

2020 CFWI Public Supply Conservation Planning Subteam - Final Scope of Work

Subteam Co-Leaders:

Christine Russell, OUC

Mike Sweeney, Toho

Subteam Goals: Develop an implementation strategy to achieve greater than the 27.9 mgd for public supply ~~as~~ identified in the 2015 CFWI RWSP Vol. II ~~and continue the effort to advance conservation beyond these estimates.~~ (See Conservation Team Objective)

Subteam Approach: The public supply subteam of the 2020 CFWI RWSP Conservation Planning Team will consist of utility, water management district, and DACS representatives who will work independently to develop planning strategies and options which will be presented to the larger conservation team for consideration. The larger conservation team, consisting of members from FDEP, the Water Management Districts, environmental groups, and the subteam leads, will offer input and guidance to the subteam leaders. The subteam leaders will provide an update of subteam activities and progress at each meeting of the larger conservation team.

Subteam Scope of Work:

1. Develop an implementation strategy to achieve greater than the 27.9 mgd for public supply by 2035 as identified in the 2015 CFWI RWSP. (See Conservation Team Task 1)
 - Identify and assess the status of BMPs since 2010, as well as the remaining savings potential for BMPs to be implemented. Conduct an assessment of the existing status of the implementation of BMPs identified in the 2015 CFWI RWSP, and evaluate the remaining potential for BMP implementation. Information will be gathered from utilities, agency funding programs, existing water conservation related databases, etc. (See Conservation Team Task 1.a)
 - Identify ongoing funding programs that support additional BMP implementation, and develop options for increasing participation in the existing funding programs. Information will be gathered from utilities, agency funding programs, etc. (See Conservation Team Task 1.b)
 - Identify geographic priority target areas for selected BMPs where the greatest savings, and water resource benefits, where applicable, are likely to be achieved. Develop options and costs for achieving the savings. (See Conservation Team Task 1.c)
2. Expand evaluation of conservation potential beyond 27.9 mgd by including consideration of BMPs that were not evaluated previously with the conservation water savings tools. Check existing conservation modeling tools for any BMPs that have been updated or added since the last estimates were completed. Review list of conservation BMPs and prioritize by anticipated level of savings effectiveness and estimated cost efficiency. Apply measurement and verification protocols to directly quantify impacts of any BMPs that are high on the priority list and are currently in practice in the CFWI, but have not been quantified using the current modeling tools. Develop costs for the new BMPs. (See Conservation Team Task 1.a)
3. Evaluate conservation measures which were included in the conservation modeling tools but exceeded the assumed \$3.00 per 1,000 gallons limitation and assess whether these conservation measures may be cost-effective for some CFWI utilities to implement

based on the cost of their next increment of water. If deemed to be cost effective for some utilities, estimate a savings potential for these measures. Explore other cost metrics which better tie to a utility's cost for their next increment of water. Describe process for performing cost benefit analyses for conservation measures including determining incentives such as rebates and discounts. Use this process on any of the new BMPs developed in scope item #2. [\(See Conservation Team Task 1.a\)](#)

4. [Explore using the data derived from H2OSAV in the development of the implementation strategy and the RWSP Update. Share information from the work with stakeholders and the Steering Committee. Develop options to include in a funding proposal to continue development and support of a statewide clearinghouse as a repository for PS conservation data, publications, and goal-based planning tools to optimize future conservation programs and promote consistency. Investigate the status of U of F Conserve Florida Water Clearinghouse as a first step.](#) [\(See Conservation Team Task 5\)](#)

~~5. Participate in amending Florida Building and Plumbing codes and Florida Statutes.~~

~~○ Participate in the Florida Building/Plumbing Code modification process to improve water conservation statewide by evaluating the current code provisions affecting water conservation and identify potential amendments to improve water conservation including:~~

- ~~▪ Efficient landscape and irrigation technology (i.e. Florida Water Star outdoor provisions) for all new construction (approved design by licensed irrigation professionals)~~
- ~~▪ High efficiency indoor water use standards for all new construction~~
- ~~▪ Expansion of current homeowner protection from homeowner association landscaping covenants~~

~~6.5. Develop options for expanding the use of advanced/ SMART meters and associated data management (hardware and software) by water utilities, to allow utilities and their customers to understand their water use practices and target more effective conservation BMPs. As a starting point, develop a list of the utilities within the CFWI currently using smart meters and quantify the number of smart meters currently being used in each system and list ways the data is being or planned to be used (beyond billing) for conservation purposes. If the technology is being used by utilities as a conservation practice, develop a process in order to quantify the water savings.~~ [\(See Conservation Team Task 6\)](#)

~~7.6. Develop options for testing and promoting the use of SMART irrigation technology to improve landscape irrigation efficiency. As a starting point, develop a list of CFWI utilities that have programs using smart irrigation technology and quantify the number and type of units already in-use. Provide support to the regulatory subteam addressing SMART irrigation controller technology.~~ [\(See Conservation Team Task 6\)](#)

~~8.7. Support and provide input and technical information to the Communications & Outreach team for developing a comprehensive public education and outreach program for~~

promoting water conservation to residential and commercial users. [*\(See Conservation Team Task 3\)*](#)

9.8. Update and revise conservation savings and cost estimates and the timing schedule developed during the 2015 RWSP for the MOC who will be addressing CFWI funding. Include costs for conservation projects/BMPS and other non-BMP conservation related items such as the Clearinghouse, Public Education, etc. Produce a public supply sub-chapter to be included in the draft water conservation chapter of the 2020 CFWI RWSP. [*\(See Conservation Team Task 7\)*](#)