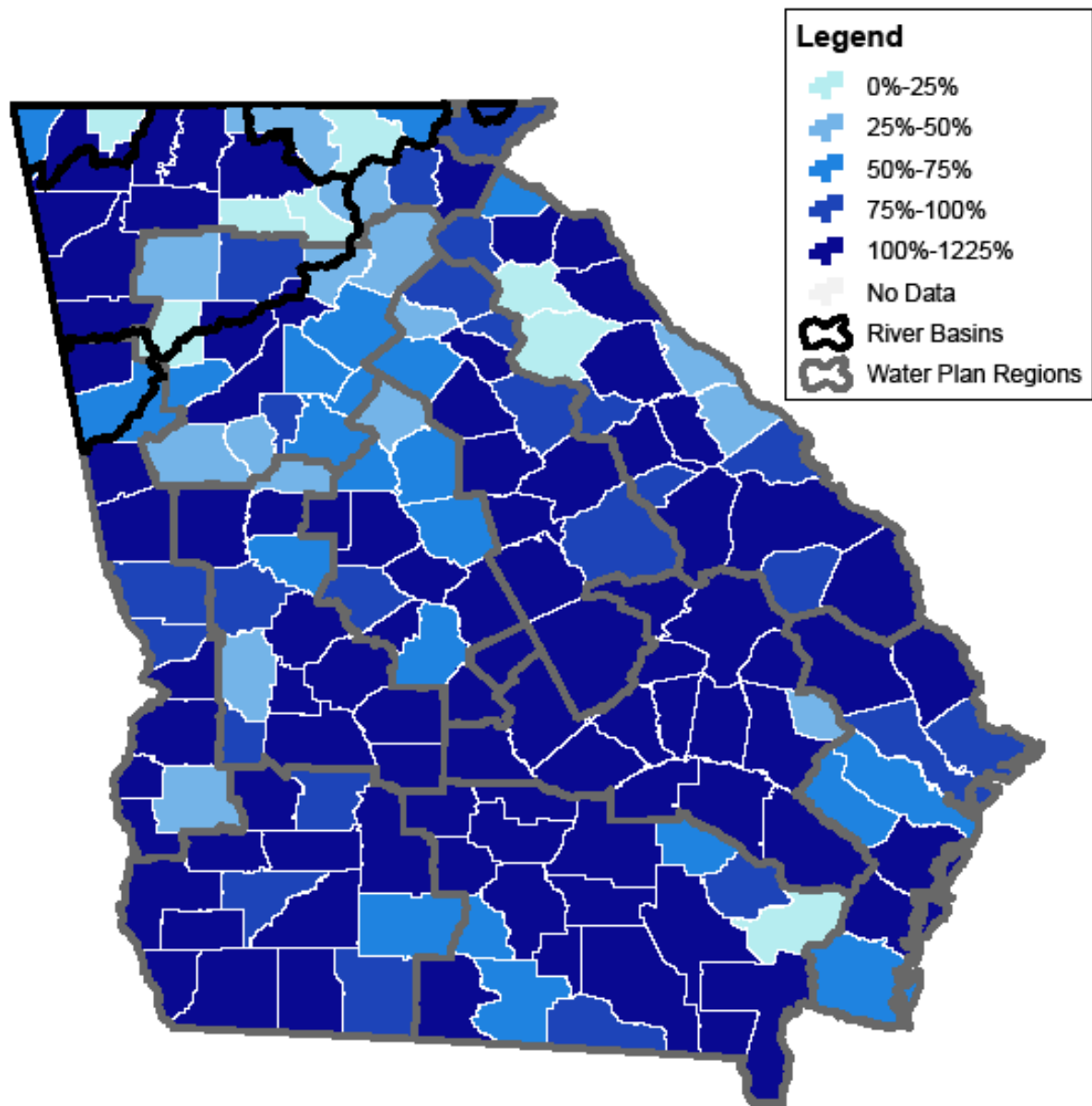


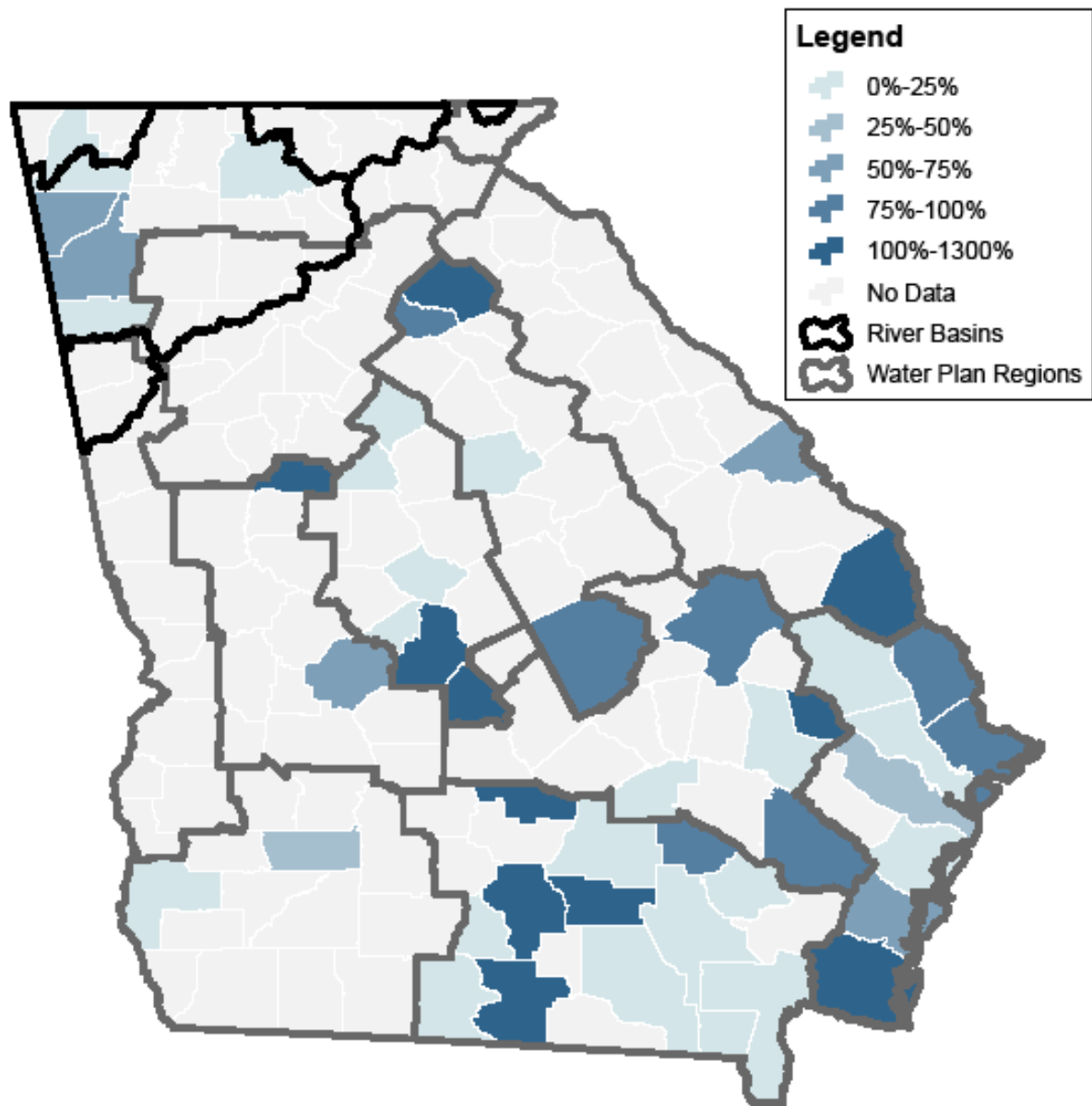


Initial Future  
Assimilative Capacity  
in the  
Coosa, Tallapoosa, and Tennessee  
River Basins

