United States Department of Agriculture

Quantifying the Role of National Forest System Lands in Providing Surface Drinking Water Supply for the Southern United States

Peter Caldwell, Corinne Muldoon, Chelcy Ford Miniat, Erika Cohen, Suzanne Krieger, Ge Sun, Steven McNulty, and Paul V. Bolstad

The Authors:

Peter Caldwell, Research Hydrologist, Coweeta Hydrologic Laboratory, Southern Research Station, U.S. Department of Agriculture Forest Service, Otto, NC 28763; **Corinne Muldoon**, Biological Science Technician, University of Minnesota, Otto, NC 28763; **Chelcy Ford Miniat**, Project Leader, Coweeta Hydrologic Laboratory, Southern Research Station, U.S. Department of Agriculture Forest Service, Otto, NC 28763; **Erika Cohen**, Resource Information Specialist, Eastern Forest Environmental Threat Assessment Center, Southern Research Station, U.S. Department of Agriculture Forest Service, Raleigh, NC 27606; **Suzanne Krieger**, Regional Hydrology Program Manager, Region 8, U.S. Department of Agriculture Forest Service, Atlanta, GA 30309; **Ge Sun**, Research Hydrologist, Eastern Forest Environmental Threat Assessment Center, Southern Research Station, U.S. Department of Agriculture Forest Service, Raleigh, NC 27606; **Steven McNulty**, Director, Southeast Regional Climate Hub, Southern Research Station, U.S. Department of Agriculture Forest Service, Raleigh, NC 27606; **Paul V. Bolstad**, Professor, Department of Forest Resources, University of Minnesota, St. Paul, MN 55108.

DRAFT

Cover photo

The Chattahoochee River at the Devil's Shoals, East Palisades Park, Fulton County, Georgia. (USDA Forest Service, Bugwood.org)

Disclaimer

Any opinions, findings, conclusions, or recommendations expressed in the material are those of the authors and do not necessarily reflect the views of the USDA Forest Service or the University of Minnesota.

Forest Service
Southern Research Station
GTR-SRS-XXX

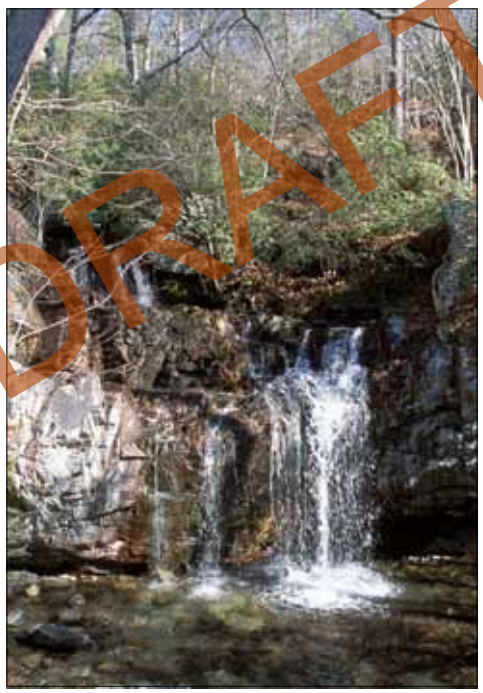
August 2014
Southern Research Station
200 W.T. Weaver Blvd.
Asheville, NC 28804

www.srs.fs.usda.gov

Quantifying the Role of National Forest System Lands in Providing Surface Drinking Water Supply for the Southern United States

Peter Caldwell, Corinne Muldoon, Chelcy Ford Miniat, Erika Cohen, Suzanne Krieger, Ge Sun, Steven McNulty, and Paul V. Bolstad

DRAFT



High Falls, Talladega National Forest. (James H. Miller, USDA Forest Service, Bugwood.org)

DRAFT

Contents

Introduction 1

The Forest–Water–People Connection 1

Forest Service Protection of Water Resources through Forest Management 1

Forests and Water in the South 2

How Much Do People Depend on Water from Southern Forests? 2

Methods 3

Extent and Scale of Analysis 3

Quantifying Water Supply from Forested Lands 5

Drinking Water Intakes and Population Served 8

Linking Water from Forested Lands to Drinking Water Intakes 8

Results 9

Water Supply from Forested Lands 9

Population and Communities Served by Water from Forested Lands 12

Case Study: Chattahoochee National Forest 15

Discussion 18

Summary and Conclusions 19

Acknowledgments 20

References 20

Appendix 22

DRAFT

Oak shelterwood, Ozark National Forest. (Brian Lockhart, USDA Forest Service, Bugwood.org)

ABSTRACT

Forests and water are inextricably linked, and people are dependent on forested lands to provide clean, reliable water supplies for drinking and to support local economies. These water supplies are at risk of degradation from a growing population, continued conversion of forests to other land uses, and climate change. Given the variety of threats to surface water, it is important for forest managers to know how much of the drinking water supply originates in forests they manage and what populations and communities are served by that water. In this analysis, we used a hydrologic model, Water Supply Stress Index (WaSSI), and a database of surface water intakes to quantify the extent to which people depend on surface water from USDA Forest Service National Forest System (NFS) lands and State and private forest lands in the South. We computed the water yield for NFS lands in addition to other land cover types, and accumulated and tracked water from NFS and State and private forest lands through the river network. We then estimated the population served by water from NFS lands across the South using the U.S. Environmental Protection Agency's Safe Drinking Water Act database of drinking water intakes. We estimated that NFS lands contributed 3.4 percent and State and private forest lands 32.4 percent of the approximately 900 million m^3/year of total surface water supply in the region. Of the 6,724 public surface water intakes in the South, 1,541 intakes serving 19.0 million people receive some water from all NFS lands in and upstream of the 13 Southern States. Of the 1,541 intakes, 427 received more than 20 percent of their water from NFS lands and served 3.2 million people. Similarly, 6,188 intakes serving 48.7 million people receive some water from State and private forest lands. Of the 6,188 intakes, 3,143 received more than 20 percent of their water from State and private forest lands and served 29.0 million people. These results highlight the importance of southern forests in providing clean and dependable water supplies to downstream communities. While environmental and economic factors are likely to interact and cause changes in water availability and quality, forest conservation and proper management can help mitigate these effects.

Keywords: drinking water, hydrologic modeling, National Forest System, State and private forest lands, WaSSI, water supply.

DRAFT

Introduction

The Forest–Water–People Connection

There is a well-known link between forests and water quantity and quality (Brown and others 2008, Lockaby and others 2011, Sedell and others 2000, Sun and others 2004). Decades of research have shown how forests help filter water, mitigate flooding, recharge groundwater, and regulate the timing and magnitude of streamflows (Anderson and others 1976, Jackson and others 2004, Lockaby and others 2011, Sun and others 2004). Conversion of forests to urban and agricultural land covers threatens water resources but is increasingly common as populations grow and expand (Lockaby and others 2011, Sun and others 2005). Urban and intensive agricultural land uses can impair water quality by introducing nutrients, sediment, bacteria, and other pollutants to streams and rivers (Lockaby and others 2011, Paul and Meyer 2001). Impervious surfaces associated with urban development also impact water quantity by increasing overland flow, reducing infiltration, diverting runoff, and increasing peak flows (Lockaby and others 2011, Paul and Meyer 2001, Sun and Lockaby 2012, Wheater and Evans 2009).

People around the world rely on healthy forests for clean and abundant drinking water. Globally, about one-third (33 out of 105) of the world's largest cities obtain a significant proportion of their drinking water directly from protected forest areas (Dudley and Stolton 2003). For example, initial estimates suggest that while Federal, State, and private forests make up 29 percent of the land area of the conterminous United States, these lands provide approximately 53 percent of the total water yield (Brown and others 2008). Nearly 80 percent of our Nation's streams originate on both public and private forested land (Sedell and others 2000), making preservation of healthy, productive forests imperative for our current and future water supply to abate human health and economic consequences (Postel and Thompson 2005).

Water Yield

Water yield is the amount of excess water leaving a watershed as streamflow after accounting for losses that include changes in water storage in the soil, evaporation, and transpiration from vegetation.

Climate, soils, elevation, topography, and land cover type all play a role in the magnitude and timing of water yield across diverse forests of the South.

Water yield is the basis for surface water supply, which can be calculated by accumulating the water volume generated from each land cover type in the entire land area upstream of a location of interest.

About one-third (33 out of 105) of the world's largest cities obtain a significant proportion of their drinking water directly from protected forest areas.

DRAFT

Forest Service Protection of Water Resources through Forest Management

For more than a century, U.S. legislation has emphasized the importance of protecting inextricably linked forest and water resources. The Organic Act of 1897, the Weeks Act of 1911, the Sustained Yield Forest Management Act of 1944, and the National Forest Management Act of 1976 all sought to safeguard our Nation's forests and water resources. The Forest Service, U.S. Department of Agriculture upholds this legislation and is dedicated to the future improvement of water resources through restoration and enhancement of forested landscapes. The Forest Service currently manages 193 million acres of public National Forests, Grasslands, and a Tallgrass Prairie, including lands in 44 States and the Commonwealth of Puerto Rico. In addition, the Forest Service cooperates with States, other Federal agencies, Tribes, and private landowners to sustain the Nation's private forests and grasslands. The Forest Service National Forest System (NFS) includes 155 National Forests, 20 National Grasslands, 20 National Recreation Areas, a National Tallgrass Prairie, 6 National Monuments, and 6 Land Utilization Projects. In total, the Forest Service manages 147 million acres of the total 751 million acres (20 percent) of forested land in the conterminous United States (Smith and others 2009).

Forests and Water in the South

Southern forests are especially important for water supply to major population centers in the region. Forests cover 27 percent of the total land area of the 13 Southern States of Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana, Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Virginia while providing 34 percent of the total available water yield in the South (Lockaby and others 2011). The Forest Service Region 8 (R8) manages 13.3 million acres of NFS lands that include 33 National Forests, two Grasslands, and one National Recreation Area in the 13 Southern States from Texas to Virginia. Thirteen million acres (98 percent) of the NFS land in R8 is forested, representing 6 percent of the 215 million acres of all forested land in the South (Smith and others 2009).

DRAFT

Forest managers need to know how much of the drinking water supply originates in their forests and what populations and communities are served by that water.

How Much Do People Depend on Water from Southern Forests?

Pressure on National Forests in the South to provide clean water will increase to meet increasing demand by downstream communities while land conversion and climate change threaten the resource itself (Sun and others 2008). Many major population centers in the South are highly dependent on water originating on forested lands, but the extent of this dependence has not been quantified. Given the variety of threats to surface water, forest managers need to know how much of the drinking water supply originates in their forests and what populations and communities are served by that water; this information highlights the importance of conservation and management of forests for clean and dependable water supplies in downstream communities. The objective of this analysis was to address this need by 1) estimating how much fresh surface water supply in the South originates from NFS lands and State and private forest lands, and 2) estimating how many people and which communities in the South depend on this fresh surface water supply.

Methods

Extent and Scale of Analysis

This study focused on surface water supply and drinking water intakes in the 13 Southern States. We estimated the amount of surface water supply to intakes located in these States that originated on all NFS lands (forests and grasslands) and all State and private forest lands that are either in or upstream of the 13 Southern States (figs. 1 and 2). The NFS lands within the boundaries of the 13 Southern States approximate the Forest Service R8 NFS lands with some exceptions. McClellan Creek National Grassland (1,400 acres), Black Kettle National Grassland (31,000 acres), and Rita Blanca National Grassland (93,000 acres) in west Texas and Oklahoma are not managed by R8 but, for this analysis, were considered to be in the southern region because they lie within the boundaries of the 13 Southern States. Part of the Jefferson National Forest lies in West Virginia, but West Virginia was not included in the 13 Southern States. The surface water originating on the portion of the Jefferson National Forest in West Virginia was estimated as part of this analysis because this water later drains to the 13 Southern States. However, intakes in West Virginia served by this water were not included because they are not in the 13 Southern States. Although Puerto Rico is part of R8, it was not included in this analysis because the necessary modeling tools have not been developed to simulate and track water supply from NFS and State and private forest lands in this area.

DRAFT

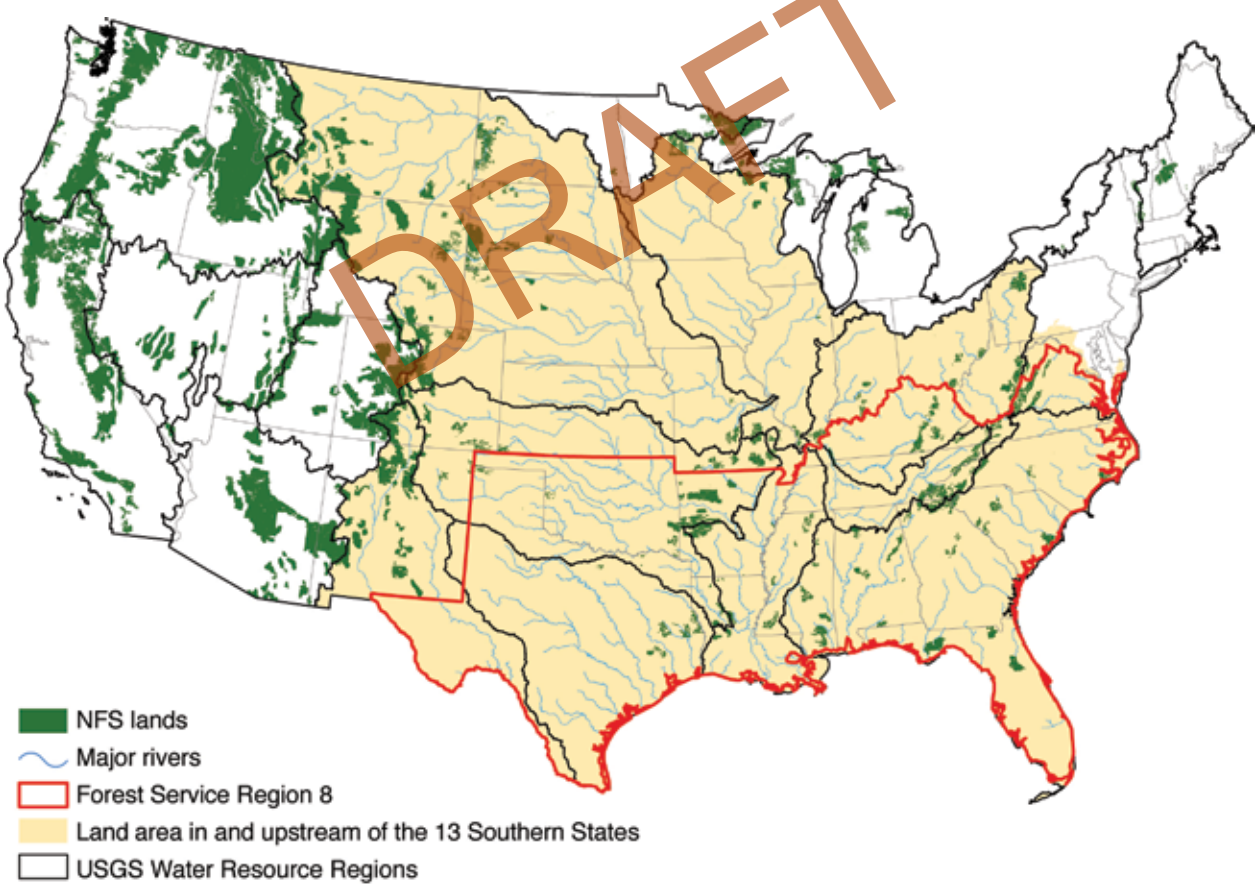


Figure 1—National Forest System (NFS) lands and the land area simulated to estimate total surface water supply and the amount of water supply originating on NFS lands and State and private forest lands serving drinking water intakes in the South.

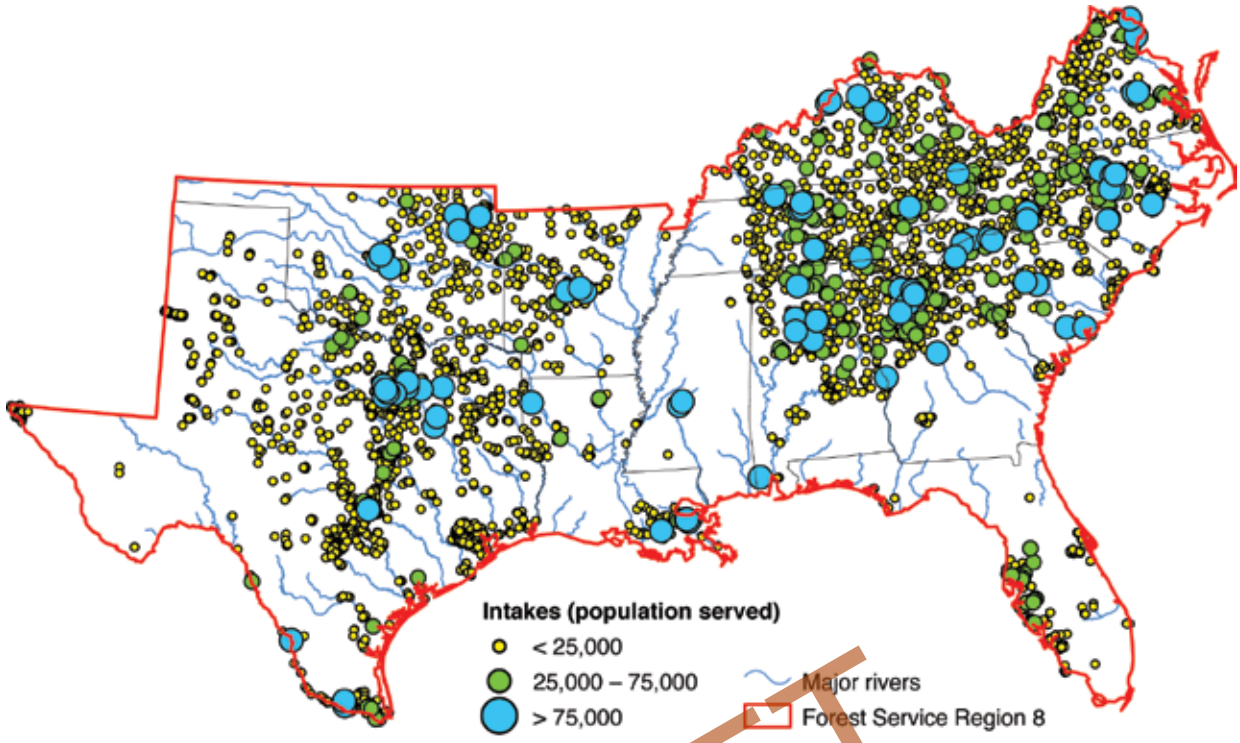


Figure 2—The 6,724 surface water intakes in the South and population served by those intakes. Intakes are sized and colored according to the population that depends on water from these intakes.

DRAFT

The spatial resolution of our analysis was the 12-digit, or sixth-level, Hydrologic Unit Code (HUC12) watershed scale. The HUC12 is defined in a national standard, six-level hierarchical system of hydrologic units in the United States ranging from 18 Water Resource Regions (see fig. 1) in the conterminous United States at the first and most spatially coarse level to approximately 83,000 HUC12 watersheds at the sixth and most spatially fine level. There are approximately 23,000 HUC12s in R8; most are approximately 22,000 acres in size.

River scene. (USDA Forest Service, Bugwood.org)

Quantifying Water Supply from Forested Lands

The relative contribution of forests to the total water supply can be estimated for any point along a stream network—such as the location of a drinking water intake—by tracking water yield from forested lands through the river network. We used computer modeling and spatial analyses to quantify surface water supplied at watershed outlets across the South using the Water Supply Stress Index Model (WaSSI), a water balance model developed by the Forest Service to assess the impact of climate change, land use change, and population growth on water supply stress, river flows, and ecosystem productivity across the conterminous United States (Caldwell and others 2011, Caldwell and others 2012, Sun and others 2011b). WaSSI has been tested, validated, and used in climate change assessments in the Eastern United States (Lockaby and others 2011, Marion and others 2013, Sun and others 2013, Tavernia and others 2013), examining the nexus of water and energy at the national scale (Averyt and others 2011, Averyt and others 2013) and is the best available tool to quantify surface water supplied by National Forests to communities across broad regions.

TOP TO BOTTOM: Instruments on this tower collect data for WaSSI models; map generated by WaSSI showing predicted average annual surface water supply; international organizations use WaSSI to help develop conservation strategies. (USDA Forest Service)

WaSSI

Water Supply Stress Index

What is it?

WaSSI is a web-based planning tool that predicts the availability of water (and other ecosystem services) at local and national scales. It was developed by Forest Service scientists with the Eastern Forest Environmental Threat Assessment Center.

What can it do?

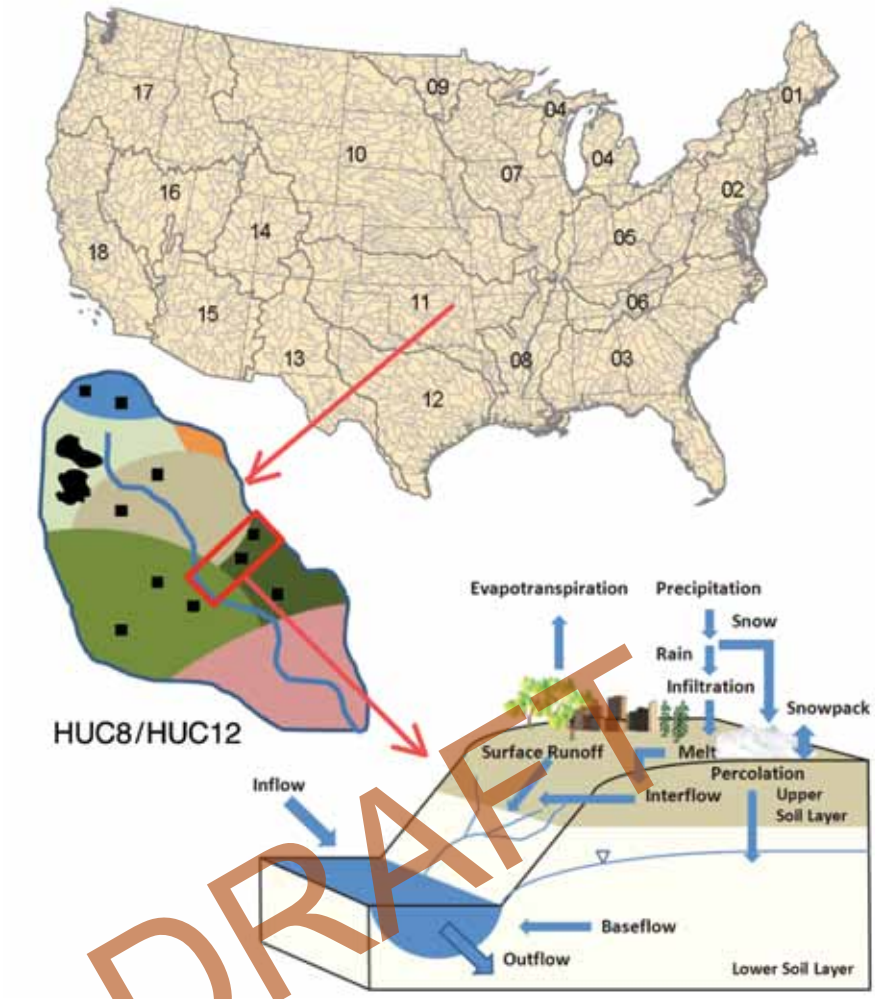
WaSSI produces maps, graphs, and data files that predict how climate, land cover, and human population change may impact water availability and carbon sequestration at the watershed level and across the lower 48 United States and Mexico.

Who uses it?

Natural resource planners and managers use information generated by **WaSSI** to make informed decisions about water supplies in light of climatic, economic, and demographic change. Educators, researchers, and nongovernmental organizations can also use **WaSSI** to gain insight into the effects of global change on water and carbon.

Visit www.forestthreats.org/research/tools/wassi to learn more and begin exploring WaSSI.

DRAFT



DRAFT

Figure 3—Schematic diagram illustrating the hydrological processes simulated by the Water Supply Stress Index Model (WaSSI). WaSSI uses national scale databases to predict water supply over the conterminous U.S. at the HUC12 scale.

WaSSI is an integrated monthly water balance and flow routing model that simulates the full hydrologic cycle for each of 10 land cover classes at the HUC12 scale (fig. 3) using readily available national scale databases describing soil properties, land cover, and monthly precipitation and temperature (table 1). Each database was rescaled from its native resolution to the HUC12 scale using an area-weighted averaging scheme in a Geographic Information System (GIS). In WaSSI, precipitation is partitioned into rain and snow using an air temperature-based conceptual snow accumulation and melt model (McCabe and Wolock 1999). The WaSSI model computes monthly infiltration, surface runoff, soil moisture, and baseflow processes for each HUC watershed land cover using algorithms of the Sacramento Soil Moisture Accounting Model (Burnash 1995, Burnash and others 1973). The soil profile is divided into a relatively thin upper layer and a much thicker lower layer which supplies moisture to meet the evapotranspiration (ET) demands (Koren and others 2003). Each layer consists of tension water storage (i.e., between soil water tensions of field capacity and the plant wilting point) and free water storage (i.e., soil water tension greater than field capacity) that interact to generate surface runoff, lateral water movement from the upper soil layer to the stream (interflow), percolation from the upper soil layer to the lower soil layer, and lateral water movement from the lower soil layer to the stream (baseflow) (fig. 3). The monthly ET demand is computed in WaSSI as a function of potential ET (Hamon 1963), precipitation, and leaf area index using empirical relationships derived from multisite eddy covariance measurements (Sun and others 2011a, Sun and others 2011b). Storage and ET for impervious cover in each HUC12 are assumed to be negligible; thus, all precipitation falling on the impervious portion of a

Table 1—Data inputs for the Water Supply Stess Index (WaSSI) model

Data/database	Source	Resolution	Time period
Soil properties	STATSGO-based Sacramento Soil Moisture Accounting Model soil parameters and NOAA-NWS Hydrology Laboratory. Office of Hydrologic Development.	1 X 1 km grid	–
Land cover distribution	National Land Cover Database for the conterminous United States (http://mrlc.gov/nlcd06_data.php)	30 X 30 m grid	2006
National Forest System lands	USFS Automated Lands Program Land Status Record System surface ownership parcels (basic ownership) (http://fsgeodata.fs.fed.us/vector/lsrs.php)	parcel	2013
Monthly mean leaf area index by land cover	Moderate Resolution Imaging Spectroradiometer (MODIS) (http://modis.gsfc.nasa.gov/)	1 X 1 km grid	2000–2006
Climate (monthly precipitation and temperature)	PRISM Climate Group (http://www.prism.oregonstate.edu/)	4 X 4 km grid	2001–2010
River network	National Hydrography Dataset (http://nhd.usgs.gov/data.html)	1:100,000	–
Watershed boundaries	Watershed Boundary Dataset (http://nhd.usgs.gov/wbd.html)	HUC12 (~90 km^2)	–

– = Input data assumed to be constant over time.

