



GREATER NASHVILLE
REGIONAL COUNCIL

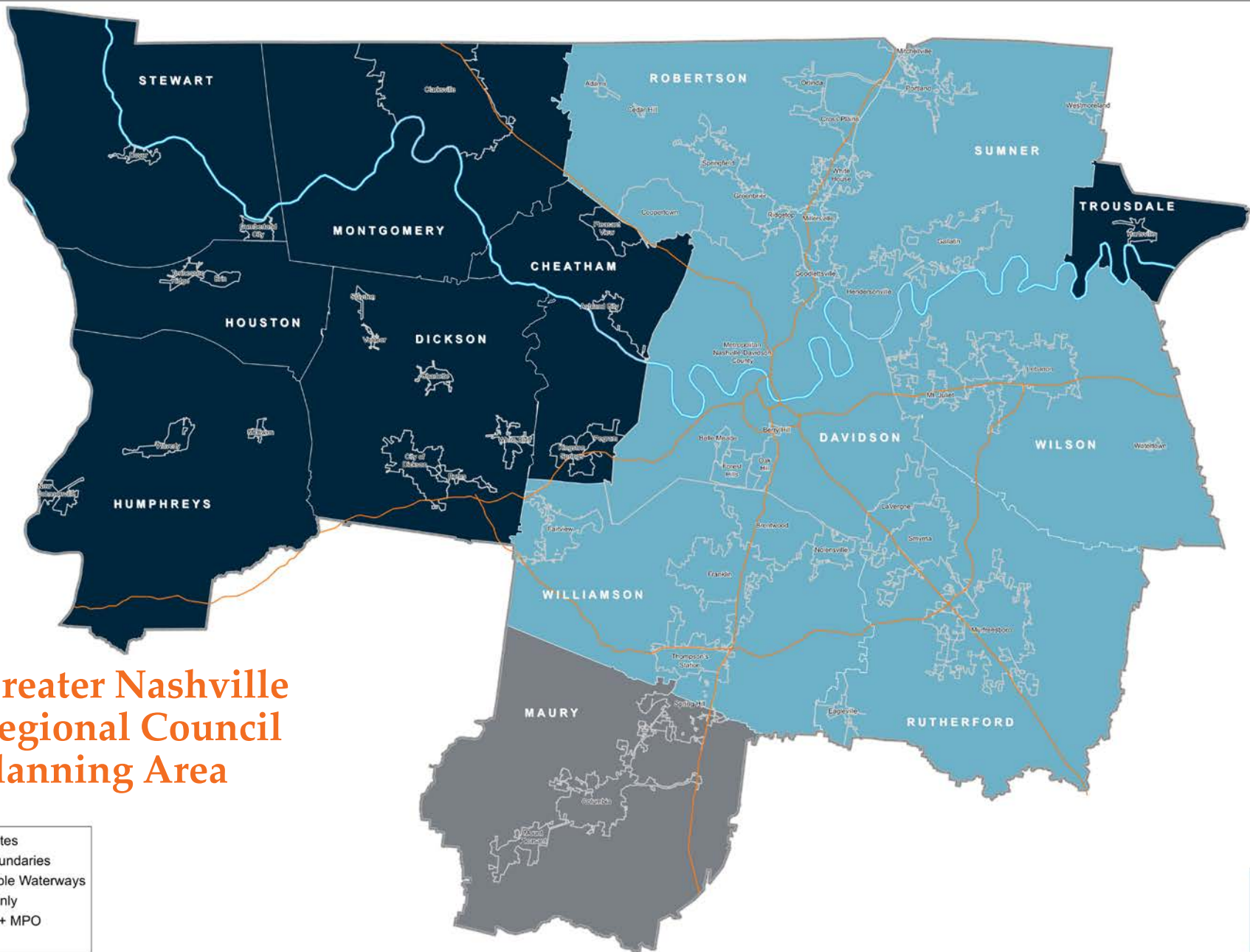
Greenprint Atlas

January 2022

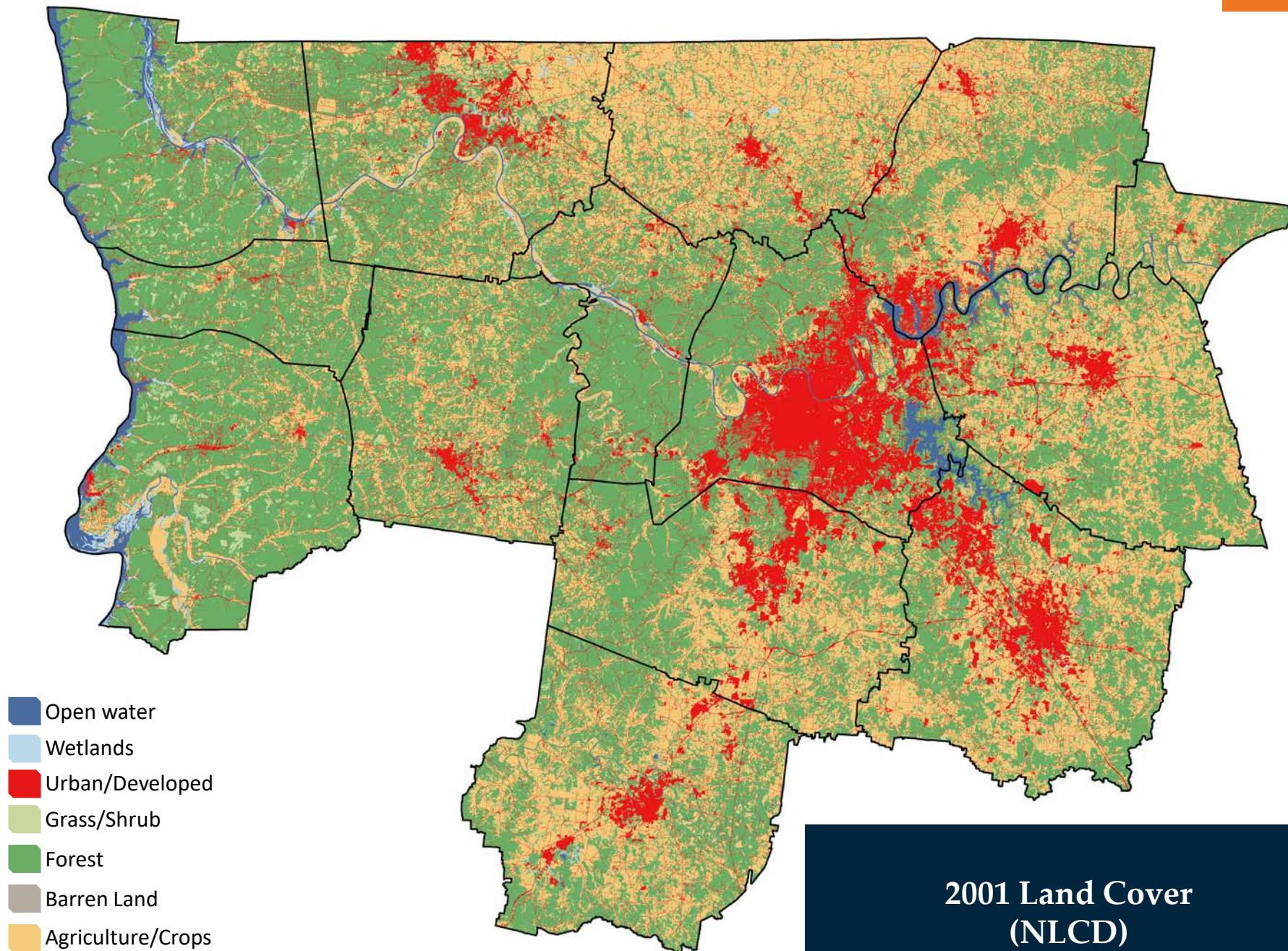
A collection of regional environmental datasets

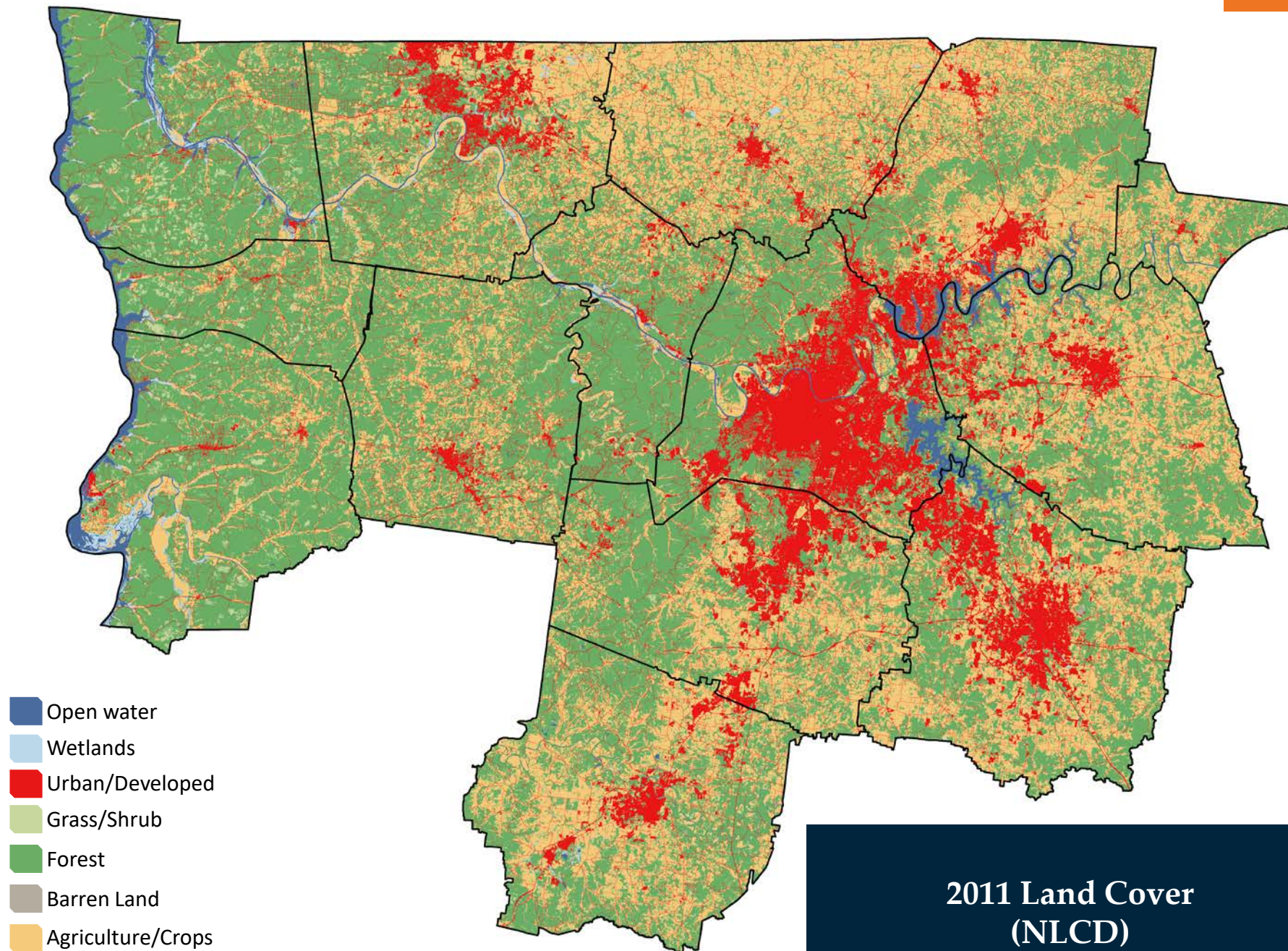
Data Layer Inventory

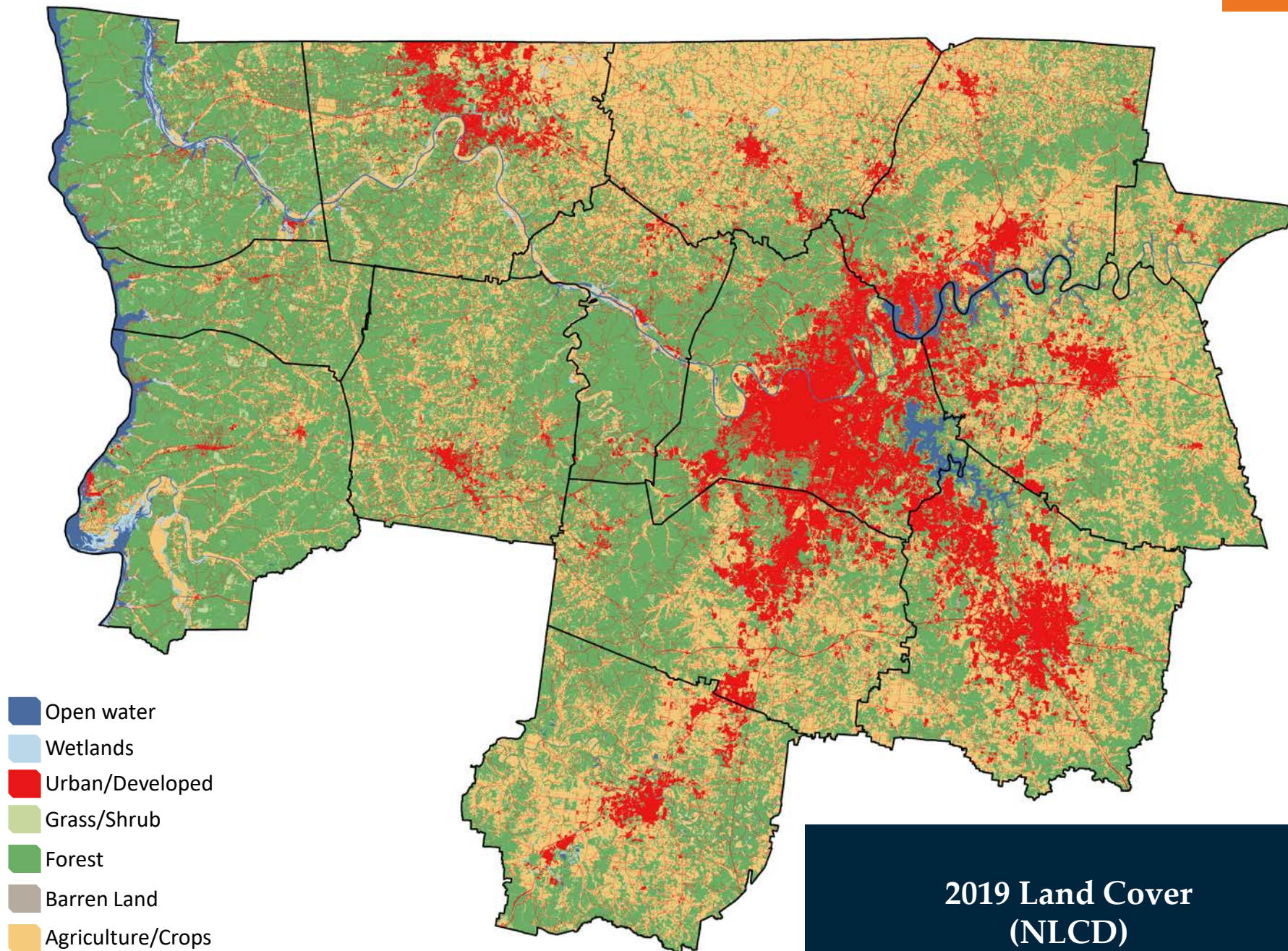
- Land Cover (NLCD)
- Forecasted Growth & Development Pattern
- Impervious Surfaces, Tree Canopy (Landsat)
- Land Use
- Protected Lands / Conservation Areas
- Elevation & Steep Slopes
- Prime Agricultural Soils
- Existing & Planned Greenways & Trails
- Critical Habitat
- Watershed Boundaries
- Surface Waters & Wetlands
- FEMA Floodways & Floodplains
- Impaired Waters, BMP Sites, Access Sites
- Historic Sites & Districts, Century Farms
- Vulnerable Populations
- Priority & High Value Conservation Areas
- Environmentally Sensitive Areas

