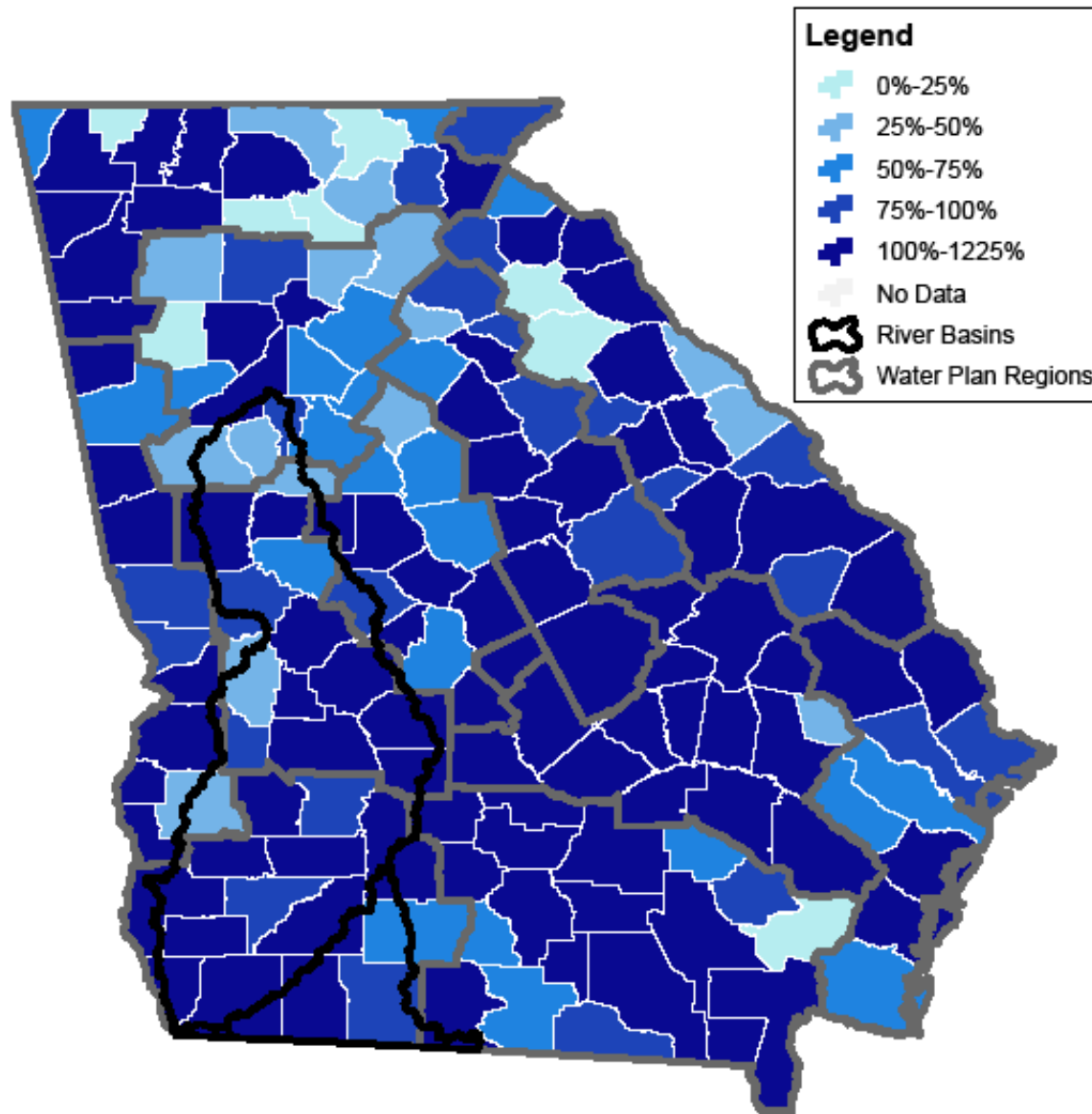


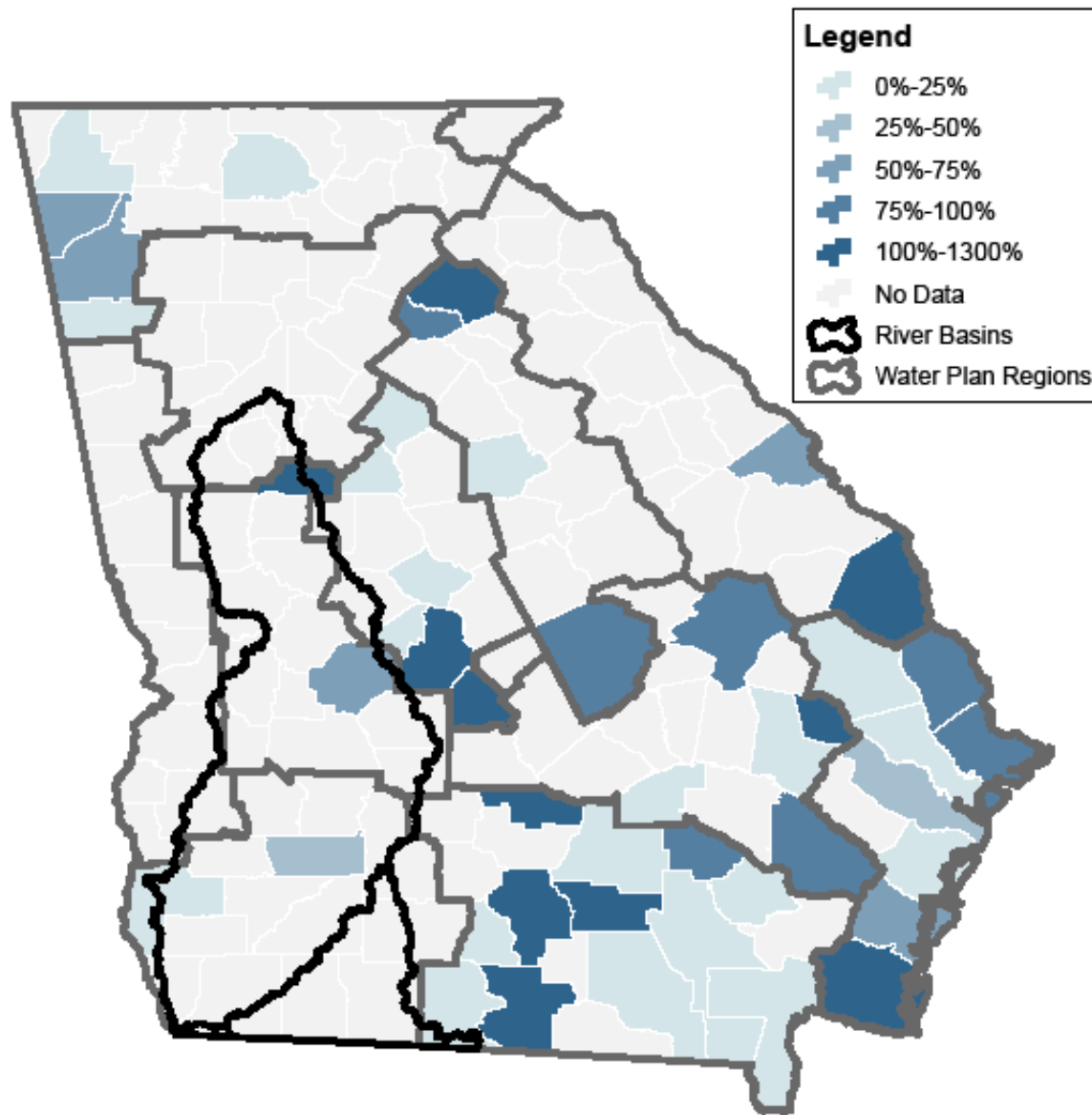


Initial Future Assimilative Capacity in the Flint and Ochlockonee River Basins

Current Permitted Municipal Infrastructure Compared to 2050 Demand in the Flint and Ochlockonee Watersheds



Current Permitted Industrial Infrastructure Compared to 2050 Demand in the Flint and Ochlockonee Watersheds



Permits Modeled in the Flint 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)			
Taylor County Board of Commissioners	GA0000302	Taylor	Horse Creek	0.120	30	-----	-----	-----	For DOSAG modeling: NH3 assumed to be 17.4 mg/L, DO assumed to be 2 mg/L		Municipal
Tyson Foods (see note below)	GA0000817	Marion	Muckalee Creek	0.704	16	4	6	-----	According to Tom Hopkins, the design flow for Tyson is their long-term average. Also, the Permit file is missing, so we couldn't look at their application. Did an average from Jan-07 thru May-08 (the latest DMRs in the files).	N	Industrial
Warm Springs WPCP	GA0001601	Meriwether	Warm Springs Branch	0.400	20	5	5	-----	Seasonal Limit	N	Municipal
Thomaston Bell Creek WPCP	GA0020079	Upson	Potato Creek Tributary	2.000	30	13	5	-----	Seasonal Limit	N	Municipal
Hampton WPCP	GA0020320	Henry	Bear Creek	1.75	10	2.7	6	1.0			Municipal
Griffin - Shoal Creek WPCP	GA0039063	Spalding	Shoal Creek	1.25	9	1.5	6	1.0	DDR, Permitted, Project on Hold; will be modeled		Municipal
Montezuma WPCP #2	GA0020486	Macon	Spring Creek	1.950	20	4.00	5	Report		N	Municipal
Reynolds WPCP #1	GA0020729	Taylor	Patsiliga Creek	0.160	30	-----	-----	-----	For DOSAG modeling: NH3 assumed to be 17.4 mg/L, DO assumed to be 5 mg/L	N	Municipal
