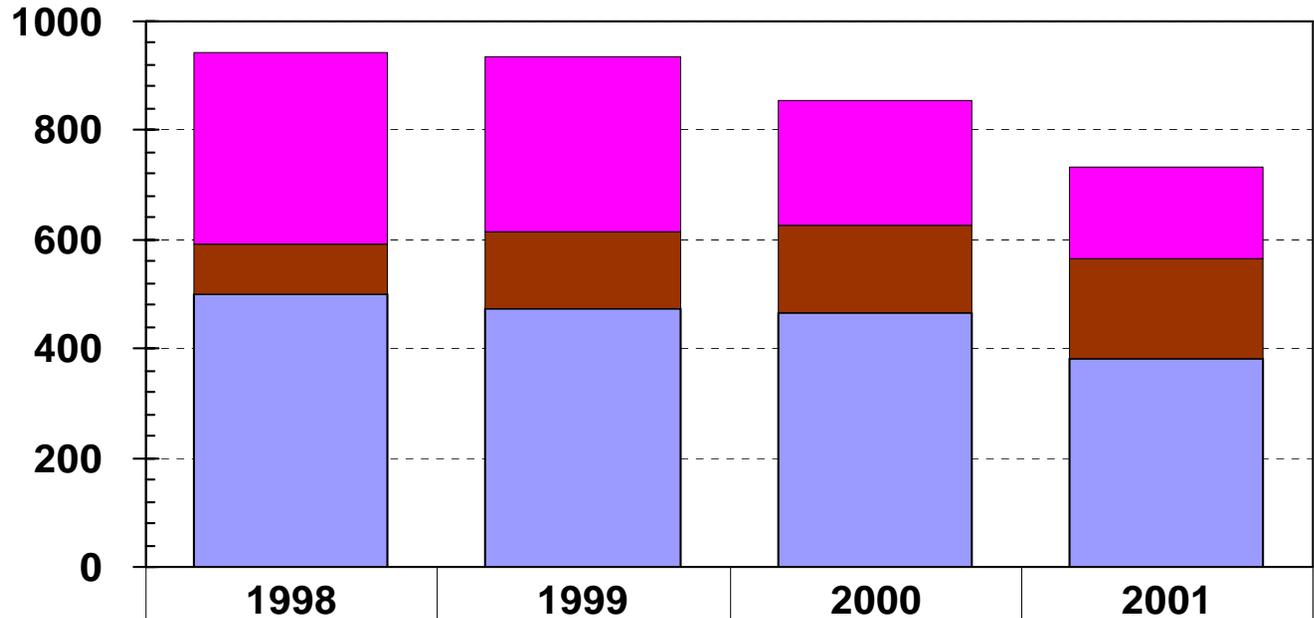
Flow in TAF

| 1998 | 2000 | 2001 |
|------|------|------|
| 0 | 1 | 2 |



North Lahontan Region Water Supply

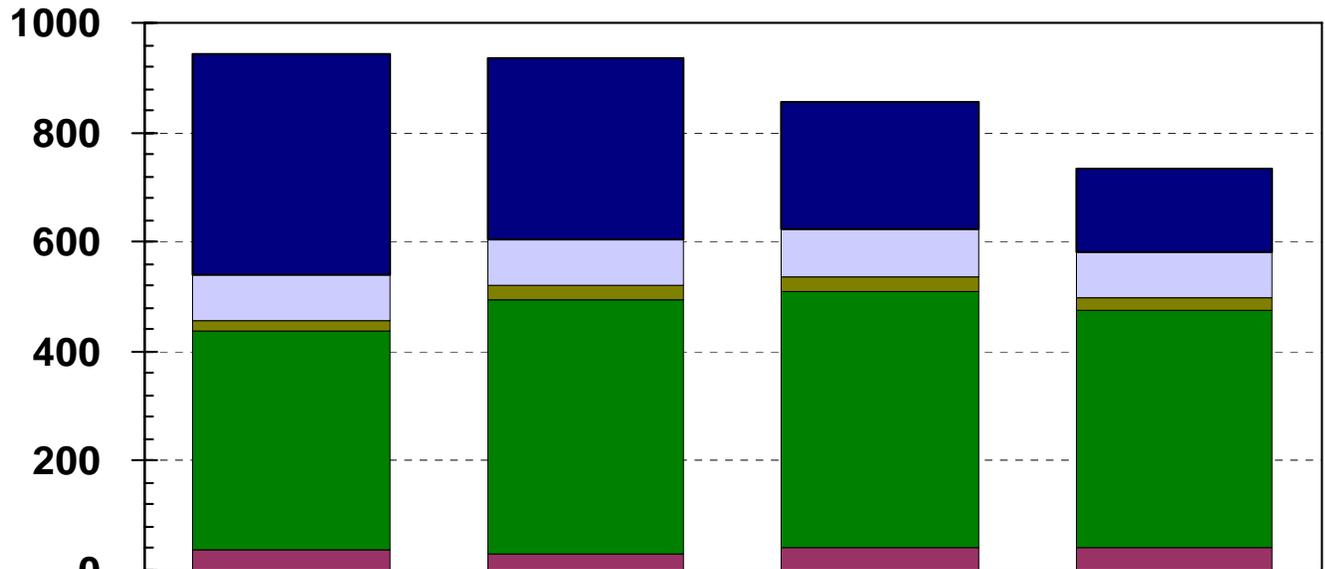
Water Supply in 1000 acre-feet/water year



| | 1998 | 1999 | 2000 | 2001 |
|--------------------------|------|------|------|------|
| ■ Dedicated Environment | | | | |
| ■ Reuse & Recycled | 354 | 320 | 229 | 167 |
| ■ Groundwater | 89 | 141 | 162 | 184 |
| ■ State Water Project | 0 | 0 | 0 | 0 |
| ■ Federal Water Projects | 0 | 0 | 0 | 0 |
| ■ Colorado River Project | 0 | 0 | 0 | 0 |
| ■ Local Water Projects | 501 | 475 | 465 | 382 |

North Lahontan Region Water Use

Water Use in 1000 acre-feet/water year



| | 1998 | 1999 | 2000 | 2001 |
|--------------------------|------|------|------|------|
| ■ Wild & Scenic Rivers | 404 | 330 | 233 | 153 |
| ■ In-stream Flows | 85 | 85 | 85 | 85 |
| ■ Required Delta Outflow | 0 | 0 | 0 | 0 |
| ■ Managed Wetlands | 19 | 25 | 26 | 21 |
| ■ Irrigated Agriculture | 398 | 466 | 471 | 435 |
| ■ Urban | 38 | 30 | 40 | 41 |