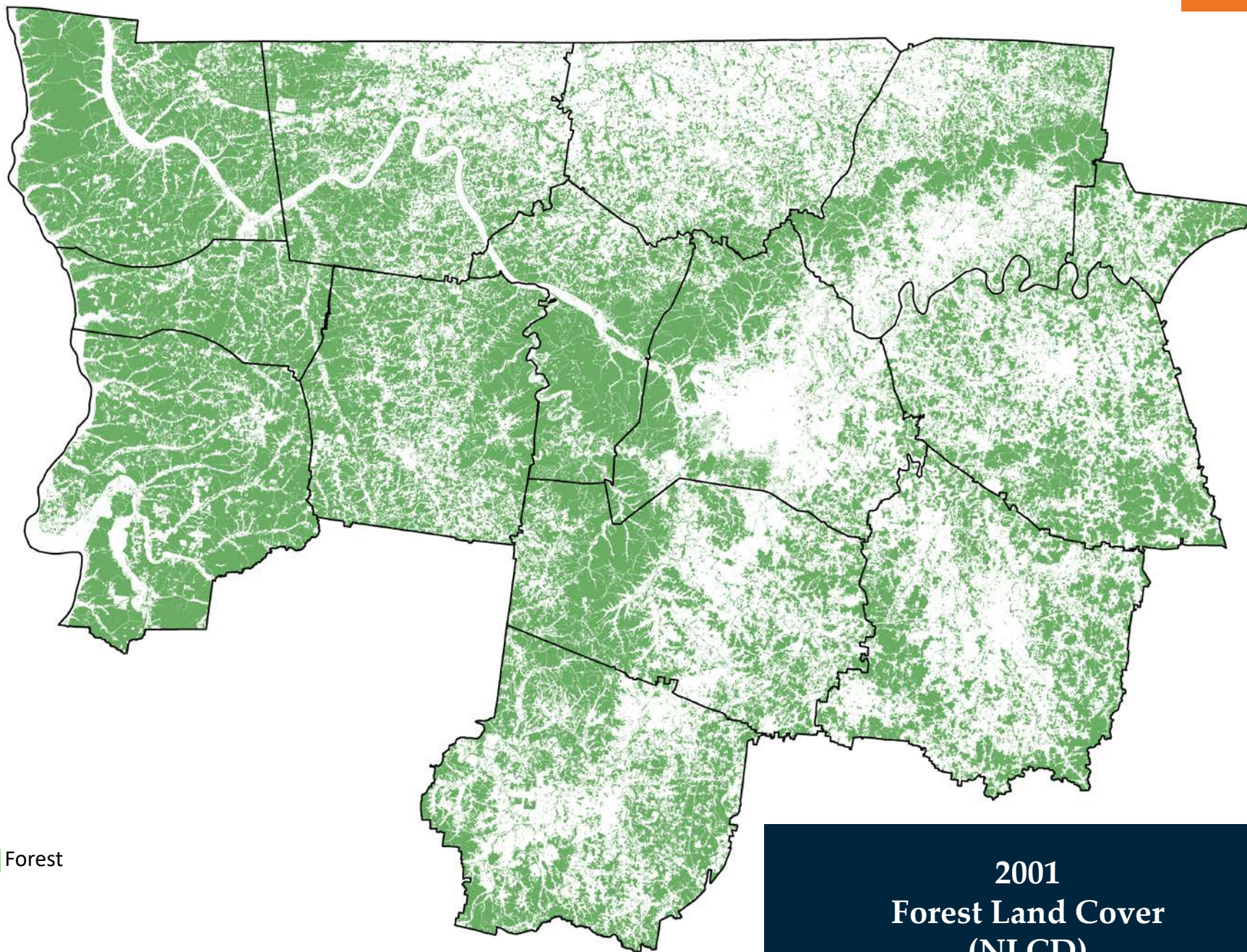


Greater Nashville Regional Council Planning Area

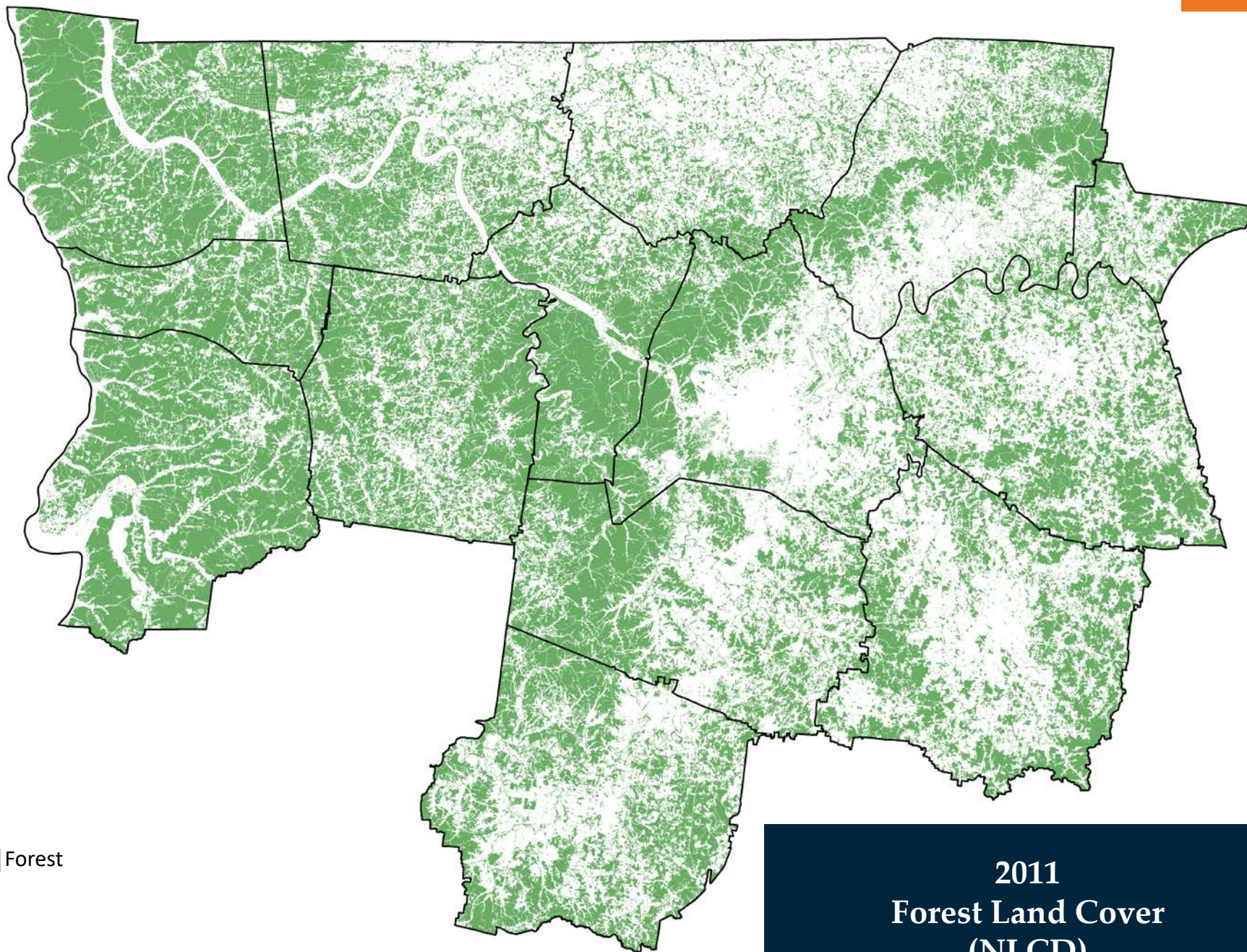


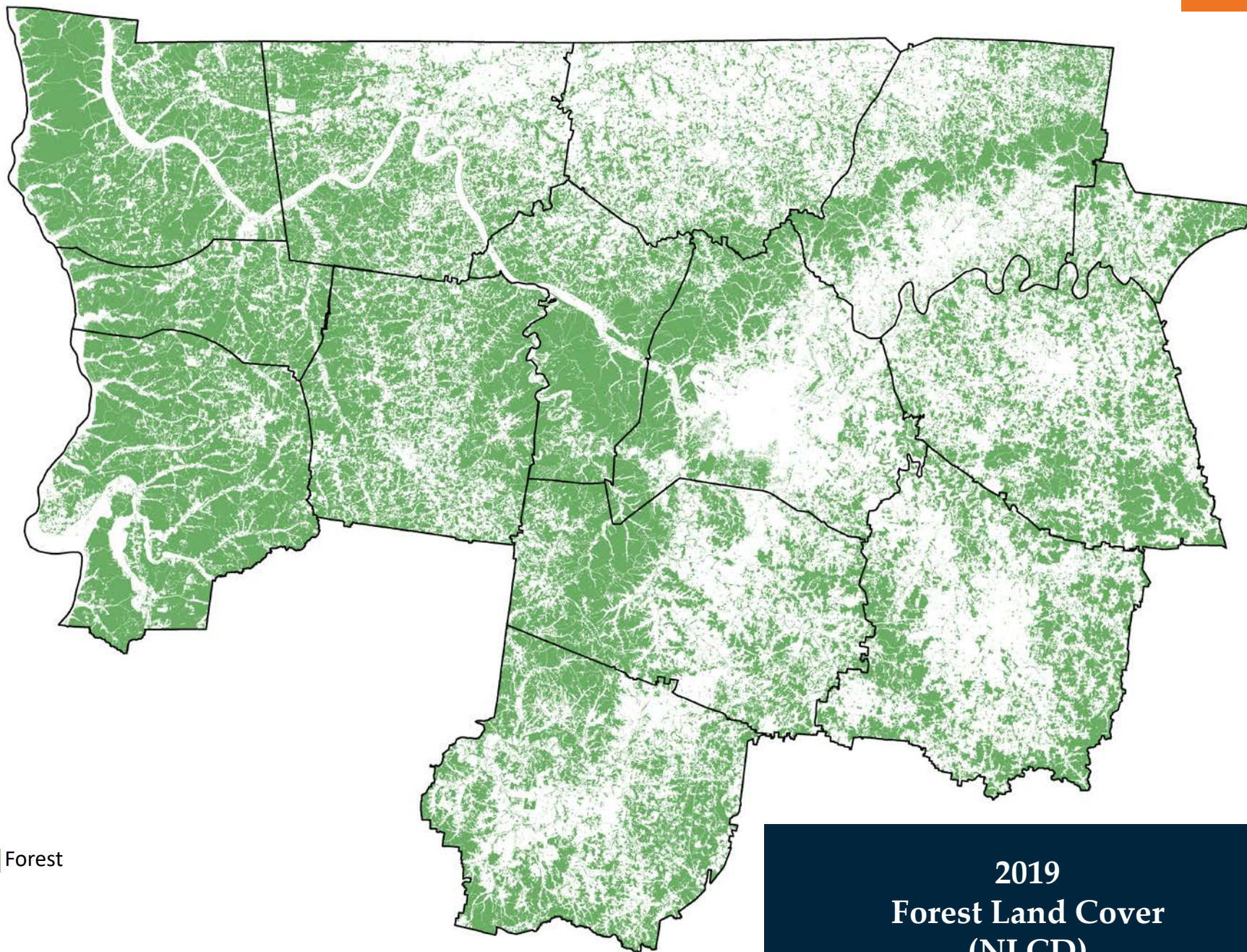






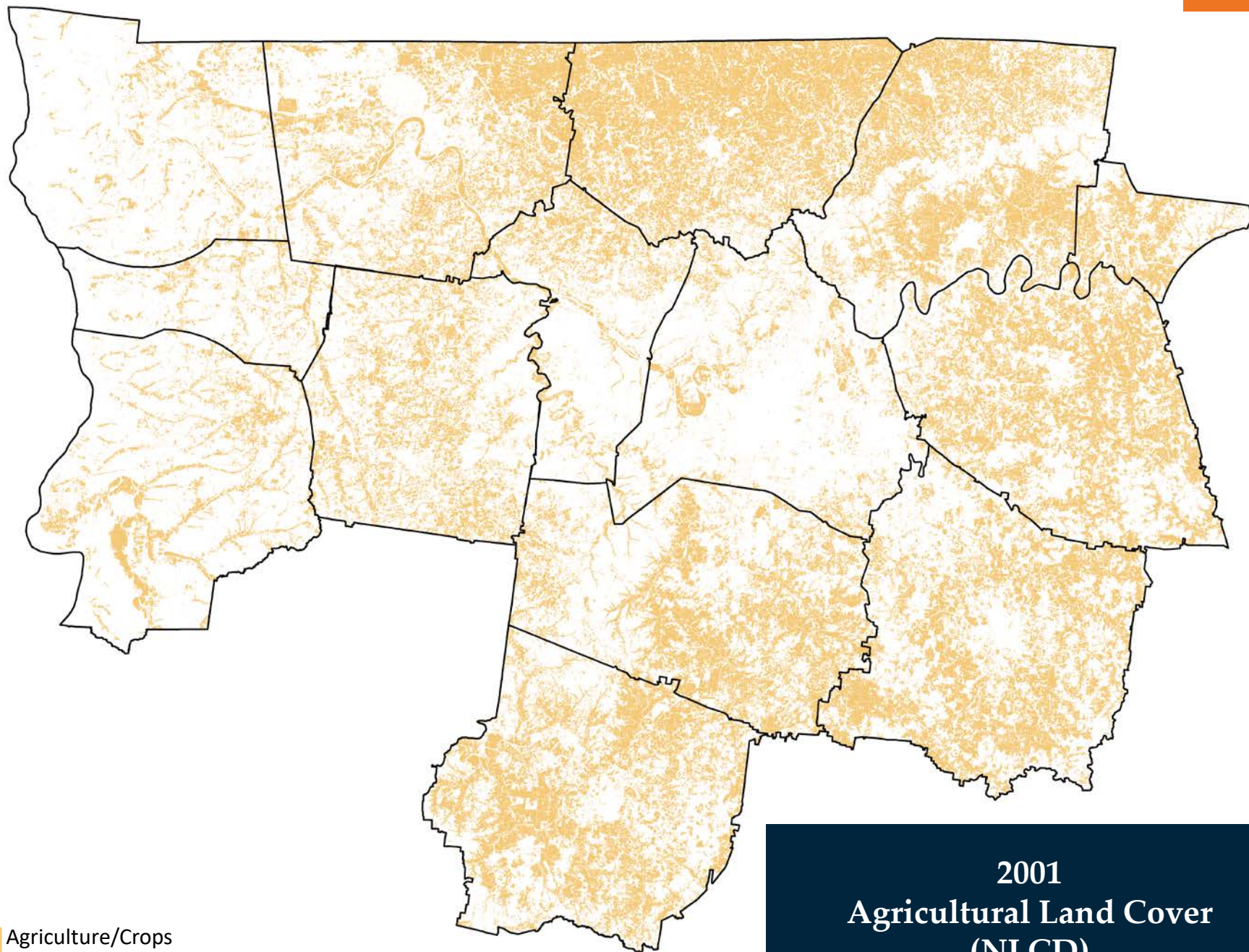
Forest

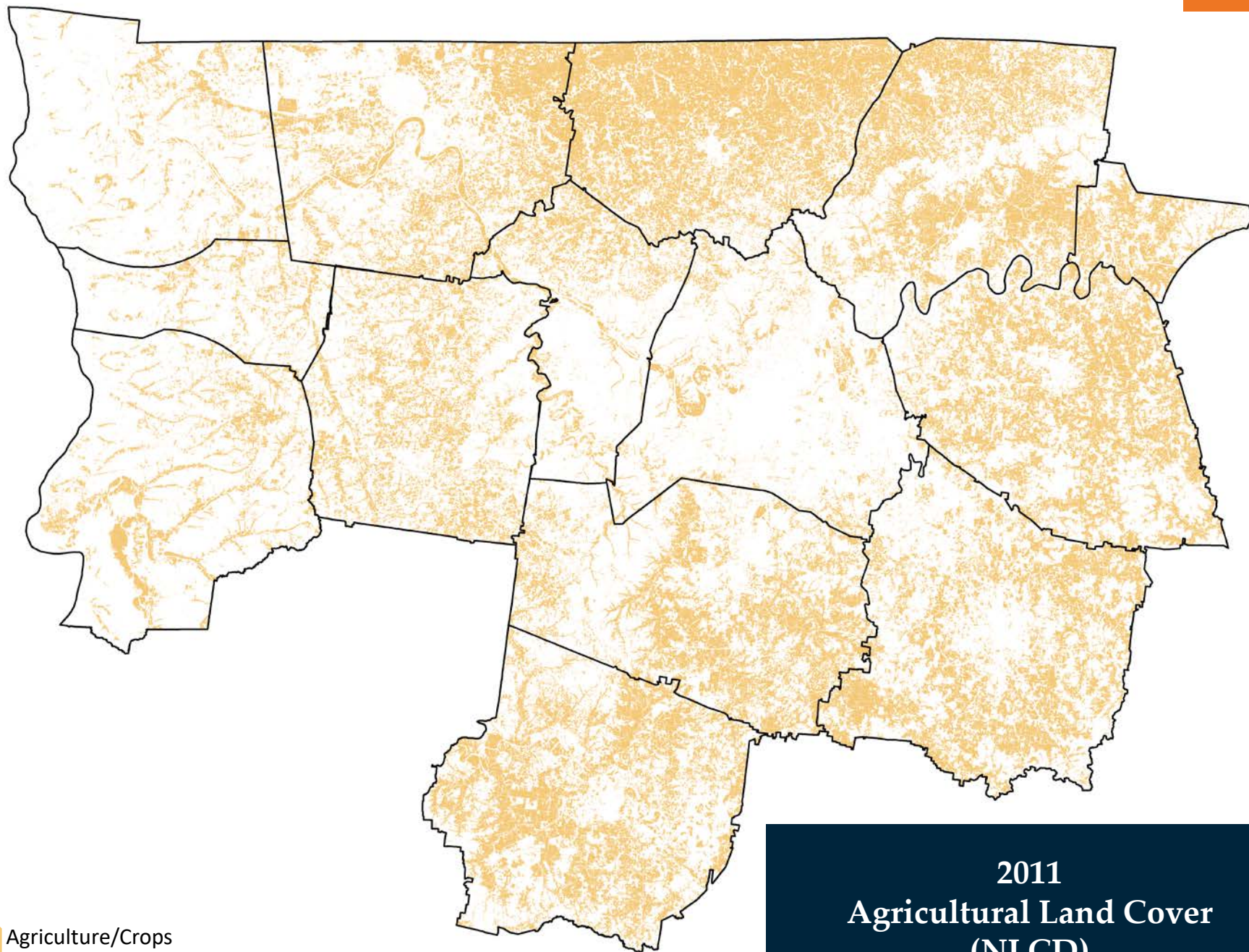


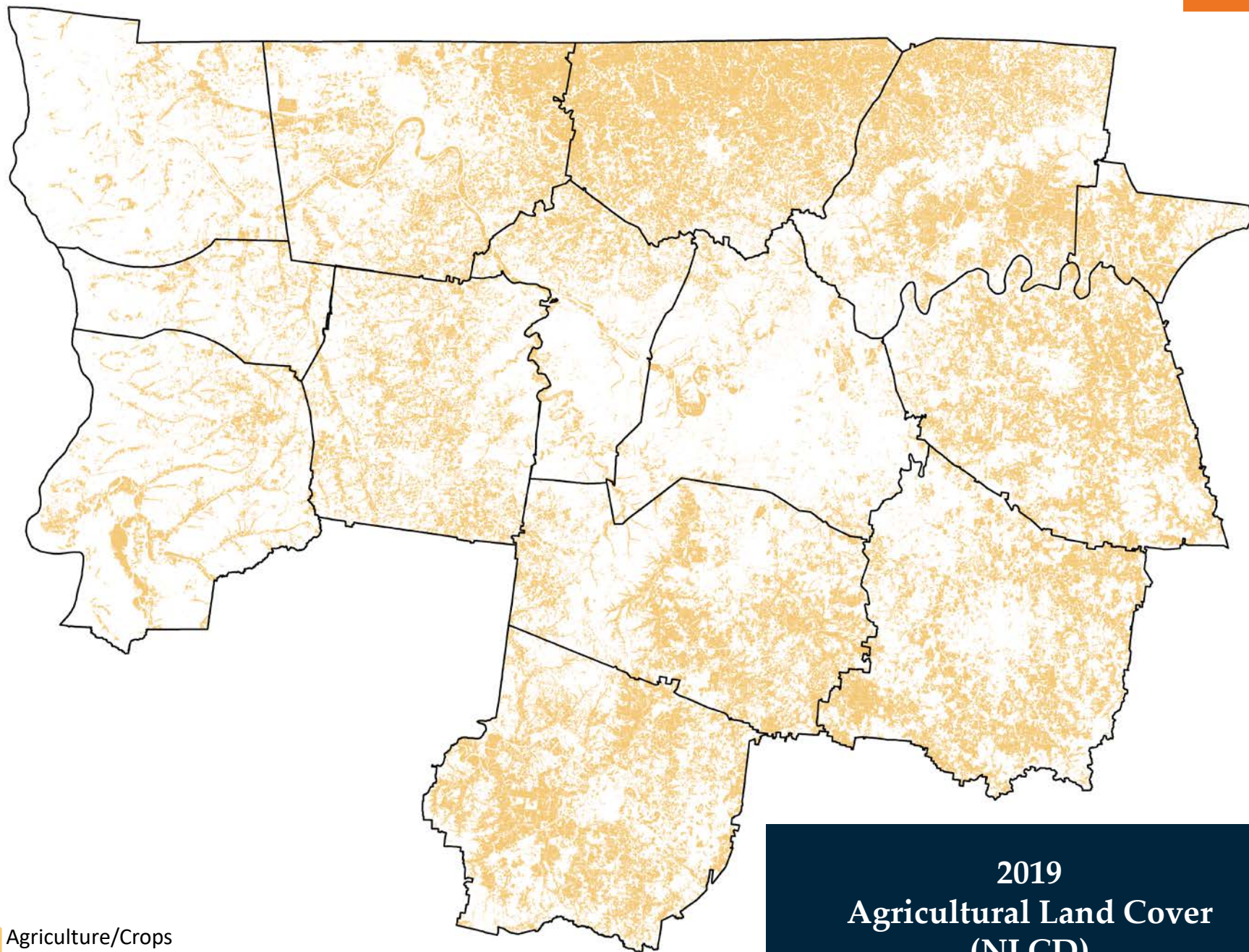


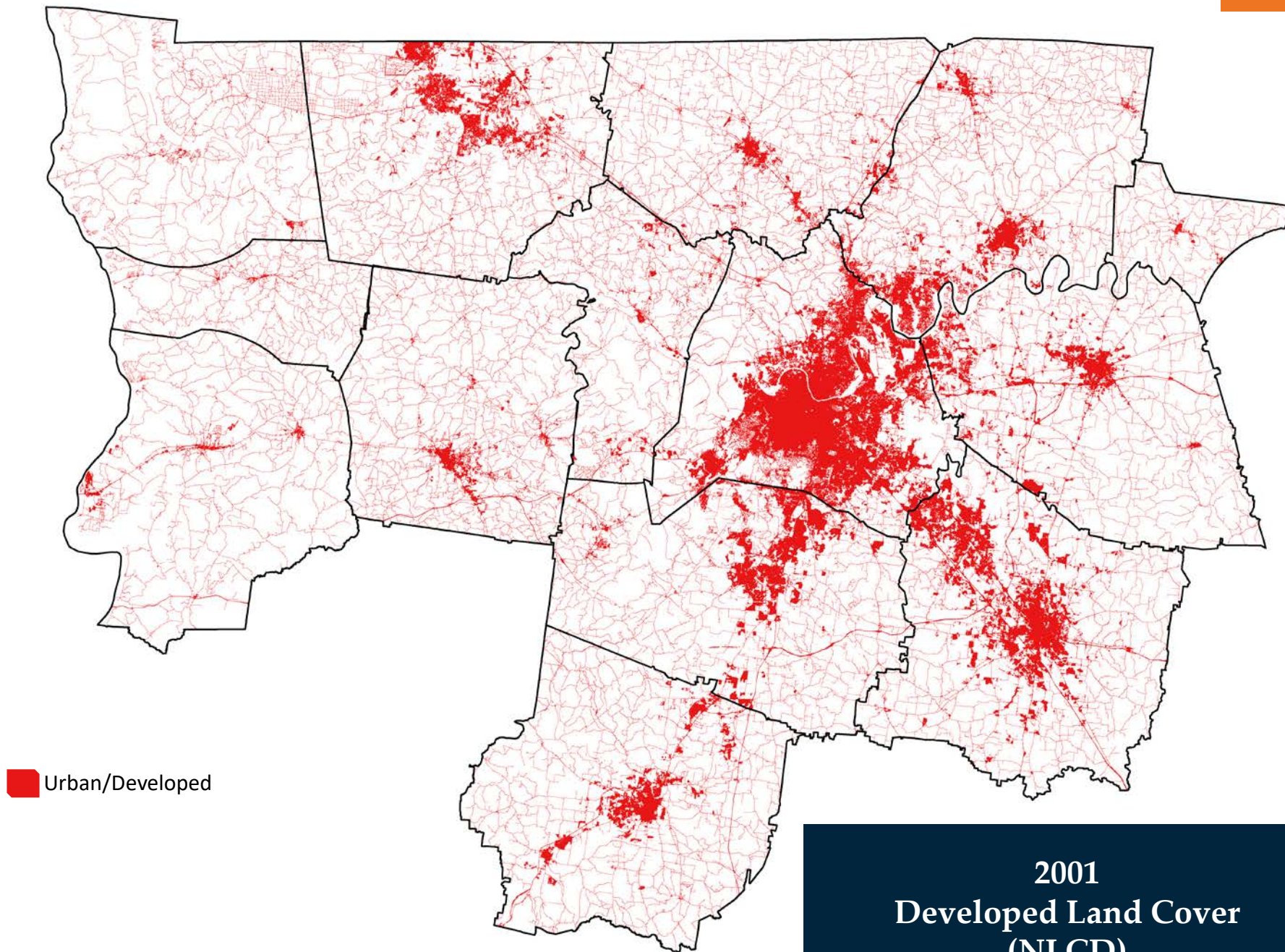
Forest

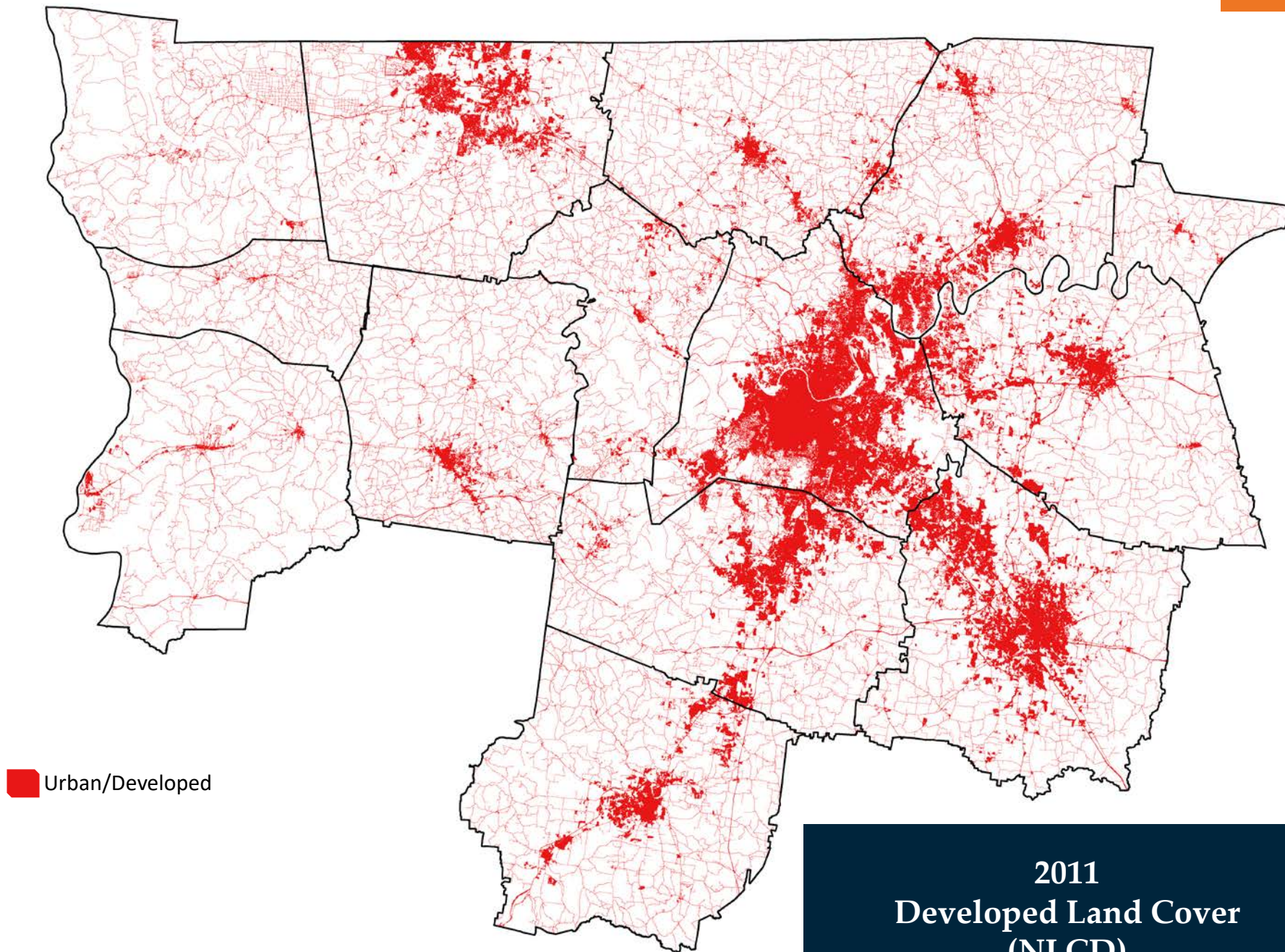
2019
Forest Land Cover
(NLCD)

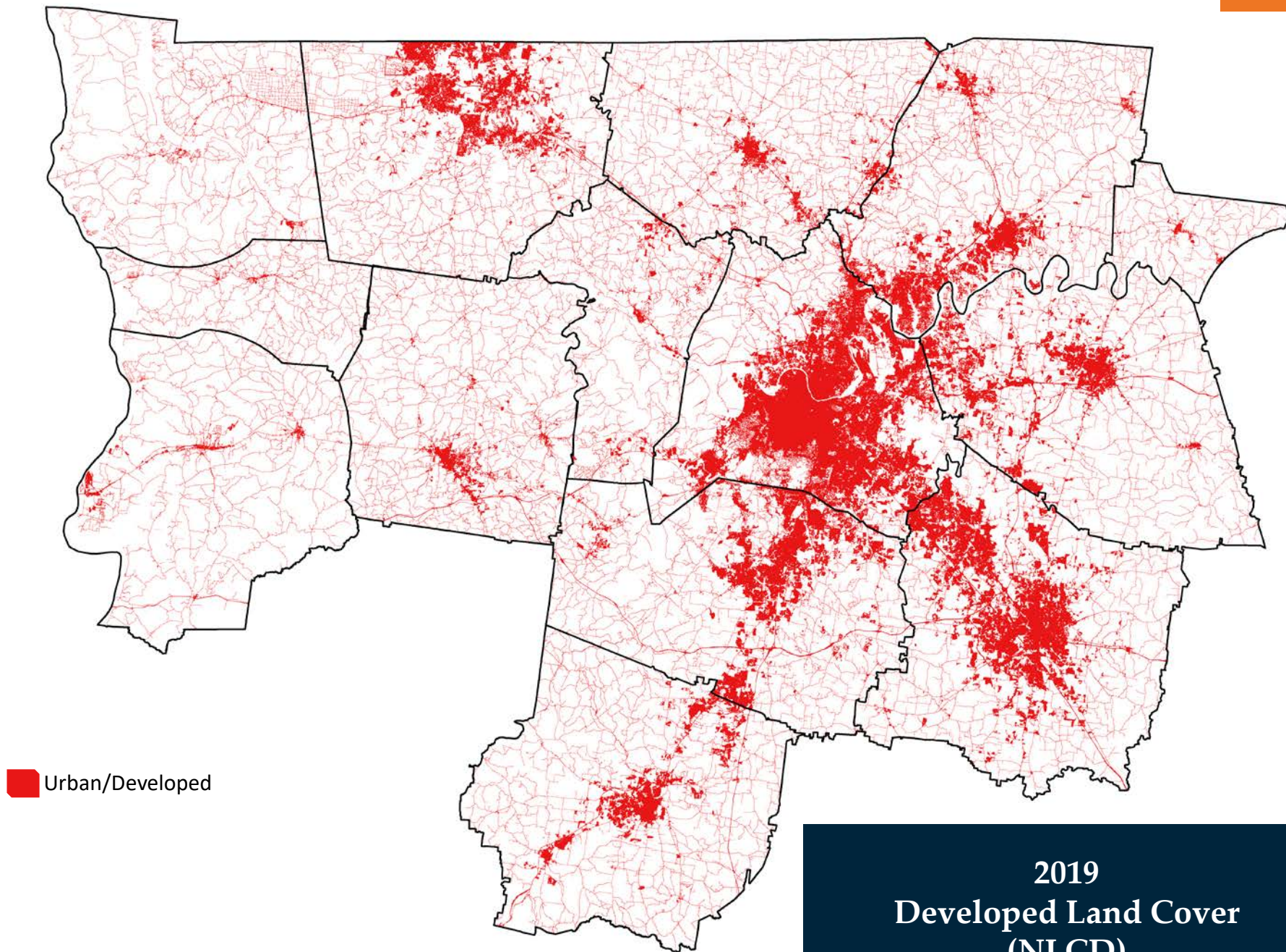




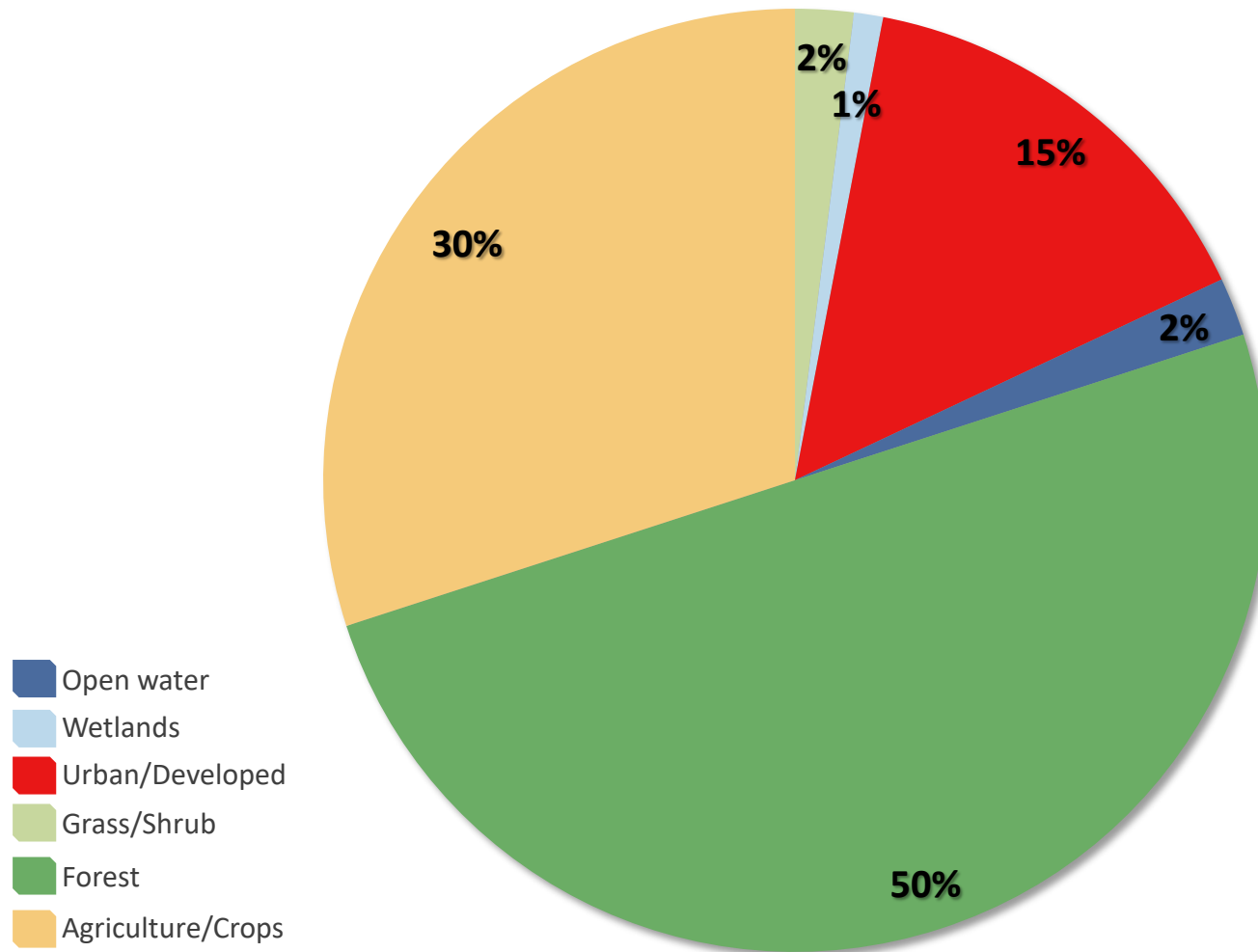








2019 Land Cover



From 2001 to 2019 the GNRC 14-County Area...



Lost over
77,000 acres of
Agricultural
land



Lost over
52,000 acres of
Forest land

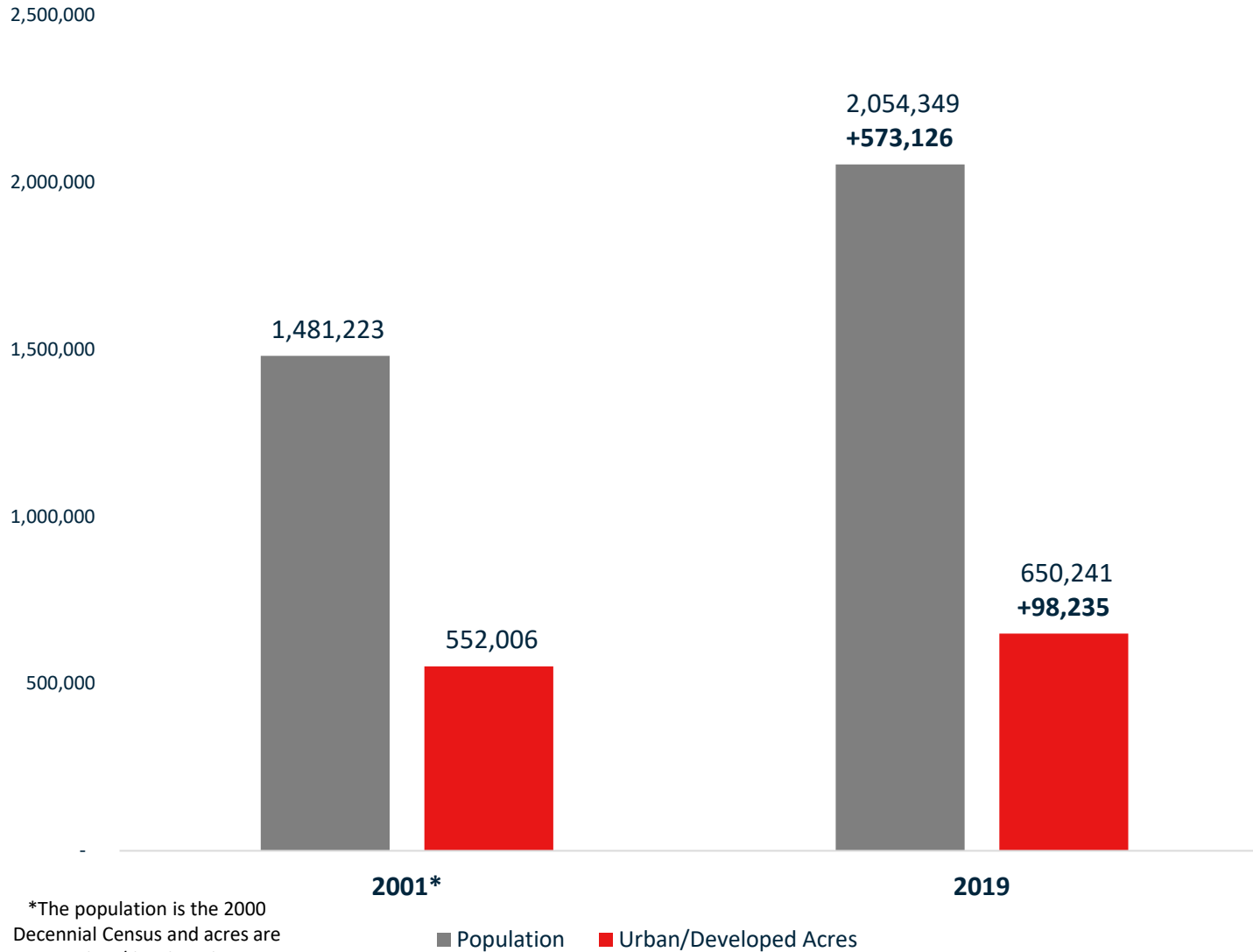


Gained over
30,000 acres of
Grass/Shrub
land



Gained over
98,000 acres of
**Urban/
Developed** land

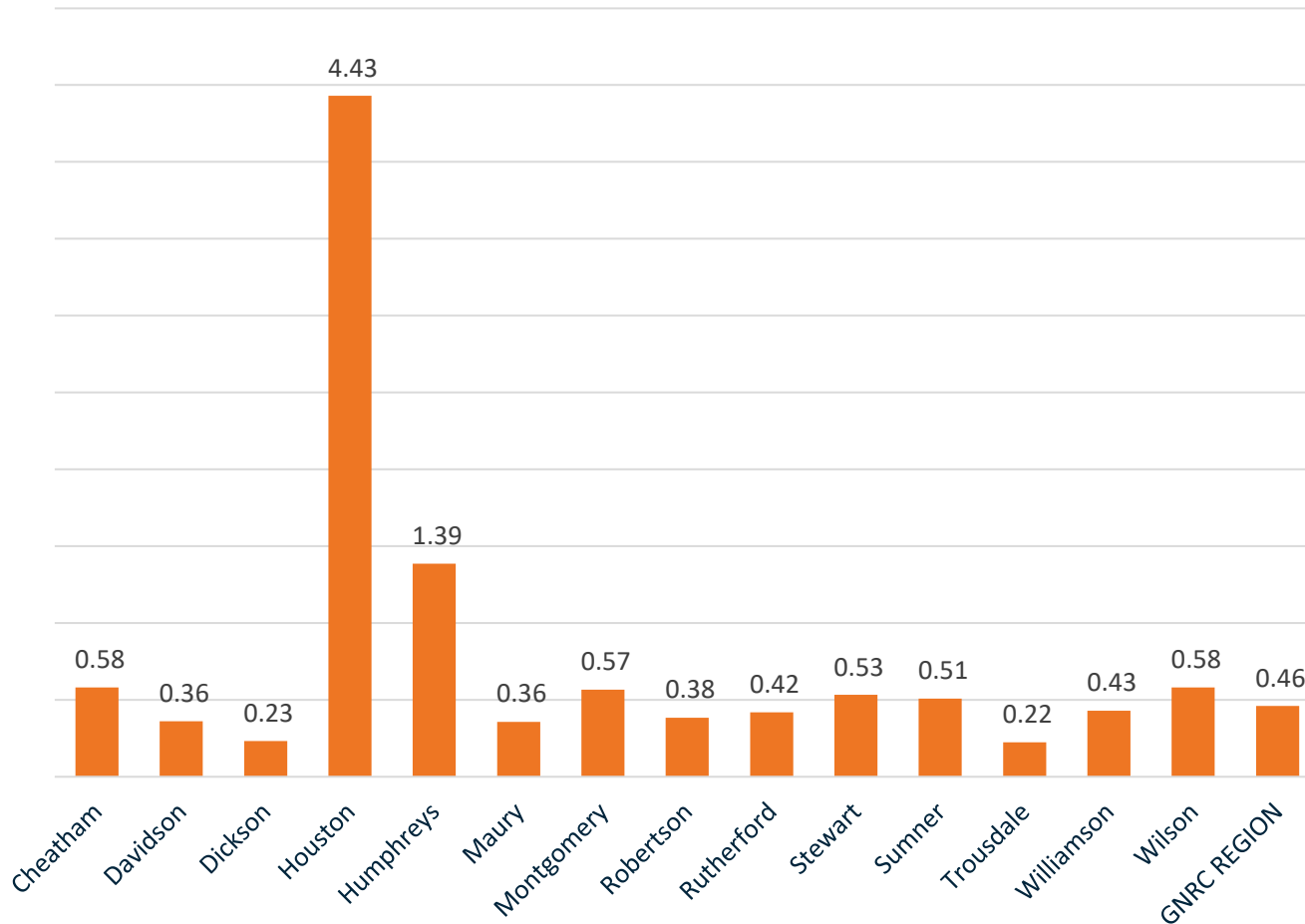
2001-2019 Population vs. Developed Acres



*The population is the 2000 Decennial Census and acres are 2001 urban/developed acres.

