



# THE CHATTAHOOCHEE RIVERLANDS

## APPENDIX B: THE RIVERLANDS IN NUMBERS

# THE RIVERLANDS IN NUMBERS

The Chattahoochee RiverLands Greenway spans 125 miles from Buford Dam to Chattahoochee Bend State Park.

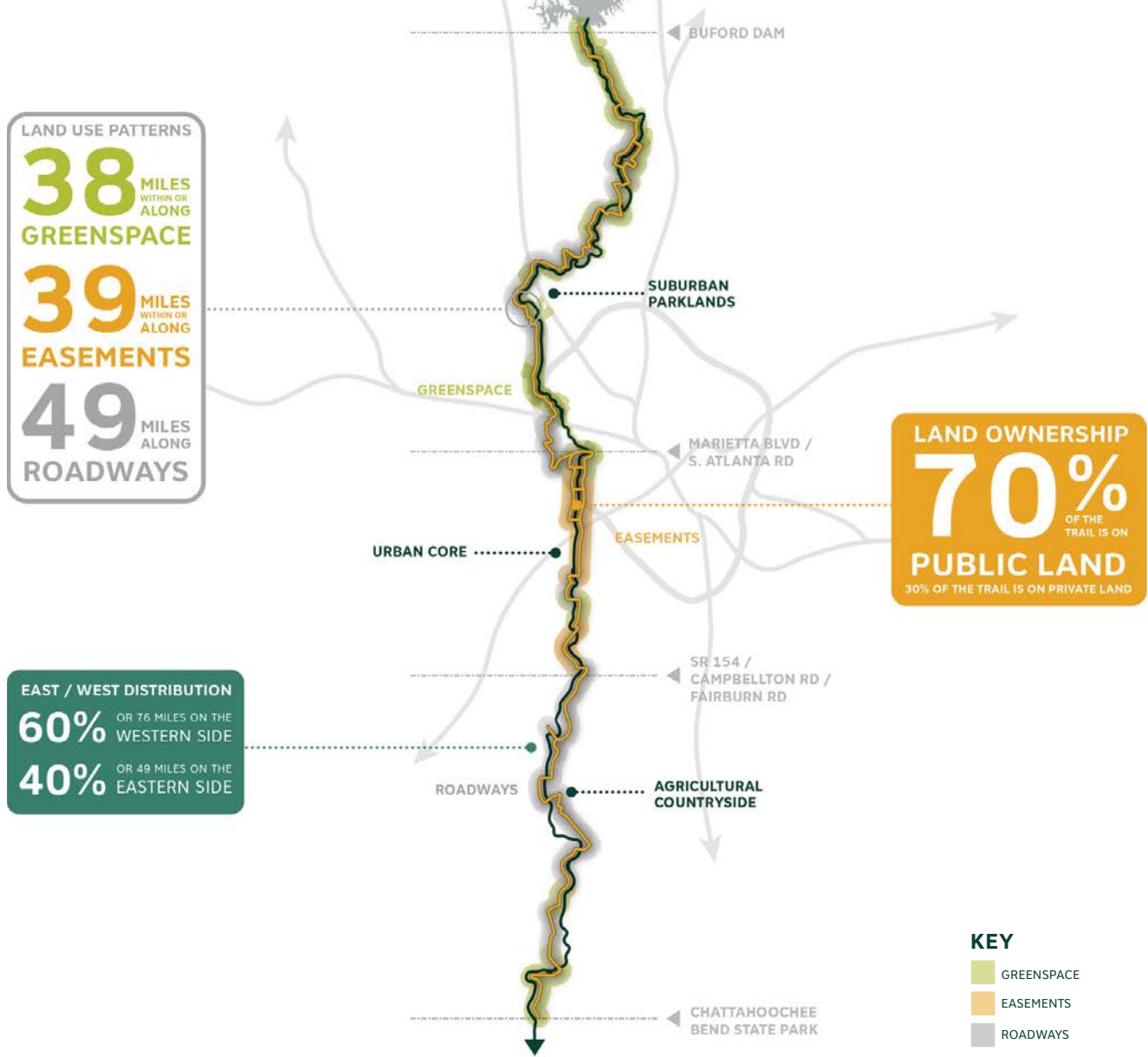
Most of the Greenway hugs the River's edge, with two-thirds of the Preferred Alignment within a 10-minute walk of the River and the entire Greenway within a 15-minute bike ride of the River's edge. The Preferred Alignment crosses the River 25 times, an average of 5 miles between River crossings. 60% of the Preferred Alignment runs on the west side of the Chattahoochee while 40% or 49 miles are being proposed on the east side. The RiverLands proposes 44 tributary trails connecting communities to the River and to one-another. Alternative alignments include the Practical Alternative spanning 140 miles, and a suite of other alternatives spanning 154 miles in length.



# LAND USE PATTERNS

The Preferred Alignment for the Chattahoochee RiverLands Greenway weaves together existing and new infrastructure to create a continuous public realm.

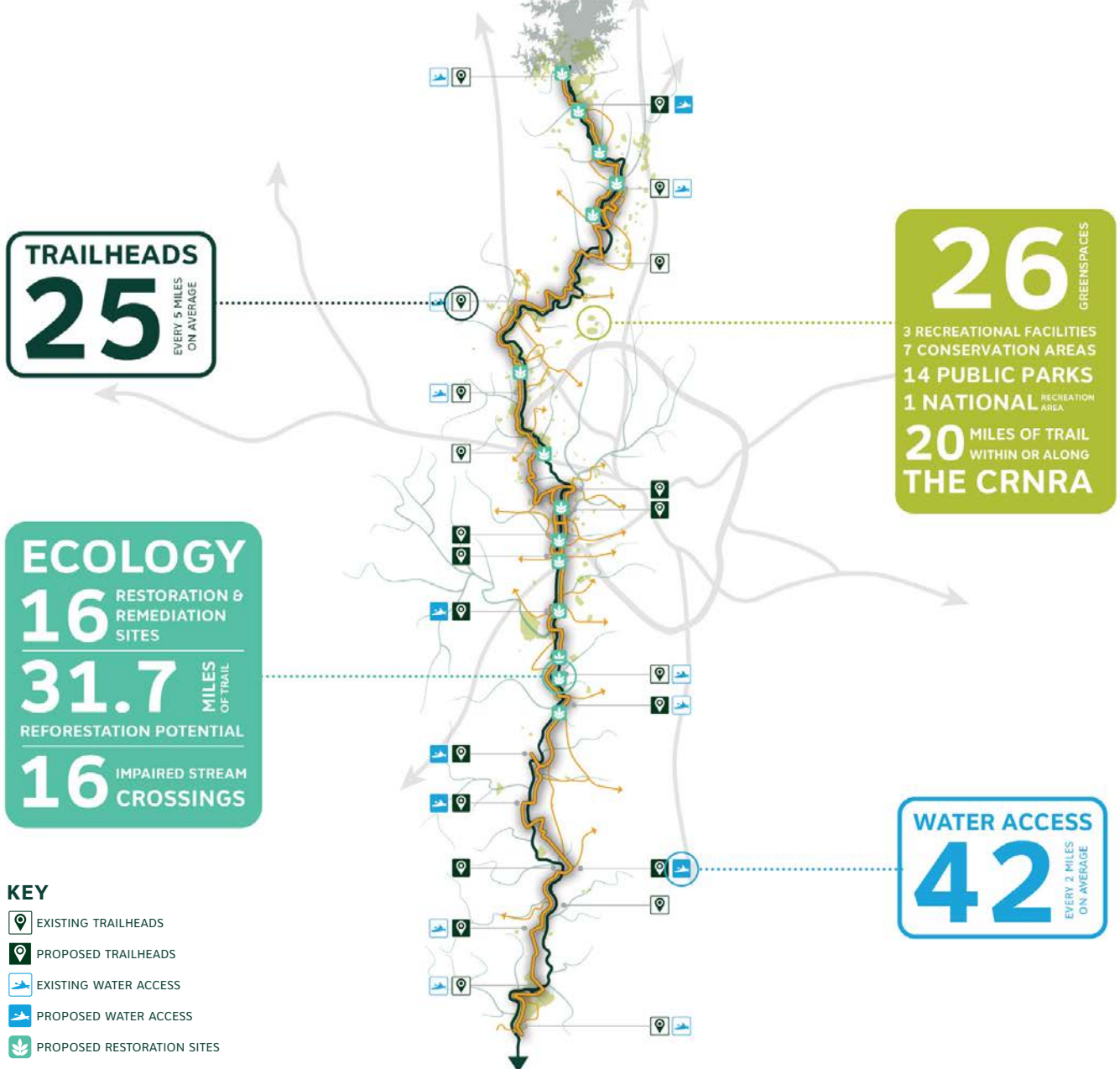
The existing infrastructure includes parks and greenspace, roads, easements, public land and minimal use of private land. The trail connects east and west banks of the River, and sometimes runs on both sides, with a slight preference to the western banks in the Agricultural Countryside and a slight preference to the eastern banks in the Suburban Parklands. The Preferred Alignment takes advantage of existing bike infrastructure and runs along 49 miles of roadways while 39 miles are along existing easements and 38 miles along parks and greenspace. 20 miles of the Preferred Alignment are along or within the Chattahoochee River National Recreation Area boundaries. 70% of the Preferred Alignment, or approximately 87 miles of the trail, is aligned within land that is currently publicly owned.