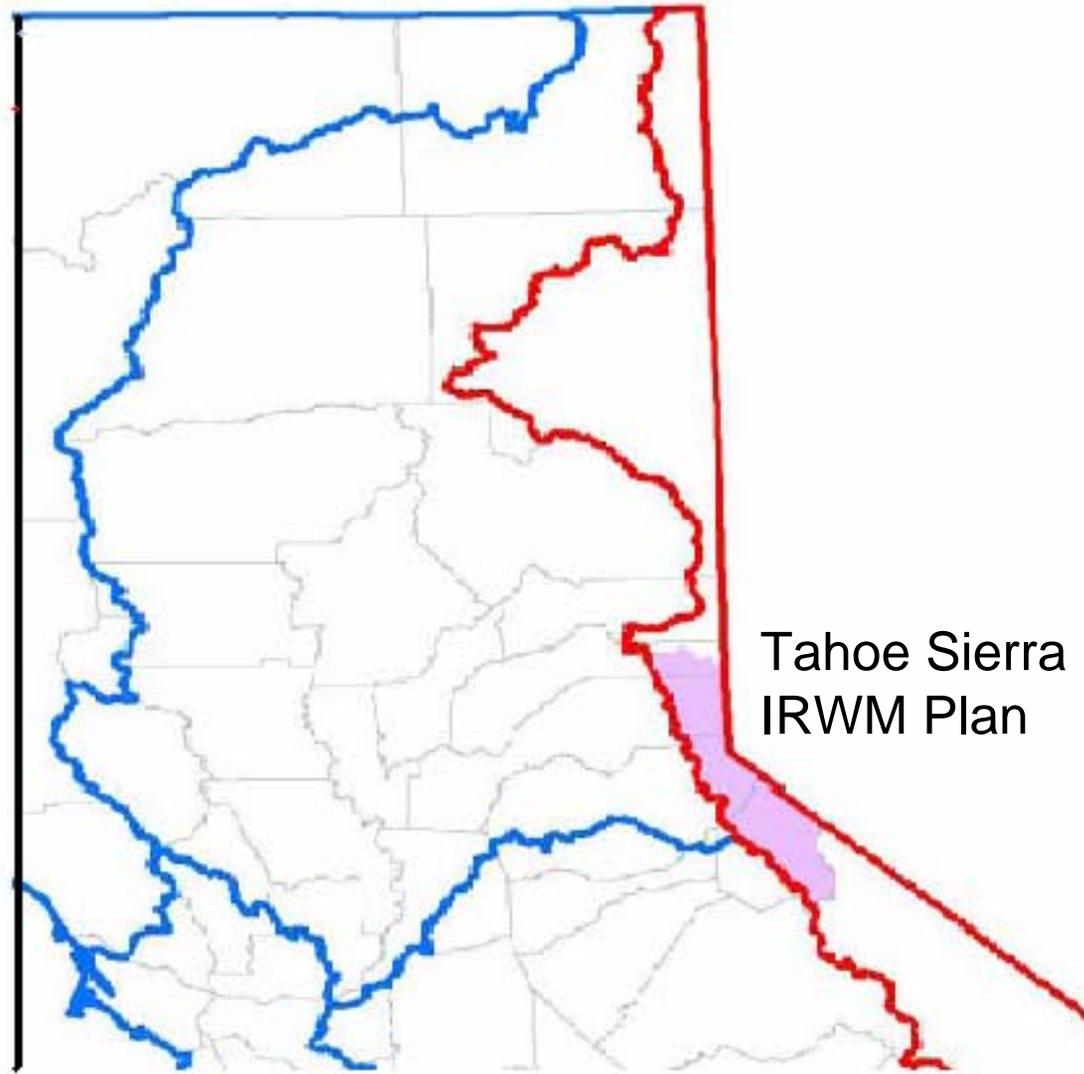
Information Needs (Placeholders)

- Geology, soils, faults, GW basins
- Water usage rates
- Confirmation of demographic trends
- Tribal communities and federal tribal trust lands
- Changes to Forest Management Plans
- Conservation, recycling and reliability of supply
- Water Governance and ongoing planning organizations
- Flood Management, hazards, history, institutions, emergency measures, damage reduction measures and operations

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North Lahontan Region IRWM Plans



