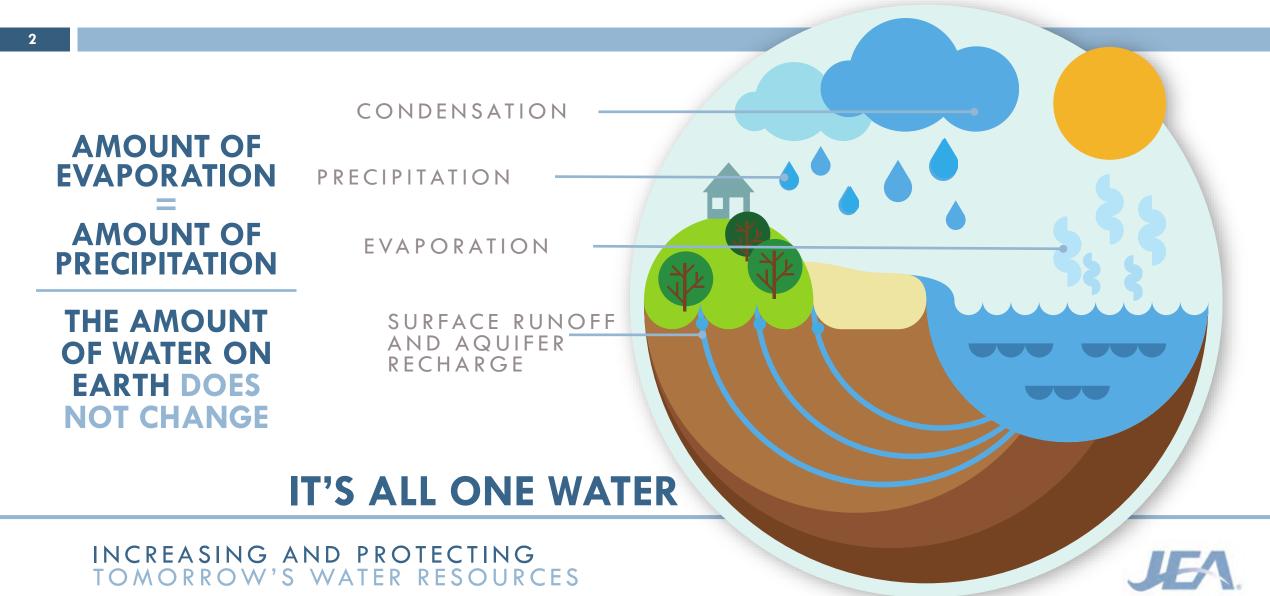


INCREASING AND PROTECTING TOMORROW'S WATER RESOURCES

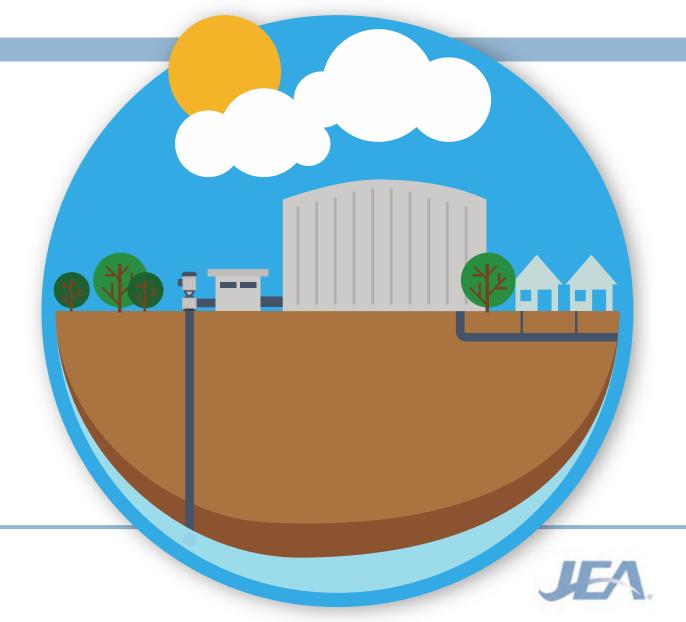
The Basics: Earth's Water Cycle



FLORIDAN AQUIFER

PRESENTLY SOURCE OF ALL JEA-SUPPLIED DRINKING WATER

OUR BEST AND MOST COST-EFFECTIVE SOURCE



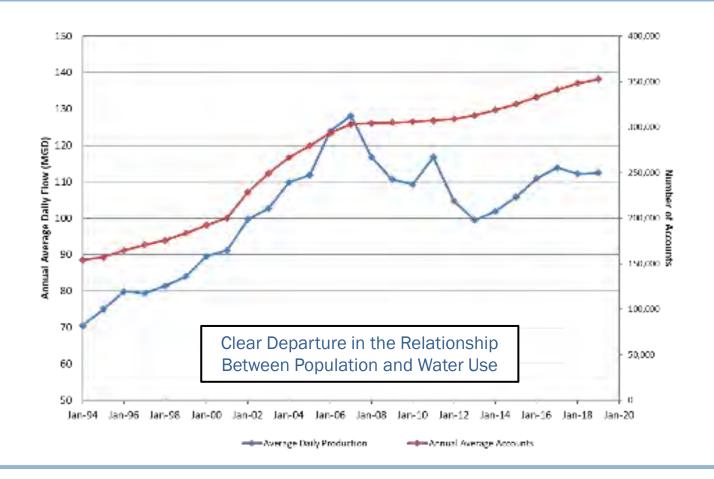
INCREASING AND PROTECTING TOMORROW'S WATER RESOURCES

Water Use Is More Efficient

CHANGE OF HOUSING STOCK

UTILITY EFFORTS:

- TIERED RATES
- PUBLIC MESSAGING/ CONSERVATION EFFORTS
- CONTINUED EXPANSION OF RECLAIMED SYSTEMS IN AREAS OF GROWTH





The Challenge Ahead

FLORIDAN AQUIFER IS APPROACHING SUSTAINABLE WITHDRAWAL LIMIT

POPULATION IS GROWING, AVAILABLE WATER SUPPLY IS LIMITED

PROTECT THE WATER RESOURCES OF THE REGION

CONSERVATION ALONE WILL NOT ENSURE A SUSTAINABLE WATER SUPPLY IN THE FUTURE

U.S. AVERAGE IS 100 GALLONS PER DAY

JEA AVERAGE IS 80 GALLONS PER DAY







Possible Solutions

JEA is Expanding efforts to explore possible solutions:

Purified Water is one cost competitive option to meet future water demands





Purification Technology Safe and Reliable

ESTABLISHED TREATMENT METHODS

INTERNATIONAL SPACE STATION UTILIZES SIMILAR TECHNOLOGY





Implemented Throughout The United States

PURIFICATION FAR EXCEEDS DRINKING WATER STANDARDS ESTABLISHED BY THE E

- Full Scale Implemented Facilities
- Projects in R&D, Planning or Demonstration





Our Purification Program Has Started

PAST

PRESENT

FUTURE

R&D TESTING

- Began 2017
- Completed 2019

IMPLEMENTATION

- Immersive Public Engagement
- Performance Demonstration
- Expansion as Needed

INNOVATIVE TECHNOLOGY COST SHARE FUNDING IN PARTNERSHIP WITH THE ST JOHNS RIVER WATER MANAGEMENT DISTRICT





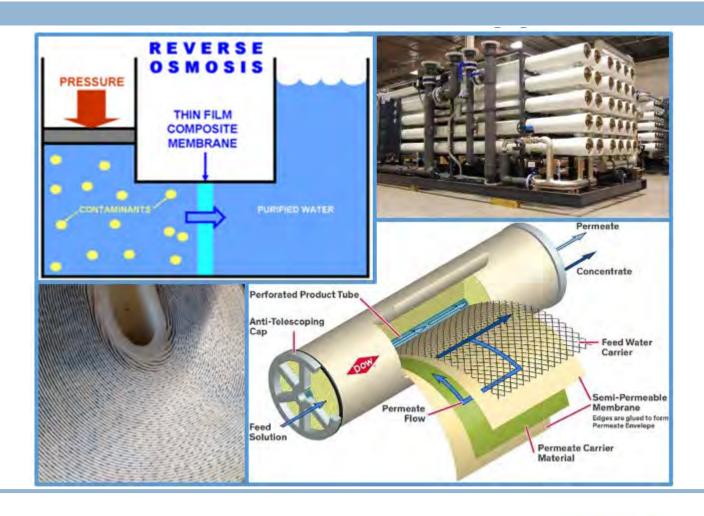
Multi-Barrier Treatment Approach

FILTERS MOLECULES

ENSURES SAFETY

PRODUCES PURE WATER

MINERALS ADDED FOR TASTE





Next Steps

EXTENSIVE PUBLIC EDUCATION AND OUTREACH

FULLY EXPANDABLE COMMERCIAL SCALE DEMONSTRATION FACILITY



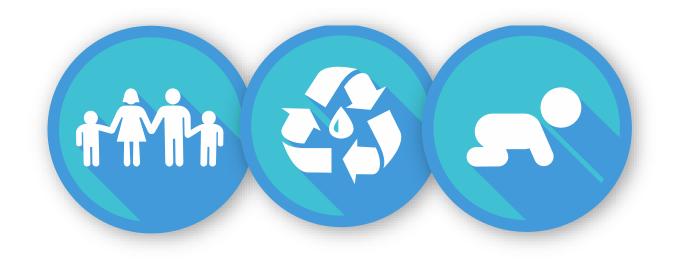


In The End, We All Win

A SUSTAINABLE WATER SOURCE FOR FUTURE GENERATIONS

WATER WE NOW DISCARD WILL BE REUSED

THE NEEDS OF AN EXPANDING POPULATION AND ECONOMY WILL BE MET







- **✓ SAFE**
- **✓ RELIABLE**
- **✓ SUSTAINABLE**
- ✓ DROUGHT-PROOF
- ✓ ENVIRONMENTALLY RESPONSIBLE
- ✓ COST EFFECTIVE
- **✓ LOCALLY CONTROLLED**

