

# Results from the 2019 Volumetric Annual Report of Wastewater and Recycled Water in California

Agenda Item 4



Division of Water Quality, January 5, 2021



Rebecca Greenwood



Laura McLellan



Shahla Farahnak



Claire Waggoner




Tim Regan





# Recycled Water Policy Goals

**WATER QUALITY CONTROL POLICY FOR RECYCLED WATER**



Adopted December 11, 2018  
Effective April 8, 2019

**STATE WATER RESOURCES CONTROL BOARD**  
CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

**INCREASE**  
the volume of recycled water used to at least 2.5 million acre-feet a year in the next decade

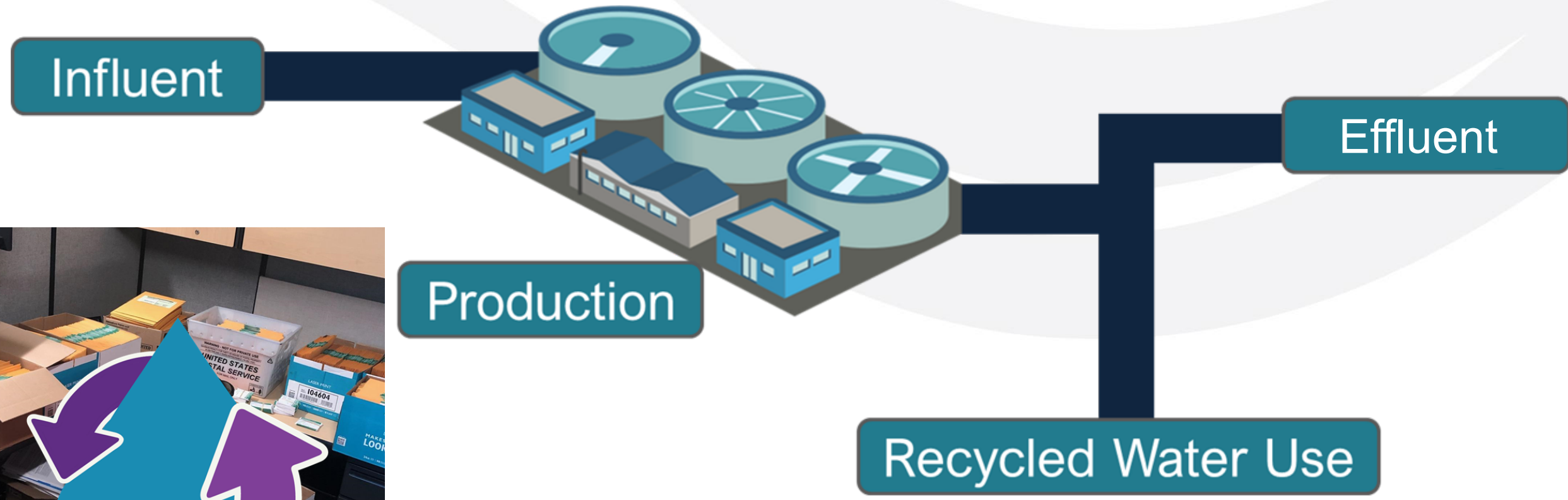


**REUSE**  
all dry weather discharge to enclosed bays, estuaries, coastal lagoons, and ocean waters, as feasible



