# Storm Water Survey Update from IFA and ACEC

presentation to Purdue LTAP Stormwater Drainage Conference February 9, 2021





# IFA Environmental Programs

- <u>1. State Revolving Fund Loan Program</u>
- Low interest loans
- Municipalities
- Wastewater & drinking water infrastructure



#### <u>2. Indiana Brownfields Program</u>

- Low interest loans
- Municipalities
- Assessment and remediation of brownfield sites
- Liability determinations



# IFA Environmental Programs

- 3. Water Resources and Infrastructure Planning Program
- Regional Water Supply and Demand Studies
- Water Loss Audits
- Lead Sampling Program in Public Schools and Child Cares
- Drinking Water (and Wastewater) Infrastructure Needs Survey
- Coordinate Executive Branch activities related to the State's water program



# Storm Water Survey: background

- 2019 Storm Water Task Force
- Final Report recommendation conduct a survey
- 20 rural and urban storm water systems
- Funding, asset management, capital needs, system age and capacity, interaction with state agencies, water quality and quantity trends, longterm planning, institutional constraints, interactions with neighbors
- 2020 IFA ACEC formed small working group



# Storm Water Survey: methodology

Wide range of types of entities managing storm water

- Urban MS4 city, county
- MS4 co-permittee county, city, town
- Storm water utility, but not an MS4 town
- Manage storm water, but not a utility small town rural
- MS4 list + municipal wastewater NPDES permit holders = >800



# Storm Water Survey: methodology

- No previous study of this kind lots of questions
- Honed to prevent survey fatigue but still captured desired info
  - Budgeting O&M vs. Capital improvements
  - Employees FTE
  - Age, size, count
  - Suggestions for improvement
- Vetted survey with IUPUI and IDEM
- Used online survey tool

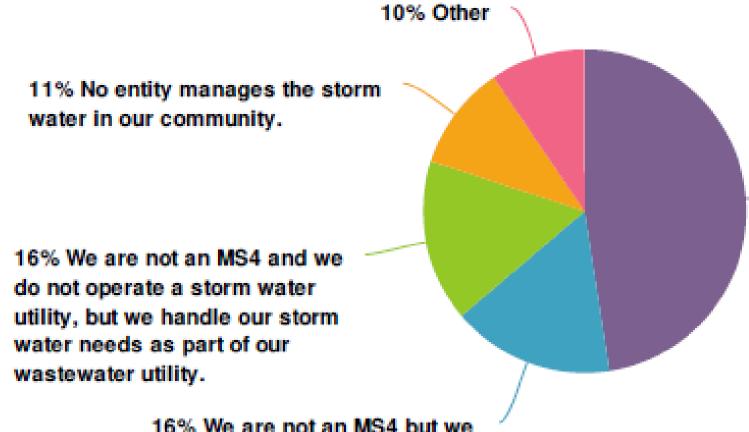


#### Storm Water Survey: responses

- 107 surveys
- Counties, cities, towns
- Equally distributed statewide
- Range of job titles

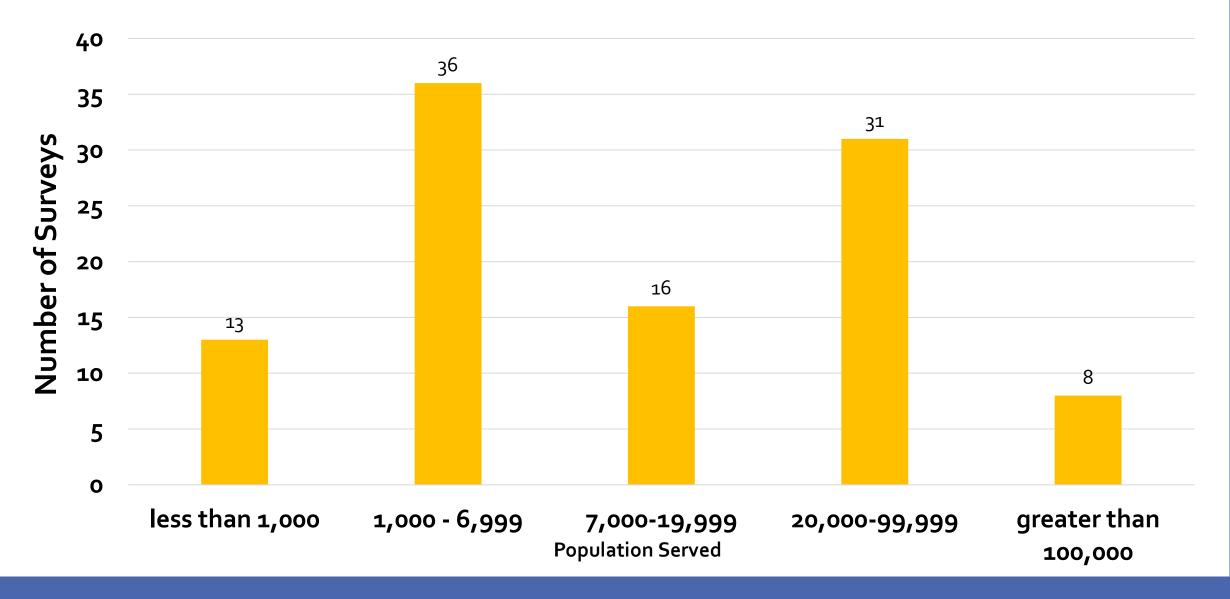
compliance engineer treasurer assistant engineering water coordinator ms4 supt directorcounty storm superintendent town amp utilities city utilities administratormayo wastewater

