

Water Conservation Program Overview

Kevin Kluge, Water Conservation Division Manager



Outline

1. **Division Overview**
2. **Conservation Programs**
3. **Recent Activities**
4. **Looking Forward**

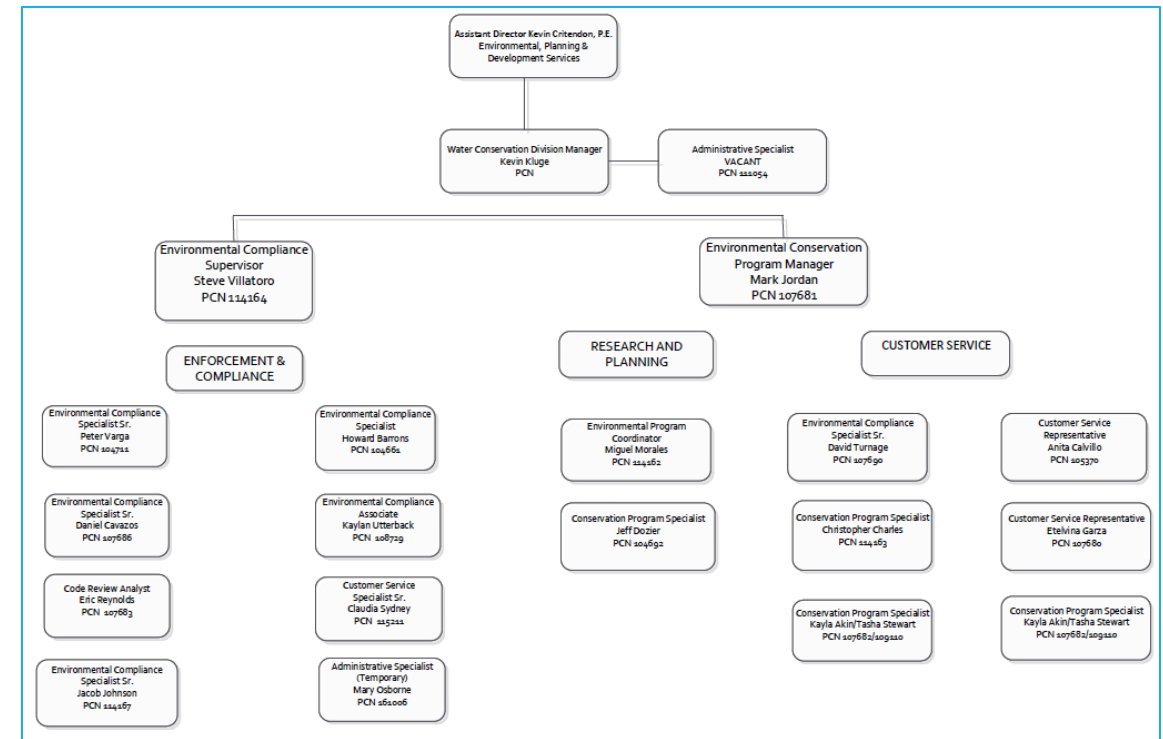


1. Division Overview