Roberta WPCP	GA0020834	Crawford	Culpepper Creek tributary	0.440	30	17.40	5	-----		N	Municipal
Plains WPCP	GA0020931	Sumter	Passell Creek	0.120	30	Report	5	-----		N	Municipal
Dawson WPCP	GA0021326	Terrell	Brantley Creek	2.500	10	2.00	6	Report		N	Municipal
Richland Pond #1 WPCP	GA0021539	Stewart	Bear Creek tributary	0.300	18	5.00	5	-----		N	Municipal
Buena Vista WPCP	GA0023710	Marion	Oochee Creek	0.500	25	10.00	5	-----		N	Municipal
Cordele WPCP	GA0024503	Crisp	Gum Creek	5.000	11	2.00	6	Report		N	Municipal
Concord #1 WPCP	GA0025470	Pike	Elkins Creek	0.100	30	-----	5	-----	For DOSAG modeling: NH3 assumed to be 17.4 mg/L	N	Municipal
Blakely Plant Street WPCP	GA0025585	Early	Baptist Branch tributary	2.0	17	1	6	1.0	Seasonal Limit	N	Municipal
Byromville Pond	GA0025623	Dooly	Turkey Creek	0.104	30	-----	-----	-----	For DOSAG modeling: NH3 assumed to be 17.4 mg/L, DO assumed to be 2 mg/L	N	Municipal
Donalsonville WPCP	GA0026123	Seminole	Fish Pond Drain	0.400	30	0.70	6	Report		N	Municipal
Arlington #1	GA0026204	Early	Perry Creek Tributary	0.100	30	-----	-----	-----	Plans to eventually expand Arlington Pond #1 and connect Arlington Pond #2 to Pond #1	N	Municipal
Leary WPCP	GA0026212	Calhoun	Keel Creek	0.100	30	-----	-----	-----	For DOSAG modeling: NH3 assumed to be 17.4 mg/L, DO assumed to be 2 mg/L	N	Municipal
Lee High Acres WTF	GA0026603	Lee	Kinchafoonee Creek	1.000	5	2	2	NL		N	Municipal
Leesburg WTF	GA0026638	Lee	Kinchafoonee Creek	1.2	10	2	6	1.0		N	Municipal
Thomaston Town Branch	GA0030121	Upson	Potato Creek Tributary	2.000	13	17.4	5.0	-----	Seasonal Limit	N	Municipal