The region added 0.2 developed acres per person over the 18-year period, equivalent to over 7,400 square feet or 415 square feet annually.

Ratio of Change in Developed Acres: Change in Population, 2001-2019



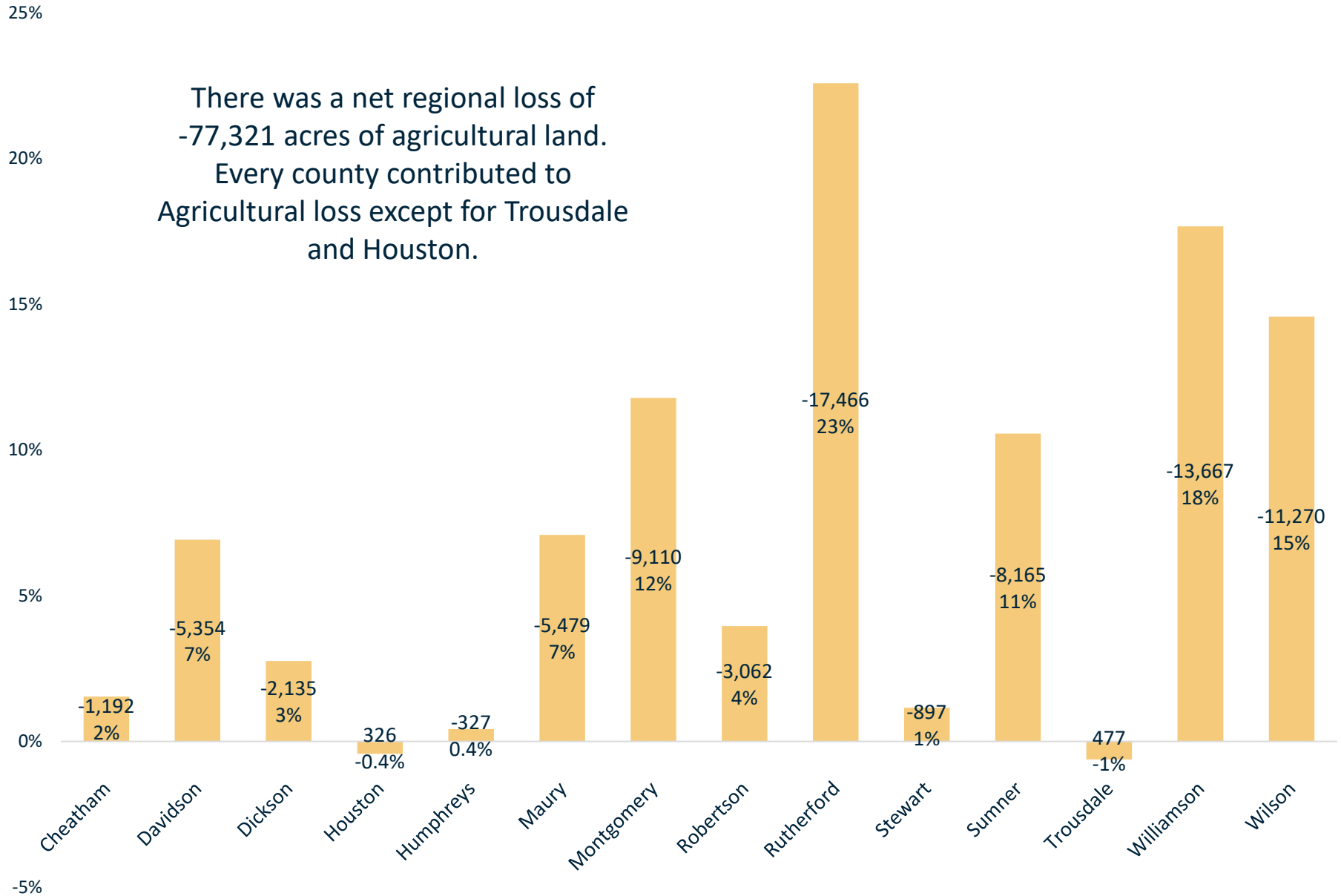
Two counties, Houston and Humphreys, increased developed area at a much faster rate compared to the rate of population growth.

*The population is the 2000 Decennial Census and acres are 2001 urban/developed acres.

Change in Population & Developed Acres by County

County	2000 Population	2001 Developed Acres	2001 Dev. SF/Person	2019 Population	2019 Developed Acres	2019 Dev. SF/Person	SF Added per Person Added
Cheatham	35,912	16,413	19,909	40,181	17,547	19,023	11,571
Davidson	569,891	135,067	10,324	687,488	145,110	9,194	3,720
Dickson	43,156	26,480	26,728	52,680	27,835	23,016	6,198
Houston	8,088	7,972	42,934	8,164	8,304	44,305	190,181
Humphreys	17,929	17,691	42,982	18,435	18,383	43,438	59,580
Maury	69,498	37,966	23,796	91,976	42,354	20,059	8,504
Montgomery	134,768	46,205	14,935	200,180	58,908	12,819	8,459
Robertson	54,433	28,163	22,537	70,280	31,313	19,408	8,658
Rutherford	182,023	72,936	17,454	315,815	95,358	13,153	7,300
Stewart	12,370	15,011	52,862	13,427	15,694	50,914	28,128
Sumner	130,449	48,234	16,106	183,437	58,176	13,815	8,174
Trousdale	7,259	4,685	28,115	10,231	5,115	21,778	6,301
Williamson	126,638	53,186	18,295	225,389	71,012	13,724	7,863
Wilson	88,809	41,987	20,594	136,666	55,122	17,569	11,955
GNRC REGION	1,481,223	552,006	16,233	2,054,349	650,241	13,788	7,466

2001-2019 Regional Share of Agricultural Land Cover Change by County



2001-2019 Regional Share of Forest Land Cover Change by County

20%

There was a net regional loss of -52,817 acres of forest land. Every county contributed to regional forest loss except for Humphreys.

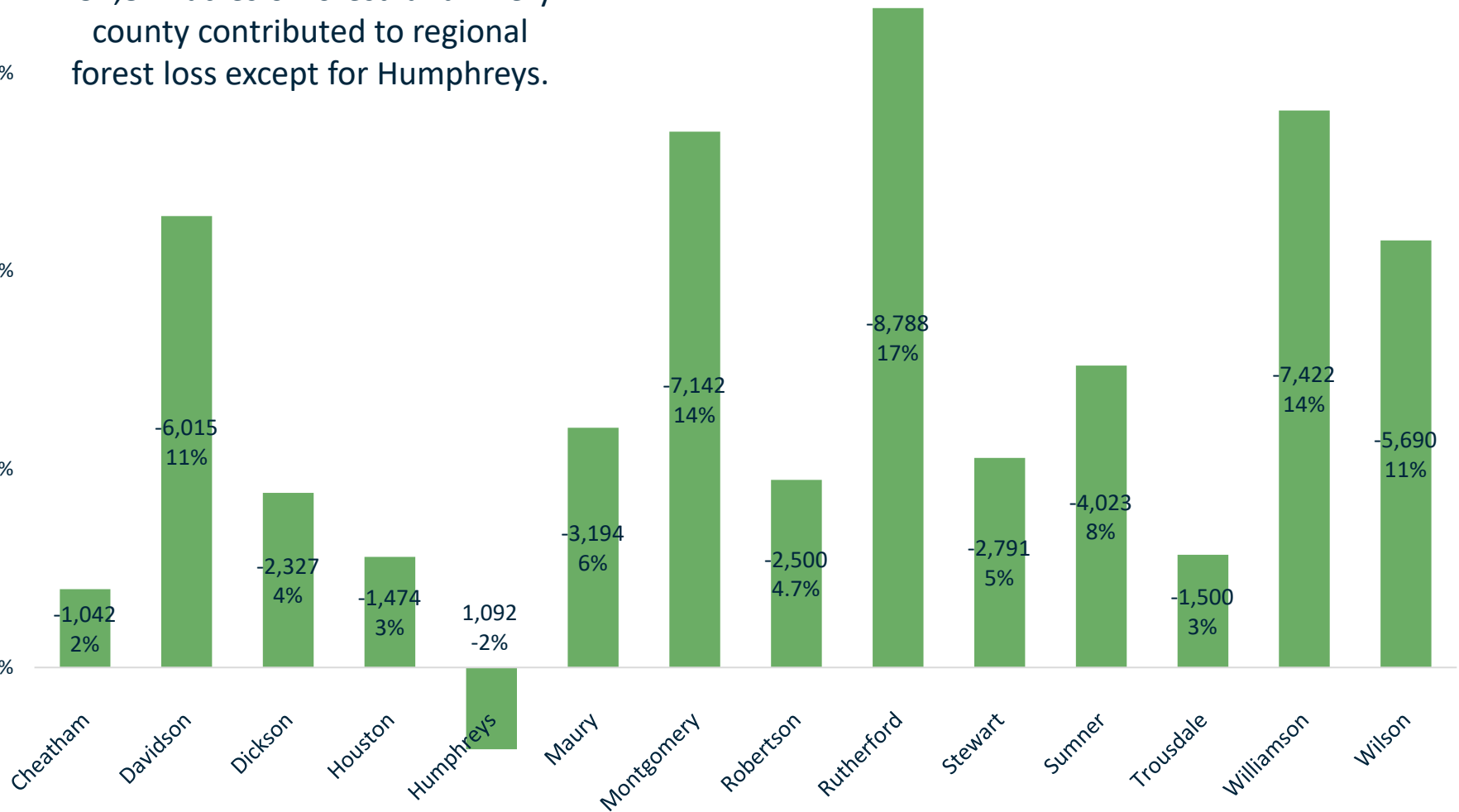
15%

10%

5%

0%

-5%



2001-2019 Regional Share of Grass/Shrub Land Cover Change by County

19%

There was a net regional gain of +30,671 acres of forest land. Every county contributed to regional grass/shrub gain except for Humphreys.

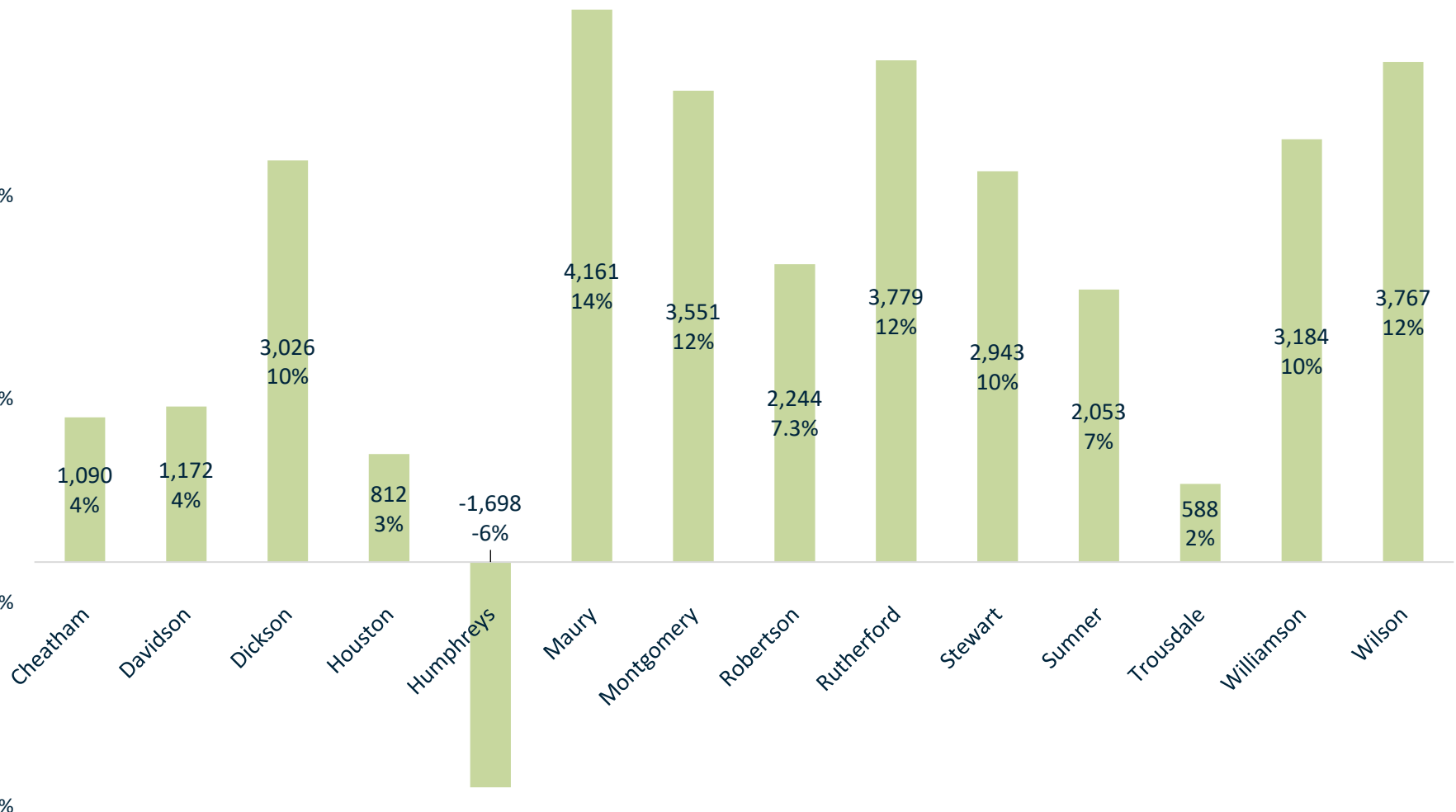
14%

9%

4%

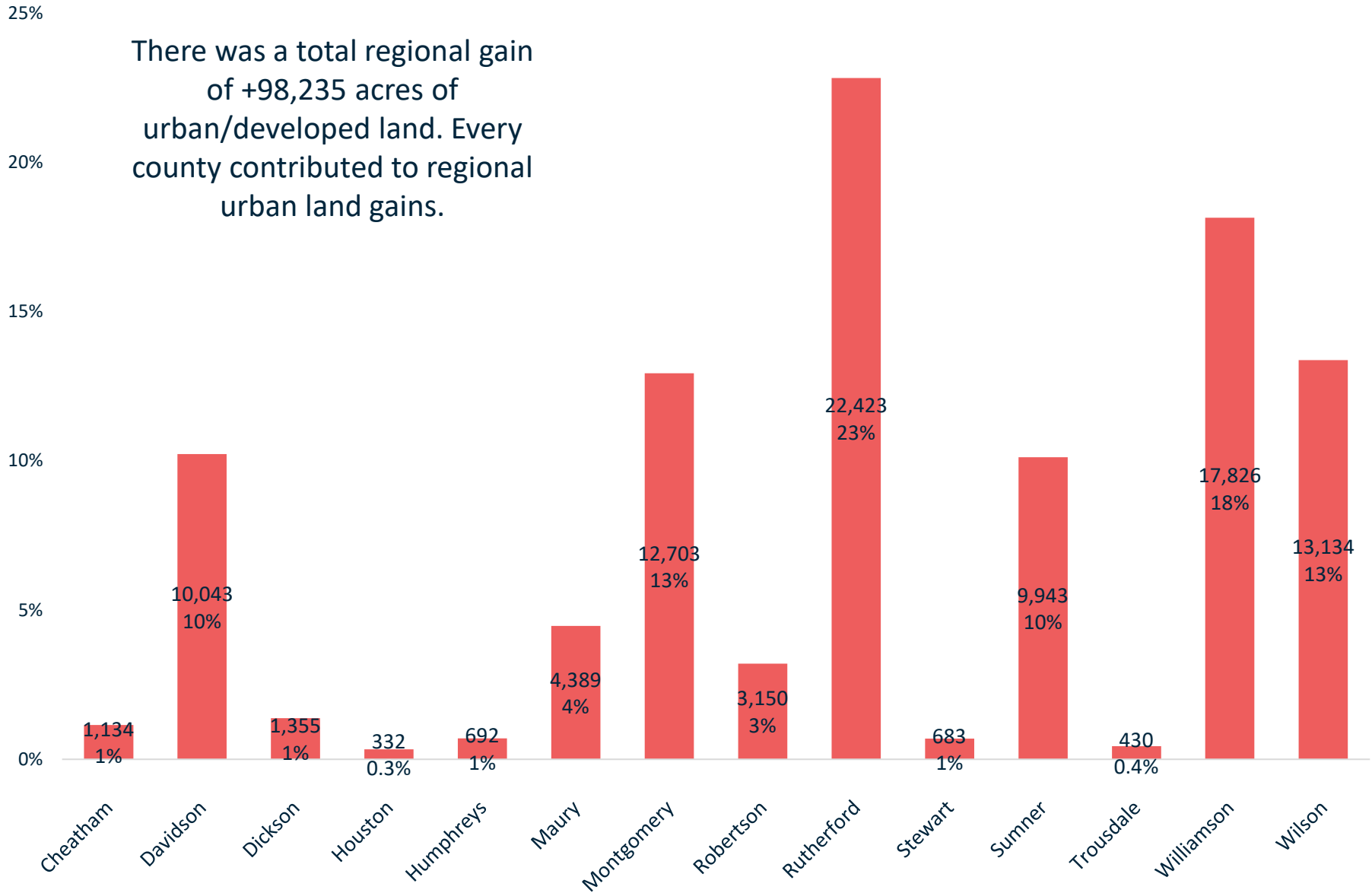
-1%

-6%



2001-2019 Regional Share of Urban/Developed Land Cover Change by County

There was a total regional gain of +98,235 acres of urban/developed land. Every county contributed to regional urban land gains.

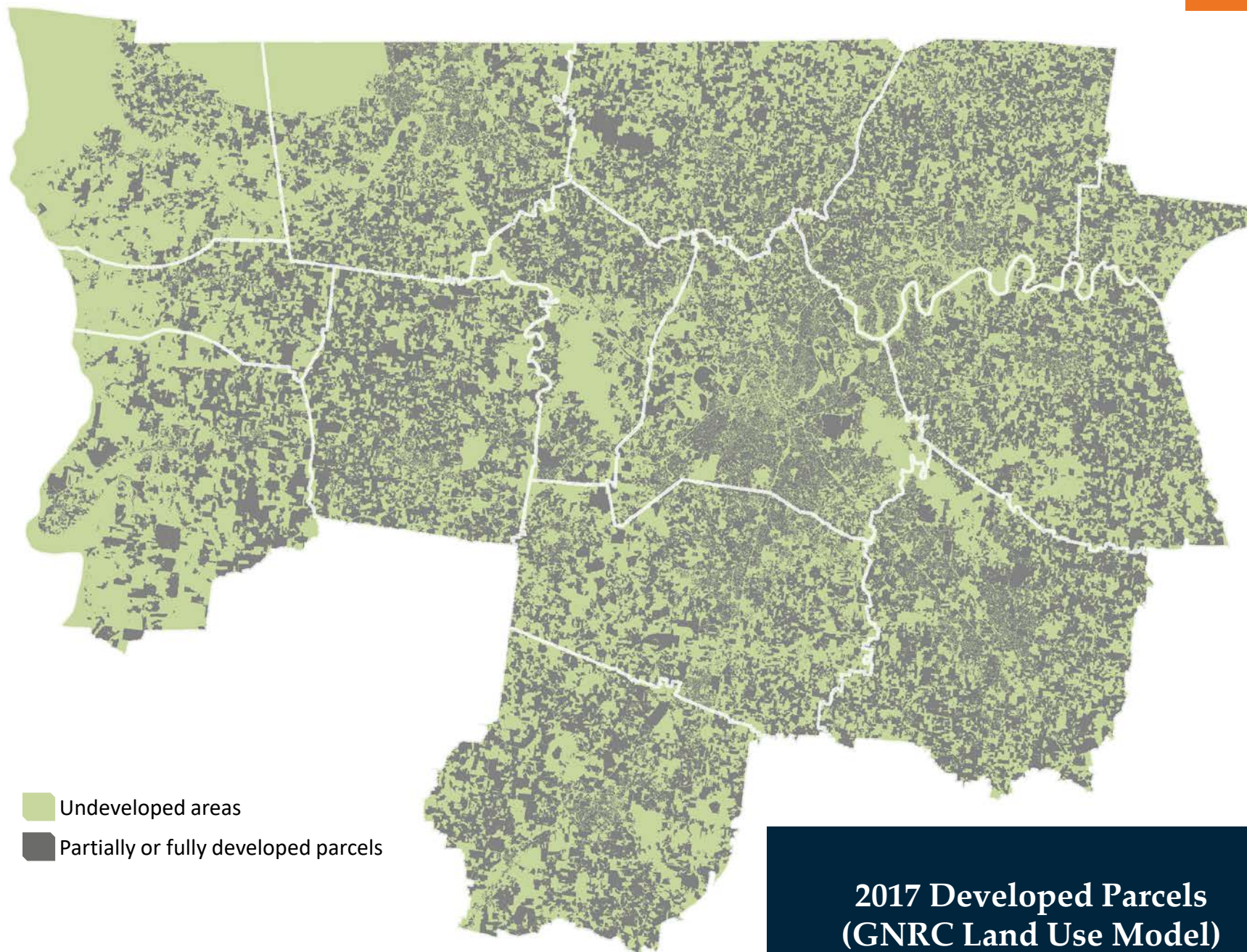


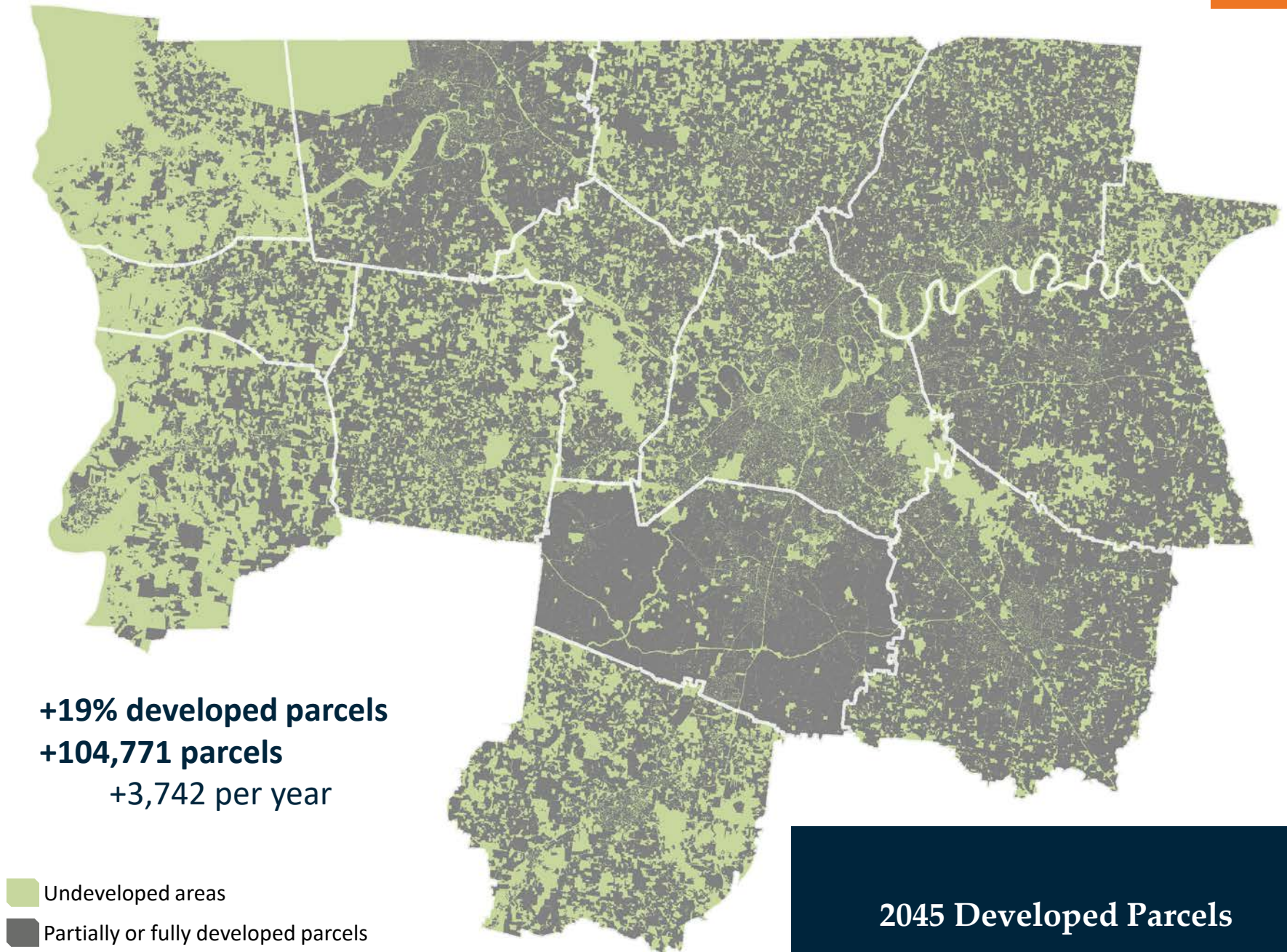
Change in Land Cover Acres by County: 2001 to 2019

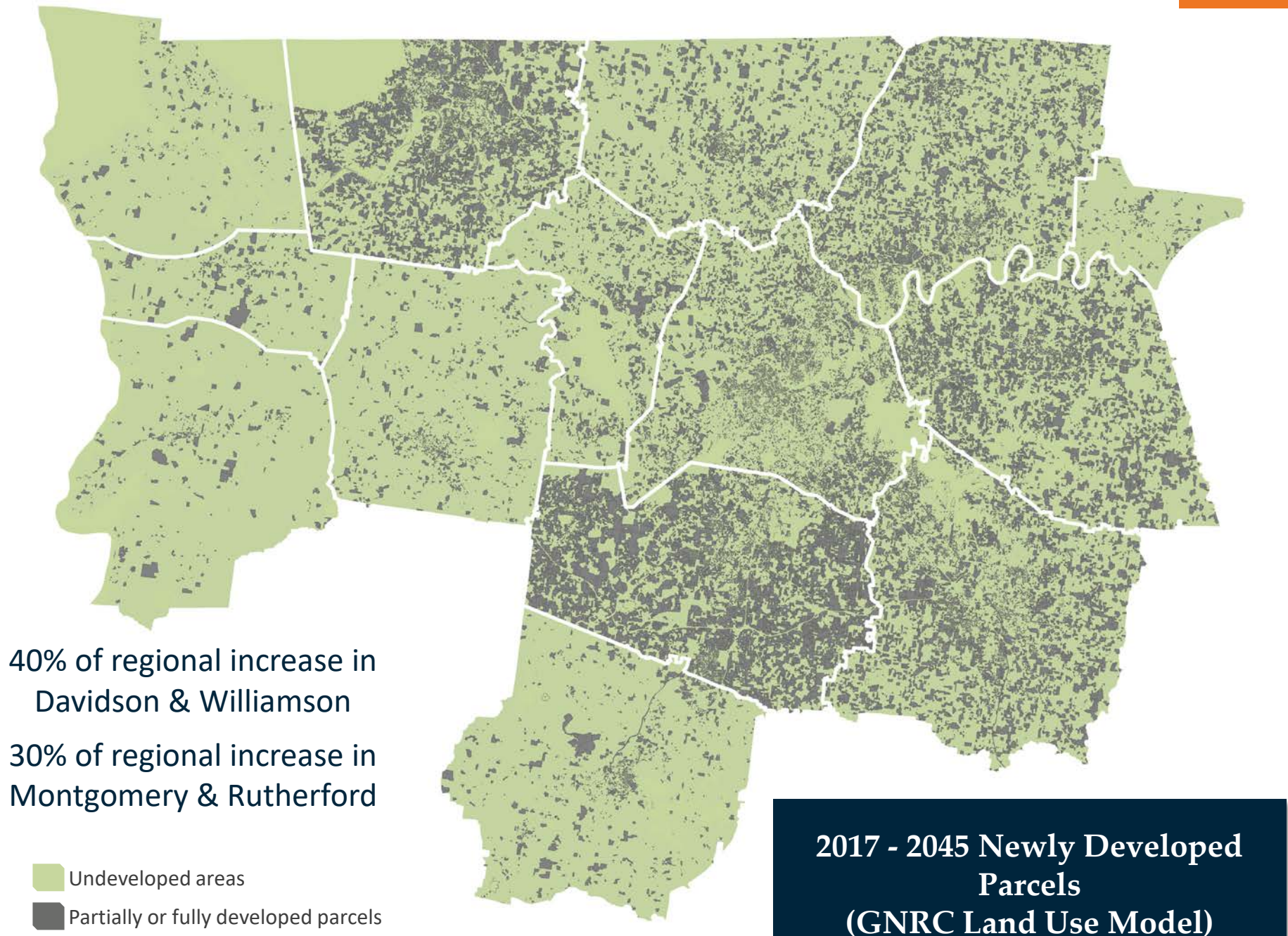
County	Forest	Agriculture	Grass/Shrub	Barren	Urban/developed	Open Water	Wetlands
Cheatham	-1,042	-1,192	+1,090	+22	+1,134	-53	+42
Davidson	-6,015	-5,354	+1,172	+256	+10,043	-179	+79
Dickson	-2,327	-2,135	+3,026	+46	+1,355	+8	+26
Houston	-1,474	+326	+812	+1	+332	+75	-71
Humphreys	1,092	-327	-1,698	-36	+692	+38	+240
Maury	-3,194	-5,479	+4,161	+39	+4,389	+62	+22
Montgomery	-7,142	-9,110	+3,551	-24	+12,703	+36	-13
Robertson	-2,500	-3,062	+2,244	+75	+3,150	+92	+1
Rutherford	-8,788	-17,466	+3,779	+105	+22,423	-138	+86
Stewart	-2,791	-897	+2,943	+39	+683	-73	+96
Sumner	-4,023	-8,165	+2,053	+231	+9,943	-111	+73
Trousdale	-1,500	+477	+588	+1	+430	-3	+7
Williamson	-7,422	-13,667	+3,184	+40	+17,826	+35	+4
Wilson	-5,690	-11,270	+3,767	+49	+13,134	-25	+35
GNRC REGION	-52,817	-77,321	+30,671	+841	+98,235	-236	+626