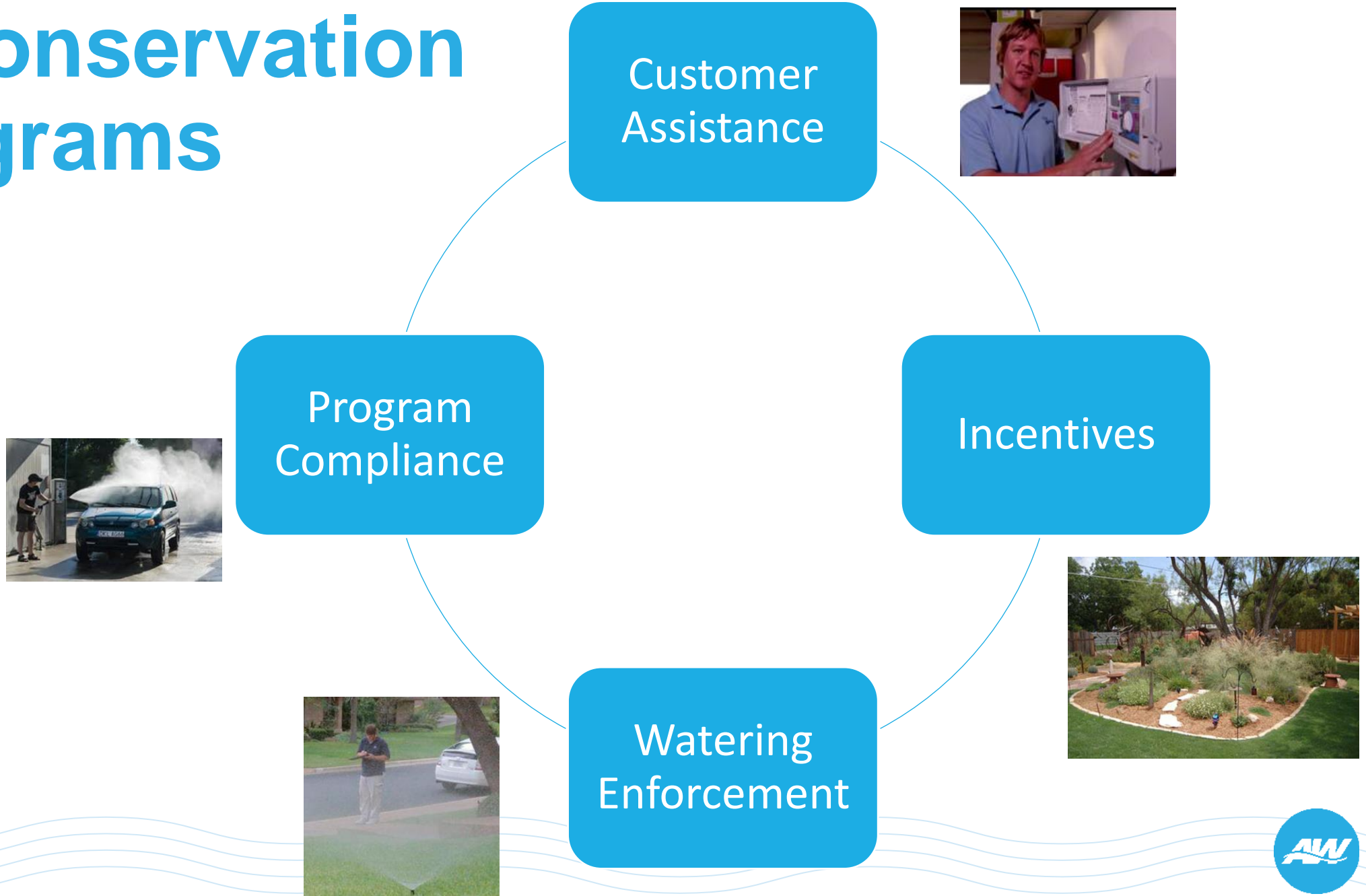
💧 Conservation Teams

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

💧 Related Activities & Teams

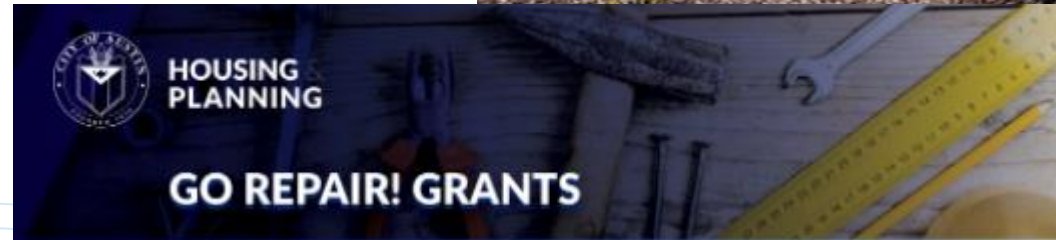


2. Conservation Programs



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
- ◆ Alternative Onsite Reuse

