



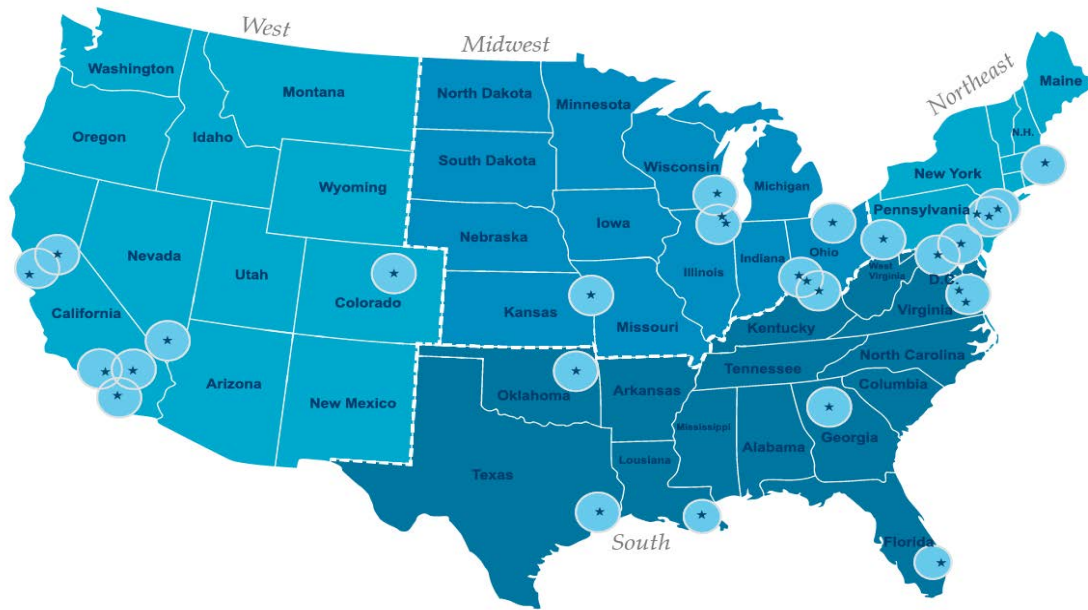
National Economic & Labor Impacts of the Water Utility Sector (WRF #4566)

advancing the science of water

Research Objective and Plan

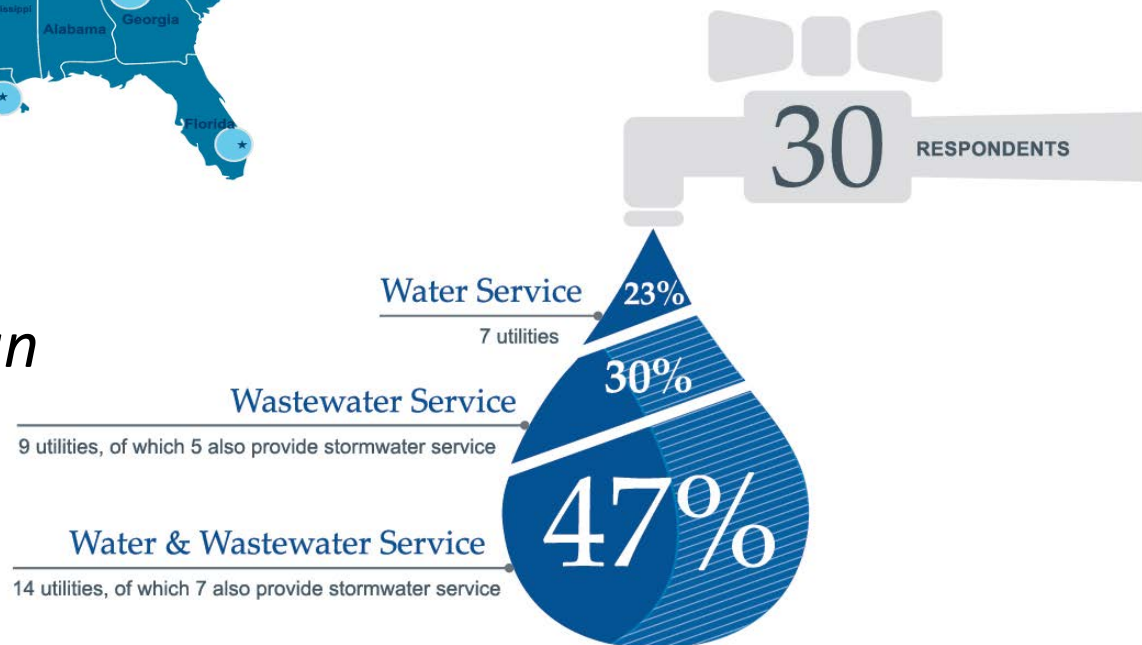
- Objective - To Determine the Economic and Labor Impacts that Utilities have on the Local and National Economy
- 30 water, wastewater, and stormwater utilities across the U.S. participated in this study
- The utilities were surveyed regarding their current and projected operating budgets, capital plans, and labor practices over the next ten years