# A CONTINUOUS PUBLIC REALM

The Chattahoochee RiverLands proposes to use existing and new access points to the River with 25 trailheads and 42 new water access points total.

The trailheads, located every 5 miles on average, will connect 40 existing parks along its length, half of which are part of the Chattahoochee River National Recreation Area. By connecting these resources, the Greenway boasts approximately 32 miles of restoration potential with 16 sites identified as in need of remediation and/or restoration and 16 impaired stream crossings. The increase in water access points to a total of 42, located every 2 miles along the River on average, will provide RiverLands visitors greater access to the Chattahoochee for boating, floating and fishing.



# A COMMON GROUND FOR ALL

The Chattahoochee RiverLands Greenway represents an opportunity to anticipate metropolitan growth and provide equitable access to greenspace and recreational opportunities to all.

As the Metro Atlanta Region continues to grow, about 1 million people will live within a 15-minute bike ride of the proposed RiverLands Greenway. This regional resource will connect directly 19 cities by building upon a robust social infrastructure network.



# THE RIVERLANDS IN NUMBERS

## KEY

1/4 mile = 5 min walk

1/2 mile = 10 min walk

3 miles = 10 min bike ride

## GENERAL TRAIL STATISTICS

### Miles of Trail

- Preferred Alignment: 125 Miles
- Practical Alternative: 140 Miles
- Other Alternatives: 154 Miles

### Tributary Trails

- 44 tributary trails

### Crossings

- 25
- Average of 5 miles between River crossings

### Trail Within ½ Mile of the River

- 97 Miles
- 78%

### Trail Within 1/4 Mile of the River

- 80 Miles
- 64%

### Which Side of the River

- West Side:
  - 76 Miles
  - 60%
- East Side:
  - 49 Miles
  - 40%

## DESTINATIONS

### Cities

- 19 cities within 3 miles of the Preferred Alignment (not including tributary trails):
  - Atlanta
  - Alpharetta
  - Berkeley Lake
  - Buford
  - Chattahoochee Hills
  - Douglasville
  - Duluth
  - Dunwoody
  - Johns Creek
  - Marietta
  - Norcross
  - Peachtree Corners
  - Roswell
  - Sandy Springs
  - Smyrna
  - South Fulton
  - Sugar Hill
  - Suwanee
  - Whitesburg
- 24 cities within 3 miles of trail and tributary trails

### Trailheads

- 25 Trailheads considered along preferred trail alignment trail
- Average distance between Trailheads along Preferred Alignment is 5 miles

### Parks Connected

- 26 Parks directly connect by the Preferred Alignment

- Public Parks in proximity to proposed Trailheads:
  - 24 parks within 1/4 mile of proposed Trailheads
  - 27 parks within 1/2 mile of proposed Trailheads
  - 103 parks within 3 miles of proposed Trailheads

### Water Access Points

- 43 access points considered along the River:
  - Existing: 26
  - Proposed: 17
- 104 miles of River between start and end of Preferred Alignment trail
- Average distance between access points is 2 miles

### Schools

- 6 schools within 1/4 mile of the Preferred Alignment
- 39 schools within 1/2 mile of the Preferred Alignment
- 6 schools within 1/2 mile of proposed Trailheads
- 152 schools within 3 miles of the Preferred Alignment
- 114 schools within 3 miles of proposed Trailheads

### Libraries

- 6 libraries within 1/2 mile of the Preferred Alignment
- 2 libraries within 1/2 mile of proposed Trailheads
- 13 libraries within 3 miles of the Preferred Alignment
- 13 libraries within 3 miles of proposed Trailheads

### Churches

- 6 churches within 1/4 mile of the Preferred Alignment
- 4 churches within 1/2 mile of proposed Trailheads
- 40 churches within 3 miles of proposed Trailheads

### Campsites

- 8 campsites proposed along the Preferred Alignment

## OWNERSHIP AND LAND-USE

### Public / Private Property

- 38 miles of Preferred Alignment on private property not along public ROW/roads or within public land (30%)
- 87 miles of Preferred Alignment either within public land or along public ROW/roads (70%)

### Greenspace

- 38 miles of Preferred Alignment within or along parks/greenspace

### CRNRA

- 20 miles of Preferred Alignment within or along CRNRA boundaries

### Easements

- 39 miles of Preferred Alignment along or within an easement

### On-Road / Off-Road

- 49 miles of Preferred Alignment along existing roadways (39%)

## CONNECTIVITY STATISTICS

### Trails of Significance

- 6 significant trails are connected to the RiverLands:
  - Silver Comet Trail
  - Rottenwood Creek Trail / Bob Callan Trail
  - Big Creek Trail
  - Mableton Parkway Trail
  - The Atlanta BeltLine

### Bus Stops

- 132 bus stops within 1/2 mile of the Preferred Alignment
- 4 SRTA Park and Ride facilities within 1/2 mile of the preferred alignment
- 2 bus stops within 1/4 mile of proposed Trailheads
- 24 bus stops within 1/2 mile of proposed Trailheads
- 1237 bus stops within 3 miles of proposed Trailheads

### MARTA Stations

- 6 MARTA rail stations:
  - North Springs (requires pedestrian bridge over GA 400)
  - Sandy Springs
  - Dunwoody
  - Medical Center
  - Bankhead
  - H.E. Holmes

### High-Risk and Major Roads Crossings

- Along the Preferred Alignment, 24 high-risk bicycle & pedestrian crossings have been identified for improvement
- Along the Preferred Alignment, 12 major roads crossings have been identified for improvements

## ECOLOGY STATISTICS

### Restoration and Remediation Sites

- Along the Preferred Alignment, 16 sites have been identified for future restoration and remediation

### Reforestation

- Along the Preferred Alignment, 31.7 miles of trail have been identified to have reforestation potential

### Impaired Stream Crossings

- The Preferred Alignment crosses 57 impaired streams

### Floodplain

- 59.9 miles (48.0%) of the Preferred Alignment are within the 100 year floodplain

### MRPA

- 80.1 miles (64.1%) of the Preferred Alignment are Within the Chattahoochee River corridor and subject to MRPA

## DEMOGRAPHICS

### Population Living Within Walking

#### Distance of the Preferred Alignment

- 69,521 people live within 1/4 mile of the Preferred Alignment (5 min walk)
- 136,556 people live within 1/2 mile of the Preferred Alignment (10 min walk)
- 798,612 people living within 3 miles of the Preferred Alignment (15 min bike ride)

### Miles Within High Walking and Biking

#### Propensity Areas

- 1 mile of Preferred Alignment in highest propensity area
- 8 miles of Preferred Alignment in highest two propensity classes

### Population Living Within Bike

#### Distance of New Trailhead

- 232,913 people live within a 15 min bike ride (3 miles) of a new Trailhead

### Income

- Out of all the people living within 1/2 mile of the Preferred Alignment, 6.8% live under poverty level
- Out of all the people living within 3 miles of the Preferred Alignment, 10% live under poverty level
- Out of all the people living within 1/2 mile of the Preferred Alignment, 37.8% or 20,681 households live under metro-Atlanta median income level
- Out of all the people living within 3 miles of the Preferred Alignment, 42.6% or 128,992 households live under Metro Atlanta Region median income level
- Out of all the people living within 1/2 mile of the Preferred Alignment, 27.9% or 15,270 households spend more than 30% of household income on rent or mortgage
- Out of all the people living within 3 miles of the Preferred Alignment, 29.4% or 88,932 households spend more than 30% of household income on rent or mortgage

### Car Ownership

- Out of all the people living within 1/2 mile of the Preferred Alignment, 2.7% or 1,496 households do not own a car
- Out of all the people living within 3 miles of the Preferred Alignment, 4.8% or 14,522 households do not own a car

### Race Distribution Within 1/2 Mile of the Preferred Alignment

- White: 59%
- Black: 26%
- American Indian: <1%
- Asian: 10%
- Native Hawaiian: <1%
- Other: 2%
- Two or more: 3%

## **Race Distribution Within 3 Miles of the Preferred Alignment**

- White: 57%
- Black: 26%
- American Indian: <1%
- Asian: 10%
- Native Hawaiian: <1%
- Other: 3%
- Two or more: 3%

## **Miles Within Environmental Justice Areas (As Defined By Arc)**

- Well Above Avg: 2.0 miles (2%)
- Above Avg: 18.6 miles (15%)
- Avg: 48.7 miles (39%)
- Below Avg: 25.0 miles (20%)
- Well Below Avg: 18.8 (15%)
- Not Assigned: 11.8 miles (9%)

## **Age Distribution**

- Out of all the people living within 3 miles of the Preferred Alignment, 25.3% or 201,908 people are under 18
- Out of all the people living within 3 miles of the Preferred Alignment, 11.0% or 87,503 people are over 65

## **Disabilities**

- Out of all the people living within 1/2 mile of the Preferred Alignment, 7.5% or 7,824 people age 18 and over, live with disabilities
- Out of all the people living within 3 miles of the Preferred Alignment, 9.1% or 54,294 people age 18 and over, live with disabilities

## **Commute**

- Out of all the people living within 3 miles of the Preferred Alignment, 0.1% or 527 workers report commuting by bike

# **OVERVIEW OF TRAIL BENEFITS**

## **JOB CREATION**

There are several resources that have documented the impact of multimodal trail implementation projects on job creation. Based on the research from the Political Economy Research Institute housed in the University of Massachusetts, a national study found that between roughly 9 and 12 jobs were created on average per \$1 million spent.<sup>1</sup> Boston University research found that over 58 projects, that for each \$1 million spent created roughly 11 jobs.<sup>2</sup>

## **POSITIVE ECONOMIC IMPACT**

The Eppley Institute of Indiana University has done extensive research on the positive economic benefits of multimodal trails. Based on their 2017 Trails Study Report, they found that on average each trail user spends about \$3,500 annually on activities related to trail visits.<sup>4</sup> These economic benefits also matriculate into property value and sales with roughly 60% of adjacent property owners saying that the trail systems had a positive financial impact on them.

