

Water Conservation and On-Site Reuse Pilot Incentives

Kevin Kluge, Water Conservation Division Manager



Outline

1. **Division Overview**
2. **Conservation Programs**
3. **Onsite Water Reuse Pilot**
4. **Recent Activities**
5. **Looking Forward**

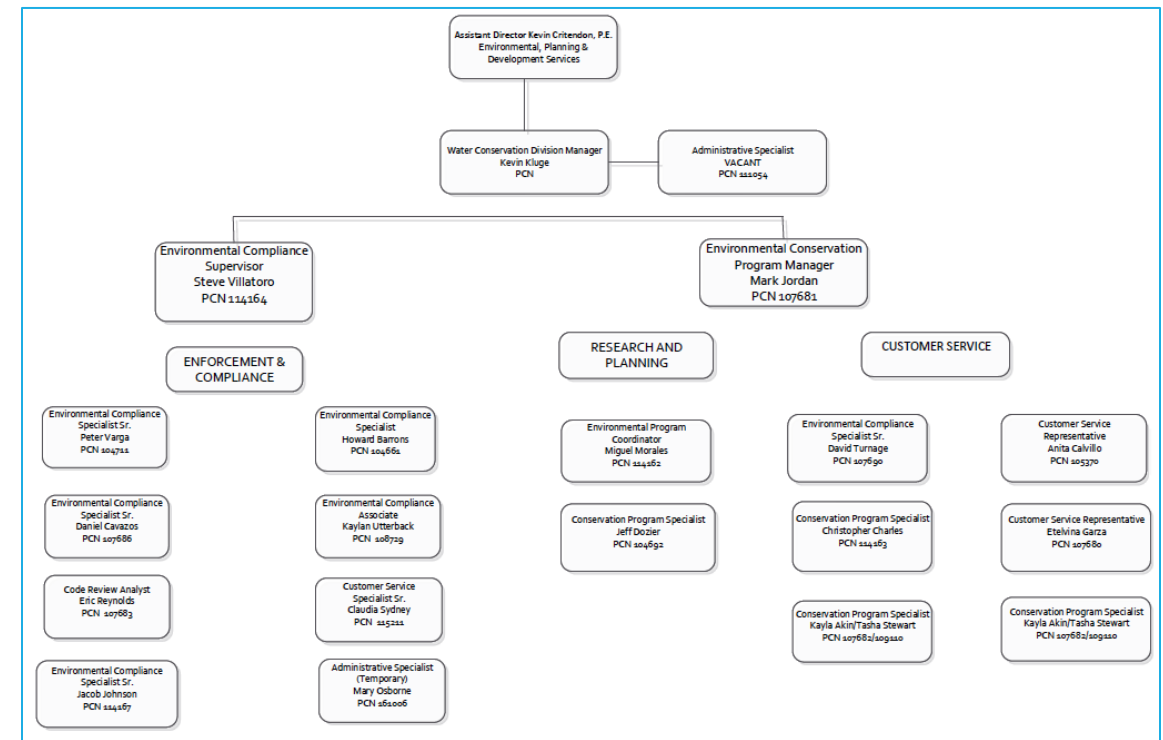


1. Division Overview

💧 Conservation Teams

- Customer Service Team – 6 staff members
- Research & Planning Team – 2 staff members
- Enforcement & Compliance Team – 8 staff (+ 1 temp)

💧 Related Activities & Teams

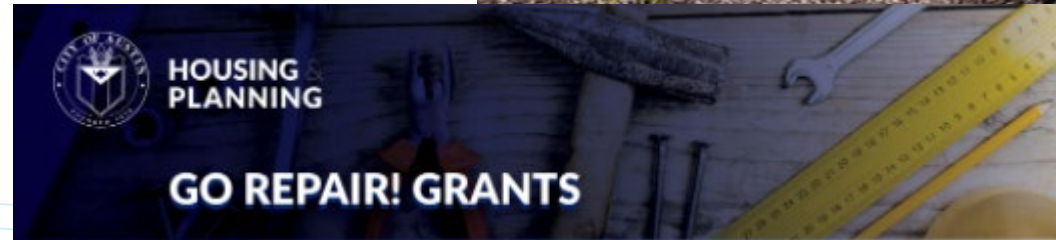


2. Conservation Programs



Customer Assistance

- 💧 Respond to inquiries
- 💧 Provide materials
- 💧 Irrigation audits for high-use customers
- 💧 Limited-income customer assistance program
- 💧 Public presentations