DRAFT

watershed for a given month is assumed to generate surface runoff in the same month and is routed directly to the watershed outlet. Water yield for each HUC12 is computed as the sum of surface runoff from pervious and impervious surfaces, interflow, and baseflow from all land cover types in each HUC12. Water yield is then routed and accumulated from upstream to downstream HUC12s along the river network to estimate the total water supply at the outlet of each HUC12. No anthropogenic water use was considered, and the model was run using off-the-shelf input datasets without calibration.

For this analysis, we overlaid the NFS surface ownership parcels on the HUC12 boundaries, the 2006 National Land Cover Database (NLCD), and the Moderate Resolution Imaging Spectroradiometer (MODIS) leaf area index model inputs to make an 11th land cover category for NFS lands. The NFS surface ownership parcels differ from NFS administrative forest boundaries in that NFS surface ownership parcels contain only those parcels owned by the NFS whereas the land in the NFS administrative boundaries include all lands within the broad jurisdiction of a given national forest regardless of whether or not the NFS owns the land. As we were interested in quantifying the importance of State and private forested lands for water supply in addition to NFS lands, we considered the remaining State, private, and small amount of other Federally-owned forested lands after the NFS lands overlay to reasonably represent State and private forests. We revised the WaSSI flow routing algorithm to track water flow from NFS (fig. 1) and State and private forest land cover classes through the river network. The WaSSI model was run at a monthly time step from 2001 to 2010 over the HUC12 watersheds in and upstream of the 13 Southern States in R8. The time period between 2001 and 2010 was selected because it roughly corresponded to the collection dates of the land cover and leaf area index input databases, as well as the estimates of drinking-water population served (discussed below). The mean annual discharge, the fraction of mean annual discharge from NFS land, and the fraction of discharge from State and private forest land were computed for each HUC12 in the southern region. The model was executed considering the combined contribution to water supply from all NFS lands in and upstream of the 13 Southern States, and also individually for each of the 33 National Forests, 2 National Grasslands, and the Land Between the Lakes National Recreation Area managed by the Forest Service R8.

Drinking Water Intakes and Population Served

We used the U.S. Environmental Protection Agency's (EPA) Safe Drinking Water Information System (SDWIS) database (EPA 2012) to identify locations, communities, and population served by surface water across the South. The SDWIS contains basic information on water systems such as their name, location, number of people served, type of system (residential or other), and characteristics of their source water. The SDWIS identifies approximately 156,000 public water systems serving greater than or equal to 25 persons and having greater than or equal to 15 service connections for surface and groundwater. Self-supplied groundwater wells—such as those serving single-family homes—are not included in the database; thus, our estimates of the population served by forested lands are underestimated as these wells are likely getting some water originating on forested lands. For this analysis, we first screened the intakes for those located in the 13 Southern States, then eliminated those with obvious locational errors and intakes where the population served attribute was not populated. Similar to Weidner and Todd (2011), we selected intakes that are served by surface water sources by identifying those whose source was denoted as "surface water" and "groundwater under the influence of surface water." No intakes in the SDWIS whose source was identified as strictly "groundwater" were included in our analysis because we could not be certain of the origin (i.e., forested land vs. nonforested land) of groundwater supplies for any given well at this large scale. Depending on local factors such as well depth, elevation gradients, and aquifer characteristics, groundwater may originate from the same location at which it is withdrawn, or it may have originated some distance away. By not including groundwater wells, our estimates of the population served by forested lands are underestimated as these wells are likely getting some water originating on forested lands. In the SDWIS, the population served is attributed to the water system, and there may be multiple intakes with different locations in that water system. In such cases we assumed that the total population served by the water system was divided equally among the intakes in that system. As a result, some intakes were estimated to serve less than the 25-person minimum public water system threshold in the SDWIS database. We made no attempt to correct errors in locational and population data in the SDWIS database using locally collected data because it was not practical to do so at this large scale. The final database used in this analysis included 6,724 surface water intakes in the South (fig. 2) serving a total population of 50.3 million people, which is 48 percent of the nearly 105 million people living in the region (U.S. Census Bureau 2010).

DRAFT

Linking Water from Forested Lands to Drinking Water Intakes

Like other semi-distributed hydrologic models, WaSSI predicts discharge at the outlet of each modeling unit (e.g., HUC12 watersheds) in the river network and cannot resolve the amount of water provided by forested land for specific locations within each modeling unit. We assumed that the proportion of water from forested lands at the outlet of the HUC12 watershed in which each intake was located was representative of that for the actual intake location. To improve this estimate for individual intake locations, smaller delineated watersheds would be required, which would be impractical for applying at the regional scale. No attempt was made to eliminate intakes possibly located on drainages within HUC12s with percentage of water supply from NFS lands that were not reflective of the HUC12 outlet. In some cases, intakes were located in coves off the main stem of water supply reservoirs; thus, the proportion of water from forested lands on the reservoir main stem was more representative than that of the inundated tributary in which the intake was located. We assumed that these intakes were receiving source water with the same proportion of water from forested land as that of the first HUC12 watershed downstream and on the main stem of the water supply reservoir.

Results

Water Supply from Forested Lands

Water supply is the sum of the water yield generated in all HUC12s upstream of a given location on the river network. The HUC watershed river network was apparent in the spatial variability of predicted 2001–2010 mean annual surface water supply (fig. 4), reflecting the influence of both climate regime and upstream drainage area. The mean annual surface water supply ranged from near zero in HUCs in arid west Texas to more than 750 billion m^3/year at the mouth of the Mississippi River. Water yield is greatest in areas with high precipitation and low evapotranspiration (e.g., mountainous areas and/or at northern latitudes), and it is lowest in areas with low precipitation and high evapotranspiration (e.g., arid west Texas). For example, HUC 060102030101 in the Southern Appalachian Mountains of western North Carolina received 1996 mm of precipitation per year on average with 1157 mm (58 percent) predicted to exit the watershed as water yield. Meanwhile, HUC 120800041007 in arid west Texas received 391 mm of precipitation per year with only 7.8 mm (2.0 percent) leaving the watershed as water yield and 98 percent lost as evapotranspiration. Even with the same amount of annual precipitation, water yield varies across the South due to differences in evapotranspiration driven by differences in evaporative energy. For example, HUC 031401060203 along the Gulf Coast in southern

Water yield is greatest in areas with high precipitation and low evapotranspiration, and it is lowest in areas with low precipitation and high evapotranspiration.

DRAFT

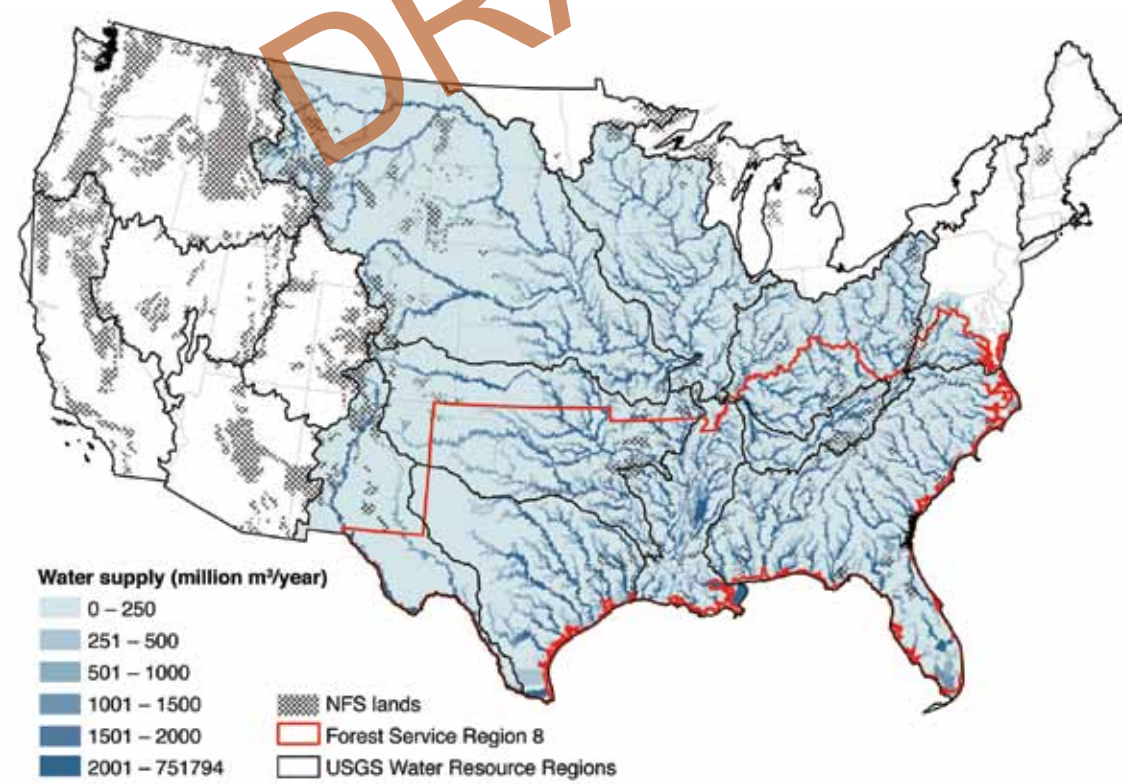


Figure 4—Predicted 2001–2010 mean annual water supply in millions of cubic meters per year by 12-digit (sixth level) hydrologic unit code (HUC) watershed for those watersheds supplying water to the South. HUCs are colored by the magnitude of available water supply at the HUC outlet.

Alabama (66 percent forested) received 1683 mm of precipitation per year with 633 mm (38 percent) leaving the watershed as water yield, while HUC 060102020103 in western North Carolina (88 percent forested) received similar precipitation (1688 mm) with 859 mm (51 percent) leaving the watershed as water yield. Although forests generally have higher rates of evapotranspiration than other land cover types, water yield from forest lands is generally higher because they occur in areas with sufficient precipitation to support their growth. Across the land area in and upstream of the 13 Southern States, the HUC12s with more than 50 percent forest cover (n=10,724 HUC12s) had 43 percent higher mean annual precipitation, 28 percent higher evapotranspiration, and 78 percent higher water yield than those HUC12s with less than 50 percent forest cover (n=39,751 HUC12s).

Water supply originating on both NFS and State and private forest lands makes significant and disproportionate contributions to total water supply across the South (table 2. fig. 5). NFS lands in the 13 Southern States of Forest Service R8 make up 2.6 percent of the total land area but contribute 3.4 percent (30 billion m^3/year) of the 900 billion m^3/year total available water supply generated in the region. State and private forests make up 27.1 percent of the total land area in the 13 Southern States and account for 32.4 percent (292 billion m^3/year) of the total water supply. Contributions of forested lands to the total water supply are similar when considering R8 and areas upstream (table 2). State and private forest lands provide more than 50 percent of the water supply for a significant portion of the South, including the highly populated metropolitan areas in the Piedmont region extending across the States of Virginia, North Carolina, South Carolina, Georgia, and Alabama (fig. 5B). Although the percentage of total annual water supply originating on NFS lands may be low (3.4 percent) for the region as a whole, the role NFS lands play in providing water supply is much more significant locally for those areas in and immediately downstream of NFS lands, as indicated by the localized orange, purple, and red areas in figure 5A.

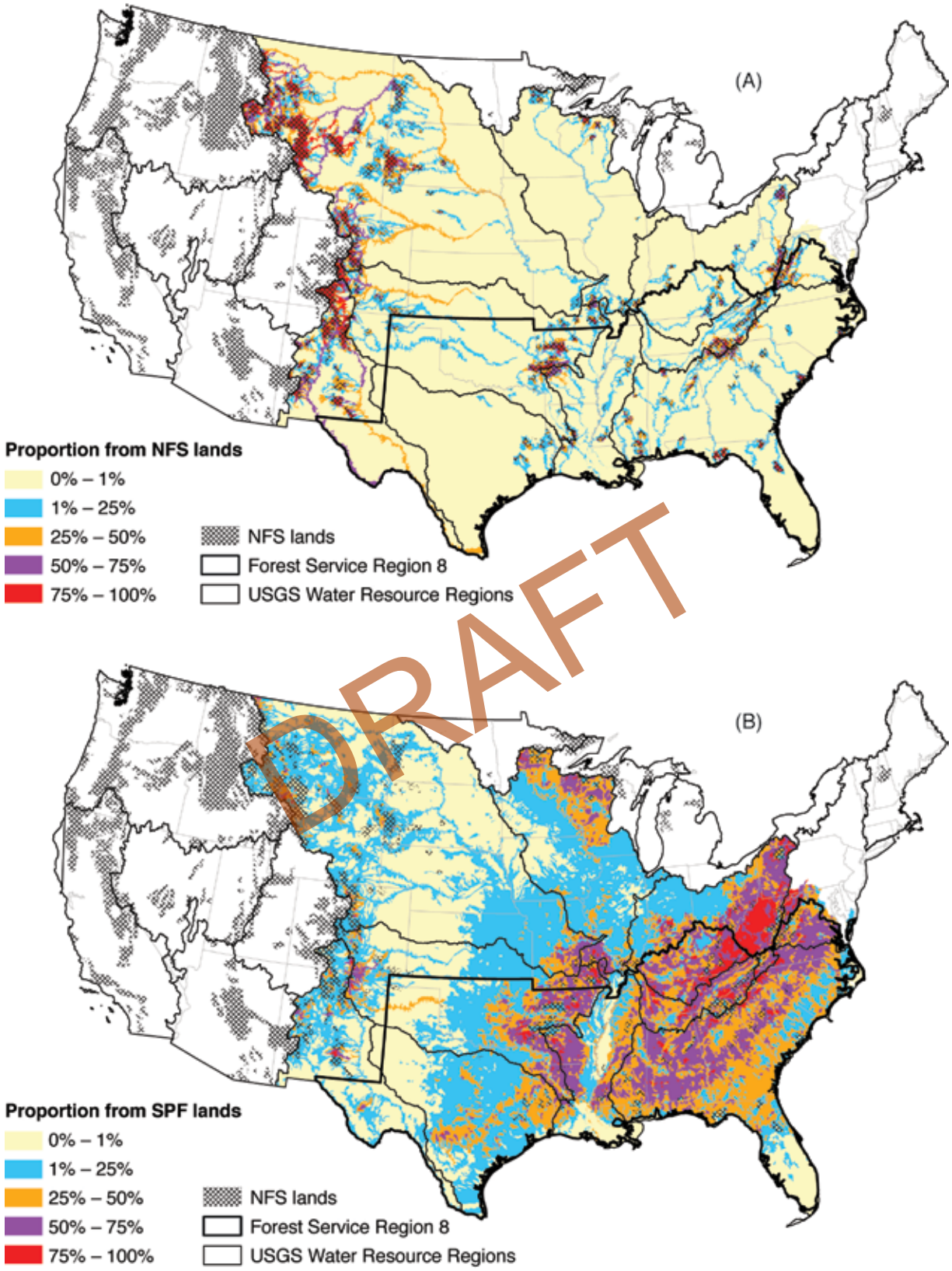
DRAFT

NFS lands in the South contributed 30 billion m^3/year to the total available surface water supply, and State and private forest lands contributed 292 billion m^3/year.

Table 2—Summary of water supply from forested lands serving drinking water intakes in the South

	Region	
	The 13 Southern States of USFS R8	Land area in and upstream of the 13 Southern States
Total land area (million km^2)	2.5	4.9
Percentage of total land area in NFS land (%)	2.6	4.0
Percentage of total land area in State and private forest land (%)	27.1	20.0
Mean total annual water supply (billion m^3/year)	904 (56.7)[a]	1374 (63.3)[a]
Mean percentage of total annual water supply originating on National Forest System land (%)	3.4 (0.1)[a]	4.1 (0.1)[a]
Mean percentage of total annual water supply originating on State and private forest land (%)	32.4 (0.6)[a]	29.3 (0.8)[a]

[a] Numbers in parentheses are the standard error for the mean values across the 10-year model simulation.

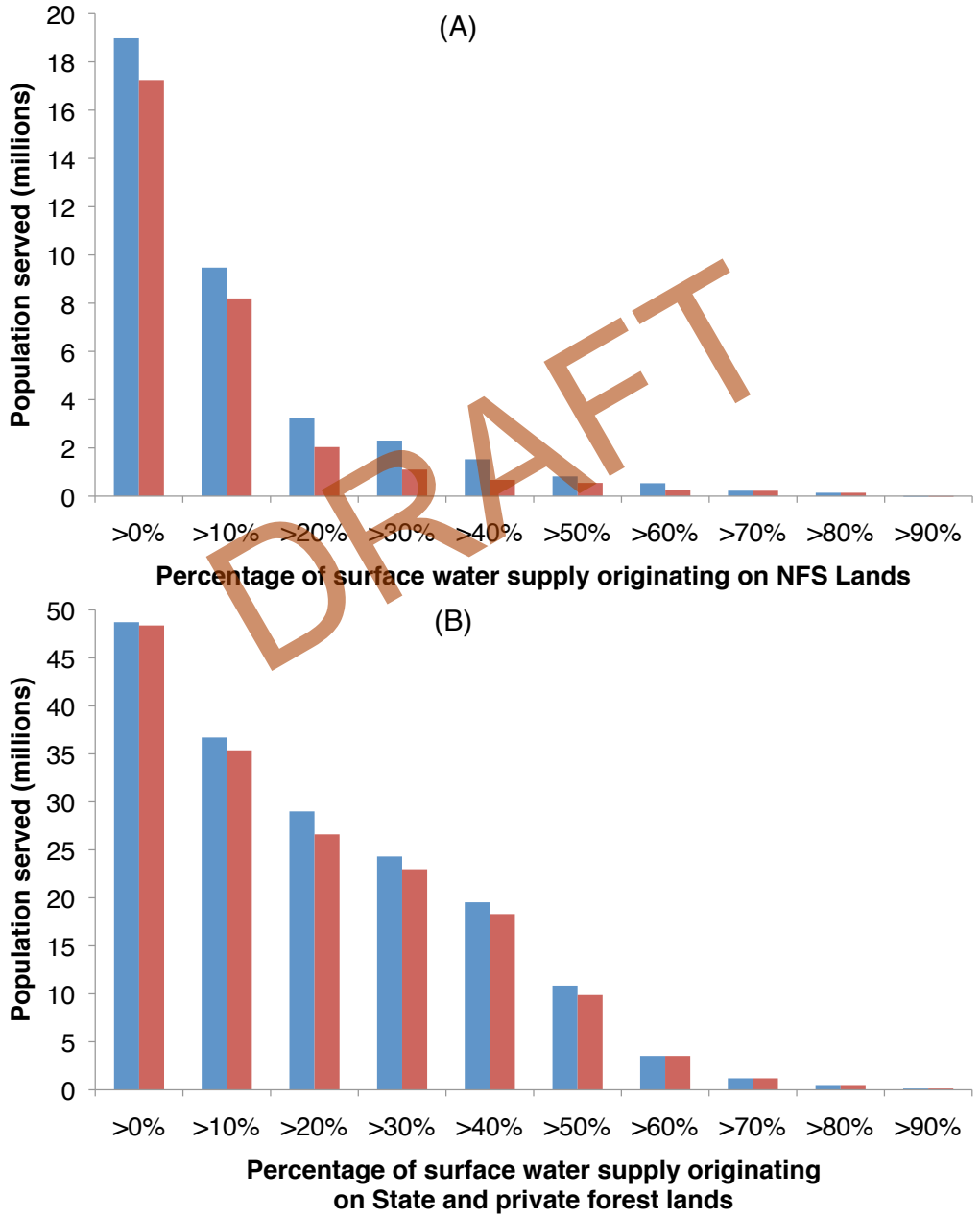


DRAFT

Figure 5—Proportion of the total 2001–2010 mean annual water supply originating on (A) National Forest System (NFS) lands and (B) State and private forest lands by hydrologic unit code (HUC) watershed. Water supply is the total amount of surface water available at the outlet of each HUC watershed, including flow accumulated from HUCs upstream. The 12-digit (sixth level) HUC watersheds are colored according to the fraction of total water supply at the watershed outlet that originated on NFS or State and private forest lands.

Population and Communities Served by Water from Forested Lands

The population in the South is served by water from forests to different extents depending on the size of the communities and their proximity to forested lands (fig. 6). The contribution of NFS lands and State and private forest lands in providing surface drinking water supply was evaluated over two extents. First, we considered the contribution of all NFS lands and State and private forest lands both in and upstream of the 13 Southern States. Second, we considered the contribution of only the NFS lands and State and private forest lands in the 13 Southern States. The results of both extents are discussed on the following pages.



DRAFT

Figure 6—Population served by different proportions of water originating on (A) National Forest System (NFS) lands and (B) State and private forest lands. Blue bars are the population served by water originating on all State and private forest lands and NFS lands in and upstream of the 13 Southern States of the USFS Region 8; red bars are the population served by water originating on State and private forest and NFS lands in the 13 Southern States only.

Water from all forested lands in and upstream of the 13 Southern States—The NFS lands in and upstream of the 13 Southern States provided some drinking water supply (more than 0 percent of the total supply) for 19.0 million people in the South, representing 38 percent of the 50.3 million total population served by surface water in the region (fig. 6A). Similarly, 48.7 million people received some amount of their drinking water supply from State and private forest lands (fig. 6B). Approximately 3.2 million people in the South receive more than 20 percent of their drinking water from NFS lands in and upstream of the 13 Southern States. Of the 6,724 surface water intakes in the South, 1,541 intakes serve the 19.0 million receiving some portion of their source water from NFS lands, while 427 intakes serving 3.2 million receive more than 20 percent of source water from NFS lands in and upstream of the 13 Southern States. For State and private forest lands, 6,188 intakes serve 48.7 million receiving some portion of their source water from State and private forest lands in and upstream of the 13 Southern States. Those intakes receiving significant contributions by NFS land to their total water supply are generally located immediately downstream of NFS lands (fig. 7). Some surface water intakes serving large populations and receiving more than 20 percent of their water supply from NFS lands include the following: 3 of 3 intakes serving Lynchburg, VA with 76,000 people served; 2 of 2 intakes serving Johnson City, TN with 96,000 people served; 2 of 3 intakes serving Little Rock, AR with 209,000 people served; 1 of 4 intakes serving Birmingham, AL with 148,000 people served; and 1 intake serving Hickory, NC with 56,000 people served (fig. 7).

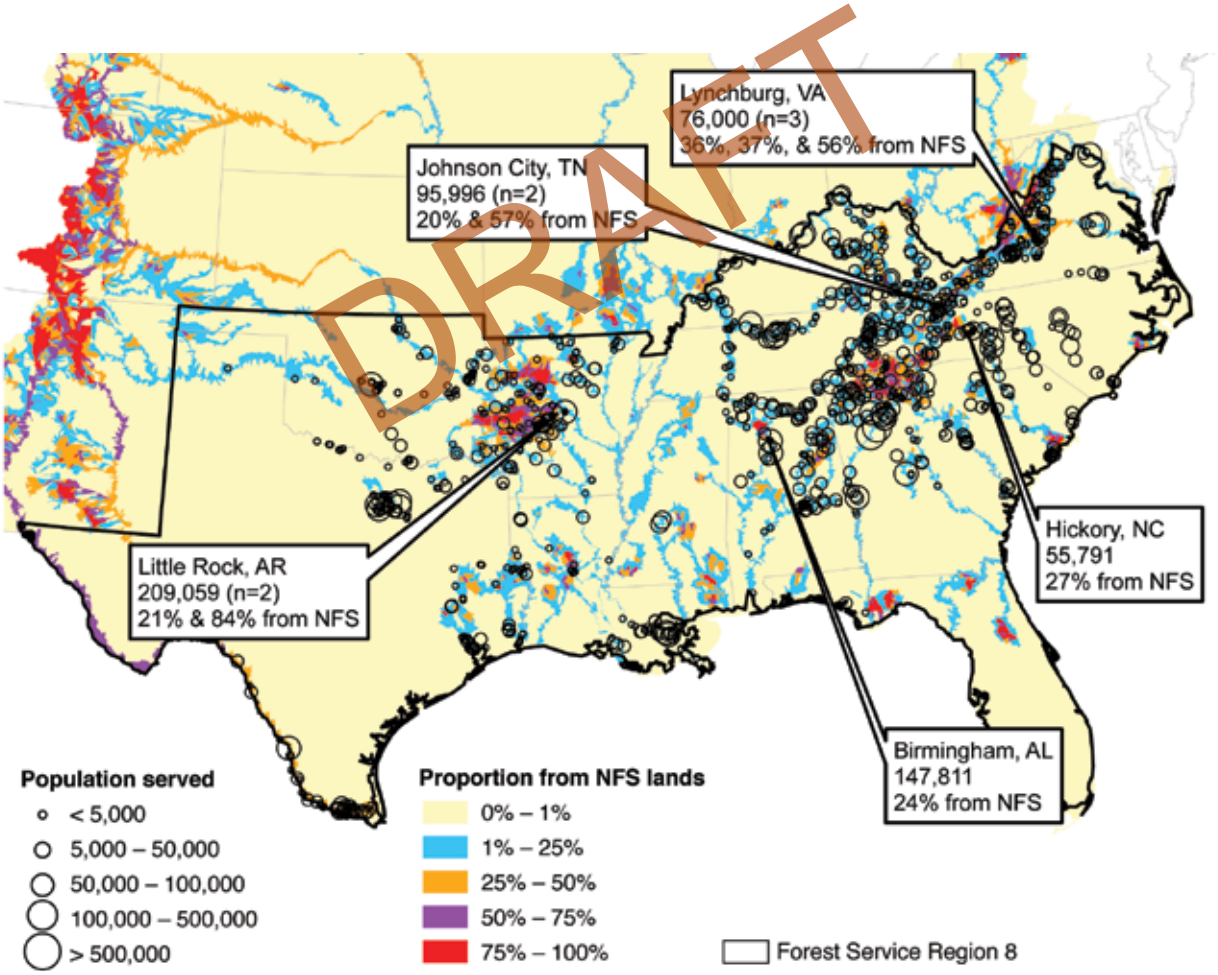


Figure 7—Intakes (black circles) located in hydrologic unit code (HUC12) watersheds (colored areas) where some amount of source water originated on National Forest System (NFS) lands, including those NFS lands outside of Forest Service Region 8. Some surface water intakes serving large populations and receiving more than 20 percent of their water supply from NFS lands are noted on the map.