## **POSITIVE HEALTH IMPACT**

Health is always a major focus of more active forms of transportation and access to leisure activities. This can take many shapes and occurs in the form of physical fitness and mental health, as well as community ties. Unfortunately, the Atlanta area suffers from a 32.5% obesity rate, which is also associated with hypertension, type 2 diabetes, hypercholesterolemia, coronary heart disease, stroke and asthma.<sup>6</sup> The Centers for Disease Control and Prevention also report that only 1 in 5 Georgians get enough exercise to account for daily recommended goals. The American Heart Association<sup>7</sup> is promoting active living through infrastructure improvements that allow safe and comfortable access to achieve our daily recommended goals. Based on the population statistics, nearly 800,000 people live within 3 miles of the Chattahoochee RiverLands Trail. The Eppley Institute has found that nearly 67% of the surrounding population reported that their daily physical activity increased as a result of the proximity to greenways.



## ADDITIONAL TRAIL BENEFITS

### AARP

- Eight in 10 Americans prefer being in a community that offers sidewalks and good places to walk<sup>8</sup>
- People who live in neighborhoods with sidewalks are 47 percent more likely than residents of areas without them to be active for at least 39 minutes per day<sup>9</sup>
- Surveys show that 60 percent of Americans would ride a bicycle if they felt safe doing so, and eight out of 10 agree that bicycling is a healthy, positive activity<sup>10</sup>
- In North Carolina's Outer Banks, bicycle tourism generates approximately \$60 million in annual economic activity, on a \$6.7 million investment in bicycle infrastructure – a return of nearly ten dollars for every dollar spent<sup>11</sup>
- Building bicycle infrastructure creates an average of 11.4 jobs for every \$1 million spent (more than compared to road projects, which only yield about 7.8 jobs per every \$1 million)<sup>12</sup>

### Trust for Public Land<sup>13</sup>

- Calculations from the U.S. Army Corps of Engineers, there is a \$3.58 unit day value for recreation – a rough idea of the amount of money visitors potentially save by having free access to activities like walking or biking
- TPL has found that people who exercise regularly save an average of \$351 in annual medical costs per person
- A 2011 report showed that on average, for every \$1 million spent on trail design and construction, 8.83 jobs were created – the national average from the same report was 8.96 jobs per \$1 million investment and the largest component was investment in bicycle infrastructure which accounted for 11.4 jobs
- TPL has determined, based on over 30 studies, the excellent parks add approximately 15 percent to the value of dwellings within 500 feet

### Silver Comet Trail Economic Impact Analysis and Planning Study<sup>14</sup>

- In a survey by the National Association of Realtors and the National Association of Home Builders, trails ranked as the second most important community amenity out of a list of 18 choices.<sup>15</sup>
- The CDC determined that by creating and improving places in our communities to be physically active, we could see a 25% increase in the percentage of people who exercise at least three times per week.<sup>16</sup>
- Replacing two miles of driving each day with walking or bicycling will – over the course of one year – prevent 730 pounds of carbon dioxide from entering the atmosphere

### Outdoor Industry Association

- 58% of Georgia residents participate in outdoor recreation each year
- Outdoor recreation in Georgia generates \$27.3 billion in consumer spending annually and provides 238,000 jobs, \$8.1 billion in wages and salaries and \$1.8 billion in state and local tax revenue

- Georgia residents are more likely to participate in fishing and trail/road running than the average American

### Rails-to-Trails Conservancy<sup>17</sup>










- 17 jobs (in areas of design, engineering and construction) are created for every \$1 million spent on greenways, sidewalks, and bicycle facilities (more than the ratio for dollars spent to jobs created for pavement widening, bridge construction, new highway construction, etc.). This is based on a study commissioned by the American Association of State Highway and Transportation Officials (AASHTO) on American Recovery and Reinvestment Act job creation

### Footnotes

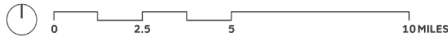
1. PERI – UMASS – Pedestrian and Bicycle Infrastructure – A National Study of Employment Impacts
2. Boston University – Pedestrian and Bicycle Infrastructure: A National Study of Employment Impacts
3. Assuming \$750k / mile on average – 750k x 100 miles = 75mil – 75mil x 10.66 (average of job creations listed above)
4. Eppley Institute – Indiana University – 2017 Indiana Trails Study Summary Report: Measuring the Health, Economic, and Community Impacts of Trails in Indiana
5. Based on Eppley Institute document for Nickel Plate and Cardinal Greenways which are similar context zones.
6. Centers for Disease Control – Obesity: Data, Trends and Maps
7. American Heart Association – Changing the Built Environment to Promote Active Living
8. National Association of Realtors. (November 2013) National Community Preference Survey. <http://www.realtor.org/articles/nar-2013-community-preference-survey> cited in AARP Sidewalks: A Livability Fact Sheet
9. Sallis J., et al. "Neighborhood Environments and Physical Activity among Adults in 11 countries." American Journal of Preventive Medicine, Vol. 36, No.2 cited in AARP Sidewalks: A Livability Fact Sheet AARP. Bicycling: A Livability Fact Sheet.
10. AARP. Bicycling: A Livability Fact Sheet
11. Flusche, D. League of American Bicyclists, Advocacy Advance (2009, 2012), Bicycling Means Business: The Economic Benefits of Bicycle Infrastructure. [http://www.advocacyadvance.org/site\\_images/content/Final\\_Econ\\_Update\(small\).pdf](http://www.advocacyadvance.org/site_images/content/Final_Econ_Update(small).pdf) cited in AARP Bicycling: A Livability Fact Sheet
12. Garrett-Peltier, H. Political Economy Research Institute, University of Massachusetts at Amherst (June 2011), Pedestrian and Bicycle Infrastructure: A National Study of Employment Impacts. [http://www.peri.umass.edu/#leadadmin/pdf/published\\_study/PERI\\_ABikes\\_June2011.pdf](http://www.peri.umass.edu/#leadadmin/pdf/published_study/PERI_ABikes_June2011.pdf) cited in AARP Bicycling: A Livability Fact Sheet
13. Trust for Public Land. Overview of the Economic Benefits of Conservation around Stringer's Ridge, <http://cloud.tpl.org/pubs/benefits-econ-stringersridge.pdf>
14. [http://www.bwnwga.org/wp-content/uploads/Silver\\_Comet\\_Combined.pdf](http://www.bwnwga.org/wp-content/uploads/Silver_Comet_Combined.pdf)
15. National Association of Realtors and National Association of Home Builders. (2002). Consumer's Survey on Smart Choices for Home Buyers cited in Silver Comet Trail Economic Impact Analysis and Planning Study
16. U.S. Department of Health and Human Services, Centers for Disease Control and Prevention. (2002). Guide to Community Preventive Services, cited in Silver Comet Trail Economic Impact Analysis and Planning Study
17. Trail Investment: A good deal for the American Economy Trails and Trail Networks Revitalize American Infrastructure

# ACCESSING THE RIVERLANDS

## KEY

-  EXISTING TRAILHEAD
-  EXISTING BOAT RAMP
-  PARKS
-  SCHOOLS
-  PROPOSED TRAILHEAD
-  PROPOSED BOAT RAMP
-  BUS STOPS
-  LIBRARIES
-  PROPOSED CAMPSITES

