Central Florida Water Initiative

Water for Tomorrow

Conservation Team

Conservation Team Overview

Goal:

- Collaboration to continue the effort to advance conservation beyond the estimates established in the RWSP

Objectives:

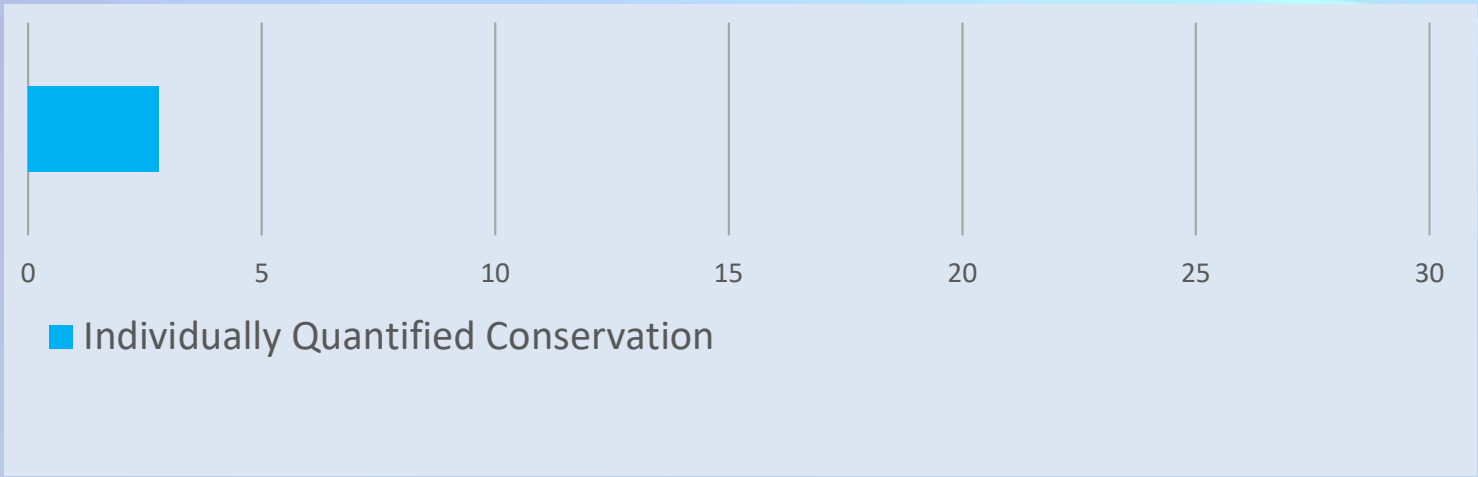
- Develop options for an implementation strategy to achieve greater than the 37 MGD of water savings identified in the 2015 CFWI RWSP.
- Update the water conservation estimates for achievable water conservation, and produce a draft Water Conservation Chapter for the 2020 CFWI RWSP which summarizes the work and analysis of the Conservation Team.