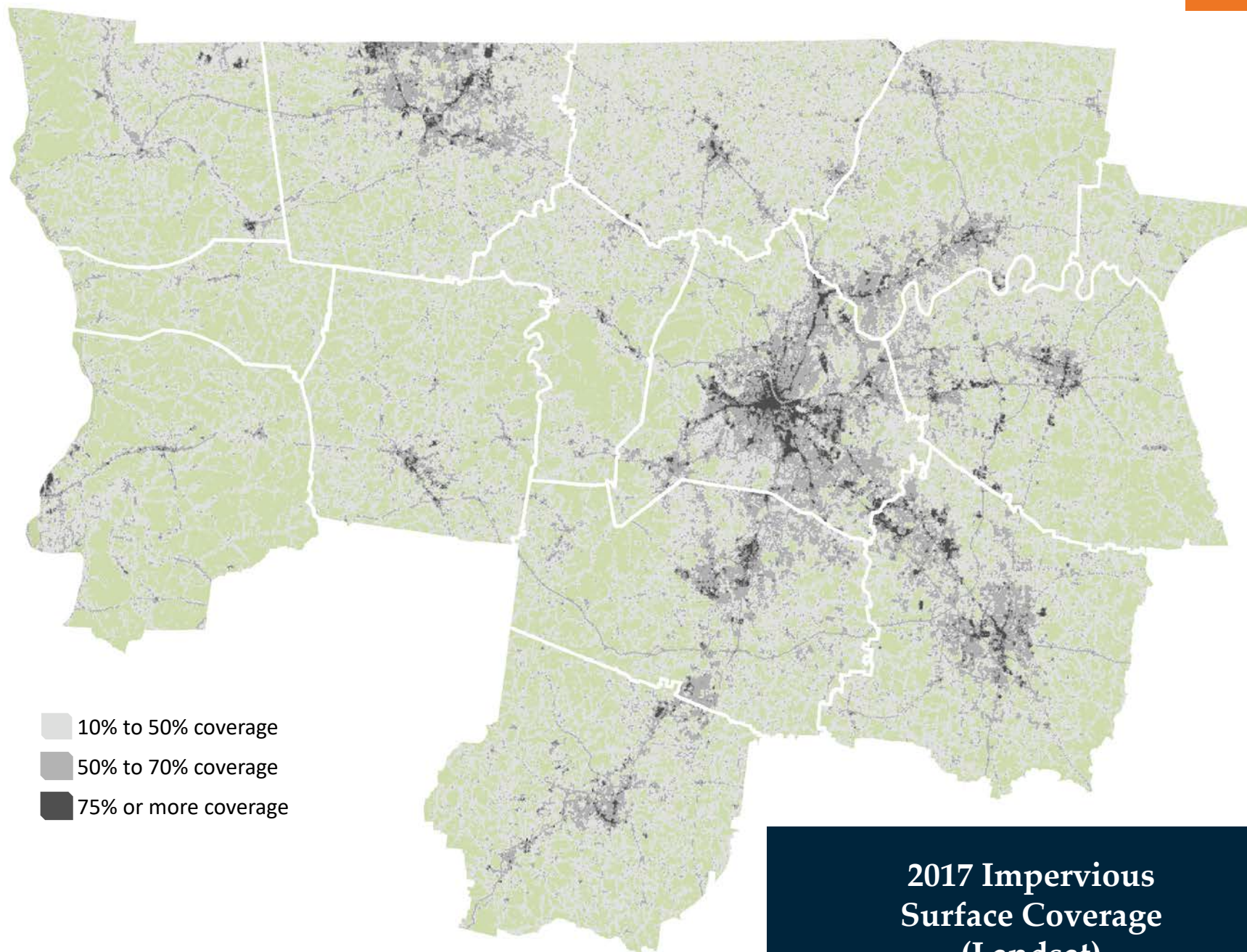
% Change in Land Cover Acres by County: 2001 to 2019

County	Forest	Agriculture	Grass/Shrub	Barren	Urban/developed	Open Water	Wetlands
Cheatham	-1%	-3%	+82%	+26%	+7%	-2%	+1%
Davidson	-4%	-12%	+82%	+46%	+7%	-1%	+9%
Dickson	-1%	-2%	+123%	+25%	+5%	+1%	+3%
Houston	-2%	+2%	+22%	+3%	+4%	+2%	-7%
Humphreys	0%	-1%	-12%	-10%	+4%	0%	+2%
Maury	-2%	-3%	+288%	+8%	+12%	+3%	+2%
Montgomery	-4%	-7%	+126%	-4%	+27%	+1%	0%
Robertson	-3%	-2%	+347%	+33%	+11%	+15%	0%
Rutherford	-5%	-11%	+218%	+10%	+31%	-2%	+11%
Stewart	-1%	-3%	+31%	+14%	+5%	0%	+1%
Sumner	-3%	-6%	+197%	+88%	+21%	-1%	+14%
Trousdale	-4%	+2%	+172%	+6%	+9%	0%	+4%
Williamson	-4%	-10%	+309%	+12%	+34%	+7%	+2%
Wilson	-3%	-7%	+303%	+9%	+31%	0%	+6%
GNRC REGION	-2%	-6%	+72%	+17%	+18%	0%	+2%

