

Central Florida Water Initiative

Water for Tomorrow



Conservation Team

Proposed 2020 Methodology

Public Supply

Passive Conservation – *17.93 mgd*

- Passive Conservation was calculated using the AWE Tool
 - 2 components:
 - **Natural Replacement Savings (12.89)**
 - Known utility rebate programs for BMPs were deducted
 - Savings per Device was reconciled with EZ Guide savings used in Implementation Strategy
 - **Water Savings Adjustment Factor (5.04)**



Passive Conservation – *Adjustments*

- The AWE Tool uses county level data which results in overlap between DSS and PS
 - If reduced proportionately to 2040 population, the PS passive savings would be:
 - **Natural Replacement Savings (12.28)**
 - **Water Savings Adjustment Factor (4.79)**



Methodology Sources Considered

- Per Capita
- AWE Tool
- Implementation Strategy (IS)
 - Pace
 - Pace + Population Growth
 - Pace + Water Demand Growth



Methodology Sources Eliminated

- ~~Per Capita~~

- User specificity

- ~~AWE Tool~~

- Time constraints

- Implementation Strategy

- Pace

- ~~Pace + Population Growth~~

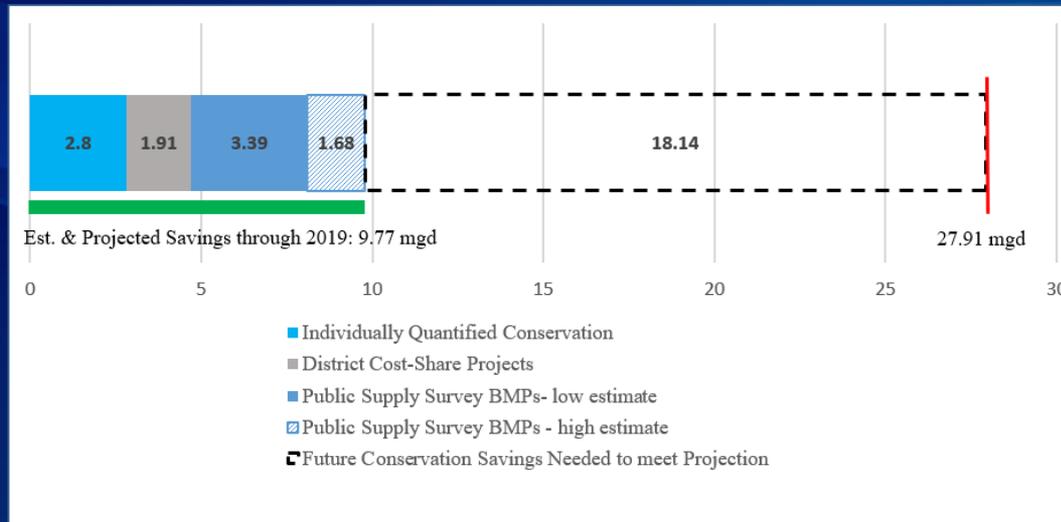
- Sources showed Water Demand Growth was a more applicable measure

- Pace + Water Demand Growth



Implementation Strategy

- Currently, the IS has the following estimated quantified conservation savings included:
 - Low Range estimates 8.10 mgd over 10 years
 - High Range estimates 9.77 mgd over 10 years



Hybrid Range – 24.45-27.09 mgd

- Low derived from extrapolated (“high”) of Implementation Strategy (IS)
 - “Low” estimate considered but not recommended for the projection in order to account for all CFWI utilities and unquantified BMPs.
- High derived from Implementation Strategy + Water Demand Multiplier – Adjustment Factor
 - Water Demand Multiplier consists of average realized demand growth over 5 year increments
 - Minus Water Savings Adjustment Factor that is captured in Passive Conservation

| Cumulative Years | 2015-2020 | 2015-2025 | 2015-2030 | 2015-2035 | 2015-2040 | Adjustment | Total |
|--|--------------|---------------|---------------|---------------|---------------|------------|-------|
| MGD saved over 5 years (using “low” Quantified Conservation from IS) | 4.885 | 4.885 | 4.885 | 4.885 | 4.885 | N/A | 24.45 |
| Ave. Demand Growth | 7.45% | 21.24% | 32.43% | 41.68% | 49.77% | N/A | |
| MGD saved over 5 years (using “high” Quantified Conservation from IS) | 5.25 | 5.92 | 6.47 | 6.92 | 7.32 | -4.79 | 27.09 |

Active Conservation Projection - Overview

| Plan Year | RWSP Demand (mgd) | Projected PS Conservation (mgd) | | Percentage of Demand | |
|-----------|----------------------|------------------------------------|-------|----------------------|-------|
| | | Low | High | Low | High |
| 2015 | 654.34 | 27.91 | | 4.27% | |
| 2020 | 592.28 | 24.45 | 27.09 | 4.13% | 4.53% |