Water from forested lands in the 13 Southern States only—The NFS lands in the 13 Southern States provided some drinking water supply (more than 0 percent of the total supply) for 17.3 million people in the South, representing 34 percent of the 50.3 million total population served by surface water in the region (fig. 6A). Similarly, 48.4 million people received some amount of their drinking water supply from State and private forest lands (fig. 6B). Approximately 2.0 million people in the South receive more than 20 percent of their drinking water from NFS lands located within the 13 Southern States. Of the 6,724 surface water intakes in the South, 1,325 intakes serve the 17.3 million receiving some portion of their source water from NFS lands, while 294 intakes serving 2.0 million receive more than 20 percent of source water from NFS lands. For State and private forest lands, 6,060 intakes serve 48.4 million people receiving some portion of their source water from State and private forest lands in the 13 Southern States.

In addition to evaluating the contribution of water supply from all NFS lands collectively, we evaluated the individual contribution for each of the 33 National Forests, 2 National Grasslands, and the Land Between the Lakes National Recreation Area managed by the Forest Service R8 in the 13 Southern States. To accomplish this objective we created unique model input databases, performed the water supply simulation with WaSSI, and linked the water supply outputs to the EPA SDWIS database of intakes to estimate the population and communities served by each individual NFS unit. Results of the analyses for each National Forest, Grassland, and Recreation Area are provided in the appendix. In a case study presented here, we highlight one of the National Forests—the Chattahoochee National Forest—which plays a major role in providing water supply to the city of Atlanta, GA and surrounding communities (see the text box on the following three pages).

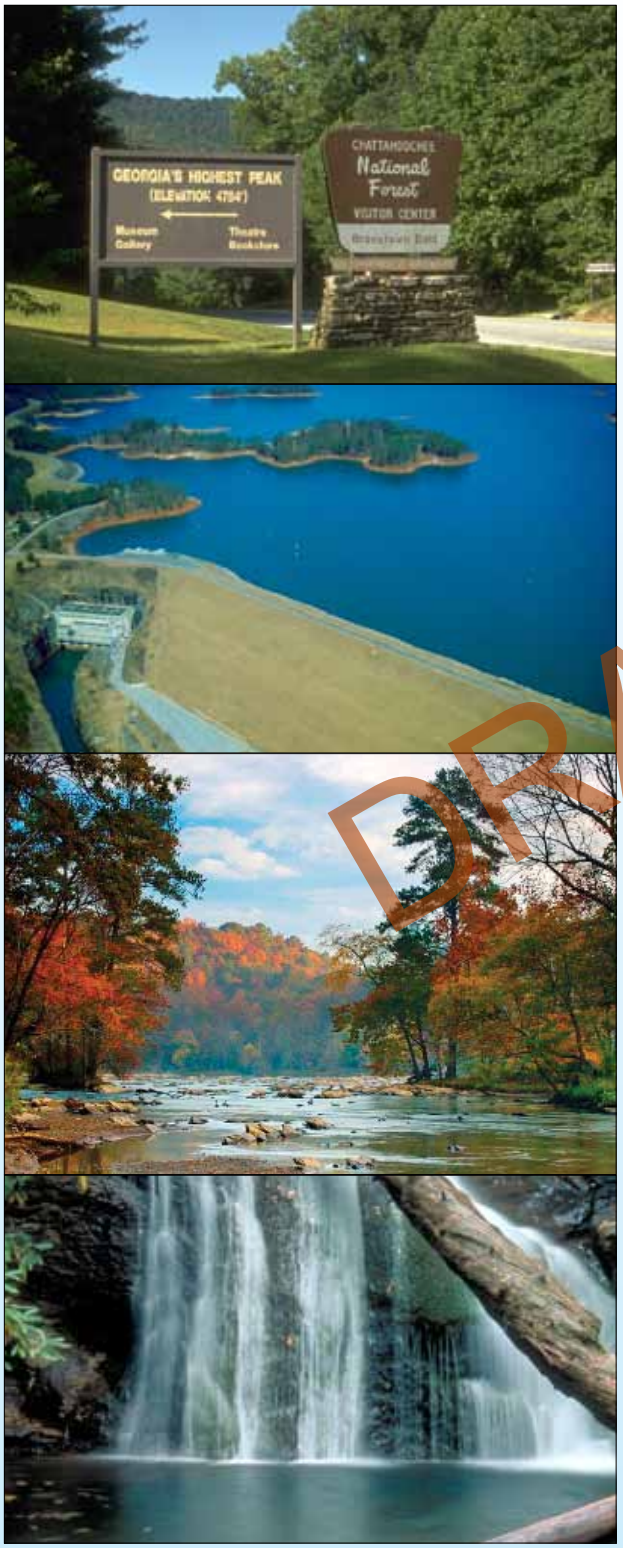
Approximately 3.2 million people in the South receive more than 20 percent of their drinking water from NFS lands in and upstream of the 13 Southern States.

Approximately 2.0 million people in the South receive more than 20 percent of their drinking water from NFS lands in the 13 Southern States only.

DRAFT

LEFT TO RIGHT: Forest river scene (Chris Evans, Illinois Wildlife Action Plan); kids playing in the forest; and forest scene (both USDA Forest Service, Bugwood.org)

CASE STUDY: Chattahoochee National Forest



TOP TO BOTTOM: Chattahoochee National Forest signage for Brasstown Bald entry (USDA Forest Service, Bugwood.org); Buford Dam and Lake Lanier (U.S. Army Corps of Engineers); view of colorful foliage along the Chattahoochee River in autumn (National Park Service); Blue Hole Falls in the Chattahoochee National Forest (USDA Forest Service, Bugwood.org).

The Chattahoochee National Forest encompasses approximately 1.47 million acres in the Southern Appalachian Mountains of northern Georgia. The Chattahoochee National Forest serves as the headwaters of several major rivers in the east including the Tennessee, Coosa, Savannah, and Chattahoochee Rivers. Water from the Chattahoochee National Forest makes its way north to communities in North Carolina and Tennessee, southwest to Georgia and Alabama, and southeast to South Carolina (fig. 8). A small percentage of water from Chattahoochee National Forest mixes with water from several other NFS lands and serves intakes located on the Mississippi River in southern Louisiana. While it might be a small percentage of the total volume of water that flows down the Mississippi, NFS lands still provide millions of gallons of surface water supply to these communities each year. We estimate that 283 intakes in 168 public water supply systems receive some water from the Chattahoochee National Forest and serve approximately 6.1 million people. Of the 283 intakes, 33 intakes in 20 water systems receive 10–20 percent of their source water from the forest and serve a total population of 2.56 million. Over 20,000 people receive more than 50 percent of their water from the Chattahoochee National Forest, mainly from public water system intakes located in close proximity to the forest.

The Buford Dam impounds the Chattahoochee River to form Lake Lanier downstream of the Chattahoochee National Forest. The dam is managed by the U.S. Army Corps of Engineers for water supply, hydropower, flood control, and recreation (fig. 9). The reservoir provides water for the greater Atlanta area: 377 million gallons per day for approximately 3.5 million people. Communities served by water in Lake Lanier or regulated by the Buford Dam include Gwinnett County (serving 750,000 people, with 17 percent of water from the Chattahoochee National Forest), DeKalb County (serving 670,000 people, 14 percent from Chattahoochee National Forest), and Atlanta (serving 650,000 people, with 11 percent from Chattahoochee National Forest).

DRAFT

CASE STUDY: Chattahoochee National Forest

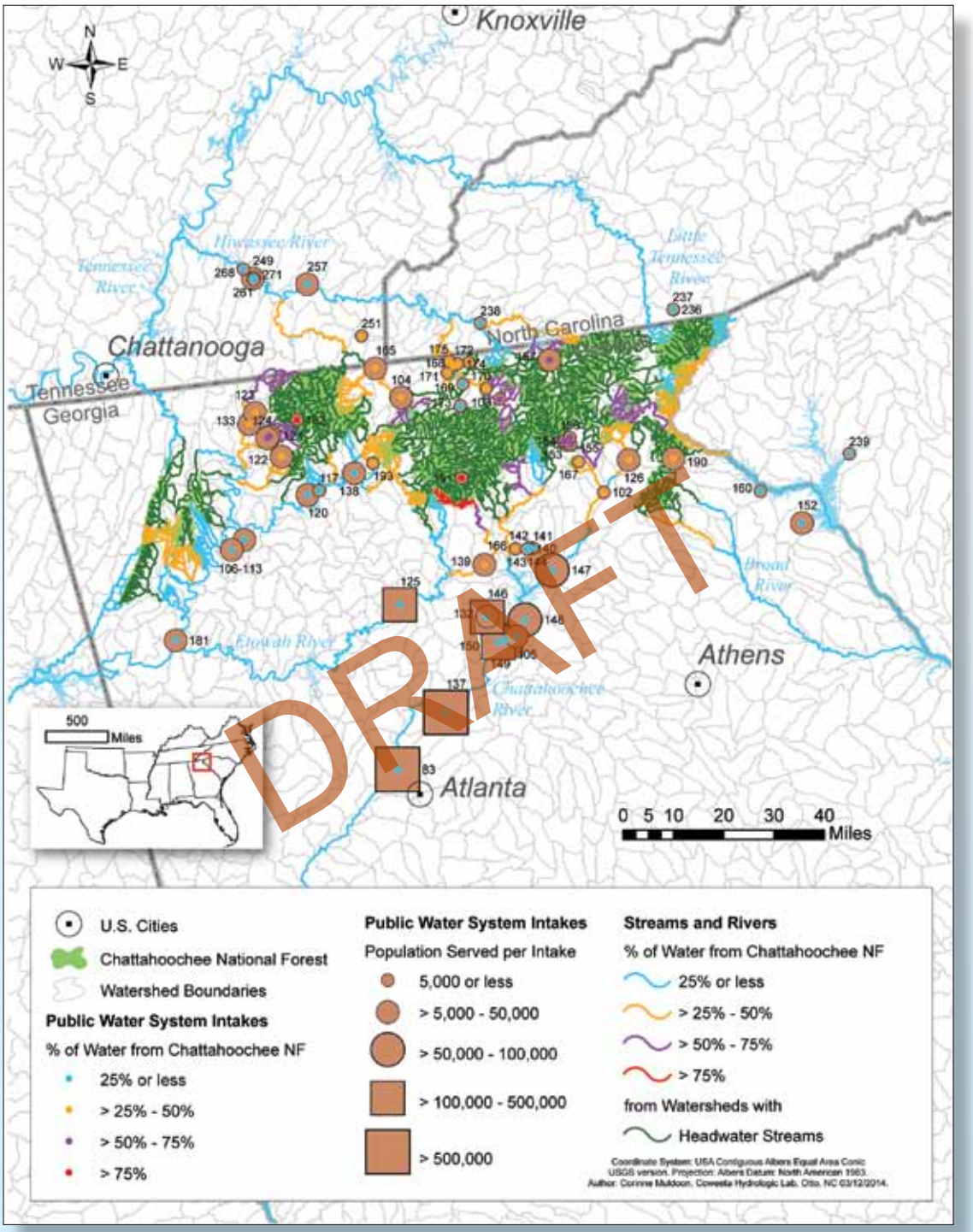


Figure 8—Intakes served by Chattahoochee National Forest. The proportion of water from Chattahoochee National Forest for streams in and immediately downstream of the National Forest (headwater streams in green) could not be determined because these streams drain catchments much smaller than the HUC12 scale of our modeling approach. Streams further downstream of the National Forest are colored according to the percentage of the total streamflow that originated in Chattahoochee National Forest. Intakes are sized according to the population they serve, and the center of the intake points are colored by the percentage of the total available water supply at that intake that originated in Chattahoochee National Forest. Only intakes with more than 10 percent of their total available surface water supply originating in the National Forest are shown. Some intakes may not be visible because they overlap with other nearby intakes. Numbers adjacent to intakes are identifiers linked to intake ID in summary tables in the appendix.

CASE STUDY: Chattahoochee National Forest

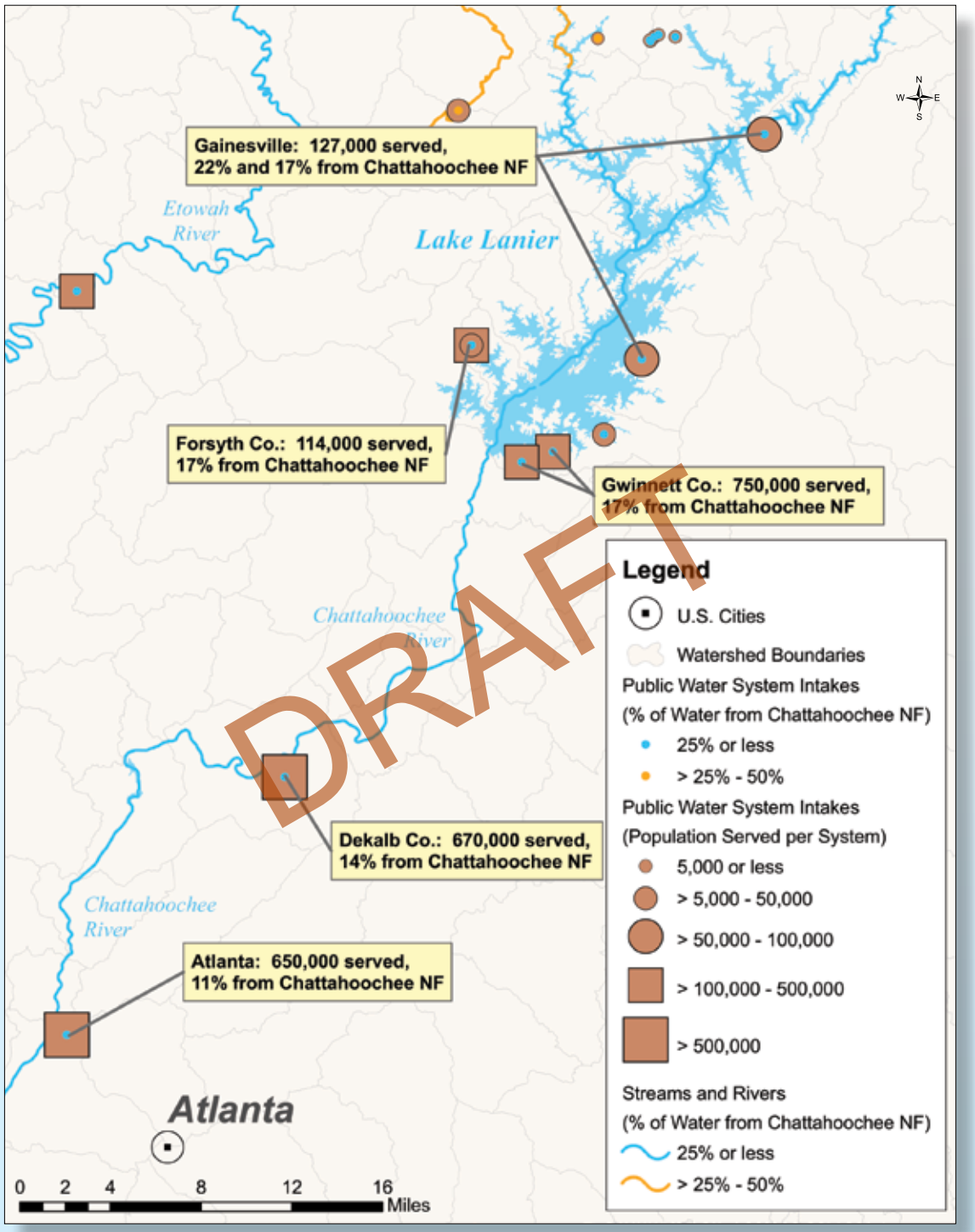


Figure 9—Intakes serving the greater Atlanta, GA, area with water from the Chattahoochee National Forest and regulated by the Buford Dam at Lake Lanier.

Discussion

Our results provide a snapshot of the current role that NFS lands and State and private forest lands play in providing surface water supply in the 13 Southern States. These results are based on the latest estimates of land cover distribution and locations of and populations served by existing drinking water intakes. Clearly, both NFS lands and State and private forest lands are an important part of the water supply system for many large population centers in the South. While the contribution of water from NFS lands to the region as a whole was small, NFS lands are important sources of water for many individual communities including several large population centers. State and private forest lands, due to their extent and prevalence in the region, are particularly critical for surface water supply generation. Across the Piedmont region, State and private forest lands provide a significant proportion of the total surface water supply to drinking water intakes for many of the largest population centers in the South, including Raleigh-Durham, Charlotte, Atlanta, Greenville, and Birmingham. Unfortunately, State and private forest lands may be most vulnerable as development pressures from expanding populations may lead to conversion of more State and private forest lands from forest cover to urban land uses. The Weeks Act of 1911 allowed for the establishment of some of the first National Forests in the Eastern United States through the purchase of degraded lands in the interest of restoring watershed functions. Much of the eastern forested land was already settled by this time; thus, eastern National Forests are smaller and less contiguous than in the West and have large inholdings of State and private forest lands. The continued expansion of partnerships and shared responsibility between public and private landowners—especially in the eastern National Forests where there are many private inholdings—will be essential for the sustainability of current and future water quality and quantity.

Both NFS lands and State and forest private lands are an important part of the water supply system for many large population centers in the South.

Future climate and land cover change will impact the role that forests play in providing surface water supply to residents of the South. Recent projections suggest that the population in the 13 Southern States may increase by 36.2–67.9 million by 2060 (34–65 percent from 2010 levels), with a corresponding increase in impervious cover of 6,845–12,055 km^2 (17.0–29.9 percent from 2010 levels) (EPA 2009). Increases in population will mean that forests will become even more important to a greater number of people who are served by existing drinking water intakes. "Rural flight"—the movement of people from rural areas (mostly with self-supplied groundwater wells) to cities (with municipal surface water intakes)—will also mean a larger number of people will be dependent on surface water originating on forested lands. However, the land conversion from forest to urban uses associated with population growth will reduce the proportion of water supply originating on forested lands simply because there will be less forested land; thus, a larger proportion of the total water supply will originate on other land cover types (i.e., developed land). In addition, water yield from developed lands is generally greater than that of the forest land cover they replace due to the higher evapotranspiration rates of forests (Piao and others 2007, Sun and others 2011a) and increased direct runoff from impervious surfaces on developed land (Caldwell and others 2012, Lull and Sopper 1969, O'Driscoll and others 2010). Climate change has the potential to stress forest and other ecosystems (Allen and others 2010, Sun and others 2008, Wear and Greis 2012), threaten the sustainability of water supplies (Alcamo and others 2003, Vörösmarty and others 2000, Vörösmarty and others 2010), and increase water demand for irrigation (McDonald and Girvetz 2013). Global change impacts on water supply will have both additive and canceling interactions, with land use change impacts depending on the relative magnitude of change among global change drivers (Caldwell and others 2012).

DRAFT

Conversion of forest land to urban uses may increase water yield and surface water supply, but this increase in quantity will have costly tradeoffs. Urbanization degrades water quality by increasing nutrient, sediment, and bacteria concentrations; it also changes the flow regime to include higher peak flows and higher streamflow velocities that lead to streambank failure, bed scouring, channel incision, and a loss of connectivity with the floodplain (Lockaby and others 2011, Paul and Meyer 2001, Wheater and Evans 2009). These factors will increase drinking water treatment costs (Elias and others 2013), increase the frequency and severity of flood events (Lull and Sopper 1969, O'Driscoll and others 2010), and degrade aquatic ecosystems (Lockaby and others 2011, Poff and others 2006). For example, Elias and others (2013) analyzed a 267-km^2 forested water supply watershed in Alabama; they projected that increases in urban land cover from 3–22 percent by 2020 will increase water treatment costs by \$91–\$95 per km^2 per day, and monthly flows will increase 15 percent on average, with surface runoff increasing from 7 percent of total flow under baseline conditions to 36 percent of total flow after urbanization. Clearly any gains in water quantity through urbanization will be more than offset by water quality and flood hazard issues. Maintaining forest land cover can be a cost-effective means of protecting water quality and regulating the flow regime for human consumption, flood control, and maintaining aquatic ecosystem health.

Maintaining forest land cover is a cost-effective means of protecting water quality and regulating the flow regime for human consumption, flood control, and maintaining aquatic ecosystem health.

DRAFT

Summary and Conclusions

Forests and water are inextricably linked, and people are dependent on forested lands to provide clean, reliable water supplies for drinking water and to support local economies. In this analysis, we used a hydrologic model and a database of surface water intakes to quantify the extent to which people depend on water from forested lands in the South. We estimated that NFS lands and State and private forest lands in the 13 Southern States contribute 3.4 percent and 32.4 percent, respectively, of the approximately 900 million m^3/year of total surface drinking water supply in the region. Of the 6,724 public surface water intakes in the South, 1,541 intakes serving 19.0 million people receive some water from all NFS lands in and upstream of the 13 Southern States. Of the 1,541 intakes, 427 received more than 20 percent of their water from NFS lands and served 3.2 million people. Similarly, 6,188 intakes serving 48.7 million people receive some water from State and private forest lands; of the 6,188 intakes, 3,143 received more than 20 percent of their water from State and private forest lands and served 29.0 million people. While the contribution of water from NFS lands to the region as a whole was small, NFS lands were important sources of water for many individual communities including several large population centers.

This analysis focused strictly on surface drinking water supplies. However, NFS lands and State and private forest lands make similar contributions to water supply for other water-use sectors including agriculture, industrial, thermoelectric power generation, and others. Results of our work highlight the need for conservation and management of southern forests to ensure clean and dependable water supplies in downstream communities. Across the United States and especially in the South, environmental and economic factors are likely to interact and cause changes in water availability and quality, but forest conservation and proper management can help mitigate these effects.

Acknowledgments

This study was supported by the U.S. Department of Agriculture Forest Service, Southern Region; the U.S. Department of Agriculture Forest Service, Southern Research Station, and by agreement number 12-CS-11330140-128 to P. Bolstad at the University of Minnesota. We are grateful to Claudia Cotton, Daniel Boone National Forest, for her constructive comments on the manuscript.

References

Alcamo, J.; Doll, P.; Henrichs, T. [and others]. 2003. Global estimates of water withdrawals and availability under current and future "business-as-usual" conditions. Hydrological Sciences Journal-Journal Des Sciences Hydrologiques. 48: 339-348.

Allen, C.D.; Macalady, A.K.; Chenchouni, H.D. [and others]. 2010. A global overview of drought and heat-induced tree mortality reveals emerging climate change risks for forests. Forest Ecology and Management. 259:660-684.

Anderson, H.W.; Hoover, M.D.; Reinhart, K.G. 1976. Forests and water effects of forest management on floods, sedimentation, and water supply. Gen. Tech. Rep. PSW-18. Berkeley, CA: U.S. Department of Agriculture Forest Service, Pacific Southwest Forest and Range Experiment Station. 115 p.

Averyt, K.; Fisher, J.; Huber-Lee, A. [and others]. 2011. Freshwater use by U.S. power plants: electricity's thirst for a precious resource, a report of the Energy and Water in a Warming World initiative. 62 p. Unpublished report. On file with: Union of Concerned Scientists, 2 Brattle Square, Cambridge, MA 02138-3780.

Averyt, K.; Meldrum, J.; Caldwell, P. [and others]. 2013. Sectoral contributions to surface water stress in the coterminous United States. Environmental Research Letters. 8 035046 doi:10.1088/1748-9326/8/3/035046.

Brown, T.C.; Hobbins, M.T.; Ramirez, J.A. 2008. Spatial distribution of water supply in the coterminous United States. Journal of the American Water Resources Association. 44: 1474-1487.

Burnash, R.J. 1995. The NWS river forecast system—catchment modeling. In Singh, V.P., ed. Computer models of watershed hydrology. Littleton, CO: Water Resources Publications: 311-366.

Burnash, R.J.; Ferral, R.L.; McGuire, R.A. 1973. A generalized streamflow simulation system: conceptual modeling for digital computers. Sacramento, CA: U.S. Department of Commerce, National Weather Service, and State of California, Department of Water Resources. 204 p.

Caldwell, P.; Sun, G.; McNulty, S. [and others]. 2011. Modeling impacts of environmental change on ecosystem services across the conterminous United States. In Medley, C.N.; Patterson, G.; Parker, M.J., eds. Observing, Studying, and Managing for Change—Proceedings of the Fourth Interagency Conference on Research in the Watersheds: U.S. Geological Survey Scientific Investigations Report 2011: 5169. 202 p.

Caldwell, P.; Sun, G.; McNulty, S. [and others]. 2012. Impacts of impervious cover, water withdrawals, and climate change on river flows in the conterminous U.S. Hydrology and Earth System Sciences. 16: 2839-2857.

Dudley, N.; Stolton, S. 2003. Running pure: the importance of forest protected areas to drinking water. Washington, DC: World Bank/WWF Alliance for Forest Conservation and Sustainable Use. 112 p.

Elias, E.; Laband, D.; Dougherty, M. 2013. Estimating the public water supply protection value of forests. Journal of Contemporary Water Research & Education. 152: 11.

Hamon, W.R. 1963. Computation of direct runoff amounts from storm rainfall. International Association of Scientific Hydrology. 63: 52-62.

Jackson, C.R.; Sun, G.; Amatya, D. [and others]. 2004. Fifty years of forest hydrology in the Southeast. In Ice, G.G.; Stednick, J.D., eds. A Century of Forested and Wildland Watershed Lessons. Bethesda, MD: The Society of American Foresters: 33-112.

Koren, V.; Smith, M.; Duan, Q. 2003. Use of a priori parameter estimates in the derivation of spatially consistent parameter sets of rainfall-runoff models. In Duan, Q.; Gupta, H.V.; Sorooshian, S. [and others], eds. Calibration of Watershed Models. Washington, DC: American Geophysical Union: 239–254.

Lockaby, G.; Nagy, C.; Vose, J. [and others]. 2011. Forests and water. In: Wear, D.N.; Greis, J.G., eds. The Southern Forest Futures Project: technical report. Gen. Tech. Rep. SRS-GTR-178. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station: 309-339.

Lull, H.W.; Sopper, W.E. 1969. Hydrologic effects from urbanization of forested watersheds in the northeast. Upper Darby, PA: U.S. Department of Agriculture Forest Service, Northeastern Forest Experiment Station: 31.

Marion, D.A.; Sun, G.; Caldwell, P.V. [and others]. 2013. Managing forest water quantity and quality under climate change. In: Vose, J.M.; Klepzig, K.D., eds. Climate Change Adaptation and Mitigation Management Options: A Guide for Natural Resource Managers in Southern Forest Ecosystems. Boca Raton, FL: CRC Press: 249-305.

McCabe, G.; Wolock, D.M. 1999. General-circulation-model simulations of future snowpack in the Western United States. Journal of the American Water Resources Association. 35(6): 1473-1484.

McDonald, R.I.; Girvetz, E.H. 2013. Two challenges for U.S. irrigation due to climate change: increasing irrigated area in wet states and increasing irrigation rates in dry states. PLoS ONE 8(6): e65589. doi:10.1371/journal.pone.0065589.

O'Driscoll, M.; Clinton, S.; Jefferson, A. [and others]. 2010. Urbanization effects on watershed hydrology and in-stream processes in the Southern United States. Water. 2: 605-648.