Conservation Implementation Strategy Quantification Efforts

Public Supply –
Individually Quantified Conservation

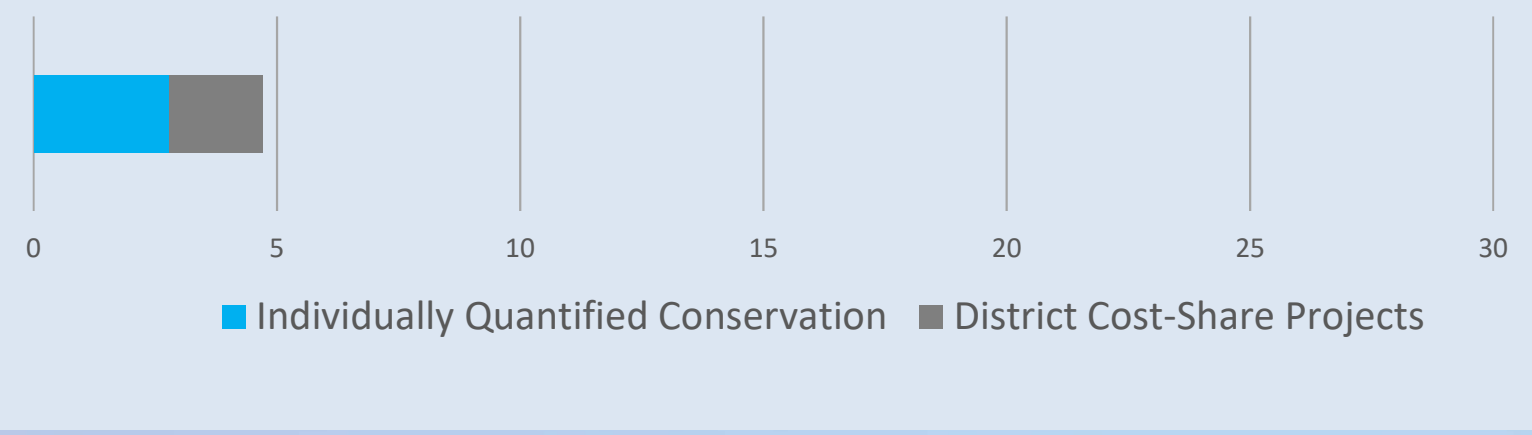
Four quantifiable programmatic savings:

1. The Florida Water Star Rebates or Requirement
2. The Extension Agent/Florida Friendly Program
3. Florida Green Building Coalition (FGBC) Homes
4. Quantified Irrigation Restriction Enforcement



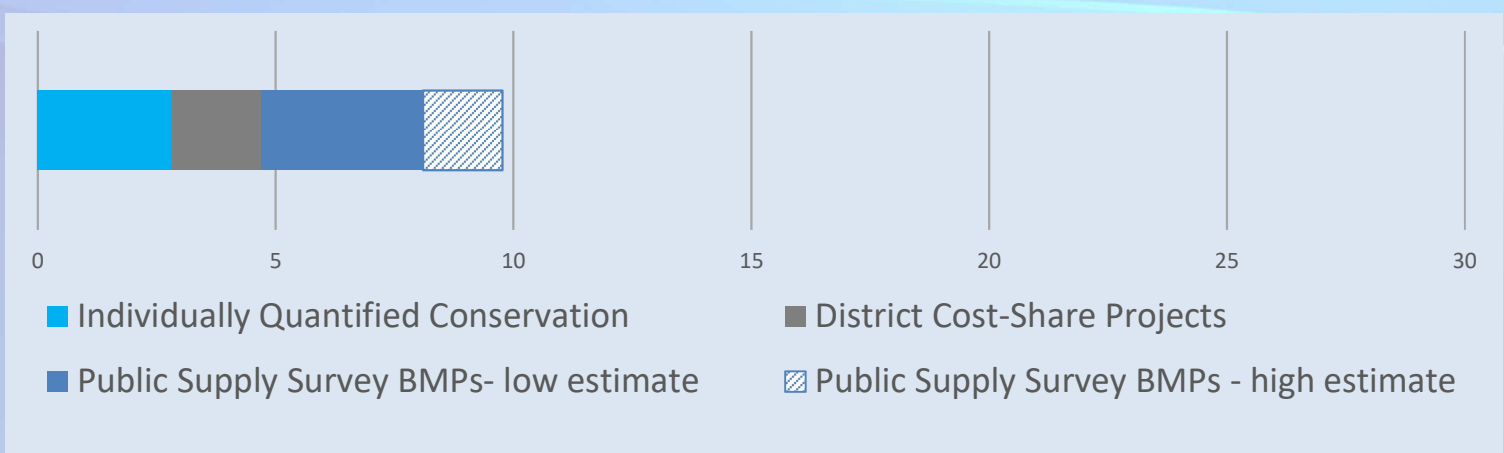
Public Supply –
District Cost-Share

- District cost-share projects were evaluated for the 2010-2018 period.
  - Overlap from survey results were deducted
- In addition to the 10 Quantified BMPs in the 2015 RWSP, the cost share projects also include other measures, such as AMI Implementation, line flushing, conservation software, behavioral programs, etc.

