

Water and Wastewater Infrastructure Needs (2015) Update



IACIR/OCRA Report

- 20 year and annual needs
- Five categories of infrastructure
 - Combined sewer overflow
 - Wastewater conveyance and treatment
 - Septic system remediation
 - Stormwater conveyance and management
 - Drinking water production, treatment, and distribution
- Reported in \$Millions (M) and \$Billions (B)
- Statewide and by county

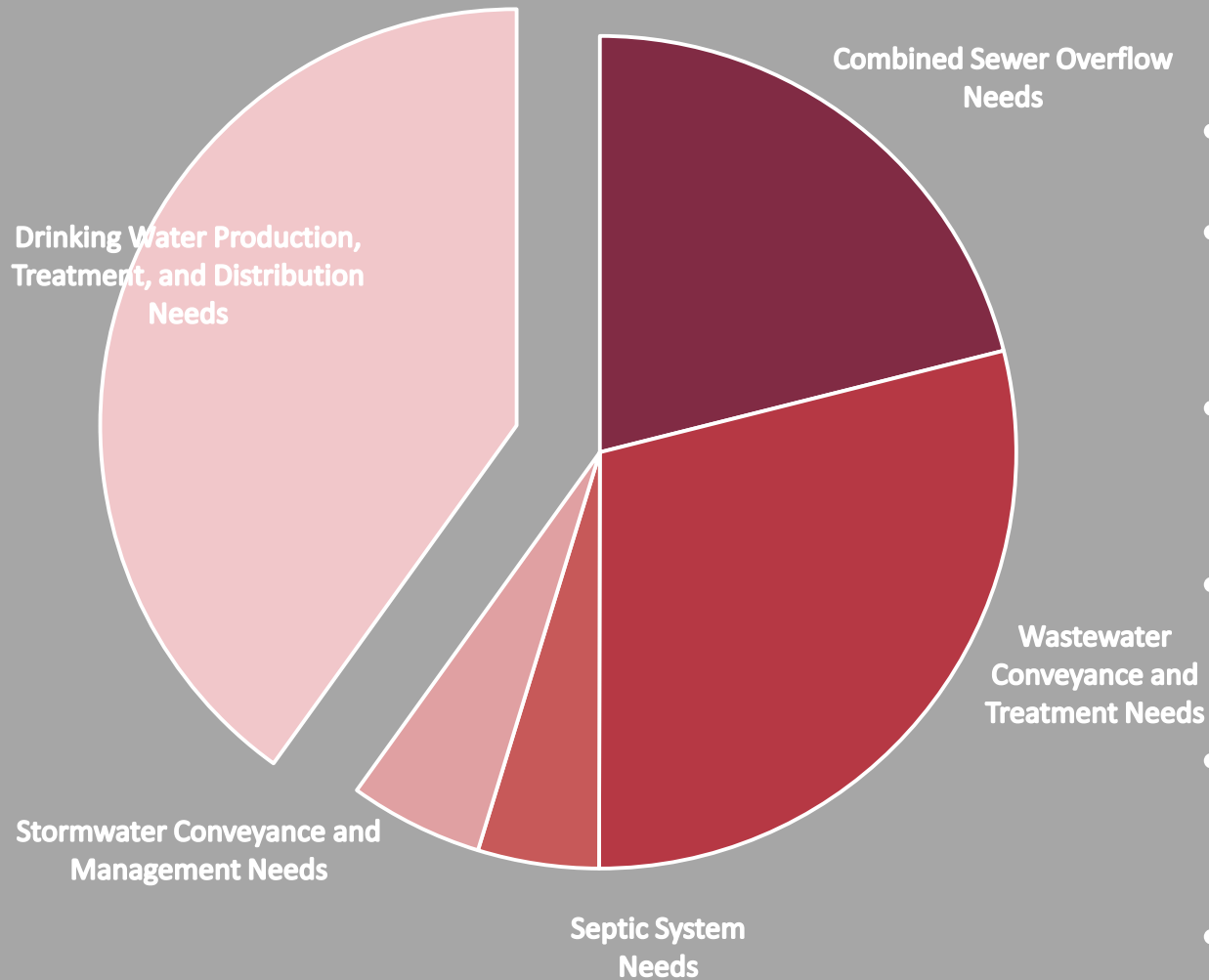
IACIR/OCRA Report

- 20 year need = \$15.6 to \$17.5 Billion
- Annual need = \$780 to \$877 Million

- 20 year spending = \$9.1 Billion

- 20 year spending gap = \$6.5 to \$8.5 Billion
- Annual spending gap = \$326 to \$423 Million

20-Year Drinking Water Needs: \$6.6B



- Source of needs: 2011 DWNS
- \$1.9 billion for large systems (>100,000 population)
- \$3.6 billion for medium systems (3,301 to 100,000 population)
- \$1.2 billion for small systems (< 3,300 population)
- Union County has fewest needs (\$4M)
- Lake County has the largest needs (\$678M)



- Senate Enrolled Act No. 347 required all public water utilities in the State of Indiana to provide to the IFA a Non-Revenue Water Audit as identified in the American Water Works Association Manual of Water Supply Practices M-36.
- The Act further requires that the IFA conduct a study and analysis of the infrastructure needs of the water utilities in the State of Indiana and submit a report on the study and analysis to the legislative services agency no later than November 1, 2016.
- WHY-FI WATER is the name IFA is using to identify the two tasks required by Senate Enrolled Act No. 347.



- **Drinking Water Infrastructure Needs**

- Survey of 520 community water systems (2015)
- Took needs identified by utilities and modelled additional needs based on the age of particular assets
- Includes meter and hydrant replacement (\$71 million annually). These wouldn't have been included in the 2011 DWNS
- \$2.3 Billion in immediate needs identified by 140 systems + calculated
- \$815 Million annual needs identified
- No data in report at county or utility level

IACIR/OCRA + IFA

- If we use
 - Current estimate as the low estimate for drinking water
 - The IFA Drinking Water infrastructure estimate as the high needs estimate
- Add \$12 Billion in 20 year drinking water needs
- Add \$598 Million in annual drinking water needs
- 20 year need = \$15.6 to \$39.5 Billion for all infrastructure types
- Annual need = \$780 Million to \$1.5 Billion for all types

IACIR/OCRA + IFA

- Still \$9.1 Billion expected for spending (no new data)
- 20-year spending gap for all types of infrastructure = \$6.6 to \$20.4 Billion
- Annual spending gap = \$326 Million to \$1 Billion

Conclusions

- Without additional funding, Indiana will have significant unmet infrastructure needs over the next 20 years. IFA data makes that even bigger!
- Updating needs
 - Add the new numbers for drinking water. Need local level data.
 - Update septic remediation numbers with results from the Unsewered Communities Survey
 - Explore methodologies for estimating stormwater needs; collect additional needs from communities