

Water Treatment Update

Bureau of Reclamation - BGNDRF

Water Treatment Innovation Networking Workshop

Dr. Katie Guerra

September 19, 2018

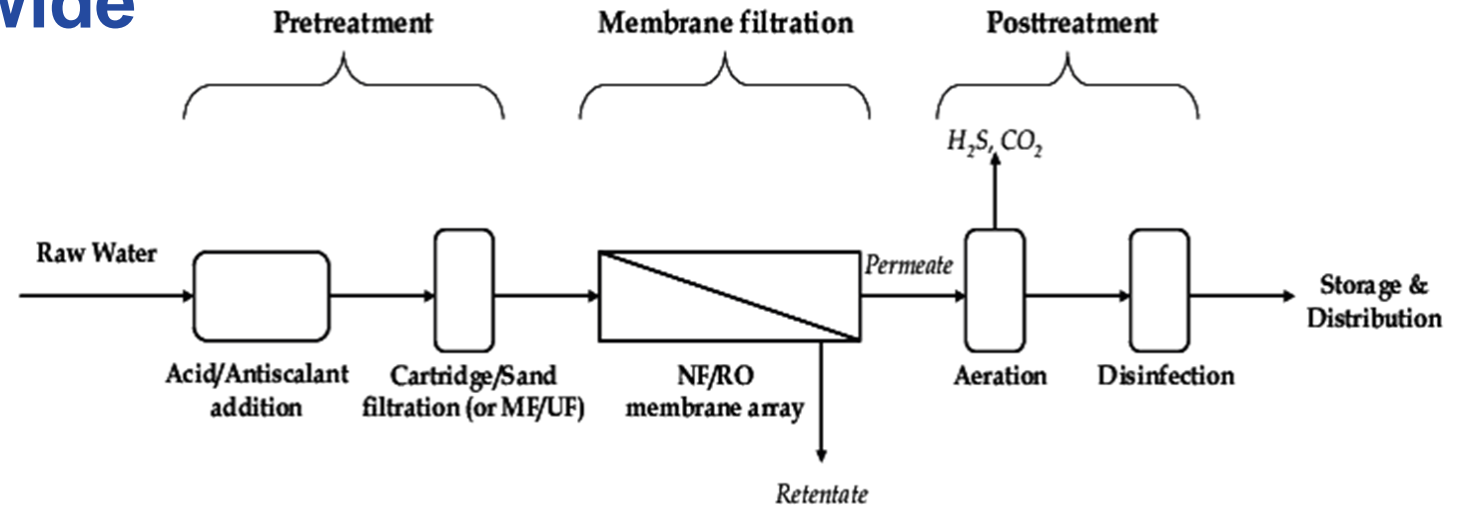
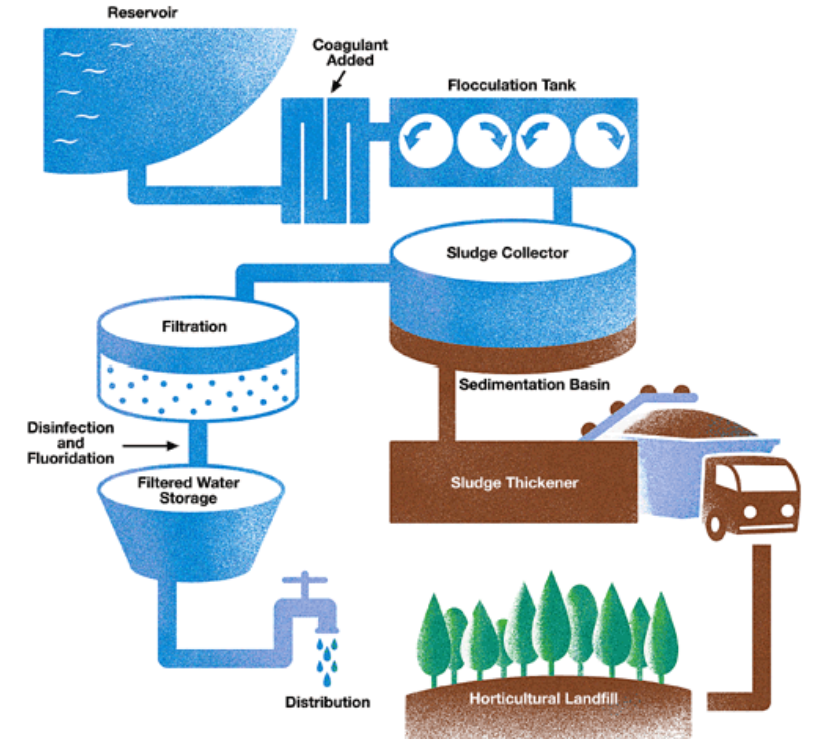
Bureau of Reclamation

- Manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public
- Operate 338 reservoirs (140 million acre-ft)
- Provides 1 out of 5 Western farmers with irrigation water
- Second largest producer of hydropower
- Delivers 10 trillion gallons of water to more than 31 million people each year

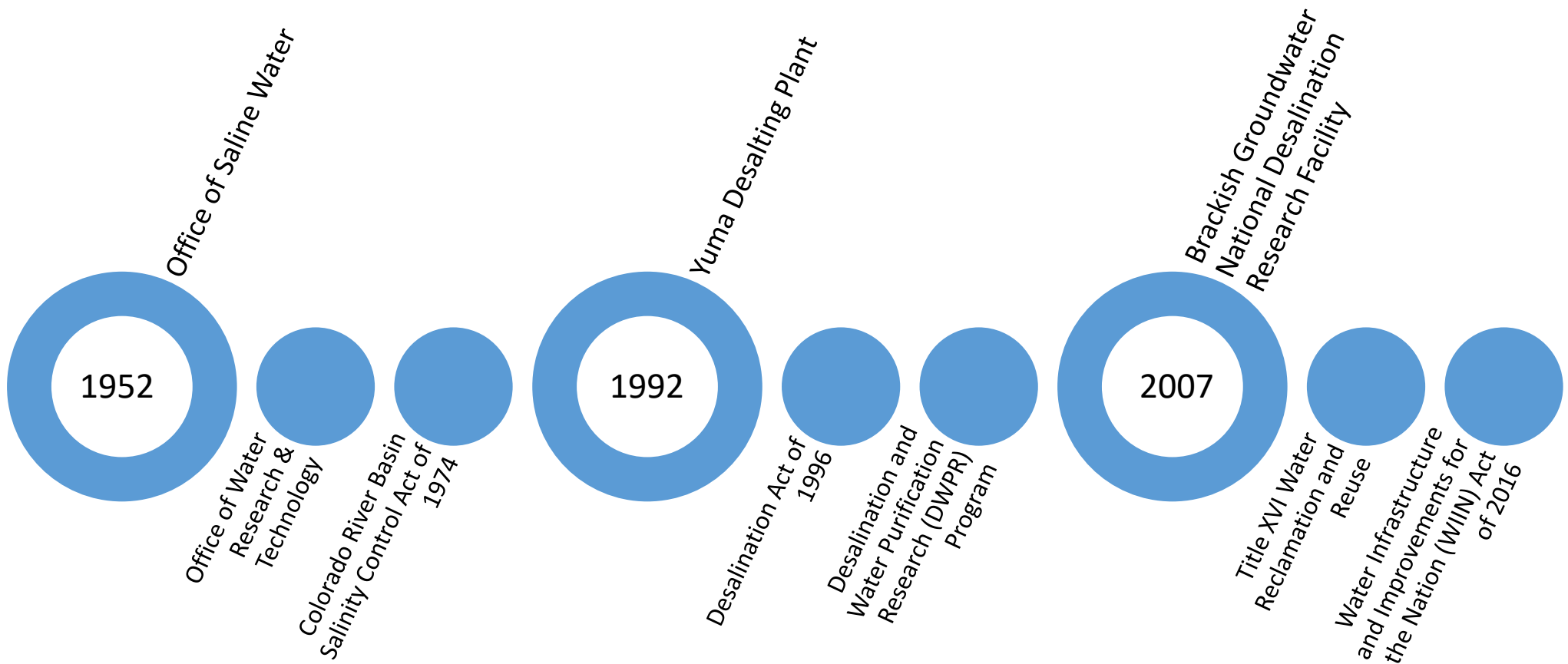


What...