# Current Permitted Municipal Infrastructure Compared to 2050 Demand in the Coosa, Tallapoosa, and Tennessee Watersheds



# Current Permitted Industrial Infrastructure Compared to 2050 Demand in the Coosa, Tallapoosa, and Tennessee Watersheds



# Permits Modeled in the Coosa River Basin

Name	Permit	County	Receiving Stream	Permitted					Notes	Watershed or Lake Model	Discharge Type
				Flow (MGD)	BOD5 (mg/l)	Ammonia (mg/l)	Dissolved Oxygen (mg/l)	Total Phosphorus (mg/l)			
Omnova Solutions	GA0000329	Gordon	Oothkalooga Creek	-----	45.5 (lbs/day)	20.5 (lbs/day)	-----	-----	For DOSAG modeling: flow assumed to be 0.15 MGD, DO assumed to be 2 mg/L	Y	Industrial
Pilgrims Pride (GoldKist)	GA0000728	Cherokee	Etowah River	-----	88 (lbs/day)	69 (lbs/day)	5	3,000 (lbs/year)	For DOSAG modeling: flow assumed to be 0.175 MGD	N	Industrial
Geospecialty Chemicals	GA0001708	Polk	Cedar Creek	-----	135.1 (lbs/day)	66 (lbs/day)	6	-----	Seasonal limits. Limits are for April - November. Flow assumed to be 0.36 MGD. The ammonia limit is daily maximum (no daily average limit). In addition to BOD5 and NH3 limits, the facility also has a UOD limit of 525 lb/day (daily average) for Apr-Nov and is calculated using the formula in the permit. UOD=3.5*BOD <sub>5</sub> +4.6*NH <sub>3</sub> .	Y	Industrial
Bartow County-Two Run Creek	GA0020702	Bartow	Two Run Creek	0.1	30	17.4	6	-----		Y	Municipal
Ellijay WPCP	GA0021369	Gilmer	Coosawatee River	4	30	17.4	5	0.75		N	Municipal/ Industrial
Cedartown WPCP	GA0024074	Polk	Cedar Creek	3.5	10	2	6	Report	Seasonal limits.	Y	Municipal/ Industrial
Mohawk Industries	GA0024104	Chattooga	Chattooga River	-----	400 (lbs/day)	-----	3	-----	For DOSAG modeling: flow assumed to be 2.6 MGD, NH3 assumed to be 17.4 mg/L	N	Industrial
Cobb County-Noonday Creek WPCP	GA0024988	Cobb	Noonday Creek	20	6	1.2	6	10,960 (lbs/day)		N	Municipal/ Industrial
Trion WPCP	GA0025607	Chattooga	Chattooga River	5	26	8.5	5	Monitor	* IDOD = 8 mg/L looking at LtBOD analysis for Trion's effluent. Effluent DO reported on DMR was 18.42.	N	Municipal/ Industrial
Canton WPCP	GA0025674	Cherokee	Etowah River	4	14	8.2	5	0.23		N	Municipal
Summerville WPCP	GA0025704	Chattooga	Chattooga River	2	25	10	5	Monitor		N	Municipal/ Industrial
Lafayette WPCP	GA0025712	Walker	Chattooga Creek	5	5	2.1	6	Report	Seasonal limits.	N	Municipal/ Industrial
Cave Springs WPCP	GA0025721	Floyd	Little Cedar Creek	0.22	30	17.4	2	-----		Y	Municipal
Dallas-West WPCP	GA0026026	Paulding	Weaver Creek	1	20	5	6	-----	Will be decommissioned once Dallas Pumpkinvine WWTF (GA0039241 is built).	Y	Municipal
Dallas-North WPCP	GA0026034	Paulding	Lawrence Creek	0.5	20	3	6	-----	Will be decommissioned once Dallas Pumpkinvine WWTF (GA0039241 is built).	Y	Municipal
Rockmart WPCP	GA0026042	Polk	Euharlee Creek	3	30	4.7	5	Report		Y	Municipal/ Industrial
Emerson Pond	GA0026115	Bartow	Pumpkinvine Creek	0.45	30	17.4	2	Report		Y	Municipal
Polk County Aragon WPCP	GA0026182	Polk	Euharlee Creek	0.32	30	17.4	2	Report		Y	Municipal
Woodstock-Rubes Creek WPCP	GA0026263	Cherokee	Rubes Creek	2.5	5	3	6	28.6 (kg/mo)		N	Municipal
Big Canoe WPCP	GA0030252	Pickens	Blackwell Creek, tributary to East Branch	0.25	10	Report	6	1	For DOSAG modeling: NH3 assumed to be 17.4 mg/L	N	Municipal
Jasper-East WPCP	GA0032204	Pickens	Polecat Branch	0.8	20	5	5	-----		N	Municipal
Chatsworth - Judson F. Vick WPCP	GA0032492	Murray	Holly Creek	3	5	2	6	Report	Seasonal limits.	Y	Municipal/ Industrial
Adairsville-South WPCP	GA0032832	Bartow	Oothkalooga Creek	0.5	30	10	5	Report		Y	Municipal
Fulton County-Little River WPCP	GA0033251	Cherokee	Little River	1	8.5	1.7	6	0.5		N	Municipal

# Permits Modeled in the Coosa River Basin

Name	Permit	County	Receiving Stream	Permitted					Notes	Watershed or Lake Model	Discharge Type
				Flow (MGD)	BOD5 (mg/l)	Ammonia (mg/l)	Dissolved Oxygen (mg/l)	Total Phosphorus (mg/l)			
Cherokee County-Fitzgerald Creek WPCP	GA0038555	Cherokee	Little River	11.75	4	1.5	6	0.14		N	Municipal/Industrial
Dalton Utilities-Mill Creek WPCP	GA0038946	Whitfield	Mill Creek, tributary to Coahulla Creek	0.15	20	4	5	6		N	Municipal
Paulding County-Pumpkinvine Creek	GA0039021	Paulding	Pumpkinvine Creek	1.5	5	0.5	6	1.0		N	Municipal/Industrial
Adairsville-North WPCP	GA0046035	Bartow	Oothkalooga Creek	1	24	3	5	Report	Seasonal limits.	Y	Municipal
Fairmount WPCP	GA0046388	Gordon	Salacoa Creek	0.2	25	10	5	Report	Seasonal limits.	Y	Municipal
Menlo WPCP	GA0047023	Chattooga	Alpine Creek	0.1	20	8	5	-----		N	Municipal
Dallas-Pumpkinvine WWTF (Joint Dallas West + Dallas North)	GA0039241	Paulding	Pumpkinvine Creek	3	10	2	6	1	Permit issued for construction in February 2010. Dallas West and Dallas North will be decommissioned once the regional Dallas Pumpkinvine WWTF is built.		Municipal

# Permits Modeled in the Tallapoosa River Basin

Name	Permit	County	Receiving Stream	Permitted					Notes	Discharge Type
				Flow (MGD)	BOD5 (mg/L)	Ammonia (mg/L)	Dissolved Oxygen (mg/L)	Total Phosphorus (mg/L)		
Tallapoosa WPCP	GA0020982	Haralson	Tallapoosa River	1	20	10	5	-----		Municipal
Bremen Baxter Creek WPCP	GA0021008	Haralson	Baxter Creek	0.2	30	-----	5	-----	For DOSAG modeling: NH3 assumed to be 17.4 mg/L	Municipal
Buchanan WPCP #1	GA0021512	Haralson	Cochran Creek Tributary	0.17	20	-----	5	-----	For DOSAG modeling: NH3 assumed to be 17.4 mg/L	Municipal
Bowdon WPCP	GA0023493	Carroll	Indian Creek Tributary	0.4	30	-----	5	-----	For DOSAG modeling: NH3 assumed to be 17.4 mg/L	Municipal
Villa Rica West	GA0027162	Carroll	Little Tallapoosa River	0.78	20	3	6	-----		Municipal
Bremen - Buck Creek WPCP	GA0037435	Haralson	Buck Creek	0.9	30	1.4	5	-----		Municipal
Bowdon WTP Discharge	GAG640000	Carroll	Turkey Creek	0	-----	-----	-----	-----	Storm Water	Municipal
Bremen/Turkey Creek WPCP(0.8 LAS)	GA02-142	Haralson	Turkey Creek	0	-----	-----	-----	-----	LAS, used for model calibration	Municipal