Incentives - Residential

- 💧 Irrigation Upgrade
- 💧 Landscape Survival Tools
- 💧 Water Wise Landscape
- 💧 Water Wise Raincape
- 💧 Watering Timer
- 💧 Pool Cover
- 💧 Cartridge Pool Filter



- 💧 Pressure Regulating Valve
- 💧 Rainwater Harvesting
- 💧 Laundry to Landscape
- 💧 Home Water Use Monitoring Device (pilot completed)

Incentives – Commercial



- ♦ Irrigation System Improvement
- ♦ Water Wise Rainscape (HOAs and schools)
- ♦ Pressure Regulating Valve
- ♦ Cartridge Pool Filter

- ♦ Bucks for Business
- ♦ Commercial Kitchen
- ♦ Water Efficiency Audit
- ♦ Rainwater Harvesting
- ♦ Onsite Reuse Incentives

Watering / Water Waste Enforcement

- 💧 1x week automated irrigation
- 💧 Patrols in marked vehicles
- 💧 Early Morning (4 am – 8 am)
and Night (7 pm – 11 pm)



Program Compliance Monitoring



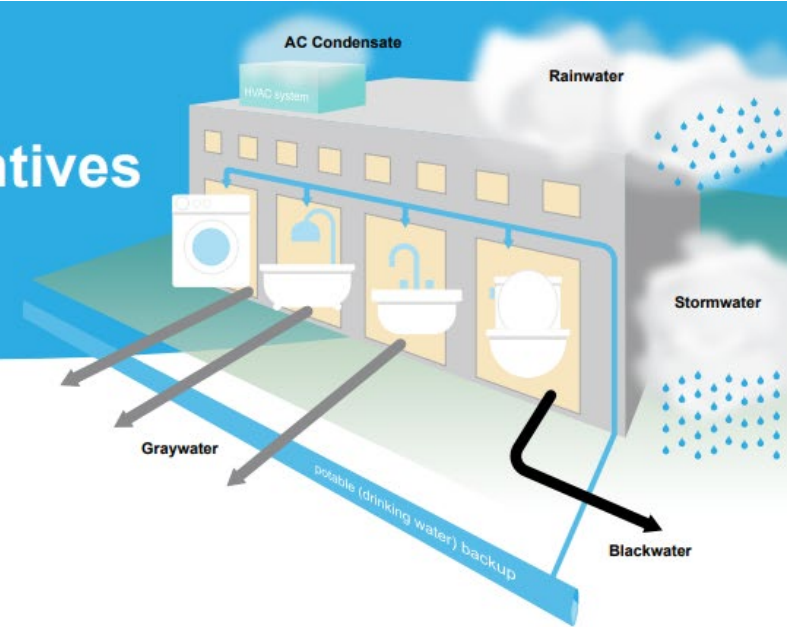
- 💧 Car wash efficiency
- 💧 Commercial irrigation
- 💧 Cooling tower efficiency

3. On-Site Reuse Systems (OWRS) Pilot Incentives



Alternative Water Ordinances and Incentives

Require or incentivize, on-site (building-scale) alternative water use (for rainwater, stormwater, blackwater, graywater and AC condensate)



- Austin Water received Council direction in May of 2019 to include Water Forward regulations into the LDC Revision
- AW was specifically asked to address onsite reuse in commercial developments $\geq 250,000$ sqft