30 Study Participants



“Utilities from nine of the top ten largest metro areas in the country”

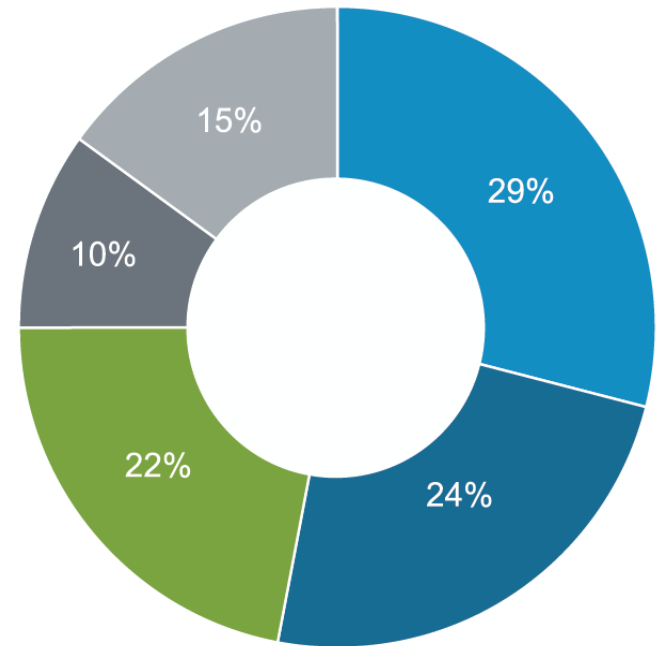
“The utilities serve 83 million people, more than 25% of the total U.S. population”



Operating Budget Impacts

- 2014 Spending
 - >\$400 million per utility
 - ~\$12 billion total
- Aggregate 10 year spending projections
 - ~\$145 billion
- Economic Output over 10 years
 - \$299 billion
 - will sustain 157,000 jobs each year for the next 10 years

Allocation of Operating Expenditures

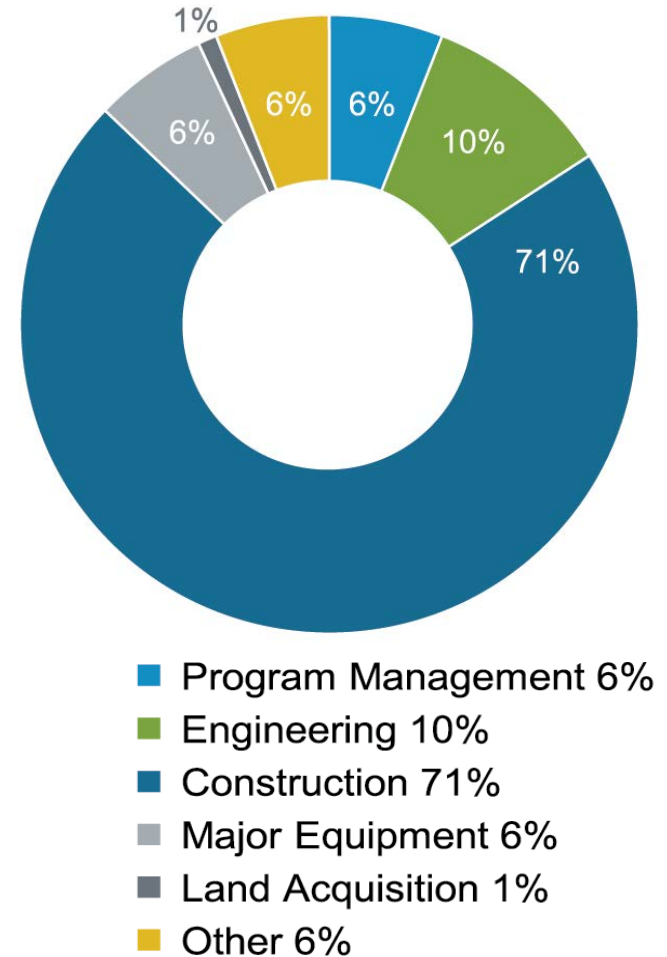


- Utility Staff 29%
- Contracts 24%
- Debt Payments 22%
- Water Imports 10%
- Other 15%

Capital Plan Impacts

- 2014 Spending
 - >\$333 million per utility
 - ~\$10 billion total
- Aggregate 10 year spending projections
 - ~\$88 billion
- Economic Output over 10 year
 - \$225 billion
 - will sustain 131,000 jobs each year for the next 10 years