Permits Modeled in the Flint 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)			
Griffin Big Potato Creek WPCP	GA0030791	Lamar	Potato Creek	3.00	9	0.7	6	1.0	Seasonal Limit	N	Municipal
Blakely Pond A	GA0031968	Early	Blue Creek Tributary to Dry	0.12	30	1.3	6	-----	Blakely facilities Pond A and Pond B scheduled to be decommissioned and flows of both go to Blakely Plant Street WPCP (GA0025585)	N	Municipal
Blakely Pond B	GA0031976	Early	Blue Creek Tributary to Dry	0.12	30	1.3	6	-----	Blakely facilities Pond A and Pond B scheduled to be decommissioned and flows of both go to Blakely Plant Street WPCP (GA0025585)	N	Municipal
Shellman WPCP	GA0032361	Randolph	Ichawaynochaway Creek tributary	0.15	30	-----	5	-----	For DOSAG modeling: NH3 assumed to be 17.4 mg/L	N	Municipal
Peachtree City Line Creek WPCP	GA0035777	Coweta	Line Creek	0.90	8	2	6			N	Municipal
Fayetteville WPCP	GA0035807	Fayette	Whitewater Creek	5	7.5	1.5	6	Report			Municipal
Oglethorpe WPCP	GA0036919	Macon	Flint River	0.750	25	17.4	2	Report		N	Municipal
Cuthbert	GA0037249	Randolph	Town Branch-Carter Creek	0.600	30	3	6	-----		N	Municipal
Edison WTF	GA0037427	Calhoun	Bay Branch	0.250	20	5	5	-----	Seasonal Limit	N	Municipal
Clayton County - Shoal Creek WPCP May-Oct	GA0038369	Clayton	Shoal Creek Reservoir	4.400	10	4	6	2	Seasonal Limit Not modeled, this facility discharges directly into Shoal Creek Reservoir		Municipal
Shenandoah WPCP	GA0038822	Coweta	Tributary to White Oak Creek	2.000	4.8	1	1	6.0	Replaces old permit No. GA0034614	N	Municipal
Peachtree City Rockaway WPCP	GA0046655	Fayette	Line Creek Tributary	4.000	7.5	2	6	-----			Municipal
Colquitt WPCP	GA0047252	Miller	Spring Creek	0.400	30	15	5	-----		N	Municipal
Smithville WPCP	GA0047422	Lee	Muckaloochee Creek	0.120	30	17.4	2	-----		N	Municipal
Marshallville WPCP	GA0047431	Macon	Spring HillCreek	0.120	30	10	5	-----		N	Municipal
Americus WPCP	GA0047767	Sumter	Mill Creek	4.400	25	8.7	5	Report		N	Municipal
Talbotton WPCP	GA0047805	Talbot	Edwards Creek tributary	0.100	30	6	5.5	-----		N	Municipal
Greenville WPCP	GA0047813	Meriwether	Kennel Creek	0.250	30	-----	5	-----	For DOSAG modeling: NH3 assumed to be 17.4 mg/L	N	Municipal
Super 8 Motel	GA0048933	Crisp	Gum Creek	0.025	30	-----	-----	-----	Cordele Inn For DOSAG modeling: NH3 assumed to be 17.4 mg/L, DO assumed to be 2 mg/L	N	Industrial