Paul, M.J.; Meyer, J.L. 2001. Streams in the urban landscape. Annual Review of Ecology and Systematics. 32: 333-365.

Piao, S.L.; Friedlingstein, P.; Ciais, P. [and others]. 2007. Changes in climate and land use have a larger direct impact than rising CO2 on global river runoff trends. Proceedings of the National Academy of Sciences of the United States of America. 104: 15242-15247.

Poff, N.L.; Bledsoe, B.P.; Cuhaciyan, C.O. 2006. Hydrologic variation with land use across the contiguous United States: geomorphic and ecological consequences for stream ecosystems. Geomorphology. 79: 264-285.

Postel, S.L.; Thompson, B.H.J. 2005. Watershed protection: capturing the benefits of nature's water supply services. Natural Resources Forum. 29: 98-108.

Sedell, J.; Sharpe, M.; Apple, D. [and others]. 2000. Water and the Forest Service. FS-660. Washington, DC: United States Department of Agriculture. 27 p.

DRAFT

Sun, G.; Lockaby, B.G. 2012. Chapter 3: Water quantity and quality at the urban-rural interface. In: Laband, D.N.; Lockaby, B.G.; Zipperer, W., eds. Urban-Rural Interfaces: Linking People and Nature. Madison, WI: American Society of Agronomy, Crop Science Society of America, Soil Science Society of America: 26-45.

Sun, G.; Alstad, K.; Chen, J.Q. [and others]. 2011a. A general predictive model for estimating monthly ecosystem evapotranspiration. Ecohydrology. 4: 245-255.

Sun, G.; Caldwell, P.; Noormets, A. [and others]. 2011b. Upscaling key ecosystem functions across the conterminous United States by a water-centric ecosystem model. Journal of Geophysical Research-Biogeosciences. 116: G00J05.

Sun, G.; Caldwell, P.V.; Georgakakos, A.P. [and others]. 2013. Impacts of climate change and variability on water resources in the Southeastern U.S. Chapter 10 in: Ingram, K.T.; Dow, K.; Carter, L., eds. Southeastern Regional Technical Report to the National Climate Change Assessment, Water Resources. [Place of publication unknown]: Island Press: 204-234.

Sun, G.; McNulty, S.G.; Lu, J. [and others]. 2005. Regional annual water yield from forest lands and its response to potential deforestation across the southeastern United States. Journal of Hydrology. 308: 258-268.

Sun, G.; Riedel, M.; Jackson, R. [and others]. 2004. Book chapter 3: Influences of management of Southern forests on water quantity and quality. In: Rauscher, H.M.; Johnsen, K., eds. Southern Forest Sciences: Past, Current, and Future. Gen. Tech. Rep. SRS-75. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 394 p.

Sun, G.; McNulty, S.G.; Myers, J.A.M.; Cohen, E.C. 2008. Impacts of multiple stresses on water demand and supply across the Southeastern United States. Journal of the American Water Resources Association. 44: 1441-1457.

Tavernia, B.G.; Nelson, M.D.; Caldwell, P.V.; Sun, G. 2013. Water stress projections in the Northeastern and Midwestern United States in 2060: anthropogenic and ecological consequences. Journal of the American Water Resources Association. 49: 15.

U.S. Census Bureau. 2010. United States Census 2010 [online database]. Available at: http://www.census.gov/2010census [Date accessed: March 7, 2013].

U.S. Environmental Protection Agency (EPA). 2009. Land-use scenarios: national-scale housing-density scenarios consistent with climate change storylines. Global Change Research Program, National Center for Environmental Assessment, Washington, DC: EPA/600/R-08/076F. National Technical Information Service, Springfield, VA. 137 p. Available at: http://www.epa.gov/ncea.

U.S. Environmental Protection Agency (EPA). 2012. United States Environmental Protection Agency: Safe Drinking Water Information System [online database]. Washington, DC: Environmental Protection Agency. Available at: http://www.epa.gov/enviro/facts/sdwis/index.html [Date accessed: November 2012].

Vörösmarty, C.J.; Green, P.; Salisbury, J.; Lammers, R.B. 2000. Global water resources: vulnerability from climate change and population growth. Science. 289: 284-288.

Vörösmarty, C.J.; McIntyre, P.B.; Gessner, M.O. [and others]. 2010. Global threats to human water security and river biodiversity. Nature. 467: 555-561.

Wear, D.N.; Greis, J.G. 2012. The Southern Forest Futures Project: summary report. Gen. Tech. Rep. SRS-168. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 54 p.

Weidner, E.; Todd, A. 2011. From the forest to the faucet: drinking water and forests in the U.S. Methods paper. U.S. Department of Agriculture Forest Service. 34 p. Available at: www.fs.fed.us/ecosystemservices/pdf/forests2faucets/F2F_Methods_Final.pdf. [Date accessed: April 15, 2013].

Wheater, H.; Evans, E. 2009. Land use, water management and future flood risk. Land Use Policy. 26: S251-S264.

DRAFT

DRAFT

Appendix

DRAFT

Appendix

CONTENTS

Introduction 25
Angelina National Forest in Texas 26
Apalachicola National Forest in Florida 28
Bienville National Forest in Mississippi 30
Caddo National Grassland in Texas 32
Chattahoochee National Forest in Georgia 34
Cherokee National Forest in Tennessee 42
Conecuh National Forest in Alabama 48
Croatan National Forest in North Carolina 50
Daniel Boone National Forest in Kentucky 52
Davy Crockett National Forest in Texas 56
Delta National Forest in Mississippi 58
De Soto National Forest in Mississippi 60
Francis Marion National Forest in South Carolina 62
George Washington National Forest in Virginia 64
Holly Springs National Forest in Mississippi 68
Homochitto National Forest in Mississippi 70
Jefferson National Forest in Virginia 72
Kisatchie National Forest in Louisiana 82
Land Between the Lakes National Recreation Area in Kentucky and Tennessee 84
Lyndon B. Johnson National Grassland in Texas 86
Nantahala National Forest in North Carolina 88
Ocala National Forest in Florida 94
Oconee National Forest in Georgia 96
Osceola National Forest in Florida 98
Ouachita National Forest in Arkansas and Oklahoma 100
Ozark National Forest in Arkansas 104
Pisgah National Forest in North Carolina 108
Sabine National Forest in Texas 114
Sam Houston National Forest in Texas 116
St. Francis National Forest in Arkansas 118
Sumter National Forest in South Carolina 120
Talladega National Forest in Alabama 122
Tombigbee National Forest in Mississippi 126
Tuskegee National Forest in Alabama 128
Uwharrie National Forest in North Carolina 130
William B. Bankhead National Forest in Alabama 132

DRAFT

Introduction

This appendix provides detailed information regarding intakes and water originating on each of the 33 National Forests, 2 National Grasslands, and the Land Between the Lakes National Recreation Area managed by the Forest Service Region 8 (R8) in the 13 Southern States. The objectives of this analysis were to (1) estimate how much fresh surface water supply in the South originates from National Forest System (NFS) lands and State and private forest lands, and (2) estimate how many people and which communities in the South depend on this fresh surface water supply. To accomplish these objectives, we created unique model input databases for each of the 36 NFS units, performed the water supply simulation with the Water Supply and Stress Index (WaSSI) model, and linked the water supply outputs to the Environmental Protection Agency's Safe Drinking Water Information System (SDWIS) database of intakes. Results for each NFS unit are provided in summary tables and corresponding maps as described below. When reviewing these materials, consider carefully the assumptions and caveats detailed in the Methods section of this paper. The intent of this analysis was to quantify the role that NFS lands play in providing surface water supply to the 6,724 drinking water intakes in the 13 Southern States. This was a large scale for analysis, and as such, it was not practical to review and correct locations, communities, and population served data for all of the drinking water intakes. The population and communities served by water from NFS lands in this analysis should be considered estimates; users are encouraged to verify results with locally collected data where available.

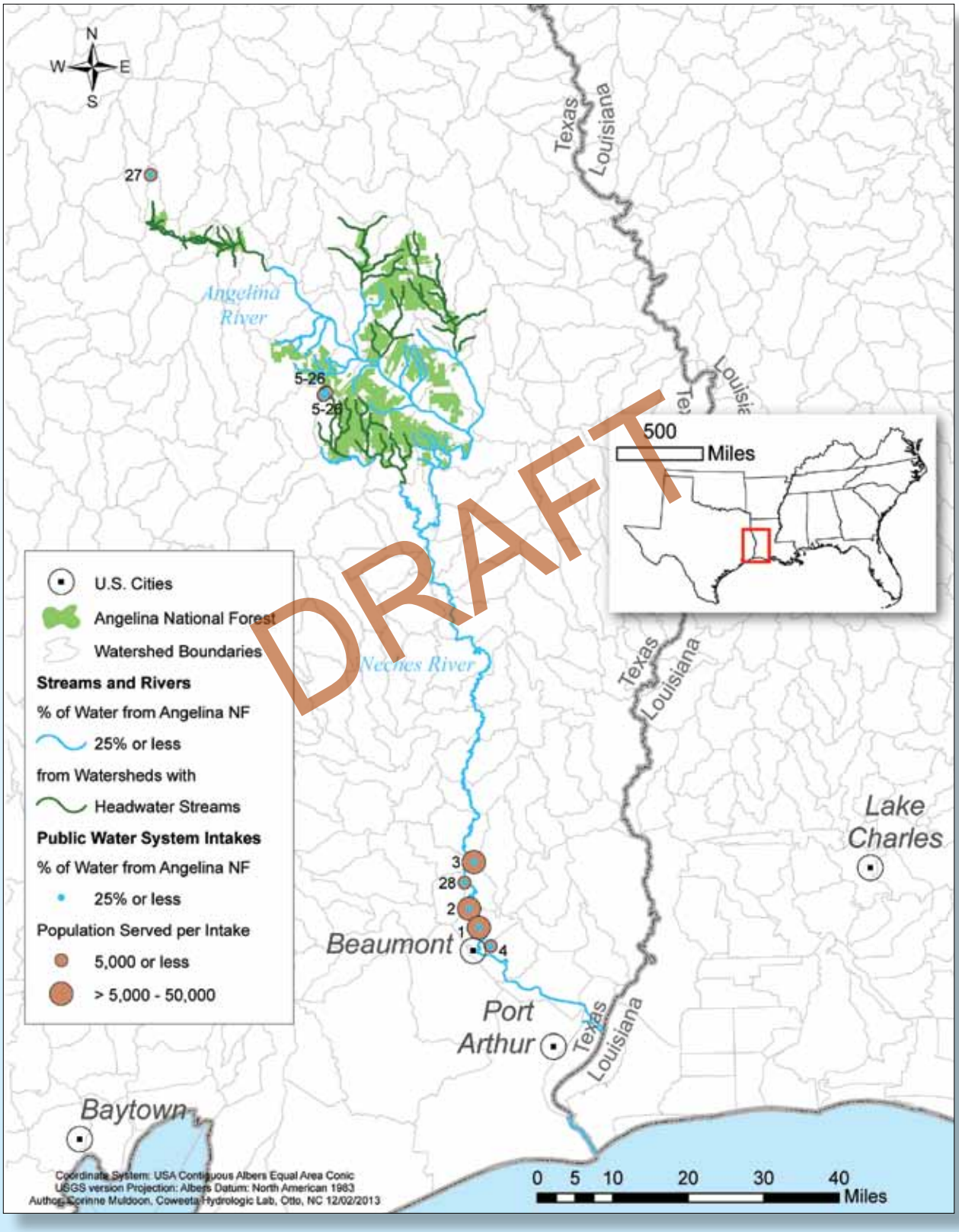
This appendix contains tables of all of the intakes in and downstream of each of the 36 NFS units. The tables include the public water system name, the State in which the intake is located, estimated population served by the intake, predicted total volume of surface water available to the intake, the fraction of the total volume originating on the individual NFS unit, and the fraction of the total volume originating on all NFS lands. In the tables, each intake was assigned an identification number (ID) that can be used to identify the location of the intake on the map for the corresponding NFS unit as described below. Some public water systems had more than one intake. All intakes associated with those public water systems that are located downstream of the NFS land are shown in the table and are assigned an intake number for that public water system.

In addition to the summary tables, this appendix contains maps for each NFS unit showing the NFS unit boundaries; streams in and downstream of the NFS unit; and the approximate location, population served, and proportion of the total water supply that originated on each NFS unit for each intake. Intakes are sized by population served, and the center of the intake points are colored by the percentage of the total available water supply that originated in the NFS unit at that intake. Streams in and downstream of the NFS unit were also colored according to the percentage of water originating on the NFS unit based on the WaSSI model predictions for the HUC12 watershed where the stream segment was located. Many of the stream segments drained catchments much smaller than the HUC12 and could not be assigned an appropriate percentage of water supply from the NFS unit; these streams are denoted "headwater streams" on the maps and are colored green. In some cases, a minimum threshold percentage of water originating on the NFS unit was applied in order to show the NFS unit and downstream intakes at a reasonable scale; if a threshold was used, the percentage (5%, 10%, etc.) is noted in the map title. Numbers adjacent to intakes are identifiers linked to intake ID in the summary table for the NFS unit. Some intakes may not be visible because they overlap with other nearby intakes; in those cases, the intake ID on the map shows the range of intake IDs for that location (e.g., 5-26). Note that some NFS units did not have intakes downstream; these NFS units were mapped, but there is not an accompanying intake summary table.

DRAFT

Angelina National Forest in Texas

Angelina National Forest and the public water system intakes receiving water from Angelina National Forest



Angelina National Forest in Texas

Public water system intakes receiving water from Angelina National Forest

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water		
					Volume available to intake	Percent from Angelina NF only	Percent from all NFS lands[a]
					millions m^3/year		
1	CITY OF BEAUMONT WATER UTILITY DEPT	1 of 3	TX	20833	11267	2.6%	4.6%
2	CITY OF BEAUMONT WATER UTILITY DEPT	2 of 3	TX	20833	10079	2.9%	5.1%
3	CITY OF BEAUMONT WATER UTILITY DEPT	3 of 3	TX	20833	10079	2.9%	5.1%
4	CITY OF ROSE CITY		TX	729	11355	2.6%	4.5%
5	CITY OF ZAVALLA	1 of 22	TX	32	98	2.4%	2.5%
6	CITY OF ZAVALLA	2 of 22	TX	32	98	2.4%	2.5%
7	CITY OF ZAVALLA	3 of 22	TX	32	98	2.4%	2.5%
8	CITY OF ZAVALLA	4 of 22	TX	32	98	2.4%	2.5%
9	CITY OF ZAVALLA	5 of 22	TX	32	98	2.4%	2.5%
10	CITY OF ZAVALLA	6 of 22	TX	32	98	2.4%	2.5%
11	CITY OF ZAVALLA	7 of 22	TX	32	98	2.4%	2.5%
12	CITY OF ZAVALLA	8 of 22	TX	32	98	2.4%	2.5%
13	CITY OF ZAVALLA	9 of 22	TX	32	98	2.4%	2.5%
14	CITY OF ZAVALLA	10 of 22	TX	32	98	2.4%	2.5%
15	CITY OF ZAVALLA	11 of 22	TX	32	98	2.4%	2.5%
16	CITY OF ZAVALLA	12 of 22	TX	32	98	2.4%	2.5%
17	CITY OF ZAVALLA	13 of 22	TX	32	98	2.4%	2.5%
18	CITY OF ZAVALLA	14 of 22	TX	32	98	2.4%	2.5%
19	CITY OF ZAVALLA	15 of 22	TX	32	98	2.4%	2.5%
20	CITY OF ZAVALLA	16 of 22	TX	32	98	2.4%	2.5%
21	CITY OF ZAVALLA	17 of 22	TX	32	98	2.4%	2.5%
22	CITY OF ZAVALLA	18 of 22	TX	32	98	2.4%	2.5%
23	CITY OF ZAVALLA	19 of 22	TX	32	98	2.4%	2.5%
24	CITY OF ZAVALLA	20 of 22	TX	32	98	2.4%	2.5%
25	CITY OF ZAVALLA	21 of 22	TX	32	98	2.4%	2.5%
26	CITY OF ZAVALLA	22 of 22	TX	32	98	2.4%	2.5%
27	D & M WSC		TX	950	1696	0.2%	0.2%
28	TBCD WINNIE STOWELL		TX	3297	10079	2.9%	5.1%

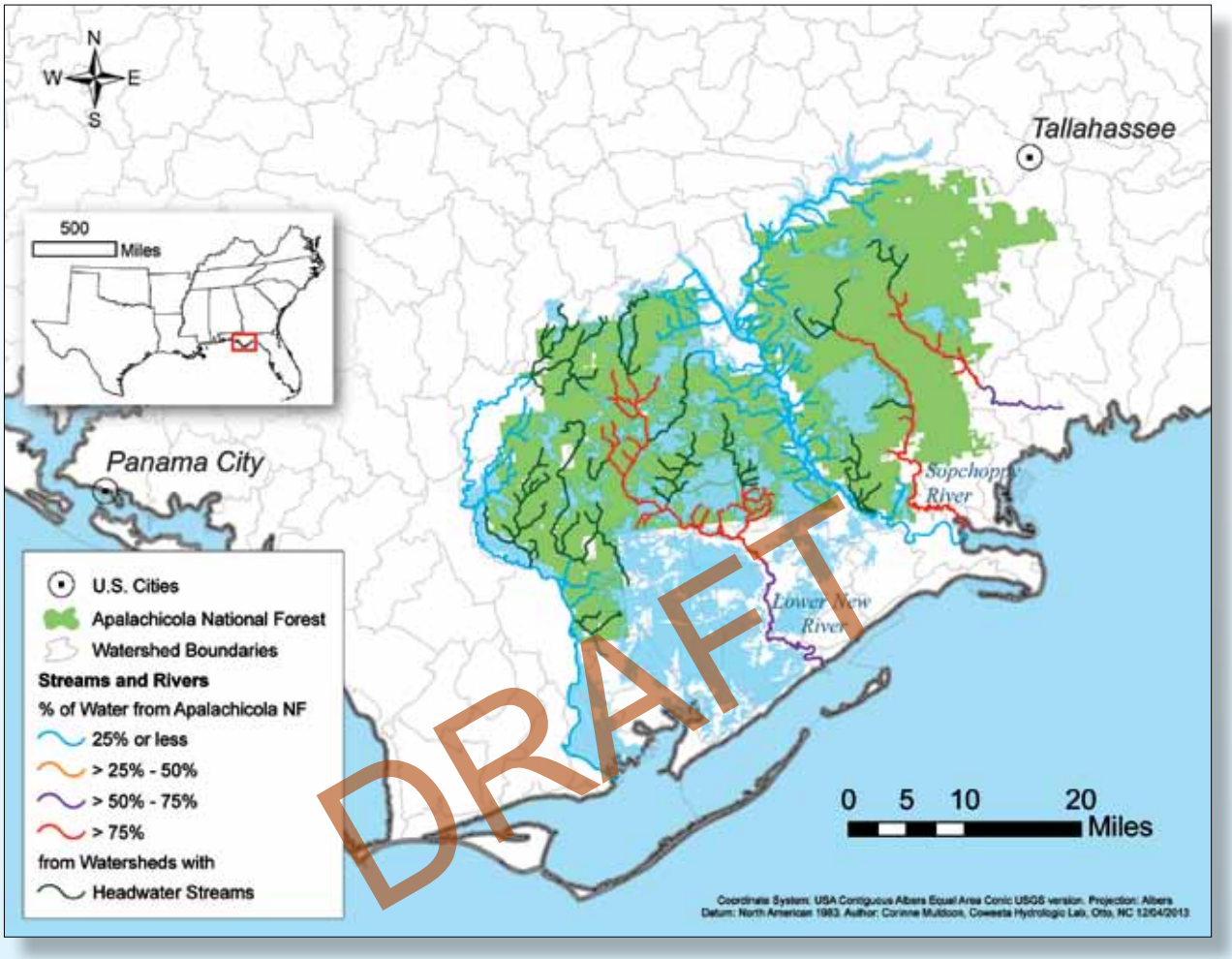
[a] This percentage includes water from Angelina National Forest.

DRAFT

Apalachicola National Forest in Florida

Streams and rivers flowing from Apalachicola National Forest

No public water system intakes receive water from Apalachicola National Forest

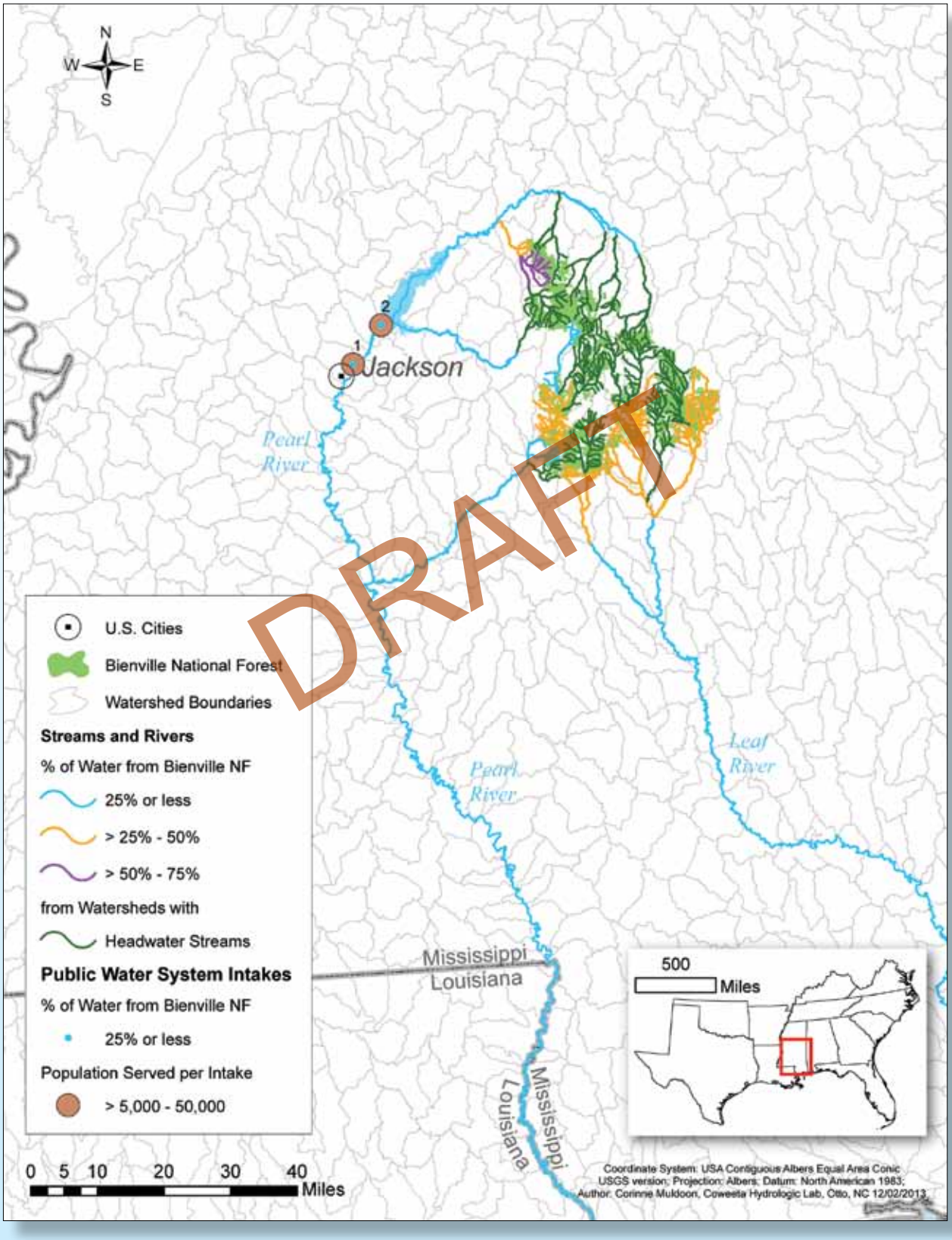


No public water system intakes receive water from Apalachicola National Forest; therefore, it does not have an accompanying intake summary table.

DRAFT

Bienville National Forest in Mississippi

Bienville National Forest and public water system intakes receiving water from Bienville National Forest



Bienville National Forest in Mississippi

Public water system intakes receiving water from Bienville National Forest

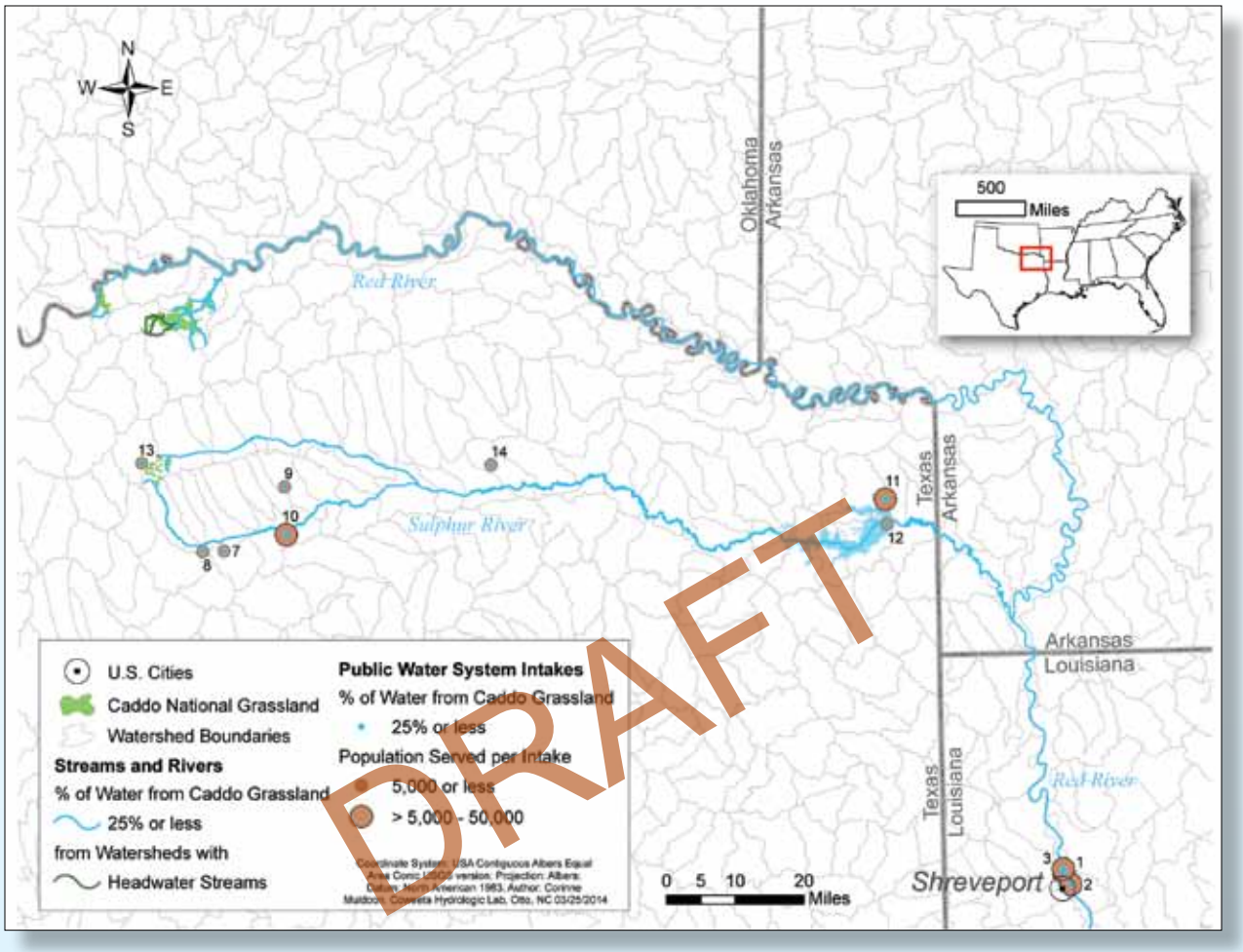
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water		
					Volume available to intake	Percent from Bienville NF only	Percent from all NFS lands[a]
					millions m^3/year		
1	CITY OF JACKSON	1 of 2	MS	87440	4499	2.4%	2.4%
2	CITY OF JACKSON	2 of 2	MS	87440	4291	2.6%	2.6%

[a] This percentage includes water from Bienville National Forest.