PHASED IMPLEMENTATION APPROACH

Phase I took effect December 20, 2020

Voluntary OWRS Program

- New OWRS regulations in Title 15 (Utility Regulations) for the design, permitting and operation and maintenance of multi-family & commercial systems
- Incentive program implemented to encourage voluntary adoption of OWRS in new development to test out the new regulatory framework

Phase 2 to take effect late 2023 (pending adoption)

Mandatory OWRS Program

- Mandatory installation of OWRS for commercial and multi-family developments $\geq 250,000$ sq. ft. in Title 25 (Land Development Code)
- Updated regulations for Title 15 on the applicability for the mandate along with provisions for enforcing the mandate

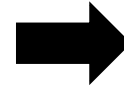


AUSTIN WATER'S PILOT INCENTIVE PROGRAM

PILOT INCENTIVE PROGRAM

Incentive Amount

- **1,000,000** gallons per year are eligible for **\$250,000**; or
- **3,000,000** gallons per year are eligible for **\$500,000**.



Minimum of 1 MGY per project is in line with 250,000 square-foot developments

Funding Justification

These incentive amounts target installation of large onsite reuse systems that will help develop the local program. AW will collect system cost and O&M data for projects and will establish streamlined project approval procedures.



AW will get:

- Project cost data
- Benefits to developers (reduced water bills, etc.)
- Integration with current development review process
- Successful project implementation & continued use
- Establish system operator proficiencies

