

Water Conservation Report: Legislation and Current Conservation Efforts

May 14, 2019



Presentation Overview

- 2018 Legislative Actions (AB 1668, SB 606, AB 555)
- Current Conservation Regulations and Compliance
- Making Conservation a California Way of Life
- Comprehensive Water Conservation Plan
- Future Conservation Requirements



2018 Legislative Actions

AB 1668 and SB 606

- Authorize monthly reporting regulations
- Shift from percent reduction to efficiency based approach
- Includes new requirements to urban and agricultural water management planning

AB 555

- Authorizes development of standards for system water loss
- Allows for development of water loss objectives

Making Conservation a California way of Life



Current Conservation Requirements and Compliance

2008 20x2020 Objective

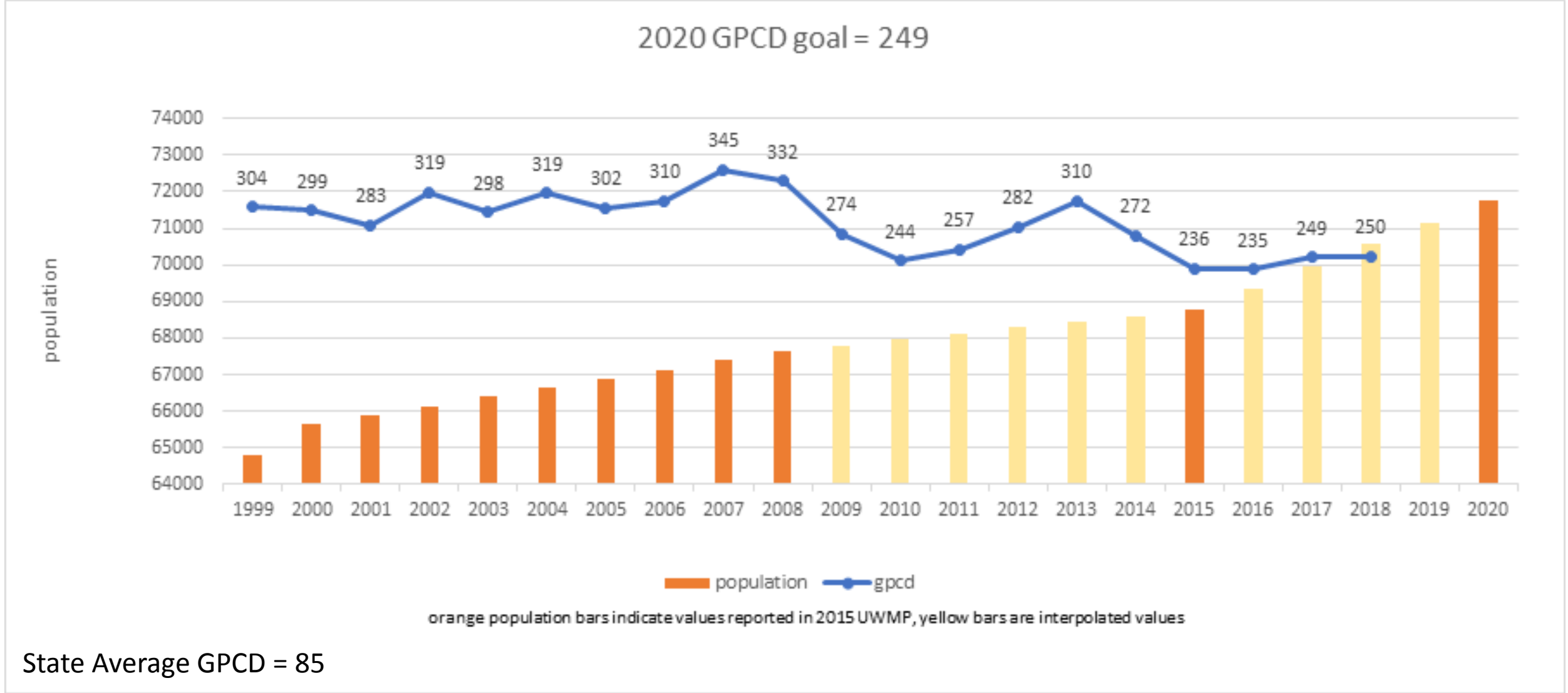
- 20% reduction in water use from 2013 baseline year
- Based on aggregate water use
- 2013 gpcd (310) vs. 2020 gpcd (249)
- Statewide average gpcd = 85