Permits Modeled in the Flint 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)			
Weyerhaeuser Company	GA0049336	Macon	Flint River	-----	4,826 (lbs/day)	-----	-----	-----	Seasonal Limit For DOSAG modeling: flow 9.4 MGD, NH3 assumed to be 17.4 mg/L, DO assumed to be 2 mg/L	N	Industrial
Zebulon WPCP	GA0049476	Pike	Elkan Creek	0.286	30	-----	5	-----	Zebulon is currently operating an LAS system. Permitted discharge is for sometime in the future.		Municipal
Arlington #2 WPCP	GA0050075	Calhoun	Boggy Creek Tributary	0.060	30	-----	-----	-----	For DOSAG modeling: NH3 assumed to be 17.4 mg/L, DO assumed to be 2 mg/L Plans to eventually expand Arlington Pond #1 and connect Arlington Pond #2 to Pond #1.	N	Municipal
Ellaville WPCP	GA0050105	Schley	Little Muckalee Creek Tribu	0.400	20	5	6	1.0	Seasonal Limit	N	Municipal

Permits Modeled in the Ochlockonee 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)		
Affinity Foods (Industrial)	GA0001279	Thomas	Steam Mill Branch	-----	117.8 (lbs/day)	25 (lbs/day)	6	-----	No flow in permit. Permit in lbs/day. Currently effectively zero discharge. 0.167 MGD flow from long term 365 average in permit application	Industrial
BASF-Attapulgus (Industrial)	GA0001678	Decatur	Little Attapulgus Creek	-----	TBODU 3819 - 552 (lbs/day)	-----	6	-----	Permitted load varies with instream flow and temperature. For DOSAG modeling assumed flow of 0.45 MGD, BOD5 of 8.7 mg/L, and NH3 of 29.5 mg/L based on Sept lowest loading at 1 cfs. Permit TBODu in lbs/day. TBODu = 1.5 *(BOD5i)+ 4.6* (NH3) where BOD5i is the nitrogen-inhibited value. The flow is back calculated . Monthly load restriction for 0.45 MGD is based on Sept load of 552 lbs/day.	Industrial
Doerun Pond	GA0021717	Colquitt	Bridge Creek Tributary	0.15	30	-----	-----	-----	For DOSAG modeling: NH3 assumed to be 1.0 mg/L, DO assumed to be 5 mg/L	Municipal
Thomasville WPCP	GA0024082	Thomas	Oquina Creek	6.5	10	2	6	Report	DO is also required to be monitored 1 day / week	Municipal
Moultrie-Ochlockonee WPCP	GA0024660	Colquitt	Ochlockonee River	4	3	0.5	6	4	Parameter presented were for the June-Sept permitting period	Municipal/ Industrial
Cairo WPCP	GA0025771	Grady	Parkers Mill Creek	3	10	1.5	6	1		Municipal
Boston Pond	GA0033715	Thomas	Aucilla Creek	0.21	30	-----	-----	-----	For DOSAG modeling: NH3 assumed to be 10 mg/L, DO assumed to be 5 mg/L	Municipal
Megis WPCP	GA0048178	Thomas	Oakey Creek	0.15	15	3	5	-----		Municipal

Available Assimilative Capacity in the Flint and Ochlockonee River Basin

Model Run	Basin	Available Assimilative Capacity (Total Mileage)				
		Very Good	Good	Moderate	Limited	None or Exceeded
Baseline	Flint	572	275	75	29	9
	Ochlockonee	47	61	12	8	7
Permitted	Flint	472	197	112	33	145
	Ochlockonee	66	34	22	4	9