#### How is storm water managed in your community?

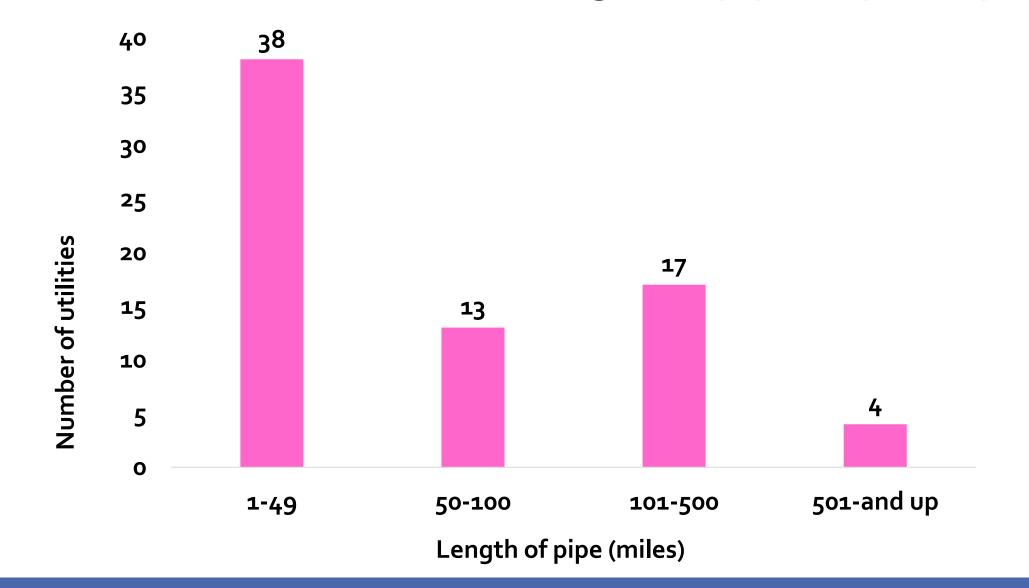


16% We are not an MS4 but we operate our own storm water utility (that is separate from the wastewater utility). 48% We are a Municipal Separate Storm Sewer System ("MS4") or we are part of /co-permittee on another entity's MS4.

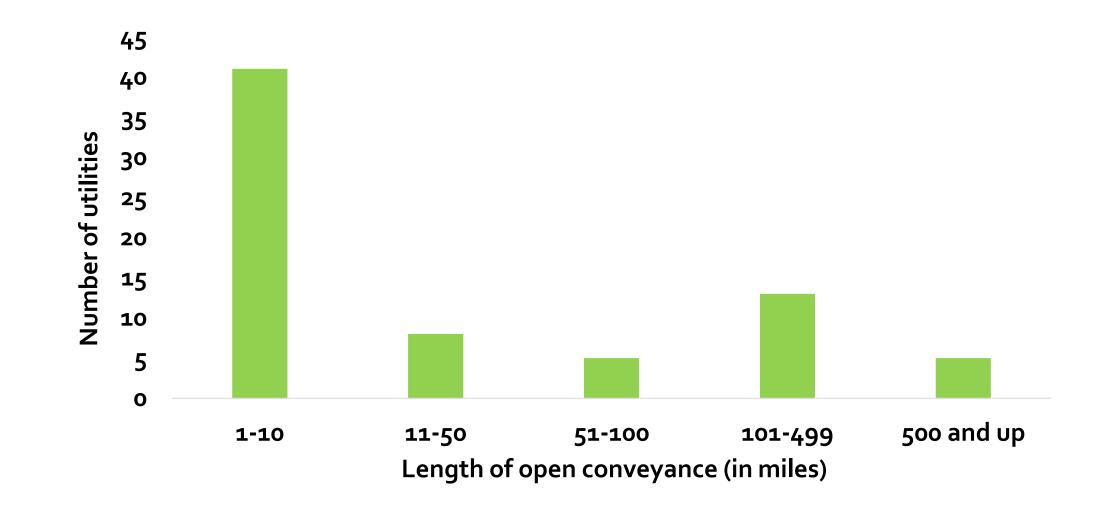
#### Storm Water Survey: population of respondents



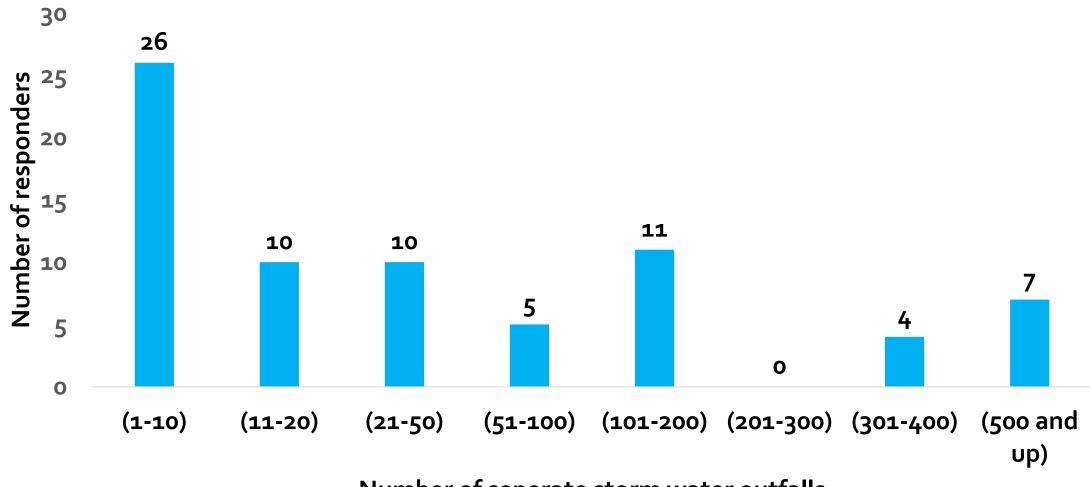
# What is the total estimated length of pipe in your system?