# Permits Modeled in the Tennessee River Basin

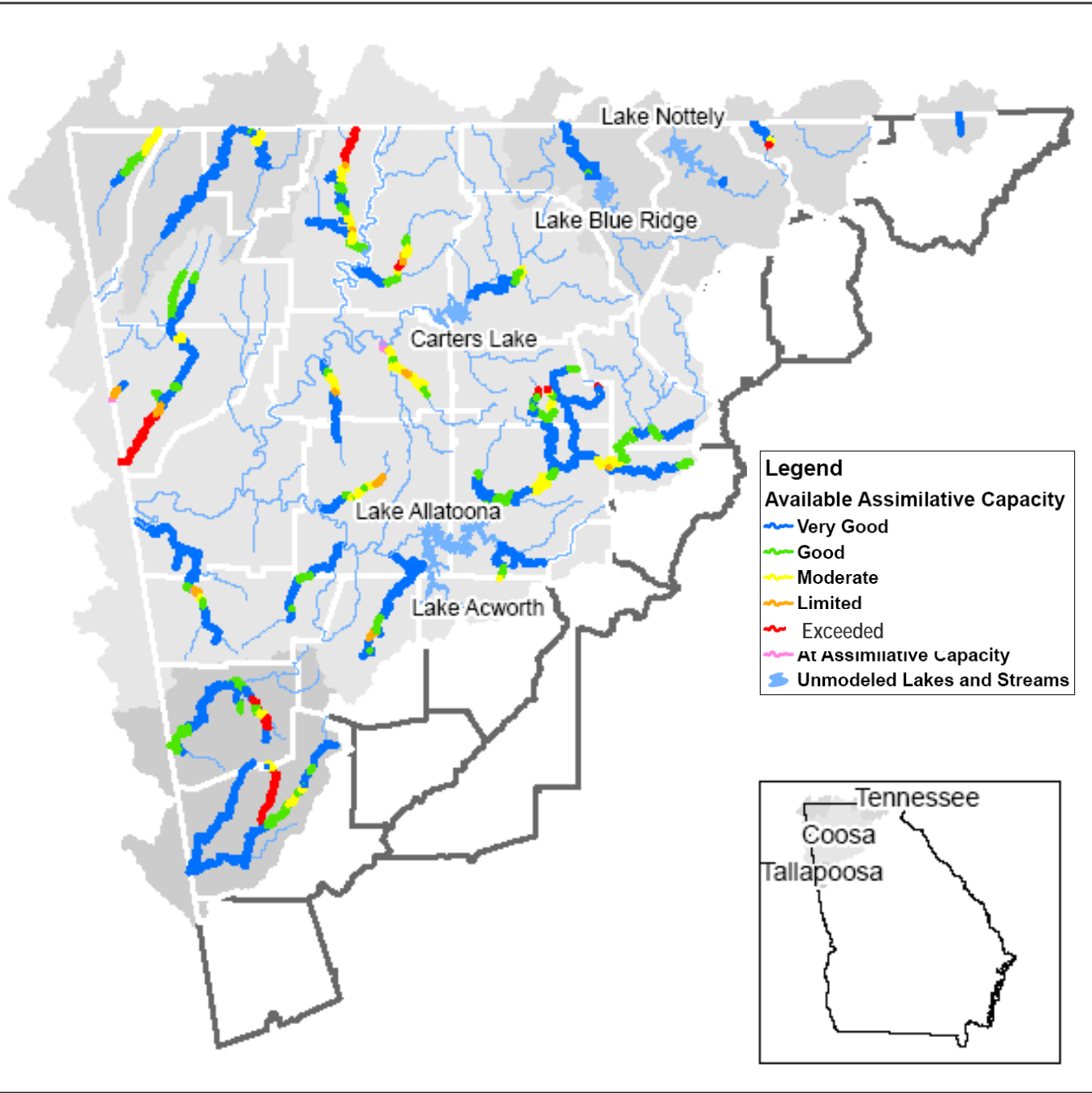
Name	Permit	County	Receiving Stream	Permitted					Notes	Discharge Type
				Flow (MGD)	BOD5 (mg/L)	Ammonia (mg/L)	Dissolved Oxygen (mg/L)	Total Phosphorus (mg/L)		
Tallapoosa WPCP	GA0020982	Haralson	Tallapoosa River	1	20	10	5	-----		Municipal
Bremen Baxter Creek WPCP	GA0021008	Haralson	Baxter Creek	0.2	30	-----	5	-----	For DOSAG modeling: NH3 assumed to be 17.4 mg/L	Municipal
Buchanan WPCP #1	GA0021512	Haralson	Cochran Creek Tributary	0.17	20	-----	5	-----	For DOSAG modeling: NH3 assumed to be 17.4 mg/L	Municipal
Bowdon WPCP	GA0023493	Carroll	Indian Creek Tributary	0.4	30	-----	5	-----	For DOSAG modeling: NH3 assumed to be 17.4 mg/L	Municipal
Villa Rica West	GA0027162	Carroll	Little Tallapoosa River	0.78	20	3	6	-----		Municipal
Bremen - Buck Creek WPCP	GA0037435	Haralson	Buck Creek	0.9	30	1.4	5	-----		Municipal
Bowdon WTP Discharge	GAG640000	Carroll	Turkey Creek	0	-----	-----	-----	-----	Storm Water	Municipal
Bremen/Turkey Creek WPCP(0.8 LAS)	GA02-142	Haralson	Turkey Creek	0	-----	-----	-----	-----	LAS, used for model calibration	Municipal

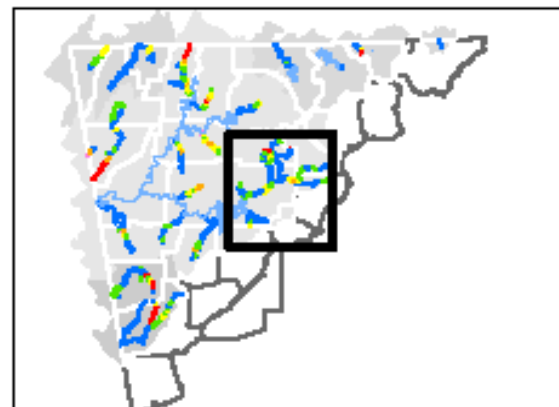
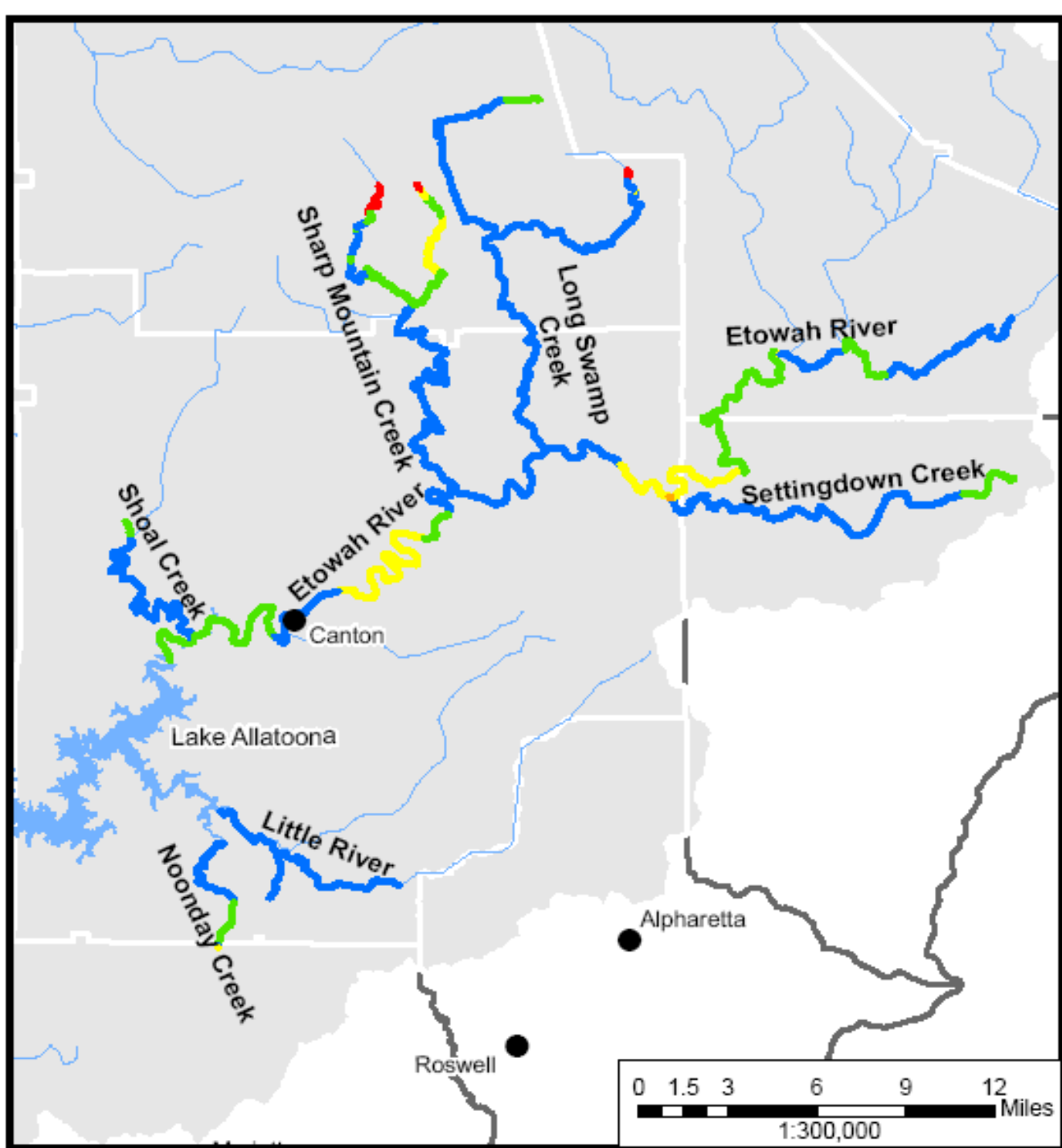