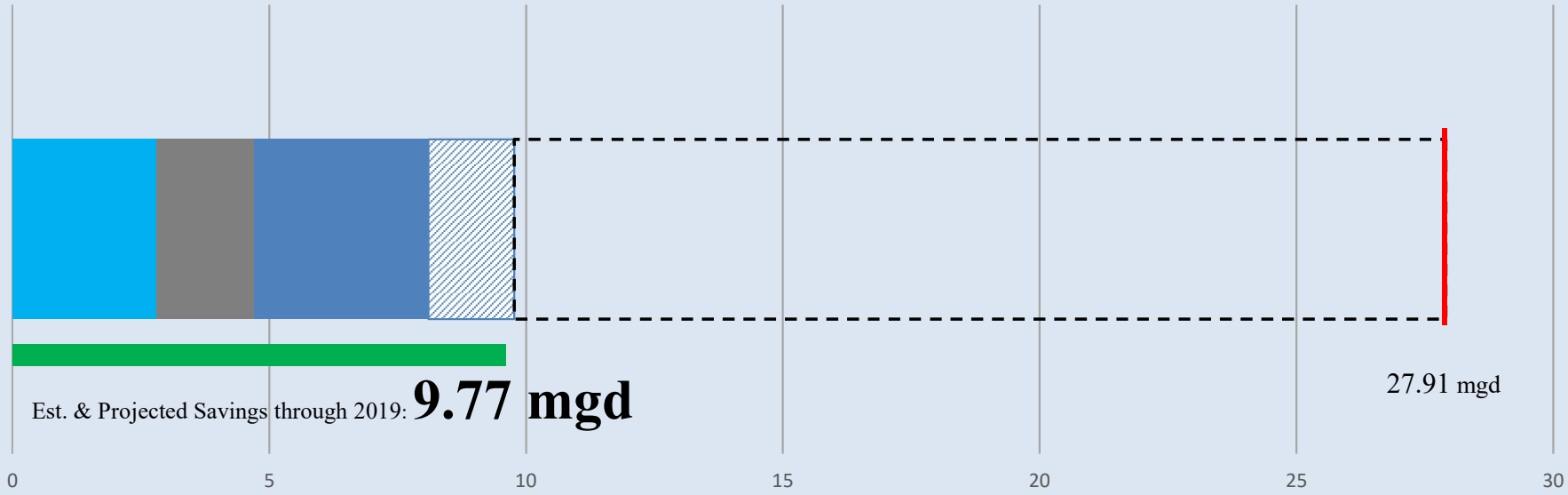


Public Supply –
Survey BMPs

- The 12 utilities responding to the BMP quantification portion of the survey represent 67% of the PS 2035 demands based on projections in the 2015 plan.
  - The estimated savings for only the 12 utilities responding represents the **low** end of the savings range, while the **high** end of the range extrapolates the savings to the entire CFWI region.



Public Supply Total



- Individually Quantified Conservation
- District Cost-Share Projects
- Public Supply Survey BMPs- low estimate
- Public Supply Survey BMPs - high estimate
- Future Conservation Savings Needed to meet Projection