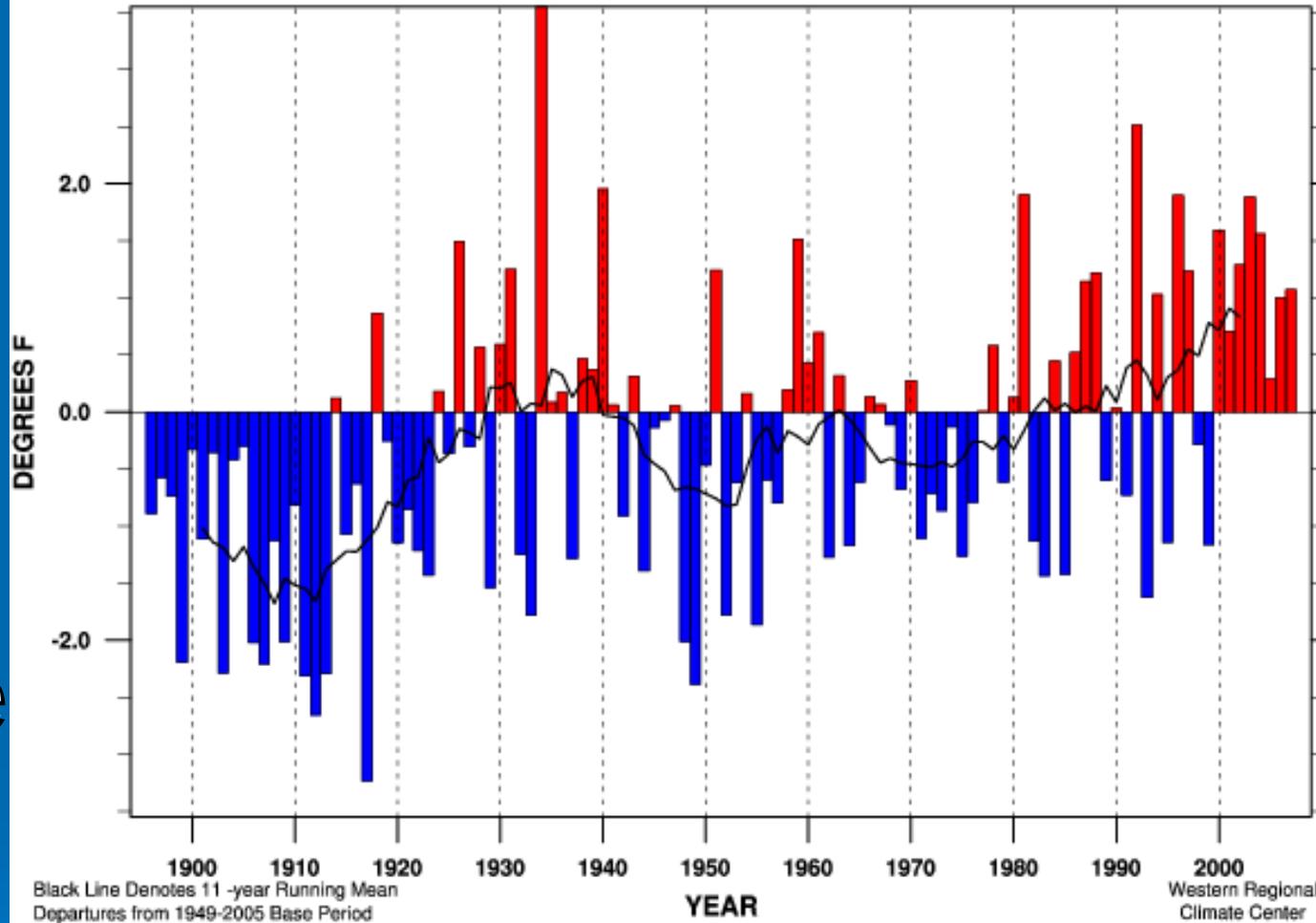
What's in the news

- TROA EIS issued
- Transfers, same, Fish Springs Ranch
- Water Quality, Sediment TMDL, Lake Tahoe clarity
- Flood Control, [place marker for additional information]
- Invasive species NZMS, Quagga & Zebra mussels, wolverine
- Leviathan Mine, impacts limited
- Drought watch, conservation, recycled water
- Restoration Conservation:
 - Billy Mack Canyon
 - Truckee Canyon
 - Waddle Ranch in Martis Valley
 - Lassen Land & Trails Trust
 - Carson River Sub-conconservancy
- Climate change, high spring flows, lake circulation effects
- Committees, Sierra Nevada Conservancy, Statewide Watershed Program, NGO's



Northeast California Annual Mean Temperature Trend (WRCC)

Northeast Region
Mean Temperature Departure Oct-Sep



Linear Trend 1895-present + 1.54 ± 0.64 °F/100yr

Linear Trend 1949-present + 2.40 ± 1.58 °F/100yr

Linear Trend 1975-present + 4.43 ± 4.27 °F/100yr

Warmest Year 50.1°F (+ 3.5 °F) in 1934

Coldest Year 43.3°F (- 3.2 °F) in 1917

Oct-Sep 2007 47.6°F (+ 1.1°F)

MEAN 46.5 °F

STDEV 1.08 °F

RANK 96 of 112

Information Needs (Placeholders)

- IRWMP status, objectives and strategies including flood
- Accomplishments, updates, water conservation
- Challenges
- Drought Planning
- Climate change