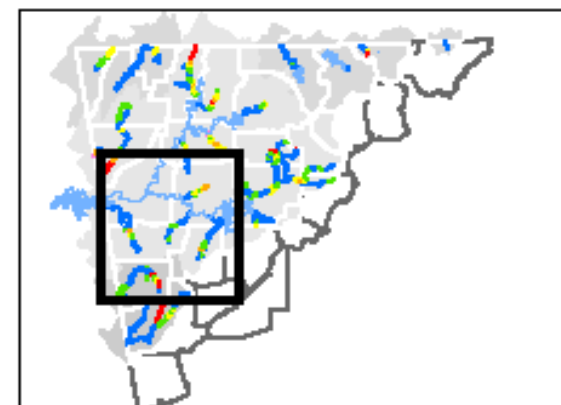
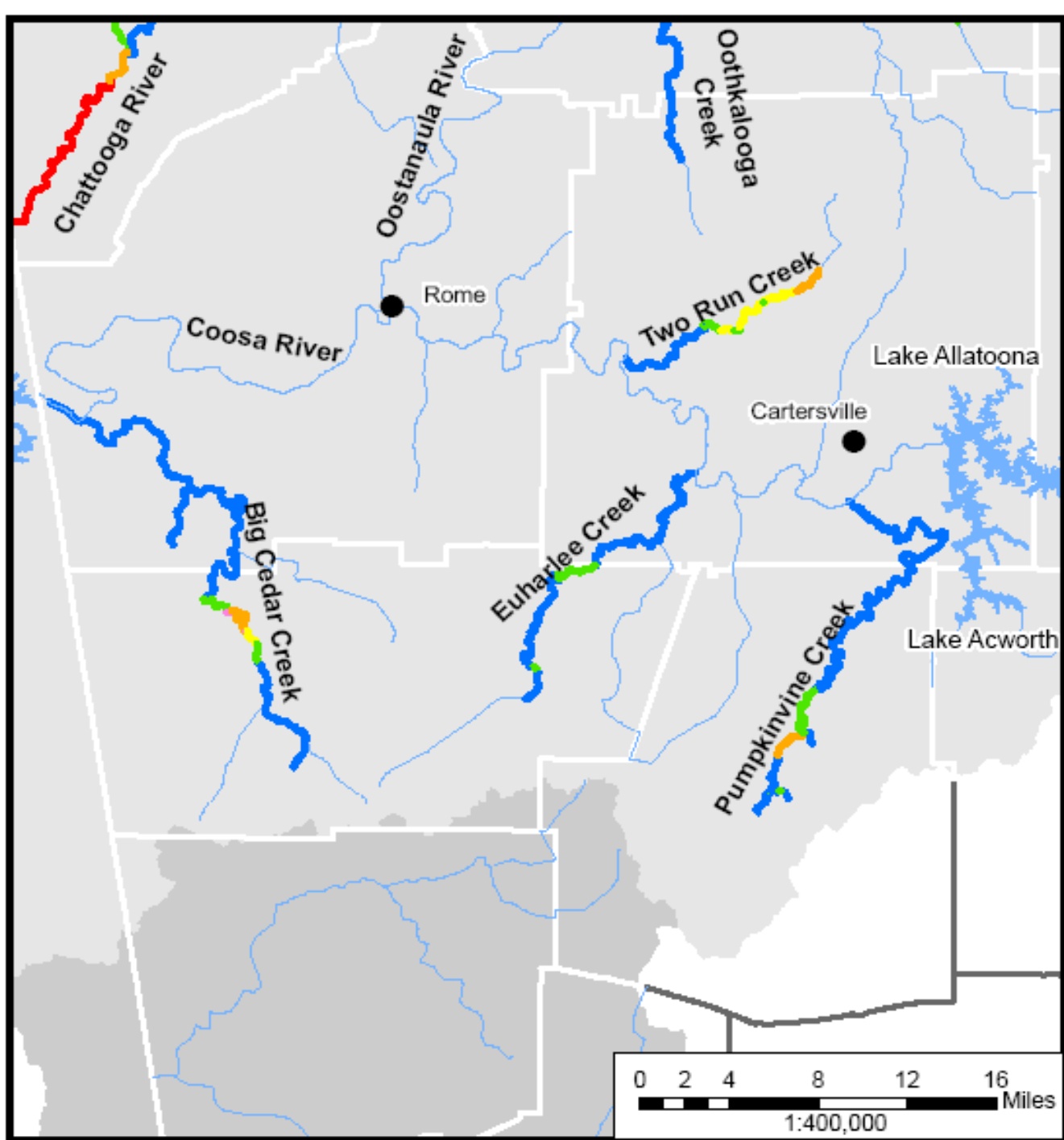
# Available Assimilative Capacity in the Coosa, Tallapoosa, Tennessee River Basins