Effectiveness

AW is targeting 2-4 systems per year over 3 years, \$1M budgeted per year



The pilot program will end when the mandatory program begins

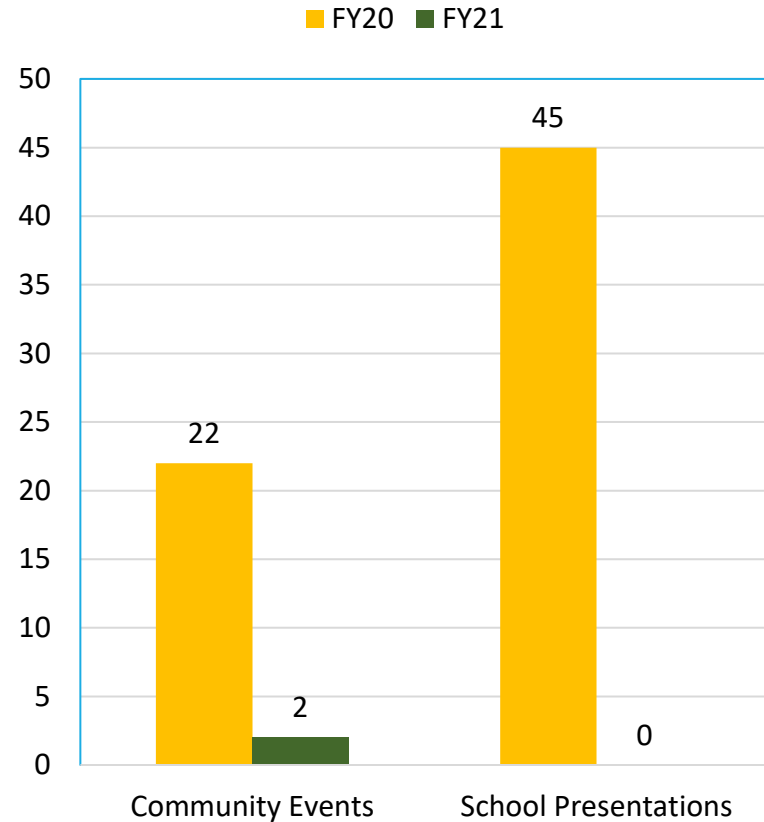


4. Recent Activities

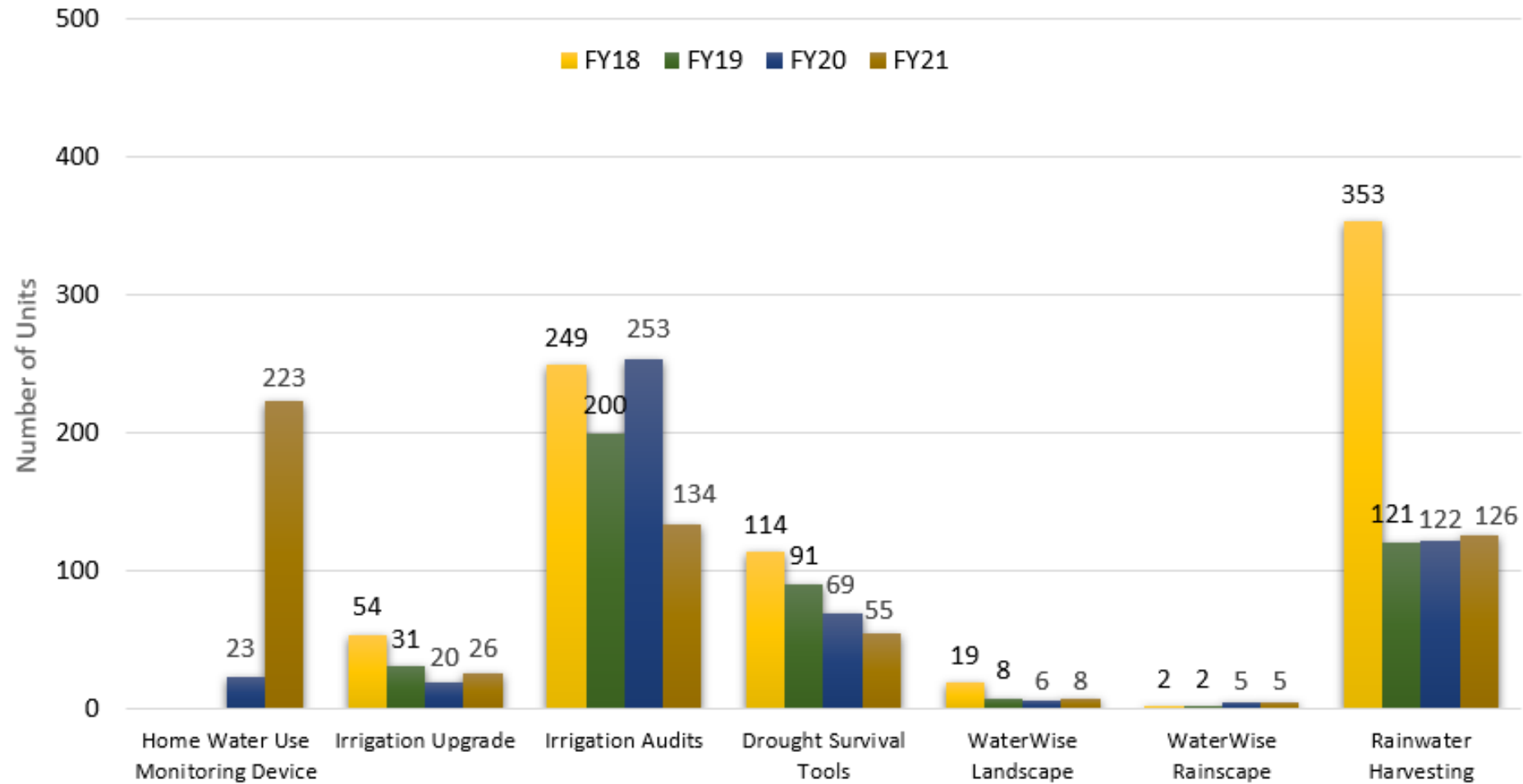
SUMMARY

- 💧 Outreach activities have been challenging
- 💧 Incentive programs holding steady or declining
- 💧 Mandatory programs require monitoring