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



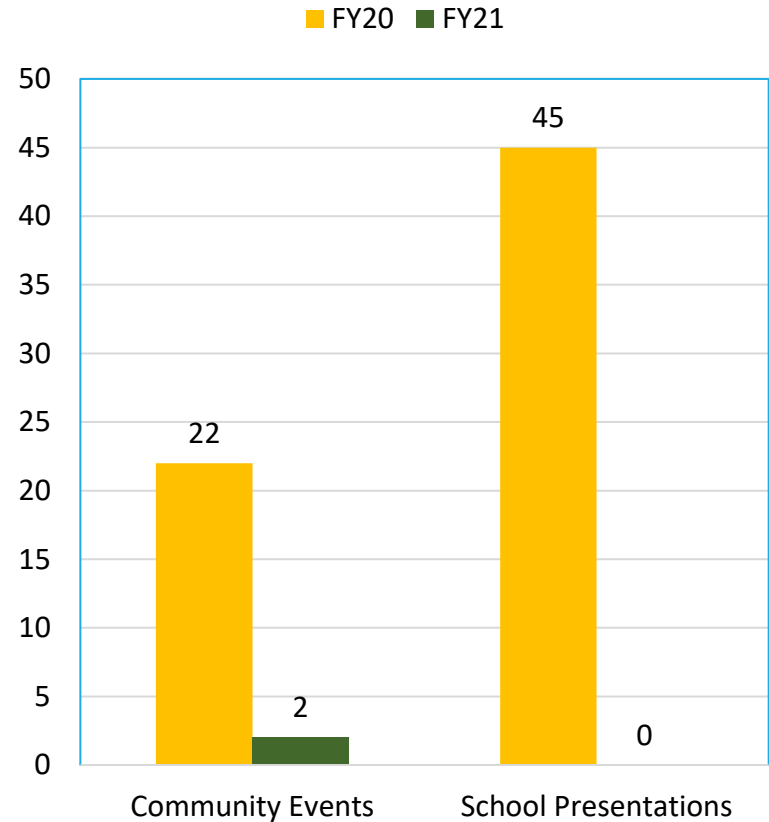
- 💧 Car wash efficiency
- 💧 Commercial irrigation
- 💧 Cooling tower efficiency