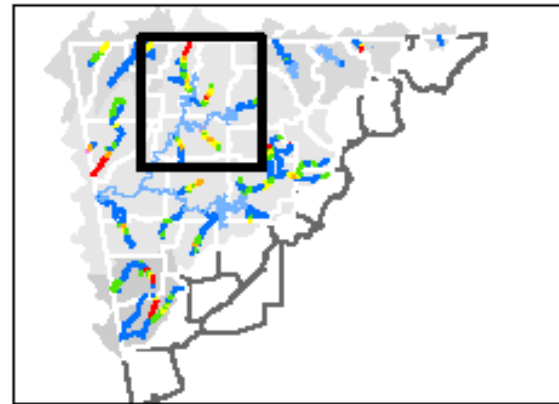
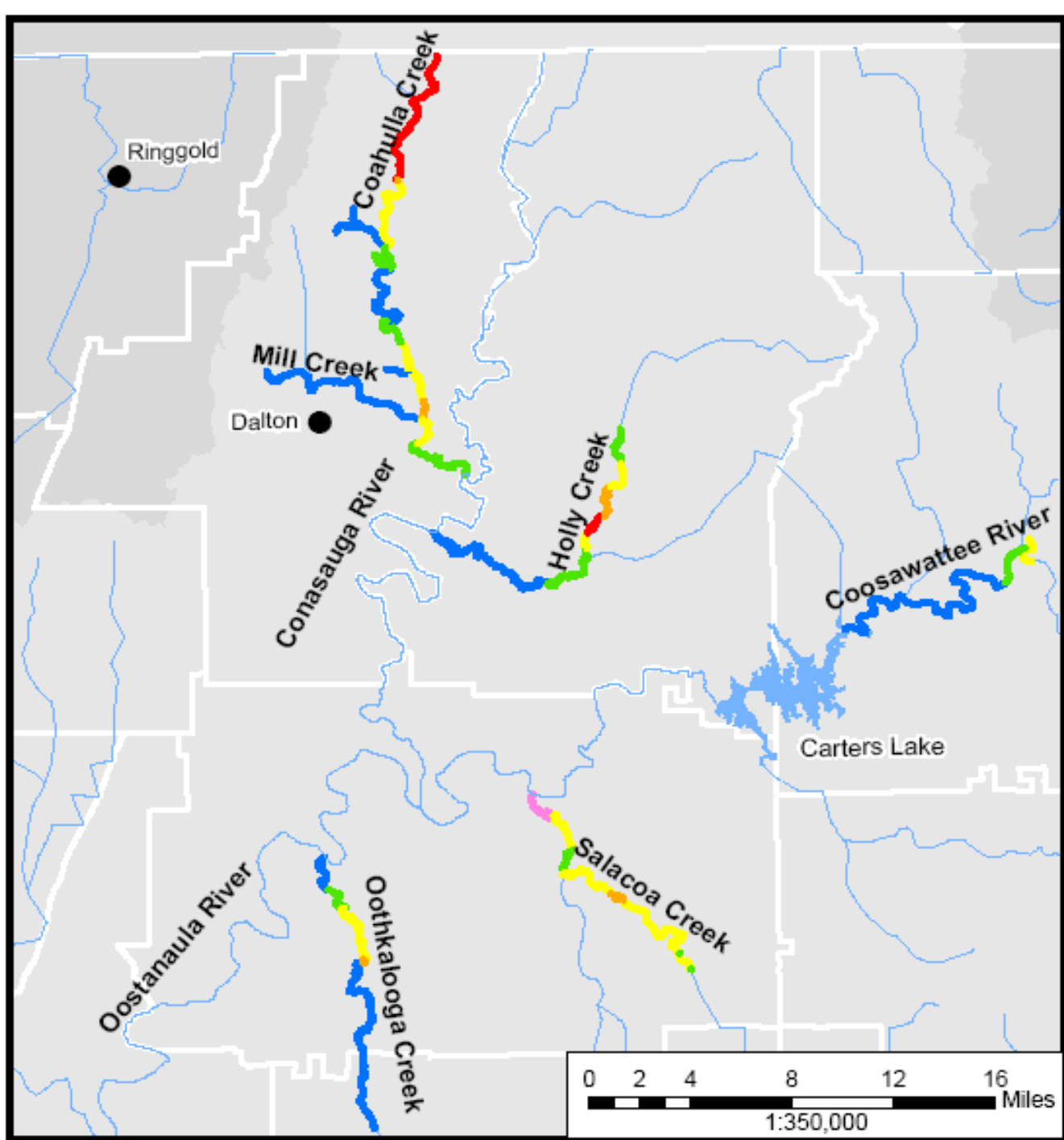
Model Run	Basin	Available Assimilative Capacity (Total Mileage)				
		Very Good	Good	Moderate	Limited	None or Exceeded
Baseline	Coosa	295	87	43	12	9
	Tallapoosa	81	27	5	2	6
	Tennessee	82	9	0	2	0
Permitted	Coosa	280	75	53	13	25
	Tallapoosa	65	35	7	9	19
	Tennessee	77	7	9	0	0.3

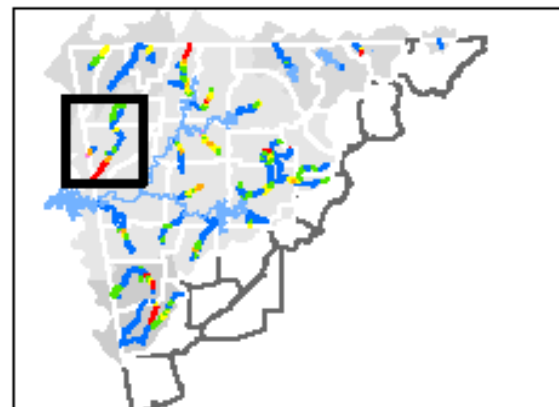
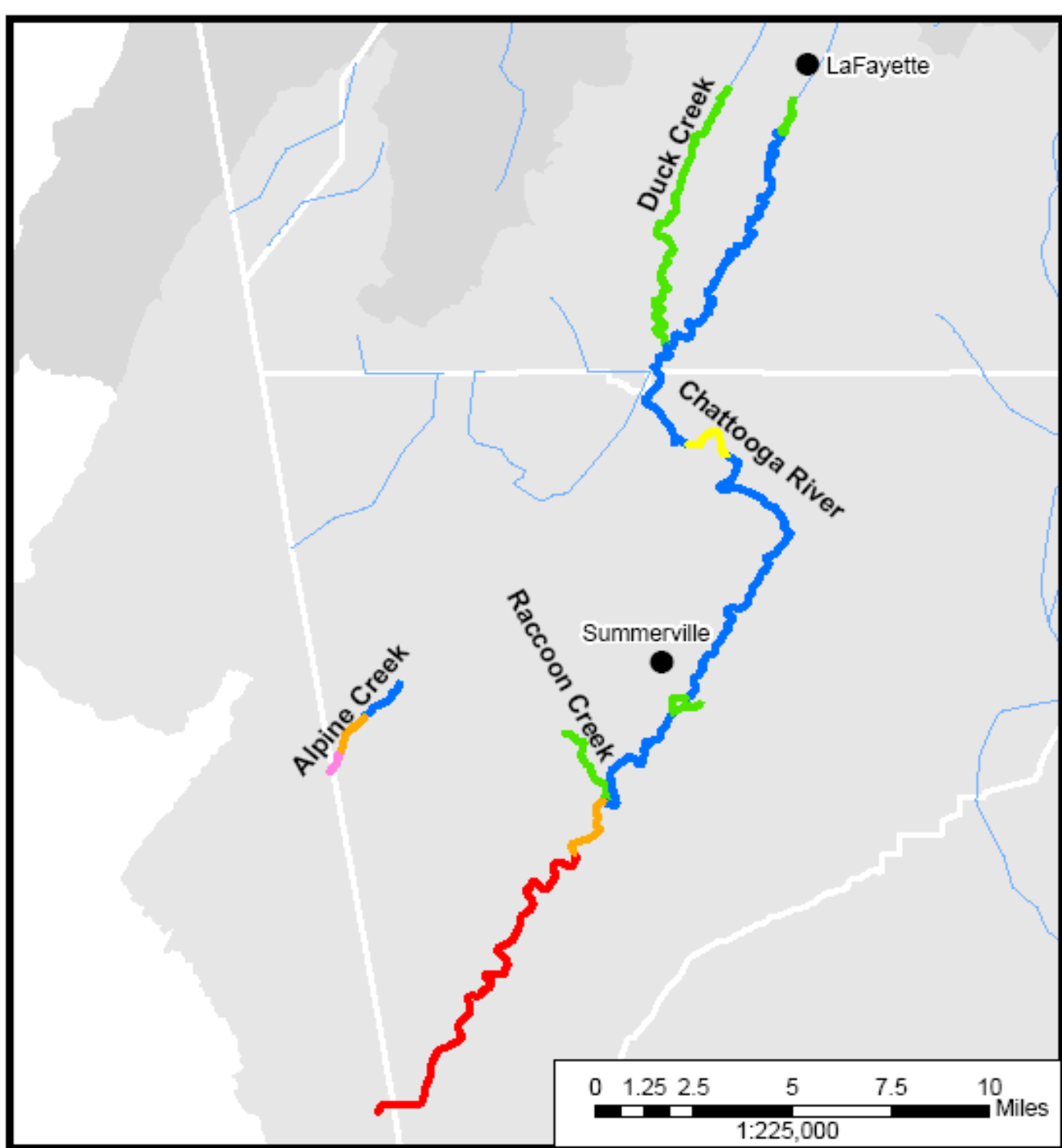