Legend

Available Assimilative Capacity

Very Good

Good

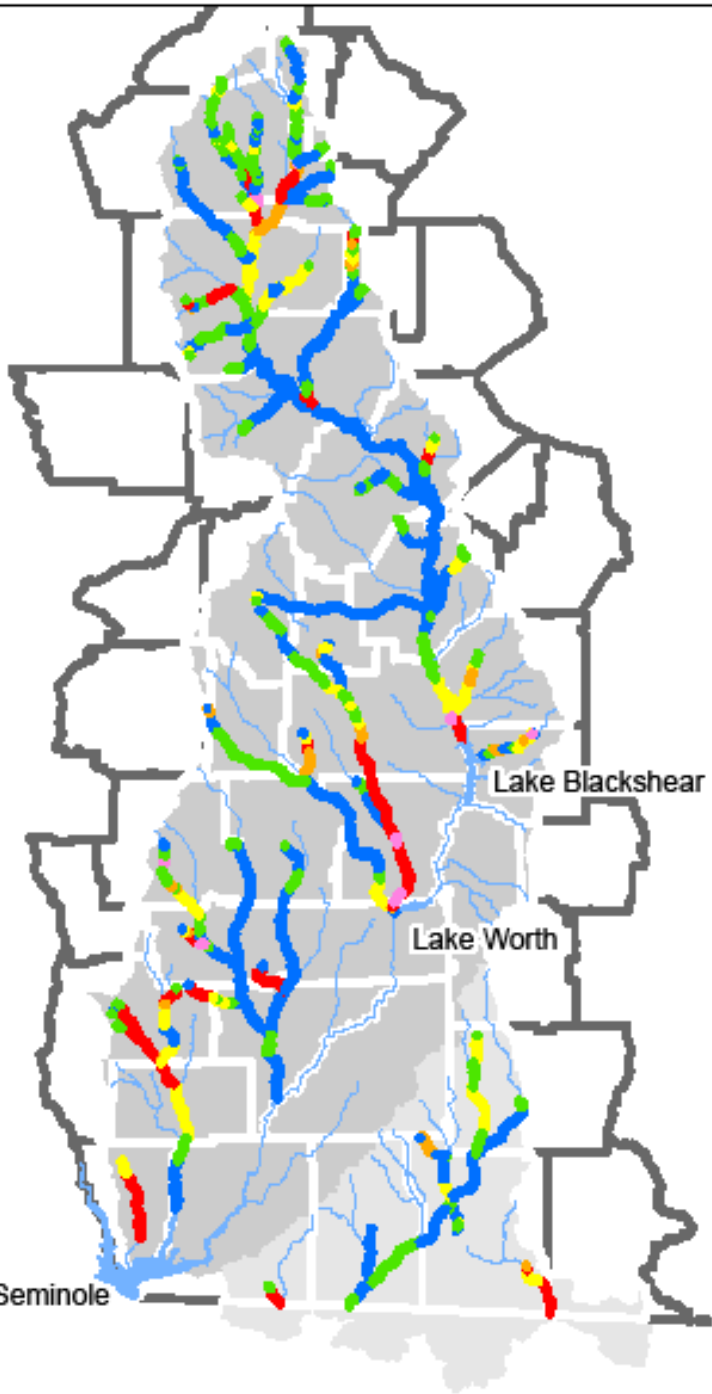
Moderate

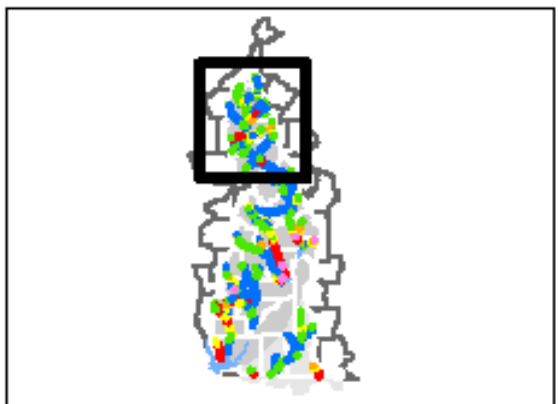
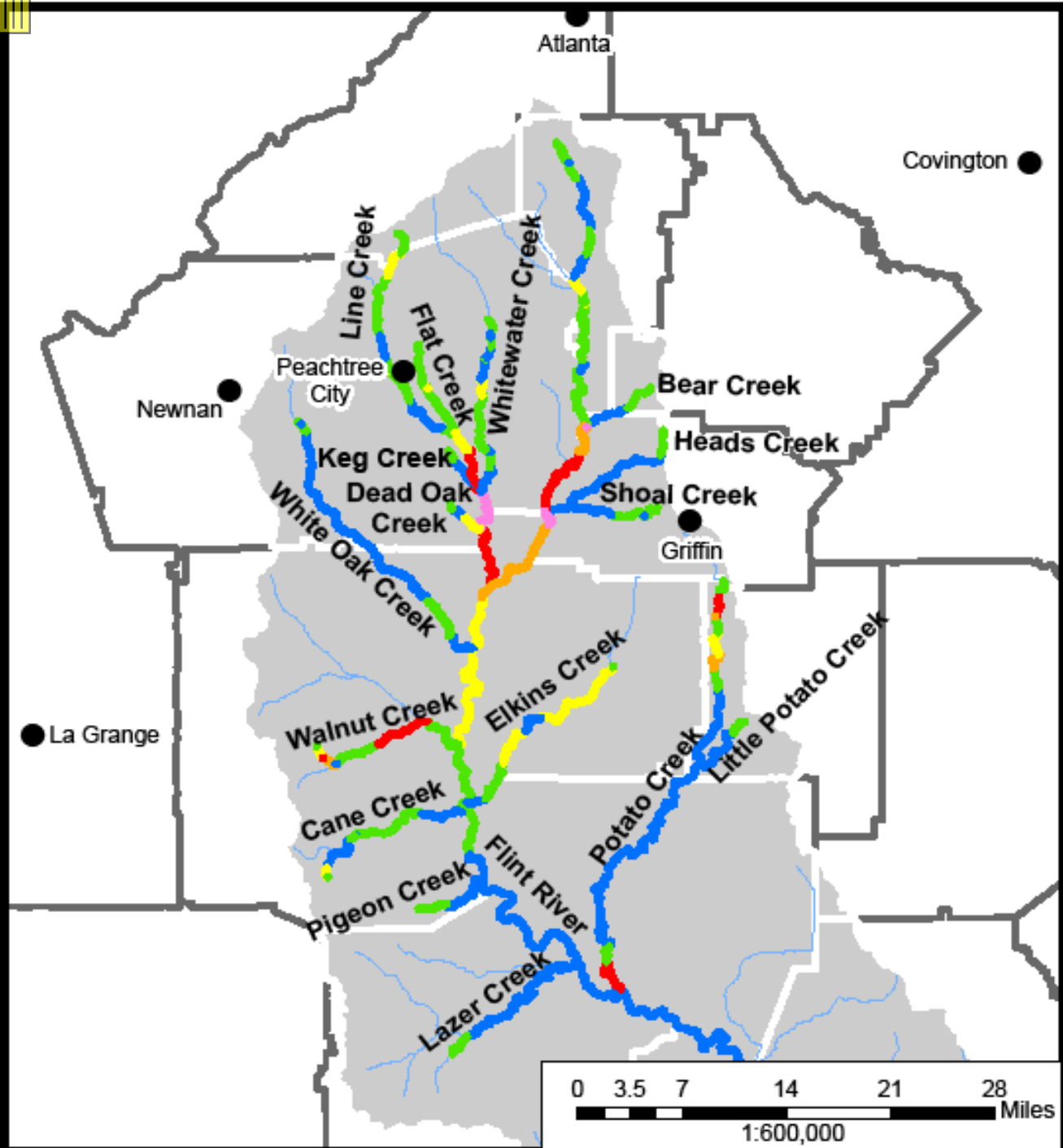
Limited