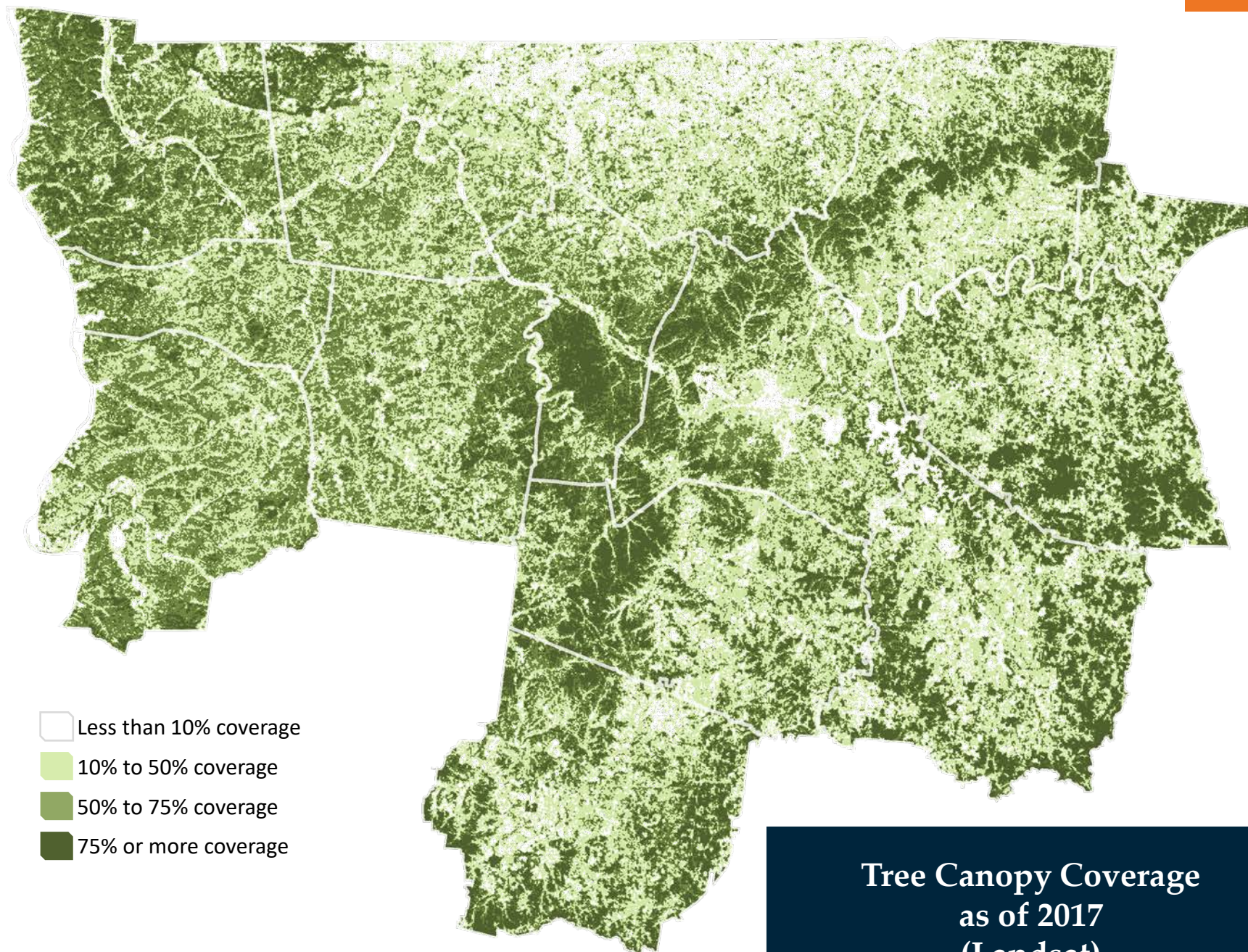


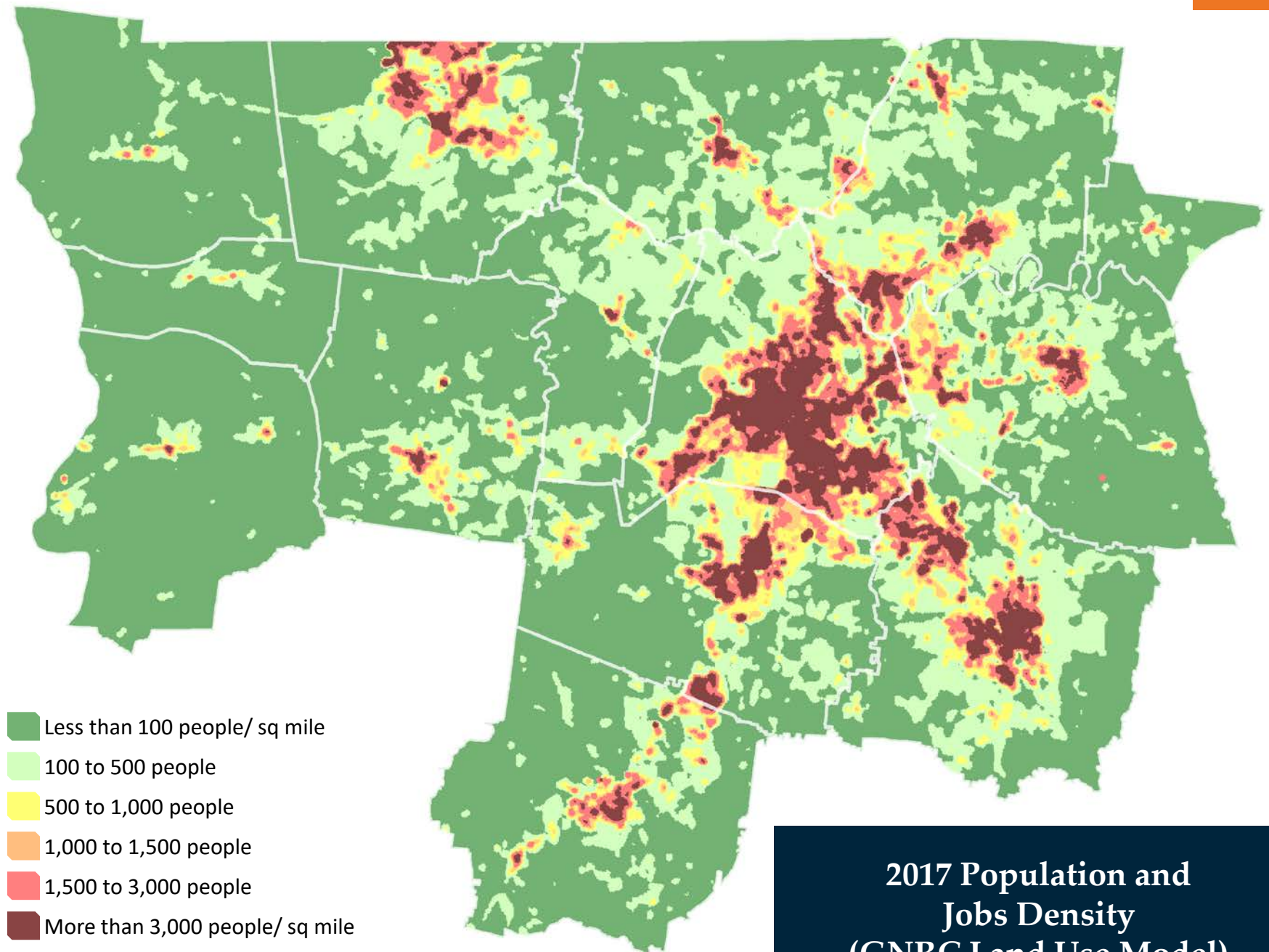


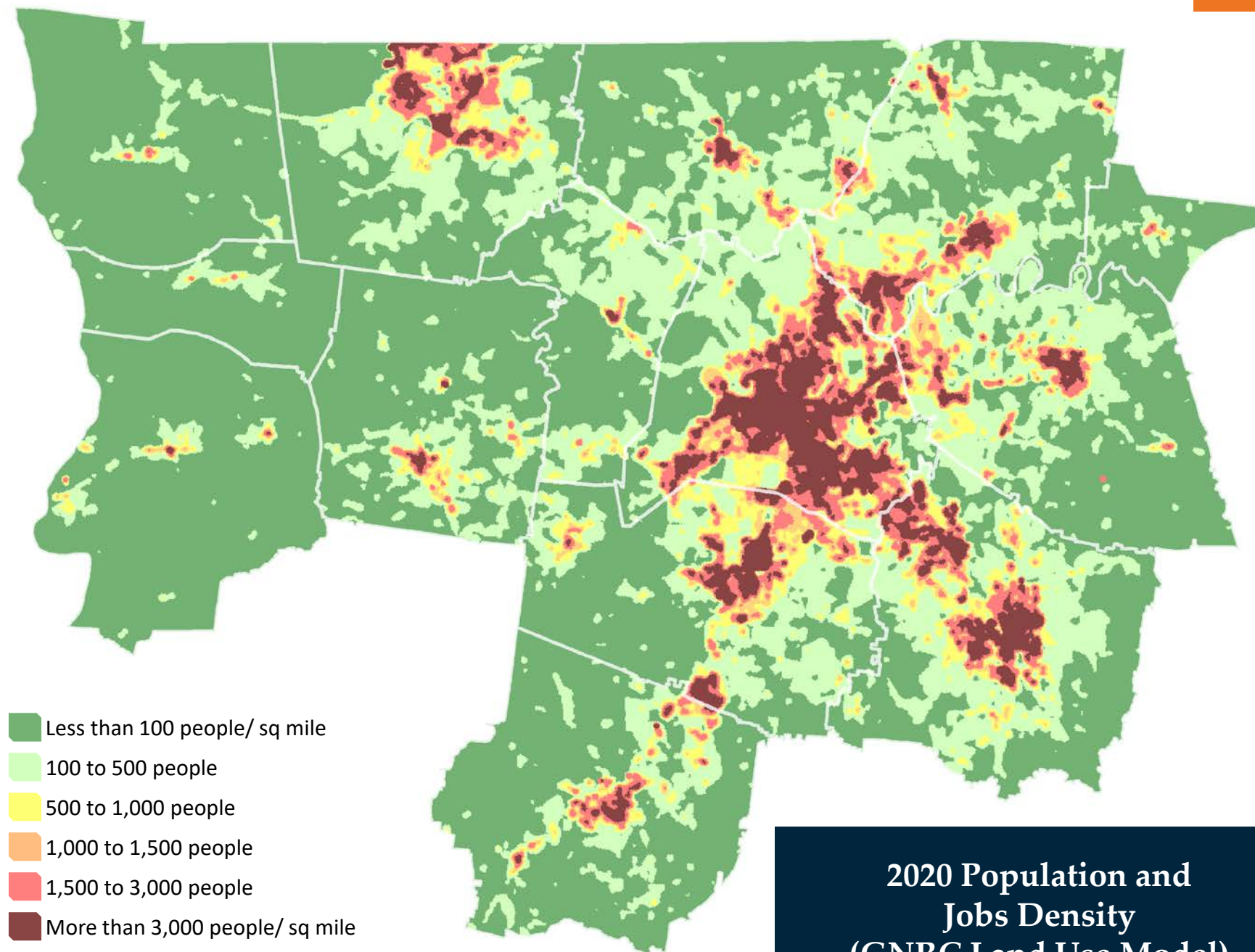


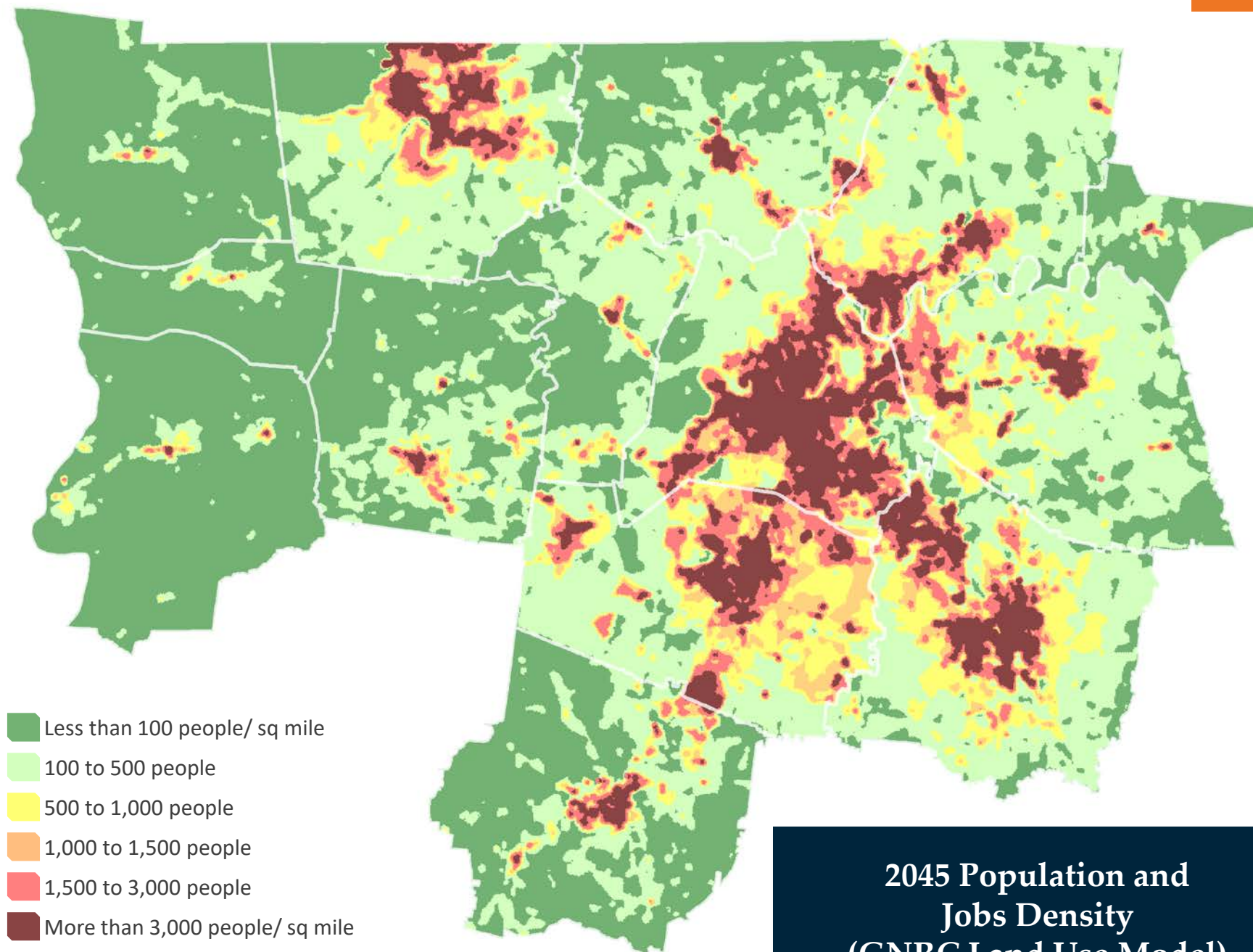


**2017 Impervious
Surface Coverage
(Landsat)**

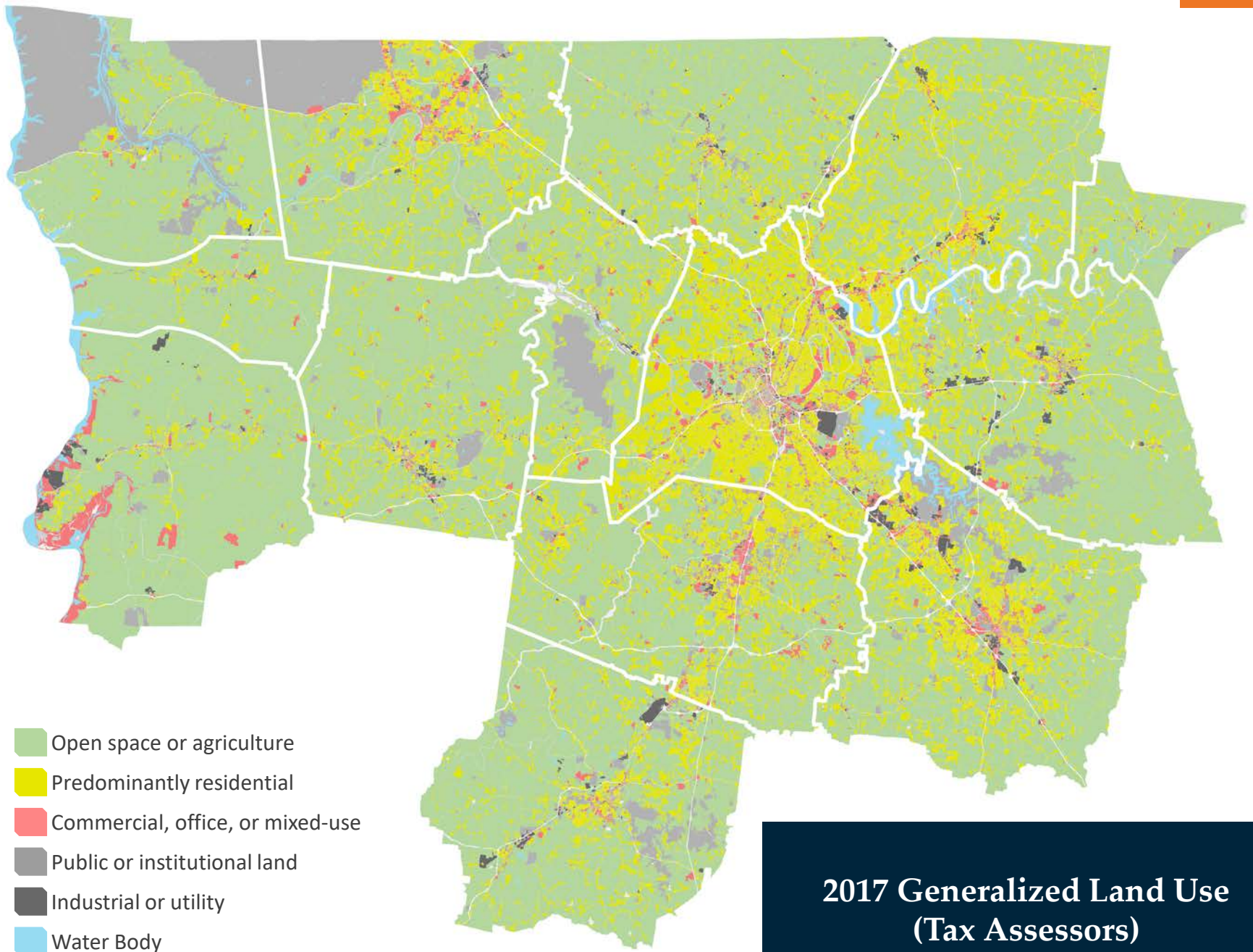


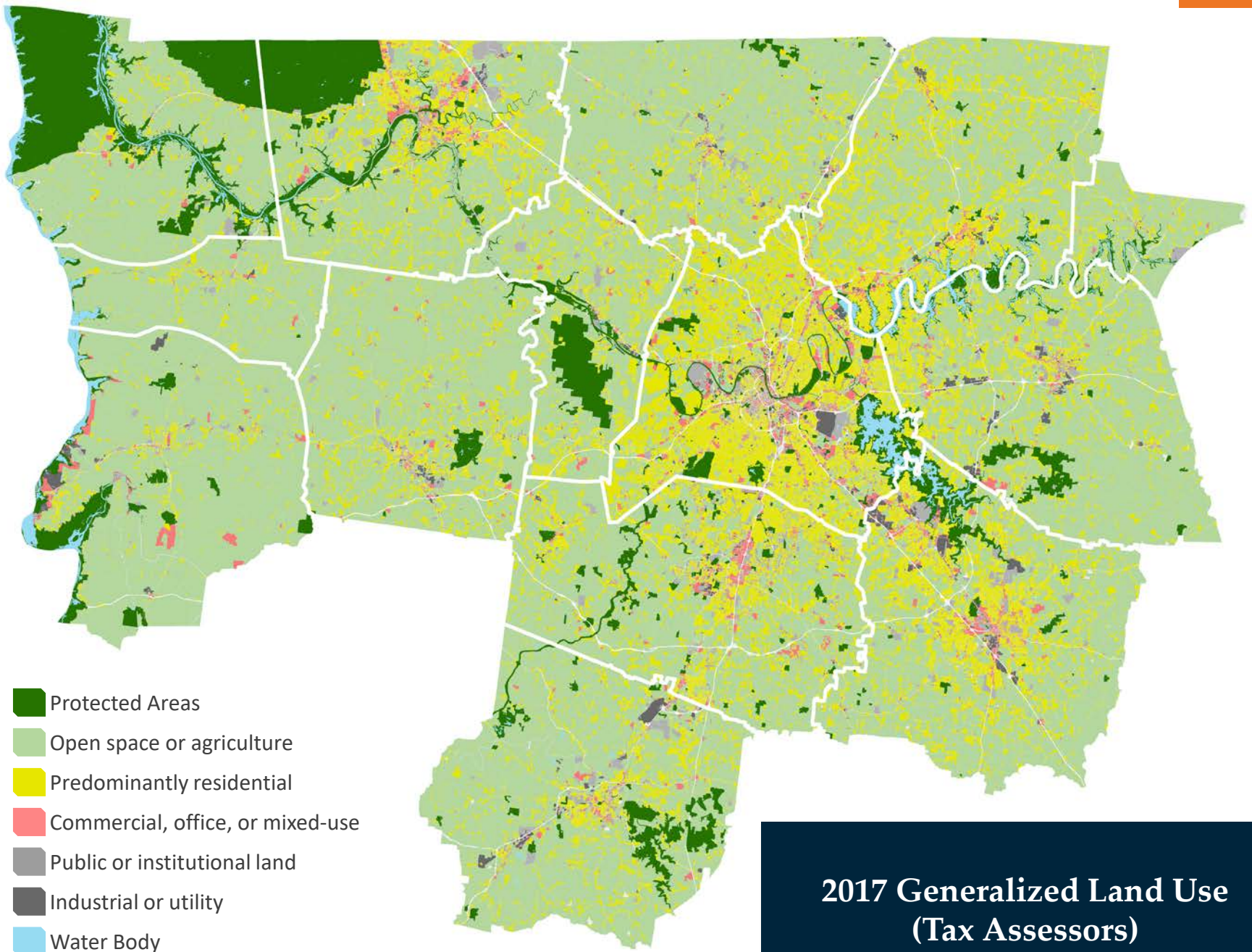


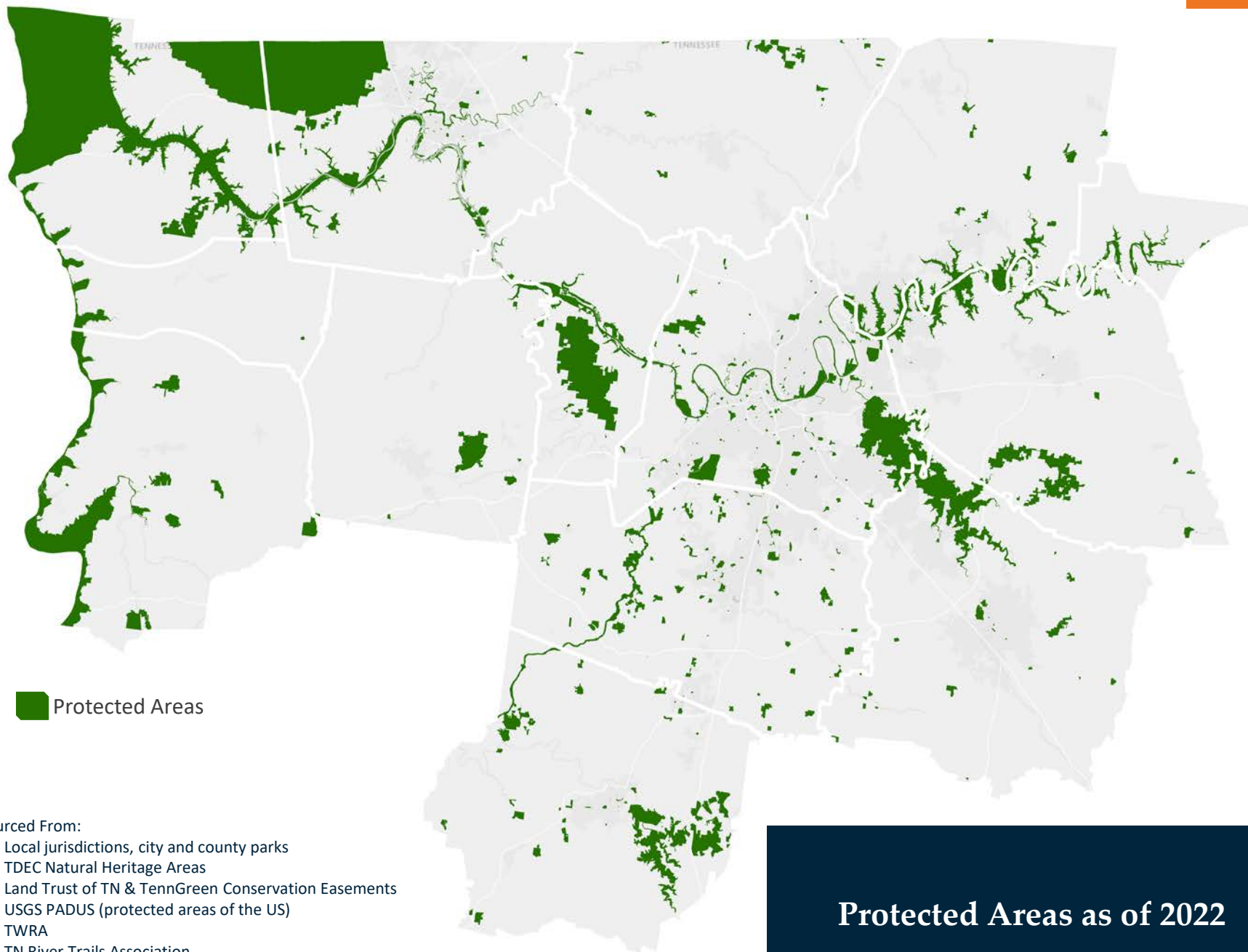


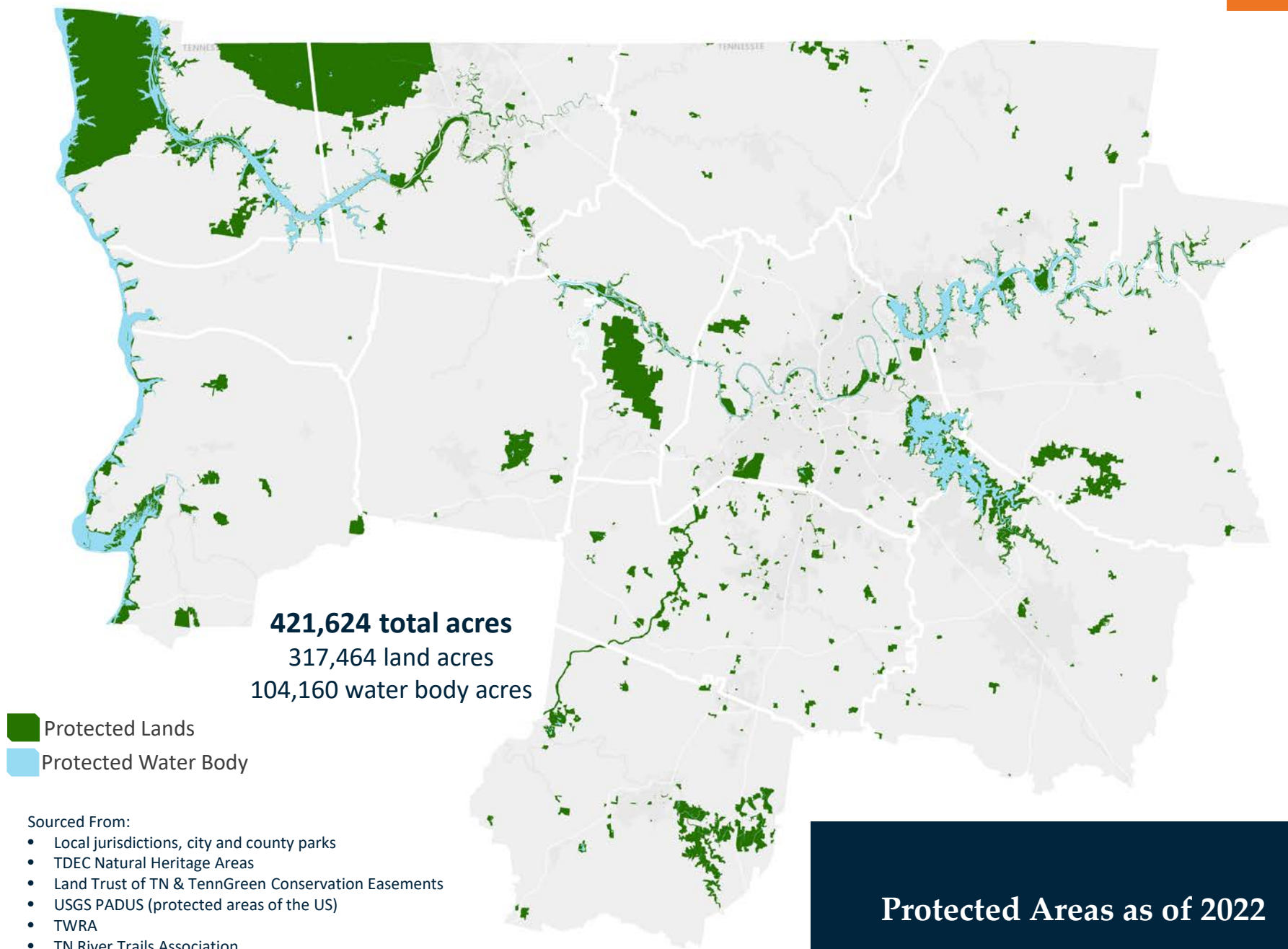


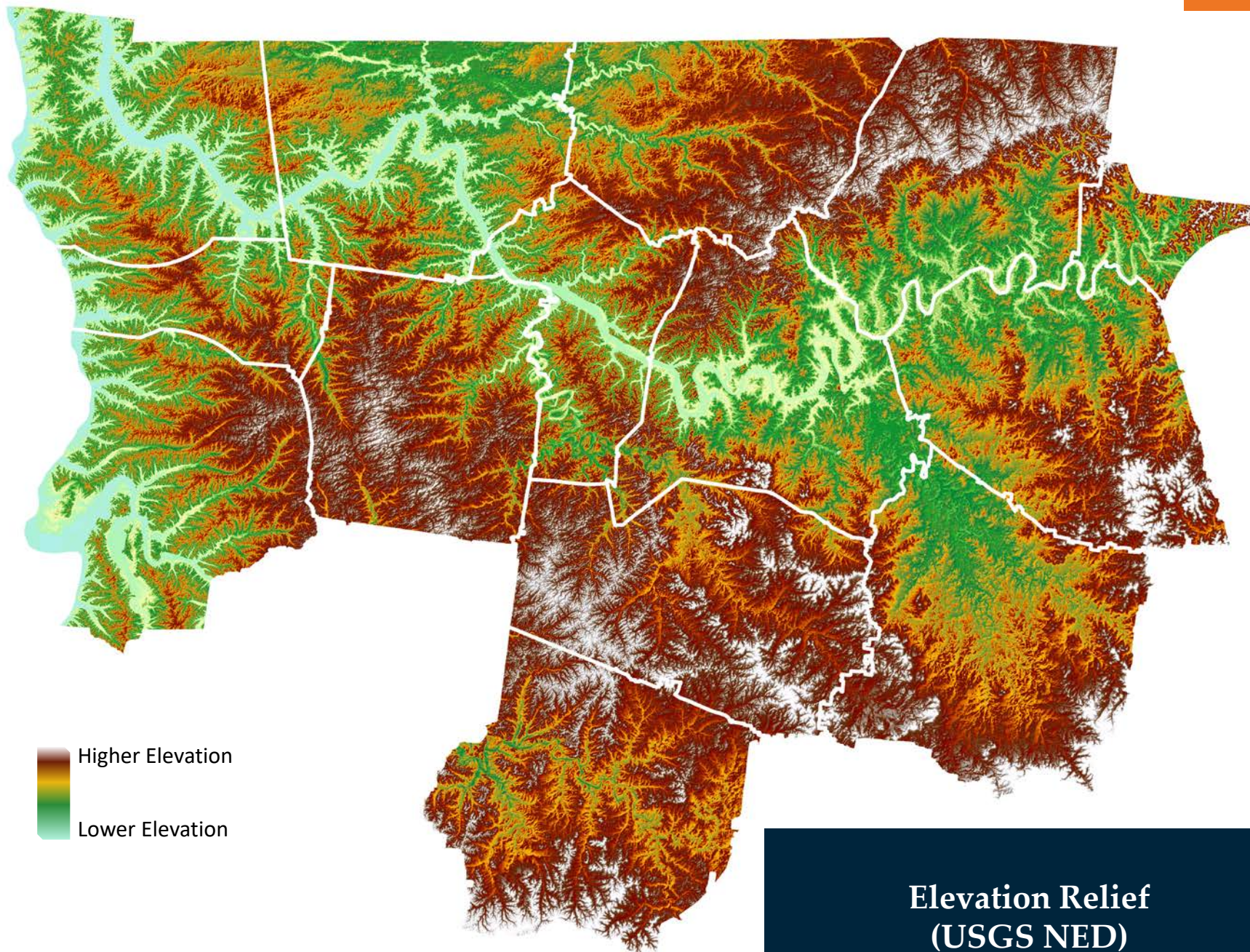
**2045 Population and
Jobs Density
(GNRC Land Use Model)**