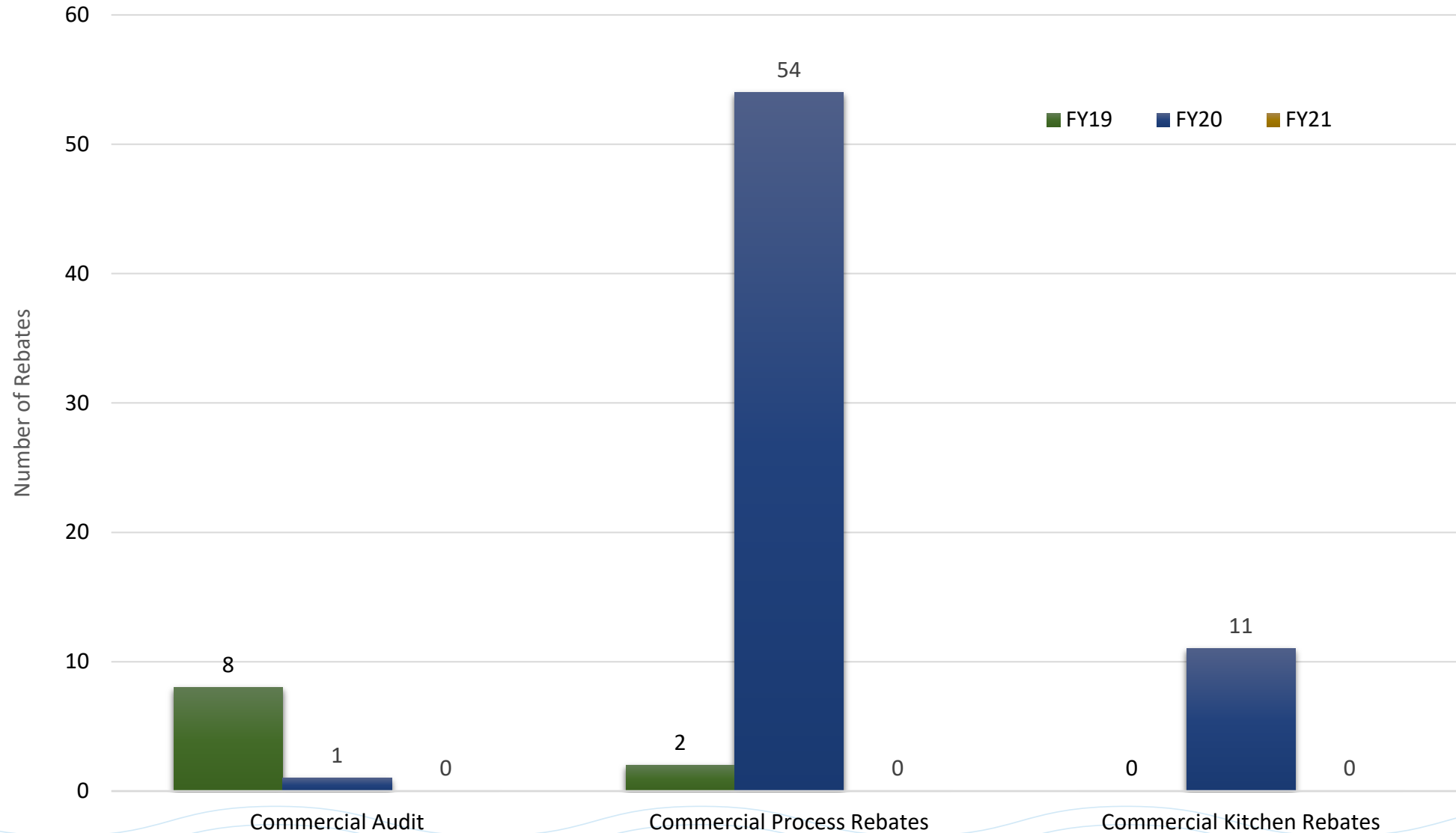
Number of Events



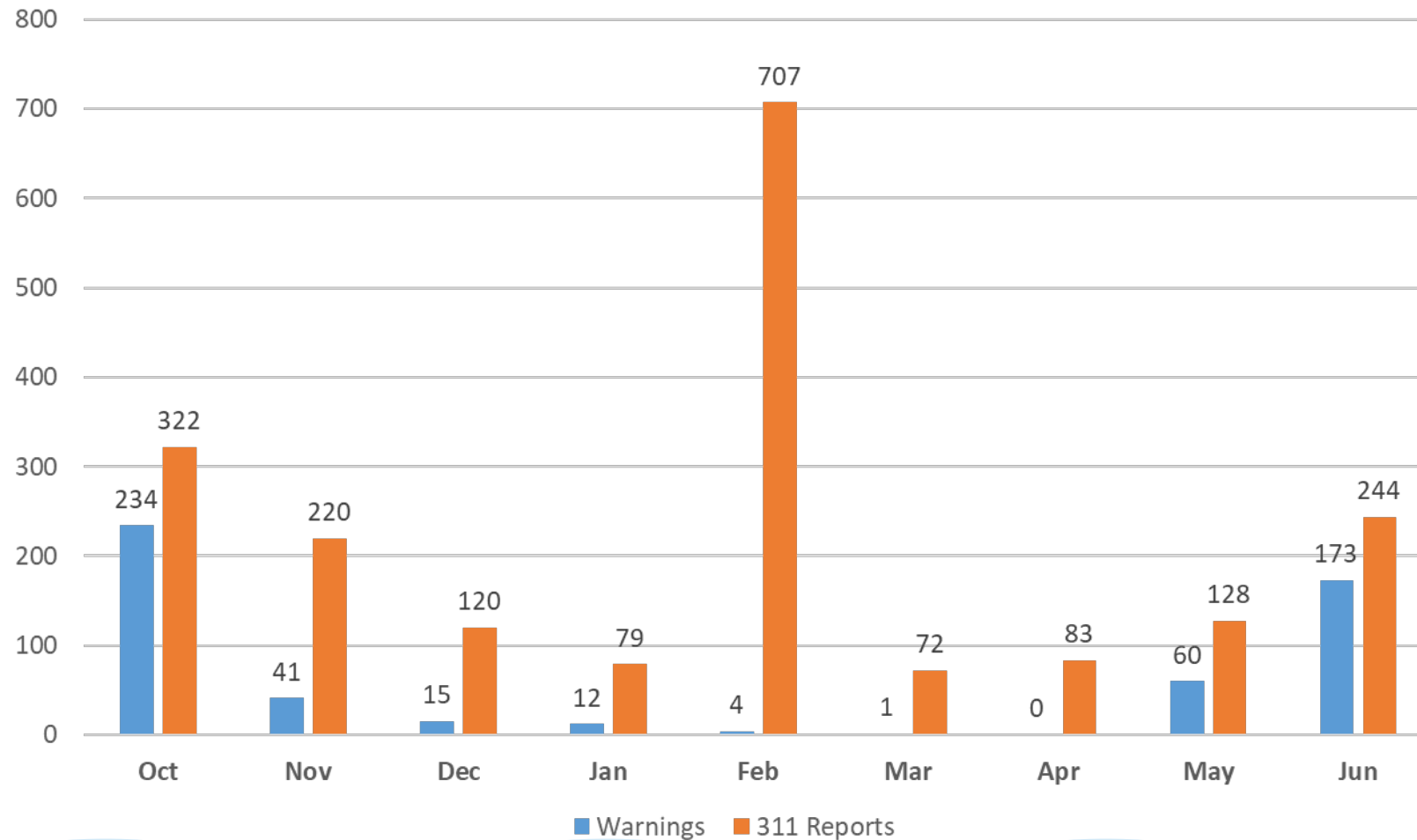
Residential Incentives



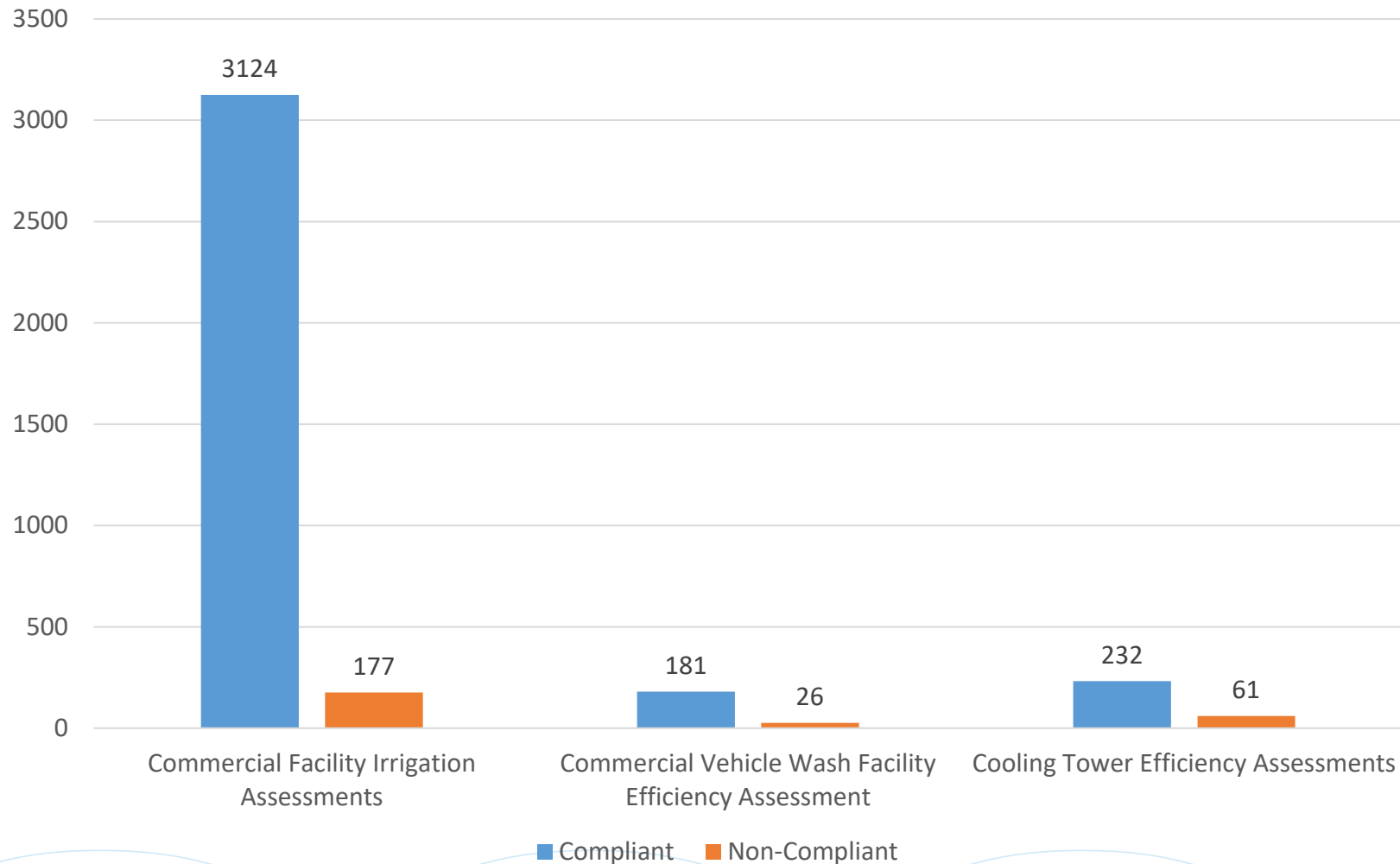
Commercial Incentives



Watering / Water Waste Enforcement: Warnings and 311 Reports



Program Monitoring Compliance

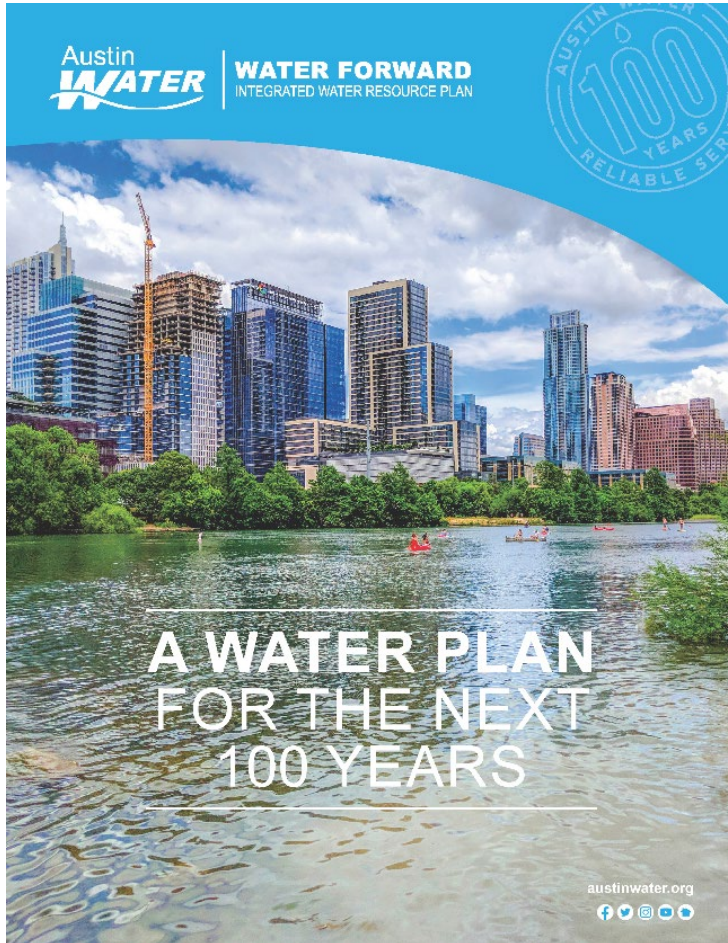


Water Forward 2018 Progress

Option #/ Type	Recommended Strategies	Average/ Drought	Estimated Yield (Acre Feet per Year) ¹			