3. Recent Activities

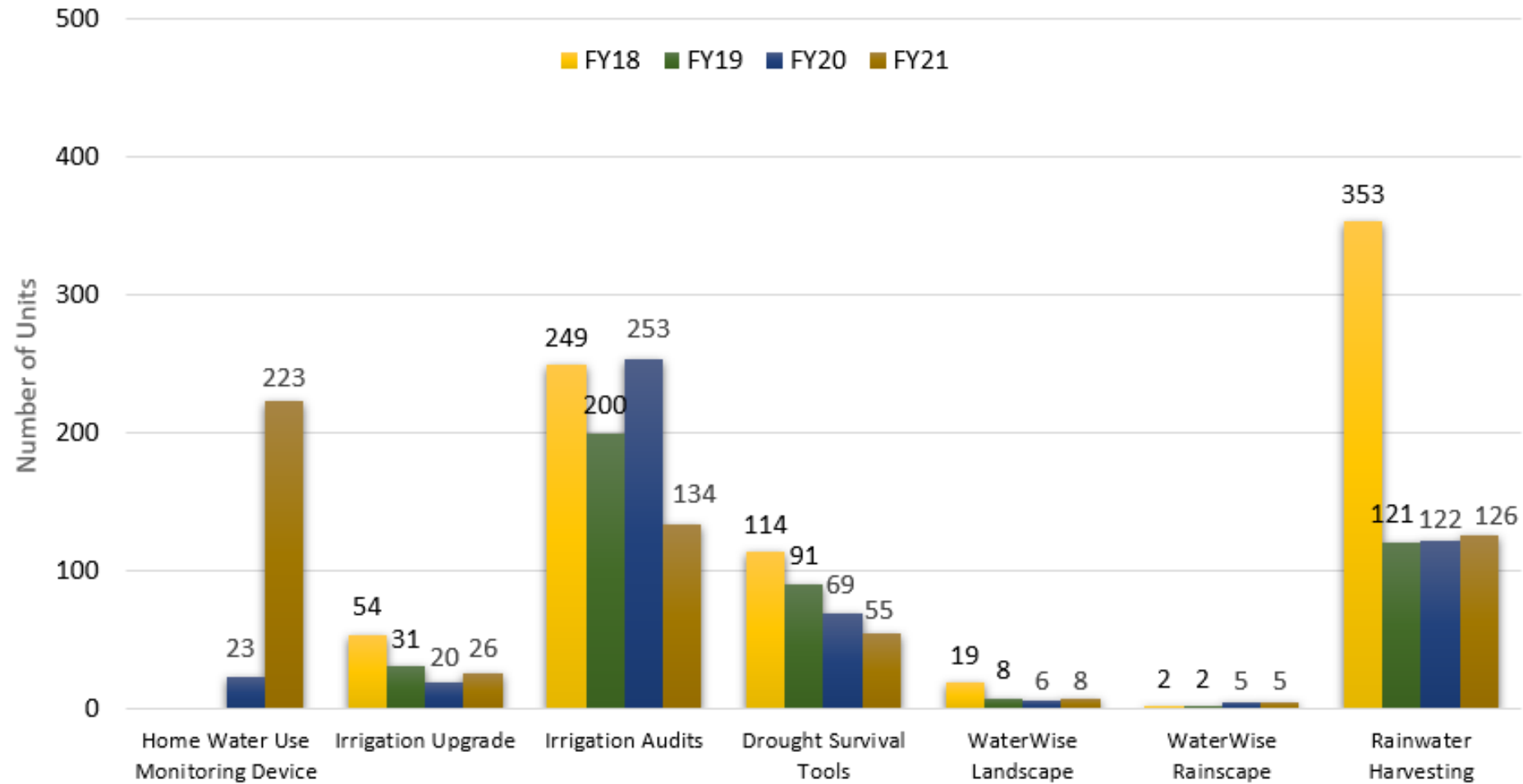
SUMMARY

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

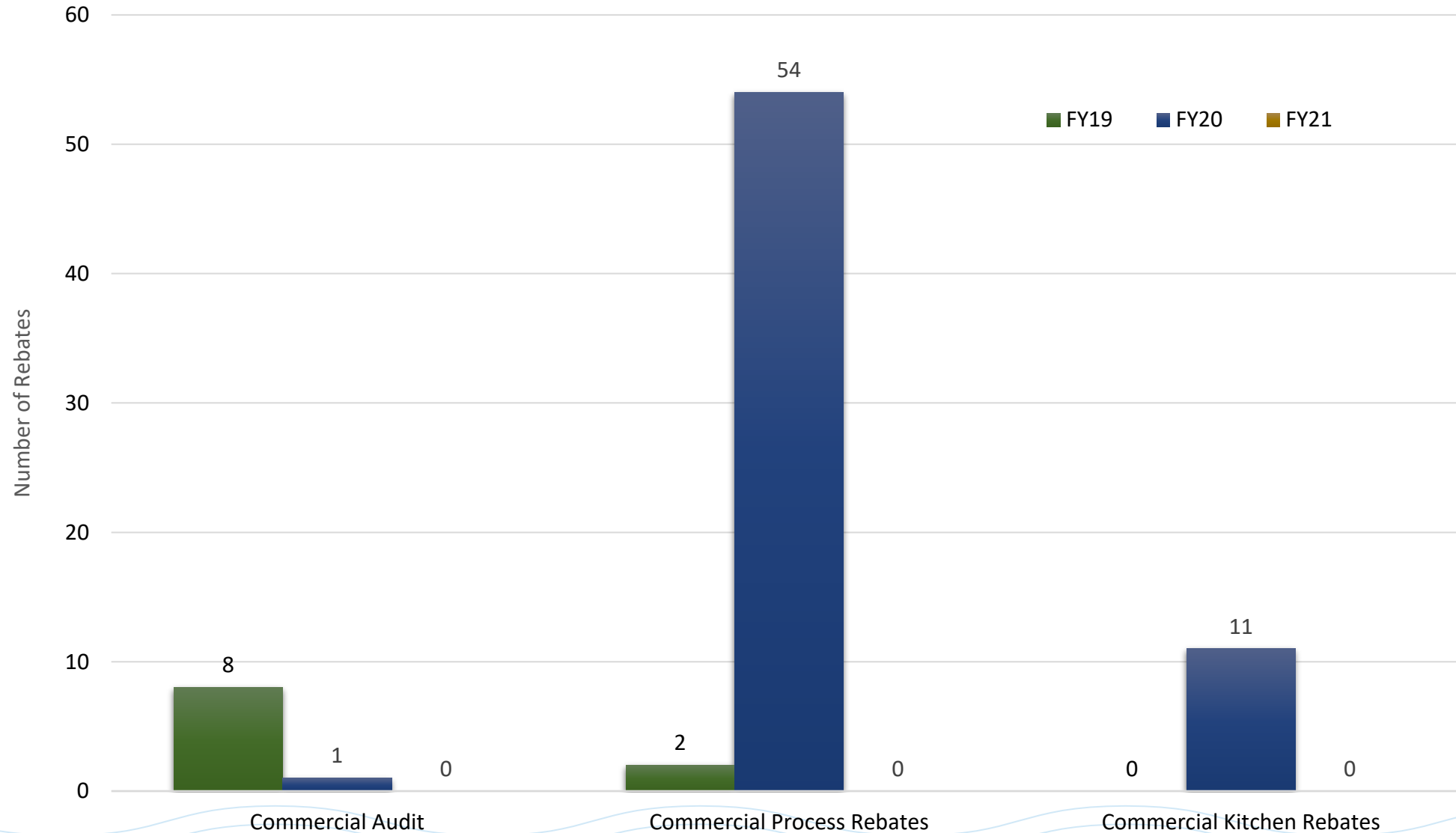
Number of Events