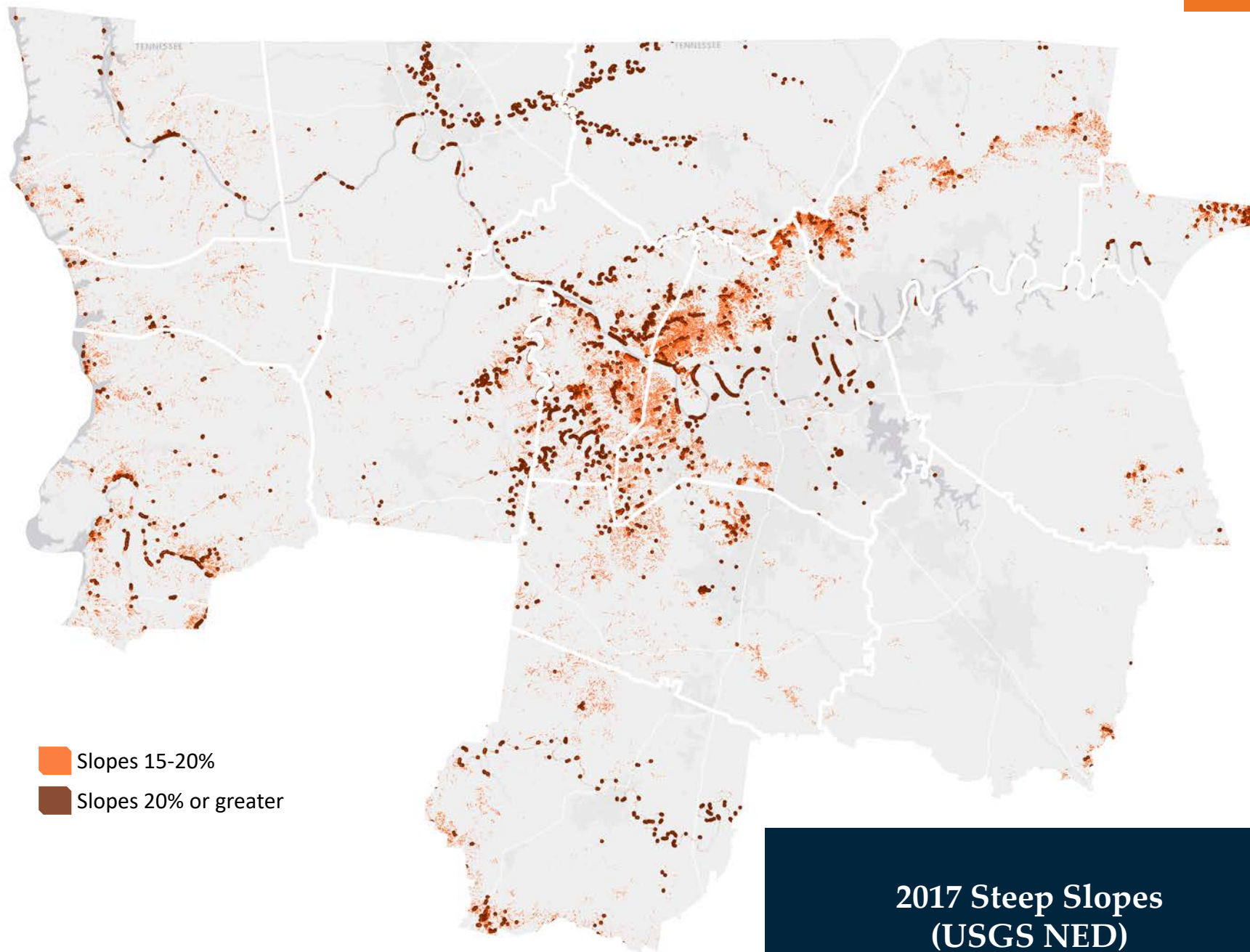


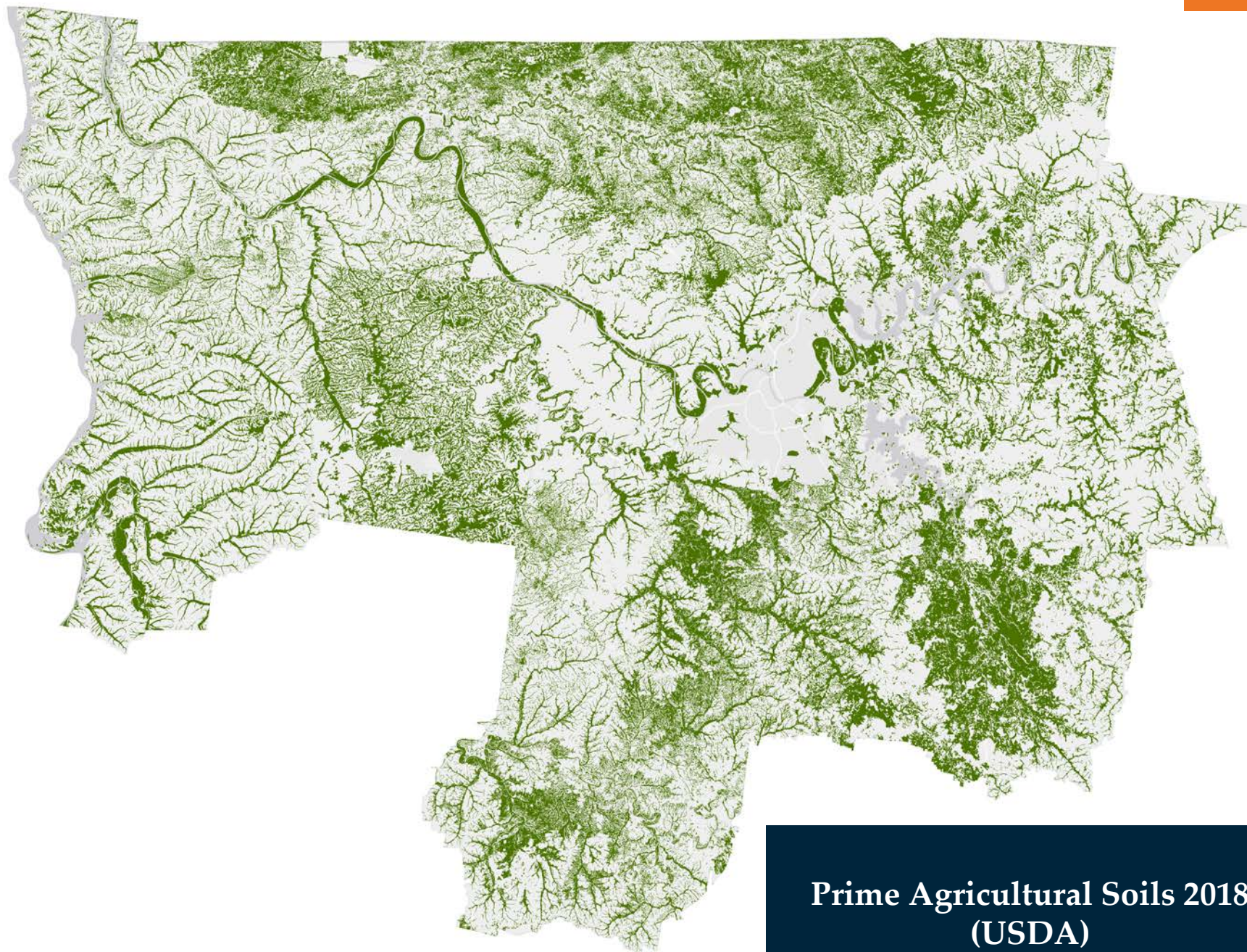


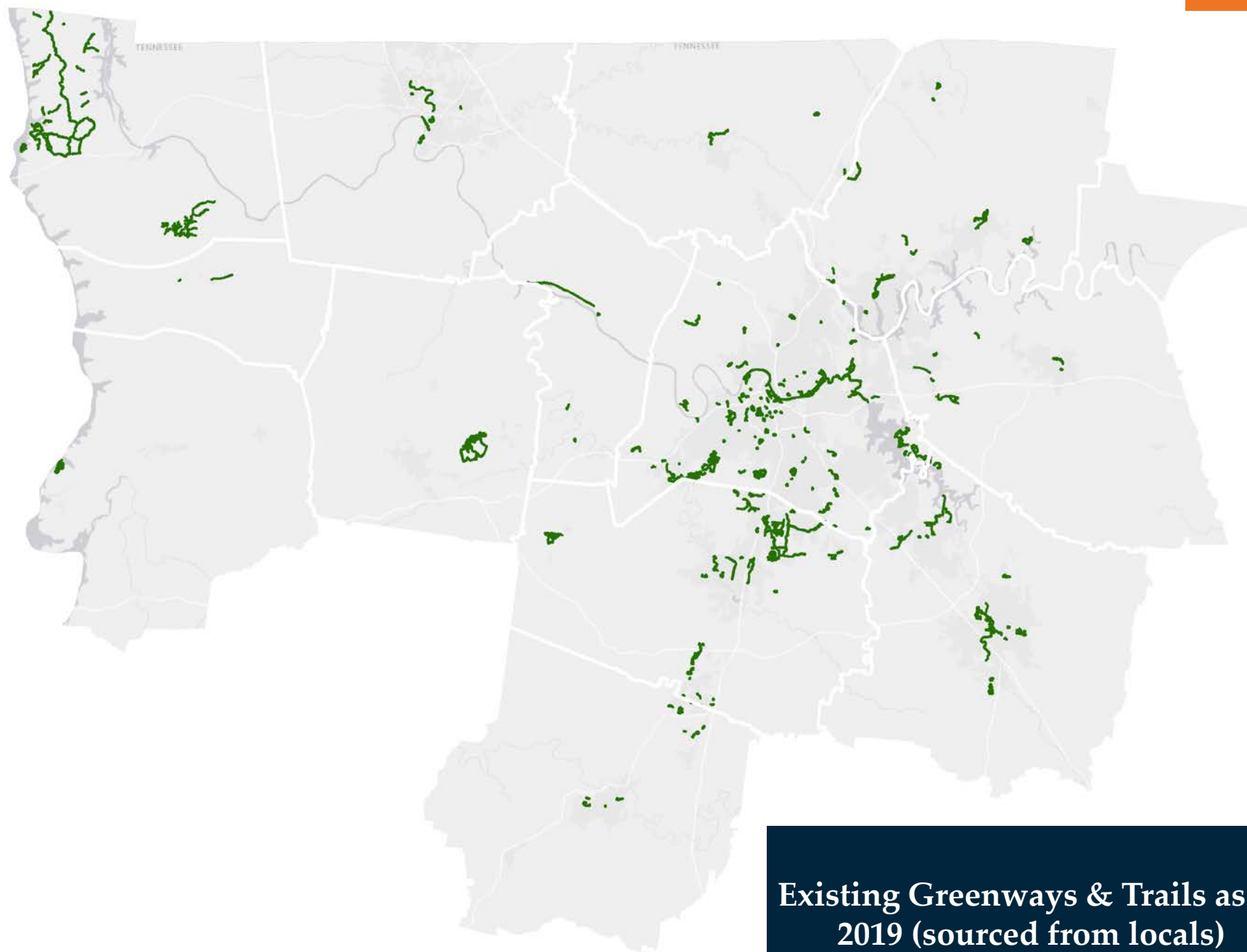


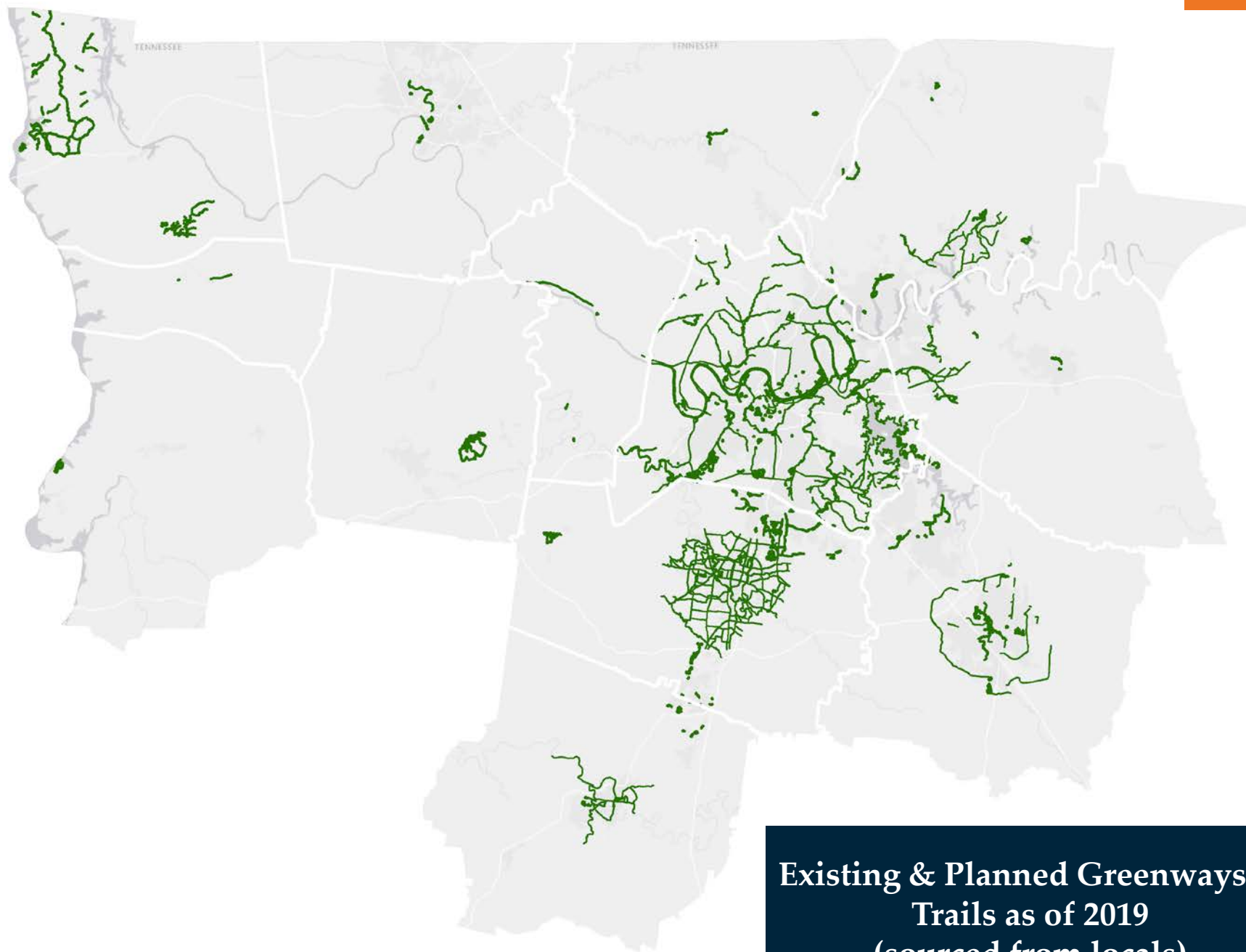


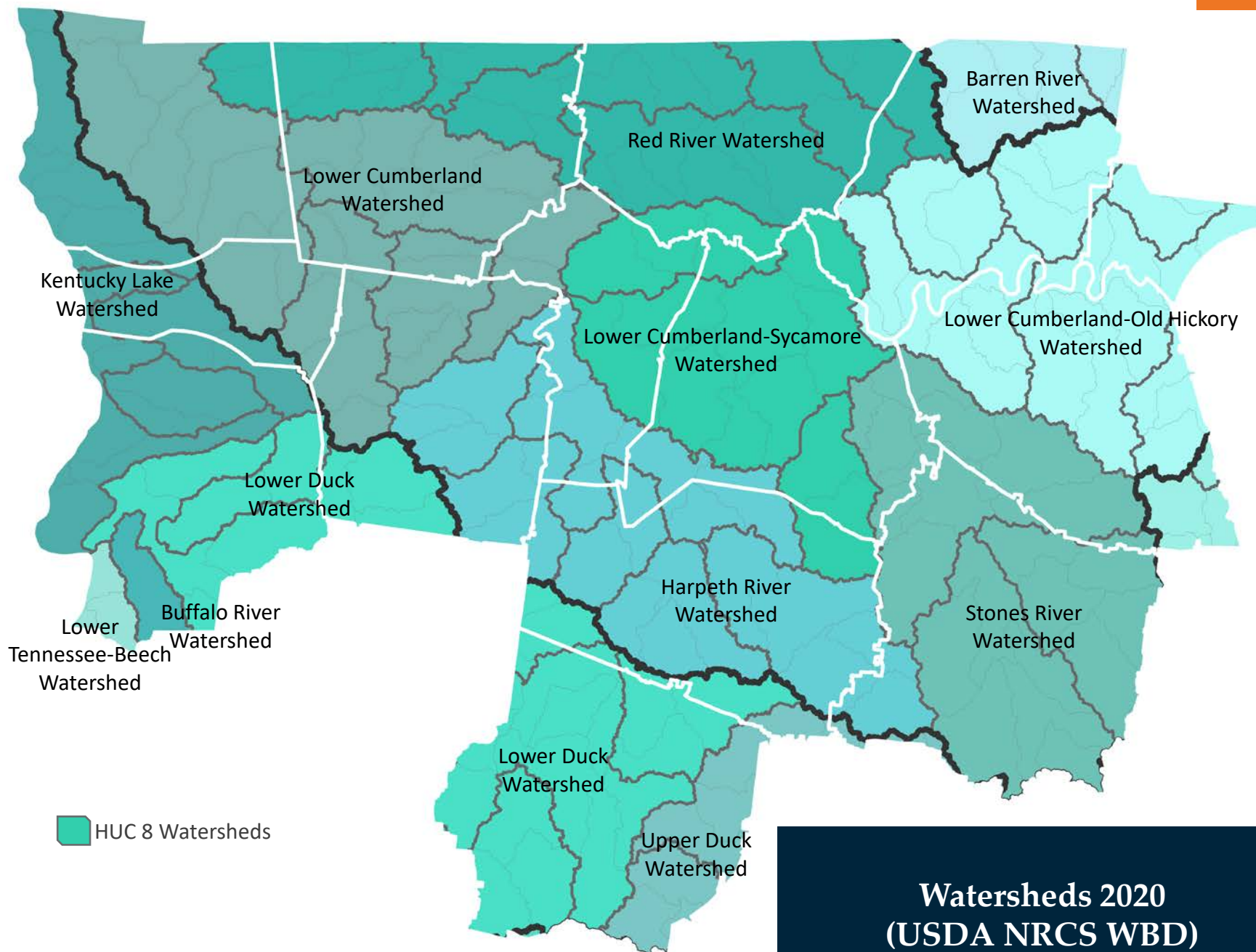


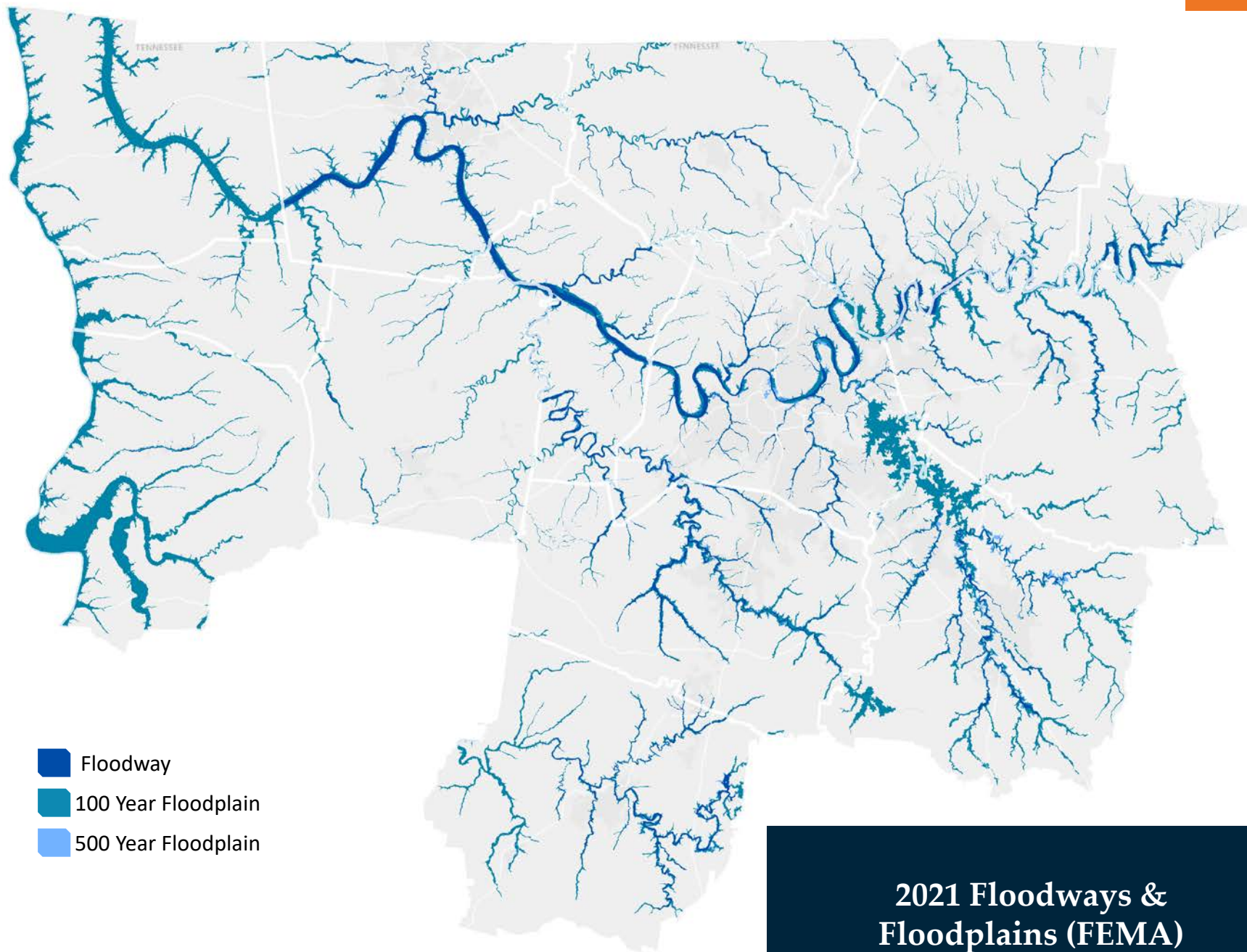


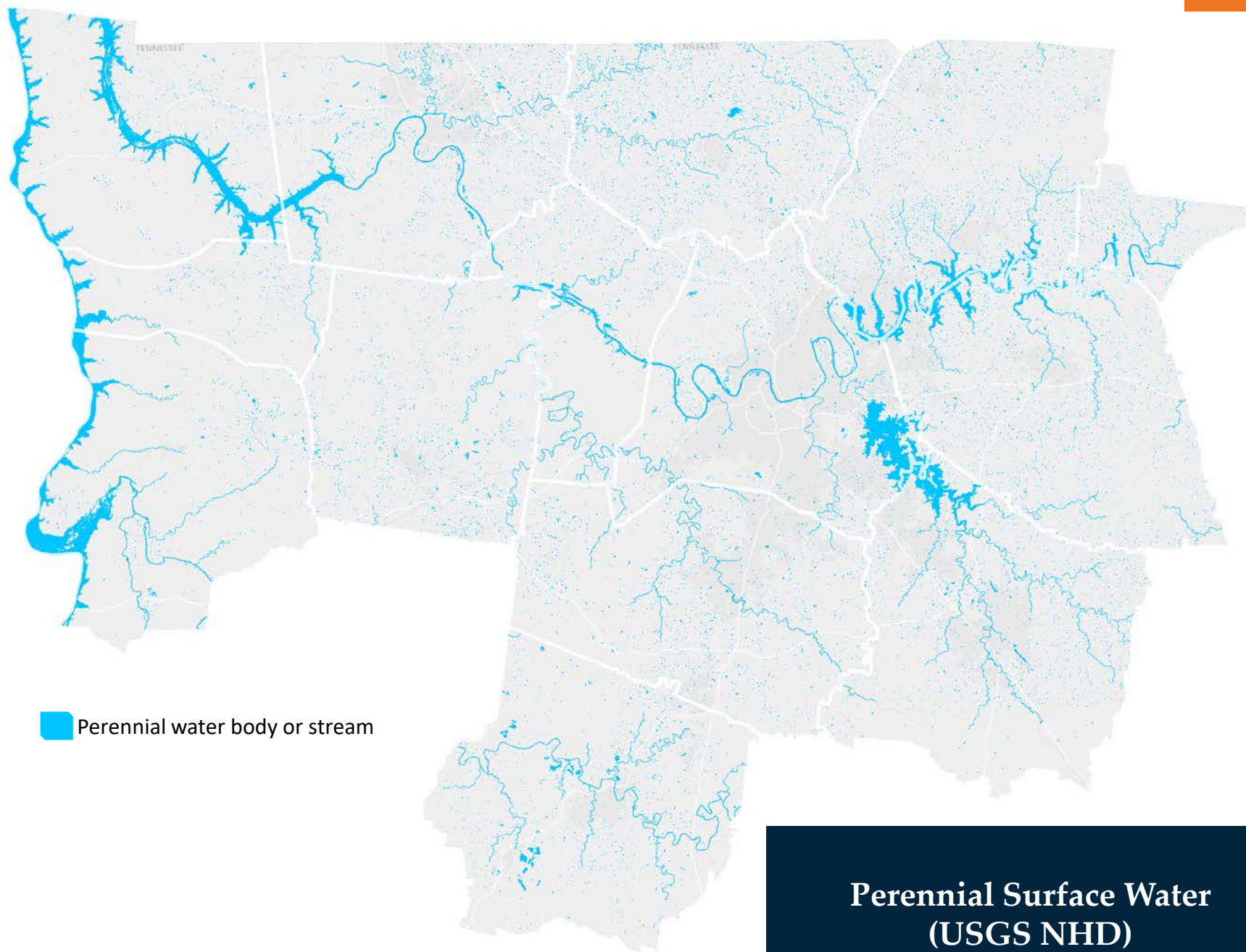


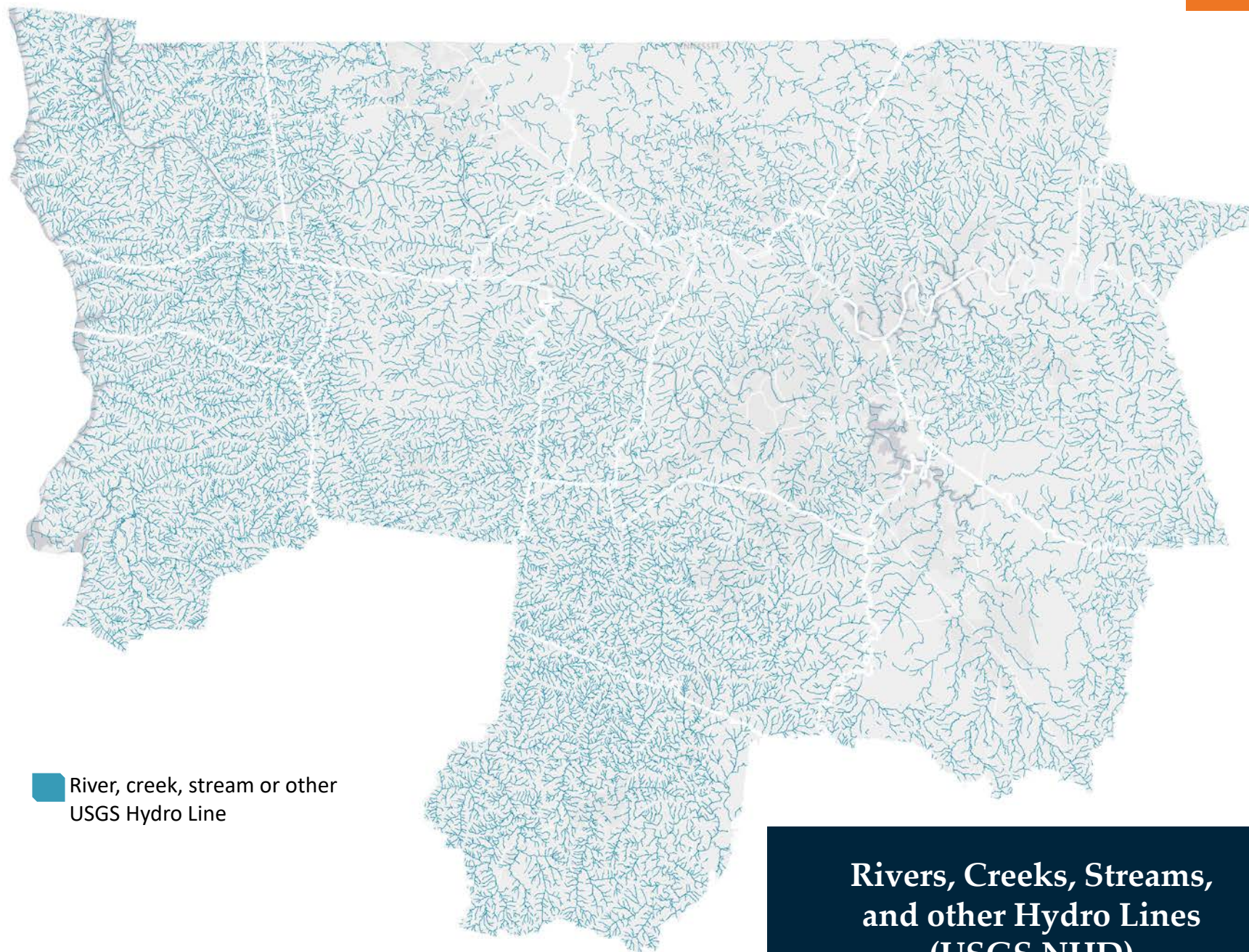


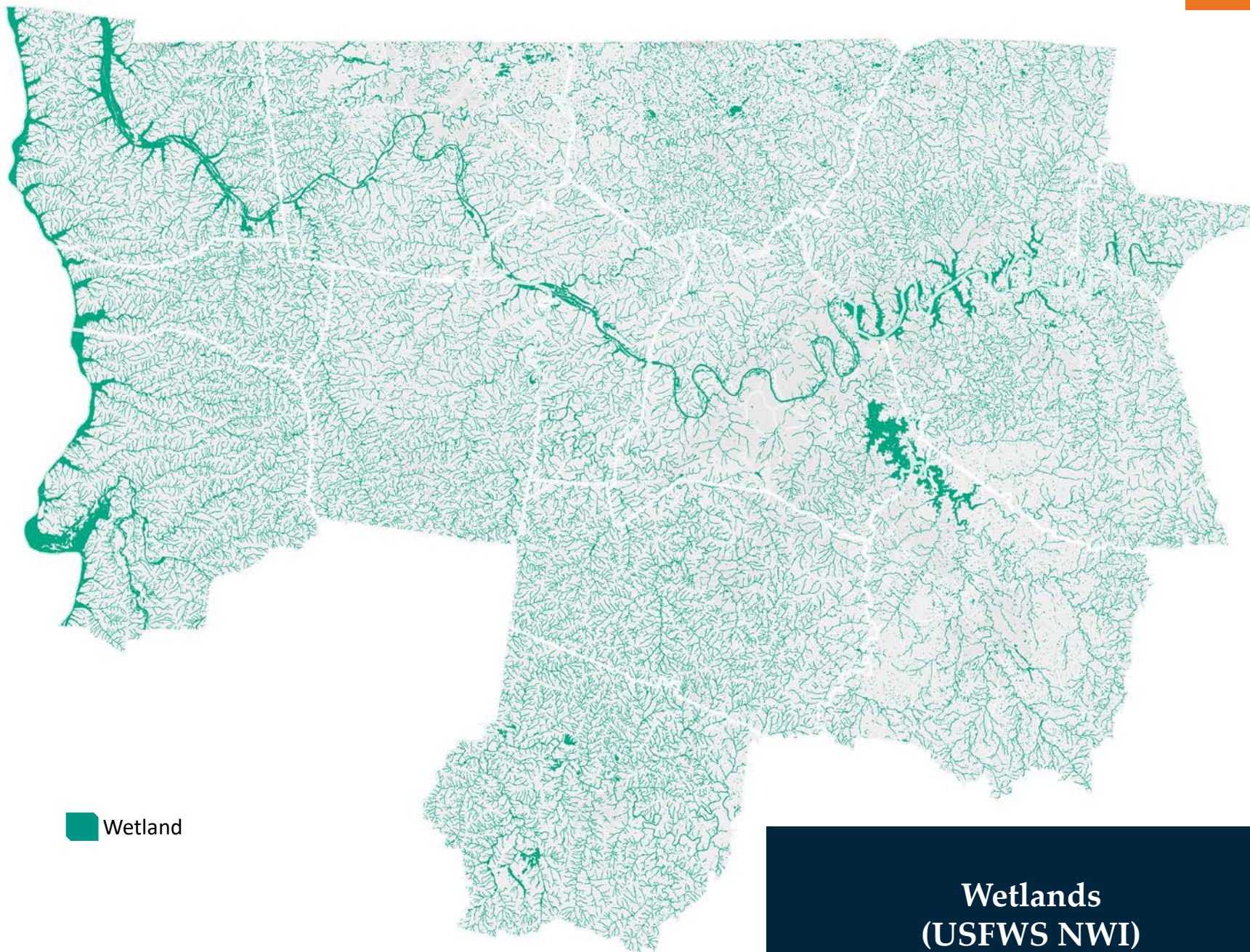


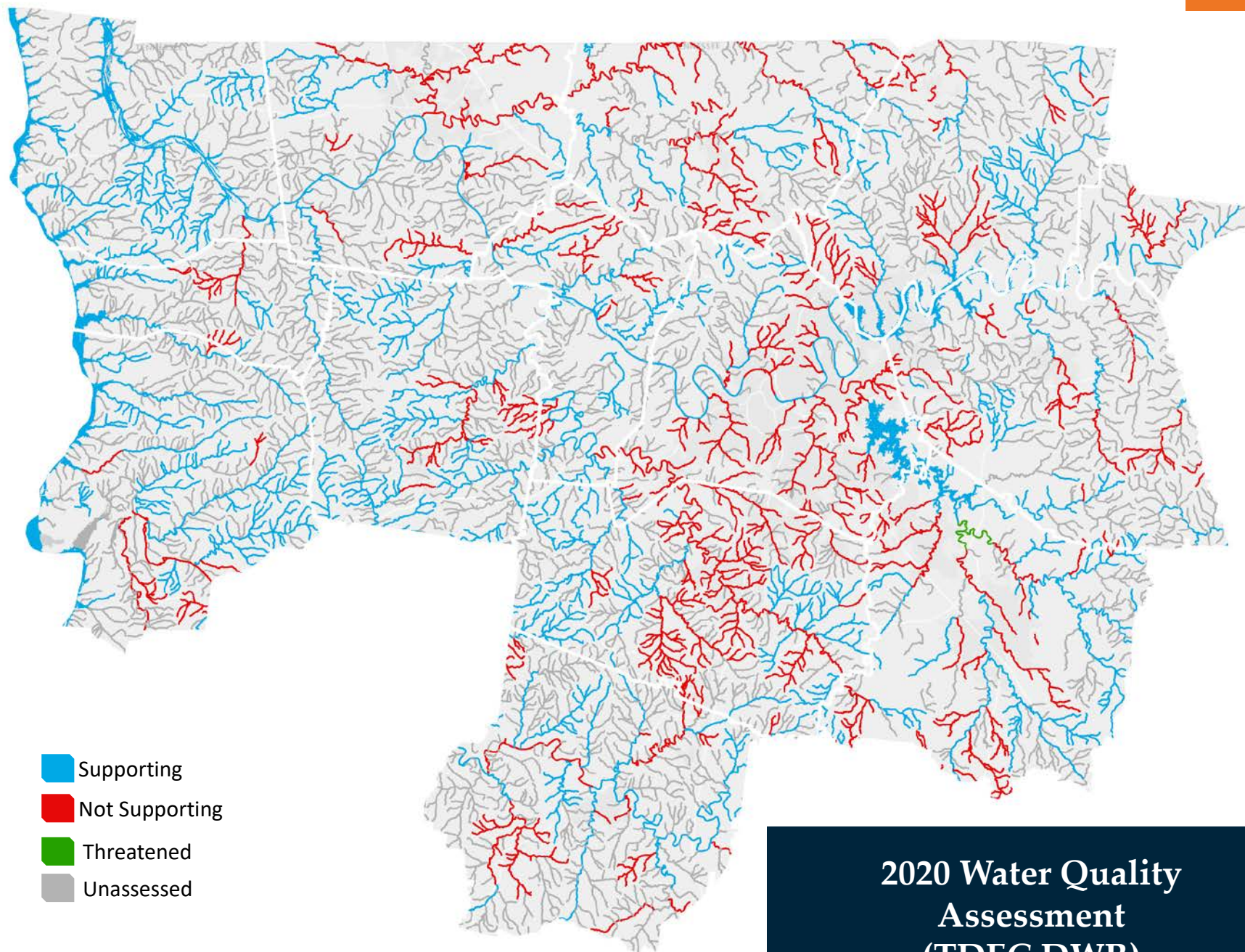


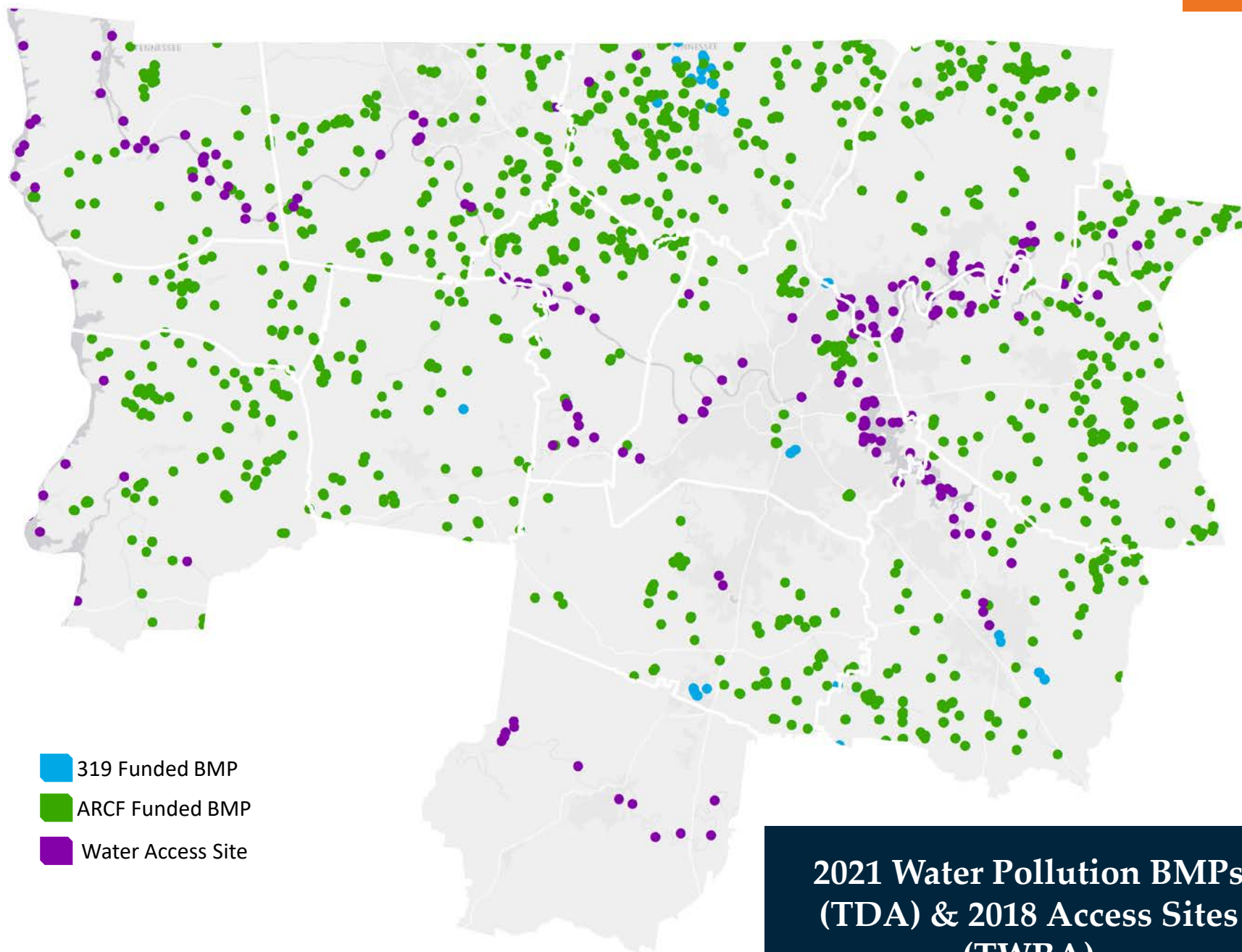




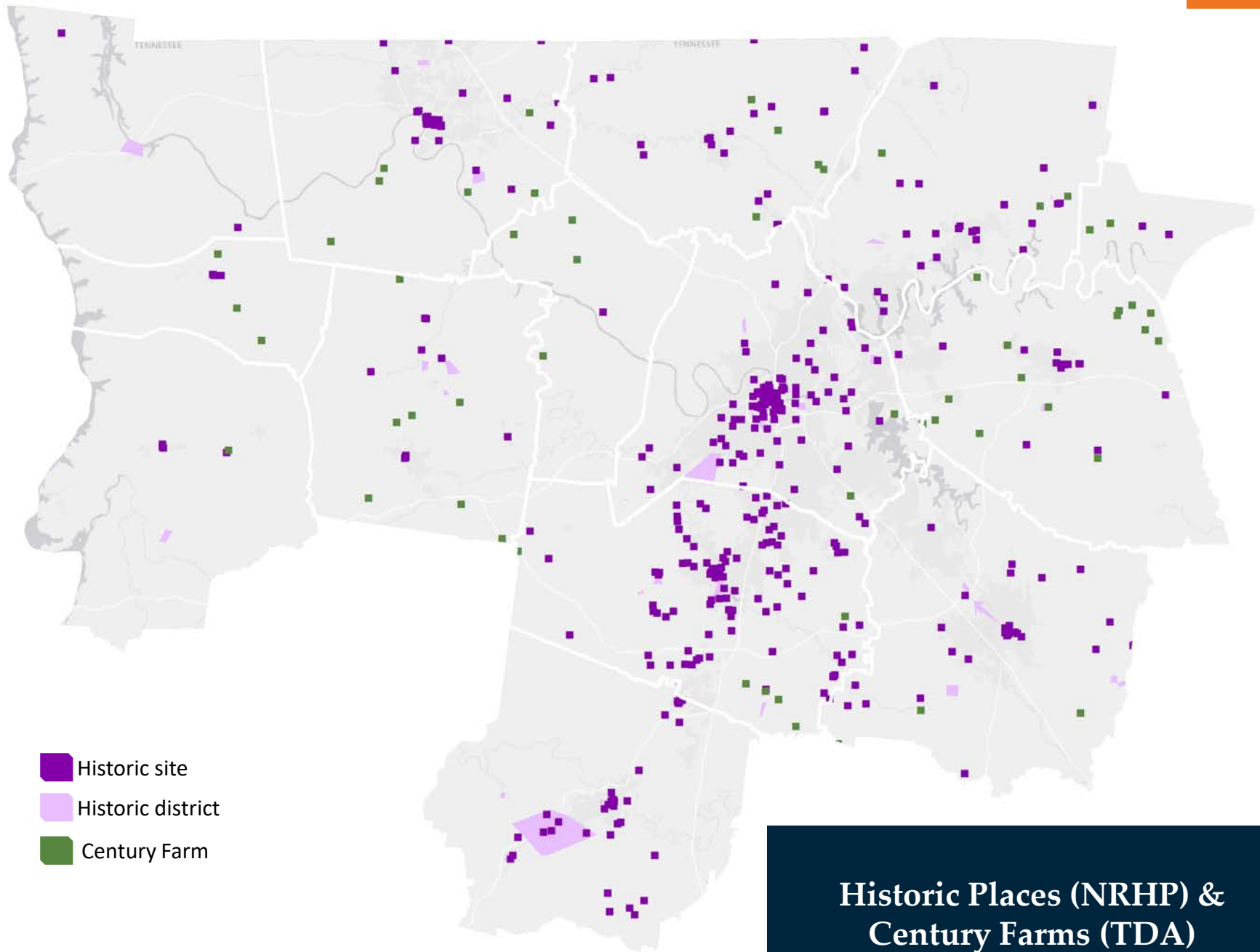


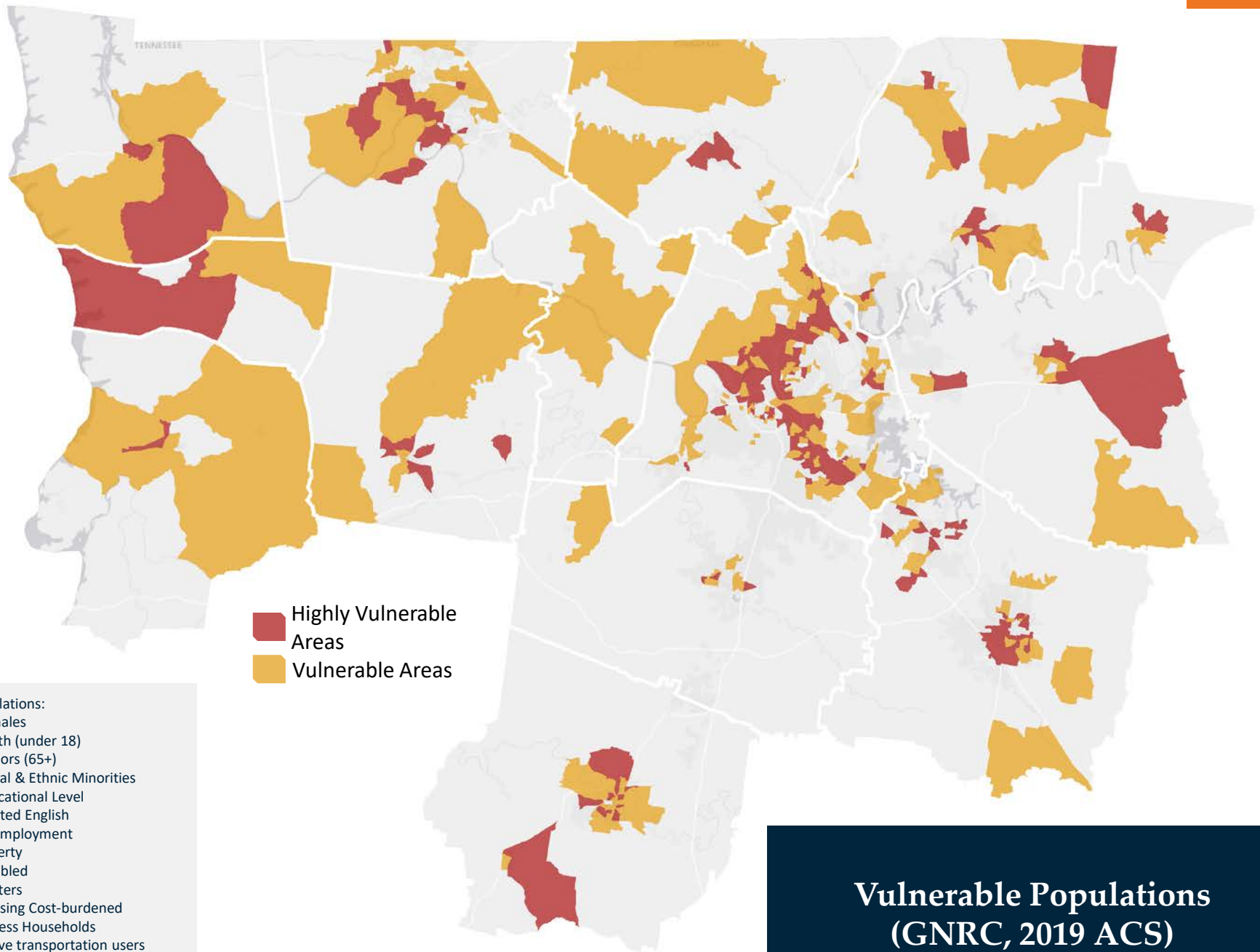






**2021 Water Pollution BMPs
(TDA) & 2018 Access Sites
(TWRA)**

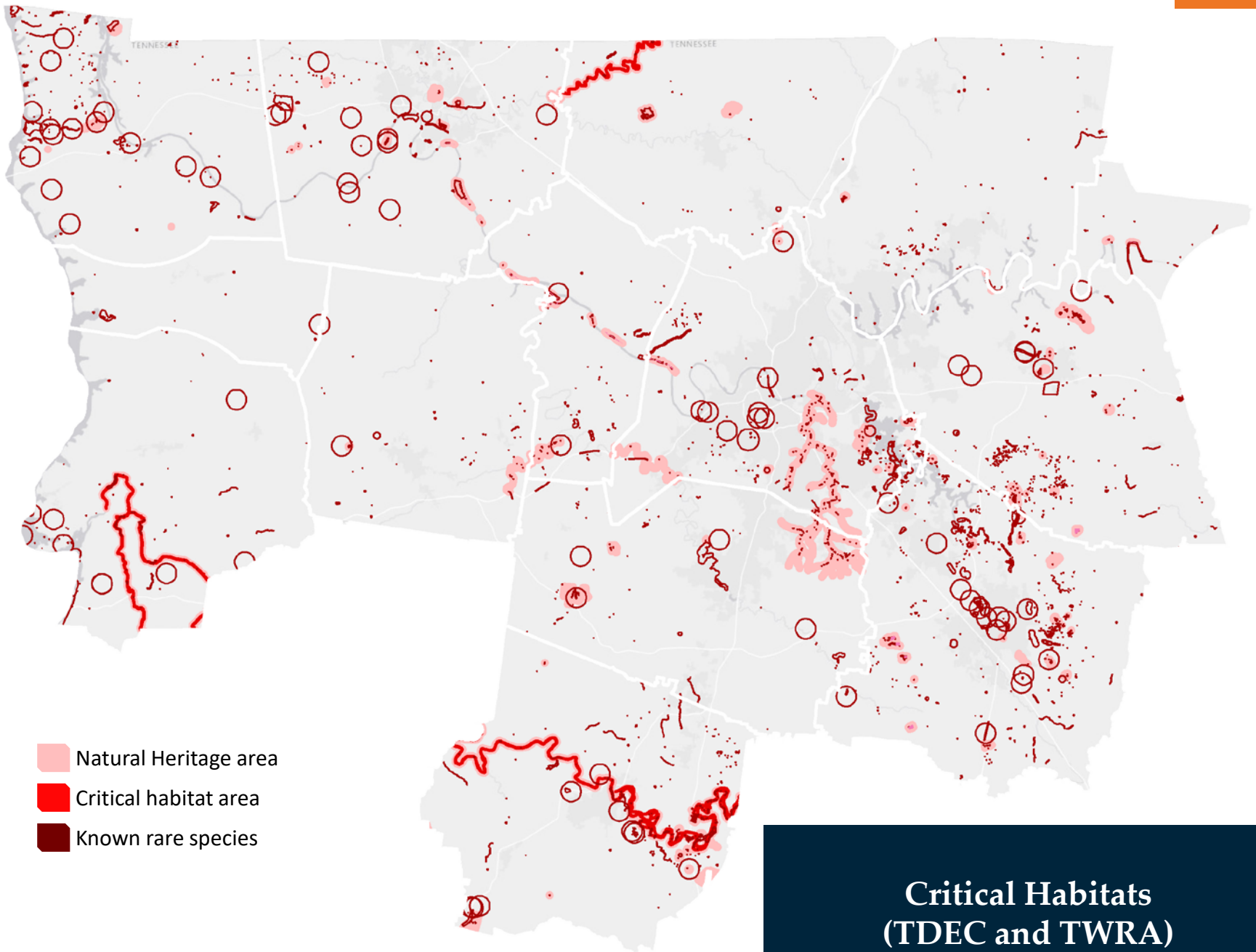


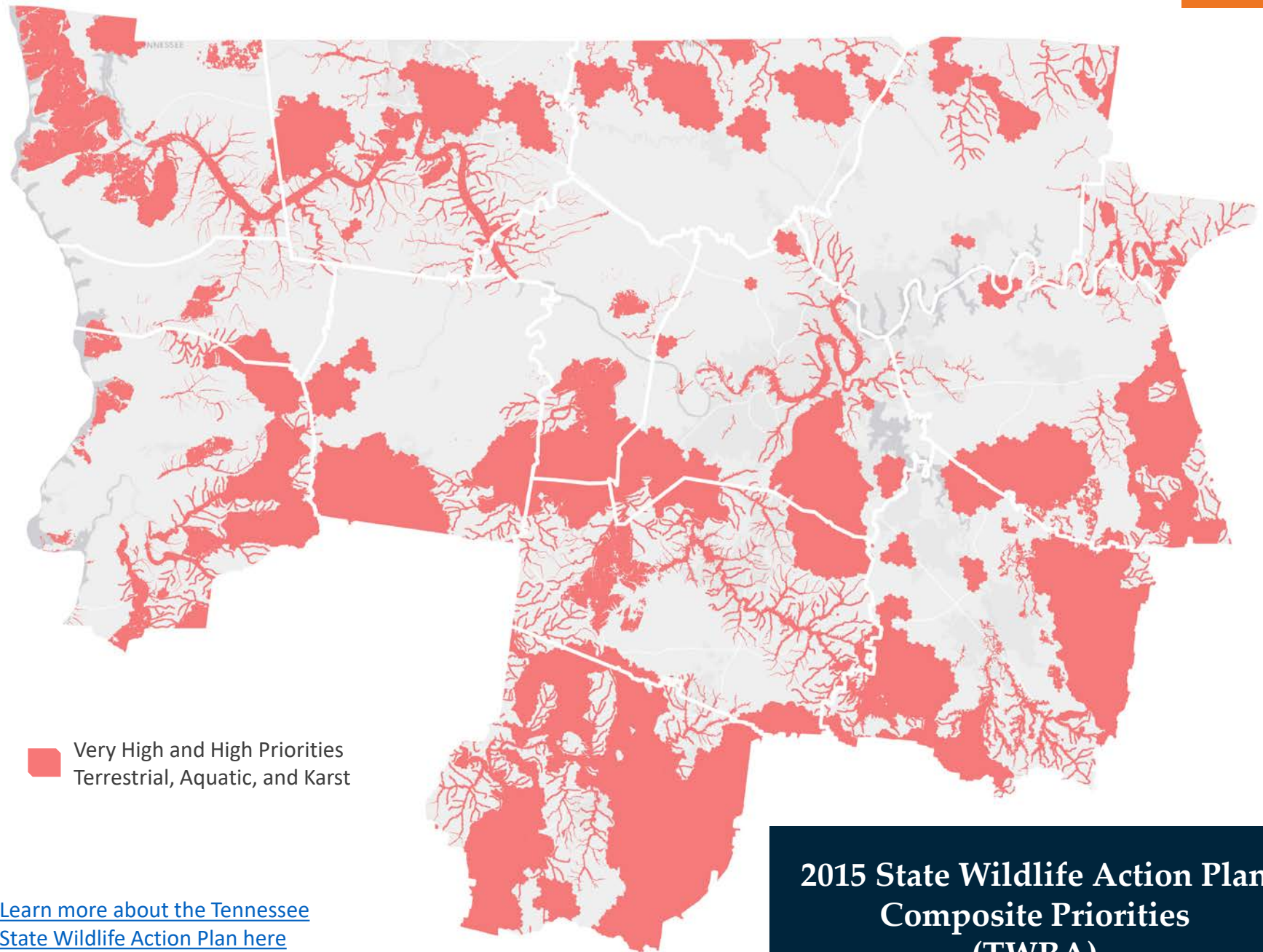


