

DEQ Community Mapping System – Discussion  
Secretary’s Environmental Justice and Equity Advisory Board  
May 22, 2019 Charlotte, North Carolina

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# *Background*

- Settlement Agreement: May 3, 2018
- DEQ research
- Stakeholder process
- Iterative Development



## *Stakeholder Engagement and Development Process*

- **Academic Focus Groups**

- Spoke with with GIS and EJ scholars from NC State, Chapel Hill, Duke, UNCG, NC Central, UNC Charlotte, and App State

- Calls with **other states** that have developed EJ mapping

- Meetings with Pennsylvania, California and EPA

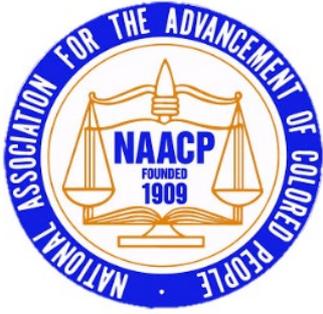
- **Public Community Meetings**

- Wayne County
- Forsyth County
- Rutherford County

- **6 Small Community Organization Meetings/Calls**

- **Website and Public Survey**

# Community Organizations Consulted

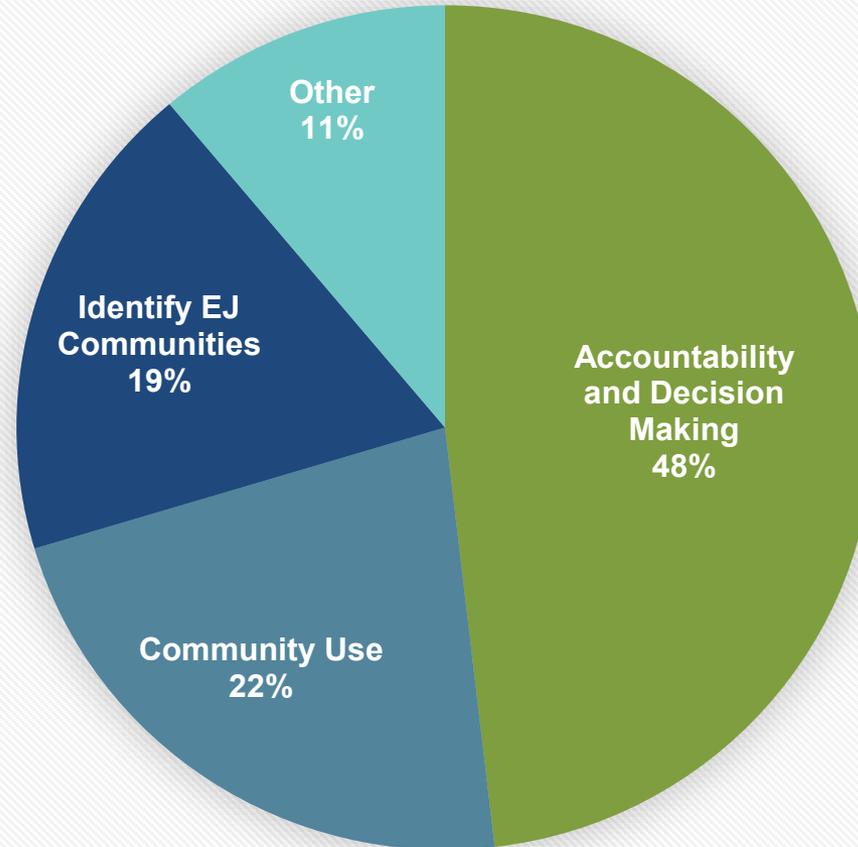


# *Survey Results and Trends*

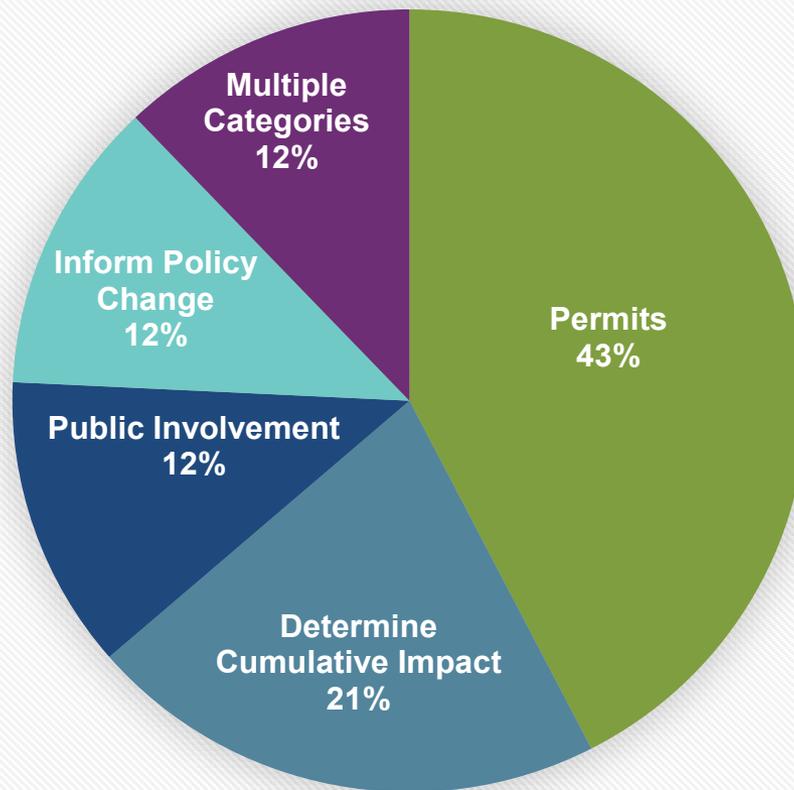
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Responses

## Desired Mapping System Uses

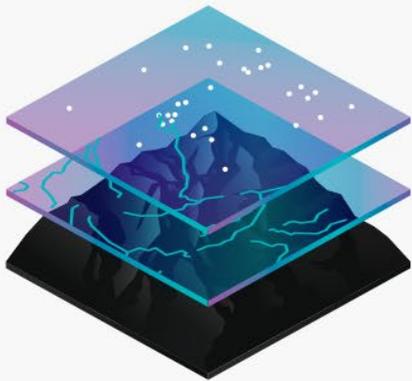


## How DEQ Should Use the System



# What is a GIS Map?

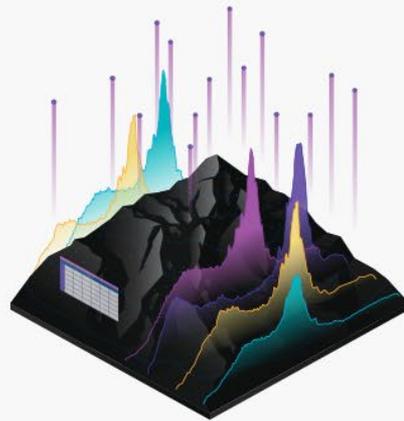