- Water treatment is a broad field
- While the need for water for irrigated agriculture is greatest west of the 100th meridian, the need for high quality water for drinking and for industry is nationwide

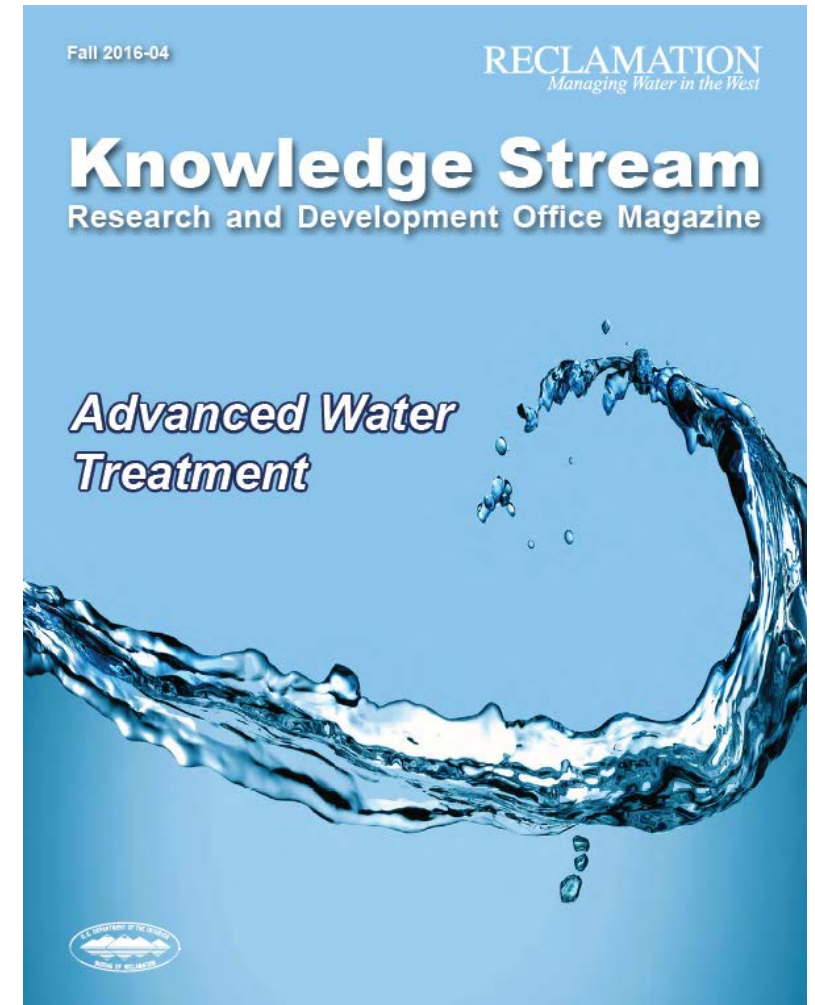


Since when....