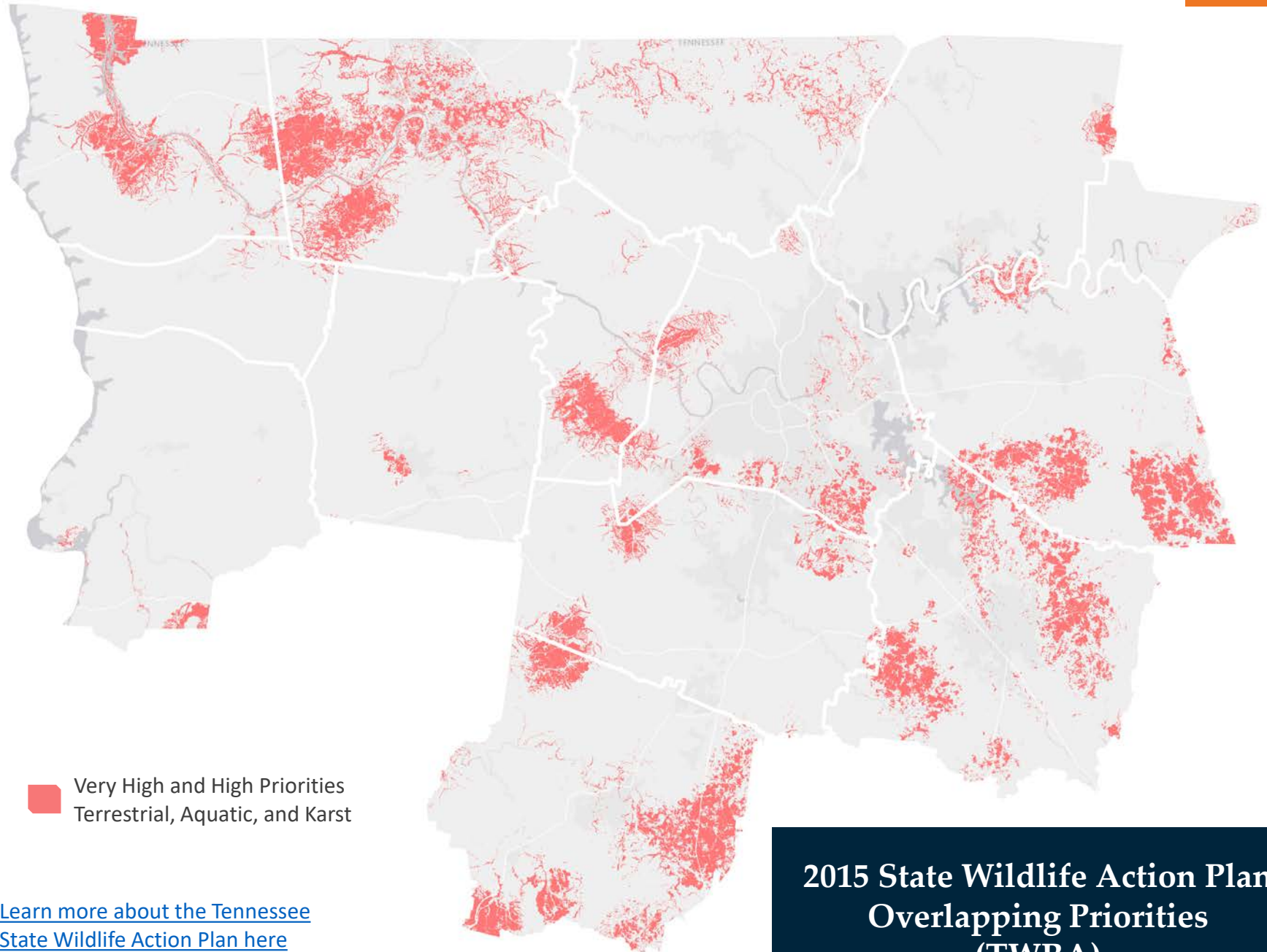
13 populations:

- Females
- Youth (under 18)
- Seniors (65+)
- Racial & Ethnic Minorities
- Educational Level
- Limited English
- Unemployment
- Poverty
- Disabled
- Renters
- Housing Cost-burdened
- Carless Households
- Active transportation users (commute by bike, walking, or transit)

Vulnerable Populations
(GNRC, 2019 ACS)

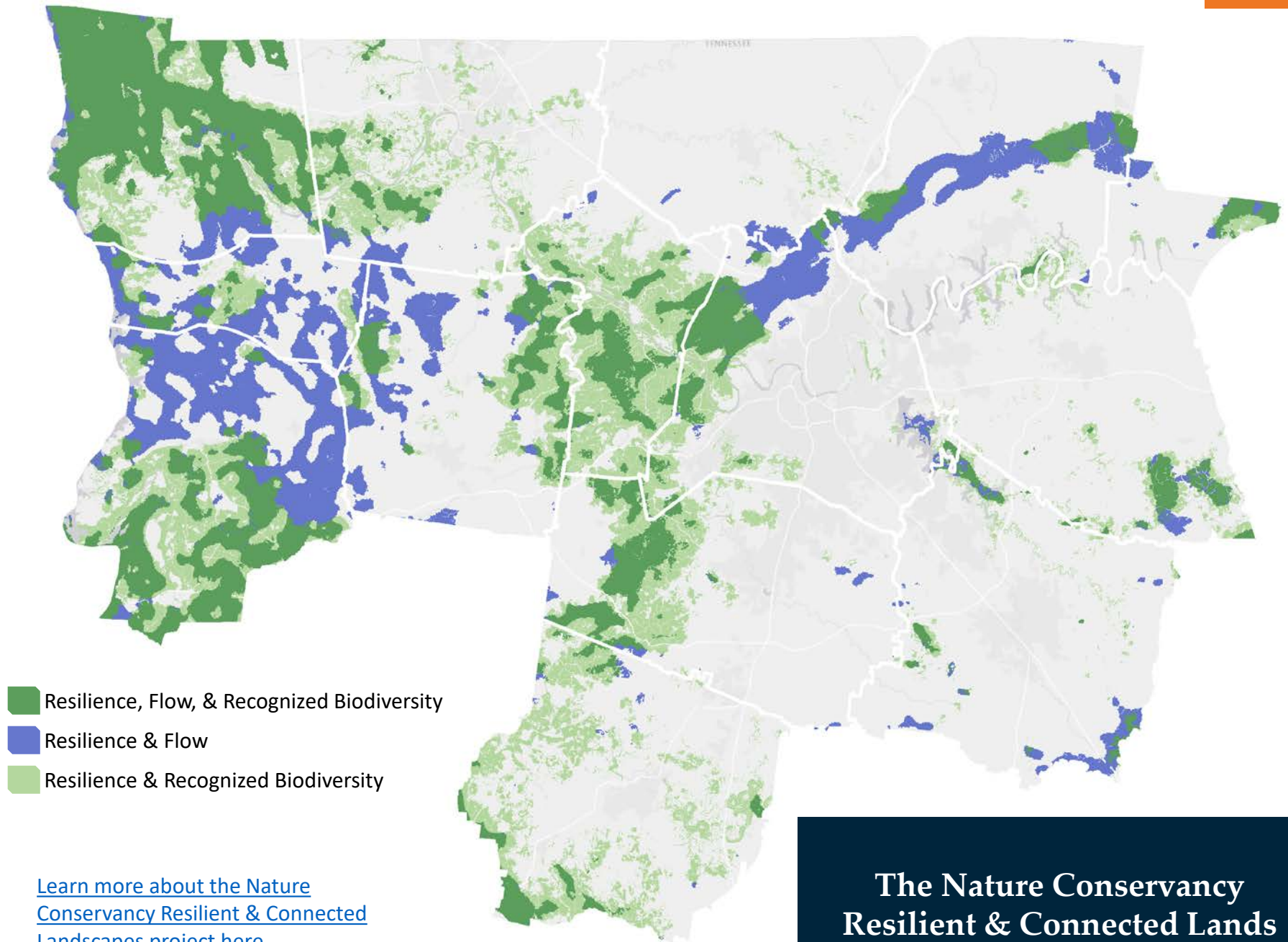


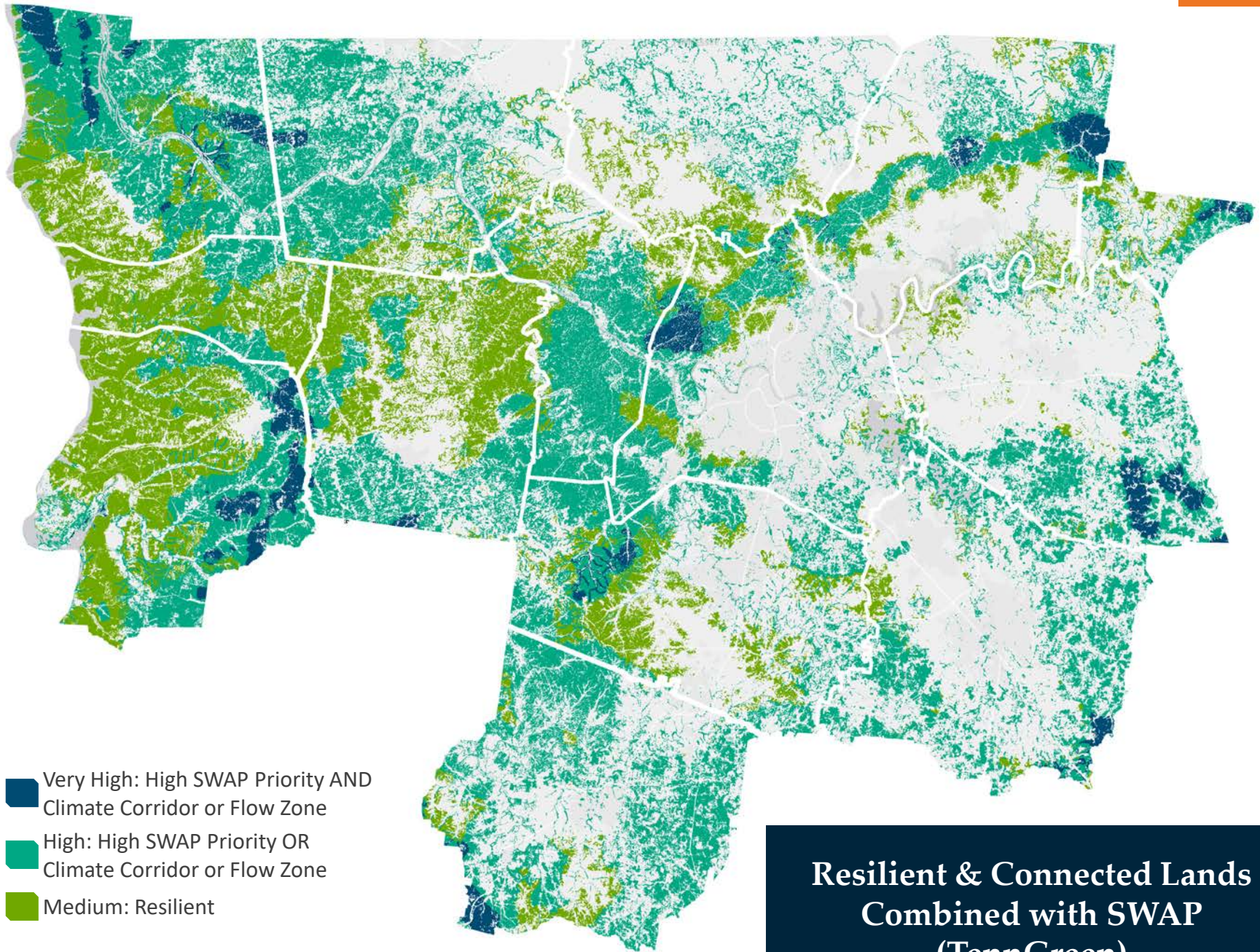


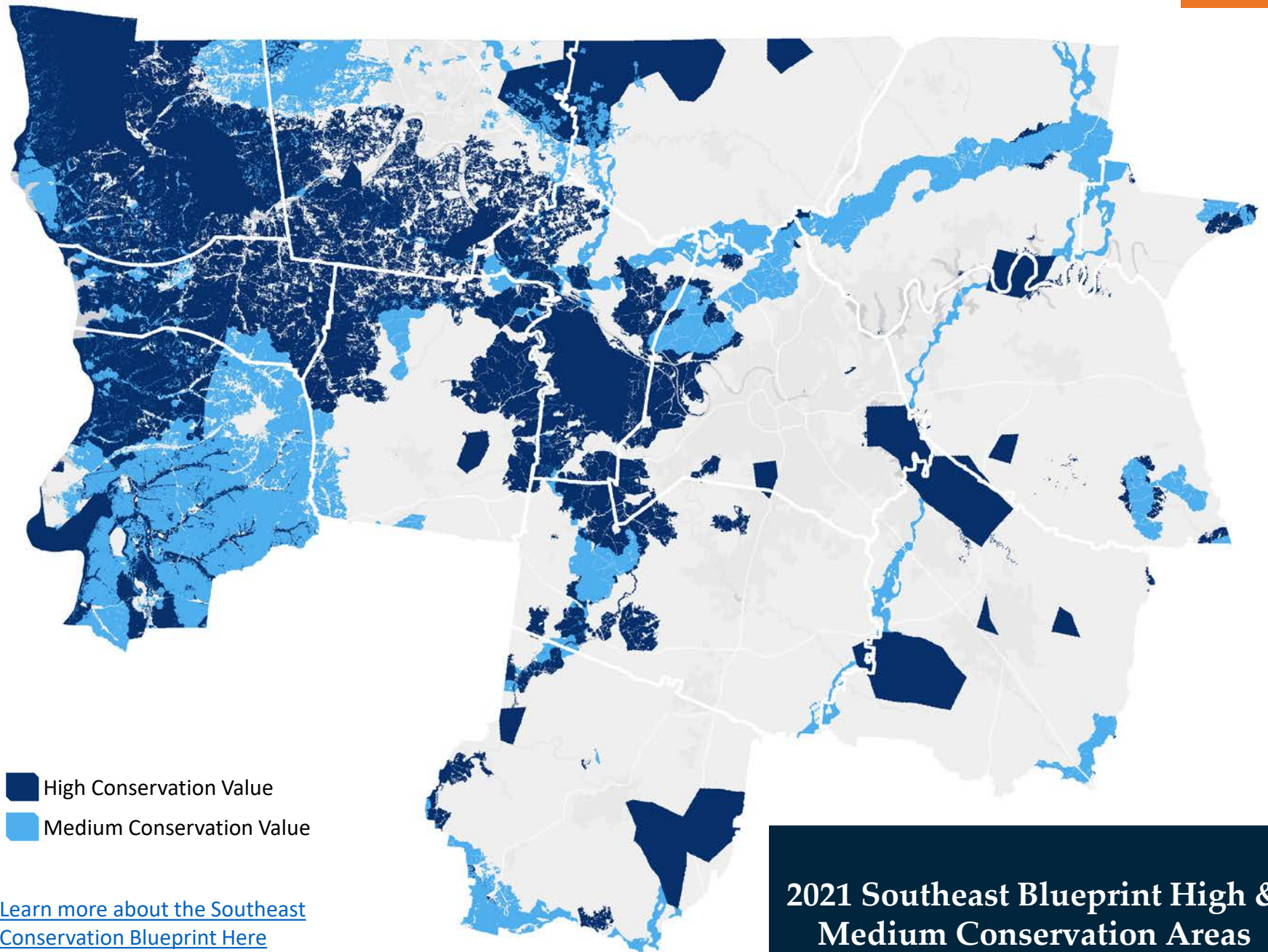


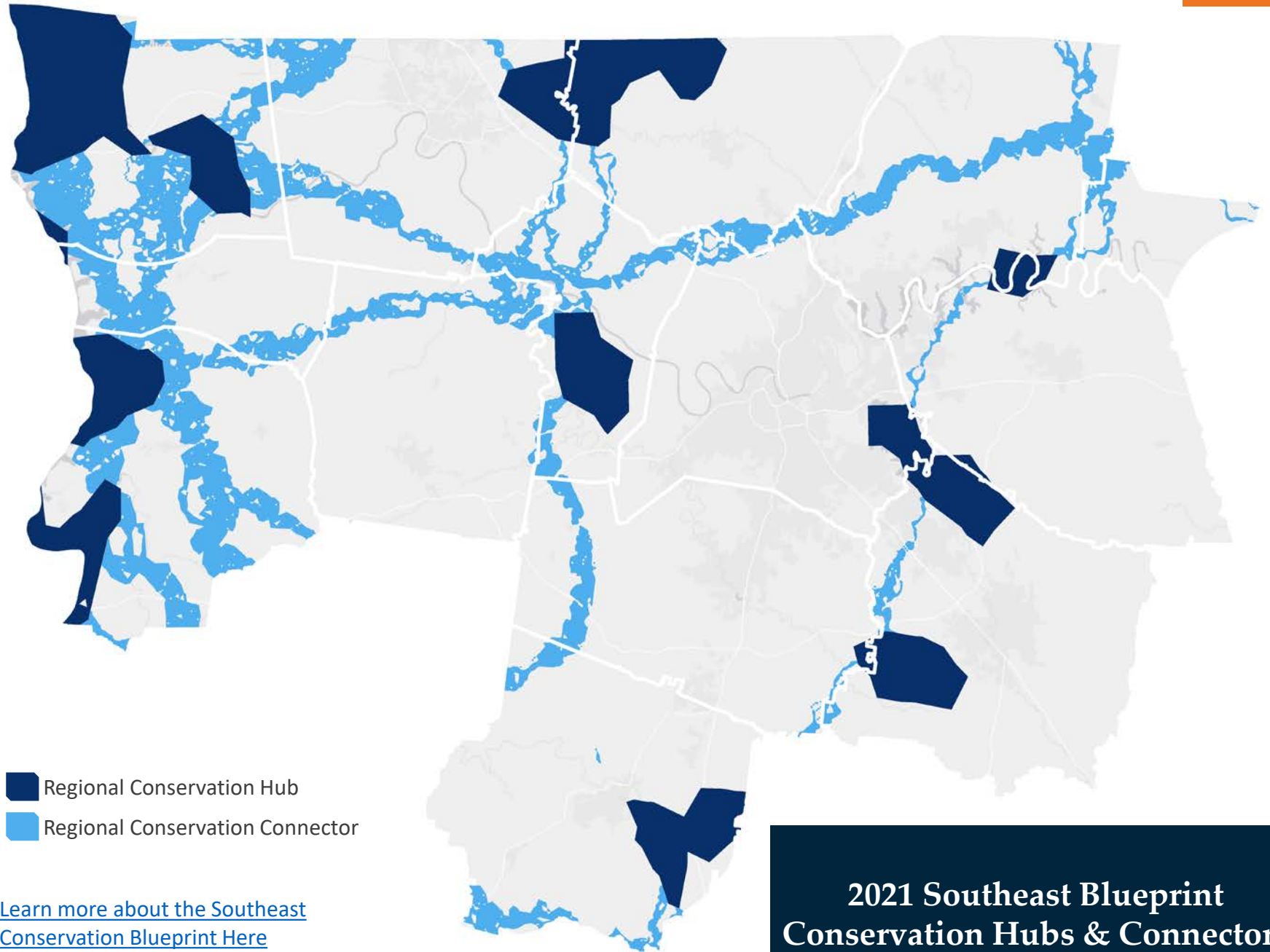
[Learn more about the Tennessee
State Wildlife Action Plan here](#)

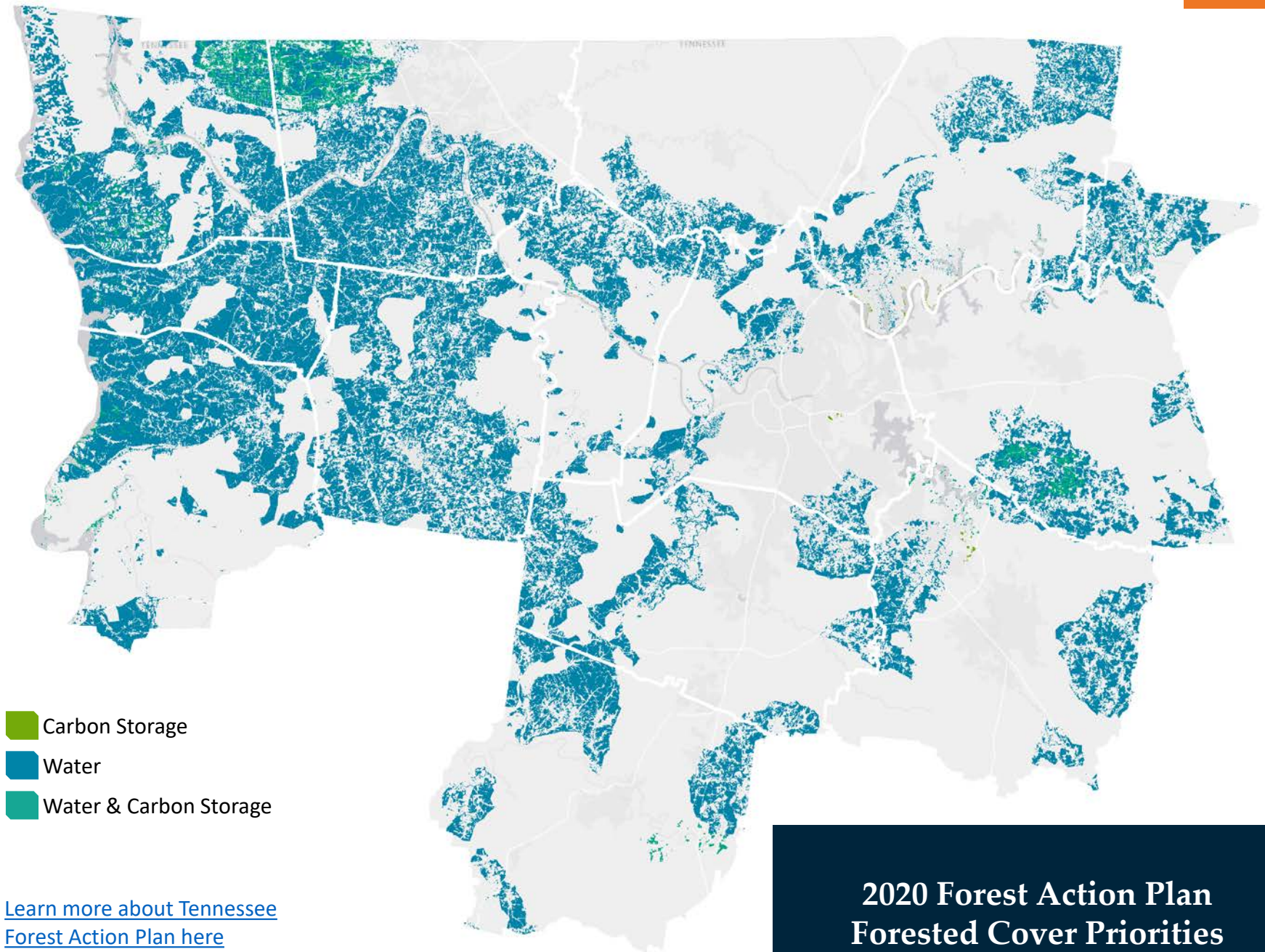
**2015 State Wildlife Action Plan
Overlapping Priorities
(TWRA)**