**MAXIMIZE**  
reuse where groundwater supplies are in a state of overdraft

# Monitoring and Reporting Requirements



**756 wastewater treatment plants and recycled water producers**

# Volumetric Reporting

## ORDERS

2019-0037-EXEC  
Order Issued  
July 29, 2019



## ANNUAL REPORT

Original Due Date for  
Reports  
April 30, 2020



## DATA ANALYSIS

Board Information Item/  
Data Publicly Available  
January 5, 2021



## MODULE

Reporting Module  
Released  
March 2, 2020

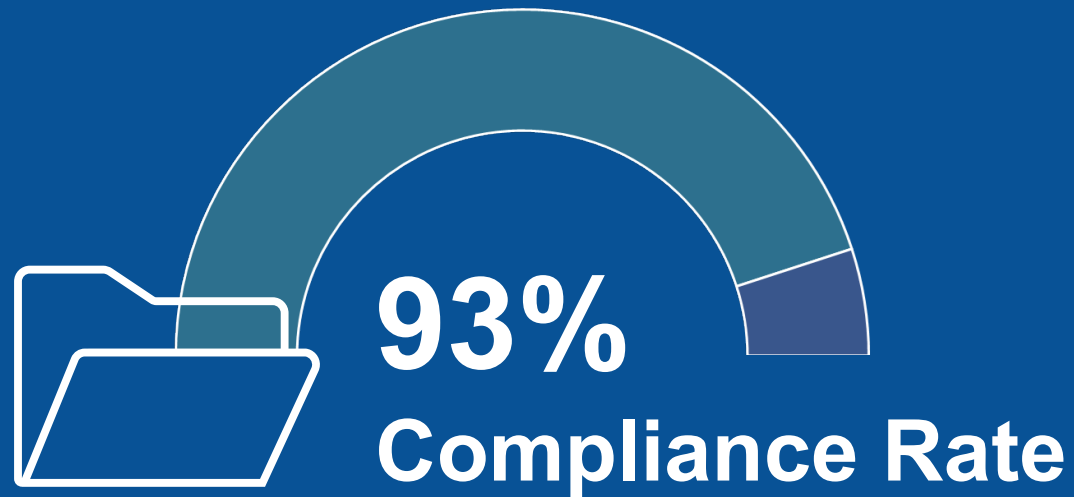


## EXTENDED

Deadline Extension:  
Reports Due  
June 30, 2020

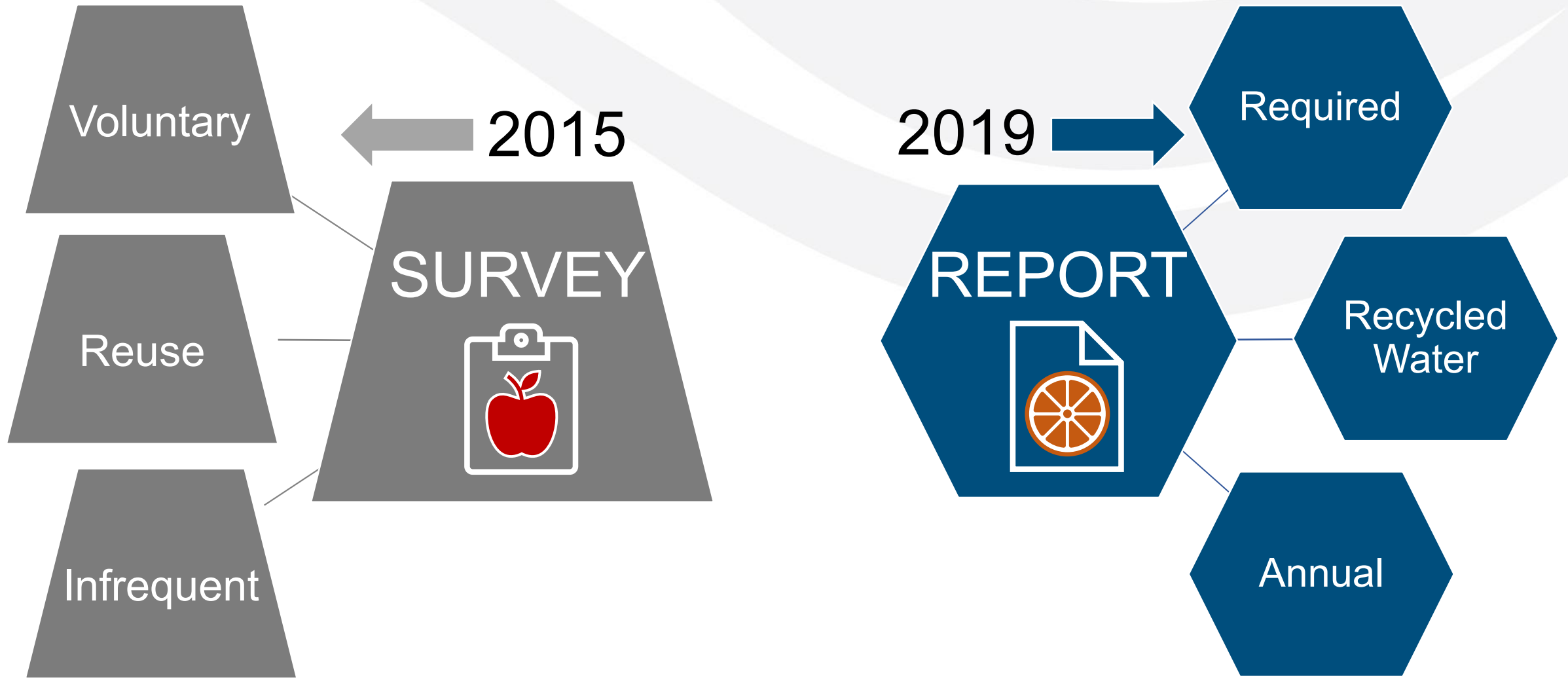






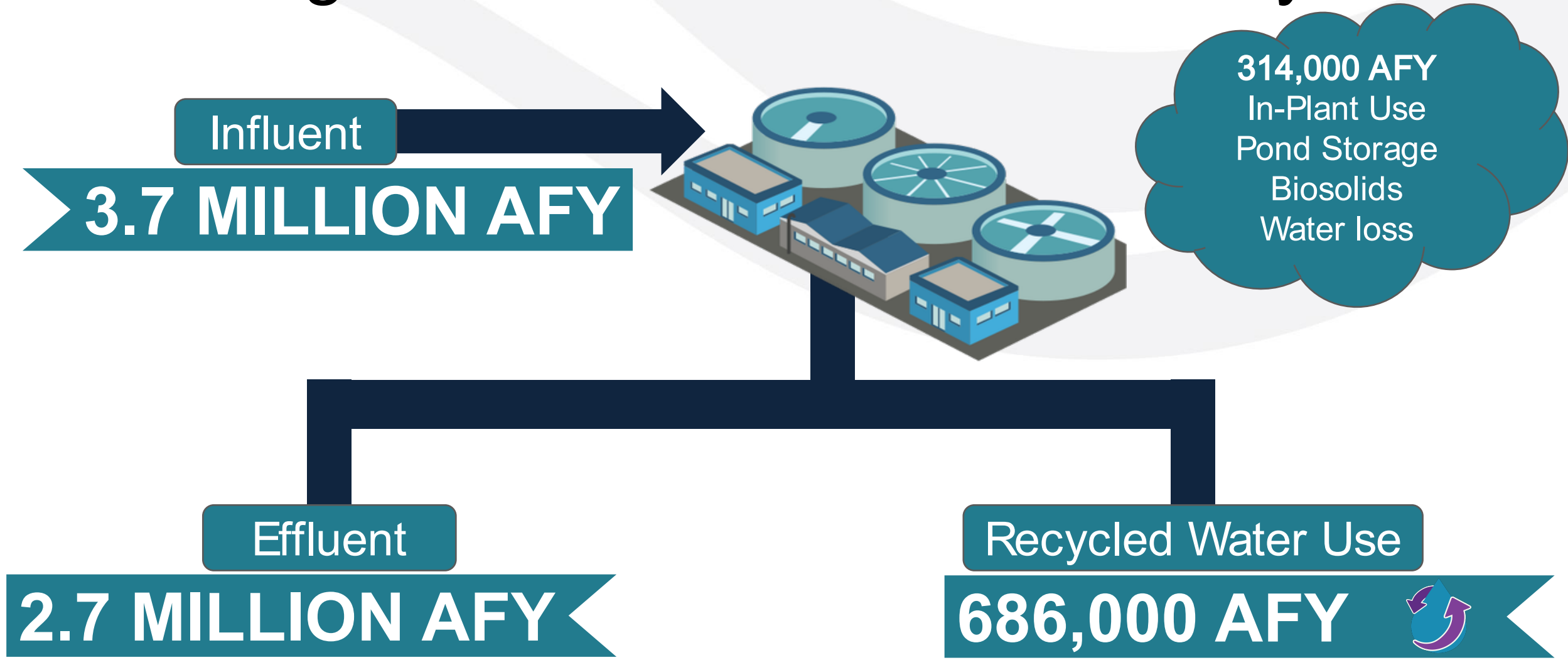
As of December 21, 2020,  
710 out of 756 facilities have submitted  
Volumetric Annual Reports