10 — NUMBER WITHIN A 15 MIN BIKE RIDE OF TRAILHEAD



**ROSWELL UNDERPASS PARK TRAILHEAD**  
ROSWELL, FULTON COUNTY

 151 9 21  
    

**CRNRA: JOHNSON FERRY TRAILHEAD**  
UNINCORPORATED, COBB COUNTY

 100 15 14 2  
    

**CRNRA: COLUMNS DRIVE TRAILHEAD**  
UNINCORPORATED, COBB COUNTY

 143 5 9  
   

**CRNRA: COCHRAN SHOALS TRAILHEAD**  
UNINCORPORATED, COBB COUNTY

 208 7 12 2  
   

**CRNRA: PACES MILL TRAILHEAD**  
UNINCORPORATED, COBB COUNTY

 198 14 11 2  
   

**NICKAJACK TRAILHEAD**  
UNINCORPORATED, COBB COUNTY

 347 10 11 4  
   

**MABLETON PARKWAY TRAILHEAD**  
UNINCORPORATED, COBB COUNTY

 324 5 11 2  
   

**CAMP CREEK TRAILHEAD**  
UNINCORPORATED, DOUGLAS COUNTY

  63 3 2  
   

**DUNCAN MEMORIAL TRAILHEAD**  
UNINCORPORATED, DOUGLAS COUNTY

  5  
  

**FOXHALL RESORT TRAILHEAD**  
UNINCORPORATED, DOUGLAS COUNTY

**HUTCHESON FERRY TRAILHEAD**  
UNINCORPORATED, CARROLL COUNTY

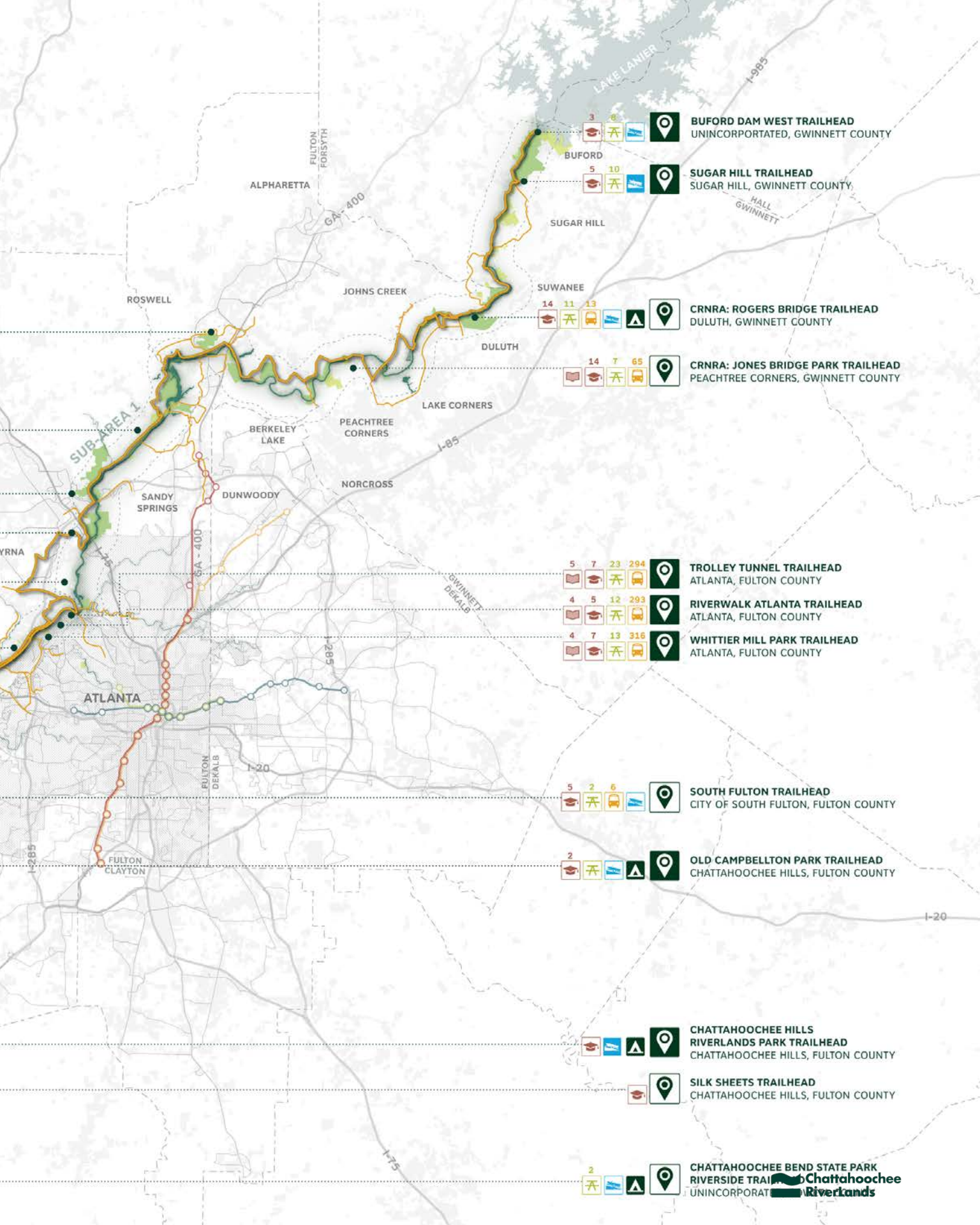
 

**WHITESBURG TRAILHEAD**  
WHITESBURG, CARROLL COUNTY

  2  
   

**McINTOSH RESERVE TRAILHEAD**  
UNINCORPORATED, CARROLL COUNTY

  2  
 



**3** **6** **BUFORD DAM WEST TRAILHEAD**  
UNINCORPORATED, GWINNETT COUNTY

**5** **10** **SUGAR HILL TRAILHEAD**  
SUGAR HILL, GWINNETT COUNTY

**14** **11** **13** **CRNRA: ROGERS BRIDGE TRAILHEAD**  
DULUTH, GWINNETT COUNTY

**14** **7** **65** **CRNRA: JONES BRIDGE PARK TRAILHEAD**  
PEACHTREE CORNERS, GWINNETT COUNTY

**5** **7** **23** **294** **TROLLEY TUNNEL TRAILHEAD**  
ATLANTA, FULTON COUNTY

**4** **5** **12** **293** **RIVERWALK ATLANTA TRAILHEAD**  
ATLANTA, FULTON COUNTY

**4** **7** **13** **316** **WHITTIER MILL PARK TRAILHEAD**  
ATLANTA, FULTON COUNTY

**5** **2** **6** **SOUTH FULTON TRAILHEAD**  
CITY OF SOUTH FULTON, FULTON COUNTY

**2** **OLD CAMPBELLTON PARK TRAILHEAD**  
CHATTAHOOCHEE HILLS, FULTON COUNTY

**CHATTAHOOCHEE HILLS RIVERLANDS PARK TRAILHEAD**  
CHATTAHOOCHEE HILLS, FULTON COUNTY

**SILK SHEETS TRAILHEAD**  
CHATTAHOOCHEE HILLS, FULTON COUNTY

**2** **CHATTAHOOCHEE BEND STATE PARK RIVERSIDE TRAILHEAD**  
UNINCORPORATED, **Chattahoochee Riverlands**

# ACCESSING THE RIVER

- SUGAR HILL BOAT RAMP**  
CUMMING, FORSYTH COUNTY


- CHATTAHOOCHEE POINTE PARK RIVER ACCESS**  
JOHNS CREEK, FULTON COUNTY


- CRNRA: JONES BRIDGE BOAT RAMP**  
JOHNS CREEK, FULTON COUNTY


- CRNRA: CREEC KAYAK LAUNCH**  
JOHNS CREEK, FULTON COUNTY


- CRNRA: GARRARD LANDING BOAT RAMP**  
ROSWELL, FULTON COUNTY


- HORSESHOE BEND KAYAK LAUNCH**  
ROSWELL, FULTON COUNTY


- EVES ROAD KAYAK LAUNCH**  