DRAFT

Caddo National Grassland in Texas

Caddo National Grassland and public water system intakes receiving greater than or equal to 0.1% annual water supply from Caddo National Grassland



Caddo National Grassland in Texas

Public water system intakes receiving water from Caddo National Grassland

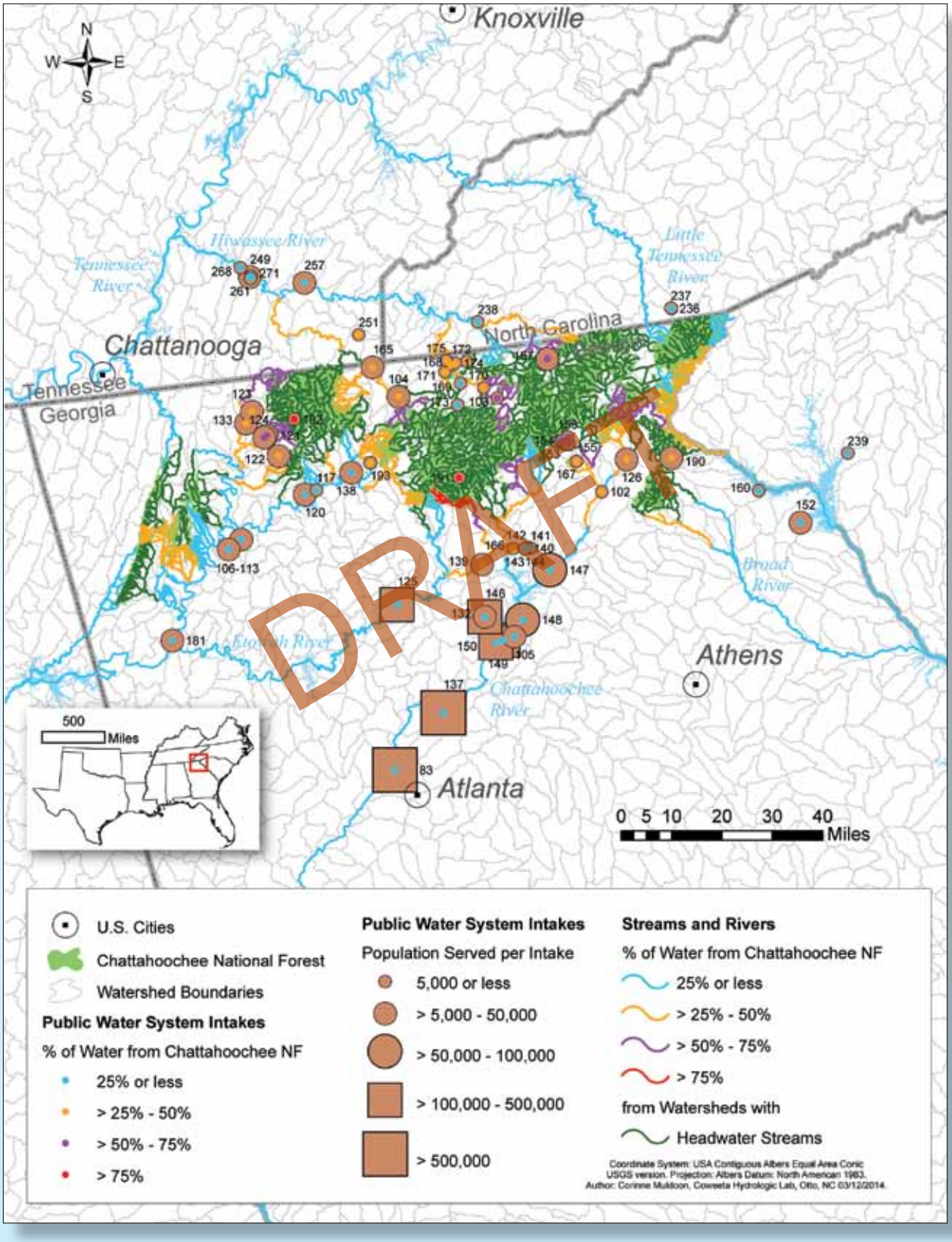
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water		
					Volume available to intake	Percent from Caddo National Grassland only	Percent from all NFS lands[a]
					millions m^3/year		
1	BOSSIER CITY WATER SYSTEM, CITY OF	1 of 3	LA	19870	29807	0.1%	2.7%
2	BOSSIER CITY WATER SYSTEM, CITY OF	2 of 3	LA	19870	29807	0.1%	2.7%
3	BOSSIER CITY WATER SYSTEM, CITY OF	3 of 3	LA	19870	29807	0.1%	2.7%
4	MORGAN CITY WATER SYSTEM		LA	6352	86790	< 0.05%	3.9%
5	ST MARY PARISH WW DIST NO 5		LA	7500	83570	< 0.05%	4.1%
6	WATER & SEWER COMMISSION #4 OF ST MARY		LA	4674	83622	< 0.05%	4.1%
7	CITY OF COMMERCE	1 of 2	TX	1371	115	0.8%	0.8%
8	CITY OF COMMERCE	2 of 2	TX	1371	63	1.5%	1.5%
9	CITY OF COOPER		TX	2146	503	0.2%	0.2%
10	CITY OF SULPHUR SPRINGS		TX	7725	463	0.2%	0.2%
11	CITY OF TEXARKANA		TX	19839	3590	0.1%	0.1%
12	INTERNATIONAL PAPER TEXARKANA MILL		TX	780	3590	0.1%	0.1%
13	NORTH HUNT SUD		TX	2064	43	2.7%	2.7%
14	RED RIVER COUNTY WSC		TX	1645	1395	0.3%	0.3%

[a] This percentage includes water from Caddo National Grassland.

DRAFT

Chattahoochee National Forest in Georgia

Chattahoochee National Forest and public water system intakes receiving more than 10% annual water supply from Chattahoochee National Forest



Chattahoochee National Forest in Georgia

Public water system intakes receiving water from Chattahoochee National Forest (1 of 7 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Chattahoochee NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
1	ALBERTVILLE UTILITIES BOARD		AL	30186	33743	2.1%	13.8%
2	ARAB WATER WORKS BOARD		AL	17576	34002	2.1%	13.7%
3	BRIDGEPORT UTILITIES BOARD		AL	6000	31480	2.3%	14.7%
4	CENTRE WATER & SEWER BOARD		AL	6012	7004	7.7%	8.1%
5	CHATTAHOOCHEE VALLEY WATER SUPPLY DIST		AL	32	5958	5.4%	5.4%
6	CHEROKEE WATER & GAS DEPARTMENT		AL	2250	44324	1.6%	10.6%
7	CLANTON WATER DEPARTMENT		AL	13500	12894	4.2%	7.5%
8	COLBERT COUNTY RURAL WATER SYSTEM		AL	10731	44223	1.6%	10.6%
9	DECATUR (MUNICIPAL UTILITIES BOARD OF)		AL	77100	37772	1.9%	12.4%
10	DEKALB-JACKSON WATER SUPPLY DISTRICT		AL	40	31699	2.3%	14.6%
11	ELMORE WATER & SEWER AUTHORITY	1 of 4	AL	1813	19779	2.7%	5.3%
12	ELMORE WATER & SEWER AUTHORITY	2 of 4	AL	1813	19748	2.7%	5.3%
13	ELMORE WATER & SEWER AUTHORITY	3 of 4	AL	1813	19748	2.7%	5.3%
14	ELMORE WATER & SEWER AUTHORITY	4 of 4	AL	1813	19748	2.7%	5.3%
15	FIVE STAR WATER SUPPLY DISTRICT		AL	100	19683	2.7%	5.3%
16	FLORENCE WATER-WASTEWATER DEPARTMENT	1 of 2	AL	16725	43328	1.7%	10.8%
17	FLORENCE WATER-WASTEWATER DEPARTMENT	2 of 2	AL	16725	43328	1.7%	10.8%
18	FORT PAYNE WATER WORKS BOARD		AL	7248	32790	2.2%	14.2%
19	FT MITCHELL WATER SYSTEM	1 of 2	AL	2036	8406	3.8%	3.8%
20	FT MITCHELL WATER SYSTEM	2 of 2	AL	2036	8082	3.9%	4.0%
21	GADSDEN WATER WORKS AND SEWER BOARD		AL	46551	8146	6.6%	7.7%
22	GREENHILL WATER & FIRE PRO AUTHORITY	1 of 2	AL	3855	43328	1.7%	10.8%
23	GREENHILL WATER & FIRE PRO AUTHORITY	2 of 2	AL	3855	43328	1.7%	10.8%
24	GUNTERSVILLE WATER WORKS & SEWER BOARD	1 of 2	AL	6375	34002	2.1%	13.7%
25	GUNTERSVILLE WATER WORKS & SEWER BOARD	2 of 2	AL	6375	34002	2.1%	13.7%
26	HUNTSVILLE UTILITIES	1 of 2	AL	31310	36889	1.9%	12.6%
27	HUNTSVILLE UTILITIES	2 of 2	AL	31310	35723	2.0%	13.0%
28	LIMESTONE COUNTY WATER SYSTEM		AL	14625	37965	1.9%	12.3%
29	MARBURY WATER SYSTEM, INC.		AL	3660	19779	2.7%	5.3%
30	MILLBROOK UTILITIES		AL	4503	19779	2.7%	5.3%
31	MONTGOMERY WATER WORKS	1 of 10	AL	5601	19834	2.7%	5.3%
32	MONTGOMERY WATER WORKS	2 of 10	AL	5601	19834	2.7%	5.3%
33	MONTGOMERY WATER WORKS	3 of 10	AL	5601	19834	2.7%	5.3%
34	MONTGOMERY WATER WORKS	4 of 10	AL	5601	19834	2.7%	5.3%
35	MONTGOMERY WATER WORKS	5 of 10	AL	5601	19834	2.7%	5.3%
36	MONTGOMERY WATER WORKS	6 of 10	AL	5601	19834	2.7%	5.3%

(Continued)

DRAFT

Chattahoochee National Forest in Georgia

(Continued) Public water system intakes receiving water from Chattahoochee National Forest (2 of 7 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Chattahoochee NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
37	MONTGOMERY WATER WORKS	7 of 10	AL	5601	19834	2.7%	5.3%
38	MONTGOMERY WATER WORKS	8 of 10	AL	5601	19834	2.7%	5.3%
39	MONTGOMERY WATER WORKS	9 of 10	AL	5601	19834	2.7%	5.3%
40	MONTGOMERY WATER WORKS	10 of 10	AL	5601	19748	2.7%	5.3%
41	NORTH MARSHALL UTILITIES	1 of 2	AL	6185	34002	2.1%	13.7%
42	NORTH MARSHALL UTILITIES	2 of 2	AL	6185	34002	2.1%	13.7%
43	NORTHEAST ALABAMA WATER SYSTEM	1 of 3	AL	9375	33743	2.1%	13.8%
44	NORTHEAST ALABAMA WATER SYSTEM	2 of 3	AL	9375	32790	2.2%	14.2%
45	NORTHEAST ALABAMA WATER SYSTEM	3 of 3	AL	9375	32790	2.2%	14.2%
46	OPELIKA UTILITIES		AL	18786	6342	5.0%	5.0%
47	PELL CITY WATER WORKS	1 of 4	AL	3788	10130	5.3%	8.1%
48	PELL CITY WATER WORKS	2 of 4	AL	3788	10130	5.3%	8.1%
49	PELL CITY WATER WORKS	3 of 4	AL	3788	10130	5.3%	8.1%
50	PELL CITY WATER WORKS	4 of 4	AL	3788	9991	5.4%	8.2%
51	PHENIX CITY UTILITIES		AL	35358	6811	4.7%	4.7%
52	PINE HILL WATER DEPARTMENT		AL	2475	28255	1.9%	4.4%
53	PRATTVILLE (WATER WORKS BOARD OF)	1 of 11	AL	2330	20527	2.6%	5.1%
54	PRATTVILLE (WATER WORKS BOARD OF)	2 of 11	AL	2330	20527	2.6%	5.1%
55	PRATTVILLE (WATER WORKS BOARD OF)	3 of 11	AL	2330	19834	2.7%	5.3%
56	PRATTVILLE (WATER WORKS BOARD OF)	4 of 11	AL	2330	19834	2.7%	5.3%
57	PRATTVILLE (WATER WORKS BOARD OF)	5 of 11	AL	2330	19834	2.7%	5.3%
58	PRATTVILLE (WATER WORKS BOARD OF)	6 of 11	AL	2330	19834	2.7%	5.3%
59	PRATTVILLE (WATER WORKS BOARD OF)	7 of 11	AL	2330	19834	2.7%	5.3%
60	PRATTVILLE (WATER WORKS BOARD OF)	8 of 11	AL	2330	19834	2.7%	5.3%
61	PRATTVILLE (WATER WORKS BOARD OF)	9 of 11	AL	2330	19834	2.7%	5.3%
62	PRATTVILLE (WATER WORKS BOARD OF)	10 of 11	AL	2330	19834	2.7%	5.3%
63	PRATTVILLE (WATER WORKS BOARD OF)	11 of 11	AL	2330	19834	2.7%	5.3%
64	SCOTTSBORO WATER WORKS	1 of 2	AL	10950	32790	2.2%	14.2%
65	SCOTTSBORO WATER WORKS	2 of 2	AL	10950	32790	2.2%	14.2%
66	SECTION-DUTTON WATER SYSTEM		AL	32682	32790	2.2%	14.2%
67	SHEFFIELD UTILITIES DEPARTMENT		AL	14574	44223	1.6%	10.6%
68	SHELBY COUNTY WATER SYSTEM		AL	32337	11492	4.7%	8.2%
69	SMITHS WATER AND SEWER AUTHORITY		AL	27780	6756	4.7%	4.7%
70	SOUTHSIDE WATER WORKS		AL	5357	8684	6.2%	7.2%
71	SPANISH FORT WATER SYSTEM		AL	2688	61882	0.9%	3.1%
72	TALLADEGA-SHELBY WATER TREATMENT PLANT		AL	32	10744	5.0%	8.2%
73	TRI COMMUNITY WATER SYSTEM	1 of 5	AL	2187	19779	2.7%	5.3%

(Continued)

DRAFT

Chattahoochee National Forest in Georgia

(Continued) Public water system intakes receiving water from Chattahoochee National Forest (3 of 7 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Chattahoochee NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
74	TRI COMMUNITY WATER SYSTEM	2 of 5	AL	2187	19779	2.7%	5.3%
75	TRI COMMUNITY WATER SYSTEM	3 of 5	AL	2187	19779	2.7%	5.3%
76	TRI COMMUNITY WATER SYSTEM	4 of 5	AL	2187	19748	2.7%	5.3%
77	TRI COMMUNITY WATER SYSTEM	5 of 5	AL	2187	19748	2.7%	5.3%
78	US ARMY AVIATION & MISSILE COMMAND	1 of 2	AL	14250	35723	2.0%	13.0%
79	US ARMY AVIATION & MISSILE COMMAND	2 of 2	AL	14250	35723	2.0%	13.0%
80	WEST MORGAN-EAST LAWRENCE WATER AUTHORIT		AL	26130	38098	1.9%	12.3%
81	WILCOX COUNTY WATER SYSTEM		AL	1319	27484	2.0%	4.5%
82	WISE ALLOYS LLC WATER SYSTEM		AL	2400	43328	1.7%	10.8%
83	ATLANTA		GA	650000	2989	10.7%	10.7%
84	AUGUSTA-RICHMOND CO WS	1 of 18	GA	8870	8960	6.4%	12.5%
85	AUGUSTA-RICHMOND CO WS	2 of 18	GA	8870	8960	6.4%	12.5%
86	AUGUSTA-RICHMOND CO WS	3 of 18	GA	8870	8960	6.4%	12.5%
87	AUGUSTA-RICHMOND CO WS	4 of 18	GA	8870	8960	6.4%	12.5%
88	AUGUSTA-RICHMOND CO WS	5 of 18	GA	8870	8960	6.4%	12.5%
89	AUGUSTA-RICHMOND CO WS	6 of 18	GA	8870	8960	6.4%	12.5%
90	AUGUSTA-RICHMOND CO WS	7 of 18	GA	8870	8960	6.4%	12.5%
91	AUGUSTA-RICHMOND CO WS	8 of 18	GA	8870	8960	6.4%	12.5%
92	AUGUSTA-RICHMOND CO WS	9 of 18	GA	8870	8960	6.4%	12.5%
93	AUGUSTA-RICHMOND CO WS	10 of 18	GA	8870	8960	6.4%	12.5%
94	AUGUSTA-RICHMOND CO WS	11 of 18	GA	8870	8960	6.4%	12.5%
95	AUGUSTA-RICHMOND CO WS	12 of 18	GA	8870	8960	6.4%	12.5%
96	AUGUSTA-RICHMOND CO WS	13 of 18	GA	8870	8960	6.4%	12.5%
97	AUGUSTA-RICHMOND CO WS	14 of 18	GA	8870	8960	6.4%	12.5%
98	AUGUSTA-RICHMOND CO WS	15 of 18	GA	8870	8960	6.4%	12.5%
99	AUGUSTA-RICHMOND CO WS	16 of 18	GA	8870	8960	6.4%	12.5%
100	AUGUSTA-RICHMOND CO WS	17 of 18	GA	8870	8960	6.4%	12.5%
101	AUGUSTA-RICHMOND CO WS	18 of 18	GA	8870	8139	7.1%	13.8%
102	BALDWIN		GA	4160	646	29.8%	29.9%
103	BLAIRSVILLE		GA	3400	176	51.3%	51.3%
104	BLUE RIDGE		GA	5506	740	47.5%	47.5%
105	BUFORD		GA	8045	1845	17.3%	17.3%
106	CALHOUN	1 of 8	GA	6136	1150	10.4%	10.4%
107	CALHOUN	2 of 8	GA	6136	2234	15.6%	16.9%
108	CALHOUN	3 of 8	GA	6136	2234	15.6%	16.9%
109	CALHOUN	4 of 8	GA	6136	2234	15.6%	16.9%
110	CALHOUN	5 of 8	GA	6136	2234	15.6%	16.9%
111	CALHOUN	6 of 8	GA	6136	2234	15.6%	16.9%
112	CALHOUN	7 of 8	GA	6136	2234	15.6%	16.9%
113	CALHOUN	8 of 8	GA	6136	2234	15.6%	16.9%
114	CANON	1 of 2	GA	484	172	3.0%	3.0%
115	CANON	2 of 2	GA	484	172	3.0%	3.0%
116	CANTON		GA	14300	987	9.5%	9.6%

(Continued)

DRAFT

Chattahoochee National Forest in Georgia

(Continued) Public water system intakes receiving water from Chattahoochee National Forest (4 of 7 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Chattahoochee NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
117	CARTERS LAKE MARINA & RESORT		GA	62	563	21.2%	21.2%
118	CARTERSVILLE		GA	24830	1680	5.6%	5.6%
119	CATOOSA UTIL. DIST. AUTHORITY		GA	49400	65	1.3%	1.3%
120	CHATSWORTH	1 of 5	GA	5383	596	20.1%	20.1%
121	CHATSWORTH	2 of 5	GA	5383	85	38.7%	38.7%
122	CHATSWORTH	3 of 5	GA	5383	39	49.0%	49.0%
123	CHATSWORTH	4 of 5	GA	5383	32	58.1%	58.1%
124	CHATSWORTH	5 of 5	GA	5383	32	58.1%	58.1%
125	CHEROKEE COUNTY		GA	145389	802	11.7%	11.8%
126	CLARKESVILLE		GA	5785	217	25.1%	25.1%
127	CLEVELAND WATERWORKS	1 of 3	GA	1213	55	9.6%	9.6%
128	CLEVELAND WATERWORKS	2 of 3	GA	1213	55	9.6%	9.6%
129	CLEVELAND WATERWORKS	3 of 3	GA	1213	55	9.6%	9.6%
130	COLUMBIA COUNTY		GA	31379	8049	7.2%	14.0%
131	COLUMBUS		GA	229000	6756	4.7%	4.7%
132	CUMMING		GA	21512	1845	17.3%	17.3%
133	DALTON UTILITIES	1 of 4	GA	24829	221	1.4%	1.4%
134	DALTON UTILITIES	2 of 4	GA	24829	69	4.5%	4.5%
135	DALTON UTILITIES	3 of 4	GA	24829	38	10.0%	10.0%
136	DALTON UTILITIES	4 of 4	GA	24829	324	45.0%	53.9%
137	DEKALB COUNTY		GA	670000	2202	14.5%	14.5%
138	ELLIJAY-GILMER CO. WATER AUTH.		GA	13010	374	20.6%	20.6%
139	ETOWAH		GA	13843	303	27.0%	27.0%
140	FIELDALE CORP.	1 of 5	GA	5	1013	19.0%	19.1%
141	FIELDALE CORP.	2 of 5	GA	5	1013	19.0%	19.1%
142	FIELDALE CORP.	3 of 5	GA	5	1013	19.0%	19.1%
143	FIELDALE CORP.	4 of 5	GA	5	1013	19.0%	19.1%
144	FIELDALE CORP.	5 of 5	GA	5	1013	19.0%	19.1%
145	FLOYD COUNTY		GA	13913	2412	3.9%	3.9%
146	FORSYTH CO. WATER & SEWER		GA	114499	1845	17.3%	17.3%
147	GAINESVILLE	1 of 2	GA	63310	1845	17.3%	17.3%
148	GAINESVILLE	2 of 2	GA	63310	874	22.1%	22.1%
149	GWINNETT CO. DEPT. OF WATER RESOURCES	1 of 2	GA	374861	1845	17.3%	17.3%
150	GWINNETT CO. DEPT. OF WATER RESOURCES	2 of 2	GA	374861	1845	17.3%	17.3%
151	HARRIS COUNTY WATER SYSTEM		GA	19209	6342	5.0%	5.0%
152	HARTWELL		GA	7116	3525	15.0%	26.8%
153	HELEN	1 of 4	GA	328	234	58.0%	58.0%
154	HELEN	2 of 4	GA	328	234	58.0%	58.0%
155	HELEN	3 of 4	GA	328	234	58.0%	58.0%
156	HELEN	4 of 4	GA	328	234	58.0%	58.0%
157	HIAWASSEE		GA	5496	217	63.5%	63.5%
158	LAFAYETTE		GA	3635	52	2.7%	2.7%
159	LAGRANGE		GA	41852	4900	6.5%	6.5%

DRAFT

(Continued)

Chattahoochee National Forest in Georgia

(Continued) Public water system intakes receiving water from Chattahoochee National Forest (5 of 7 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Chattahoochee NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
160	LAVONIA		GA	4004	3525	15.0%	26.8%
161	LINCOLNTON		GA	1657	7342	7.9%	14.4%
162	LYERLY	1 of 3	GA	408	369	2.0%	2.0%
163	LYERLY	2 of 3	GA	408	369	2.0%	2.0%
164	LYERLY	3 of 3	GA	408	369	2.0%	2.0%
165	MCCAYSVILLE		GA	7020	740	47.5%	47.5%
166	MOUNT SHORES CONDO ASSOCIATION		GA	302	478	26.5%	26.5%
167	MT. YONAH ESTATES HOA		GA	198	318	43.5%	43.5%
168	NOTLA WATER AUTHORITY	1 of 8	GA	1560	51	19.9%	20.0%
169	NOTLA WATER AUTHORITY	2 of 8	GA	1560	51	19.9%	20.0%
170	NOTLA WATER AUTHORITY	3 of 8	GA	1560	29	29.4%	29.4%
171	NOTLA WATER AUTHORITY	4 of 8	GA	1560	396	34.1%	34.1%
172	NOTLA WATER AUTHORITY	5 of 8	GA	1560	396	34.1%	34.1%
173	NOTLA WATER AUTHORITY	6 of 8	GA	1560	356	37.6%	37.6%
174	NOTLA WATER AUTHORITY	7 of 8	GA	1560	356	37.6%	37.6%
175	NOTLA WATER AUTHORITY	8 of 8	GA	1560	356	37.6%	37.6%
176	POOLER	1 of 2	GA	3770	10790	5.3%	10.4%
177	POOLER	2 of 2	GA	3770	10790	5.3%	10.4%
178	RINCON	1 of 2	GA	4940	10790	5.3%	10.4%
179	RINCON	2 of 2	GA	4940	10607	5.4%	10.6%
180	RINGGOLD		GA	2743	65	1.3%	1.3%
181	ROME	1 of 2	GA	22793	2559	3.7%	3.7%
182	ROME	2 of 2	GA	22793	2787	15.7%	16.7%
183	ROYSTON		GA	1400	172	3.0%	3.0%
184	SAVANNAH-I & D	1 of 4	GA	2625	10790	5.3%	10.4%
185	SAVANNAH-I & D	2 of 4	GA	2625	10790	5.3%	10.4%
186	SAVANNAH-I & D	3 of 4	GA	2625	10790	5.3%	10.4%
187	SAVANNAH-I & D	4 of 4	GA	2625	10607	5.4%	10.6%
188	SUMMERVILLE		GA	5826	338	1.8%	1.8%
189	THOMSON-MCDUFFIE CO W&S COMM		GA	8859	7342	7.9%	14.4%
190	TOCCOA		GA	24960	44	33.0%	33.0%
191	USA-CAMP FRANK D. MERRILL		GA	426	74	89.1%	89.1%
192	USFS-LAKE CONASAUGA REC.AREA		GA	75	18	99.7%	99.7%
193	WALNUT MOUNTAIN S/D POA		GA	619	112	28.2%	28.2%
194	WASHINGTON		GA	2052	7342	7.9%	14.4%
195	WEST POINT		GA	3929	5958	5.4%	5.4%
196	WHITE CO WATER & SEWERAGE AUTH		GA	4420	55	9.6%	9.6%
197	PADUCAH WATER WORKS	1 of 5	KY	8002	297492	0.2%	4.2%
198	PADUCAH WATER WORKS	2 of 5	KY	8002	57997	1.2%	8.3%
199	PADUCAH WATER WORKS	3 of 5	KY	8002	57997	1.2%	8.3%
200	PADUCAH WATER WORKS	4 of 5	KY	8002	57997	1.2%	8.3%
201	PADUCAH WATER WORKS	5 of 5	KY	8002	57997	1.2%	8.3%
202	US ENRICHMENT CORP		KY	2000	297858	0.2%	4.2%