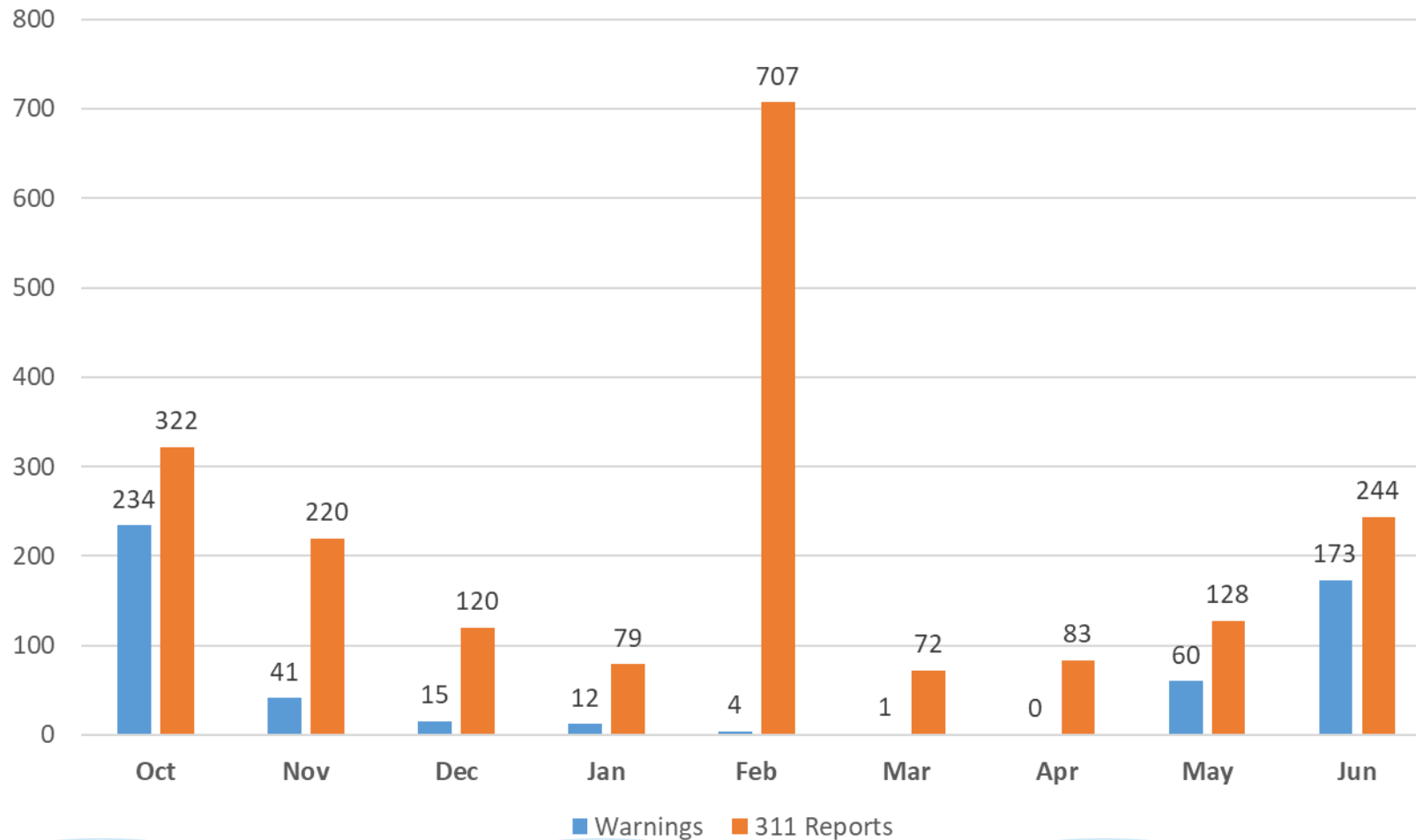
Residential Incentives



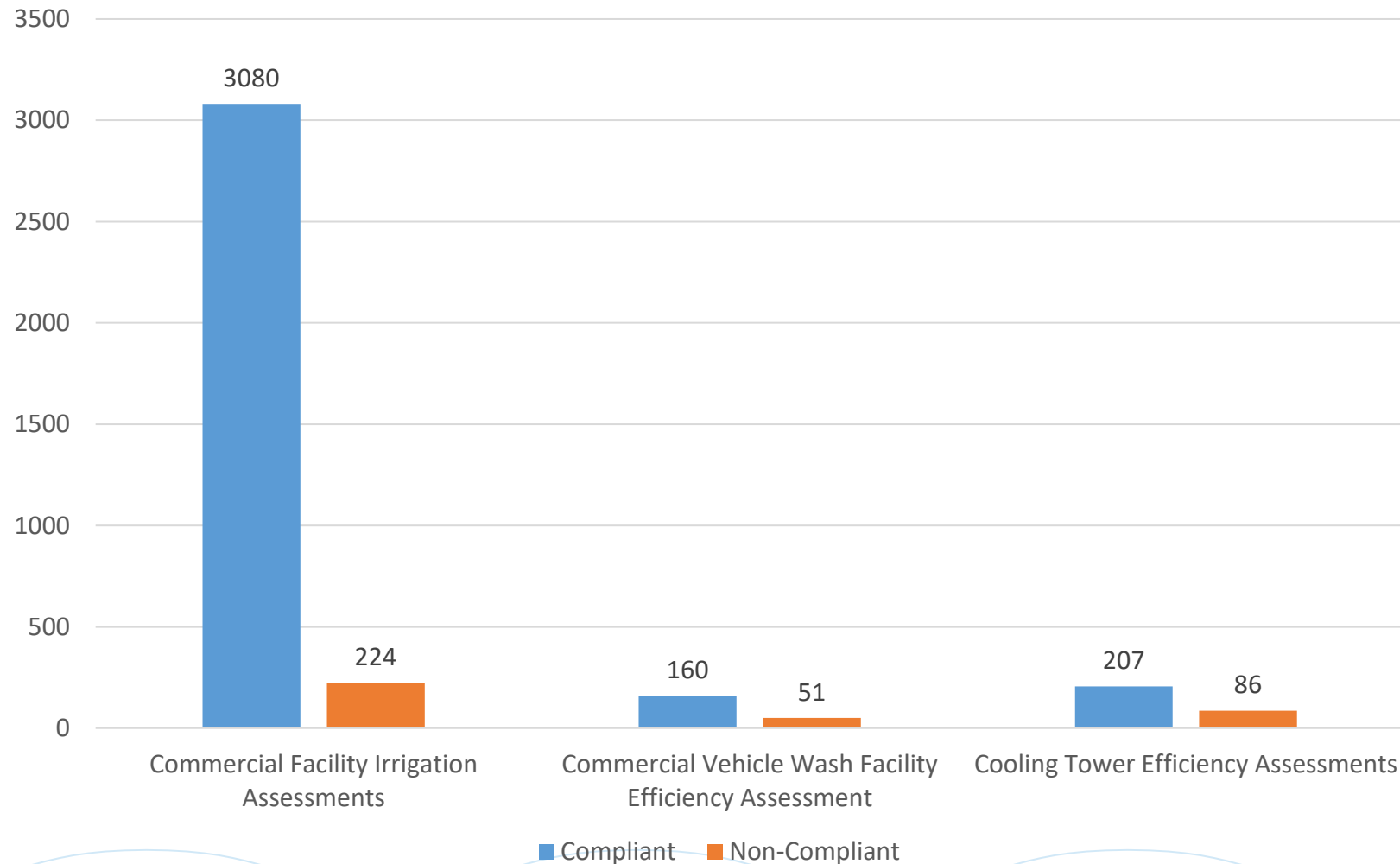
Commercial Incentives



Watering / Water Waste Enforcement: Warnings and 311 Reports