#### <u>What is the total length of open conveyance (ditch)?</u>

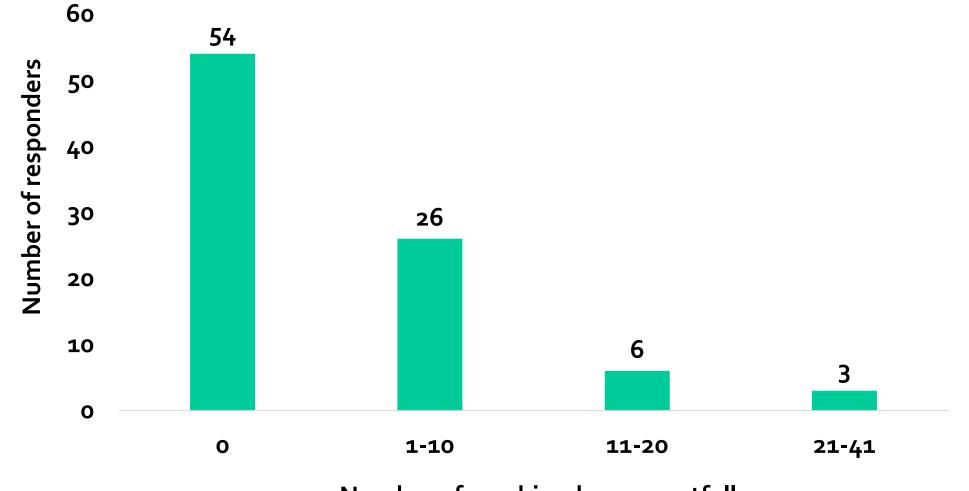


#### How many separate storm water outfalls?

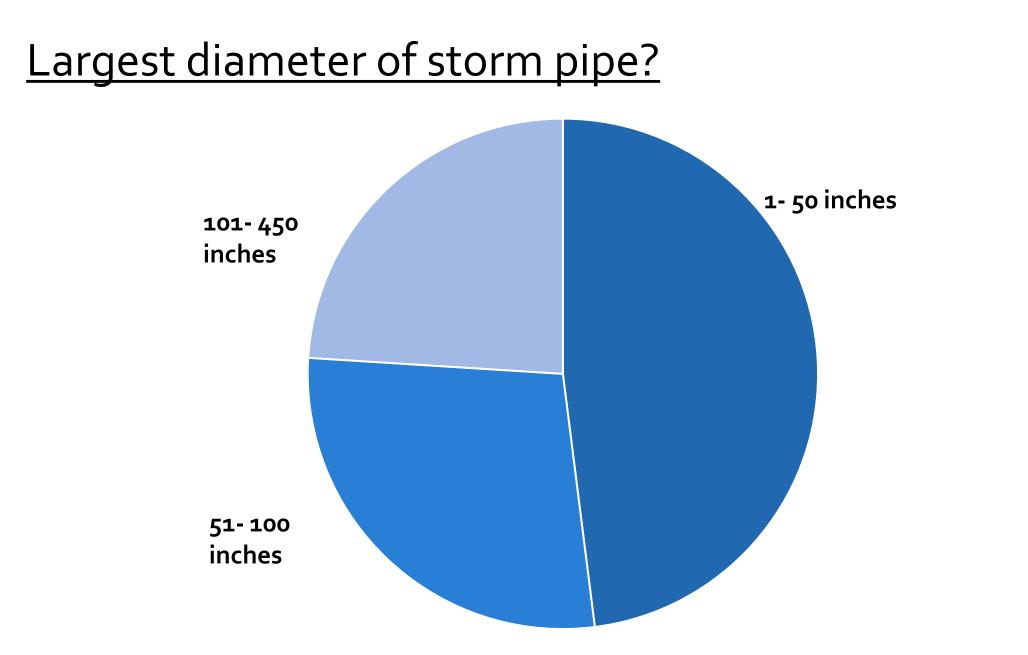


Number of seperate storm water outfalls

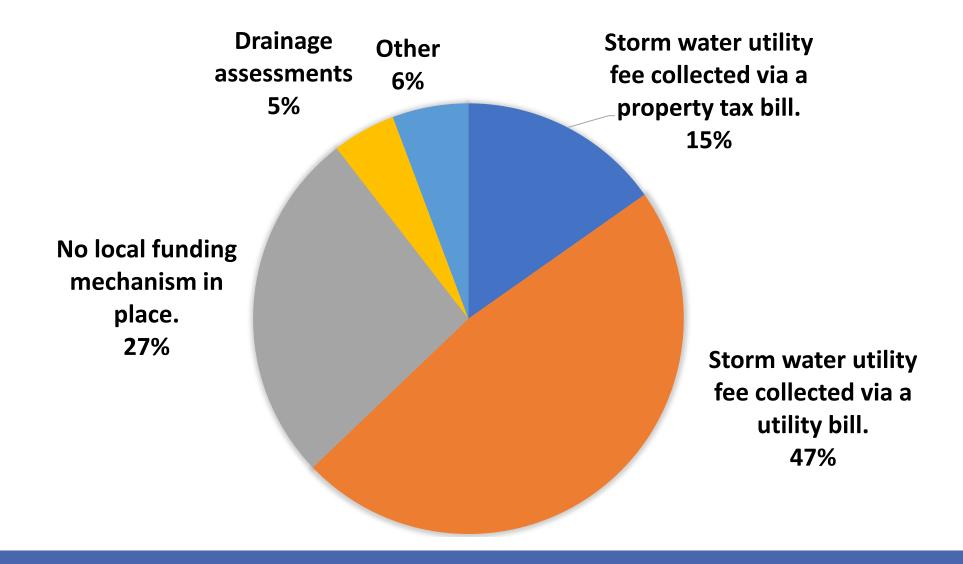
#### How many combined sewer outfalls?