ROSWELL, FULTON COUNTY


- DON WHITE, AZALEA, + RIVER LANDING ACCESS POINTS**  
ROSWELL, FULTON COUNTY


- CRNRA: GOLD BRANCH KAYAK CAMPSITE**  
ROSWELL, FULTON COUNTY


- CRNRA: JOHNSON FERRY BOAT RAMP**  
MARIETTA, COBB COUNTY


- CRNRA: PALISADES WEST KAYAK LAUNCH**  
CUMBERLAND, COBB COUNTY


- CRNRA: PACES MILL BOAT RAMP**  
VININGS, COBB COUNTY


- NICKAJACK CREEK KAYAK LAUNCH**  
MABLETON, COBB COUNTY


- MABLETON PKWY BOAT RAMP**  
MABLETON, COBB COUNTY


- CAMP CREEK BOAT RAMP**  
DOUGLASVILLE, DOUGLAS COUNTY

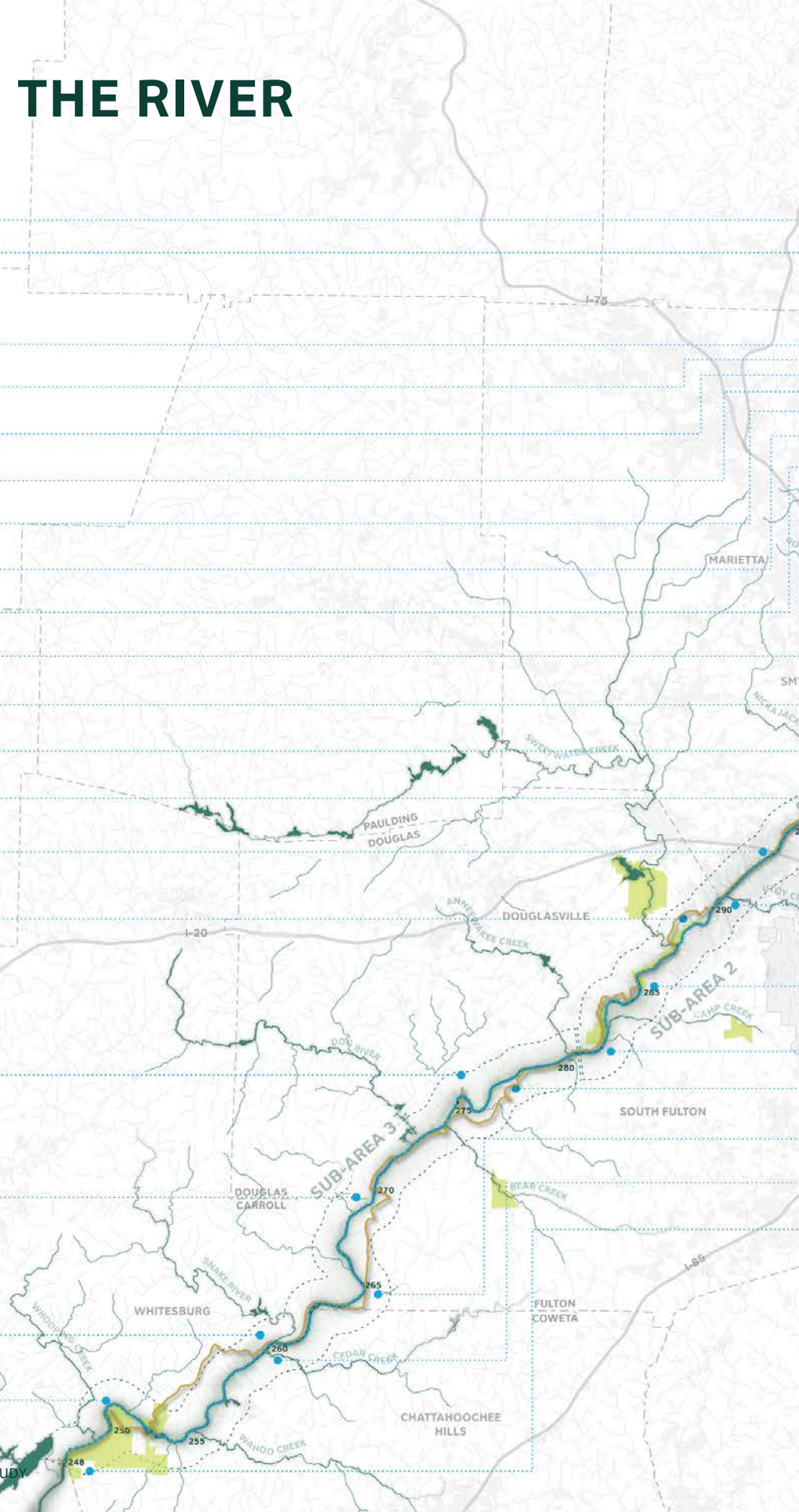

- DUNCAN MEMORIAL KAYAK LAUNCH**  
UNINCORPORATED, DOUGLAS COUNTY

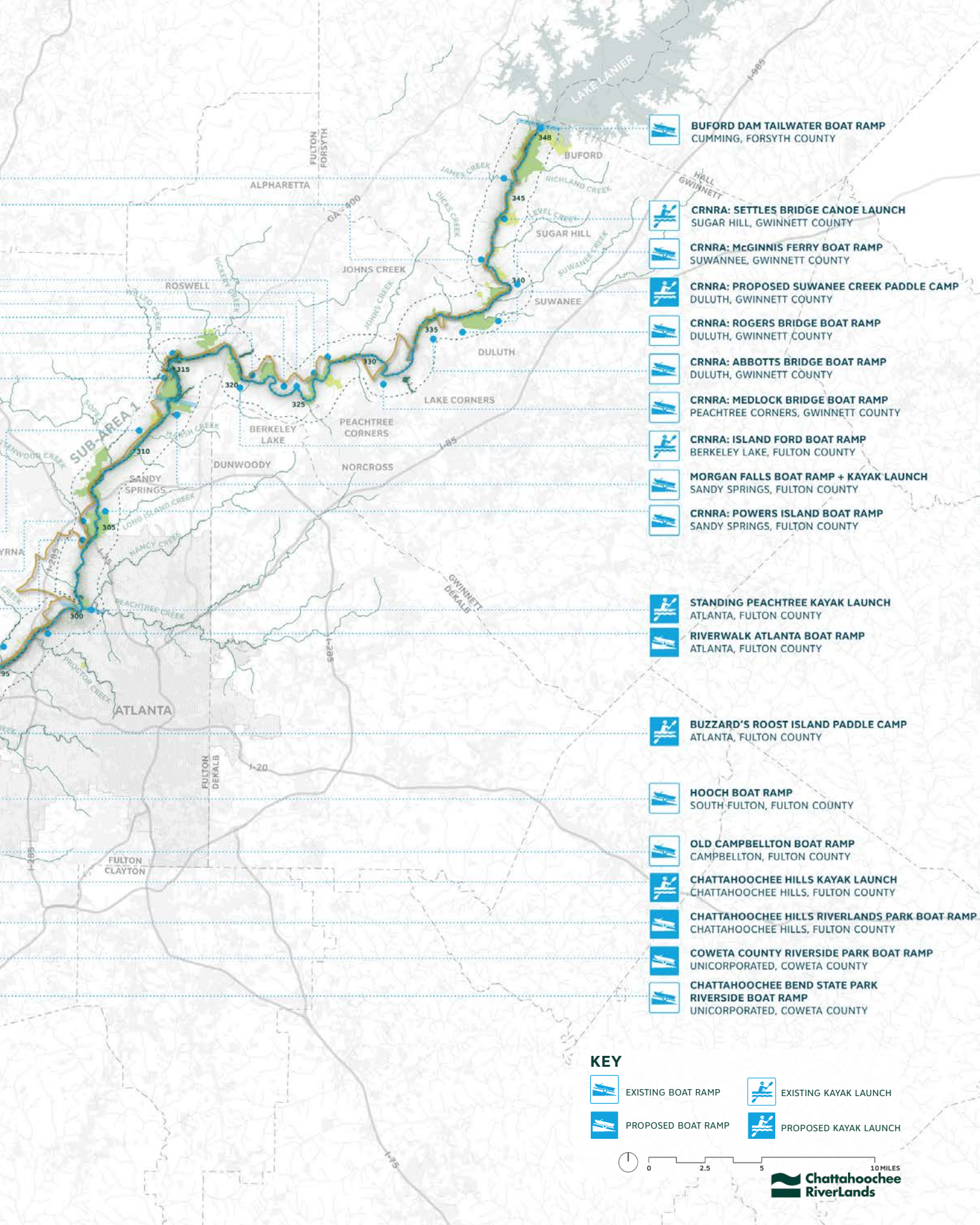

- FOXHALL RESORT BOAT RAMP**  
UNINCORPORATED, DOUGLAS COUNTY


- MOORE'S BRIDGE BOAT RAMP**  
WHITESBURG, CARROLL COUNTY


- McINTOSH RESERVE BOAT RAMP**  
UNINCORPORATED, CARROLL COUNTY







 **BUFORD DAM TAILWATER BOAT RAMP**  
CUMMING, FORSYTH COUNTY

 **CRNRA: SETTLES BRIDGE CANOE LAUNCH**  
SUGAR HILL, GWINNETT COUNTY

 **CRNRA: MCGINNIS FERRY BOAT RAMP**  
SUWANEE, GWINNETT COUNTY

 **CRNRA: PROPOSED SUWANEE CREEK PADDLE CAMP**  
DULUTH, GWINNETT COUNTY

 **CRNRA: ROGERS BRIDGE BOAT RAMP**  
DULUTH, GWINNETT COUNTY

 **CRNRA: ABBOTTS BRIDGE BOAT RAMP**  
DULUTH, GWINNETT COUNTY

 **CRNRA: MEDLOCK BRIDGE BOAT RAMP**  
PEACHTREE CORNERS, GWINNETT COUNTY

 **CRNRA: ISLAND FORD BOAT RAMP**  
BERKELEY LAKE, FULTON COUNTY

 **MORGAN FALLS BOAT RAMP + KAYAK LAUNCH**  
SANDY SPRINGS, FULTON COUNTY

 **CRNRA: POWERS ISLAND BOAT RAMP**  
SANDY SPRINGS, FULTON COUNTY

 **STANDING PEACHTREE KAYAK LAUNCH**  
ATLANTA, FULTON COUNTY


 **RIVERWALK ATLANTA BOAT RAMP**  
ATLANTA, FULTON COUNTY


 **BUZZARD'S ROOST ISLAND PADDLE CAMP**  
ATLANTA, FULTON COUNTY

 **HOOCH BOAT RAMP**  
SOUTH FULTON, FULTON COUNTY

 **OLD CAMPBELLTON BOAT RAMP**  
CAMPBELLTON, FULTON COUNTY

 **CHATTAHOOCHEE HILLS KAYAK LAUNCH**  
CHATTAHOOCHEE HILLS, FULTON COUNTY

 **CHATTAHOOCHEE HILLS RIVERLANDS PARK BOAT RAMP**  
CHATTAHOOCHEE HILLS, FULTON COUNTY

 **COWETA COUNTY RIVERSIDE PARK BOAT RAMP**  
UNINCORPORATED, COWETA COUNTY

 **CHATTAHOOCHEE BEND STATE PARK RIVERSIDE BOAT RAMP**  
UNINCORPORATED, COWETA COUNTY

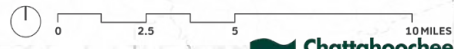
**KEY**

 EXISTING BOAT RAMP

 EXISTING KAYAK LAUNCH

 PROPOSED BOAT RAMP



 PROPOSED KAYAK LAUNCH





















































# TRAILHEAD MILEAGE CHART

Use the chart below to pinpoint the distance between your trip's start and end points.