Drought Specific Objectives

- 36% reduction from 2013 baseline water use
- Achieved a 28% reduction (6/15 - 6/16)

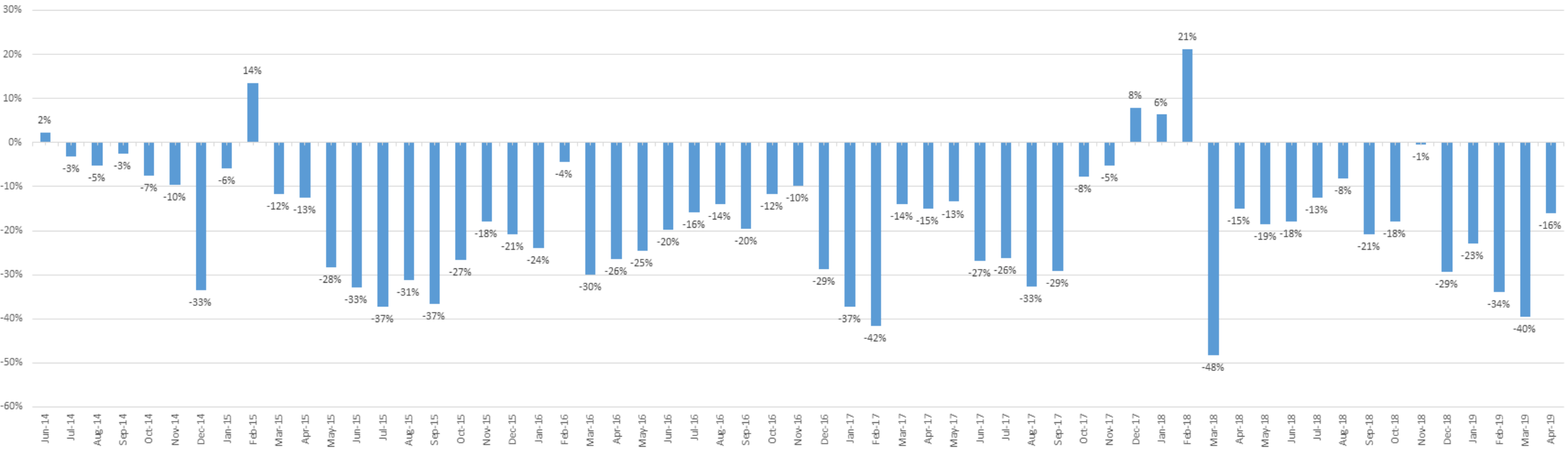


Current Conservation Requirements and Compliance



Current Conservation Requirements and Compliance

Percentage Water Production compared to 2013 baseline



Making Conservation a California Way of Life

Primary Goals:

- Use Water More Wisely
- Eliminate Water Waste
- Strengthen Local Drought Resilience
- Improve Agricultural Water Use Efficiency and Drought Planning



MAKING WATER CONSERVATION A CALIFORNIA WAY OF LIFE

Primer of 2018 Legislation on Water Conservation and Drought Planning

PREPARED BY



California Department
of Water Resources

AUGUST 2018



Making Conservation a California Way of Life

List of Near-term Agency Projects for Implementing 2018 Legislation on Water Conservation and Drought Planning

This list of projects includes early tasks identified in Appendix B of the Primer. State Water Board's rule-making processes for adopting regulations are not listed.