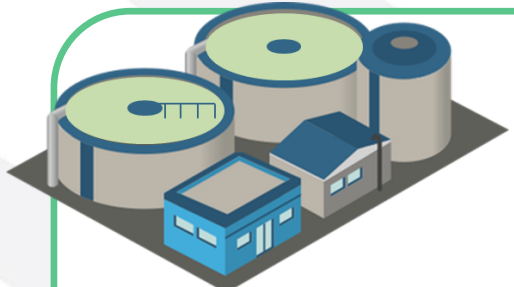
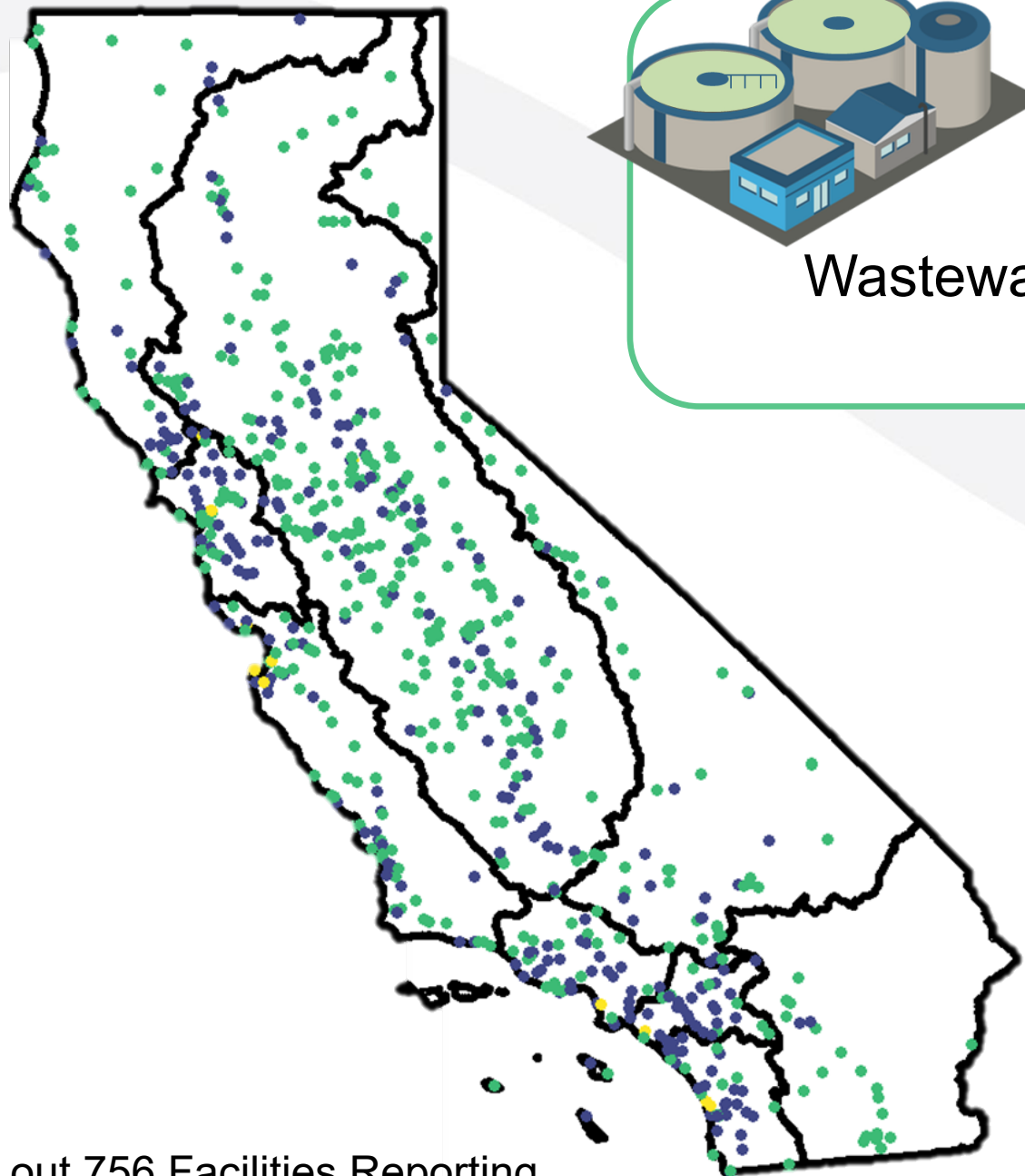
# Prior Reuse Surveys vs. Current Annual Report