(Continued)

DRAFT

Chattahoochee National Forest in Georgia

(Continued) Public water system intakes receiving water from Chattahoochee National Forest (6 of 7 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Chattahoochee NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
203	BELLE CHASSE WATER DISTRICT		LA	17391	772398	0.1%	4.9%
204	DALCOUR WATERWORKS DIST		LA	2666	772398	0.1%	4.9%
205	DOMINO SUGAR		LA	360	772398	0.1%	4.9%
206	DOW USA, LA DIVISION		LA	3960	772183	0.1%	4.9%
207	E JEFFERSON WW DIST NO 1		LA	308362	772398	0.1%	4.9%
208	FERRIDAY TOWN OF		LA	3698	768616	0.1%	4.9%
209	GRAMERCY WATERWORKS		LA	2800	772288	0.1%	4.9%
210	GRETNA WATERWORKS		LA	17500	772398	0.1%	4.9%
211	LUTCHER WATERWORKS		LA	4781	772288	0.1%	4.9%
212	MARATHON PETROLEUM COMPANY LLC		LA	817	772288	0.1%	4.9%
213	NEW ORLEANS ALGIERS WW	1 of 2	LA	29120	772398	0.1%	4.9%
214	NEW ORLEANS ALGIERS WW	2 of 2	LA	29120	772398	0.1%	4.9%
215	NEW ORLEANS CARROLLTON WW	1 of 2	LA	214000	772398	0.1%	4.9%
216	NEW ORLEANS CARROLLTON WW	2 of 2	LA	214000	772398	0.1%	4.9%
217	NORANDA ALUMINA, LLC		LA	500	772288	0.1%	4.9%
218	ORMET CORPORATION		LA	65	772288	0.1%	4.9%
219	POINTE A LA HACHE W S		LA	1400	772398	0.1%	4.9%
220	PORT SULPHUR WATER DIST	1 of 2	LA	4461	772451	0.1%	4.9%
221	PORT SULPHUR WATER DIST	2 of 2	LA	4461	772398	0.1%	4.9%
222	SHELL CHEMICAL COMPANY		LA	675	772288	0.1%	4.9%
223	ST BERNARD PAR WATERWORK		LA	33000	772398	0.1%	4.9%
224	ST CHARLES WATER DIST NO 1 EB		LA	29517	772398	0.1%	4.9%
225	ST CHARLES WATER DIST NO 2 WB		LA	31485	772398	0.1%	4.9%
226	ST JAMES WATER DIST NO 1		LA	6120	772288	0.1%	4.9%
227	ST JAMES WATER DIST NO 2		LA	9000	772288	0.1%	4.9%
228	ST JOHN WATER DIST NO 1		LA	14670	772288	0.1%	4.9%
229	ST JOHN WATER DIST NO 2		LA	3702	772288	0.1%	4.9%
230	W JEFFERSON WW DIST NO 2	1 of 2	LA	104986	772398	0.1%	4.9%
231	W JEFFERSON WW DIST NO 2	2 of 2	LA	104986	772398	0.1%	4.9%
232	WESTWEGO WATERWORKS		LA	8534	772398	0.1%	4.9%
233	SHORT COLEMAN PARK-NASA PLANT	1 of 2	MS	533	46494	1.5%	10.1%
234	SHORT COLEMAN PARK-NASA PLANT	2 of 2	MS	533	46116	1.6%	10.2%
235	FONTANA VILLAGE RESORT WTP		NC	950	2996	1.3%	28.8%
236	KING MOUNTAIN CLUB WATER	1 of 2	NC	75	188	21.3%	38.7%
237	KING MOUNTAIN CLUB WATER	2 of 2	NC	75	188	21.3%	38.7%
238	MURPHY, TOWN OF		NC	4240	696	24.6%	45.2%
239	ANDERSON REGIONAL WTR SYS		SC	25	3525	15.0%	26.8%
240	BJW&SA	1 of 3	SC	16468	10790	5.3%	10.4%
241	BJW&SA	2 of 3	SC	16468	10790	5.3%	10.4%
242	BJW&SA	3 of 3	SC	16468	10607	5.4%	10.6%
243	EDGEFIELD CO W&SA		SC	24652	8139	7.1%	13.8%
244	MCCORMICK CPW		SC	2678	7342	7.9%	14.4%
245	NORTH AUGUSTA CITY OF		SC	26273	8139	7.1%	13.8%

(Continued)

DRAFT

Chattahoochee National Forest in Georgia

(Continued) Public water system intakes receiving water from Chattahoochee National Forest (7 of 7 pages)

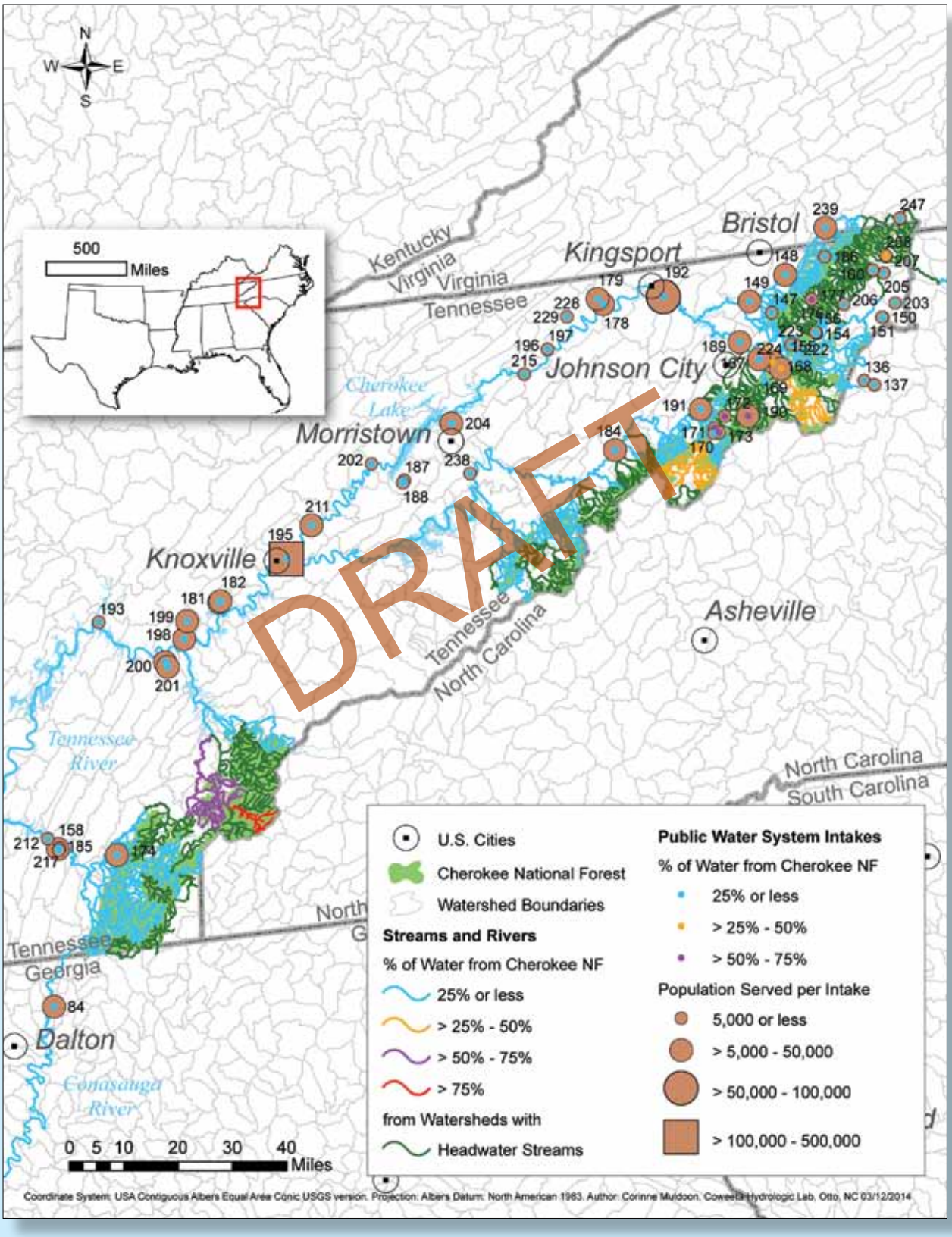
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Chattahoochee NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
246	129 MOTORCYCLE PIT STOP		TN	50	3912	1.0%	31.9%
247	CAMDEN WATER DEPT		TN	9667	54836	1.3%	8.6%
248	CIRCLE VALLEY TRAILER PARK		TN	50	23649	0.2%	13.9%
249	CLEVELAND UTILITIES		TN	38754	3549	18.8%	38.2%
250	CLIFTON WATER DEPT		TN	3830	48338	1.5%	9.7%
251	COPPER BASIN UTILITY DISTRICT		TN	2783	842	43.1%	45.7%
252	DAYTON WATER DEPT		TN	21235	28259	2.5%	16.4%
253	DECATUR WATER DEPT	1 of 2	TN	2810	23649	0.2%	13.9%
254	DECATUR WATER DEPT	2 of 2	TN	2810	23649	0.2%	13.9%
255	E.I. DUPONT, NEW JOHNSONVILLE		TN	750	54924	1.3%	8.5%
256	EASTSIDE UTILITY DISTRICT		TN	48211	28645	2.5%	16.2%
257	ETOWAH UTILITIES		TN	11895	2123	14.4%	40.0%
258	FAT DADDY'S MARINA		TN	34	56377	1.3%	8.3%
259	FIRST U.D. OF HARDIN COUNTY		TN	6669	46494	1.5%	10.1%
260	GRASSHOPPER CREEK P.U.A.		TN	100	28259	2.5%	16.4%
261	HIWASSEE UTILITY COMMISSION		TN	98	3549	18.8%	38.2%
262	KINGSTON WATER SYSTEM		TN	4547	16731	0.2%	18.7%
263	LENOIR CITY UTILITY BOARD	1 of 2	TN	11445	16393	0.2%	19.1%
264	LENOIR CITY UTILITY BOARD	2 of 2	TN	11445	16393	0.2%	19.1%
265	LOUDON UTILITIES BOARD	1 of 2	TN	6141	16393	0.2%	19.1%
266	LOUDON UTILITIES BOARD	2 of 2	TN	6141	16393	0.2%	19.1%
267	NEW JOHNSONVILLE WATER DEPT		TN	2602	49168	1.5%	9.5%
268	OLIN CORPORATION		TN	624	3990	16.8%	34.0%
269	PARSONS WATER DEPARTMENT	1 of 2	TN	2038	49168	1.5%	9.5%
270	PARSONS WATER DEPARTMENT	2 of 2	TN	2038	49168	1.5%	9.5%
271	RESOLUTE FOREST PRODUCTS		TN	650	3549	18.8%	38.2%
272	RIVERSIDE CATFISH HOUSE		TN	30	30074	2.4%	15.4%
273	ROCKWOOD WATER SYSTEM		TN	9273	23124	0.2%	14.2%
274	SHADY GROVE HARBOR MARINA		TN	30	28482	2.5%	16.3%
275	SOUTH BLOUNT UTILITY DISTRICT		TN	36601	3912	1.0%	31.9%
276	SOUTH PITTSBURG WATER SYSTEM		TN	6522	31480	2.3%	14.7%
277	SPRING CITY WATER SYSTEM		TN	2554	23397	0.2%	14.0%
278	TELLICO AREA SERVICES SYSTEM		TN	9475	3912	1.0%	31.9%
279	TENN-AMERICAN WATER COMPANY		TN	185910	29949	2.4%	15.5%
280	WATTS BAR UTILITY DISTRICT	1 of 3	TN	3723	23397	0.2%	14.0%
281	WATTS BAR UTILITY DISTRICT	2 of 3	TN	3723	23397	0.2%	14.0%
282	WATTS BAR UTILITY DISTRICT	3 of 3	TN	3723	23397	0.2%	14.0%
283	WAVERLY WATER DEPARTMENT		TN	1935	54836	1.3%	8.6%

[a] This percentage includes water from Chattahoochee National Forest.

DRAFT

Cherokee National Forest in Tennessee

Cherokee National Forest and public water system intakes receiving more than 5% annual water supply from Cherokee National Forest



Cherokee National Forest in Tennessee

Public water system intakes receiving water from Cherokee National Forest (1 of 5 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Cherokee NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
1	ALBERTVILLE UTILITIES BOARD		AL	30186	33758	3.7%	13.8%
2	ARAB WATER WORKS BOARD		AL	17576	34017	3.7%	13.7%
3	BRIDGEPORT UTILITIES BOARD		AL	6000	31495	4.0%	14.7%
4	CENTRE WATER & SEWER BOARD		AL	6012	7005	0.4%	8.1%
5	CHEROKEE WATER & GAS DEPARTMENT		AL	2250	44337	2.8%	10.6%
6	CLANTON WATER DEPARTMENT		AL	13500	12874	0.2%	7.5%
7	COLBERT COUNTY RURAL WATER SYSTEM		AL	10731	44235	2.8%	10.6%
8	DECATUR (MUNICIPAL UTILITIES BOARD OF)		AL	77100	37784	3.3%	12.4%
9	DEKALB-JACKSON WATER SUPPLY DISTRICT		AL	40	31714	3.9%	14.6%
10	ELMORE WATER & SEWER AUTHORITY	1 of 4	AL	1813	19754	0.1%	5.3%
11	ELMORE WATER & SEWER AUTHORITY	2 of 4	AL	1813	19723	0.1%	5.3%
12	ELMORE WATER & SEWER AUTHORITY	3 of 4	AL	1813	19723	0.1%	5.3%
13	ELMORE WATER & SEWER AUTHORITY	4 of 4	AL	1813	19723	0.1%	5.3%
14	FIVE STAR WATER SUPPLY DISTRICT		AL	100	19658	0.1%	5.3%
15	FLORENCE WATER-WASTEWATER DEPARTMENT	1 of 2	AL	16725	43340	2.9%	10.8%
16	FLORENCE WATER-WASTEWATER DEPARTMENT	2 of 2	AL	16725	43340	2.9%	10.8%
17	FORT PAYNE WATER WORKS BOARD		AL	7248	32805	3.8%	14.2%
18	GADSDEN WATER WORKS AND SEWER BOARD		AL	46551	8144	0.4%	7.7%
19	GREENHILL WATER & FIRE PRO AUTHORITY	1 of 2	AL	3855	43340	2.9%	10.8%
20	GREENHILL WATER & FIRE PRO AUTHORITY	2 of 2	AL	3855	43340	2.9%	10.8%
21	GUNTERSVILLE WATER WORKS & SEWER BOARD	1 of 2	AL	6375	34017	3.7%	13.7%
22	GUNTERSVILLE WATER WORKS & SEWER BOARD	2 of 2	AL	6375	34017	3.7%	13.7%
23	HUNTSVILLE UTILITIES	1 of 2	AL	31310	36904	3.4%	12.6%
24	HUNTSVILLE UTILITIES	2 of 2	AL	31310	35738	3.5%	13.0%
25	LIMESTONE COUNTY WATER SYSTEM		AL	14625	37977	3.3%	12.3%
26	MARBURY WATER SYSTEM, INC.		AL	3660	19754	0.1%	5.3%
27	MILLBROOK UTILITIES		AL	4503	19754	0.1%	5.3%
28	MONTGOMERY WATER WORKS	1 of 10	AL	5601	19810	0.1%	5.3%
29	MONTGOMERY WATER WORKS	2 of 10	AL	5601	19810	0.1%	5.3%
30	MONTGOMERY WATER WORKS	3 of 10	AL	5601	19810	0.1%	5.3%
31	MONTGOMERY WATER WORKS	4 of 10	AL	5601	19810	0.1%	5.3%
32	MONTGOMERY WATER WORKS	5 of 10	AL	5601	19810	0.1%	5.3%
33	MONTGOMERY WATER WORKS	6 of 10	AL	5601	19810	0.1%	5.3%
34	MONTGOMERY WATER WORKS	7 of 10	AL	5601	19810	0.1%	5.3%
35	MONTGOMERY WATER WORKS	8 of 10	AL	5601	19810	0.1%	5.3%
36	MONTGOMERY WATER WORKS	9 of 10	AL	5601	19810	0.1%	5.3%
37	MONTGOMERY WATER WORKS	10 of 10	AL	5601	19723	0.1%	5.3%
38	NORTH MARSHALL UTILITIES	1 of 2	AL	6185	34017	3.7%	13.7%
39	NORTH MARSHALL UTILITIES	2 of 2	AL	6185	34017	3.7%	13.7%
40	NORTHEAST ALABAMA WATER SYSTEM	1 of 3	AL	9375	33758	3.7%	13.8%
41	NORTHEAST ALABAMA WATER SYSTEM	2 of 3	AL	9375	32805	3.8%	14.2%
42	NORTHEAST ALABAMA WATER SYSTEM	3 of 3	AL	9375	32805	3.8%	14.2%
43	PELL CITY WATER WORKS	1 of 4	AL	3788	10117	0.3%	8.1%
44	PELL CITY WATER WORKS	2 of 4	AL	3788	10117	0.3%	8.1%
45	PELL CITY WATER WORKS	3 of 4	AL	3788	10117	0.3%	8.1%
46	PELL CITY WATER WORKS	4 of 4	AL	3788	9977	0.3%	8.2%

DRAFT

(Continued)

Cherokee National Forest in Tennessee

(Continued) Public water system intakes receiving water from Cherokee National Forest (2 of 5 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Cherokee NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
47	PINE HILL WATER DEPARTMENT		AL	2475	28225	0.1%	4.4%
48	PRATTVILLE (WATER WORKS BOARD OF)	1 of 11	AL	2330	20502	0.1%	5.1%
49	PRATTVILLE (WATER WORKS BOARD OF)	2 of 11	AL	2330	20502	0.1%	5.1%
50	PRATTVILLE (WATER WORKS BOARD OF)	3 of 11	AL	2330	19810	0.1%	5.3%
51	PRATTVILLE (WATER WORKS BOARD OF)	4 of 11	AL	2330	19810	0.1%	5.3%
52	PRATTVILLE (WATER WORKS BOARD OF)	5 of 11	AL	2330	19810	0.1%	5.3%
53	PRATTVILLE (WATER WORKS BOARD OF)	6 of 11	AL	2330	19810	0.1%	5.3%
54	PRATTVILLE (WATER WORKS BOARD OF)	7 of 11	AL	2330	19810	0.1%	5.3%
55	PRATTVILLE (WATER WORKS BOARD OF)	8 of 11	AL	2330	19810	0.1%	5.3%
56	PRATTVILLE (WATER WORKS BOARD OF)	9 of 11	AL	2330	19810	0.1%	5.3%
57	PRATTVILLE (WATER WORKS BOARD OF)	10 of 11	AL	2330	19810	0.1%	5.3%
58	PRATTVILLE (WATER WORKS BOARD OF)	11 of 11	AL	2330	19810	0.1%	5.3%
59	SCOTTSBORO WATER WORKS	1 of 2	AL	10950	32805	3.8%	14.2%
60	SCOTTSBORO WATER WORKS	2 of 2	AL	10950	32805	3.8%	14.2%
61	SECTION-DUTTON WATER SYSTEM		AL	32682	32805	3.8%	14.2%
62	SHEFFIELD UTILITIES DEPARTMENT		AL	14574	44235	2.8%	10.6%
63	SHELBY COUNTY WATER SYSTEM		AL	32337	11472	0.3%	8.2%
64	SOUTHSIDE WATER WORKS		AL	5357	8682	0.3%	7.2%
65	SPANISH FORT WATER SYSTEM		AL	2688	61837	< 0.05%	3.1%
66	TALLADEGA-SHELBY WATER TREATMENT PLANT		AL	32	10728	0.3%	8.2%
67	TRI COMMUNITY WATER SYSTEM	1 of 5	AL	2187	19754	0.1%	5.3%
68	TRI COMMUNITY WATER SYSTEM	2 of 5	AL	2187	19754	0.1%	5.3%
69	TRI COMMUNITY WATER SYSTEM	3 of 5	AL	2187	19754	0.1%	5.3%
70	TRI COMMUNITY WATER SYSTEM	4 of 5	AL	2187	19723	0.1%	5.3%
71	TRI COMMUNITY WATER SYSTEM	5 of 5	AL	2187	19723	0.1%	5.3%
72	US ARMY AVIATION & MISSILE COMMAND	1 of 2	AL	14250	35738	3.5%	13.0%
73	US ARMY AVIATION & MISSILE COMMAND	2 of 2	AL	14250	35738	3.5%	13.0%
74	WEST MORGAN-EAST LAWRENCE WATER AUTHORIT		AL	26130	38111	3.3%	12.3%
75	WILCOX COUNTY WATER SYSTEM		AL	1319	27453	0.1%	4.5%
76	WISE ALLOYS LLC WATER SYSTEM		AL	2400	43340	2.9%	10.8%
77	CALHOUN	1 of 7	GA	6136	2235	1.3%	16.9%
78	CALHOUN	2 of 7	GA	6136	2235	1.3%	16.9%
79	CALHOUN	3 of 7	GA	6136	2235	1.3%	16.9%
80	CALHOUN	4 of 7	GA	6136	2235	1.3%	16.9%
81	CALHOUN	5 of 7	GA	6136	2235	1.3%	16.9%
82	CALHOUN	6 of 7	GA	6136	2235	1.3%	16.9%
83	CALHOUN	7 of 7	GA	6136	2235	1.3%	16.9%
84	DALTON UTILITIES		GA	24829	325	9.1%	53.9%
85	ROME		GA	22793	2788	1.0%	16.7%
86	ASHLAND WATER WORKS		KY	44402	89807	< 0.05%	5.4%
87	HARDIN CO. WATER DIST #1/FT. KNOX	1 of 2	KY	8480	137706	< 0.05%	4.2%
88	HARDIN CO. WATER DIST #1/FT. KNOX	2 of 2	KY	8480	137706	< 0.05%	4.2%

(Continued)

DRAFT

Cherokee National Forest in Tennessee

(Continued) Public water system intakes receiving water from Cherokee National Forest (3 of 5 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Cherokee NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
89	HARDIN COUNTY WATER DISTRICT #1		KY	9900	137706	< 0.05%	4.2%
90	HENDERSON MUNICIPAL WATER & SEWER		KY	31696	158419	< 0.05%	3.8%
91	LOUISVILLE WATER COMPANY	1 of 2	KY	365306	132027	< 0.05%	4.4%
92	LOUISVILLE WATER COMPANY	2 of 2	KY	365306	132027	< 0.05%	4.4%
93	MAYSVILLE UTILITY COMMISSION		KY	15548	101543	< 0.05%	4.9%
94	MORGANFIELD WATER WORKS		KY	5495	158638	< 0.05%	3.8%
95	NORTHERN KENTUCKY WATER SERVICE		KY	67221	102928	< 0.05%	4.8%
96	PADUCAH WATER WORKS	1 of 5	KY	8002	297413	0.4%	4.2%
97	PADUCAH WATER WORKS	2 of 5	KY	8002	58004	2.2%	8.3%
98	PADUCAH WATER WORKS	3 of 5	KY	8002	58004	2.2%	8.3%
99	PADUCAH WATER WORKS	4 of 5	KY	8002	58004	2.2%	8.3%
100	PADUCAH WATER WORKS	5 of 5	KY	8002	58004	2.2%	8.3%
101	RUSSELL WATER COMPANY		KY	7425	89992	< 0.05%	5.4%
102	STURGIS WATER WORKS		KY	3677	207542	< 0.05%	3.1%
103	US ENRICHMENT CORP		KY	2000	297779	0.4%	4.2%
104	BELLE CHASSE WATER DISTRICT		LA	17391	766843	0.2%	4.9%
105	DALCOUR WATERWORKS DIST		LA	2666	766843	0.2%	4.9%
106	DOMINO SUGAR		LA	360	766843	0.2%	4.9%
107	DOW USA, LA DIVISION		LA	3960	766628	0.2%	4.9%
108	E JEFFERSON WW DIST NO 1		LA	308362	766843	0.2%	4.9%
109	FERRIDAY TOWN OF		LA	3698	763064	0.2%	4.9%
110	GRAMERCY WATERWORKS		LA	2800	766733	0.2%	4.9%
111	GRETNA WATERWORKS		LA	17500	766843	0.2%	4.9%
112	LUTCHER WATERWORKS		LA	4781	766733	0.2%	4.9%
113	MARATHON PETROLEUM COMPANY LLC		LA	817	766733	0.2%	4.9%
114	NEW ORLEANS ALGIERS WW	1 of 2	LA	29120	766843	0.2%	4.9%
115	NEW ORLEANS ALGIERS WW	2 of 2	LA	29120	766843	0.2%	4.9%
116	NEW ORLEANS CARROLLTON WW	1 of 2	LA	214000	766843	0.2%	4.9%
117	NEW ORLEANS CARROLLTON WW	2 of 2	LA	214000	766843	0.2%	4.9%
118	NORANDA ALUMINA, LLC		LA	500	766733	0.2%	4.9%
119	ORMET CORPORATION		LA	65	766733	0.2%	4.9%
120	POINTE A LA HACHE W S		LA	1400	766843	0.2%	4.9%
121	PORT SULPHUR WATER DIST	1 of 2	LA	4461	766896	0.2%	4.9%
122	PORT SULPHUR WATER DIST	2 of 2	LA	4461	766843	0.2%	4.9%
123	SHELL CHEMICAL COMPANY		LA	675	766733	0.2%	4.9%
124	ST BERNARD PAR WATERWORK		LA	33000	766843	0.2%	4.9%
125	ST CHARLES WATER DIST NO 1 EB		LA	29517	766843	0.2%	4.9%
126	ST CHARLES WATER DIST NO 2 WB		LA	31485	766843	0.2%	4.9%
127	ST JAMES WATER DIST NO 1		LA	6120	766733	0.2%	4.9%
128	ST JAMES WATER DIST NO 2		LA	9000	766733	0.2%	4.9%
129	ST JOHN WATER DIST NO 1		LA	14670	766733	0.2%	4.9%
130	ST JOHN WATER DIST NO 2		LA	3702	766733	0.2%	4.9%
131	W JEFFERSON WW DIST NO 2	1 of 2	LA	104986	766843	0.2%	4.9%
132	W JEFFERSON WW DIST NO 2	2 of 2	LA	104986	766843	0.2%	4.9%
133	WESTWEGO WATERWORKS		LA	8534	766843	0.2%	4.9%
134	SHORT COLEMAN PARK-NASA PLANT	1 of 2	MS	533	46506	2.7%	10.1%
135	SHORT COLEMAN PARK-NASA PLANT	2 of 2	MS	533	46128	2.7%	10.2%
136	BEECH MOUNTAIN, TOWN OF	1 of 2	NC	1209	342	6.1%	6.9%
137	BEECH MOUNTAIN, TOWN OF	2 of 2	NC	1209	342	6.1%	6.9%
138	CLEVELAND COUNTY WATER		NC	19149	342	0.3%	1.0%
139	WEST JEFFERSON, TOWN OF	1 of 7	NC	98	342	0.3%	1.0%
140	WEST JEFFERSON, TOWN OF	2 of 7	NC	98	342	0.3%	1.0%
141	WEST JEFFERSON, TOWN OF	3 of 7	NC	98	342	0.3%	1.0%

