















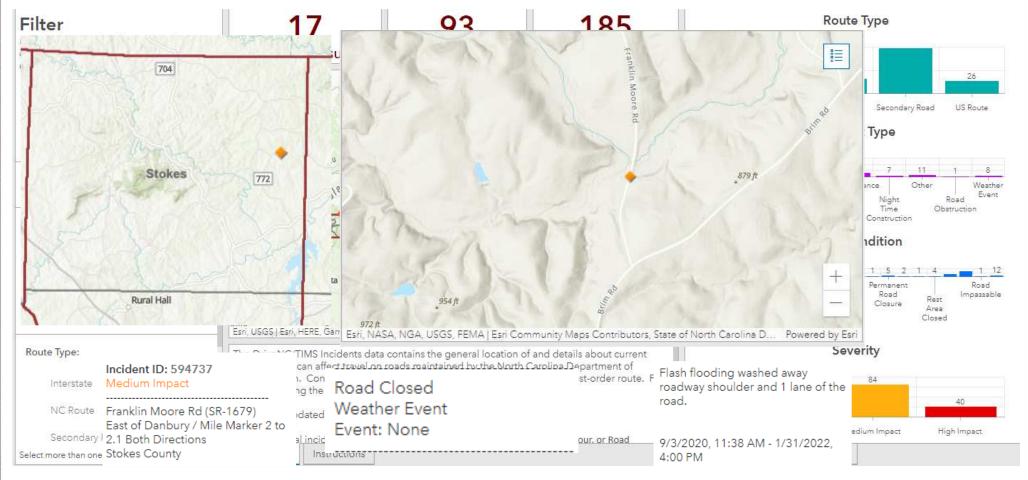




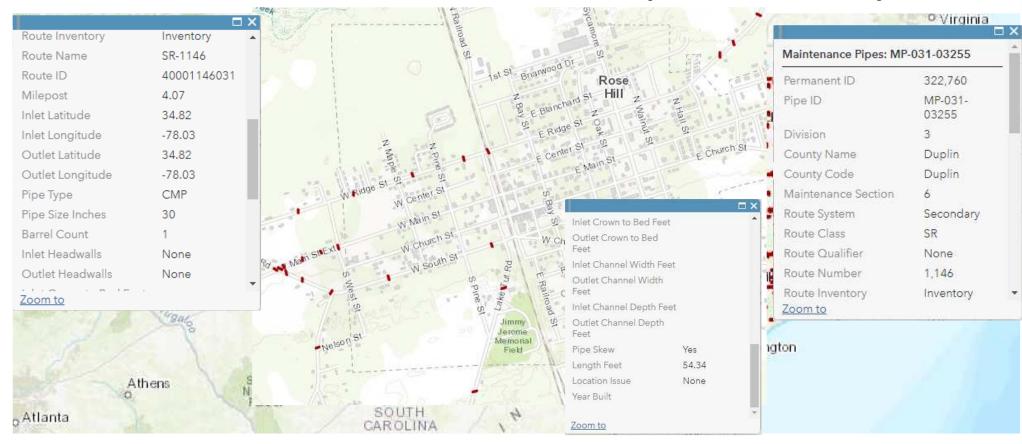
Climate Resilience DataPalooza

Nastasha Earle-Young, Statewide Initiatives Engineer Transportation Planning Division