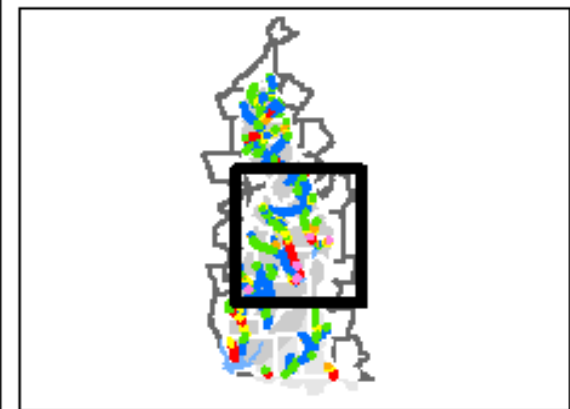
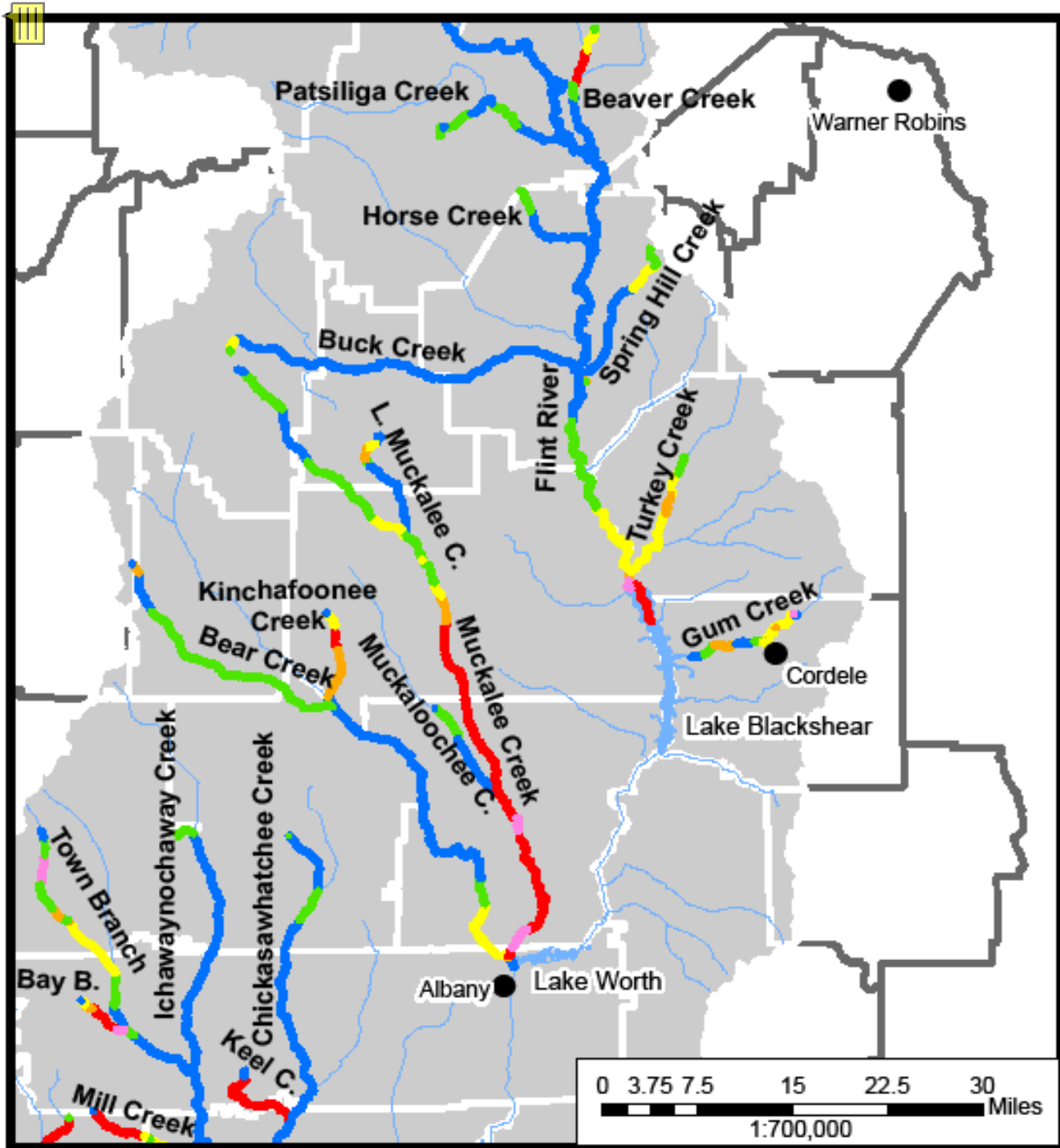
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