## KEY

-  Existing Trailhead
-  Proposed Trailhead

	 Buford Dam west (at CRNRA Bowmans Island Unit)	 Sugar Hill	 CRNRA: Rogers Bridge	 CRNRA: Jones Bridge Park	 Roswell Underpass Park (at SR 400)	 CRNRA: Johnson Ferry	 CRNRA: Columns Drive	 CRNRA: Cochran Shoals	 CRNRA: Paces Mill <small>SUB-AREA 1</small>	 Trolley Tunnel <small>SUB-AREA 2</small>
 CRNRA: Buford Dam west		3.3	13.1	22.9	32.1	40.8	43.5	45.2	47.9	57.9
 Sugar Hill	3.3		9.8	19.6	28.8	37.6	40.2	41.9	44.6	54.6
 CRNRA: Rogers Bridge	13.1	9.8		9.8	19.0	27.7	30.4	32.1	34.8	44.8
 CRNRA: Jones Bridge Park	22.9	19.6	9.8		9.2	17.9	20.6	22.3	25.0	35.0
 Roswell Underpass Park	32.1	28.8	19.0	9.2		8.7	11.4	13.1	15.8	25.8
 CRNRA: Johnson Ferry	40.8	37.6	27.7	17.9	8.7		2.6	4.3	7.1	17.1
 CRNRA: Columns Drive	43.5	40.2	30.4	20.6	11.4	2.6		1.7	4.4	14.4
 CRNRA: Cochran Shoals	45.2	41.9	32.1	22.3	13.1	4.3	1.7		2.7	12.7
<small>SUB-AREA 1</small>  CRNRA: Paces Mill	47.9	44.6	34.8	25.0	15.8	7.1	4.4	2.7		10.0
<small>SUB-AREA 2</small>  Trolley Tunnel	57.9	54.6	44.8	35.0	25.8	17.1	14.4	12.7	10.0	
 Riverwalk Atlanta	59.2	55.9	46.1	36.3	27.1	18.4	15.7	14.0	11.3	1.3
 Whittier Mill Park	59.8	56.5	46.7	36.9	27.7	18.9	16.3	14.6	11.9	1.9
 Nickajack Creek	62.2	59.0	49.1	39.3	30.1	21.4	18.8	17.1	14.3	4.3
 Mableton Parkway	63.8	60.5	50.7	40.9	31.7	23.0	20.3	18.6	15.9	5.9
 Camp Creek	68.1	64.9	55.0	45.2	36.0	27.3	24.7	23.0	20.2	10.3
 South Fulton	73.3	70.0	60.2	50.4	41.2	32.4	29.8	28.1	25.4	15.4
<small>SUB-AREA 2</small>  Old Campbellton	78.8	75.5	65.7	55.9	46.7	37.9	35.3	33.6	30.9	20.9
<small>SUB-AREA 3</small>  Duncan Memorial	86.4	83.1	73.3	63.5	54.3	45.6	42.9	41.2	38.5	28.5
 Foxhall Resort	90.7	87.4	77.6	67.8	58.6	49.8	47.2	45.5	42.8	32.8
 Chattahoochee Hills RiverLands Park	95.9	92.6	82.8	73.0	63.8	55.0	52.4	50.7	48.0	38.0
 Silk Sheets	96.7	93.4	83.6	73.8	64.6	55.8	53.2	51.5	48.8	38.8
 Hutcheson Ferry	97.5	94.2	84.4	74.6	65.4	56.7	54.0	52.3	49.6	39.6
 Whitesburg	104.0	100.7	90.9	81.1	71.9	63.2	60.5	58.8	56.1	46.1
 McIntosh Reserve	108.2	104.9	95.1	85.3	76.1	67.4	64.7	63.1	60.3	50.3
 Chattahoochee Bend State Park Riverside	114.5	111.2	101.4	91.6	82.4	73.6	71.0	69.3	66.5	56.6

	 Riverwalk Atlanta	 Whittier Mill Park	 Nickajack Creek (at Cobb County Pilot Site)	 Mableton Parkway	 Camp Creek	 South Fulton (at Fairburn Rd)	 Old Campbellton SUB-AREA 2	 Duncan Memorial SUB-AREA 3	 Foxhall Resort	 Chattahoochee Hills RiverLands Park	 Silk Sheets (at Campbellton Redwine Rd)	 Hutcheson Ferry	 Whitesburg	 McIntosh Reserve	 Chattahoochee Bend State Park Riverside
	59.2	59.8	62.2	63.8	68.1	73.3	78.8	86.4	90.7	95.9	96.7	97.5	104.0	108.2	114.5
	55.9	56.5	59.0	60.5	64.9	70.0	75.5	83.1	87.4	92.6	93.4	94.2	100.7	104.9	111.2
	46.1	46.7	49.1	50.7	55.0	60.2	65.7	73.3	77.6	82.8	83.6	84.4	90.9	95.1	101.4
	36.3	36.9	39.3	40.9	45.2	50.4	55.9	63.5	67.8	73.0	73.8	74.6	81.1	85.3	91.6
	27.1	27.7	30.1	31.7	36.0	41.2	46.7	54.3	58.6	63.8	64.6	65.4	71.9	76.1	82.4
	18.4	18.9	21.4	23.0	27.3	32.4	37.9	45.6	49.8	55.0	55.8	56.7	63.2	67.4	73.6
	15.7	16.3	18.8	20.3	24.7	29.8	35.3	42.9	47.2	52.4	53.2	54.0	60.5	64.7	71.0
	14.0	14.6	17.1	18.6	23.0	28.1	33.6	41.2	45.5	50.7	51.5	52.3	58.8	63.1	69.3
	11.3	11.9	14.3	15.9	20.2	25.4	30.9	38.5	42.8	48.0	48.8	49.6	56.1	60.3	66.5
	1.3	1.9	4.3	5.9	10.3	15.4	20.9	28.5	32.8	38.0	38.8	39.6	46.1	50.3	56.6
		0.6	3.0	4.6	8.9	14.1	19.6	27.2	31.5	36.7	37.5	38.3	44.8	49.0	55.3
	0.6		2.5	4.0	8.4	13.5	19.0	26.6	30.9	36.1	36.9	37.7	44.3	48.5	54.7
	3.0	2.5		1.6	5.9	11.0	16.5	24.2	28.4	33.6	34.4	35.3	41.8	46.0	52.2
	4.6	4.0	1.6		4.3	9.5	15.0	22.6	26.9	32.1	32.9	33.7	40.2	44.4	50.7
	8.9	8.4	5.9	4.3		5.1	10.6	18.2	22.5	27.7	28.5	29.4	35.9	40.1	46.3
	14.1	13.5	11.0	9.5	5.1		5.5	13.1	17.4	22.6	23.4	24.2	30.7	34.9	41.2
	19.6	19.0	16.5	15.0	10.6	5.5		7.6	11.9	17.1	17.9	18.7	25.2	29.4	35.7
	27.2	26.6	24.2	22.6	18.2	13.1	7.6		6.3	11.5	12.3	13.1	19.6	23.8	30.0
	31.5	30.9	28.4	26.9	22.5	17.4	11.9	6.3		5.2	6.0	6.8	13.3	17.5	23.8
	36.7	36.1	33.6	32.1	27.7	22.6	17.1	11.5	5.2		0.8	1.6	8.1	12.4	18.6
	37.5	36.9	34.4	32.9	28.5	23.4	17.9	12.3	6.0	0.8		0.8	7.3	11.5	17.8
	38.3	37.7	35.3	33.7	29.4	24.2	18.7	13.1	6.8	1.6	0.8		6.5	10.7	16.9
	44.8	44.3	41.8	40.2	35.9	30.7	25.2	19.6	13.3	8.1	7.3	6.5		4.2	10.4
	49.0	48.5	46.0	44.4	40.1	34.9	29.4	23.8	17.5	12.4	11.5	10.7	4.2		6.2
	55.3	54.7	52.2	50.7	46.3	41.2	35.7	30.0	23.8	18.6	17.8	16.9	10.4	6.2	

# WATER ACCESS MILEAGE CHART

Use the chart below to pinpoint the distance between your put-in and take-out points.