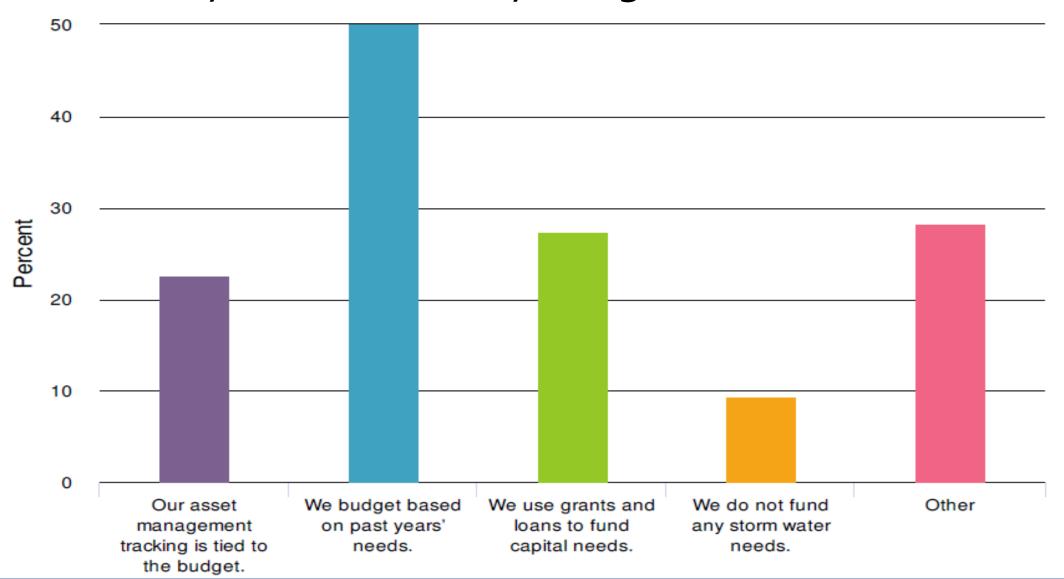
Number of combined sewer outfalls



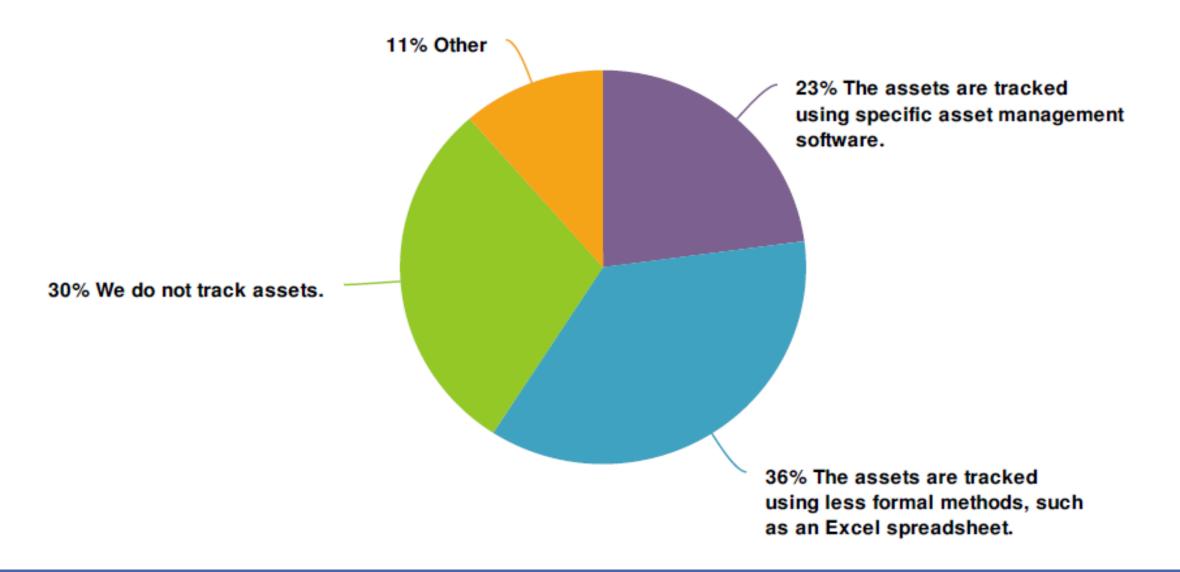
#### How does your community fund storm water needs?