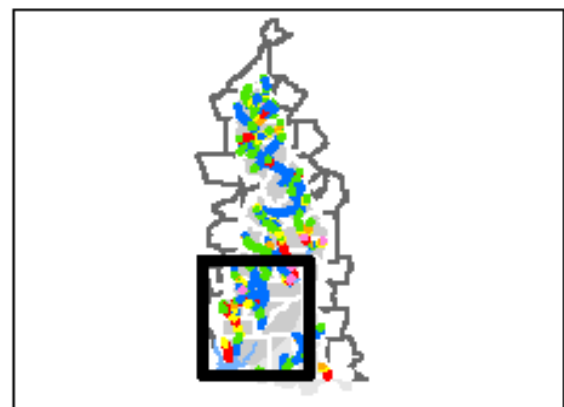
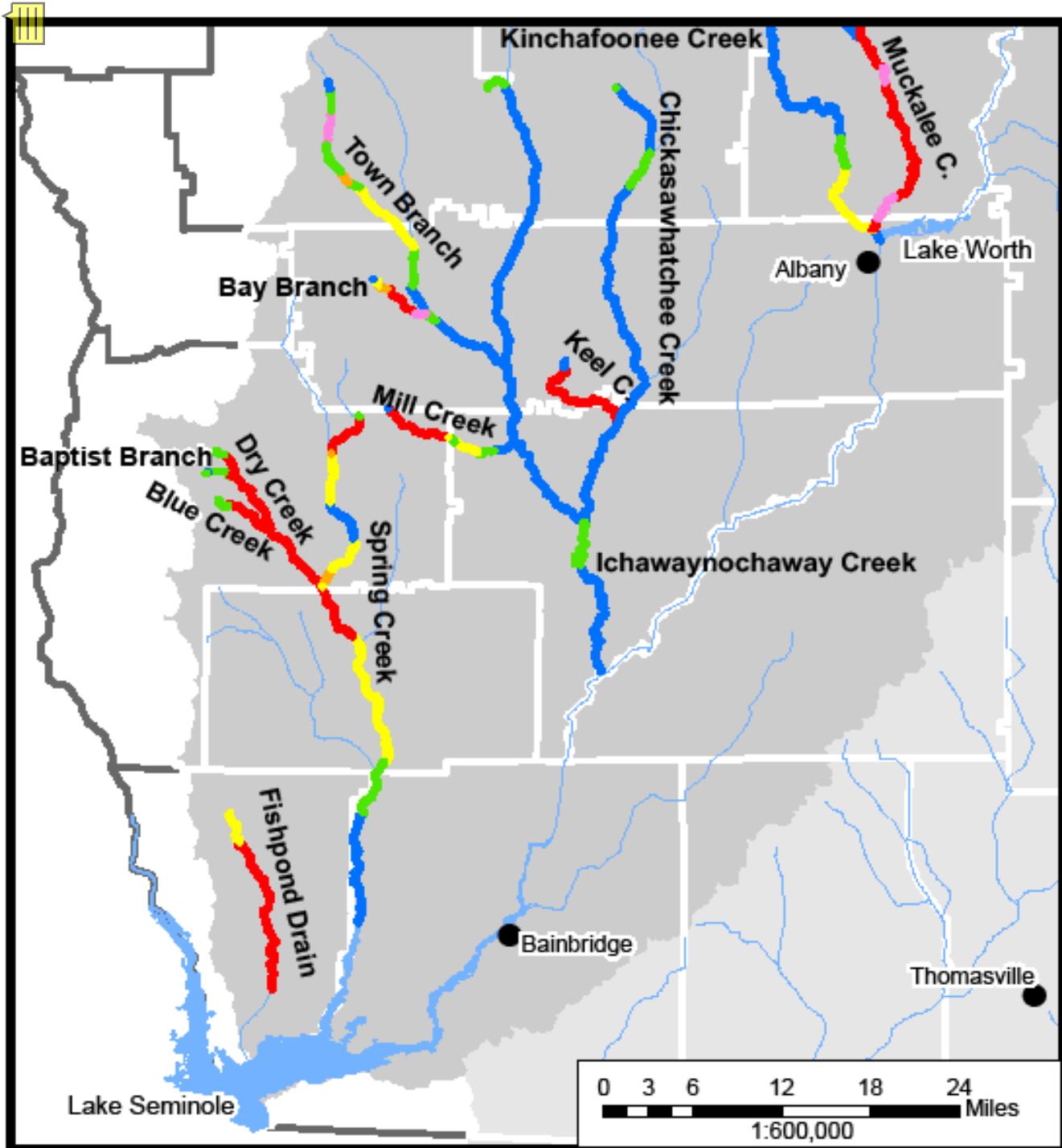
At Assimilative Capacity