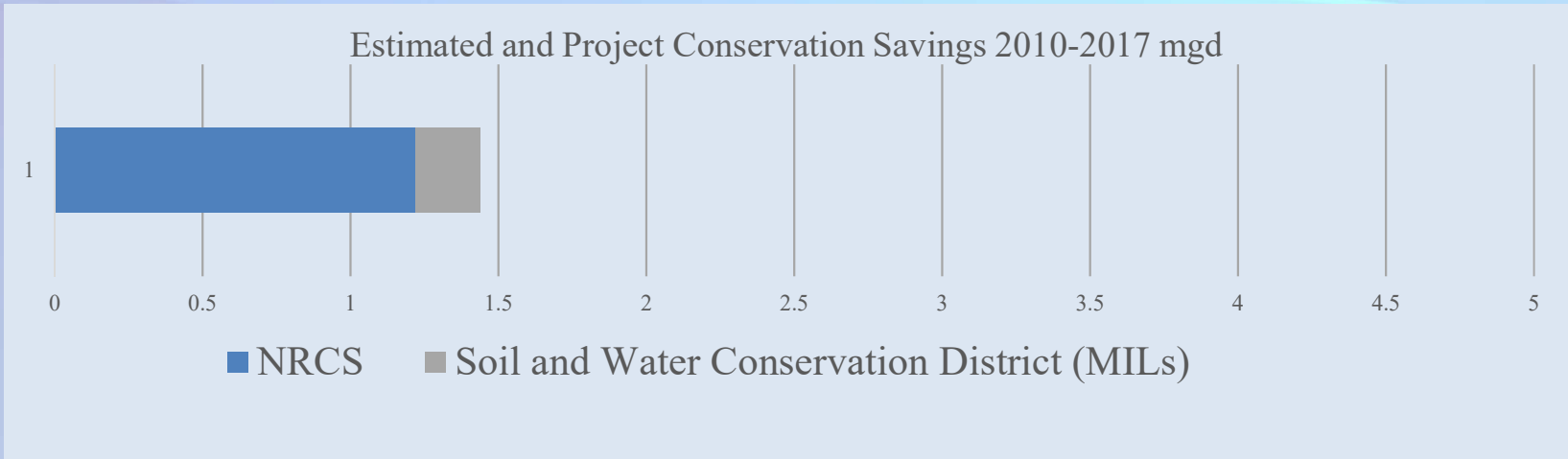
Agriculture Self Supply

USDA NRCS

- Programs that compensate agricultural producers and landowners that voluntarily implement practices that protect soil, water, air, wildlife habitats, and related natural resources.

Soil and Water Conservation Districts

- Mobile Irrigation Labs (MILs) are used to ensure irrigation systems are operating optimally. Verified results are available from FDACS.



Agriculture Self Supply

District Programs:

SWFWMD

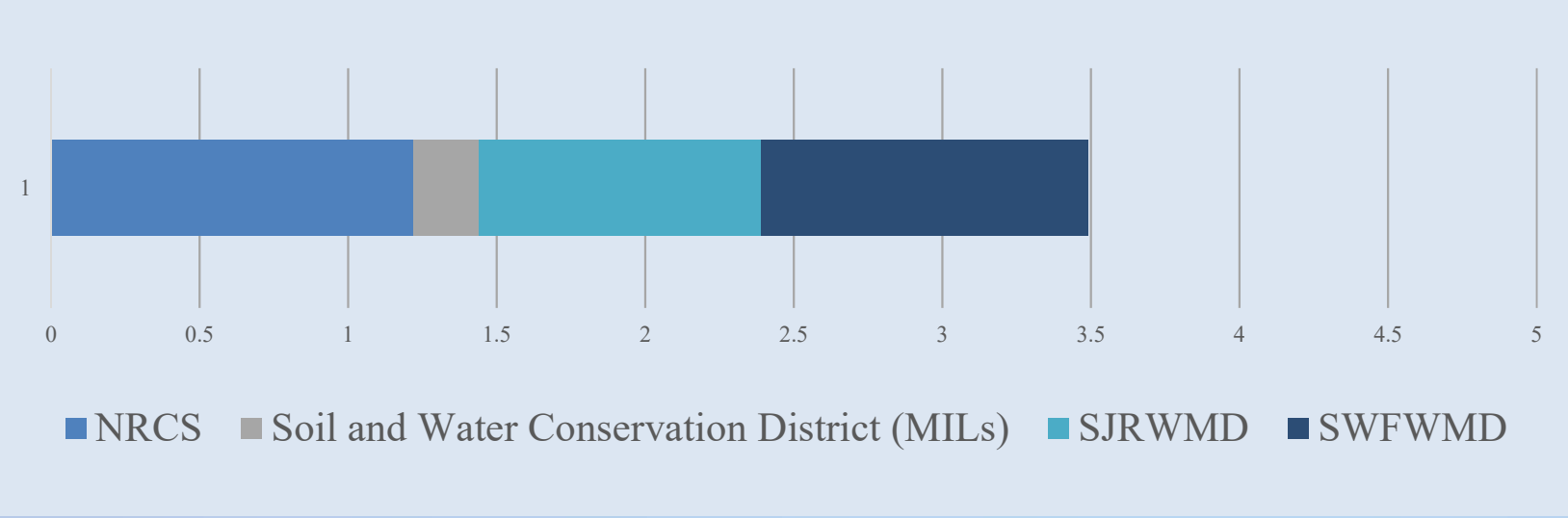
- FARMS Program assists with implementation of BMPs related to reducing groundwater demands from the Upper Floridan aquifer in agricultural areas.