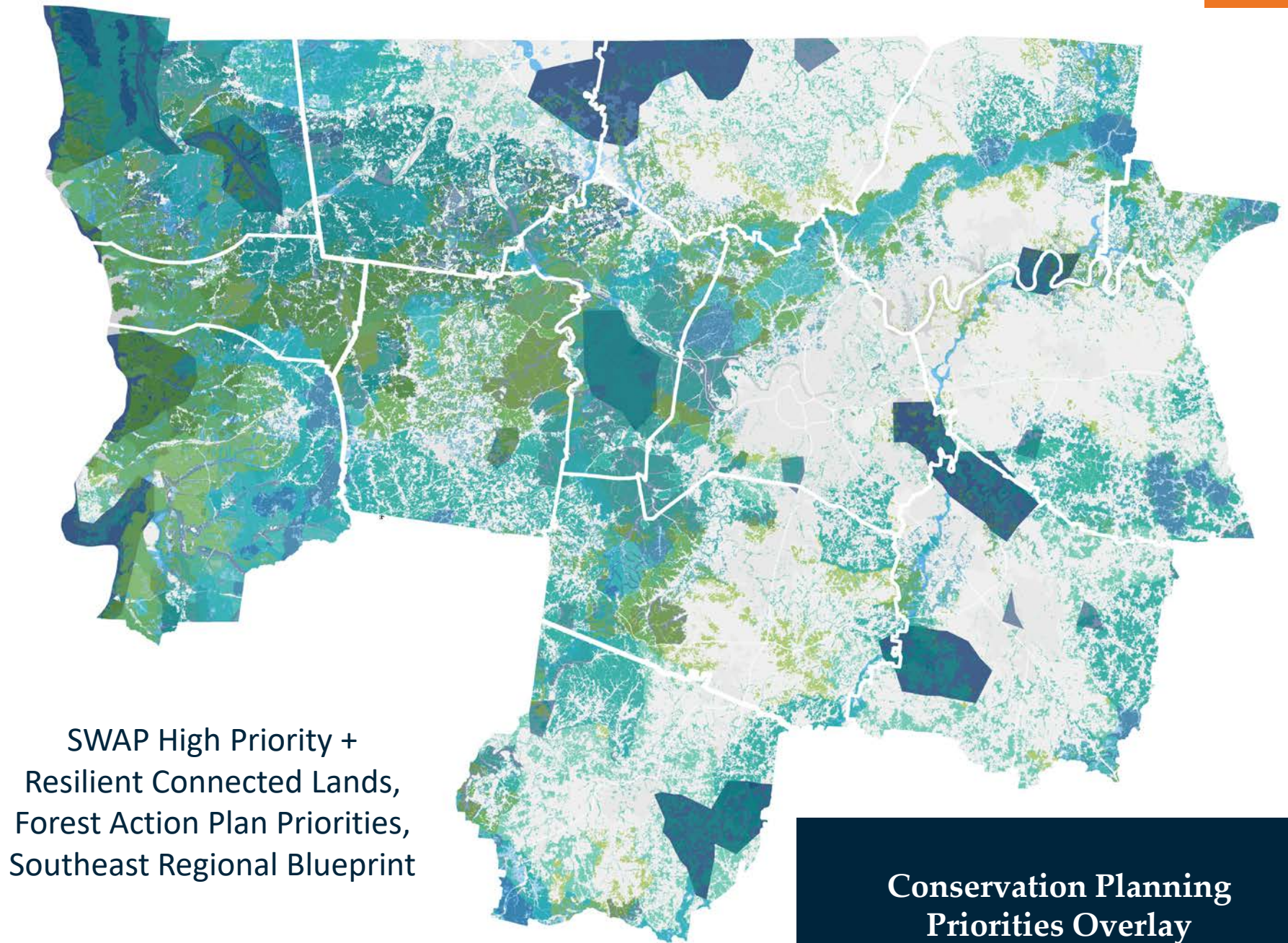


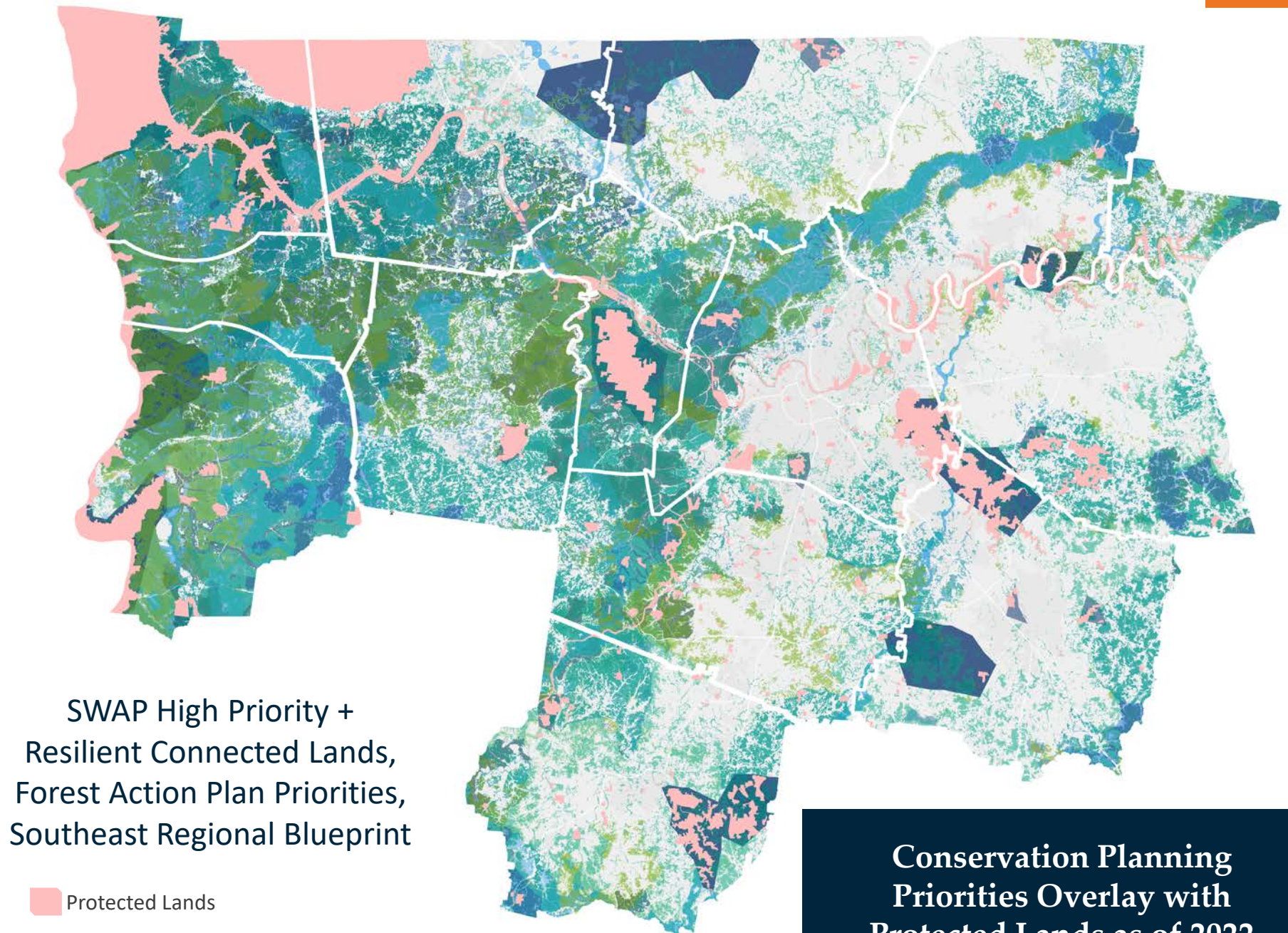


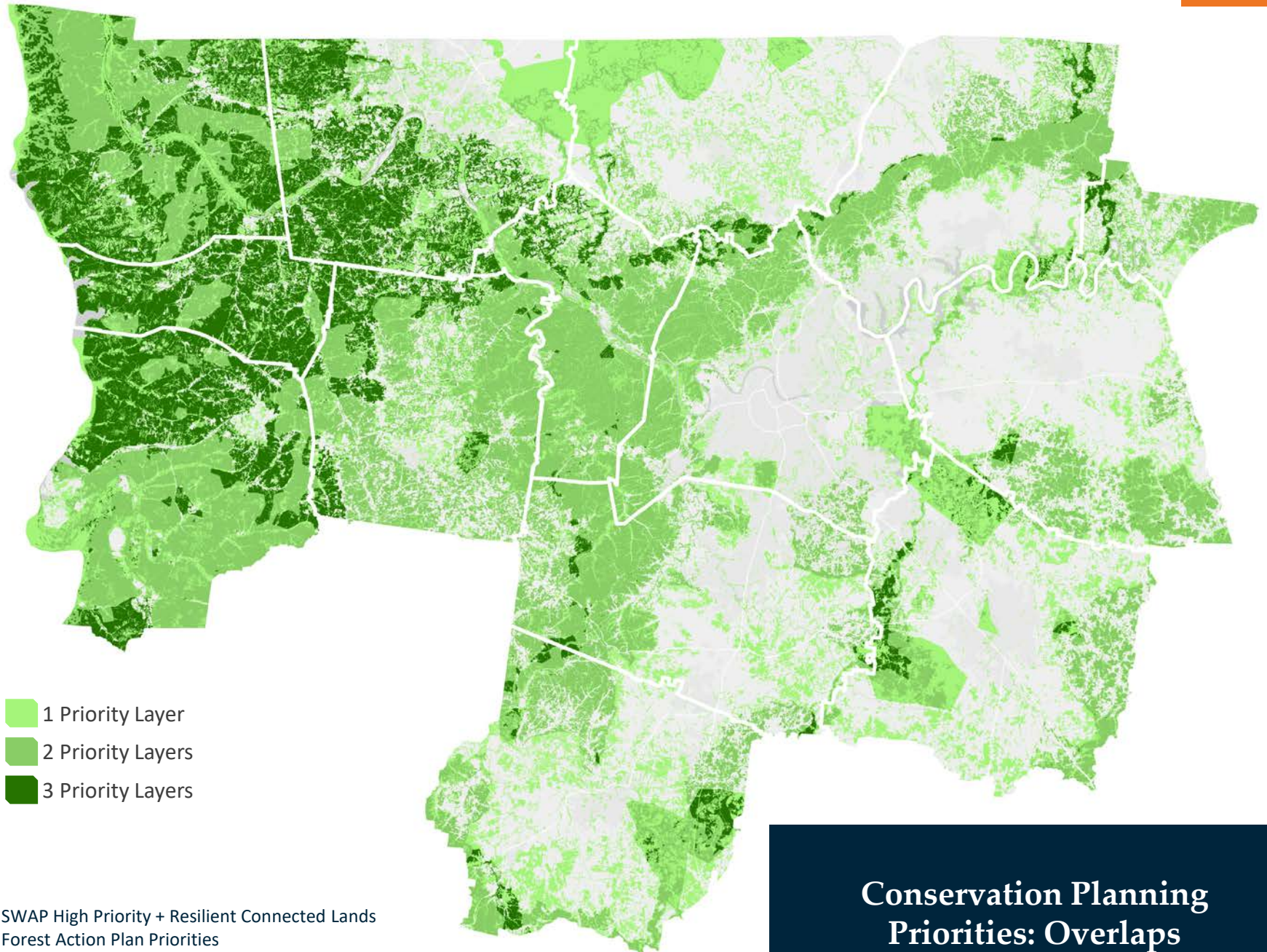


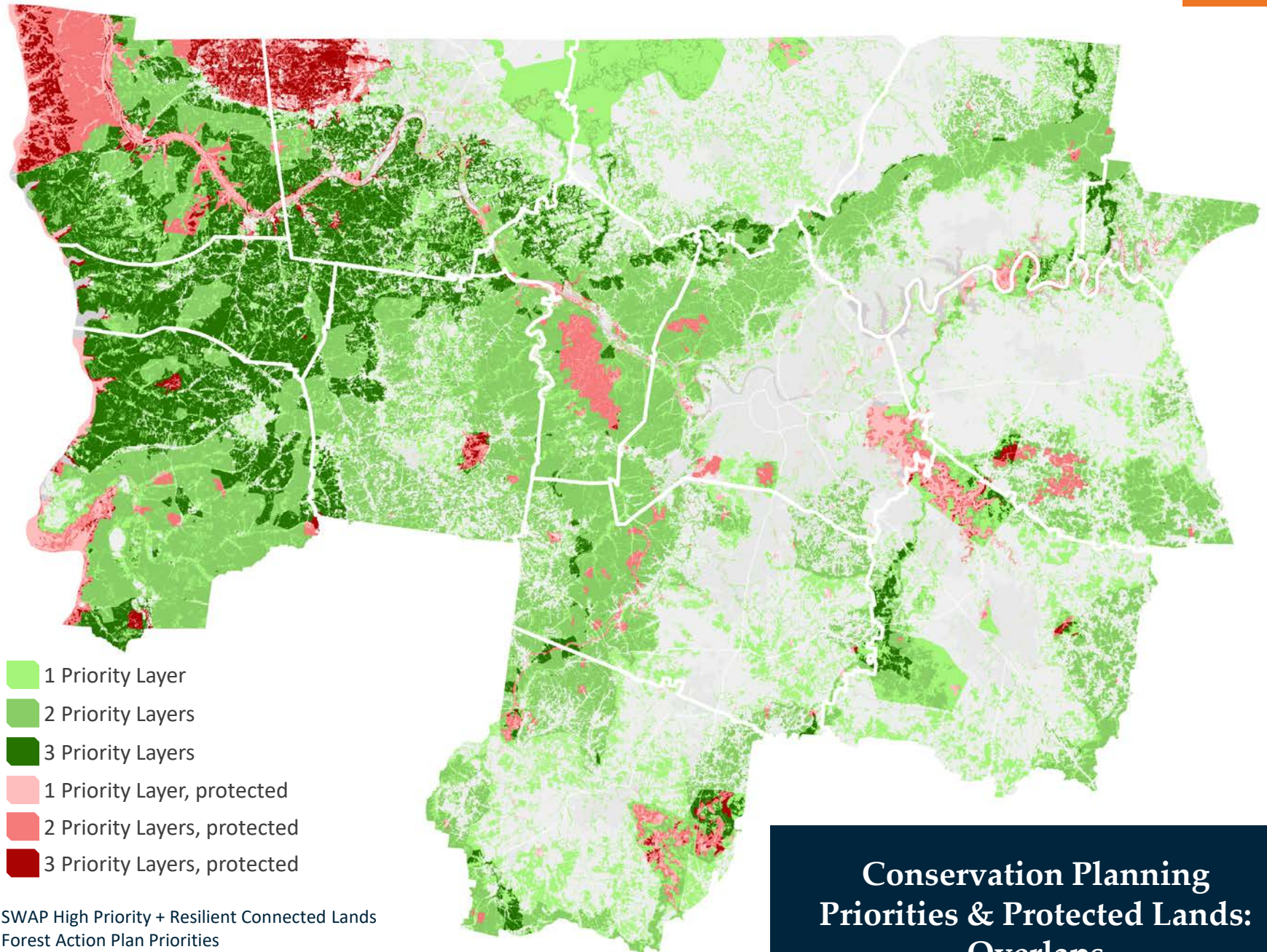
[Learn more about Tennessee Forest Action Plan here](#)

**2020 Forest Action Plan
Forested Cover Priorities**



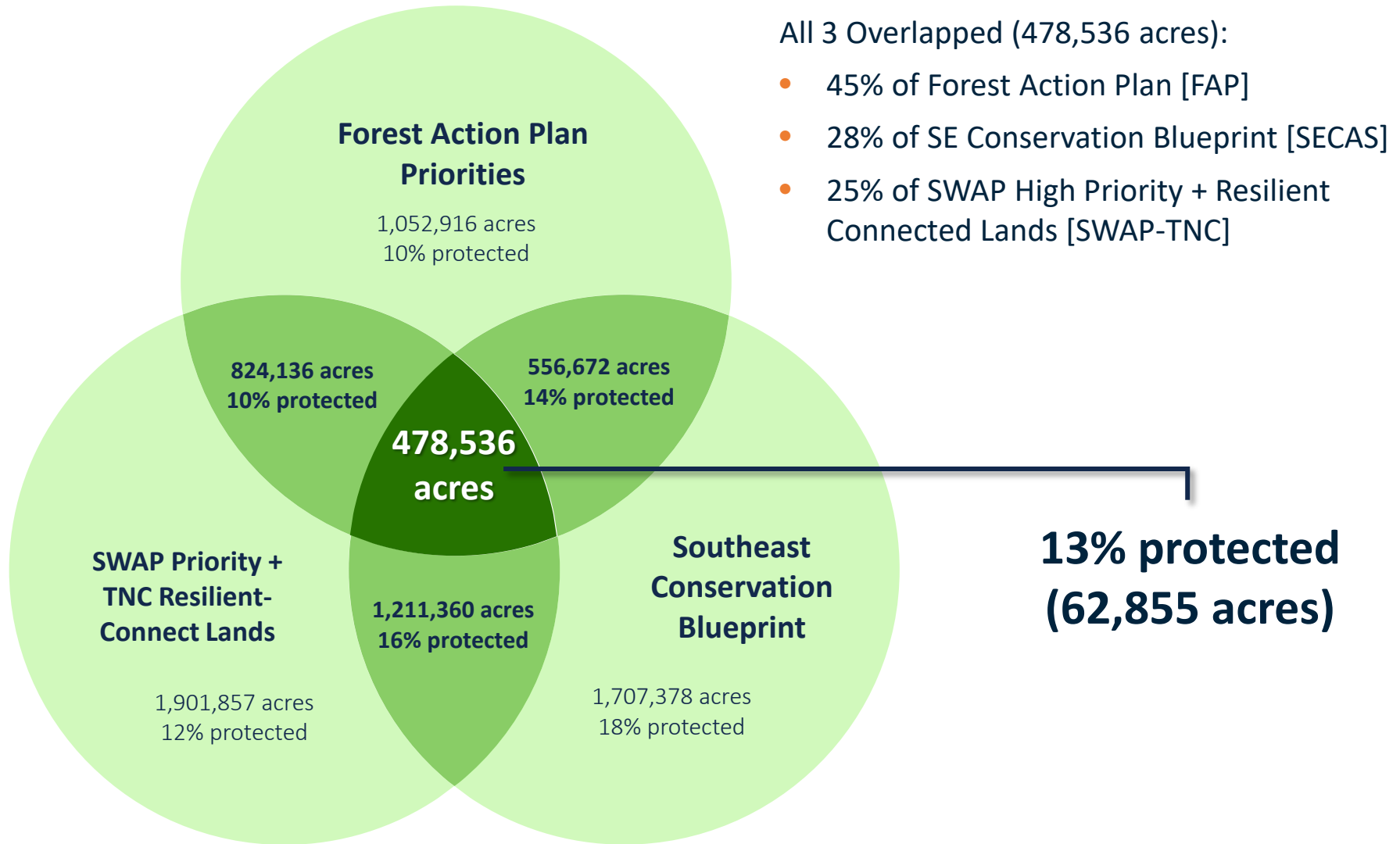






Conservation Planning Priorities & Protected Lands: Overlaps

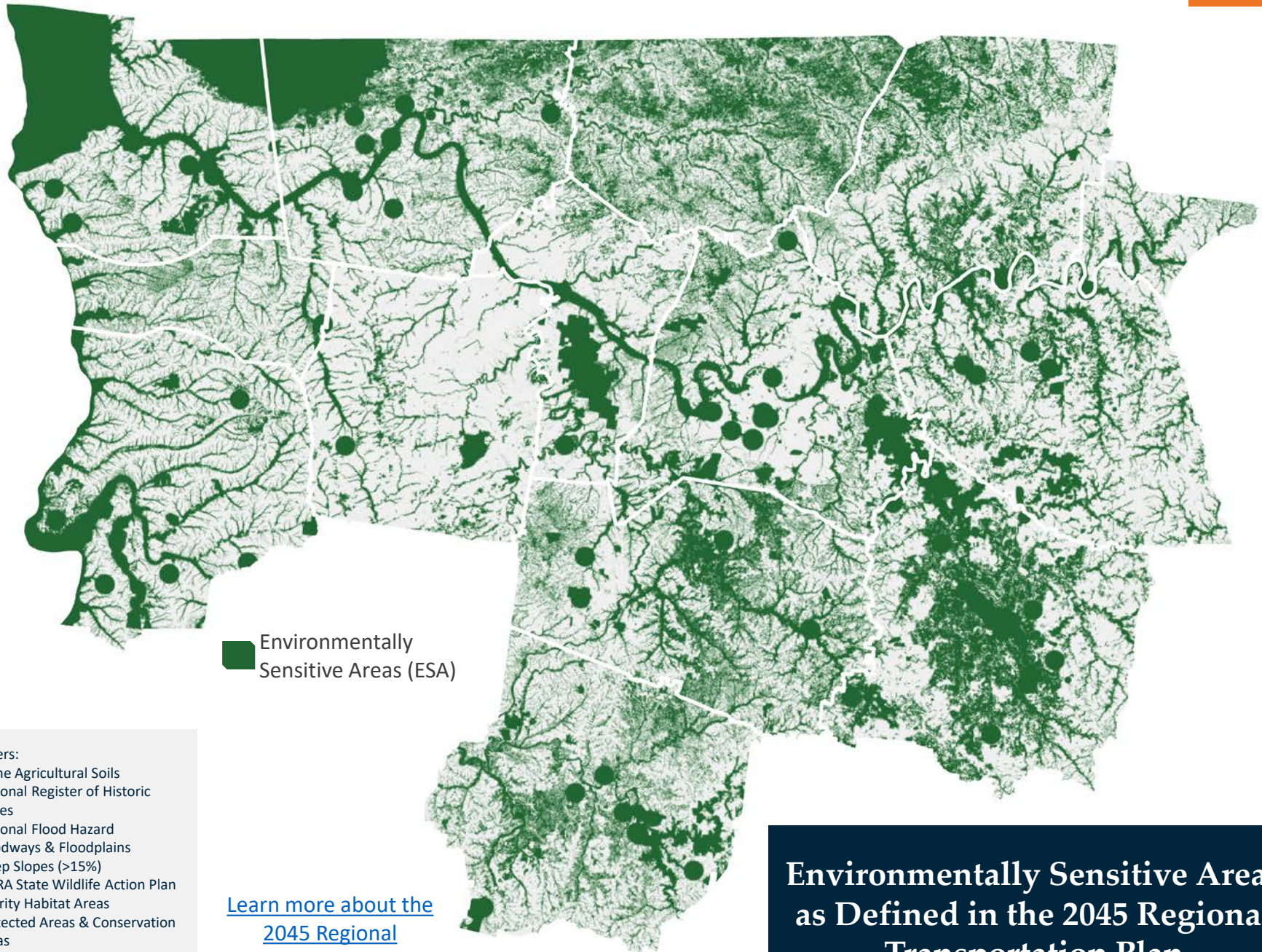
Conservation Priorities: Currently Protected



Conservation Priorities & Protected Areas

	Geography	Acres	% Currently Protected	Threatened, Unprotected	% Threatened, Unprotected	Threatened, Currently Protected	% Threatened, Currently Protected
All 3 Layers Overlap	SECAS + FAP + SWAP-TNC	478,536	13%	51,962	10.9%	2,313	0.5%
At Least 2 Layers Overlap	SECAS + SWAP-TNC	1,211,360	16%	143,729	11.9%	11,540	1.0%
	SECAS + FAP	556,672	14%	60,284	10.8%	2,843	0.5%
	FAP + SWAP-TNC	824,136	10%	121,173	14.7%	4,647	0.6%
Single Layer	SWAP-TNC	1,901,857	12%	286,003	15.0%	16,274	0.9%
	FAP	1,052,916	10%	156,579	14.9%	5,840	0.6%
	SECAS	1,707,378	18%	196,334	11.5%	22,338	1.3%
	Protected Areas	421,624	100%	-	-	35,224	8.4%

Threatened = impacted by new development changes between 2017 and 2045, not including existing development

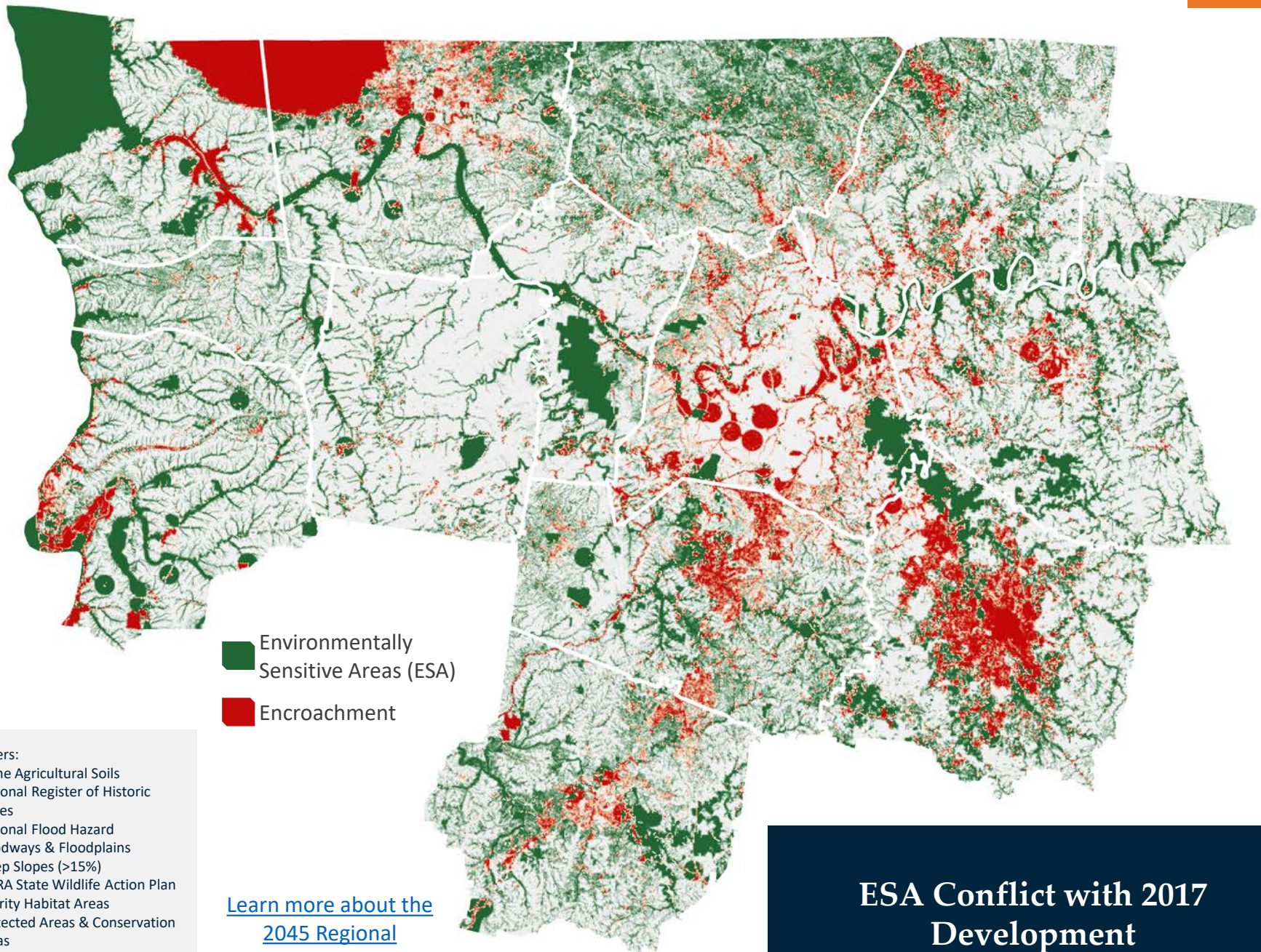


ESA Layers:

- Prime Agricultural Soils
- National Register of Historic Places
- National Flood Hazard Floodways & Floodplains
- Steep Slopes (>15%)
- TWRA State Wildlife Action Plan Priority Habitat Areas
- Protected Areas & Conservation Areas
- Surface Waters
- Wetlands

[Learn more about the
2045 Regional
Transportation Plan Here](#)

**Environmentally Sensitive Areas
as Defined in the 2045 Regional
Transportation Plan**



Explore More

Regional Transportation Plan 2021

THE PLAN | PARTICIPATE | NEWS & VIDEO | EXPLORE | FAQ

We all know
Transportation
is an Issue in
Middle Tennessee

Let's Solve This Together!

#SolveThisTogether

Play Video

First Name

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Affiliation/Organization

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Join

SolveThisTogether.org

GNRC GNRC Home Page

Open Data and Mapping Portal

What would you like to discover today?

The Greater Nashville Regional Council's Open Data and Mapping Portal offers public access to a variety of datasets, maps, and applications that are being used to help plan for growth and development across Middle Tennessee. Information in the portal is generated by GNRC's Research and Analytics Team in partnership with federal and state agencies and local governments across Middle Tennessee.

Applications and Tools

Applications and tools provide context and meaning to data. Explore how interactive mapping, story maps, county profiles and dashboards tell the story below.

Story Maps

Story maps offer a unique and immersive data experience.

Coming Soon...

Interactive Maps

Digital visualizations of geographical information.

View Examples

Community Profiles

A deep dive into measures and statistics for each community.

Coming Soon...

Public Input

Providing a platform for input from external partners.

Coming Soon...

www.GNRC.org/maps



Questions? Contact:

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