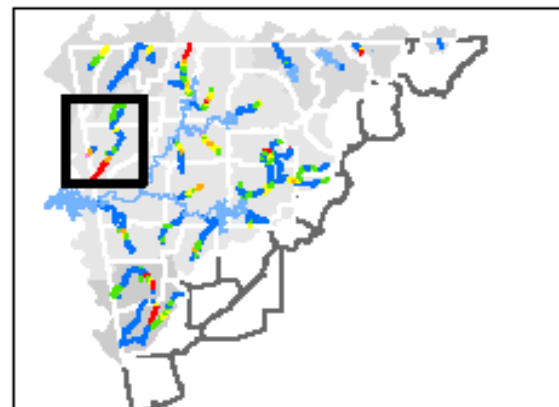
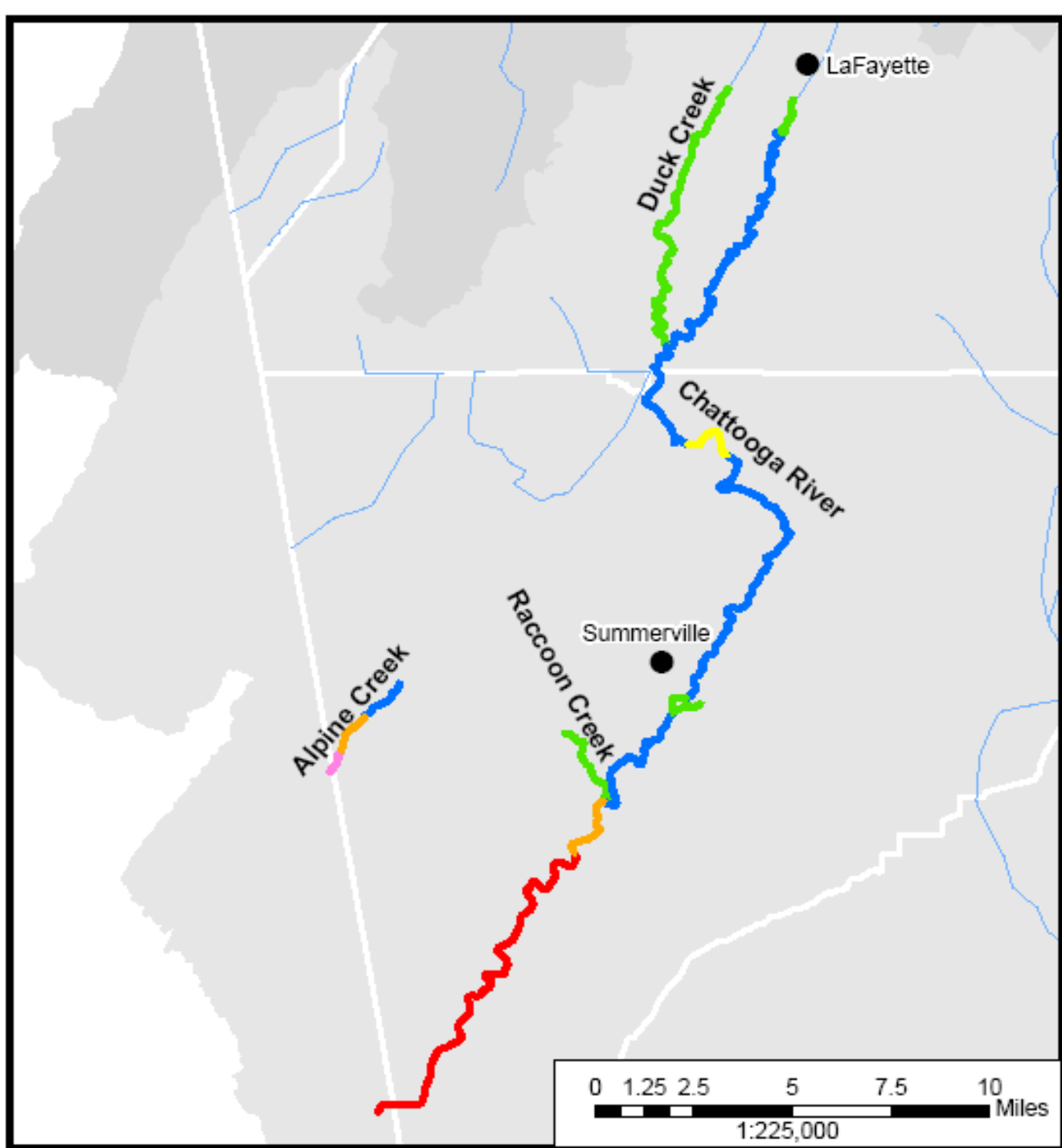








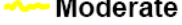

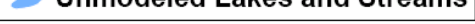


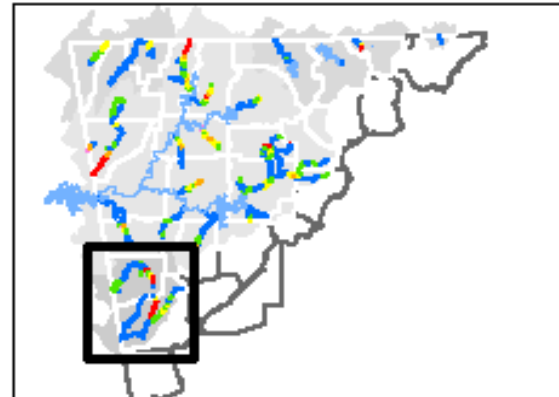
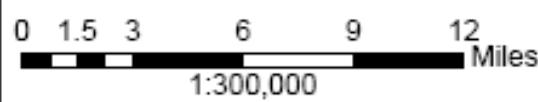
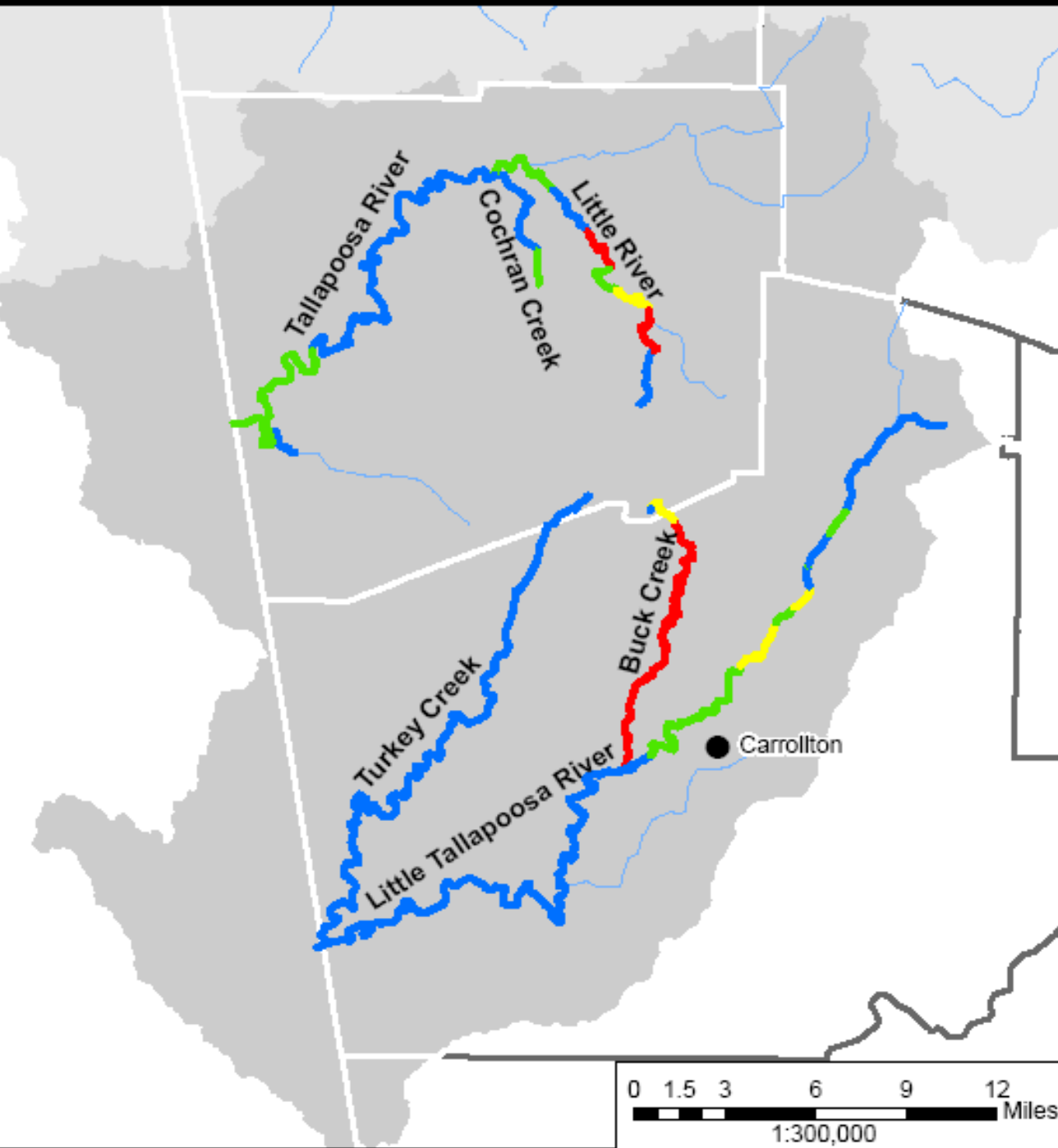