SJRWMD

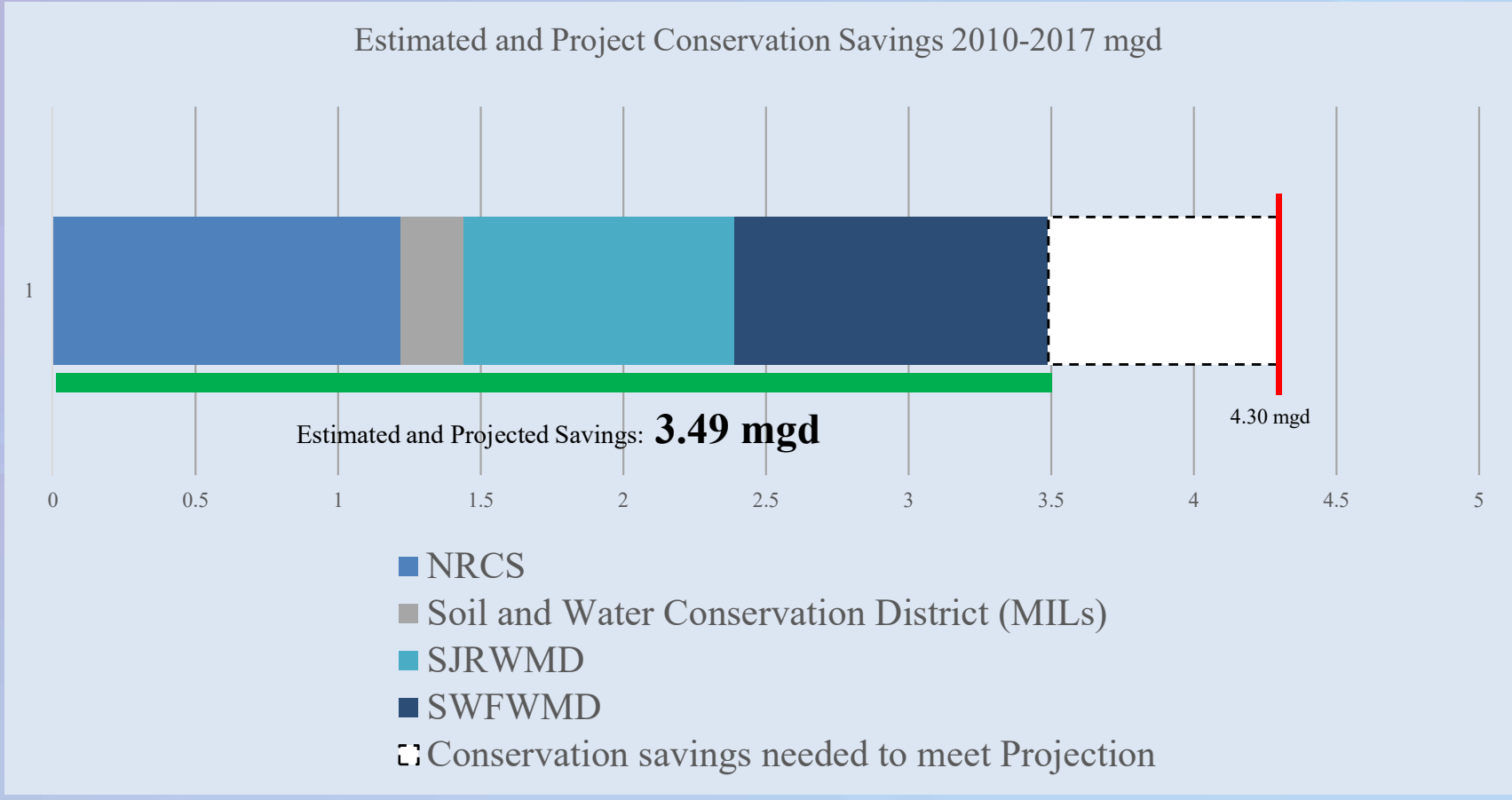
- Agricultural Cost-Share Program focuses on increasing irrigation efficiency through partnership efforts.