## KEY

-  Existing Boat Ramp
-  Proposed Boat Ramp
-  Existing Kayak Launch
-  Proposed Kayak Launch

	CRNRA: Buford Dam Tailwater	Sugar Hill	CRNRA: Settles Bridge	Chattahoochee Pointe Park	CRNRA: McGinnis Ferry	CRNRA: Suwanee Creek	CRNRA: Rogers Bridge	CRNRA: Abbotts Bridge	CRNRA: Medlock Bridge	CRNRA: Jones Bridge	CRNRA: CREEC	CRNRA: Garrard Landing	Horseshoe Bend	Eves Road	CRNRA: Island Ford	Don White	River Landing	Azalea
CRNRA: Buford Dam Tailwater		2.5	4.8	7.3	8.9	11.2	12.1	14.1	18.1	21.0	22.3	23.6	24.9	28.3	28.7	30.6	32.0	32.3
Sugar Hill	2.5		2.3	4.7	6.3	8.7	9.5	11.5	15.5	18.5	19.8	21.0	22.3	25.7	26.1	28.0	29.4	29.8
CRNRA: Settles Bridge	4.8	2.3		2.4	4.0	6.4	7.2	9.2	13.2	16.2	17.5	18.7	20.0	23.4	23.8	25.7	27.1	27.5
Chattahoochee Pointe Park	7.3	4.7	2.4		1.6	4.0	4.8	6.8	10.8	13.7	15.0	16.3	17.6	21.0	21.4	23.3	24.7	25.0
CRNRA: McGinnis Ferry	8.9	6.3	4.0	1.6		2.4	3.2	5.2	9.2	12.1	13.4	14.7	16.0	19.4	19.8	21.7	23.1	23.4
CRNRA: Suwanee Creek	11.2	8.7	6.4	4.0	2.4		0.8	2.8	6.8	9.8	11.1	12.3	13.6	17.0	17.4	19.3	20.7	21.1
CRNRA: Rogers Bridge	12.1	9.5	7.2	4.8	3.2	0.8		2.0	6.0	8.9	10.2	11.5	12.8	16.2	16.6	18.5	19.9	20.2
CRNRA: Abbotts Bridge	14.1	11.5	9.2	6.8	5.2	2.8	2.0		4.0	7.0	8.3	9.5	10.8	14.2	14.6	16.5	17.9	18.3
CRNRA: Medlock Bridge	18.1	15.5	13.2	10.8	9.2	6.8	6.0	4.0		3.0	4.3	5.5	6.8	10.2	10.6	12.5	13.9	14.3
CRNRA: Jones Bridge	21.0	18.5	16.2	13.7	12.1	9.8	8.9	7.0	3.0		1.3	2.6	3.9	7.3	7.7	9.6	10.9	11.3
CRNRA: CREEC	22.3	19.8	17.5	15.0	13.4	11.1	10.2	8.3	4.3	1.3		1.3	2.6	6.0	6.4	8.3	9.6	10.0
CRNRA: Garrard Landing	23.6	21.0	18.7	16.3	14.7	12.3	11.5	9.5	5.5	2.6	1.3		1.3	4.7	5.1	7.0	8.4	8.7
Horseshoe Bend	24.9	22.3	20.0	17.6	16.0	13.6	12.8	10.8	6.8	3.9	2.6	1.3		3.4	3.8	5.7	7.1	7.5
Eves Road	28.3	25.7	23.4	21.0	19.4	17.0	16.2	14.2	10.2	7.3	6.0	4.7	3.4		0.4	2.3	3.7	4.0
CRNRA: Island Ford	28.7	26.1	23.8	21.4	19.8	17.4	16.6	14.6	10.6	7.7	6.4	5.1	3.8	0.4		1.9	3.3	3.7
Don White Memorial	30.6	28.0	25.7	23.3	21.7	19.3	18.5	16.5	12.5	9.6	8.3	7.0	5.7	2.3	1.9		1.4	1.7
River Landing	32.0	29.4	27.1	24.7	23.1	20.7	19.9	17.9	13.9	10.9	9.6	8.4	7.1	3.7	3.3	1.4		0.4
Azalea	32.3	29.8	27.5	25.0	23.4	21.1	20.2	18.3	14.3	11.3	10.0	8.7	7.5	4.0	3.7	1.7	0.4	
CRNRA: Gold Branch	34.1	31.5	29.2	26.8	25.2	22.8	22.0	20.0	16.0	13.1	11.8	10.5	9.2	5.8	5.4	3.5	2.1	1.7
Bull Sluice Lake	35.7	33.1	30.9	28.4	26.8	24.5	23.6	21.6	17.6	14.7	13.4	12.1	10.8	7.4	7.0	5.1	3.7	3.4
Morgan Falls	36.4	33.8	31.5	29.1	27.5	25.1	24.3	22.3	18.3	15.3	14.0	12.8	11.5	8.1	7.7	5.8	4.4	4.0
CRNRA: Johnson Ferry	38.4	35.9	33.6	31.1	29.5	27.2	26.3	24.3	20.4	17.4	16.1	14.8	13.5	10.1	9.7	7.8	6.5	6.1
CRNRA: Powers Island	42.4	39.9	37.6	35.2	33.6	31.2	30.4	28.4	24.4	21.4	20.1	18.9	17.6	14.2	13.8	11.9	10.5	10.1
CRNRA: Palisades West	43.6	41.1	38.8	36.3	34.7	32.4	31.5	29.6	25.6	22.6	21.3	20.0	18.8	15.3	15.0	13.0	11.7	11.3
CRNRA: Paces Mill North	45.1	42.6	40.3	37.8	36.2	33.9	33.0	31.1	27.1	24.1	22.8	21.5	20.2	16.8	16.4	14.5	13.2	12.8
SUB-AREA 1 CRNRA: Paces Mill South	45.4	42.8	40.5	38.1	36.5	34.1	33.3	31.3	27.3	24.4	23.1	21.8	20.5	17.1	16.7	14.8	13.4	13.0
SUB-AREA 2 Standing Peachtree	48.4	45.8	43.5	41.1	39.5	37.1	36.3	34.3	30.3	27.4	26.1	24.8	23.5	20.1	19.7	17.8	16.4	16.1
Riverwalk Atlanta	49.8	47.3	45.0	42.6	41.0	38.6	37.8	35.8	31.8	28.8	27.5	26.3	25.0	21.6	21.2	19.3	17.9	17.5
Nickajack Creek	53.5	50.9	48.6	46.2	44.6	42.2	41.4	39.4	35.4	32.5	31.2	29.9	28.6	25.2	24.8	22.9	21.5	21.2
Mableton Parkway	54.6	52.0	49.7	47.3	45.7	43.3	42.5	40.5	36.5	33.5	32.2	31.0	29.7	26.3	25.9	24.0	22.6	22.2
Buzzard's Roost	58.1	55.6	53.3	50.9	49.3	46.9	46.1	44.1	40.1	37.1	35.8	34.6	33.3	29.9	29.5	27.6	26.2	25.8
Camp Creek	58.6	56.1	53.8	51.4	49.8	47.4	46.6	44.6	40.6	37.6	36.3	35.1	33.8	30.4	30.0	28.1	26.7	26.3
Hooch	63.2	60.7	58.4	56.0	54.3	52.0	51.1	49.2	45.2	42.2	40.9	39.7	38.4	35.0	34.6	32.7	31.3	30.9
SUB-AREA 2 Old Campbellton	67.8	65.2	62.9	60.5	58.9	56.5	55.7	53.7	49.7	46.8	45.5	44.2	42.9	39.5	39.1	37.2	35.8	35.5
SUB-AREA 3 Chattahoochee Hills	70.6	68.1	65.8	63.3	61.7	59.4	58.5	56.6	52.6	49.6	48.3	47.0	45.7	42.3	41.9	40.0	38.7	38.3
Duncan Memorial	73.5	71.0	68.7	66.2	64.6	62.3	61.4	59.4	55.5	52.5	51.2	49.9	48.6	45.2	44.8	42.9	41.6	41.2
Foxhall Resort	78.6	76.1	73.8	71.3	69.7	67.4	66.5	64.6	60.6	57.6	56.3	55.0	53.8	50.3	50.0	48.0	46.7	46.3
Chattahoochee Hills RiverLands Park	83.5	81.0	78.7	76.2	74.6	72.3	71.4	69.4	65.5	62.5	61.2	59.9	58.6	55.2	54.8	52.9	51.6	51.2
Moore's Bridge Boat Ramp	89.3	86.7	84.4	82.0	80.4	78.0	77.2	75.2	71.2	68.3	67.0	65.7	64.4	61.0	60.6	58.7	57.3	57.0
Coweta County Riverside Park	90.2	87.6	85.3	82.9	81.3	78.9	78.1	76.1	72.1	69.2	67.9	66.6	65.3	61.9	61.5	59.6	58.2	57.9
McIntosh Reserve	96.0	93.4	91.1	88.7	87.1	84.7	83.9	81.9	77.9	75.0	73.7	72.4	71.1	67.7	67.3	65.4	64.0	63.7
Chattahoochee Bend State Park Riverside	100.5	98.0	95.7	93.2	91.6	89.3	88.4	86.5	82.5	79.5	78.2	76.9	75.6	72.2	71.8	69.9	68.6	68.2