### Legend

#### Available Assimilative Capacity

-  Very Good
-  Good
-  Moderate
-  Limited
-  Exceeded
-  At Assimilative Capacity
-  Unmodeled Lakes and Streams



### Legend

#### Available Assimilative Capacity

Very Good

Good

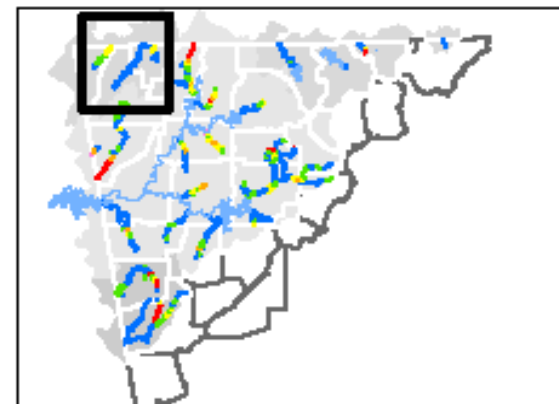
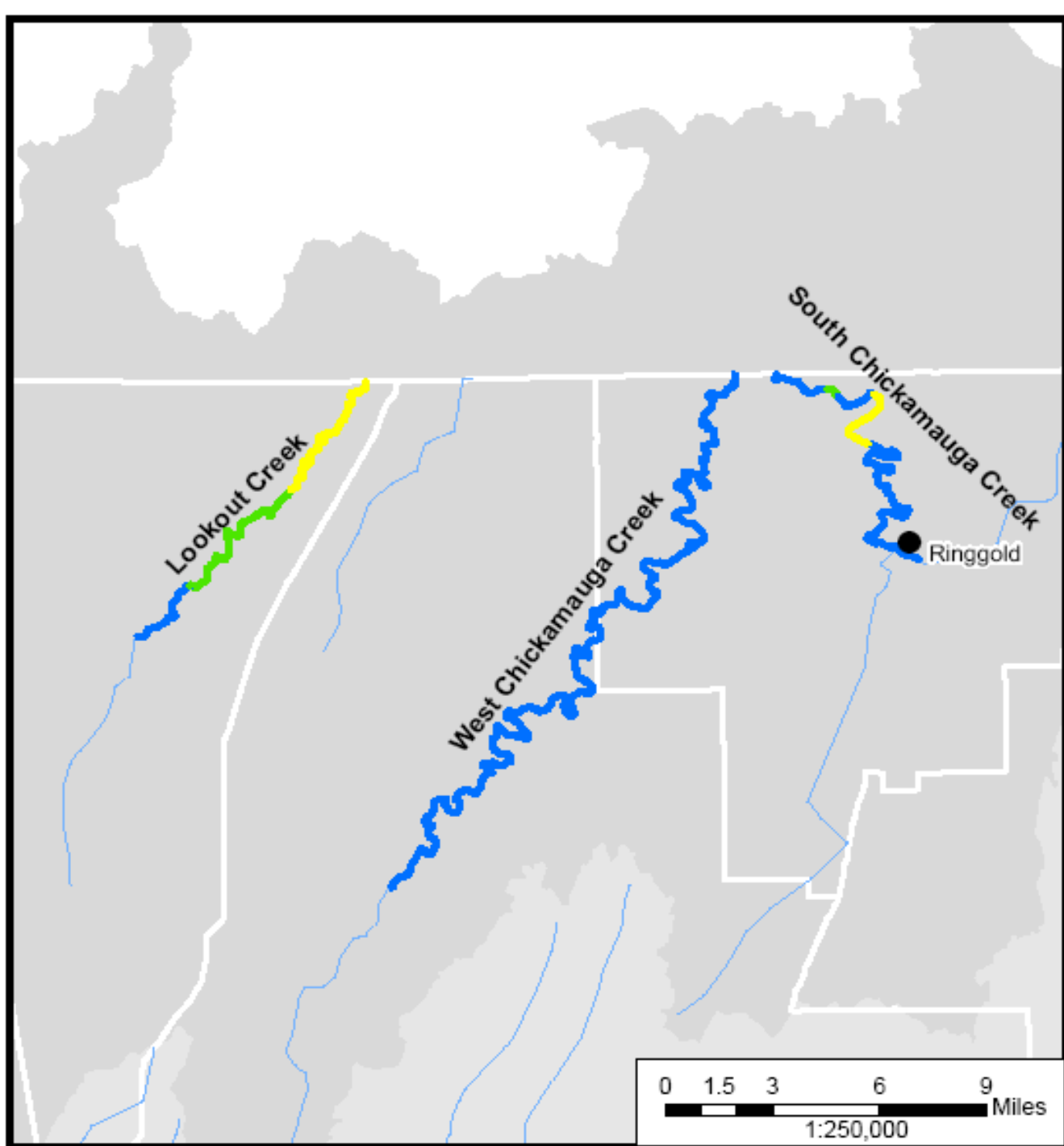
Moderate