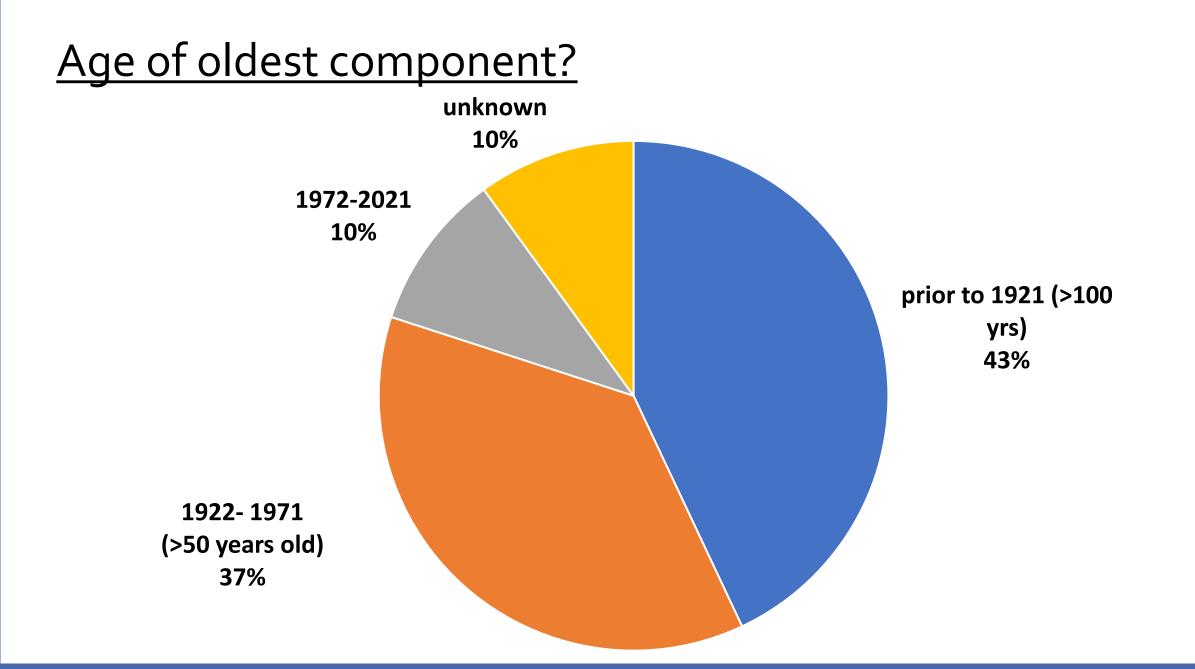


#### How does your community budget for needs?

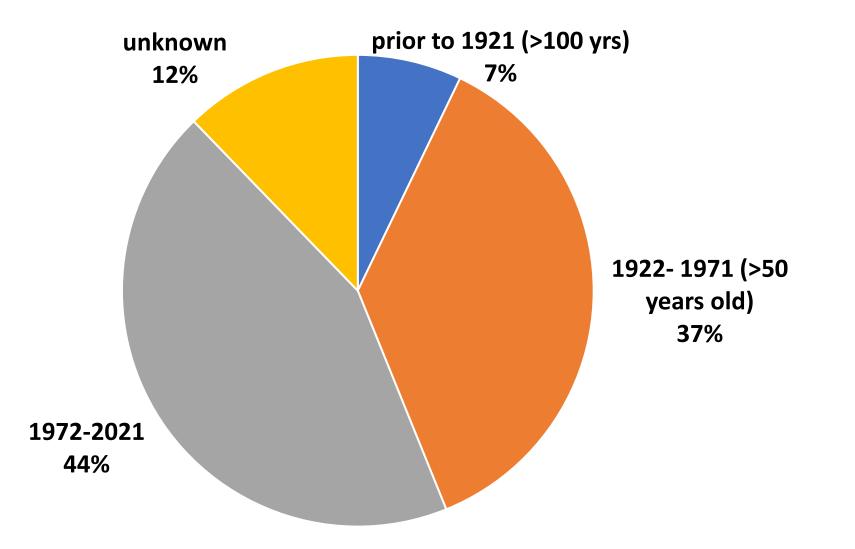


#### How does your community track assets?





# <u>Age of most of the components?</u>



# Storm water infrastructure priorities?

Deteriorated infrastructure – high

Undersized infrastructure – medium/high

Lack of infrastructure – medium

Infrastructure to address water quality – low/medium

Other: maintenance of infrastructure



# <u>Water quality priorities?</u>

Sediments – high

E.coli/bacteria – medium/high

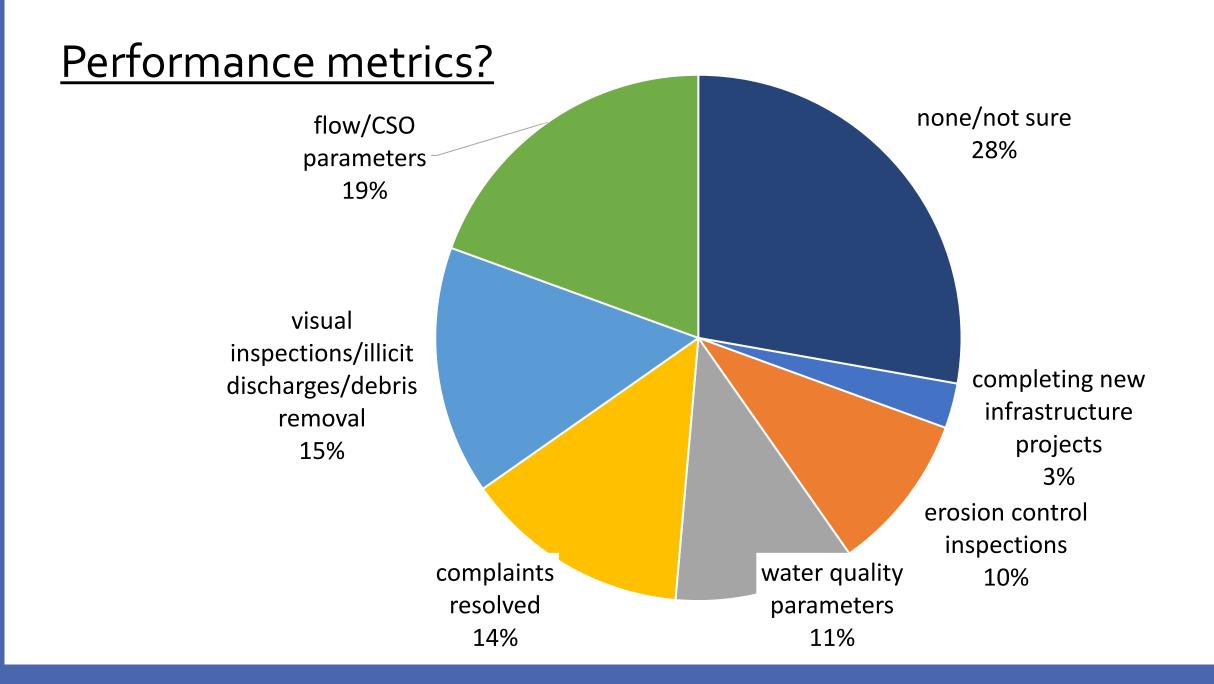
Trash/floatable solids – medium/high

Nutrients – low/medium

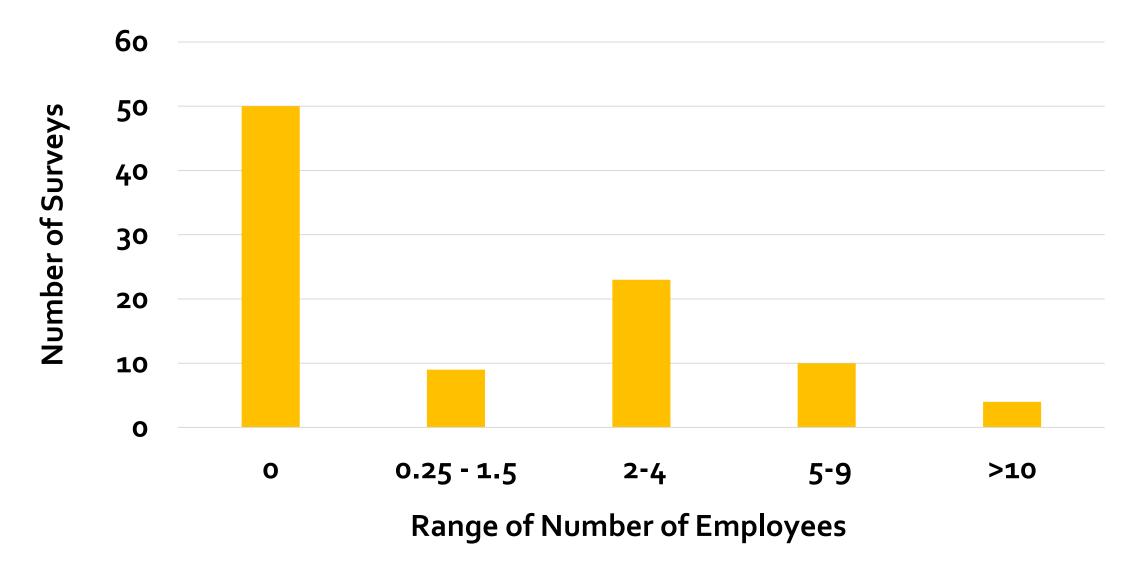
Oils – low

 $\mathsf{Metals}-\mathsf{low}$ 





#### Number of full-time storm water employees?

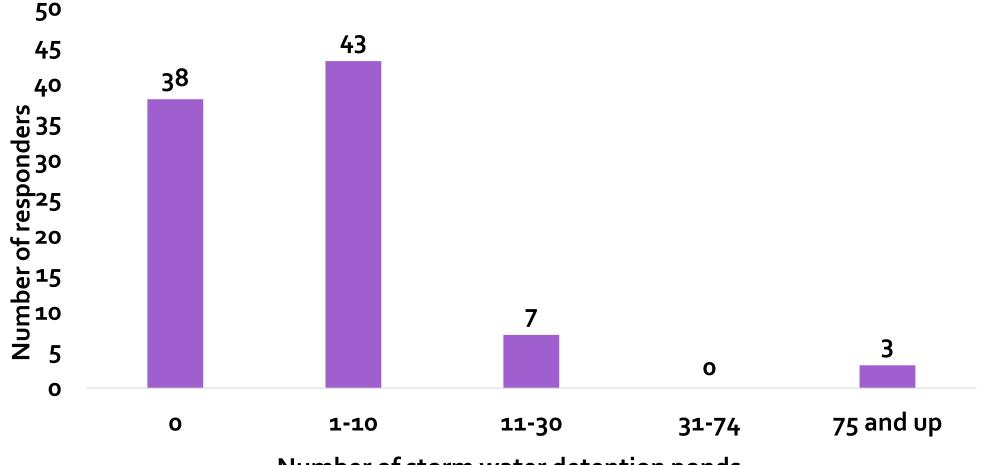


# Constraints?

- 73% Limited staffing in storm water department
- 72% Limited or no budget
- 35% No support for Low Impact Development/Green Infrastructure
- 34% Difficulty enforcing existing storm water ordinances
- 33% No local support to increase storm water utility rates
- 24% No local support for forming a storm water utility
- 7% We have no constraints