SFWMD

- Agricultural producers have not historically taken advantage of SFWMD cost-share opportunities for this region



Agriculture Total



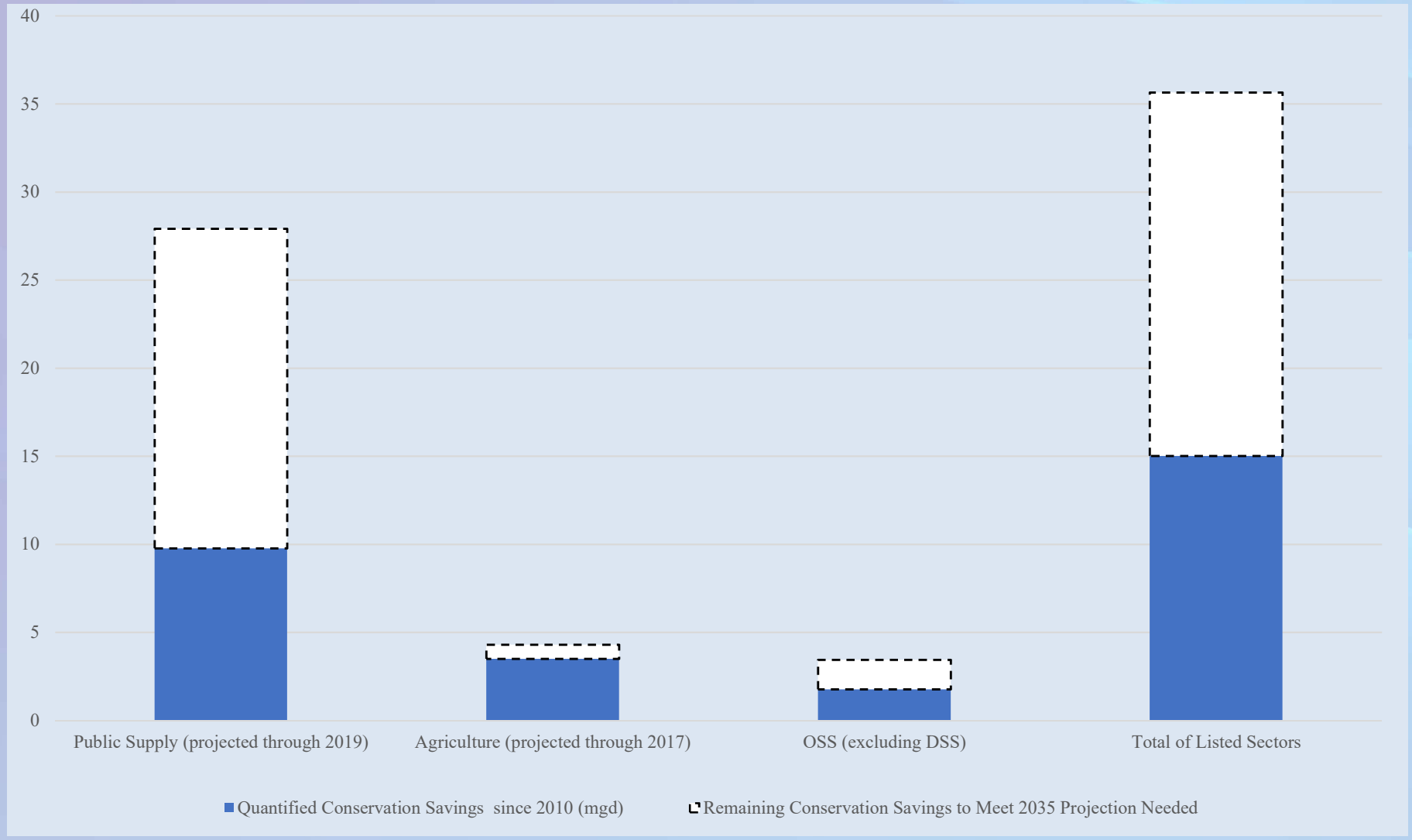
Other Self Supply

- The OSS category shifted from looking at Indoor PS-Type conservation measures to demand specific measures
- Methodology to quantify savings based on a permit-specific review of conservation plans
- OSS has realized 1.3 mgd of the projected savings so far.

Domestic Self Supply

- Water use within this category is expected to increase by approximately 20% from 20.36 mgd in 2010 to 24.42 mgd in 2035.
- The 2015 CFWI RWSP identified 1.19 mgd of water conservation potential for this water use sector.
- Though passive conservation is anticipated, water savings to achieve projected conservation to come from outdoor irrigation restrictions, local ordinances, regional conservation messaging and similar.

Total Quantified Savings by Sector



Next Steps

Goal Topic	Deliverable
Golf course survey	Develop a survey to document conservation efforts being made by Golf Courses
Agriculture White Paper	Review and contribute to a white paper on agricultural BMPs for ultimate review and approval by the Steering Committee
Conservation Outreach and Communication	Designate a Conservation Messaging Liaison to work with the Communications and Outreach Team to develop a white paper about how to message water conservation for various audiences to maximize behavior change.
	Identify funding sources, conservation messaging, and target audiences as well as other outreach opportunities, such as trainings, workshops, etc.
