

# **Drought Report**

Board of Directors Meeting

August 9, 2016

# Drought Report



- 2014-2016 actions
- Document knowledge and experience
- Capture Lessons Learned
- Reference document for future drought planning

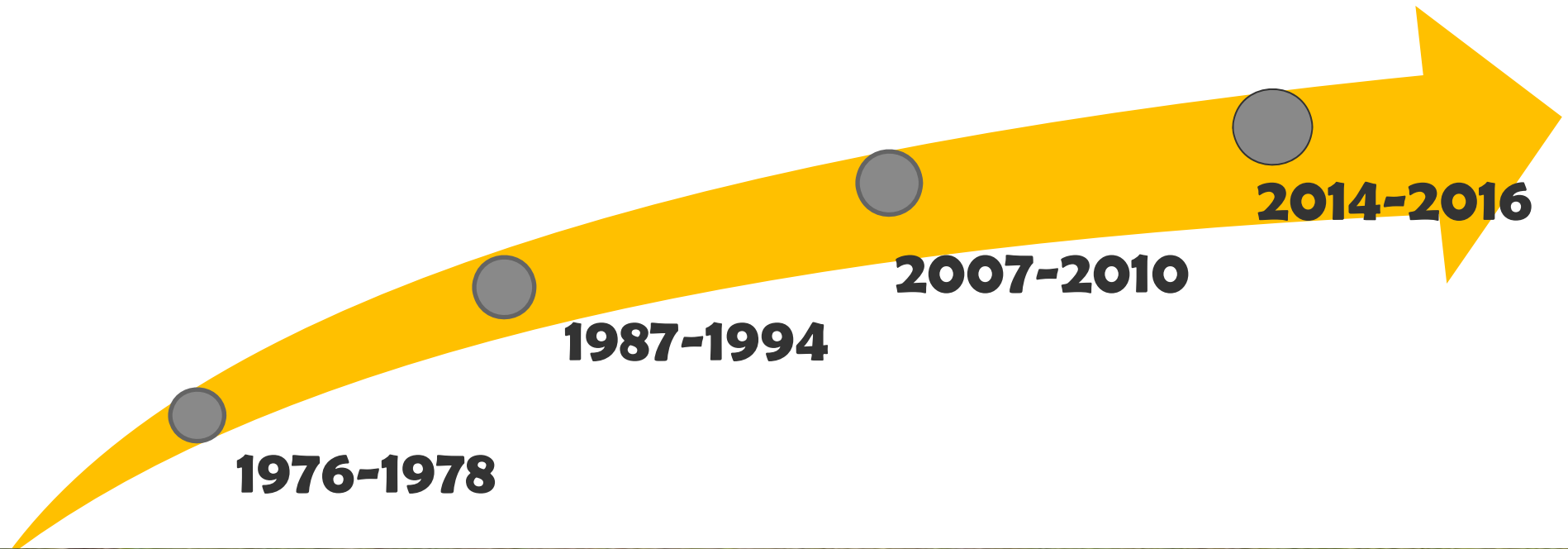


## Drought Report

2014-2016



# Historical Drought Periods - EBMUD



# Summary of Challenges from 2014-2016 Drought



- 1) SWRCB curtailments of water from Mokelumne
- 2) Unprecedented reductions in water allocations from the CVP
- 3) First time use of Freeport facilities
- 4) Operational issues from the new water source
- 5) Responding to Statewide mandatory conservation/restrictions; Excessive Water Use, Water Theft, and associated penalties
- 6) New staged system of drought rates/surcharges





# Main Operational Areas



- 1) Water Supply Acquisition/Curtailments
- 2) Water Operations/Water Quality
- 3) Water Use Restrictions/Ordinances
- 4) Communication and Outreach
- 5) Financial Considerations/Budget

# Water Supply Acquisition/ Water Curtailments



- Plan for curtailments and reduced allocations
- Early and ongoing coordination and communication with USBR
- Evaluate strategies to maximize CVP water delivery
- Continued pursuit of and implementation of long term water transfer arrangements
- Work with USBR on Municipal and Industrial Water Shortage Policy Guidelines and Procedures.



# Water Operations/Water Quality



- Take dry year supplies early
- Manage terminal reservoir storage
- Ensure identified improvements are in place:
  - Complete the Orinda WTP improvements
  - Complete the Freeport Pump repairs
- Monitor water quality

# Water Use Restrictions Ordinances Considerations



- Re-evaluate Excessive Use Ordinance
  - Criteria
  - Public Records Request
  - Extend the appeals timeline
- Expand tools available for customers
- Ongoing engagement with the State
- Develop a long term strategy for District facilities
- Define a more comprehensive supersaver program
- Develop applications/systems for data management, tracking and reporting





# Communication and Outreach



- State drought declaration requires extra engagement
- Provide timely media education, outreach and information
- Build a framework for customer communication to support community efforts
- Build a depth and breadth in resources and mechanisms to support drought outreach
- Frequent, consistent and easy to understand messaging for external and internal stakeholders
- Prepare for exiting the drought



# Financial Considerations/Budget



As part of regular financial planning:

- Plan for drought budget including staffing needs
- Plan for drought rates
- Include monthly projections of water use, lost revenue, and surcharge revenue.
- Ensure adequacy of Rate Stabilization Funds
- Obtain clear direction from Board re: timing of drought stages/surcharges, implementation and termination
- Monitor drought budget/costs

# Conclusion



## Successful drought management

- Reliable water supply
- Environmental stewardship
- Engaged stakeholders, community, customers
- Exceeded state/District use reduction goals
- Responsive service
- Fiscal responsibility

### EBMUD customers reduced water use by 24%

#### How did we do it?

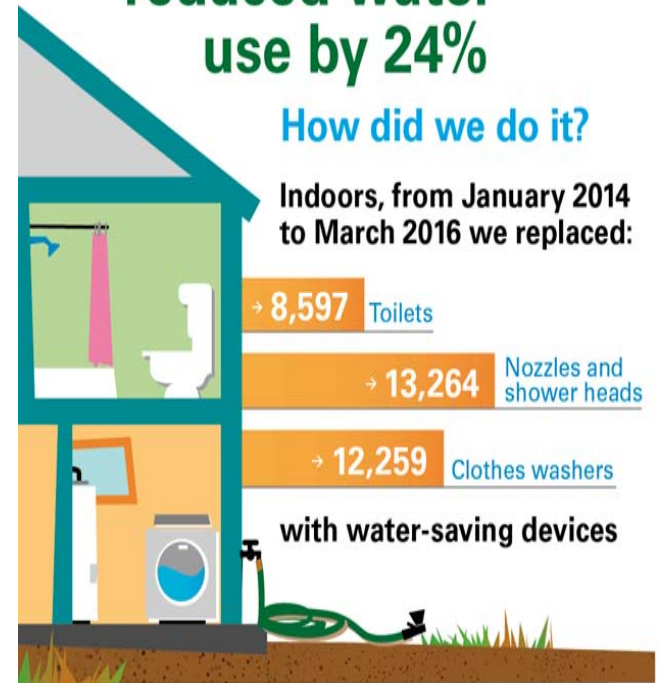
Indoors, from January 2014 to March 2016 we replaced:

→ 8,597 Toilets

→ 13,264 Nozzles and shower heads

→ 12,259 Clothes washers

with water-saving devices



# Next Steps



- Continue planning for long term conservation and water supply
- Use water wisely





# Community and Team Effort



- Thank our community and stakeholders
- Board of Directors
- Staff