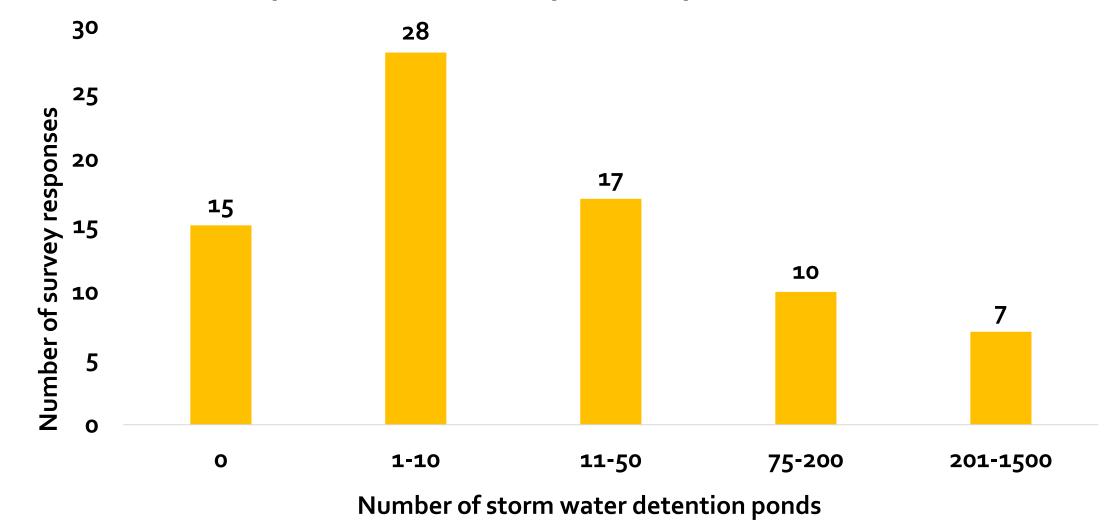


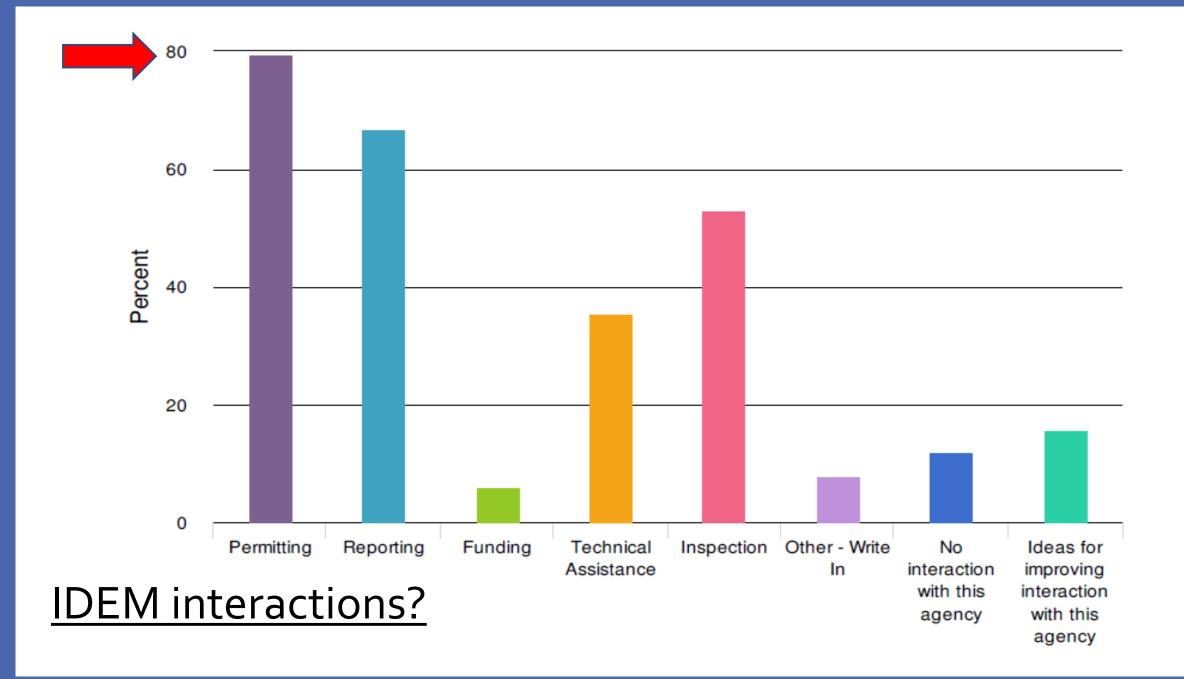
# How many storm water detention ponds are in your system that are owned by your community?