Allocation of Capital Plan Investments



Total Economic Impact

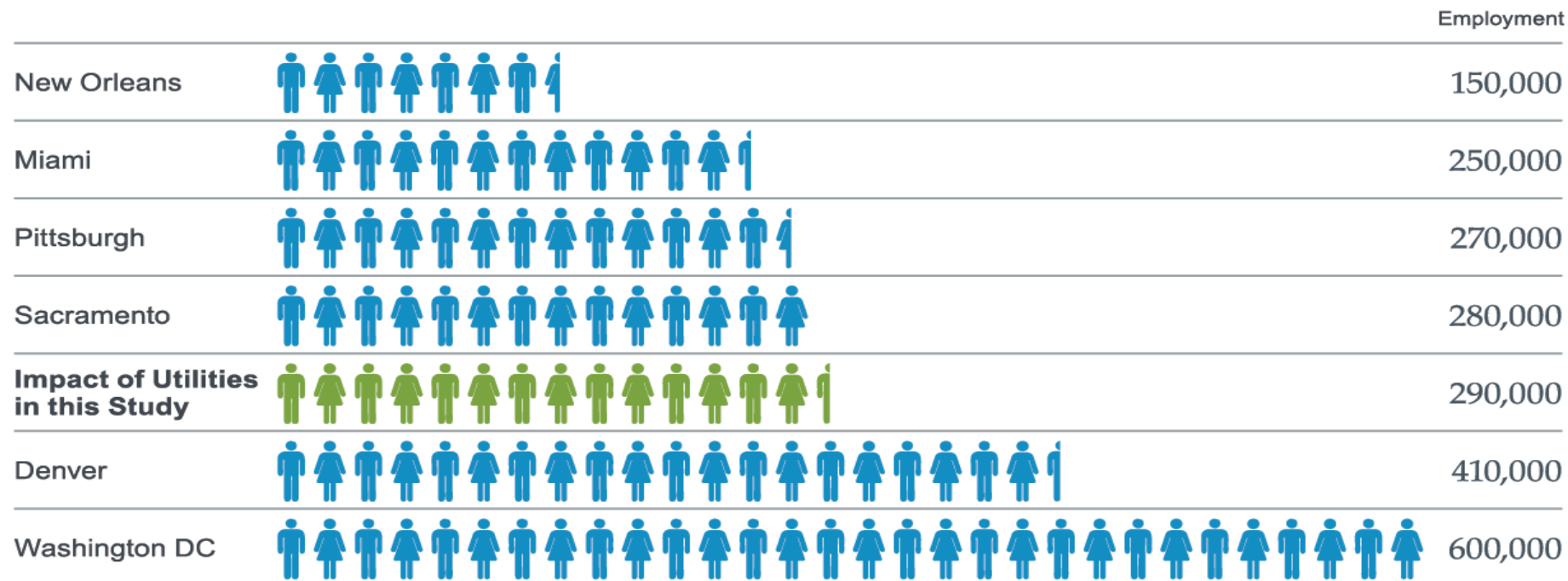
- \$23 billion per year in Direct Spending for Operations and Capital Expenditures
- \$52 billion per year in Economic Output = *\$524 Billion over the next 10 years*
- The combined economic contribution by the 30 utilities in this study exceeds the gross regional product of metropolitan regions such as
 - Chattanooga, Tennessee
 - Springfield, Massachusetts
 - Huntsville, Alabama
 - Santa Barbara, California



Total Jobs Impact

289,000 permanent jobs per year =
2.9 million job years over the next 10 years

Total Employment Contribution of Utilities in this Study Compared to Total Employment of U.S. Cities



 = 20,000 full-time employees

Supporting Jobs

- Every \$1 million in direct spending by the utilities in this study supports 16 jobs throughout all sectors of the economy
- Similar job impacts as compared to investments in clean energy, transportation, and health care

Ripple Effect of Water Investment (every \$1 million in direct spending by water utilities supports 16 jobs nationwide)

$$\begin{array}{ccccccc} \$1\text{M} & = & 5 \text{ Jobs} & + & 11 \text{ Jobs} & = & 16 \text{ Jobs} \\ \text{Investment} & & \text{Direct Impact} & & \text{Indirect \& Induced Impact} & & \text{Total} \end{array}$$