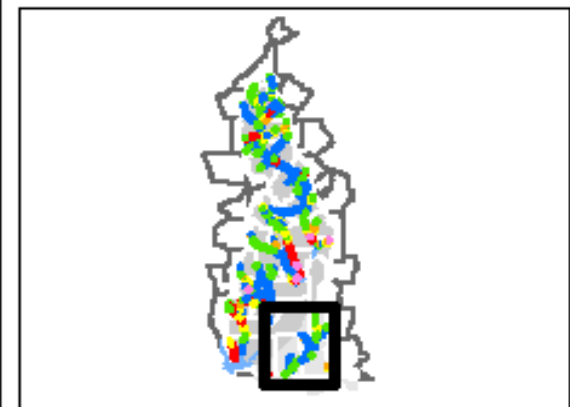
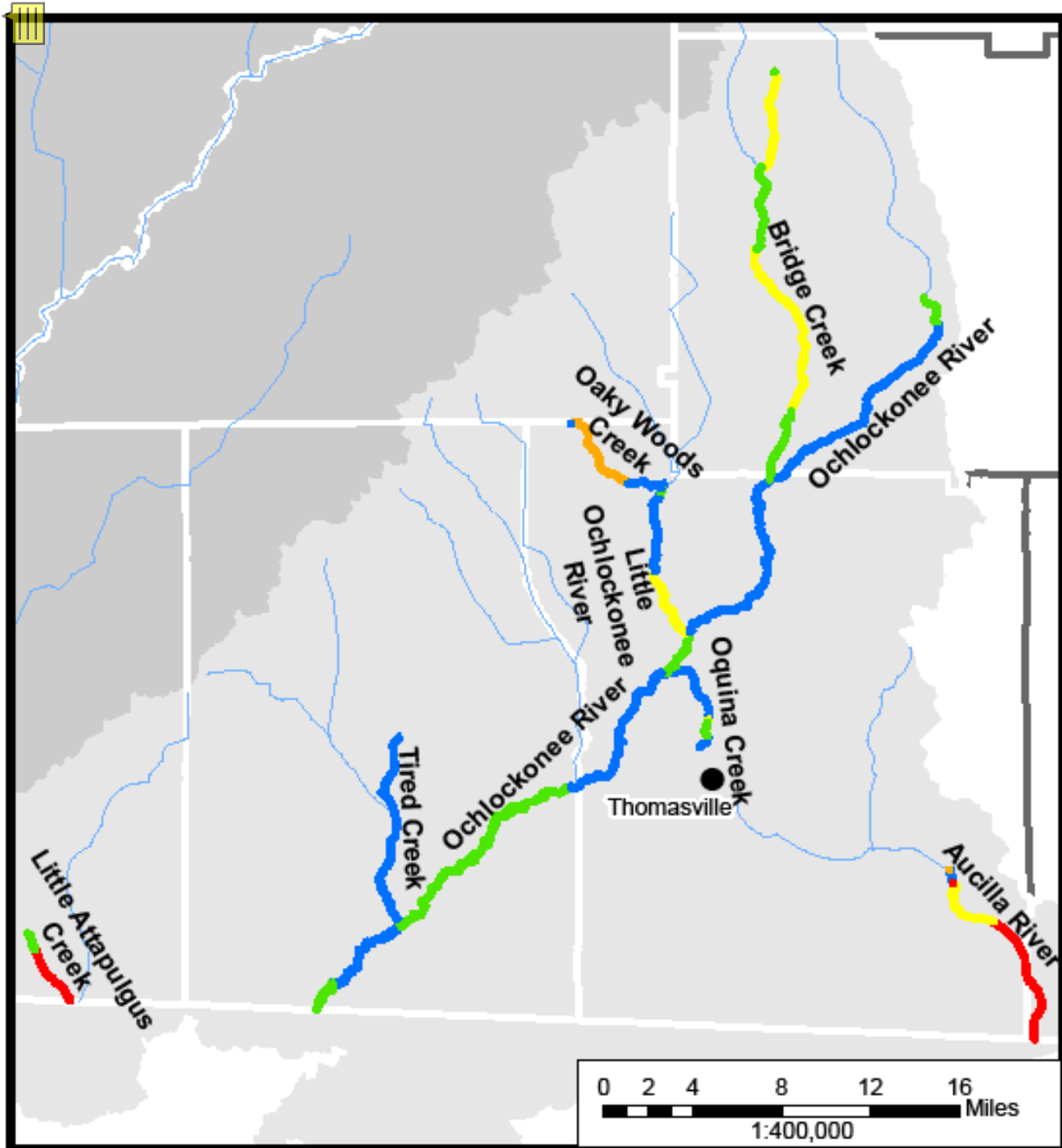
Unmodeled Lakes and Streams













Questions?