			2020	2040	2070	2115
	Demand Management Strategies					
D1	Advanced Metering Infrastructure (AMI)	Both	600	3,880	5,770	9,370
D2	Utility Side Water Loss Control	Both	3,110	9,330	10,918	13,060
D3	Commercial, Industrial, and Institutional (CII) Ordinances	Both	1,060	1,060	1,060	1,060
D4	Water Use Benchmarking and Budgeting	Both	-	5,950	11,670	25,230
D5	Landscape Transformation Ordinance	Both	-	3,040	7,430	15,050
D6	Landscape Transformation Incentive	Both	-	320	630	930
D7	Irrigation Efficiency Incentive	Both	40	210	430	390
D8	Lot Scale Stormwater Harvesting	Both	-	330	870	2,280
D9	Lot Scale Rainwater Harvesting	Both	-	1,550	4,030	9,250
D10	Lot Scale Graywater Harvesting	Both	-	2,130	5,620	12,670
D11	Lot/Building Scale Wastewater Reuse	Both	-	1,320	3,670	7,880
D12	Air Conditioning (AC) Condensate Reuse	Both	100	1,080	2,710	5,150
	Demand Management Strategies Sub-Total	-	4,910	30,200	54,810	102,320



Water Forward 2018 Progress



- Residential / Multi-Family
 - Increased rebate amounts
 - Added new programs
- Commercial / Institutional
 - Incentives increased and expanded
- Ordinances
 - Cooling Towers

5. Looking Forward

- Review of programs and savings
- AMI development
- OWRS outreach and incentives
- Irrigation efficiency incentives
- Landscape transformation ordinance



Thank You

Kevin Kluge

Water Conservation
Division