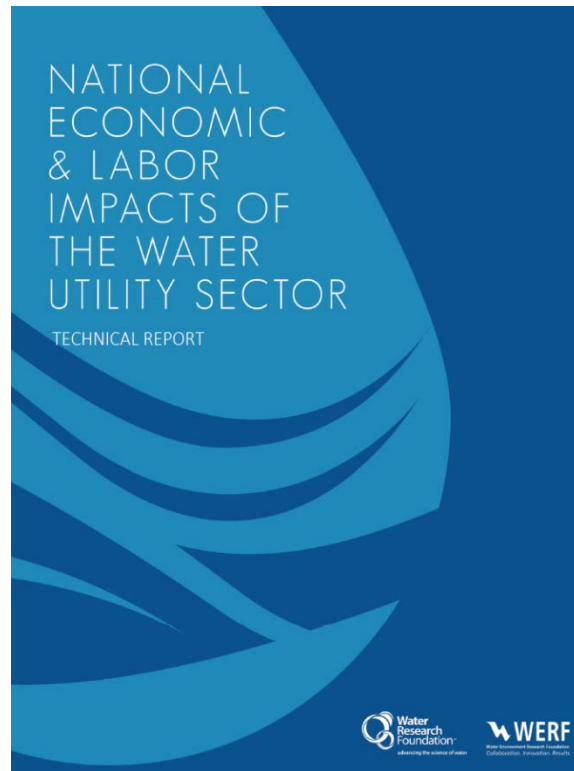
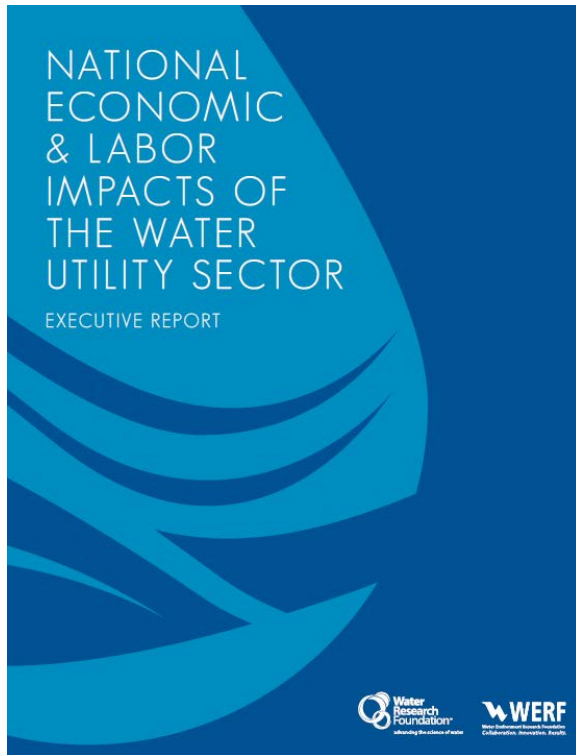


Future Workforce Needs

- Median water sector employee is 48 years old—six years senior to the national median employee age of 42 (Bureau of Labor Statistics)
- Over 30% of employees are currently eligible for retirement (WRF #4566)
- 37 percent of water utility workers and 31 percent of wastewater utility workers will retire over the next decade (WRF #4206)



Available Resources



Economic Impact of Public Water, Wastewater, and Stormwater Utilities across the United States

Economic Impact = 289,000 jobs and \$524 billion over ten years

The 30 utilities in this study were surveyed regarding their operating and capital plan investments for the next decade. They represent one-third of all large U.S. water utilities, directly employing 36,500 workers. Their combined economic contribution totals \$524 billion over the next decade, supporting 289,000 jobs per year across the country.



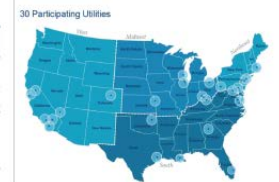
Participating utilities provide water, wastewater, and stormwater services to 83 million people over a combined service area of 18,300 square miles.

Services Provided:	Service Population: Million	Service Area: Square Miles	Flow & Capacity:			
			Average Daily Flow	Capacity	Treatment Plant Capacity	
Water, Wastewater & Stormwater	83 (25% of the U.S. Population)	18,300 (Less than 1% of the U.S.)	Flow			
			Water	8,500 mgd	11,100 mgd	11,300 mgd
			Wastewater	5,700 mgd	8,400 mgd	11,000 mgd

mgd = millions of gallons per day

Economic Impact of Operating & Capital Expenditures

	Aggregate Impact (Over 10 Years)	Annual Impact (Per Year)
Employment	2.9 million job-years	289,000 jobs
Operations	1.6 million job-years	157,000 jobs
Capital	1.3 million job-years	131,000 jobs
Economic Output	\$524 billion	\$52 billion
Operations	\$299 billion	\$30 billion
Capital	\$225 billion	\$22 billion



Impacts are expressed in real 2014 dollars, values may not total due to rounding.

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Thank You

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advancing the science of water