Limited

Exceeded

At Assimilative Capacity



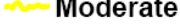



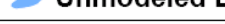
Unmodeled Lakes and Streams

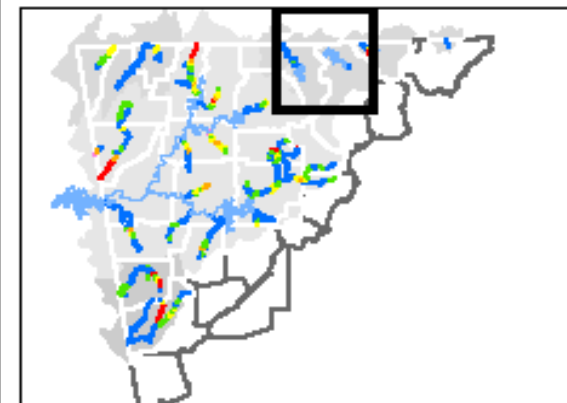
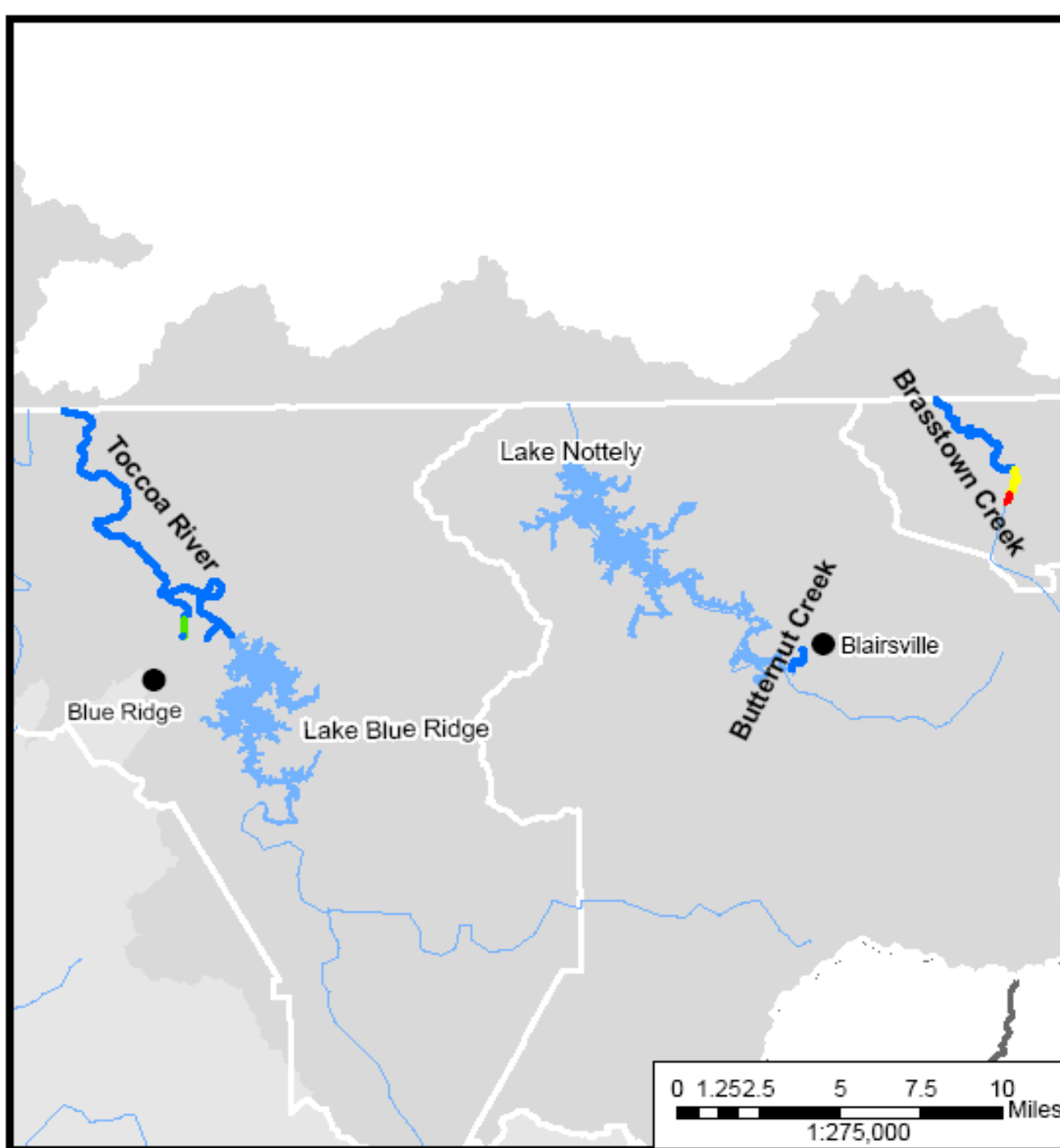


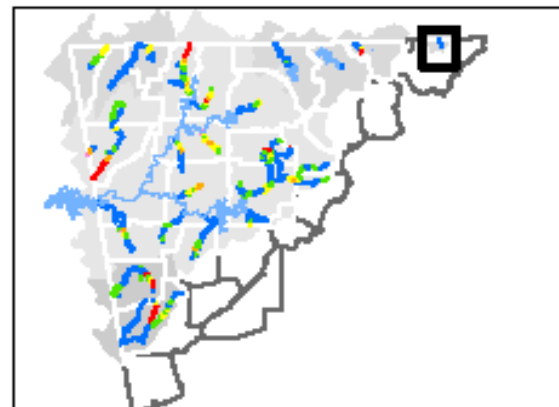
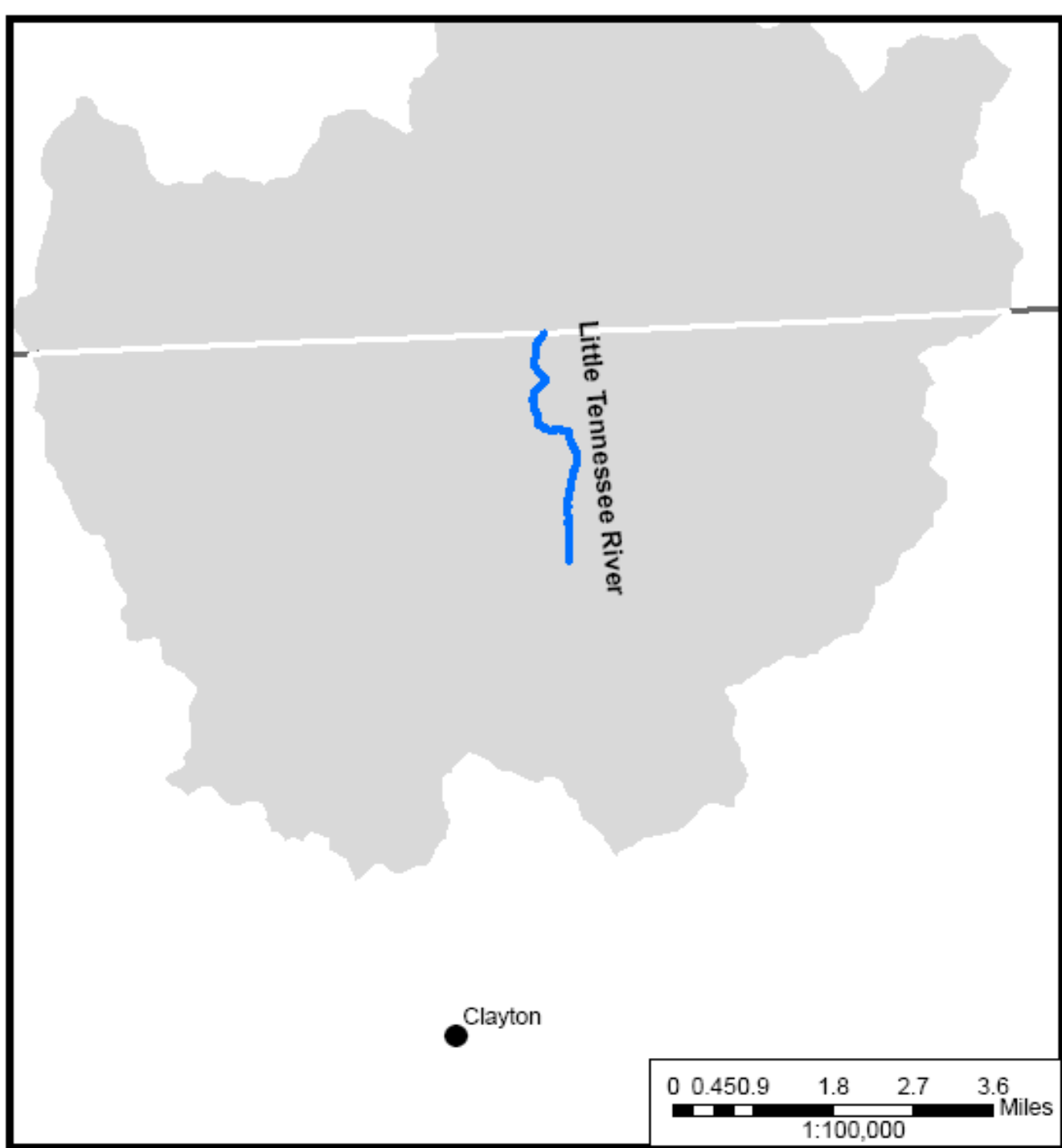


### Legend

#### Available Assimilative Capacity

-  Very Good
-  Good
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Questions?