- “A geographic information system (GIS) is a framework for gathering, managing, and analyzing data. Rooted in the science of geography, GIS integrates many types of data. It analyzes spatial location and organizes layers of information into visualizations using maps and 3D scenes. With this unique capability, GIS reveals deeper insights into data, such as patterns, relationships, and situations—helping users make smarter decisions.” - ESRI



## Maps

Maps are the geographic container for the data layers and analytics you want to work with. GIS maps are easily shared and embedded in apps, and accessible by virtually everyone, everywhere.

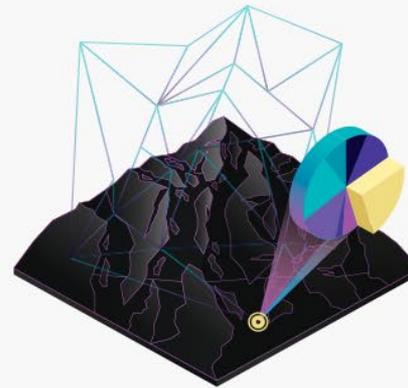
[Read about maps in The ArcGIS Book](#)



## Data

GIS integrates many different kinds of data layers using spatial location. Most data has a geographic component. GIS data includes imagery, features, and basemaps linked to spreadsheets and tables.

[Read about data in The ArcGIS Book](#)



## Analysis

Spatial analysis lets you evaluate suitability and capability, estimate and predict, interpret and understand, and much more, lending new perspectives to your insight and decision-making.