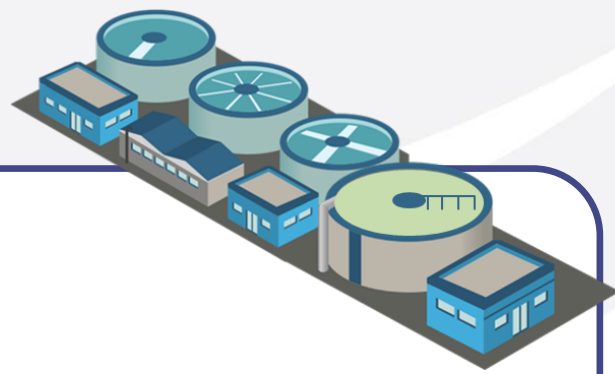
# The Big Reveal! 2019 Data Summary





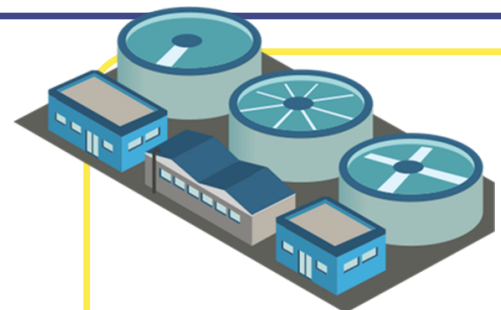
**428**

Wastewater Treatment  
Plants



**265**

Wastewater Treatment Plants that  
produce recycled water



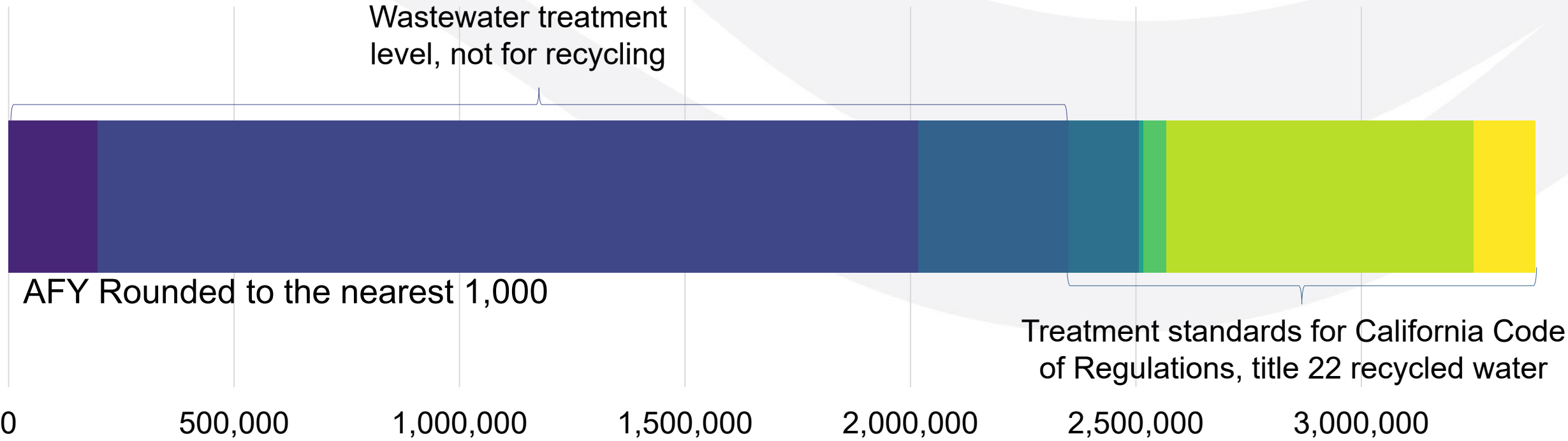
**17**

Recycled Water Producers\*

\* These facilities do not receive raw wastewater

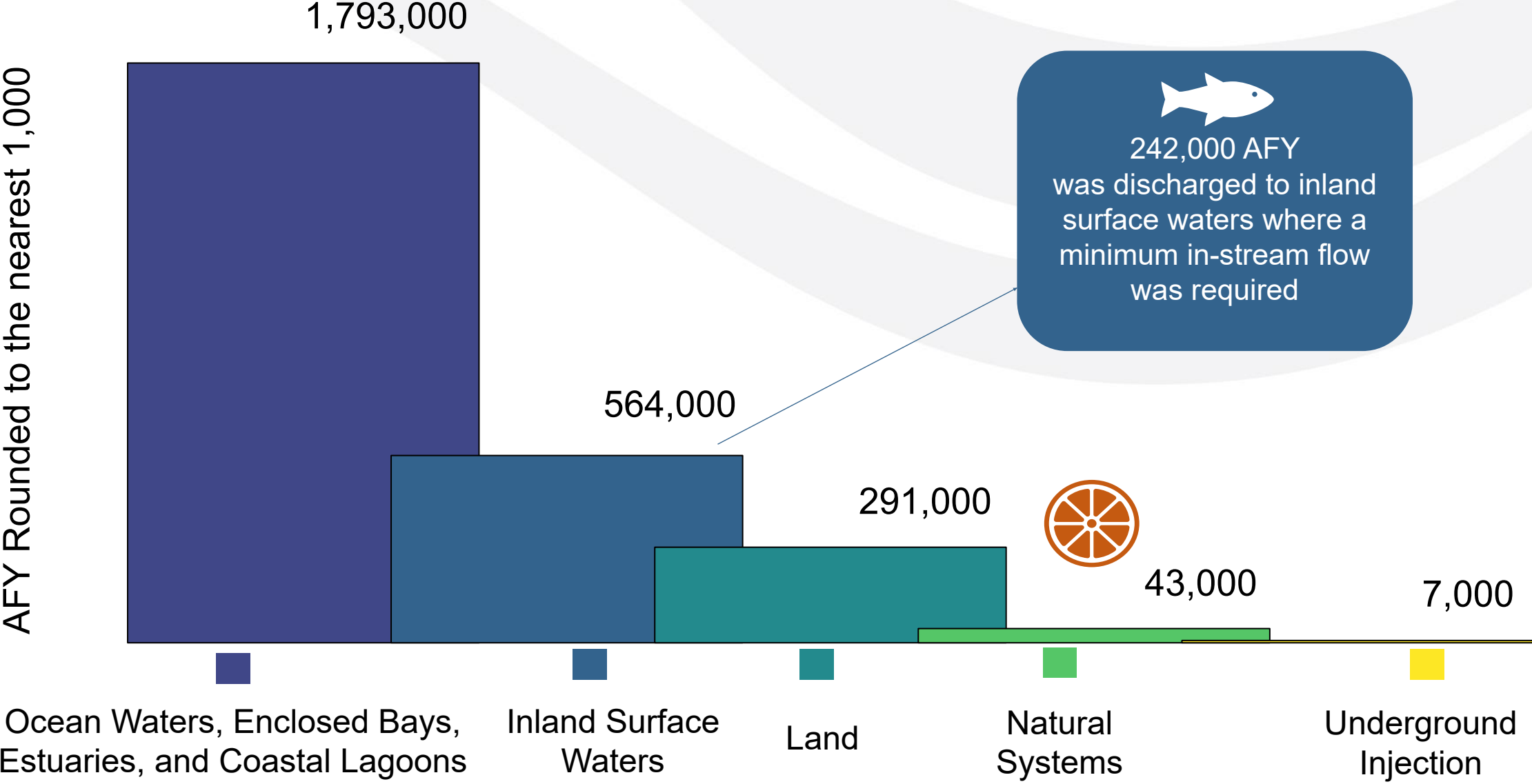