	CRNRA: Gold Branch	Bull Stuiice Lake	Morgan Falls	CRNRA: Johnson Ferry	CRNRA: Powers Island	CRNRA: Palisades West	CRNRA: Paces Mill North	CRNRA: Paces Mill South	Standing Peachtree	Riverwalk Atlanta	Nickjack Creek	Mableton Parkway	Buzzard's Roost	Camp Creek	Hooch	Old Campbellton	Chattahoochee Hills	Duncan Memorial	Foxhall Resort	Chattahoochee Hills RiverLands Park	Moore's Bridge	Coweta County Riverside Park	McIntosh Reserve	Chattahoochee Bend State Park	Riverside
	34.1	35.7	36.4	38.4	42.4	43.6	45.1	45.4	48.4	49.8	53.5	54.6	58.1	58.6	63.2	67.8	70.6	73.5	78.6	83.5	89.3	90.2	96.0	100.5	
	31.5	33.1	33.8	35.9	39.9	41.1	42.6	42.8	45.8	47.3	50.9	52.0	55.6	56.1	60.7	65.2	68.1	71.0	76.1	81.0	86.7	87.6	93.4	98.0	
	29.2	30.9	31.5	33.6	37.6	38.8	40.3	40.5	43.5	45.0	48.6	49.7	53.3	53.8	58.4	62.9	65.8	68.7	73.8	78.7	84.4	85.3	91.1	95.7	
	26.8	28.4	29.1	31.1	35.2	36.3	37.8	38.1	41.1	42.6	46.2	47.3	50.9	51.4	56.0	60.5	63.3	66.2	71.3	76.2	82.0	82.9	88.7	93.2	
	25.2	26.8	27.5	29.5	33.6	34.7	36.2	36.5	39.5	41.0	44.6	45.7	49.3	49.8	54.3	58.9	61.7	64.6	69.7	74.6	80.4	81.3	87.1	91.6	
	22.8	24.5	25.1	27.2	31.2	32.4	33.9	34.1	37.1	38.6	42.2	43.3	46.9	47.4	52.0	56.5	59.4	62.3	67.4	72.3	78.0	78.9	84.7	89.3	
	22.0	23.6	24.3	26.3	30.4	31.5	33.0	33.3	36.3	37.8	41.4	42.5	46.1	46.6	51.1	55.7	58.5	61.4	66.5	71.4	77.2	78.1	83.9	88.4	
	20.0	21.6	22.3	24.3	28.4	29.6	31.1	31.3	34.3	35.8	39.4	40.5	44.1	44.6	49.2	53.7	56.6	59.4	64.6	69.4	75.2	76.1	81.9	86.5	
	16.0	17.6	18.3	20.4	24.4	25.6	27.1	27.3	30.3	31.8	35.4	36.5	40.1	40.6	45.2	49.7	52.6	55.5	60.6	65.5	71.2	72.1	77.9	82.5	
	13.1	14.7	15.3	17.4	21.4	22.6	24.1	24.4	27.4	28.8	32.5	33.5	37.1	37.6	42.2	46.8	49.6	52.5	57.6	62.5	68.3	69.2	75.0	79.5	
	11.8	13.4	14.0	16.1	20.1	21.3	22.8	23.1	26.1	27.5	31.2	32.2	35.8	36.3	40.9	45.5	48.3	51.2	56.3	61.2	67.0	67.9	73.7	78.2	
	10.5	12.1	12.8	14.8	18.9	20.0	21.5	21.8	24.8	26.3	29.9	31.0	34.6	35.1	39.7	44.2	47.0	49.9	55.0	59.9	65.7	66.6	72.4	76.9	
	9.2	10.8	11.5	13.5	17.6	18.8	20.2	20.5	23.5	25.0	28.6	29.7	33.3	33.8	38.4	42.9	45.7	48.6	53.8	58.6	64.4	65.3	71.1	75.6	
	5.8	7.4	8.1	10.1	14.2	15.3	16.8	17.1	20.1	21.6	25.2	26.3	29.9	30.4	35.0	39.5	42.3	45.2	50.3	55.2	61.0	61.9	67.7	72.2	
	5.4	7.0	7.7	9.7	13.8	15.0	16.4	16.7	19.7	21.2	24.8	25.9	29.5	30.0	34.6	39.1	41.9	44.8	50.0	54.8	60.6	61.5	67.3	71.8	
	3.5	5.1	5.8	7.8	11.9	13.0	14.5	14.8	17.8	19.3	22.9	24.0	27.6	28.1	32.7	37.2	40.0	42.9	48.0	52.9	58.7	59.6	65.4	69.9	
	2.1	3.7	4.4	6.5	10.5	11.7	13.2	13.4	16.4	17.9	21.5	22.6	26.2	26.7	31.3	35.8	38.7	41.6	46.7	51.6	57.3	58.2	64.0	68.6	
	1.7	3.4	4.0	6.1	10.1	11.3	12.8	13.0	16.1	17.5	21.2	22.2	25.8	26.3	30.9	35.5	38.3	41.2	46.3	51.2	57.0	57.9	63.7	68.2	
		1.6	2.3	4.3	8.4	9.6	11.0	11.3	14.3	15.8	19.4	20.5	24.1	24.6	29.2	33.7	36.5	39.4	44.6	49.4	55.2	56.1	61.9	66.4	
	1.6		0.7	2.7	6.7	7.9	9.4	9.7	12.7	14.1	17.8	18.9	22.5	22.9	27.5	32.1	34.9	37.8	42.9	47.8	53.6	54.5	60.3	64.8	
	2.3	0.7		2.0	6.1	7.3	8.8	9.0	12.0	13.5	17.1	18.2	21.8	22.3	26.9	31.4	34.3	37.1	42.3	47.1	52.9	53.8	59.6	64.2	
	4.3	2.7	2.0		4.0	5.2	6.7	7.0	10.0	11.4	15.1	16.2	19.7	20.2	24.8	29.4	32.2	35.1	40.2	45.1	50.9	51.8	57.6	62.1	
	8.4	6.7	6.1	4.0		1.2	2.7	2.9	5.9	7.4	11.0	12.1	15.7	16.2	20.8	25.3	28.2	31.1	36.2	41.1	46.8	47.7	53.5	58.1	
	9.6	7.9	7.3	5.2	1.2		1.5	1.7	4.8	6.2	9.9	10.9	14.5	15.0	19.6	24.2	27.0	29.9	35.0	39.9	45.7	46.5	52.4	56.9	
	11.0	9.4	8.8	6.7	2.7	1.5		0.3	3.3	4.7	8.4	9.4	13.0	13.5	18.1	22.7	25.5	28.4	33.5	38.4	44.2	45.1	50.9	55.4	
	11.3	9.7	9.0	7.0	2.9	1.7	0.3		3.0	4.5	8.1	9.2	12.8	13.3	17.9	22.4	25.2	28.1	33.3	38.1	43.9	44.8	50.6	55.1	
	14.3	12.7	12.0	10.0	5.9	4.8	3.3	3.0		1.5	5.1	6.2	9.8	10.3	14.9	19.4	22.2	25.1	30.3	35.1	40.9	41.8	47.6	52.1	
	15.8	14.1	13.5	11.4	7.4	6.2	4.7	4.5	1.5		3.6	4.7	8.3	8.8	13.4	17.9	20.8	23.7	28.8	33.7	39.4	40.3	46.1	50.7	
	19.4	17.8	17.1	15.1	11.0	9.9	8.4	8.1	5.1	3.6		1.1	4.7	5.2	9.8	14.3	17.1	20.0	25.1	30.0	35.8	36.7	42.5	47.0	
	20.5	18.9	18.2	16.2	12.1	10.9	9.4	9.2	6.2	4.7	1.1		3.6	4.1	8.7	13.2	16.1	18.9	24.1	29.0	34.7	35.6	41.4	46.0	
	24.1	22.5	21.8	19.7	15.7	14.5	13.0	12.8	9.8	8.3	4.7	3.6		0.5	5.1	9.6	12.5	15.4	20.5	25.4	31.1	32.0	37.8	42.4	
	24.6	22.9	22.3	20.2	16.2	15.0	13.5	13.3	10.3	8.8	5.2	4.1	0.5		4.6	9.1	12.0	14.9	20.0	24.9	30.6	31.5	37.3	41.9	
	29.2	27.5	26.9	24.8	20.8	19.6	18.1	17.9	14.9	13.4	9.8	8.7	5.1	4.6		4.5	7.4	10.3	15.4	20.3	26.1	26.9	32.8	37.3	
	33.7	32.1	31.4	29.4	25.3	24.2	22.7	22.4	19.4	17.9	14.3	13.2	9.6	9.1	4.5		2.8	5.7	10.8	15.7	21.5	22.4	28.2	32.7	
	36.5	34.9	34.3	32.2	28.2	27.0	25.5	25.2	22.2	20.8	17.1	16.1	12.5	12.0	7.4	2.8		2.9	8.0	12.9	18.7	19.6	25.4	29.9	
	39.4	37.8	37.1	35.1	31.1	29.9	28.4	28.1	25.1	23.7	20.0	18.9	15.4	14.9	10.3	5.7	2.9		5.1	10.0	15.8	16.7	22.5	27.0	
	44.6	42.9	42.3	40.2	36.2	35.0	33.5	33.3	30.3	28.8	25.1	24.1	20.5	20.0	15.4	10.8	8.0	5.1		4.9	10.7	11.5	17.4	21.9	
	49.4	47.8	47.1	45.1	41.1	39.9	38.4	38.1	35.1	33.7	30.0	29.0	25.4	24.9	20.3	15.7	12.9	10.0	4.9		5.8	6.7	12.5	17.0	
	55.2	53.6	52.9	50.9	46.8	45.7	44.2	43.9	40.9	39.4	35.8	34.7	31.1	30.6	26.1	21.5	18.7	15.8	10.7	5.8		0.9	6.7	11.2	
	56.1	54.5	53.8	51.8	47.7	46.5	45.1	44.8	41.8	40.3	36.7	35.6	32.0	31.5	26.9	22.4	19.6	16.7	11.5	6.7	0.9		5.8	10.3	
	61.9	60.3	59.6	57.6	53.5	52.4	50.9	50.6	47.6	46.1	42.5	41.4	37.8	37.3	32.8	28.2	25.4	22.5	17.4	12.5	6.7	5.8		4.5	
	66.4	64.8	64.2	62.1	58.1	56.9	55.4	55.1	52.1	50.7	47.0	46.0	42.4	41.9	37.3	32.7	29.9	27.0	21.9	17.0	11.2	10.3	4.5		



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