[Read about Analysis in The ArcGIS Book](#)

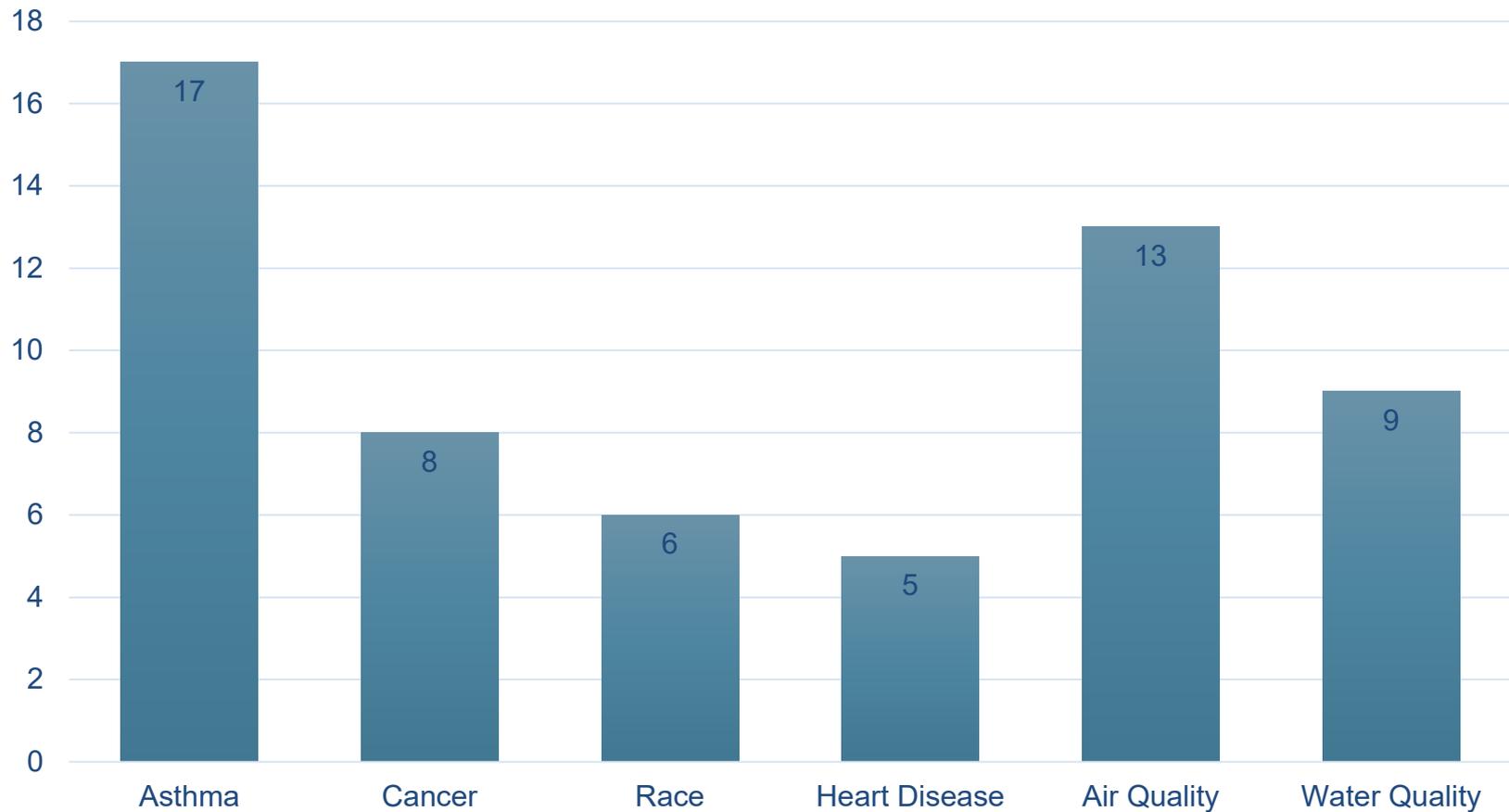


## Apps

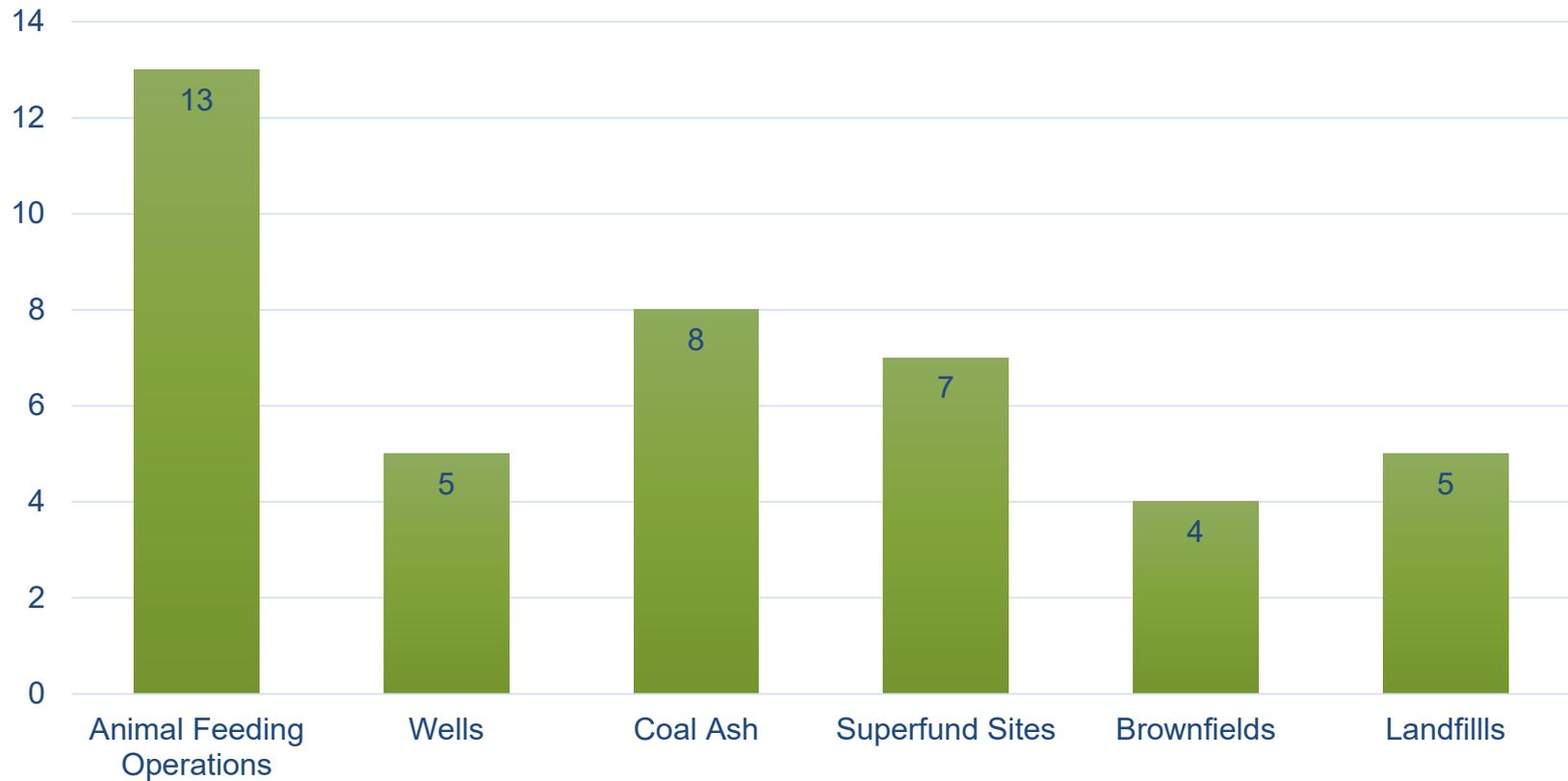
Apps provide focused user experiences for getting work done and bringing GIS to life for everyone. GIS apps work virtually everywhere: on your mobile phones, tablets, in web browsers, and on desktops.

[Read about GIS Apps in The ArcGIS Book](#)

## 6 Most Common EJ Layers



## 6 Most Common Environmental/Permitting Layers



<https://deq.nc.gov/outreach-education/environmental-justice/deq-north-carolina-community-mapping-system>

Also on the EJ Website:

- Other States
- Survey
- 'How To'

DEQ North Carolina Community Mapping System

Environmental Justice

DEQ North Carolina Community Mapping System

DEQ North Carolina Community Mapping Tool Survey

Environmental Justice Reports

Secretary's Environmental Justice and Equity Board

Additional Information

Stakeholder Engagement Opportunities

State and Nationwide Mapping Tools

The N.C. Department of Environmental Quality (DEQ) is creating a department community mapping system to increase local outreach and public participation. The first version will be a BETA version, and DEQ will seek stakeholder feedback.

[Click for survey →](#)

The N.C. Department of Environmental Quality will be hosting three information sessions to gain community feedback on what a North Carolina Community Mapping System should look like to benefit all North Carolinians. Below are the dates of the three community engagements across North Carolina. If you are unable to attend one of the meetings, please provide feedback via the survey located on the "Community Mapping System Stakeholder Survey" tab.





*Key Additions that sets DEQ Tool apart  
from EJSCREEN*

- Allows user to define his or her own community in an interactive and dynamic way
- State Tribal Boundaries
- Disability
- Poverty status
- More specific breakdown of income brackets
- More specific health data
  - Preterm birth rates
  - Infant death rates
  - Cancer
  - Diabetes
  - Stroke
  - Asthma hospitalizations
  - Number of physicians

\*EJSCREEN has some of these layers, such as Asthma rates, but only on a state level