710 out of 756 Facilities Reporting

# Treatment Levels



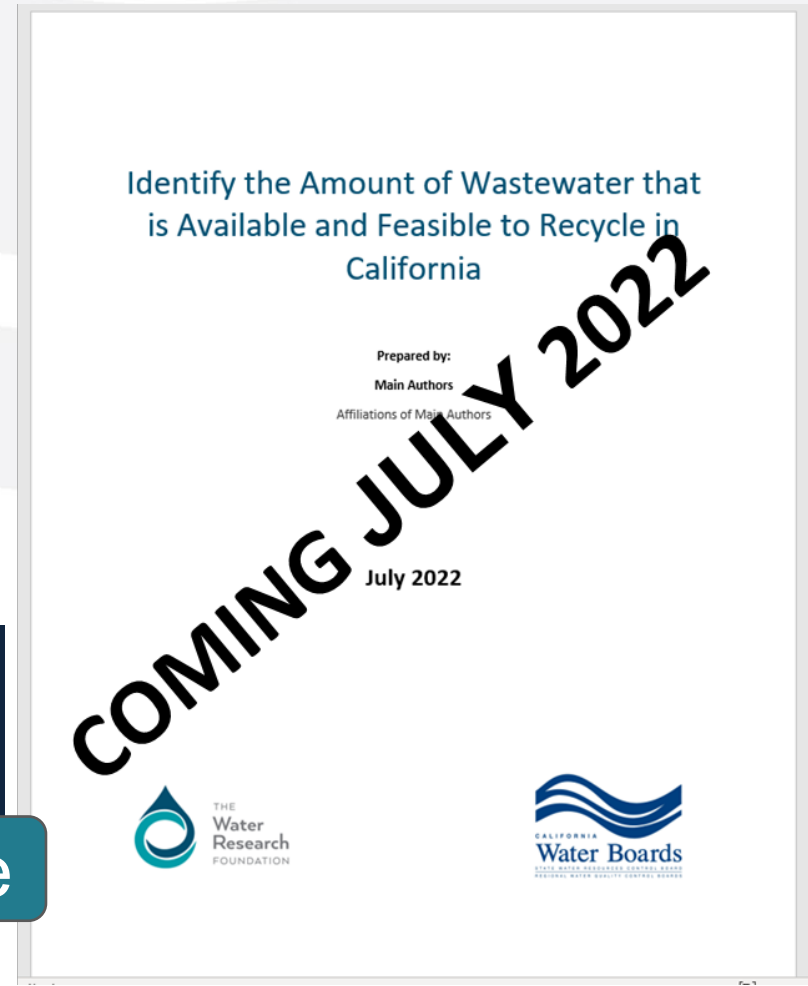
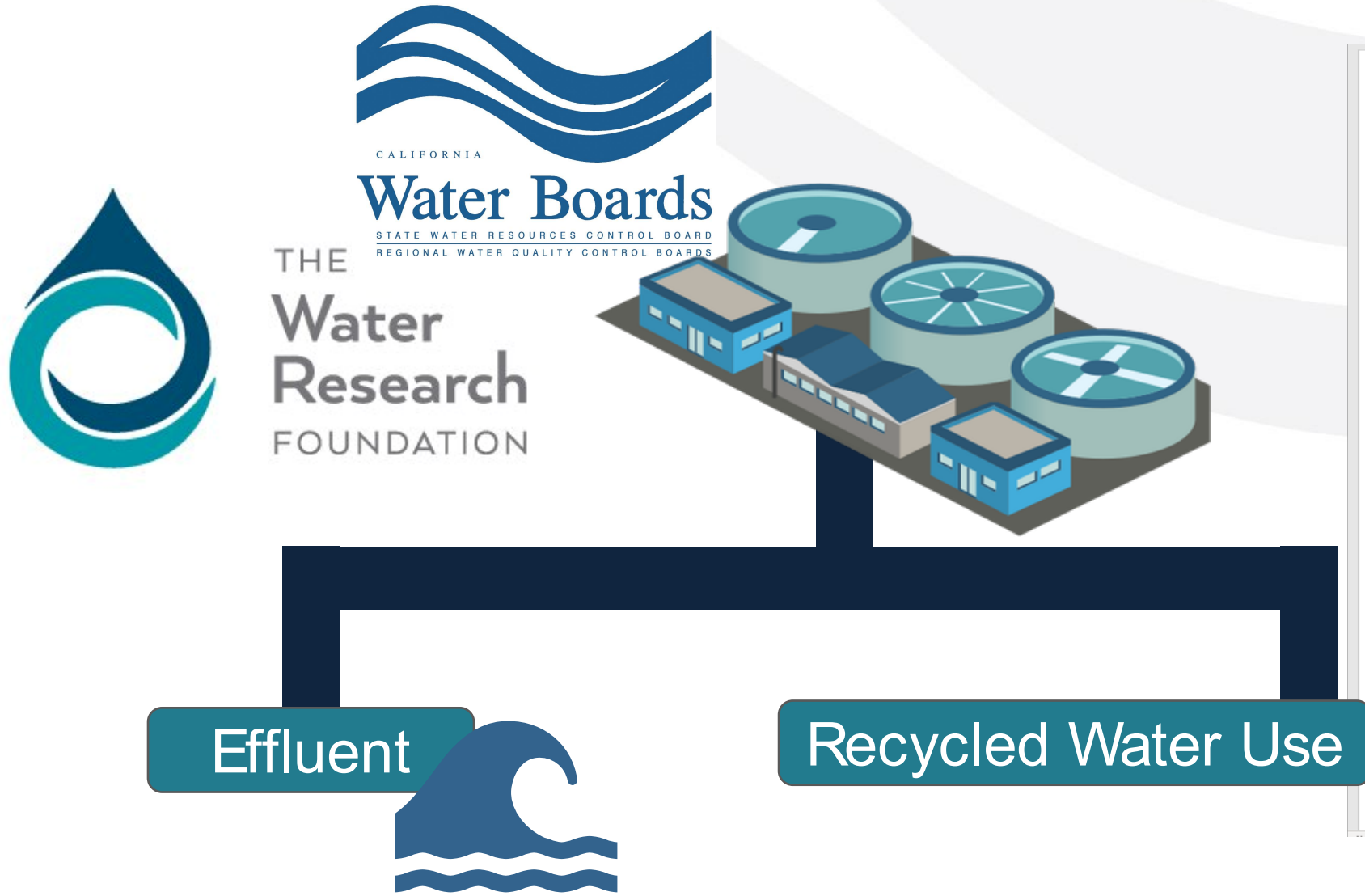
- Wastewater
  - Primary Treatment
  - Secondary Treatment
  - Tertiary Treatment
- Recycled Water
  - Undisinfected Secondary
  - Disinfected Secondary – 2.2
  - Disinfected Secondary – 23
  - Disinfected Tertiary
  - Full Advanced Treatment