| Subject | Project |
|-----------------------------------|---|
| Urban Water Use Efficiency | Wholesale Water Loss Reporting Feasibility Study and Recommendations |
| | Residential Indoor Water Use Study |
| | Residential Outdoor Water Use Study |
| | Outdoor Landscape Area with Dedicated Irrigation Meters for CII Water Use Study |
| | Recommendations for Urban Water Use Standards, Guidelines and Methodologies for Calculating Urban Water Use Objectives, and Variances |
| | CII Performance Measures |
| | Reports to the Legislature |
| Drought Planning | Annual Water Supply and Demand Assessment |
| | Water Shortage Contingency Planning and Drought Risk Assessment |
| | Countywide Drought Planning |
| Agricultural Water Use Efficiency | Farm-gate Delivery Reporting |
| | Agricultural Water Management Planning |
| Data | Data Streamlining Reporting and Accessibility |
| | CIMIS system and information upgrades, including GIS-enabled interface |

Use Water More Efficiently

- Budget-based approach to developing a water use objective for urban retail water suppliers
- Water use objective is an aggregate of all water use in each service area
- Statewide mapping of irrigated area
- Declining indoor water budget 55 gallons per person per day initially – 52.5 (2020), 50 (2030)
- Possible standards for CII water use
- Includes variances
- Bonus for potable reuse

Urban Water Use Objective =

Aggregate Residential Indoor Use
+
Aggregate Residential Outdoor Use
+
Aggregate CII Use
+
Aggregate Water Loss
+
Aggregate Variances
+
Bonus Incentive



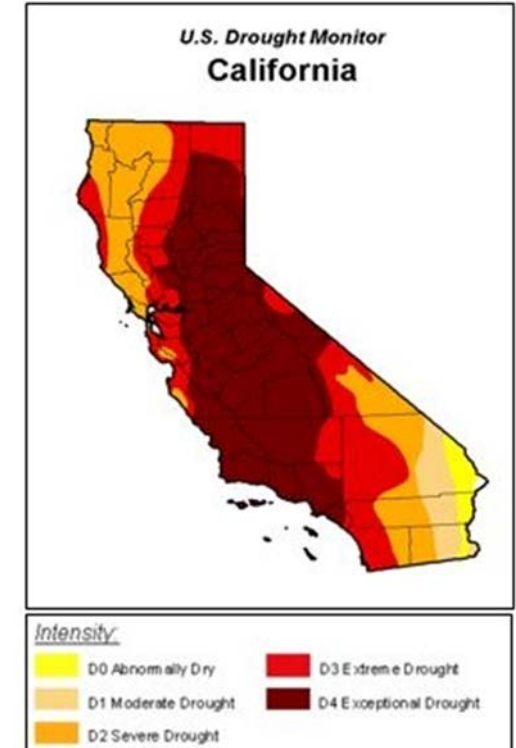
Eliminate Water Waste

- Focus on system water loss
- Includes real loss and apparent loss
- Potential for minimum water loss objective
- Water audit data validity scores (AWWA Software)
- Performance objectives – component analysis



Strengthen Local Drought Resilience

- Encourages water providers to plan for future droughts
- Reporting requirements
 - Water Shortage Contingency Plan
 - Drought Risk Assessment (every five years)
 - Annual Water Supply and Demand Assessment



Improve Agricultural Water Use Efficiency and Drought Planning

- Provides new authorities for increased efficiency and drought planning
- Requires a water-budget based approach
- Agricultural water providers provided a water management objective
- Drought plan required during periods of limited supply



Important Dates

- **January 1, 2021** – DWR reports on studies and investigations
- **June 30, 2022** – SWB adopts water use standards and performance measures and standards for water loss
- **November 1, 2023** – water suppliers calculate water use objectives
- **January 1, 2024** – Water suppliers submit plan on how to achieve water use objective
- **January 1, 2027** – Water suppliers shall achieve their water use objectives



Comprehensive Water Conservation Plan

Plan Elements:

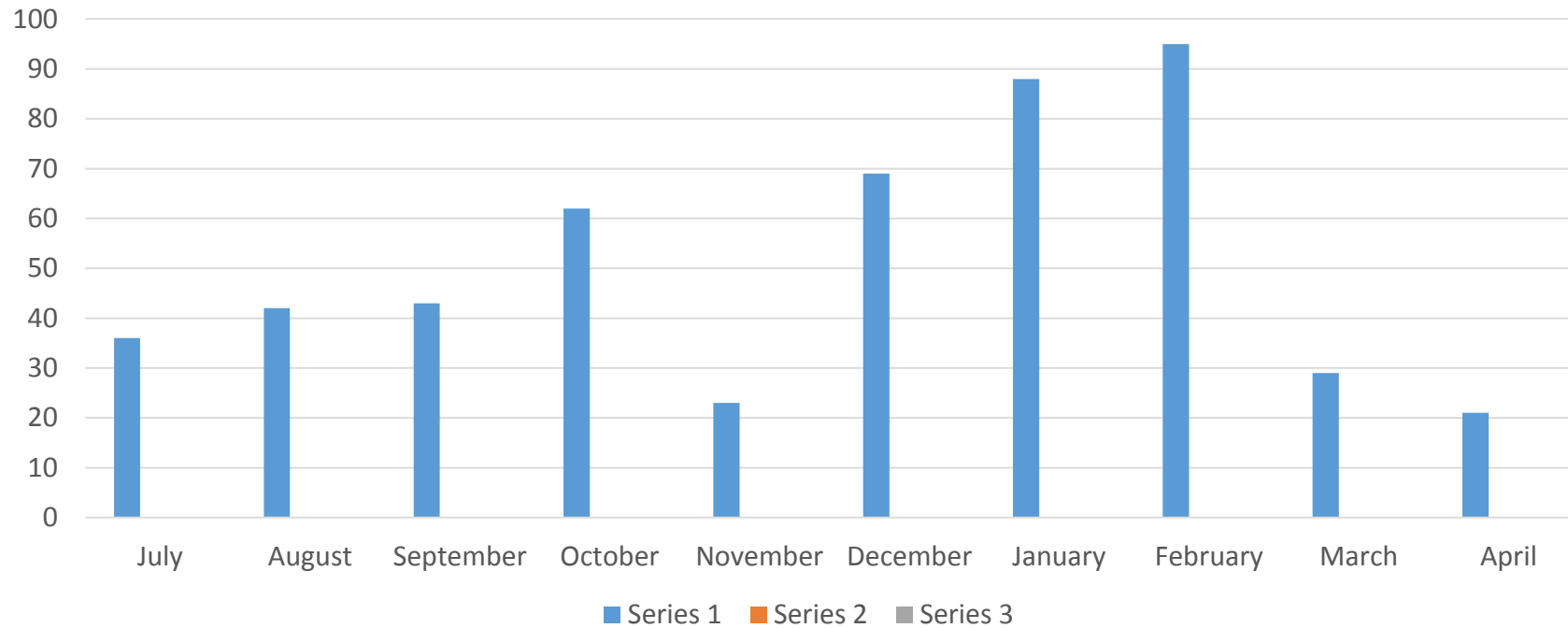
- One-on One Consultations
- Smart Irrigation Controller Program
- Landscape Conversion Initiative
- Rain Barrel Program