(Continued)

DRAFT

Cherokee National Forest in Tennessee

(Continued) Public water system intakes receiving water from Cherokee National Forest (4 of 5 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Cherokee NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
142	WEST JEFFERSON, TOWN OF	4 of 7	NC	98	342	0.3%	1.0%
143	WEST JEFFERSON, TOWN OF	5 of 7	NC	98	342	0.3%	1.0%
144	WEST JEFFERSON, TOWN OF	6 of 7	NC	98	342	0.3%	1.0%
145	WEST JEFFERSON, TOWN OF	7 of 7	NC	98	342	0.3%	1.0%
146	129 MOTORCYCLE PIT STOP		TN	50	3921	3.2%	31.9%
147	BLUFF CITY WATER DEPARTMENT		TN	2467	895	14.8%	32.2%
148	BRISTOL DEPT. UTILITIES		TN	29362	841	14.6%	33.1%
149	BRISTOL-BLUFF CITY UTILITY DISTRICT		TN	5254	895	14.8%	32.2%
150	BROWNLOW UTILITY DISTRICT	1 of 2	TN	218	191	10.2%	10.2%
151	BROWNLOW UTILITY DISTRICT	2 of 2	TN	218	191	10.2%	10.2%
152	BUSH BROTHERS #3		TN	323	5764	4.7%	19.8%
153	CAMDEN WATER DEPT		TN	9667	54848	2.3%	8.6%
154	CARDERVIEW UTILITY DISTRICT	1 of 3	TN	360	581	10.9%	11.4%
155	CARDERVIEW UTILITY DISTRICT	2 of 3	TN	360	581	10.9%	11.4%
156	CARDERVIEW UTILITY DISTRICT	3 of 3	TN	360	581	10.9%	11.4%
157	CIRCLE VALLEY TRAILER PARK		TN	50	23663	3.9%	13.9%
158	CLEVELAND UTILITIES		TN	38754	3550	9.4%	38.2%
159	CLIFTON WATER DEPT		TN	3830	48350	2.6%	9.7%
160	COLD SPRINGS UTILITY DISTRICT		TN	767	36	12.5%	12.5%
161	COPPER BASIN UTILITY DISTRICT		TN	2783	842	2.6%	45.7%
162	DAYTON WATER DEPT		TN	21235	28274	4.4%	16.4%
163	DECATUR WATER DEPT	1 of 2	TN	2810	23663	3.9%	13.9%
164	DECATUR WATER DEPT	2 of 2	TN	2810	23663	3.9%	13.9%
165	E.I. DUPONT, NEW JOHNSONVILLE		TN	750	54936	2.3%	8.5%
166	EASTSIDE UTILITY DISTRICT		TN	48211	28660	4.4%	16.2%
167	ELIZABETHTON WATER DEPT	1 of 3	TN	8964	977	19.9%	20.2%
168	ELIZABETHTON WATER DEPT	2 of 3	TN	8964	165	38.7%	39.0%
169	ELIZABETHTON WATER DEPT	3 of 3	TN	8964	165	38.7%	39.0%
170	ERWIN UTILITIES	1 of 4	TN	3113	1093	8.7%	22.2%
171	ERWIN UTILITIES	2 of 4	TN	3113	70	57.5%	57.5%
172	ERWIN UTILITIES	3 of 4	TN	3113	70	57.5%	57.5%
173	ERWIN UTILITIES	4 of 4	TN	3113	70	57.5%	57.5%
174	ETOWAH UTILITIES		TN	11895	2127	9.0%	40.0%
175	FAT DADDY'S MARINA		TN	34	56389	2.2%	8.3%
176	FIRST U D OF CARTER CO	1 of 2	TN	4094	71	63.7%	63.7%
177	FIRST U D OF CARTER CO	2 of 2	TN	4094	71	63.7%	63.7%
178	FIRST U D OF HAWKINS CO,#1	1 of 2	TN	9356	3205	10.2%	16.7%
179	FIRST U D OF HAWKINS CO,#1	2 of 2	TN	9356	3205	10.2%	16.7%
180	FIRST U.D. OF HARDIN COUNTY		TN	6669	46506	2.7%	10.1%
181	FIRST UTIL DIST OF KNOX COUNT	1 of 2	TN	40625	11685	5.1%	14.4%
182	FIRST UTIL DIST OF KNOX COUNT	2 of 2	TN	40625	11685	5.1%	14.4%
183	GRASSHOPPER CREEK P.U.A.		TN	100	28274	4.4%	16.4%
184	GREENEVILLE WATER & LIGHT COMM		TN	24361	1407	10.3%	20.8%
185	HIWASSEE UTILITY COMMISSION		TN	98	3550	9.4%	38.2%
186	JACOBS CREEK JOB CORPS CENTER - USFS		TN	300	783	15.1%	34.9%
187	JEFFERSON CITY WATER & SEWER C	1 of 2	TN	4197	3817	8.6%	14.0%
188	JEFFERSON CITY WATER & SEWER C	2 of 2	TN	4197	3817	8.6%	14.0%
189	JOHNSON CITY WATER DEPT	1 of 2	TN	47998	977	19.9%	20.2%
190	JOHNSON CITY WATER DEPT	2 of 2	TN	47998	70	57.5%	57.5%
191	JONESBOROUGH WATER DEPT		TN	26501	1185	10.9%	23.4%
192	KINGSPORT WATER DEPT		TN	91499	2368	13.8%	20.5%
193	KINGSTON WATER SYSTEM		TN	4547	16745	5.5%	18.7%
194	KNOX-CHAPMAN UTILITY DISTRICT		TN	30691	6544	4.2%	17.5%
195	KNOXVILLE UTILITIES BOARD-KUB		TN	236338	11497	5.2%	14.6%
196	LAKEVIEW UTILITY DISTRICT	1 of 2	TN	702	3380	9.7%	15.9%

(Continued)

DRAFT

Cherokee National Forest in Tennessee

(Continued) Public water system intakes receiving water from Cherokee National Forest (5 of 5 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Cherokee NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
197	LAKEVIEW UTILITY DISTRICT	2 of 2	TN	702	3380	9.7%	15.9%
198	LENOIR CITY UTILITY BOARD	1 of 2	TN	11445	16407	5.6%	19.1%
199	LENOIR CITY UTILITY BOARD	2 of 2	TN	11445	16407	5.6%	19.1%
200	LOUDON UTILITIES BOARD	1 of 2	TN	6141	16407	5.6%	19.1%
201	LOUDON UTILITIES BOARD	2 of 2	TN	6141	16407	5.6%	19.1%
202	LUTTRELL-BLAINE-CORRYTON U.D.		TN	1760	3855	8.5%	13.9%
203	MIDWAY MARKET		TN	25	87	5.2%	5.2%
204	MORRISTOWN WATER SYSTEM		TN	15509	3649	9.0%	14.7%
205	MOUNTAIN CITY WATER DEPT.	1 of 4	TN	2422	36	12.5%	12.5%
206	MOUNTAIN CITY WATER DEPT.	2 of 4	TN	2422	47	24.0%	24.0%
207	MOUNTAIN CITY WATER DEPT.	3 of 4	TN	2422	51	39.1%	40.2%
208	MOUNTAIN CITY WATER DEPT.	4 of 4	TN	2422	51	39.1%	40.2%
209	NEW JOHNSONVILLE WATER DEPT		TN	2602	49180	2.5%	9.5%
210	NEWPORT UTILITIES BOARD		TN	25037	2502	3.5%	24.5%
211	NORTHEAST KNOX U D		TN	21048	4173	7.8%	12.8%
212	OLIN CORPORATION		TN	624	3991	8.4%	34.0%
213	PARSONS WATER DEPARTMENT	1 of 2	TN	2038	49180	2.5%	9.5%
214	PARSONS WATER DEPARTMENT	2 of 2	TN	2038	49180	2.5%	9.5%
215	PERSIA UTILITY DISTRICT		TN	4414	3444	9.5%	15.6%
216	PIGEON FORGE WATER DEPARTMENT		TN	7062	5764	4.7%	19.8%
217	RESOLUTE FOREST PRODUCTS		TN	650	3550	9.4%	38.2%
218	RIVERSIDE CATFISH HOUSE		TN	30	30089	4.2%	15.4%
219	ROCKWOOD WATER SYSTEM		TN	9273	23139	4.0%	14.2%
220	SEVIERVILLE WATER SYSTEM		TN	31278	6458	4.2%	17.7%
221	SHADY GROVE HARBOR MARINA		TN	30	28497	4.4%	16.3%
222	SIAM UTILITY DISTRICT	1 of 3	TN	862	977	19.9%	20.2%
223	SIAM UTILITY DISTRICT	2 of 3	TN	862	977	19.9%	20.2%
224	SIAM UTILITY DISTRICT	3 of 3	TN	862	977	19.9%	20.2%
225	SOUTH BLOUNT UTILITY DISTRICT		TN	36601	3921	3.2%	31.9%
226	SOUTH PITTSBURG WATER SYSTEM		TN	6522	31495	4.0%	14.7%
227	SPRING CITY WATER SYSTEM		TN	2554	23411	3.9%	14.0%
228	SURGOINSVILLE UTILITY DISTRICT	1 of 2	TN	1179	3380	9.7%	15.9%
229	SURGOINSVILLE UTILITY DISTRICT	2 of 2	TN	1179	3380	9.7%	15.9%
230	TELLICO AREA SERVICES SYSTEM		TN	9475	3921	3.2%	31.9%
231	TENN-AMERICAN WATER COMPANY		TN	185910	29964	4.2%	15.5%
232	WATTS BAR UTILITY DISTRICT	1 of 3	TN	3723	23411	3.9%	14.0%
233	WATTS BAR UTILITY DISTRICT	2 of 3	TN	3723	23411	3.9%	14.0%
234	WATTS BAR UTILITY DISTRICT	3 of 3	TN	3723	23411	3.9%	14.0%
235	WAVERLY WATER DEPARTMENT		TN	1935	54848	2.3%	8.6%
236	WHITE PINE WATER SYSTEM	1 of 2	TN	1057	5594	4.9%	20.4%
237	WHITE PINE WATER SYSTEM	2 of 2	TN	1057	5594	4.9%	20.4%
238	WITT UTILITY DISTRICT		TN	2498	2028	8.4%	15.7%
239	BRISTOL VIRGINIA UTILITY BOARD		VA	20000	705	10.9%	32.9%
240	FRIES, TOWN OF		VA	484	1857	< 0.05%	3.5%
241	NARROWS, TOWN OF		VA	630	5193	< 0.05%	9.9%
242	PULASKI COUNTY PSA		VA	9452	3298	< 0.05%	6.3%
243	RADFORD ARMY AMMUNITION PLANT - 419	1 of 2	VA	690	4012	< 0.05%	6.0%
244	RADFORD ARMY AMMUNITION PLANT - 419	2 of 2	VA	690	4012	< 0.05%	6.0%
245	RADFORD, CITY OF		VA	15859	3935	< 0.05%	6.1%
246	RAM/WAYSIDE COMMUNITY WATER SYSTEM		VA	93	5193	< 0.05%	9.9%
247	WASHINGTON COUNTY SERVICE AUTHORITY		VA	4757	77	5.4%	68.3%

[a] This percentage includes water from Cherokee National Forest.

DRAFT

Conecuh National Forest in Alabama

Streams and rivers flowing from Conecuh National Forest

No public water system intakes receive water from Conecuh National Forest

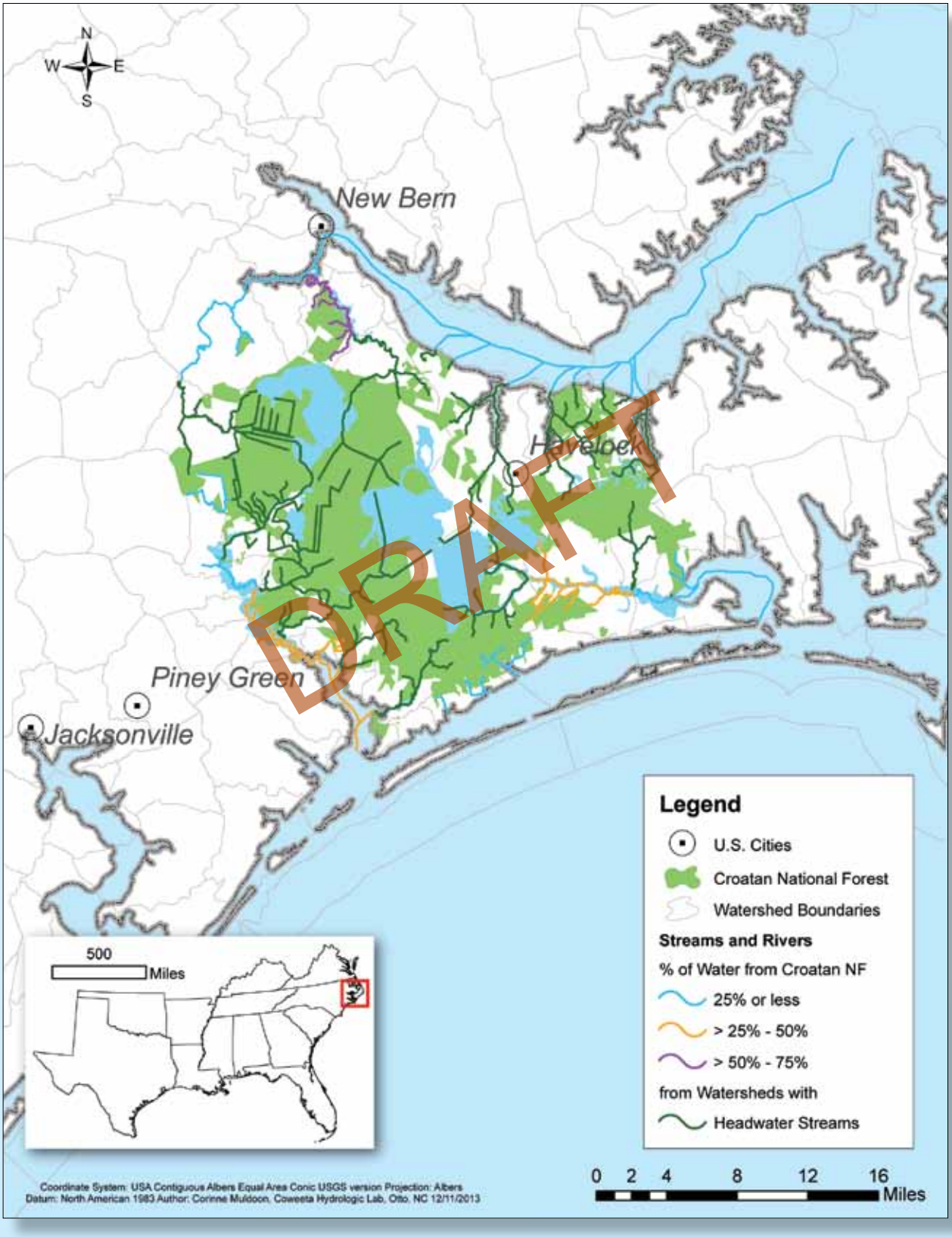
No public water system intakes receive water from Conecuh National Forest; therefore, it does not have an accompanying intake summary table.

DRAFT

Croatan National Forest in North Carolina

Streams and rivers flowing from Croatan National Forest

No public water system intakes receive water from Croatan National Forest

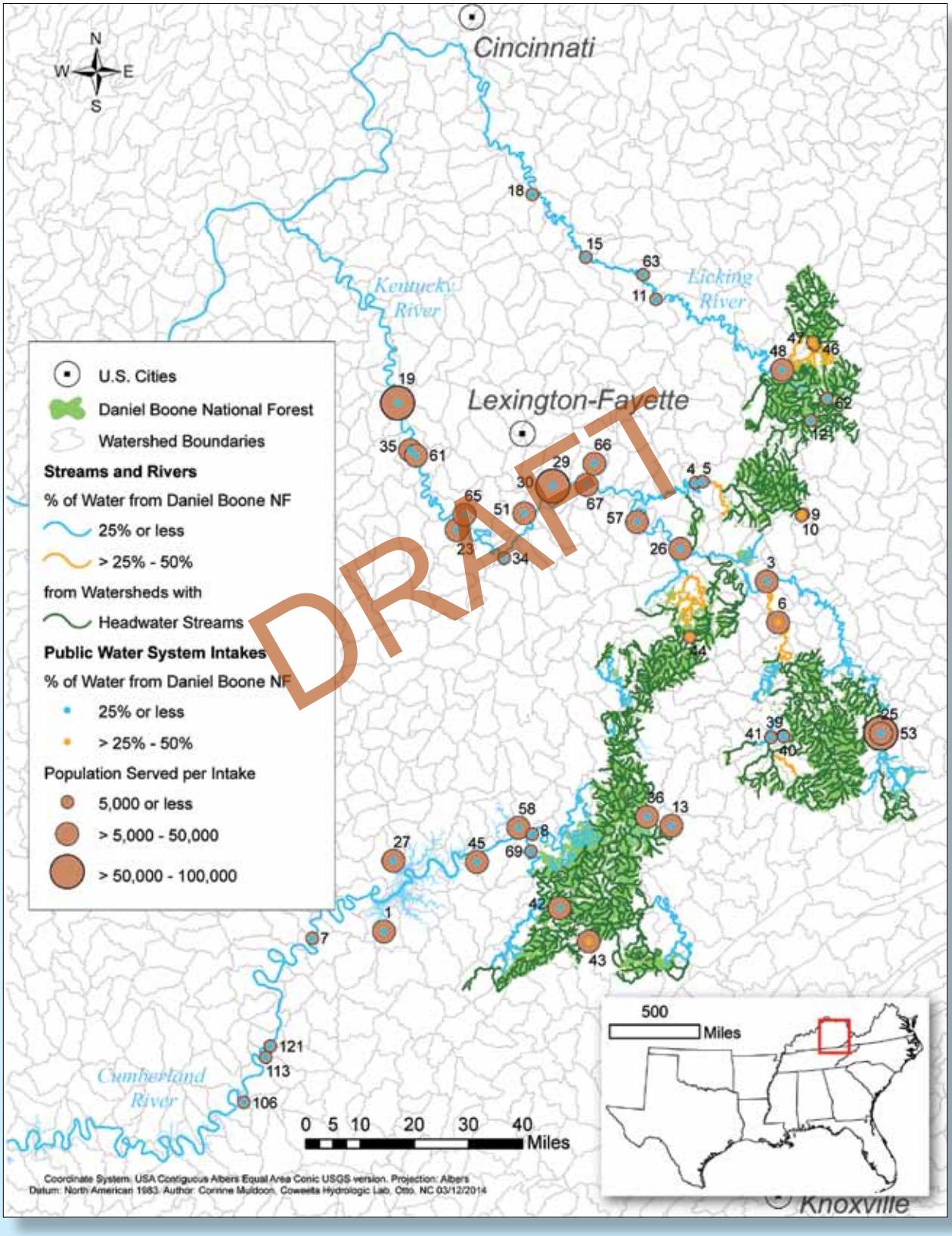


No public water system intakes receive water from Croatan National Forest; therefore, it does not have an accompanying intake summary table.

DRAFT

Daniel Boone National Forest in Kentucky

Daniel Boone National Forest and public water system intakes receiving more than 5% annual water supply from Daniel Boone National Forest



Daniel Boone National Forest in Kentucky

Public water system intakes receiving water from Daniel Boone National Forest (1 of 3 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Daniel Boone NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
1	ALBANY WATER WORKS		KY	7351	9744	8.7%	8.7%
2	BARKLEY LAKE WATER DISTRICT		KY	16038	29482	2.9%	3.4%
3	BEATTYVILLE WATER WORKS		KY	6783	3710	9.1%	9.1%
4	BEECH FORK WATER COMMISSION	1 of 2	KY	13	539	23.4%	23.5%
5	BEECH FORK WATER COMMISSION	2 of 2	KY	13	539	23.4%	23.5%
6	BOONEVILLE WATER AND SEWER		KY	5495	1090	26.1%	26.1%
7	BURKESVILLE WATER WORKS		KY	3219	10075	8.4%	8.4%
8	BURNSIDE WATER COMPANY		KY	2284	8120	10.4%	10.5%
9	CAMPTON WATER SYSTEM	1 of 2	KY	3300	30	36.9%	36.9%
10	CAMPTON WATER SYSTEM	2 of 2	KY	3300	30	36.9%	36.9%
11	CARLISLE WATER DEPARTMENT		KY	1390	2622	10.4%	10.4%
12	CAVE RUN REGIONAL WT COMM		KY	25	83	6.8%	6.9%
13	CORBIN UTILITIES COMMISSION		KY	17327	470	12.2%	12.2%
14	CRITTENDEN-LIVINGSTON CO WATER DISTRICT		KY	9079	30309	2.8%	3.6%
15	CYNTHIANA MUNICIPAL WATER WORKS		KY	3921	2881	9.5%	9.5%
16	EDDYVILLE WATER DEPARTMENT	1 of 2	KY	1839	29832	2.8%	3.6%
17	EDDYVILLE WATER DEPARTMENT	2 of 2	KY	1839	29832	2.8%	3.6%
18	FALMOUTH WATER DEPARTMENT		KY	3861	4906	5.6%	5.6%
19	FRANKFORT PLANT BOARD		KY	52153	7826	7.1%	7.1%
20	HARDIN CO. WATER DIST #1/FT. KNOX	1 of 2	KY	8480	137706	0.6%	4.2%
21	HARDIN CO. WATER DIST #1/FT. KNOX	2 of 2	KY	8480	137706	0.6%	4.2%
22	HARDIN COUNTY WATER DISTRICT #1		KY	9900	137706	0.6%	4.2%
23	HARRODSBURG MUNICIPAL WATER DEPARTMENT		KY	12572	7454	7.4%	7.4%
24	HENDERSON MUNICIPAL WATER & SEWER		KY	31696	158419	0.5%	3.8%
25	HYDEN LESLIE CO WATER DISTRICT		KY	9587	310	6.3%	6.3%
26	IRVINE MUNICIPAL UTILITIES		KY	6386	4515	9.4%	9.4%
27	JAMESTOWN MUNICIPAL WATER WORKS		KY	10799	9591	8.8%	8.8%
28	KENTUCKY STATE PENITENTIARY		KY	1000	29832	2.8%	3.6%
29	KENTUCKY-AMERICAN WATER CO	1 of 2	KY	80311	5880	9.4%	9.4%
30	KENTUCKY-AMERICAN WATER CO	2 of 2	KY	80311	5880	9.4%	9.4%
31	KETTLE ISLAND WATER SYSTEM		KY	112	141	< 0.05%	< 0.05%
32	KNOX COUNTY UTILITY COMMISSION		KY	7948	1279	< 0.05%	0.1%
33	KUTTAWA WATER DEPARTMENT		KY	853	29922	2.8%	3.6%
34	LANCASTER WATER WORKS		KY	2222	6468	8.5%	8.6%
35	LAWRENCEBURG WATER & SEWER DEPT		KY	19305	7727	7.2%	7.2%
36	LONDON UTILITY COMMISSION		KY	11288	470	12.2%	12.2%
37	LOUISVILLE WATER COMPANY	1 of 2	KY	365306	132027	0.6%	4.4%
38	LOUISVILLE WATER COMPANY	2 of 2	KY	365306	132027	0.6%	4.4%
39	MANCHESTER WATER WORKS	1 of 3	KY	4129	410	12.3%	12.3%
40	MANCHESTER WATER WORKS	2 of 3	KY	4129	410	12.3%	12.3%
41	MANCHESTER WATER WORKS	3 of 3	KY	4129	343	13.2%	13.2%

(Continued)