# Effluent Volume Discharged



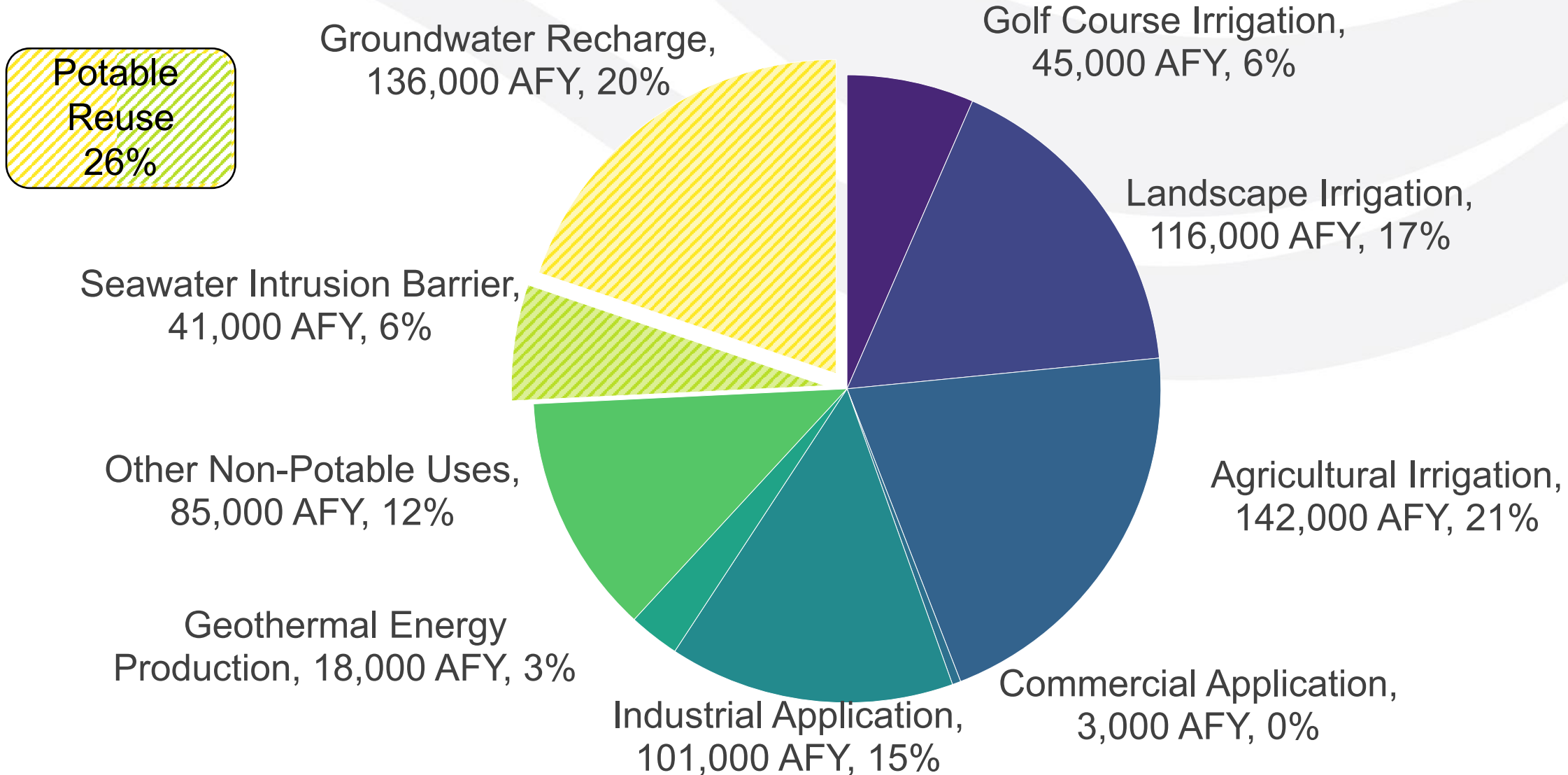


# Feasibility of Increased Recycled Water Use



# Recycled Water Use by Category

AFY Rounded to the nearest 1,000

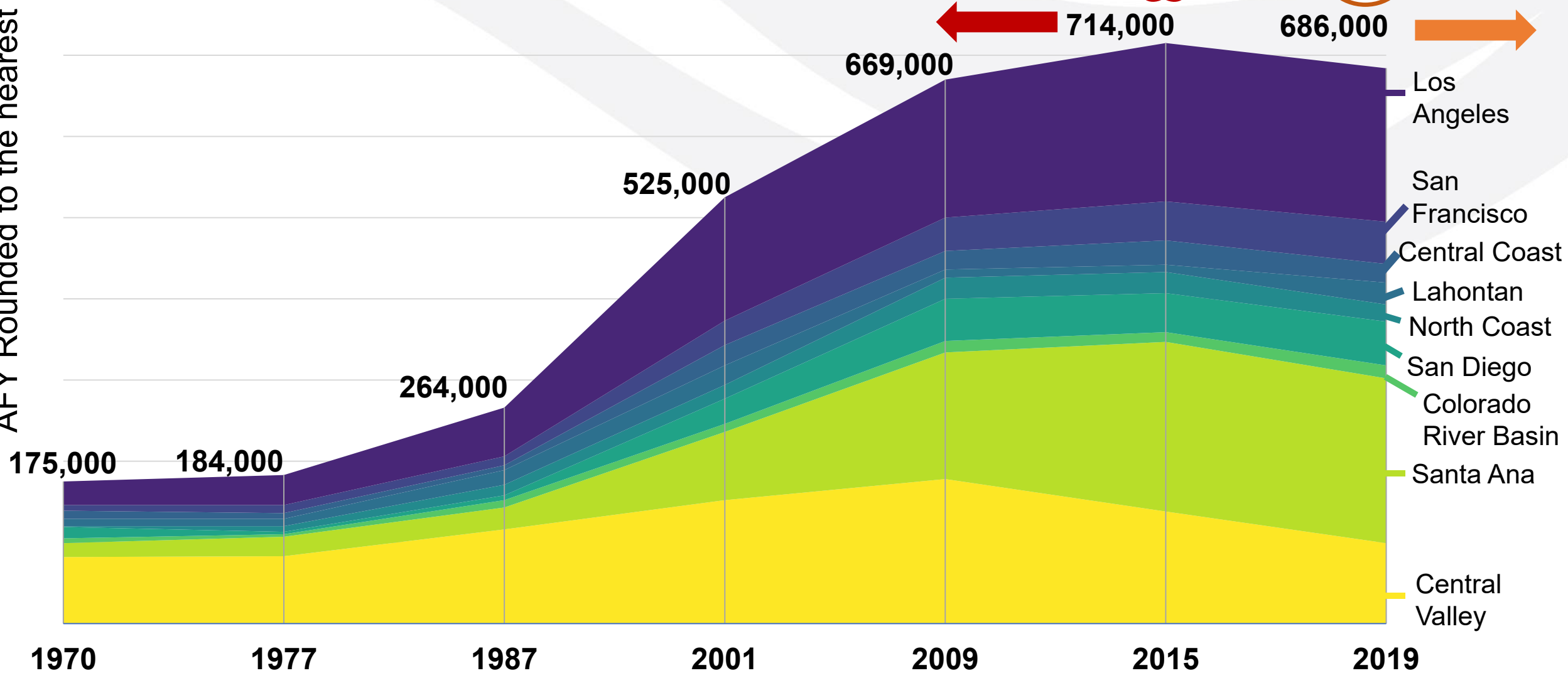


# Reuse in California from 1970-2019

## by Regional Water Quality Control Board

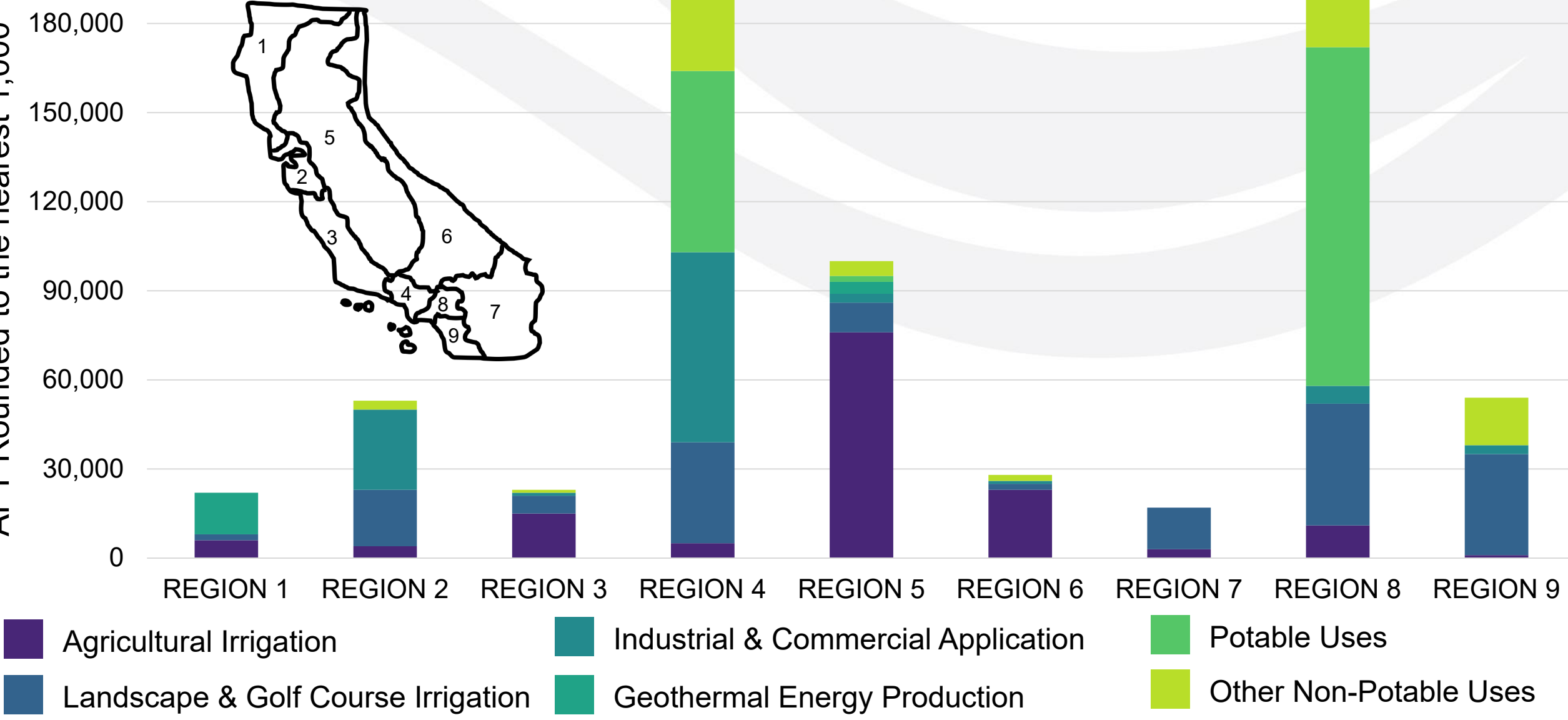


AFY Rounded to the nearest 1,000



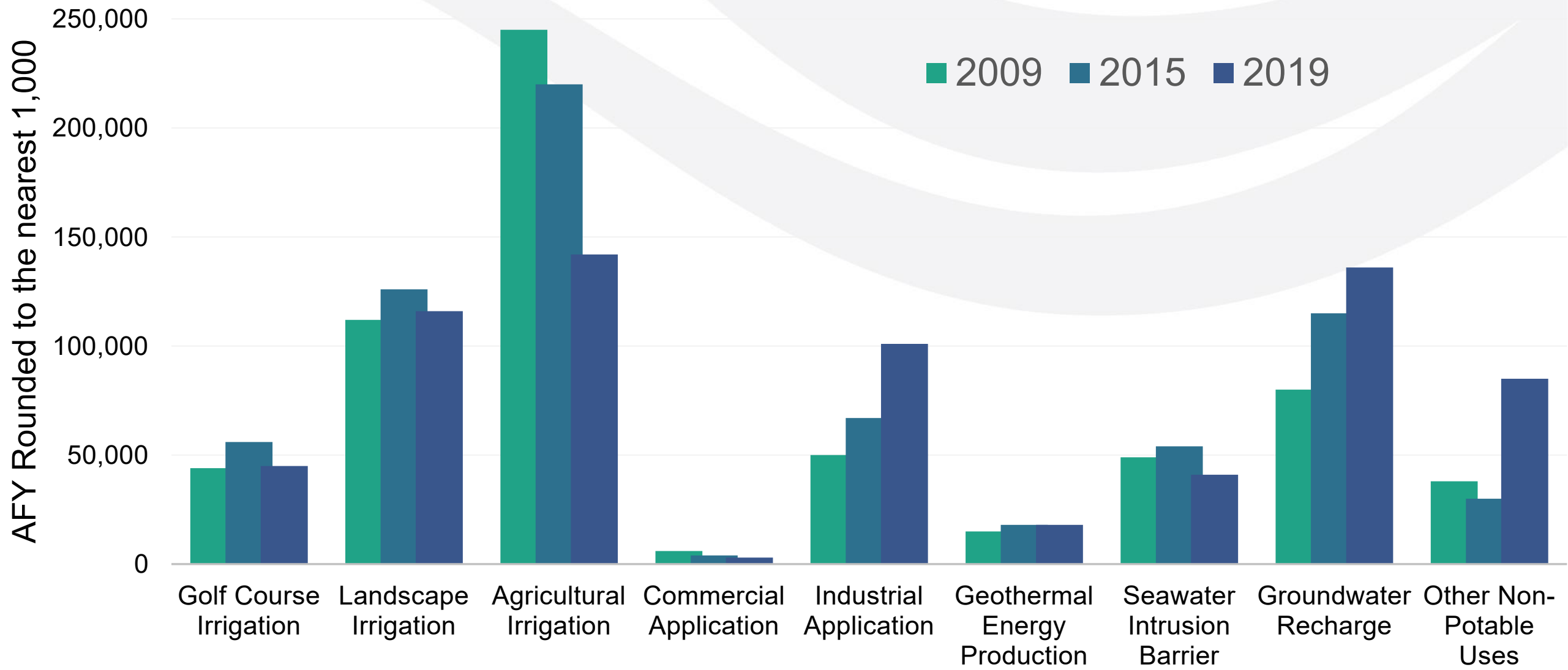
# Recycled Water Use by Regional Board

AFY Rounded to the nearest 1,000

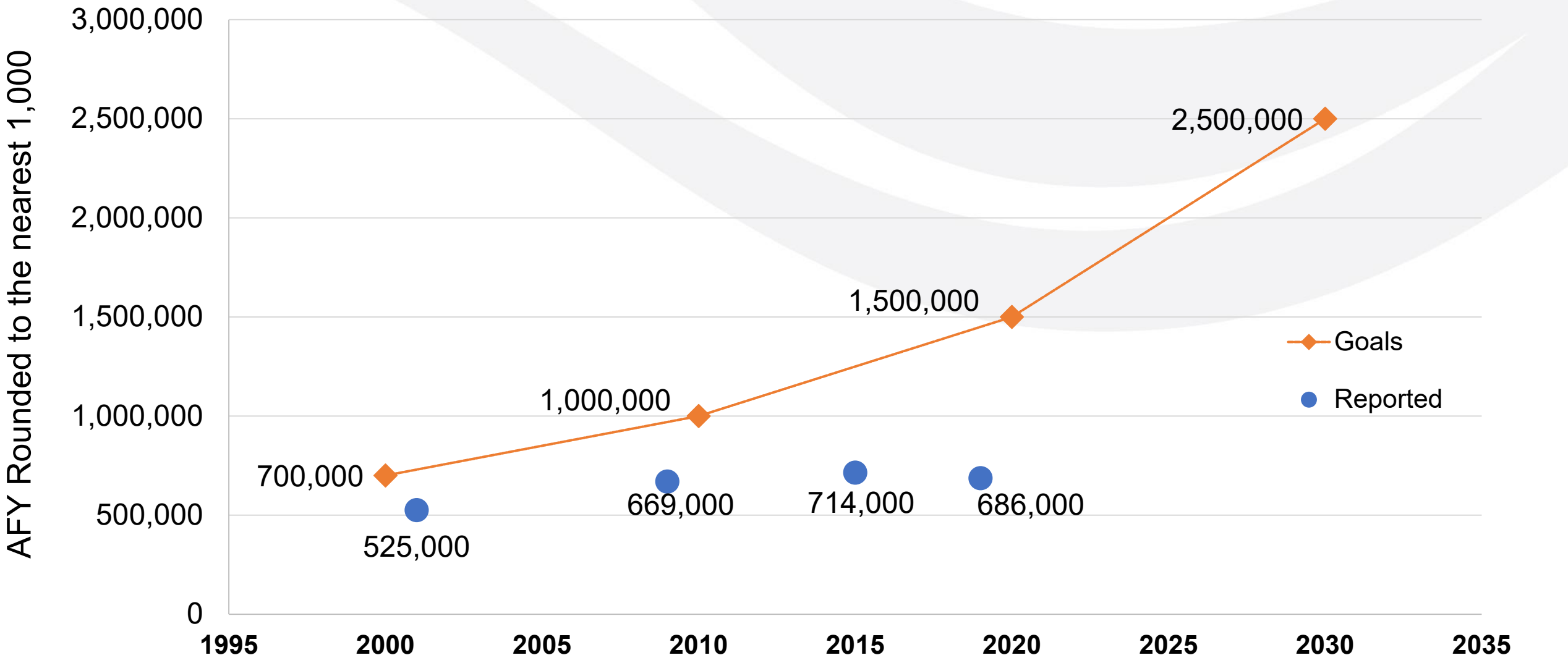




# Reuse by Category Comparison 2009-2019



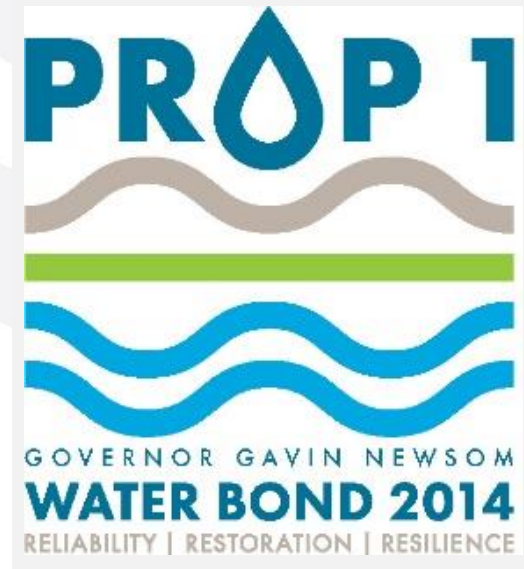
# What about the Recycled Water Policy Goals?



# Recycled Water Funding

190,000 AFY anticipated recycled water deliveries funded from 2015 to 2019

75% of projects funded are still under construction



# Moving Forward

## OPEN DATA

Publish 2019 Data set  
on Open Data Portal  
data.ca.gov  
January 2021



## OUTREACH

Conduct outreach and  
send reminders for  
Annual Report  
March 2021



## ENFORCEMENT

Notice of Violations for  
missing 2019 Reports  
February 2021



## ANNUAL REPORT

2020 Calendar Year  
Reports Due  
April 30, 2021





Inform water supply planning and evaluate goals



Promote consistent, annual, centralized open data



Take Away

Inform program development



Evaluate Trends in Water Use

# Contact Us

For assistance with creating a GeoTracker account can email:  
[geotracker@waterboards.ca.gov](mailto:geotracker@waterboards.ca.gov)

For assistance with the volumetric annual report, email:  
[recycledwater@waterboards.ca.gov](mailto:recycledwater@waterboards.ca.gov)

Help guides and additional resources and a link to the Open Data Portal can be found at:  
[waterboards.ca.gov/recycledwaterpolicy](http://waterboards.ca.gov/recycledwaterpolicy)