Drive NC Database

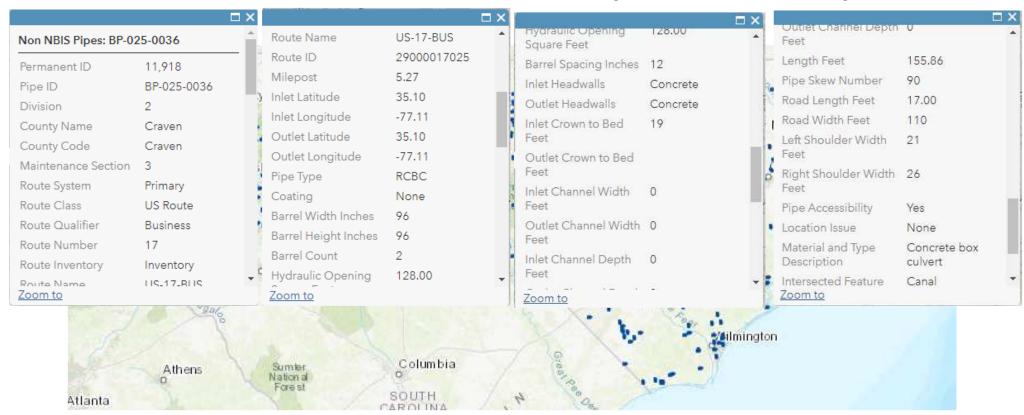


Statewide Maintenance Pipe Inventory

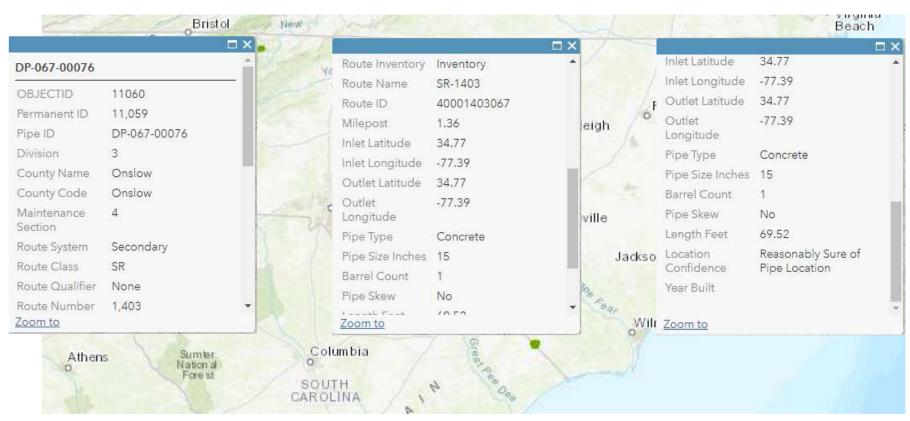


https://ncdot.maps.arcgis.com/home/item.html?id=00cc017f649247d8816fd817e842606f

Statewide Non-NBIS Pipe Inventory

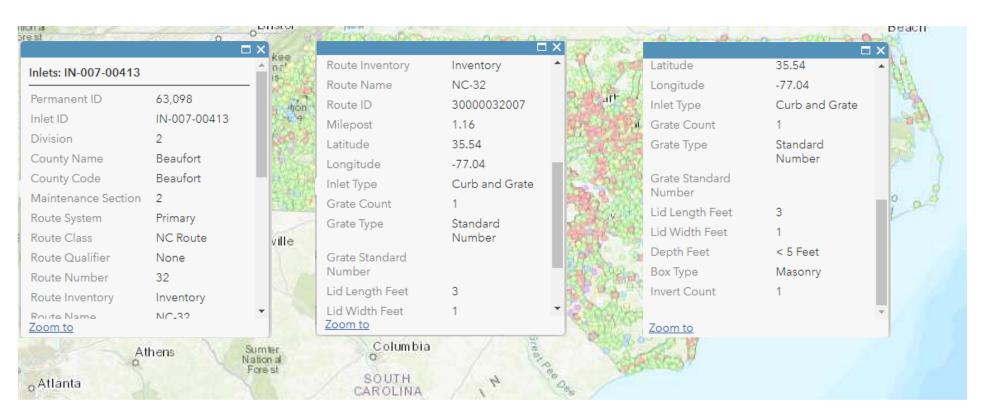


Statewide Storm Drainage Pipe Inventory

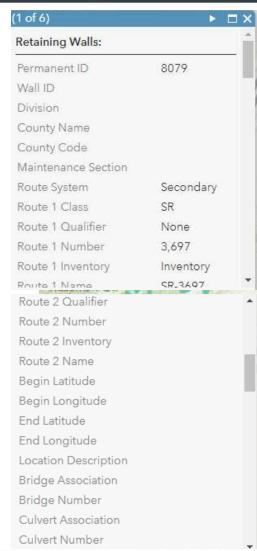


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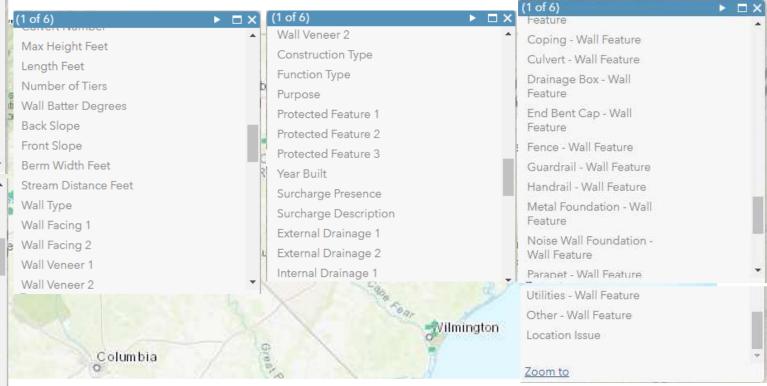
Statewide Inlets Inventory



https://ncdot.maps.arcgis.com/home/webmap/viewer.html?layers=e376c6f20afc4154a28fb26dc08158df