Comprehensive Water Conservation Plan

One-on-One Consultations

Customer Service Water Surveys



Comprehensive Water Conservation Plan

One-on-One Consultations

2018 Irrigated Area:

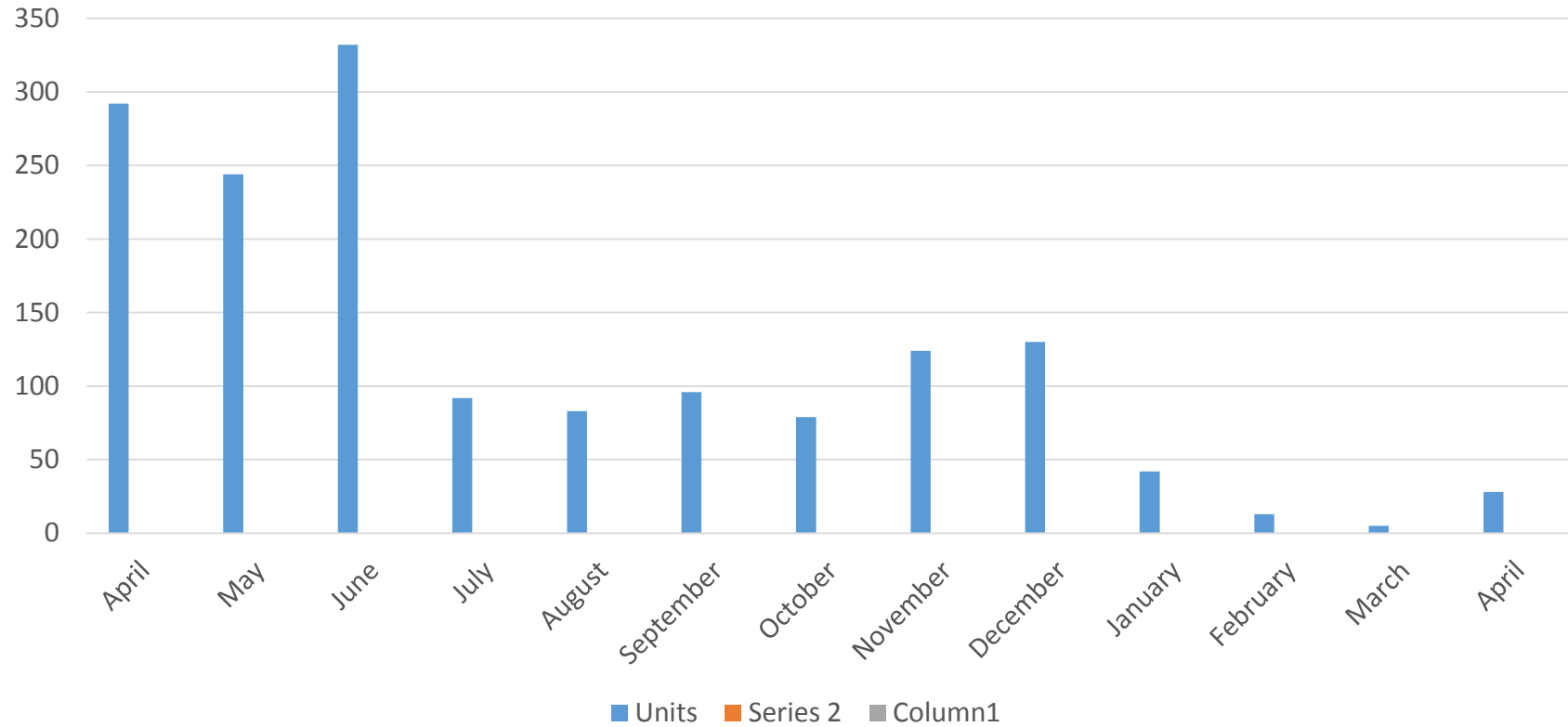
- Total Irrigated Area for 2018 is 3,036.71 Acres
- 18,664 Irrigated Properties in 2018
- 2,697 Residential Properties Edited