Guideposts	Identify guideposts that can be included in the conservation chapter of the 2020 RWSP
Passive Conservation	Estimate passive conservation savings for the 2020 RWSP.
Project Options	Continue to work with stakeholders to develop designated projects for the 2020 RWSP.
Geographic Target Areas	Further define "geographic target areas," and generate maps to depict the areas

Next Steps continued

Goal Topic	Deliverable
BMP Improvement/Expanded Effort	Develop/finalize savings estimates for new BMPs including: irrigation restriction enforcement, rain sensors, customer portal/AMI, and irrigation system audits. Identify additional BMPs with goal to increase rate of implementation.
Cost-Share Participation Review	Future iterations of this implementation strategy shall undertake a review of cost-share applications in each district, evaluate which eligible users are utilizing cost-share programs for conservation and identify how additional eligible applicants can be encouraged to apply for cost-share funding to implement larger conservation efforts.
Data Source Improvement	Improve data collection and analysis.

2020 CFWI Conservation Projections

Water Demand Category	Projected 2040 Demand (mgd)	Projected 2040 Conservation Savings Estimate (mgd)
Public Supply	592.28	41.50 – 44.16
Domestic Self-Supply (DSS)	24.59	0.86
Agriculture	163.49	4.19
Landscape/Recreational	49.27	2.22
Commercial/Industrial/Institutional	69.00	1.55 - 4.40
Power Generation	11.27	
Total	**909.9**	**50.32 – 55.83**

Questions?