Program Monitoring Compliance

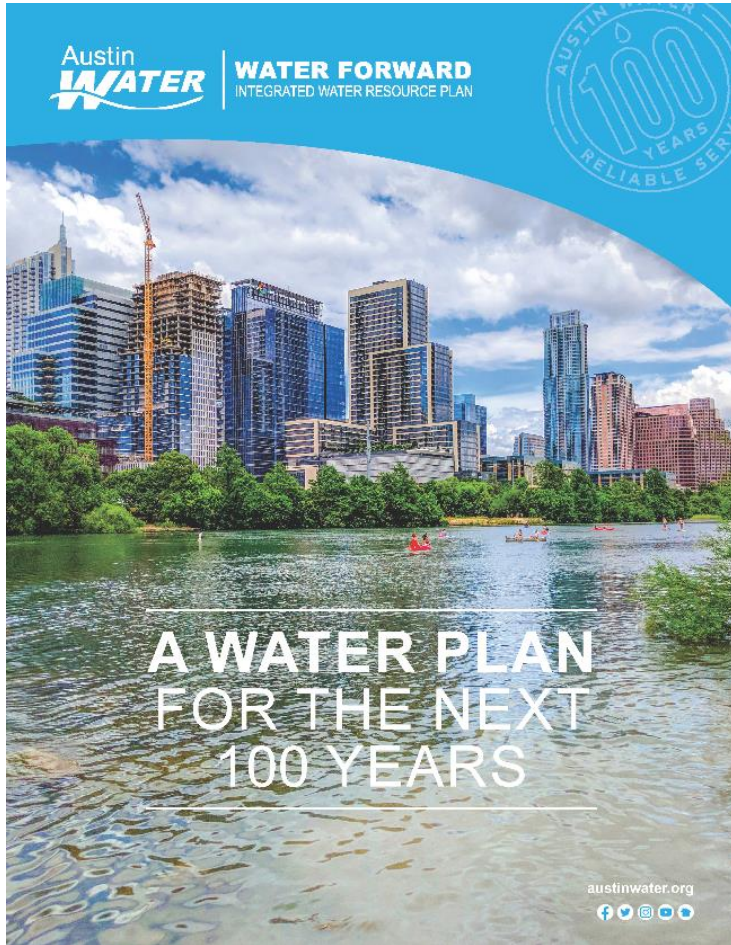


Water Forward 2018 Progress

| 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

4. Looking Forward

- 💧 Review of programs and savings
- 💧 AML coordination
- 💧 Irrigation efficiency incentives
- 💧 Landscape Transformation Ordinance



Thank You

Kevin Kluge

Water Conservation Division