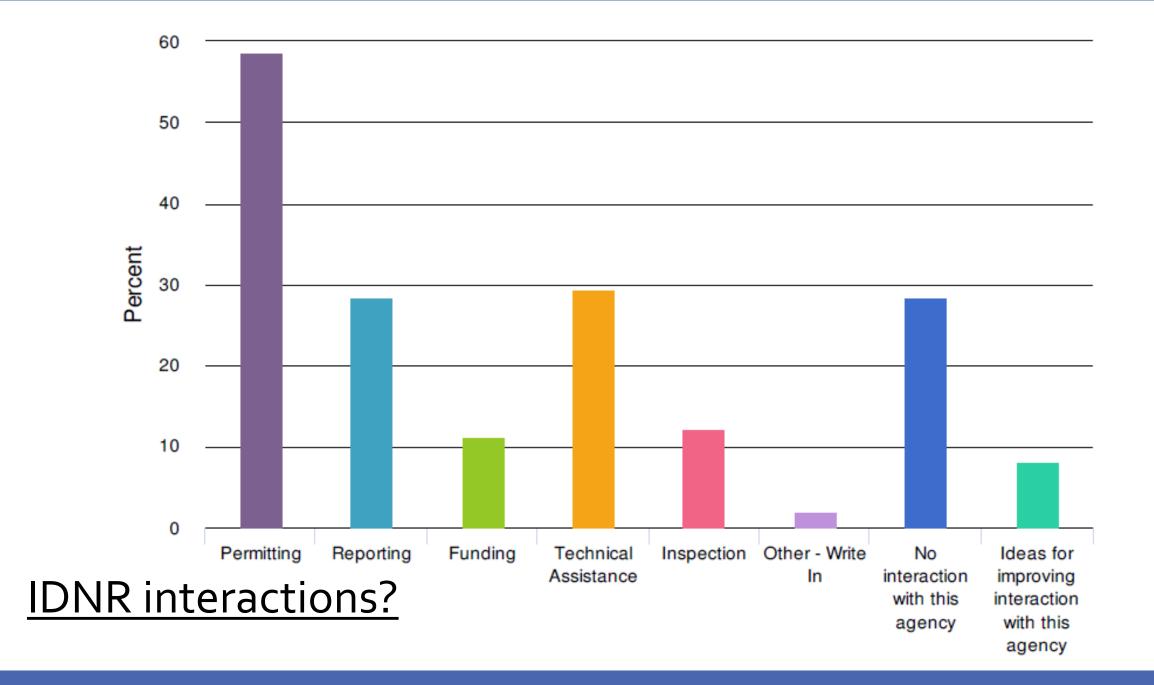


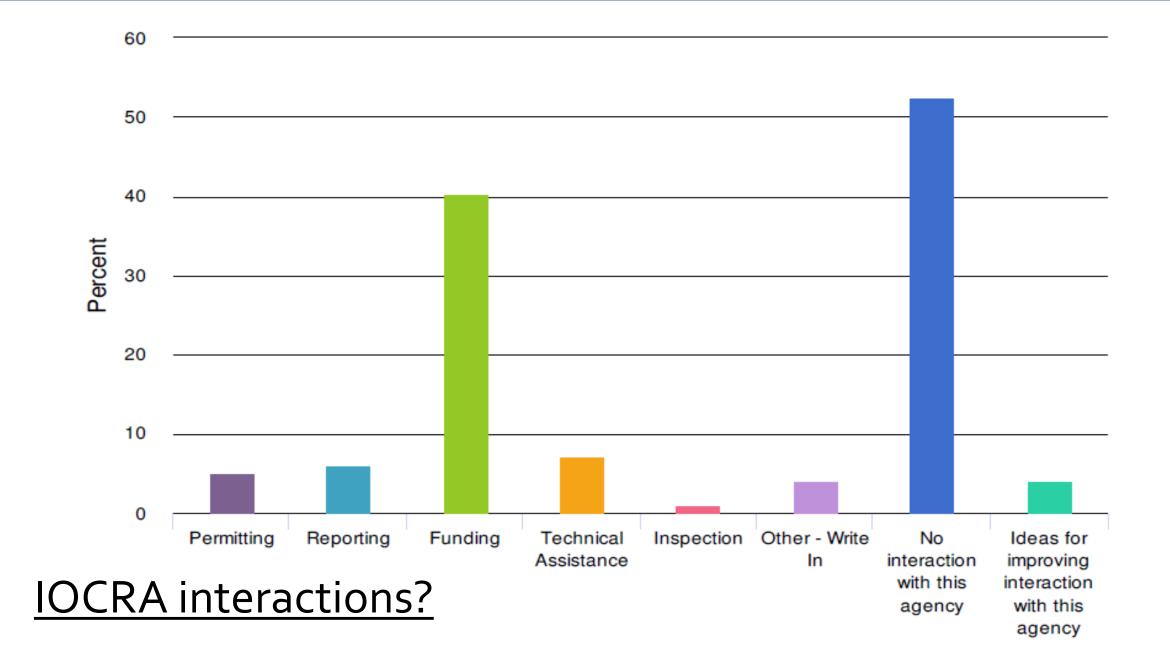
Number of storm water detention ponds

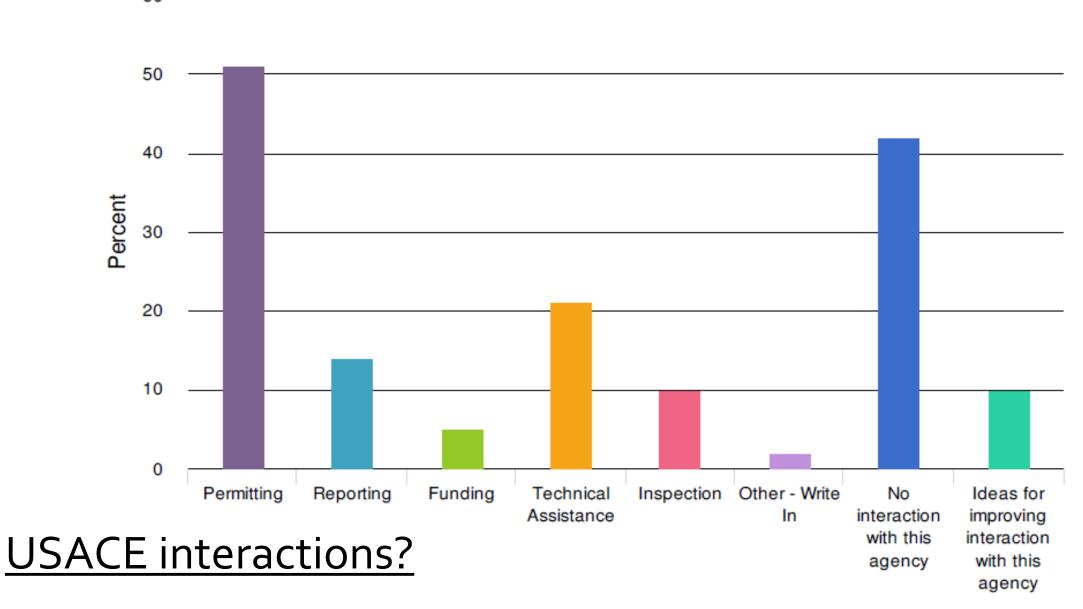
# <u>How many privately-owned storm water detention</u> or retention ponds are in your system?