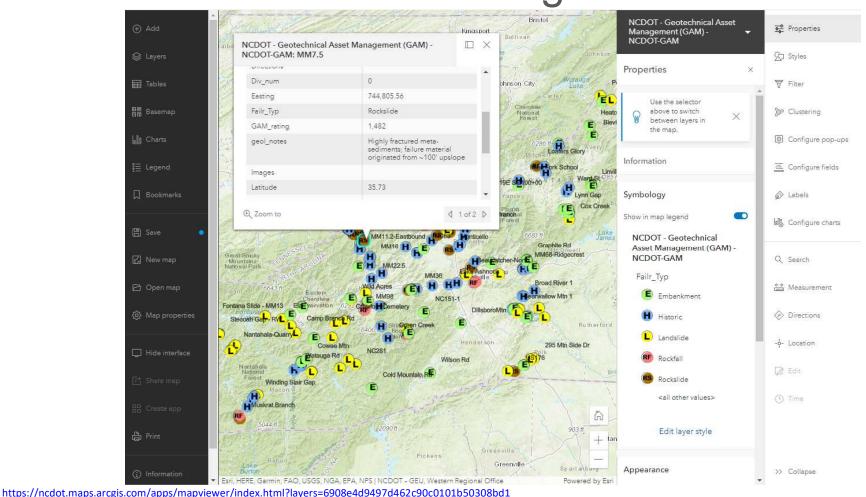
Statewide Retaining Walls



https://ncdot.maps.arcgis.com/home/webmap/viewer.html?layers=e376c6f20afc4154 a28fb26dc08158df

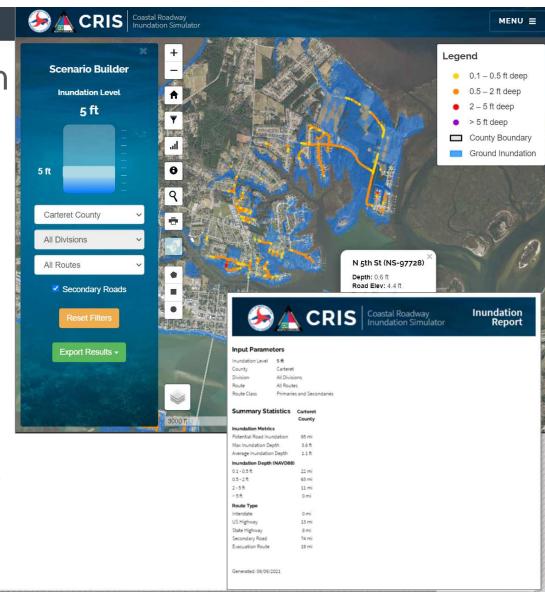
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Geotech Asset Management Database



Coastal Roadway Inundation Simulator (CRIS)

- Comprises 23 coastal counties
- •Inundation from 1-17 ft
- •4 inundation categories:
 - -0.1 0.5 ft
 - -0.5 2 ft
 - -2 5 ft
 - ->5 ft
- Analyzed primary and secondary roads (over 6,500 miles)



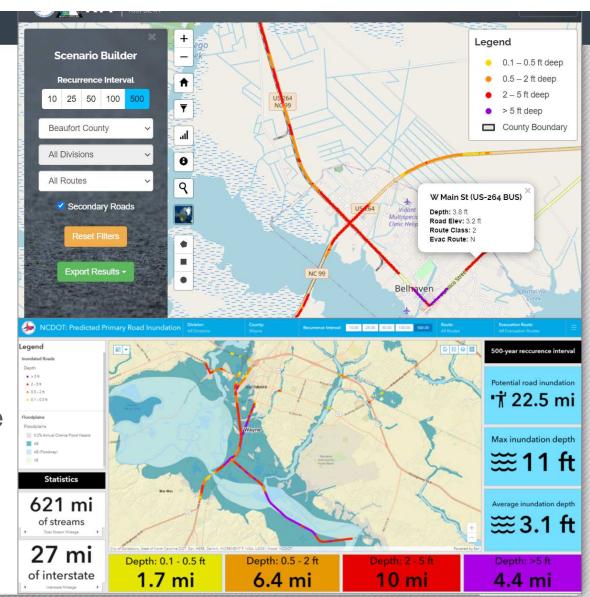
Road Inundation Tool (RIT)

- Based on multi-frequency flood studies
 - 10-, 25-, 50-, 100- and 500-year recurrence intervals
- Statewide coverage
- Analyzed primary and secondary roads

Originally was an ArcGIS Online

dashboard

Recurrence	% Chance in
Interval	a Year
10	10.0%
25	4.0%
50	2.0%
100	1.0%
500	0.2%



Additional Resources

- <u>Resilience website</u>
 <u>https://www.ncdot.gov/initiatives-policies/Transportation/transportation-resilience</u>
- ArcGIS Platform https://ncdot.maps.arcgis.com/home/index.html
- Research
 https://connect.ncdot.gov/projects/research/Pages/ProjectSearch.aspx
- NCDOT Division of Highways staff
 - County Maintenance Engineer, District Engineer, Division Planning Engineer























resilience@ncdot.gov