Comprehensive Water Conservation Plan

One-on-One Consultations

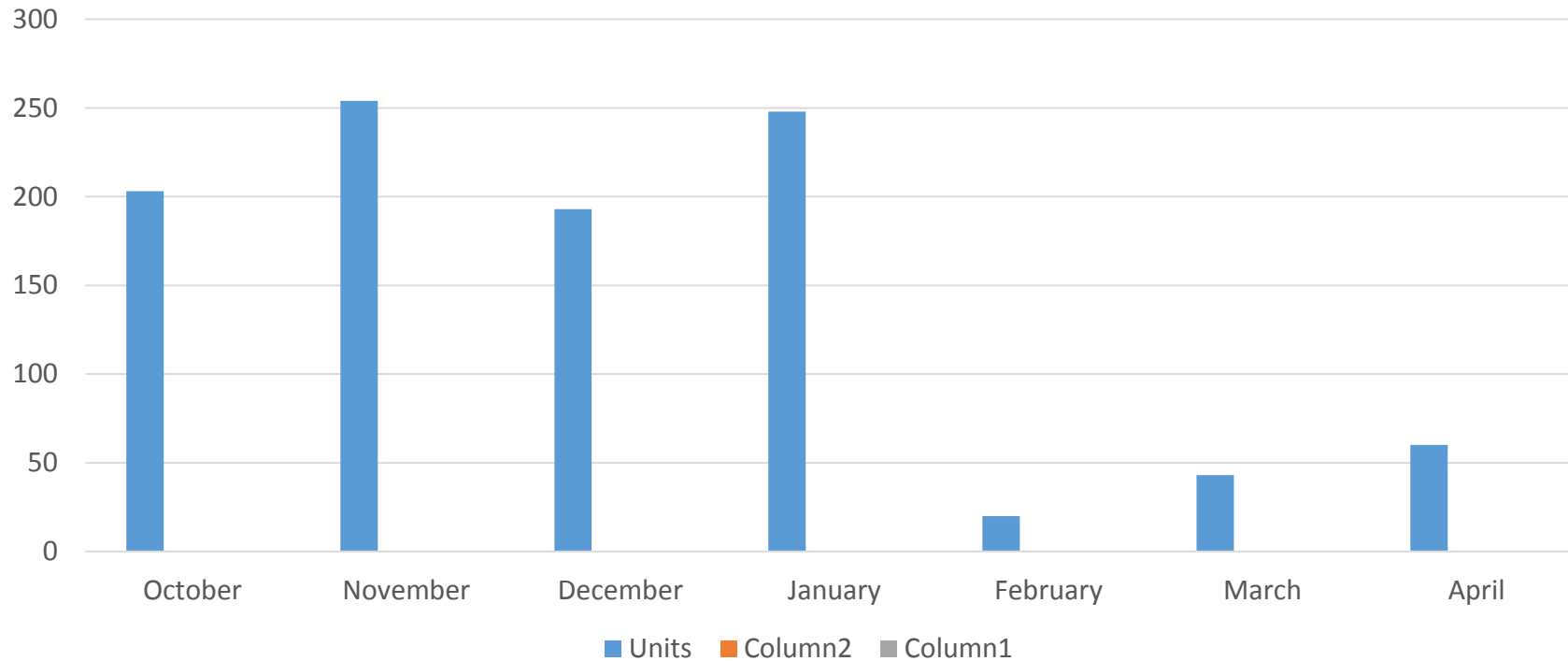
Stokes Canyon



Comprehensive Water Conservation Plan

One-on-One Consultations

The Oaks Calabasas



Comprehensive Water Conservation Plan

One-on-One Consultations

Irrigation Controller Tags:

- Fixed to controller after site visits
- Discourages landscapers from resetting controller
- Encourages customers to take control of their irrigation



Comprehensive Water Conservation Plan

Smart Irrigation Controller Program

- Program has been very well received
- Targeting high water use customers by email
- 336 program controllers installed by end of April
- 81 additional non-program controllers installed

This unit is amazing. I don't have to think about the watering schedule or worry about rainy days. If the days are hotter than normal I can add to the watering from my phone.