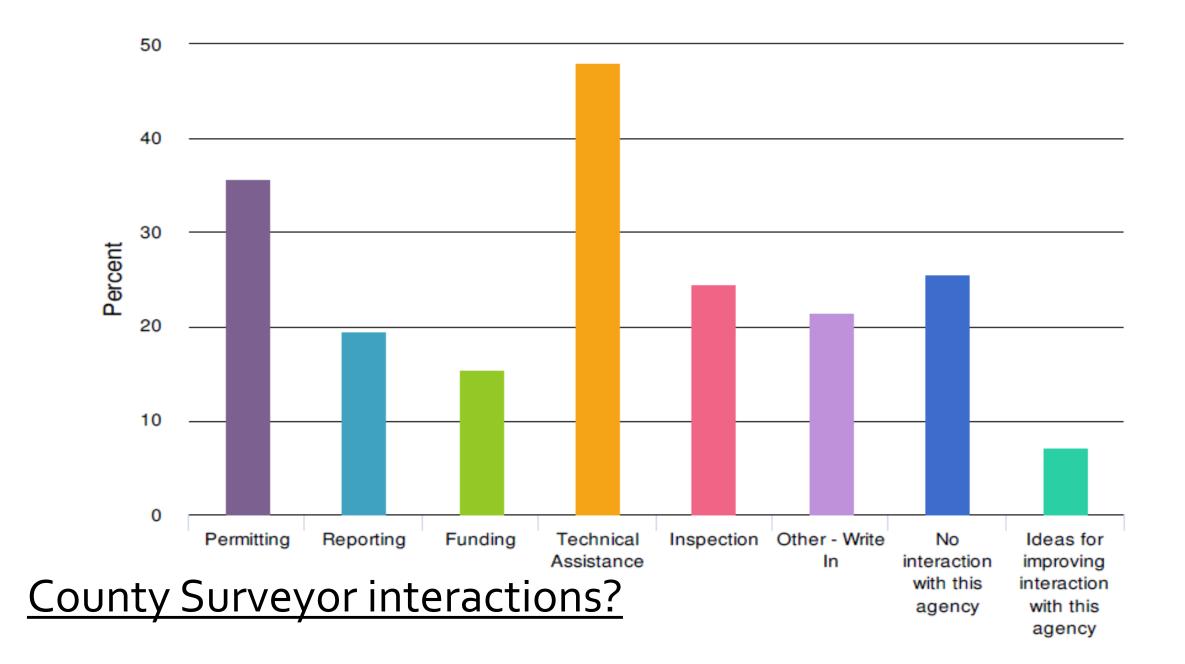


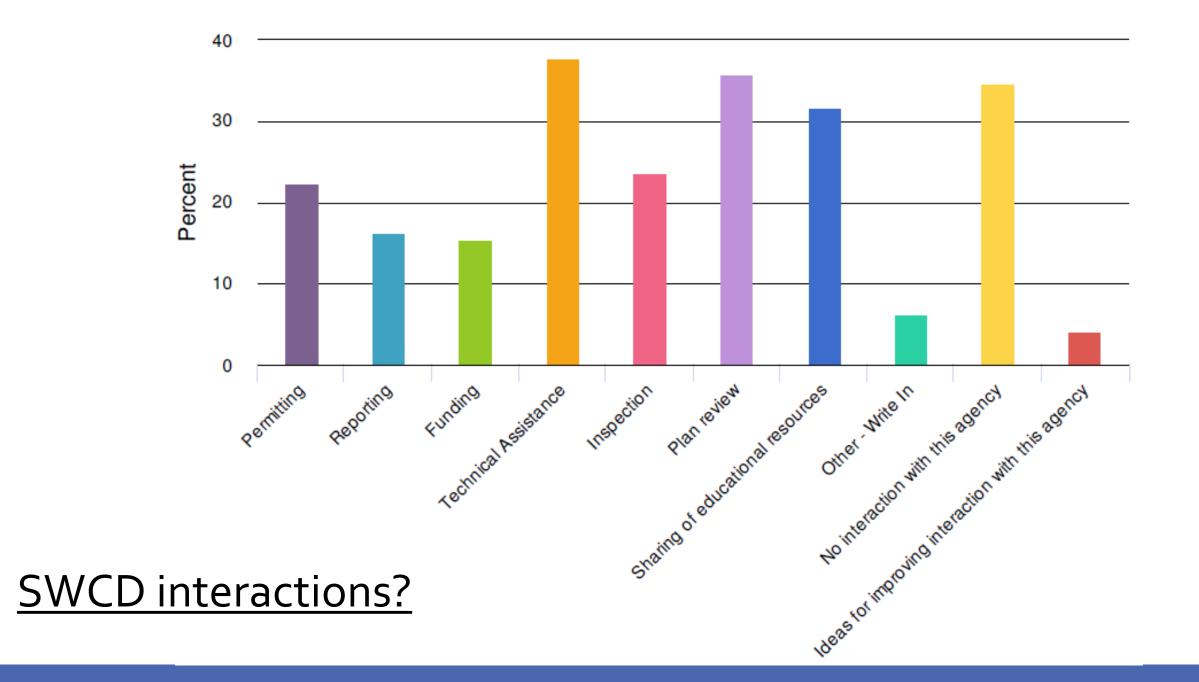




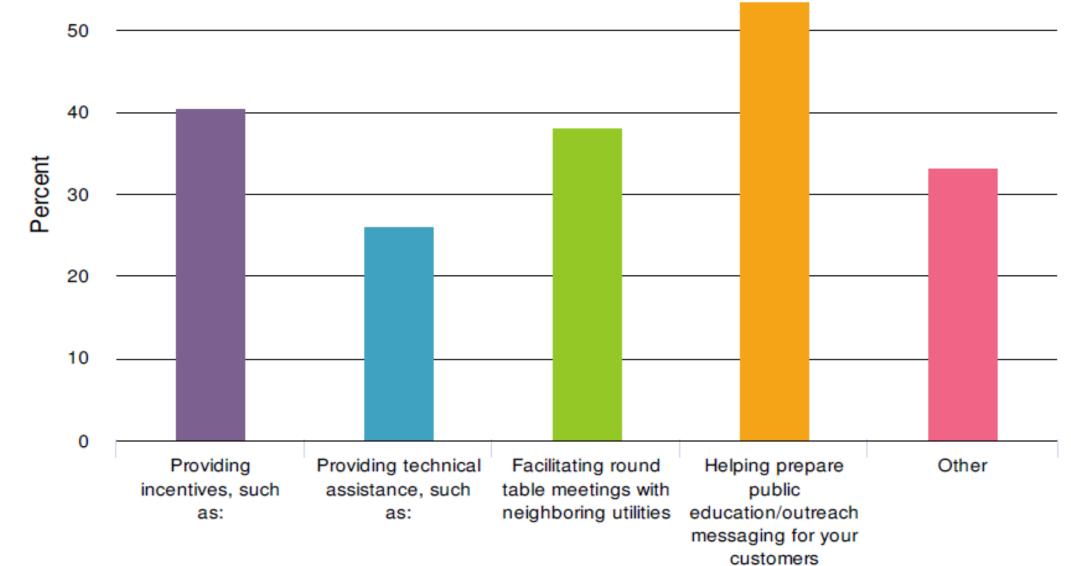








#### State assistance?



# Storm Water Survey: Next Steps

- Finish data analysis
  - Q: what data are you most interested in knowing more about?
- Issue final report
- Post to IFA website
- Share with other agencies
- All survey responders will receive an email with link to report





IFA Water Resources and Infrastructure Planning Program IFA website: <u>https://www.in.gov/ifa</u>

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