Programs

- **Science & Technology**
 - Internal to Reclamation
 - Funds mostly applied research
 - Yearly call for proposals
 - Partnerships are key
 - Share of information
 - *Knowledge Stream Magazine*
 - *Final reports on website*



<https://www.usbr.gov/research/docs/ks/ks-2016-04.pdf>

Programs

- **Water Prize Competition Center**
 - Desalination Prize – partnership with USAID in 2015
 - More Water, Less Concentrate, Stage 1 – 2017
 - Arsenic Sensor, Stage 1 – 2017
 - Pathogen Monitoring, Stage 1 – 2018
- **Additional prizes being worked on for 2019 launch**
 - Concentrate

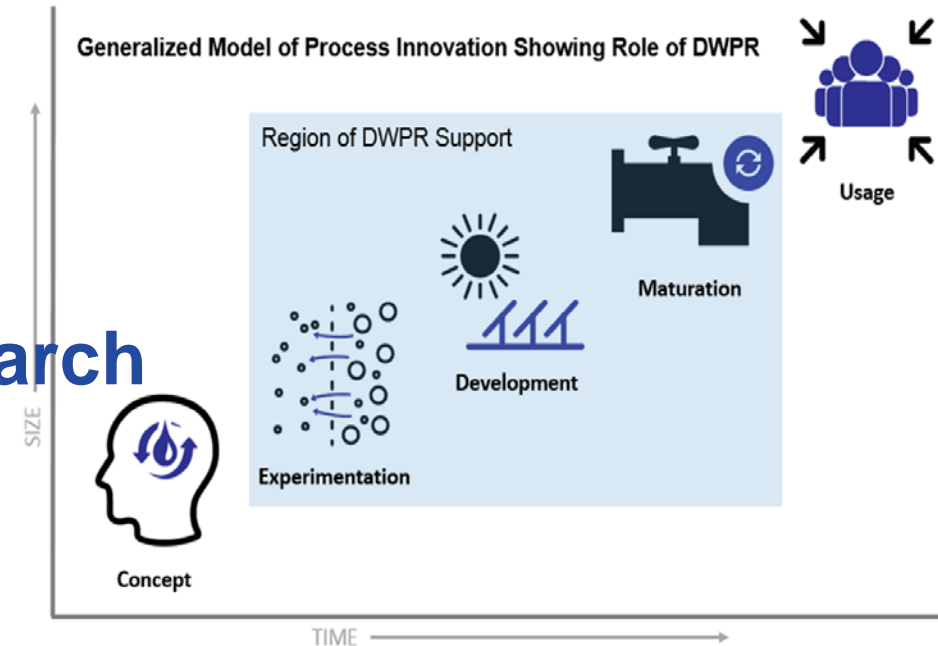


Programs

- **Desalination and Water Purification Research (DWPR) Program**

- **Eligible Applicants**

- **Nationwide**
 - **Individuals, institutions of higher education, profit organizations, state and local governmental entities, non-profit organizations, federally-funded research and development centers, US-Mexico binational research foundations and interuniversity research programs, and Indian tribal governments and organizations**
 - **Develop innovative, cost-effective, and technologically efficient ways to desalinate and purify water**



Desalination and Water Purification Research

- Fiscal Year 2019 Funding Opportunity Announcement is now OPEN!
- BOR-DO-19-F001
- www.grants.gov



Brackish Groundwater National Desalination Research Facility



Programs website links

Reclamation Program	Website	Contact
Desalination and Water Purification Research (DWPR)	www.usbr.gov/research/dwpr	Yuliana Porras-Mendoza, yporrasmendoza@usbr.gov
Title XVI Water Reclamation and Reuse	www.usbr.gov/watersmart/title	Amanda Erath, aerath@usbr.gov
WaterSMART Desalination Construction Projects	www.usbr.gov/watersmart/desalination	Amanda Erath, aerath@usbr.gov
Water Prize Competition Center	www.usbr.gov/research/challenges	Andrew Tiffenbach, atiffenbach@usbr.gov
Science & Technology Program	www.usbr.gov/research/st	Yuliana Porras-Mendoza, yporrasmendoza@usbr.gov
Brackish Groundwater National Desalination Research Facility (BGNDRF)	www.usbr.gov/research/bgndrf	Randy Shaw, rshaw@usbr.gov

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RECLAMATION
Managing Water in the West