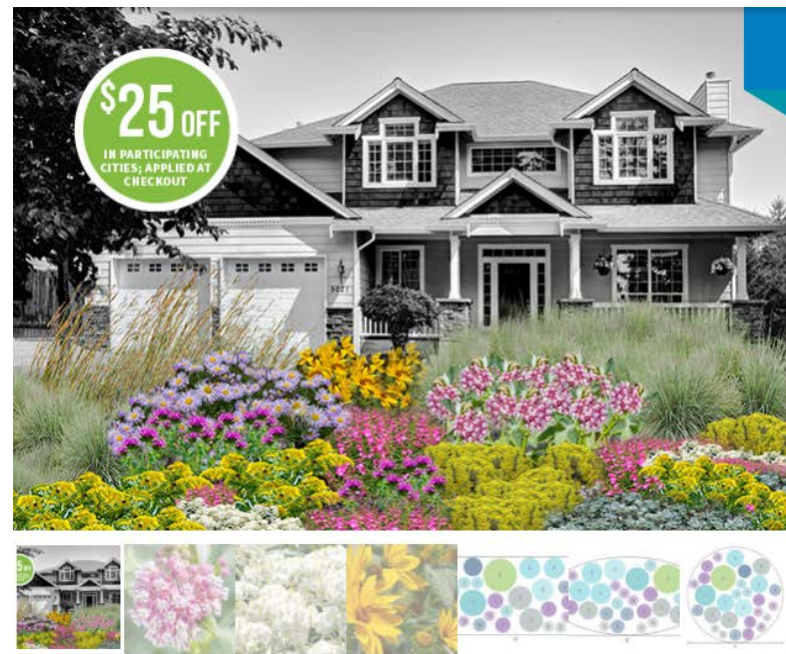
- LVMWD Customer

| Breakdown | | |
|------------------------------------|-----|-----|
| Redeemed | 652 | |
| Checked, but didn't redeem | 99 | |
| Canceled | 46 | |
| Trip Charge / Canceled | 11 | |
| Total Residents (that entered) | 808 | |
| Total Residents (still in program) | 751 | |
| Water type: High | 638 | 85% |
| Water type: Normal | 113 | 15% |
| Zone Type: 8 | 275 | |
| Zone Type: 16 | 294 | |
| Zone Type: 24 | 49 | |
| Zone Type: 32 | 34 | |
| Zone Type: unknown | 0 | |



Comprehensive Water Conservation Plan Landscape Conversion Initiative

- Evaluating other landscape conversion programs
- Ease of implementation, cost, program success
- Partnering with local agencies for program implementation
- Resource Central – “Garden in a Box”
- Potential for funding partnerships and regional efforts
- Work in progress



GARDEN IN A BOX

NATIVE MEADOWS

Designed By: Stephanie Kopplin, City of Fort Collins

~~\$163.00~~ **\$148.00**

Save \$25 in participating cities on select products. Applied at checkout. [Learn more](#)

- **Covers:** 98 sq. ft.
- **Includes:** 29 starter plants in 4-inch pots
- **Exposure:** Full Sun (requires a minimum of 6 hours direct sun per day)

[See more](#)

Order now, pick up gardens in May. [Learn more](#)

In stock

Quantity:

ADD TO CART

DESCRIPTION

Make your yard a regular buzzing hangout for native bees and butterflies with this enticing display of pollinator-friendly perennials! Native Meadows was specifically curated with local pollinators in mind; these native plants feed and play host to numerous varieties of adult and larval stage bees, butterflies and more! Boasting 11 varieties and 29 plants, including Rose Milkweed, Stiff Goldenrod, Maximilian Sunflower and Small-leaf Pussytoes, this 98 square foot garden makes for a stunning habitat mimicking our pollinators' favorite blooming retreats along the Front Range and Foothills.

PRODUCT DETAILS

- **Covers:** 98 sq. ft.
- **Includes:**
 - 29 starter plants with 11 different varieties in 4-inch pots
 - 3 plant by number layout options (7' x 14' rectangle; 8' x 16' oval; and 12' circle)
- **Exposure:** Full Sun (Requires a minimum of 6 hours direct sun per day)
- **Mature Height:** 1 in. to 4 ft.
- **Hardy To:** 6,500 to 10,000 ft.
- **Colorful:** Summer to Fall
- **Benefits:** Locally grown, all native varieties, and pollinator supporting.



DOWNLOAD PDF

Comprehensive Water Conservation Plan

Rain Barrel Program

- Amazing customer response
- Over 600 customers registering for program in first few hours
- Over 300 rain barrels distributed
- Lesson learned – market rain barrel programs when its raining



Conclusions

- District has been able to achieve previous conservation objectives
- District has been ramping up conservation efforts
- New water use objective will require a concerted and sustained effort to achieve
- Based on 2017 water use – 23% reduction in water use would be needed to achieve efficient water use
- In order to achieve water use object, additional conservation efforts might be needed