DRAFT

Daniel Boone National Forest in Kentucky

(Continued) Public water system intakes receiving water from Daniel Boone National Forest (2 of 3 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Daniel Boone NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
42	MCCREARY COUNTY WATER DISTRICT	1 of 2	KY	9112	2228	6.2%	6.2%
43	MCCREARY COUNTY WATER DISTRICT	2 of 2	KY	9112	146	39.1%	39.1%
44	MCKEE WATER WORKS		KY	1990	34	37.6%	37.6%
45	MONTICELLO WATER & SEWER COMMISSION		KY	23166	8720	9.7%	9.7%
46	MOREHEAD STATE UNIVERSITY	1 of 2	KY	3250	274	28.4%	28.5%
47	MOREHEAD STATE UNIVERSITY	2 of 2	KY	3250	274	28.4%	28.5%
48	MOREHEAD UTILITY PLANT BOARD		KY	9970	1588	17.2%	17.2%
49	MORGANFIELD WATER WORKS		KY	5495	158638	0.5%	3.8%
50	MT VERNON WATER WORKS		KY	5931	150	3.7%	3.7%
51	NICHOLASVILLE WATER DEPARTMENT		KY	20552	6468	8.5%	8.6%
52	NORTHERN KENTUCKY WATER SERVICE	1 of 2	KY	67221	5494	5.0%	5.0%
53	NORTHERN KENTUCKY WATER SERVICE	2 of 2	KY	67221	310	6.3%	6.3%
54	PADUCAH WATER WORKS		KY	8002	297413	0.6%	4.2%
55	PINE MT SETTLEMENT SCHOOL		KY	45	108	5.0%	5.0%
56	PRINCETON WATER & SEWER COMMISSION		KY	10288	29832	2.8%	3.6%
57	RICHMOND UTILITIES		KY	35102	5372	10.3%	10.3%
58	SOMERSET WATER SERVICE		KY	29700	8657	9.8%	9.8%
59	STURGIS WATER WORKS		KY	3677	207542	0.4%	3.1%
60	US ENRICHMENT CORP		KY	2000	297779	0.6%	4.2%
61	VERSAILLES WATER SYSTEM		KY	17822	7727	7.2%	7.2%
62	WEST LIBERTY WATER COMPANY		KY	2655	973	7.1%	7.2%
63	WESTERN FLEMING WATER DISTRICT		KY	3888	2694	10.1%	10.2%
64	WILLIAMSBURG WATER DEPARTMENT		KY	5474	2640	0.3%	0.3%
65	WILMORE WATER WORKS		KY	5652	7454	7.4%	7.4%
66	WINCHESTER MUNICIPAL UTILITIES	1 of 2	KY	15354	5880	9.4%	9.4%
67	WINCHESTER MUNICIPAL UTILITIES	2 of 2	KY	15354	5744	9.6%	9.6%
68	WOOD CREEK WATER DISTRICT		KY	13953	88	3.0%	3.0%
69	WOODSON BEND PROPERTY OWNERS ASSOC		KY	1455	2638	6.5%	6.5%
70	BELLE CHASSE WATER DISTRICT		LA	17391	766843	0.2%	4.9%
71	DALCOUR WATERWORKS DIST		LA	2666	766843	0.2%	4.9%
72	DOMINO SUGAR		LA	360	766843	0.2%	4.9%
73	DOW USA, LA DIVISION		LA	3960	766628	0.2%	4.9%
74	E JEFFERSON WW DIST NO 1		LA	308362	766843	0.2%	4.9%
75	FERRIDAY TOWN OF		LA	3698	763064	0.2%	4.9%
76	GRAMERCY WATERWORKS		LA	2800	766733	0.2%	4.9%
77	GRETNA WATERWORKS		LA	17500	766843	0.2%	4.9%
78	LUTCHER WATERWORKS		LA	4781	766733	0.2%	4.9%
79	MARATHON PETROLEUM COMPANY LLC		LA	817	766733	0.2%	4.9%
80	NEW ORLEANS ALGIERS WW	1 of 2	LA	29120	766843	0.2%	4.9%
81	NEW ORLEANS ALGIERS WW	2 of 2	LA	29120	766843	0.2%	4.9%
82	NEW ORLEANS CARROLLTON WW	1 of 2	LA	214000	766843	0.2%	4.9%
83	NEW ORLEANS CARROLLTON WW	2 of 2	LA	214000	766843	0.2%	4.9%
84	NORANDA ALUMINA, LLC		LA	500	766733	0.2%	4.9%

(Continued)

DRAFT

Daniel Boone National Forest in Kentucky

(Continued) Public water system intakes receiving water from Daniel Boone National Forest (3 of 3 pages)

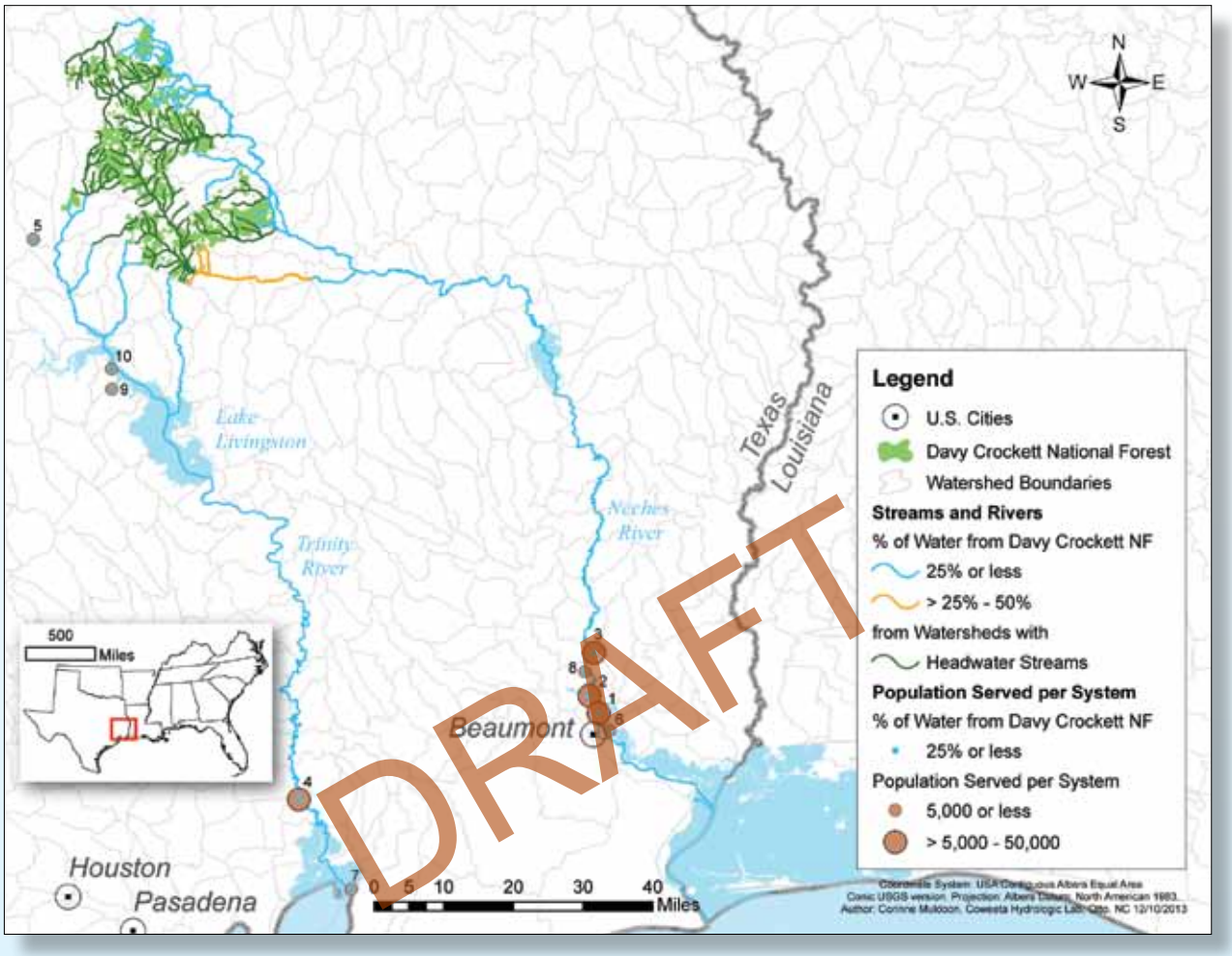
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Daniel Boone NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
85	ORMET CORPORATION		LA	65	766733	0.2%	4.9%
86	POINTE A LA HACHE W S		LA	1400	766843	0.2%	4.9%
87	PORT SULPHUR WATER DIST	1 of 2	LA	4461	766843	0.2%	4.9%
88	PORT SULPHUR WATER DIST	2 of 2	LA	4461	766896	0.2%	4.9%
89	SHELL CHEMICAL COMPANY		LA	675	766733	0.2%	4.9%
90	ST BERNARD PAR WATERWORK		LA	33000	766843	0.2%	4.9%
91	ST CHARLES WATER DIST NO 1 EB		LA	29517	766843	0.2%	4.9%
92	ST CHARLES WATER DIST NO 2 WB		LA	31485	766843	0.2%	4.9%
93	ST JAMES WATER DIST NO 1		LA	6120	766733	0.2%	4.9%
94	ST JAMES WATER DIST NO 2		LA	9000	766733	0.2%	4.9%
95	ST JOHN WATER DIST NO 1		LA	14670	766733	0.2%	4.9%
96	ST JOHN WATER DIST NO 2		LA	3702	766733	0.2%	4.9%
97	W JEFFERSON WW DIST NO 2	1 of 2	LA	104986	766843	0.2%	4.9%
98	W JEFFERSON WW DIST NO 2	2 of 2	LA	104986	766843	0.2%	4.9%
99	WESTWEGO WATERWORKS		LA	8534	766843	0.2%	4.9%
100	CARTHAGE WATER SYSTEM		TN	2718	18739	4.5%	4.5%
101	CLARKSVILLE WATER DEPARTMENT		TN	177348	24901	3.4%	3.4%
102	CUNNINGHAM EAST MONT WAT TR PL		TN	25	24799	3.4%	3.4%
103	DOVER WATER DEPT		TN	3996	27996	3.0%	3.0%
104	E.I. DUPONT, OLD HICKORY		TN	1250	20132	4.2%	4.2%
105	ERIN WATER DEPARTMENT		TN	7001	27334	3.1%	3.1%
106	GAINESBORO WATER SYSTEM		TN	1589	13385	6.3%	6.3%
107	GALLATIN WATER DEPARTMENT		TN	41083	19841	4.3%	4.3%
108	HARPETH VALLEY U D		TN	56440	22538	3.8%	3.8%
109	HARTSVILLE WATER DEPT		TN	8667	19146	4.4%	4.4%
110	HENDERSONVILLE U D		TN	49144	20132	4.2%	4.2%
111	JELLICO WATER DEPT		TN	4387	102	2.2%	2.2%
112	LEBANON WATER SYSTEM		TN	33323	19429	4.4%	4.4%
113	LIVINGSTON WATER DEPT		TN	4190	12649	6.7%	6.7%
114	MADISON SUBURBAN UD		TN	68205	22202	3.8%	3.8%
115	NASHVILLE WATER DEPT #1	1 of 2	TN	299798	22297	3.8%	3.8%
116	NASHVILLE WATER DEPT #1	2 of 2	TN	299798	22202	3.8%	3.8%
117	NORTH STEWART UTILITY DISTRICT	1 of 4	TN	1322	27996	3.0%	3.0%
118	NORTH STEWART UTILITY DISTRICT	2 of 4	TN	1322	27996	3.0%	3.0%
119	NORTH STEWART UTILITY DISTRICT	3 of 4	TN	1322	27996	3.0%	3.0%
120	NORTH STEWART UTILITY DISTRICT	4 of 4	TN	1322	27996	3.0%	3.0%
121	NORTHWEST CLAY COUNTY UTILITY		TN	3733	12539	6.7%	6.8%
122	OLD HICKORY UTILITY DISTRICT		TN	4063	20132	4.2%	4.2%
123	PLEASANT VIEW UTILITY DISTRICT		TN	13788	24542	3.4%	3.5%
124	RIVER ROAD UTILITY DISTRICT		TN	2909	22612	3.7%	3.8%
125	WATER AUTH. OF DICKSON COUNTY		TN	17100	24542	3.4%	3.5%
126	WEST WILSON UTILITY DISTRICT		TN	56990	20132	4.2%	4.2%
127	WHITE HOUSE UTILITY DISTRICT		TN	87329	20132	4.2%	4.2%

[a] This percentage includes water from Daniel Boone National Forest.

DRAFT

Davy Crockett National Forest in Texas

Davy Crockett National Forest and public water system intakes receiving water from Davy Crockett National Forest



Davy Crockett National Forest in Texas

Public water system intakes receiving water from Davy Crockett National Forest

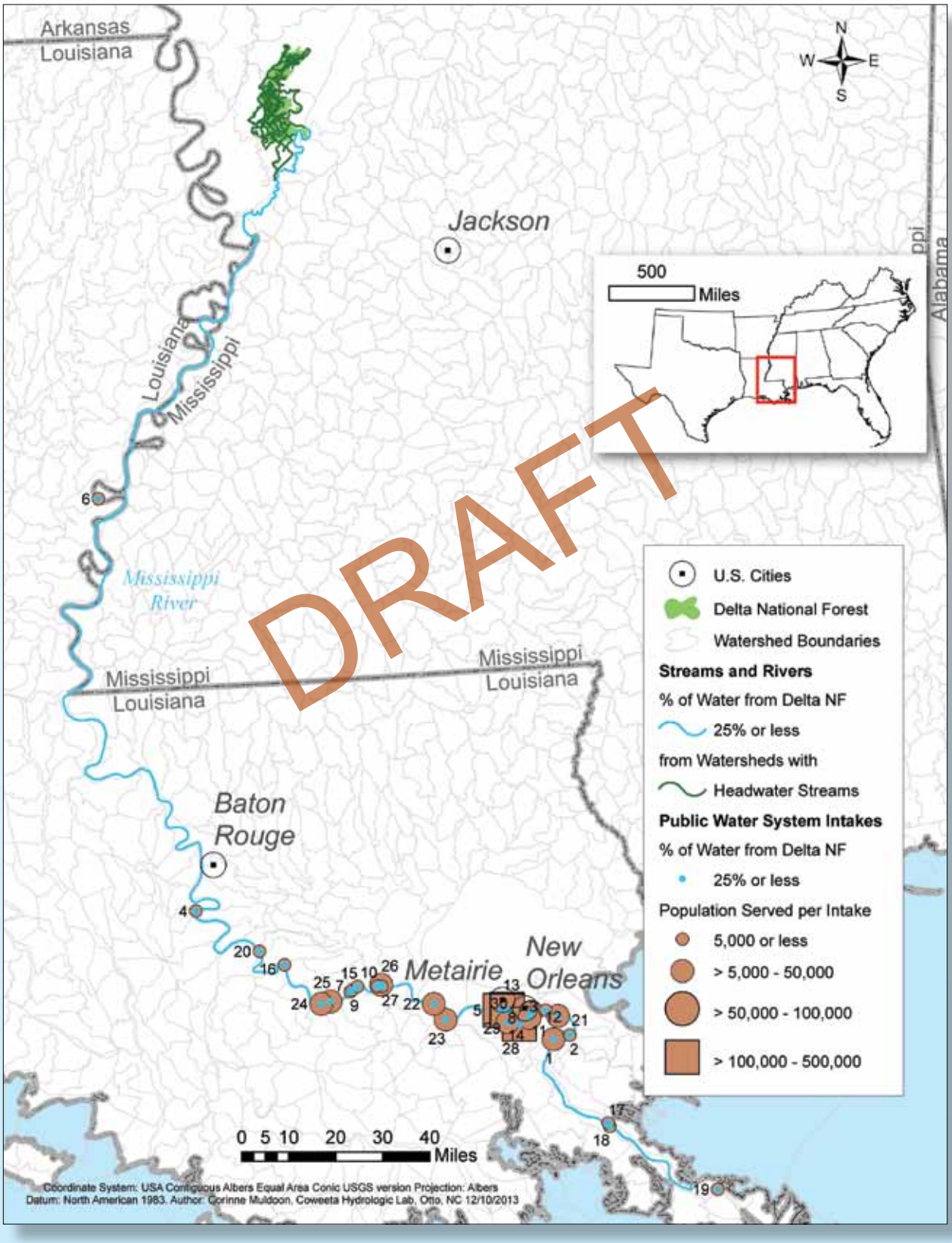
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water		
					Volume available to intake	Percent from Davy Crockett NF only	Percent from all NFS lands[a]
					millions m^3/year		
1	CITY OF BEAUMONT WATER UTILITY DEPT	1 of 3	TX	20833	11266	1.7%	8.7%
2	CITY OF BEAUMONT WATER UTILITY DEPT	2 of 3	TX	20833	10079	1.9%	3.4%
3	CITY OF BEAUMONT WATER UTILITY DEPT	3 of 3	TX	20833	10079	1.9%	9.1%
4	CITY OF HOUSTON		TX	16528	15305	0.1%	23.5%
5	CITY OF LOVELADY		TX	1140	180	8.4%	23.5%
6	CITY OF ROSE CITY		TX	729	11354	1.7%	26.1%
7	TBCD WEST TREATMENT PLANT		TX	1827	15759	0.1%	8.4%
8	TBCD WINNIE STOWELL		TX	3297	10079	1.9%	10.5%
9	WATERWOOD MUD 1	1 of 2	TX	524	13513	0.1%	36.9%
10	WATERWOOD MUD 1	2 of 2	TX	524	13513	0.1%	36.9%

[a] This percentage includes water from Davy Crockett National Forest.

DRAFT

Delta National Forest in Mississippi

Delta National Forest and public water system intakes receiving water from Delta National Forest



Delta National Forest in Mississippi

Public water system intakes receiving water from Delta National Forest

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Delta NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
1	BELLE CHASSE WATER DISTRICT		LA	17391	772384	< 0.05%	4.9%
2	DALCOUR WATERWORKS DIST		LA	2666	772384	< 0.05%	4.9%
3	DOMINO SUGAR		LA	360	772384	< 0.05%	4.9%
4	DOW USA, LA DIVISION		LA	3960	772169	< 0.05%	4.9%
5	E JEFFERSON WW DIST NO 1		LA	308362	772384	< 0.05%	4.9%
6	FERRIDAY TOWN OF		LA	3698	768603	< 0.05%	4.9%
7	GRAMERCY WATERWORKS		LA	2800	772274	< 0.05%	4.9%
8	GRETNA WATERWORKS		LA	17500	772384	< 0.05%	4.9%
9	LUTCHER WATERWORKS		LA	4781	772274	< 0.05%	4.9%
10	MARATHON PETROLEUM COMPANY LLC		LA	817	772274	< 0.05%	4.9%
11	NEW ORLEANS ALGIERS WW	1 of 2	LA	29120	772384	< 0.05%	4.9%
12	NEW ORLEANS ALGIERS WW	2 of 2	LA	29120	772384	< 0.05%	4.9%
13	NEW ORLEANS CARROLLTON WW	1 of 2	LA	214000	772384	< 0.05%	4.9%
14	NEW ORLEANS CARROLLTON WW	2 of 2	LA	214000	772384	< 0.05%	4.9%
15	NORANDA ALUMINA, LLC		LA	500	772274	< 0.05%	4.9%
16	ORMET CORPORATION		LA	65	772274	< 0.05%	4.9%
17	POINTE A LA HACHE W S		LA	1400	772384	< 0.05%	4.9%
18	PORT SULPHUR WATER DIST	1 of 2	LA	4461	772437	< 0.05%	4.9%
19	PORT SULPHUR WATER DIST	2 of 2	LA	4461	772384	< 0.05%	4.9%
20	SHELL CHEMICAL COMPANY		LA	675	772274	< 0.05%	4.9%
21	ST BERNARD PAR WATERWORK		LA	33000	772384	< 0.05%	4.9%
22	ST CHARLES WATER DIST NO 1 EB		LA	29517	772384	< 0.05%	4.9%
23	ST CHARLES WATER DIST NO 2 WB		LA	31485	772384	< 0.05%	4.9%
24	ST JAMES WATER DIST NO 1		LA	6120	772274	< 0.05%	4.9%
25	ST JAMES WATER DIST NO 2		LA	9000	772274	< 0.05%	4.9%
26	ST JOHN WATER DIST NO 1		LA	14670	772274	< 0.05%	4.9%
27	ST JOHN WATER DIST NO 2		LA	3702	772274	< 0.05%	4.9%
28	W JEFFERSON WW DIST NO 2	1 of 2	LA	104986	772384	< 0.05%	4.9%
29	W JEFFERSON WW DIST NO 2	2 of 2	LA	104986	772384	< 0.05%	4.9%
30	WESTWEGO WATERWORKS		LA	8534	772384	< 0.05%	4.9%

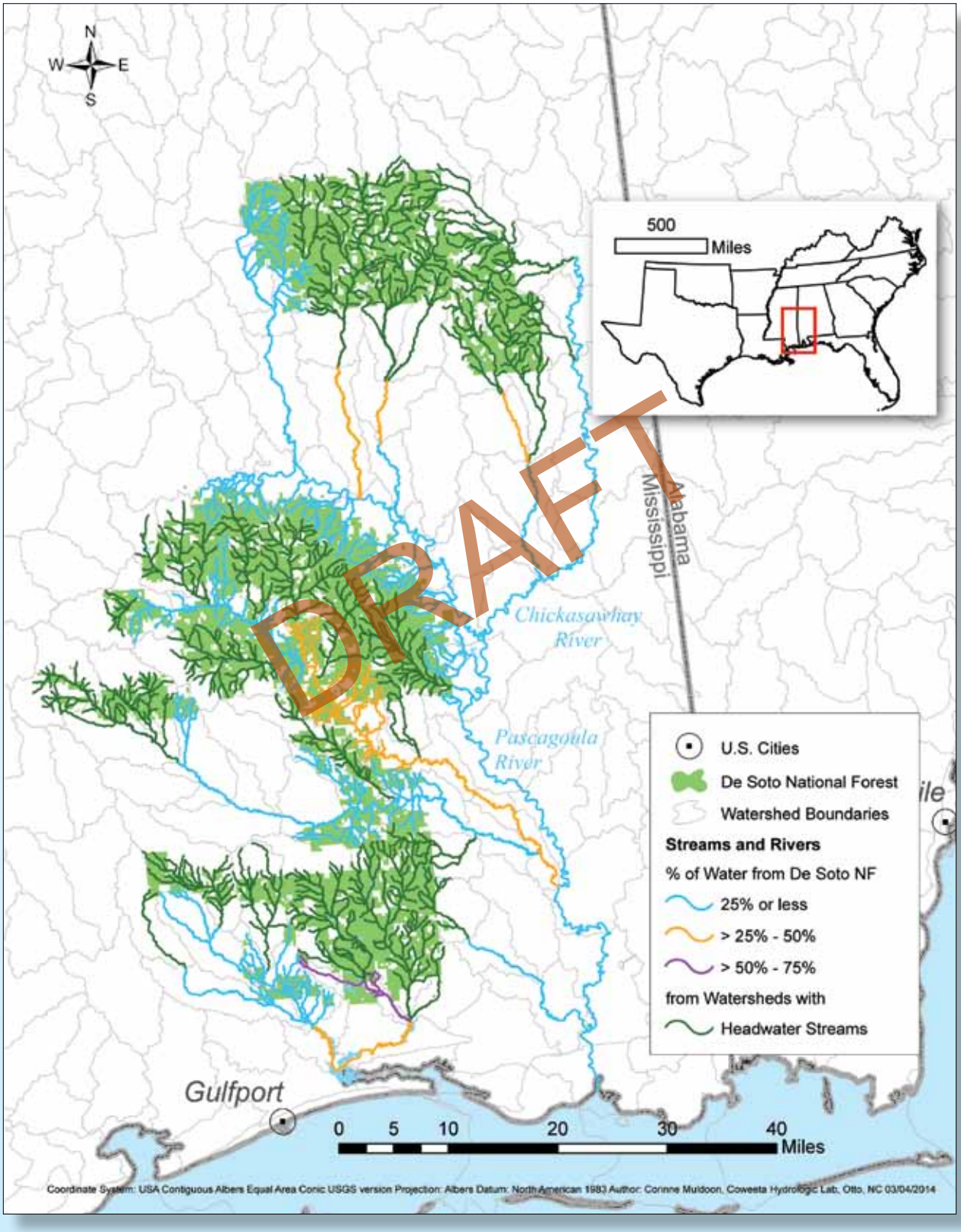
[a] This percentage includes water from Delta National Forest.

DRAFT

De Soto National Forest in Mississippi

Streams and rivers flowing from De Soto National Forest

No public water system intakes receive water from De Soto National Forest

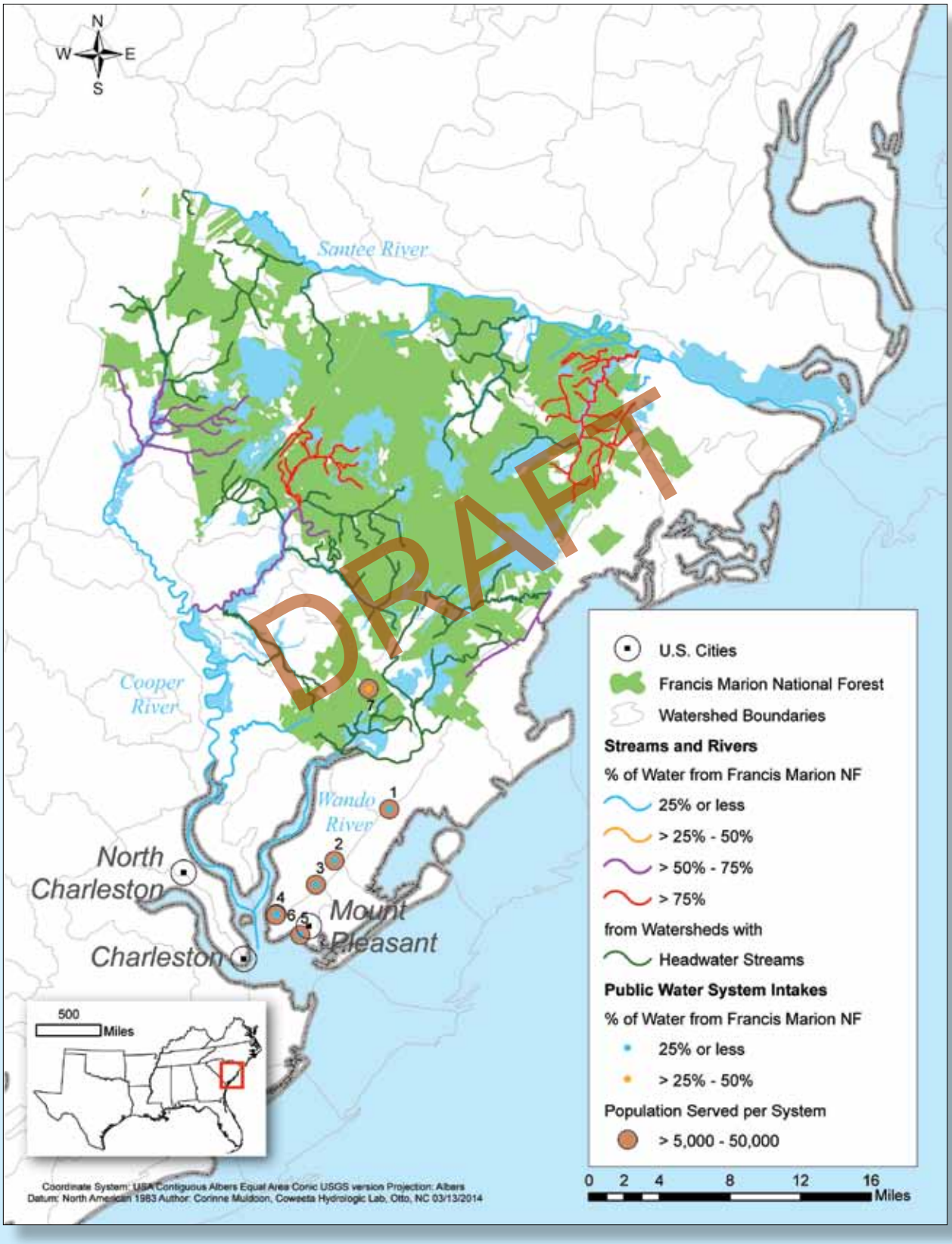


No public water system intakes receive water from De Soto National Forest; therefore, it does not have an accompanying intake summary table.

DRAFT

Francis Marion National Forest in South Carolina

Francis Marion National Forest and public water system intakes receiving water from Francis Marion National Forest



Francis Marion National Forest in South Carolina

Public water system intakes receiving water from Francis Marion National Forest

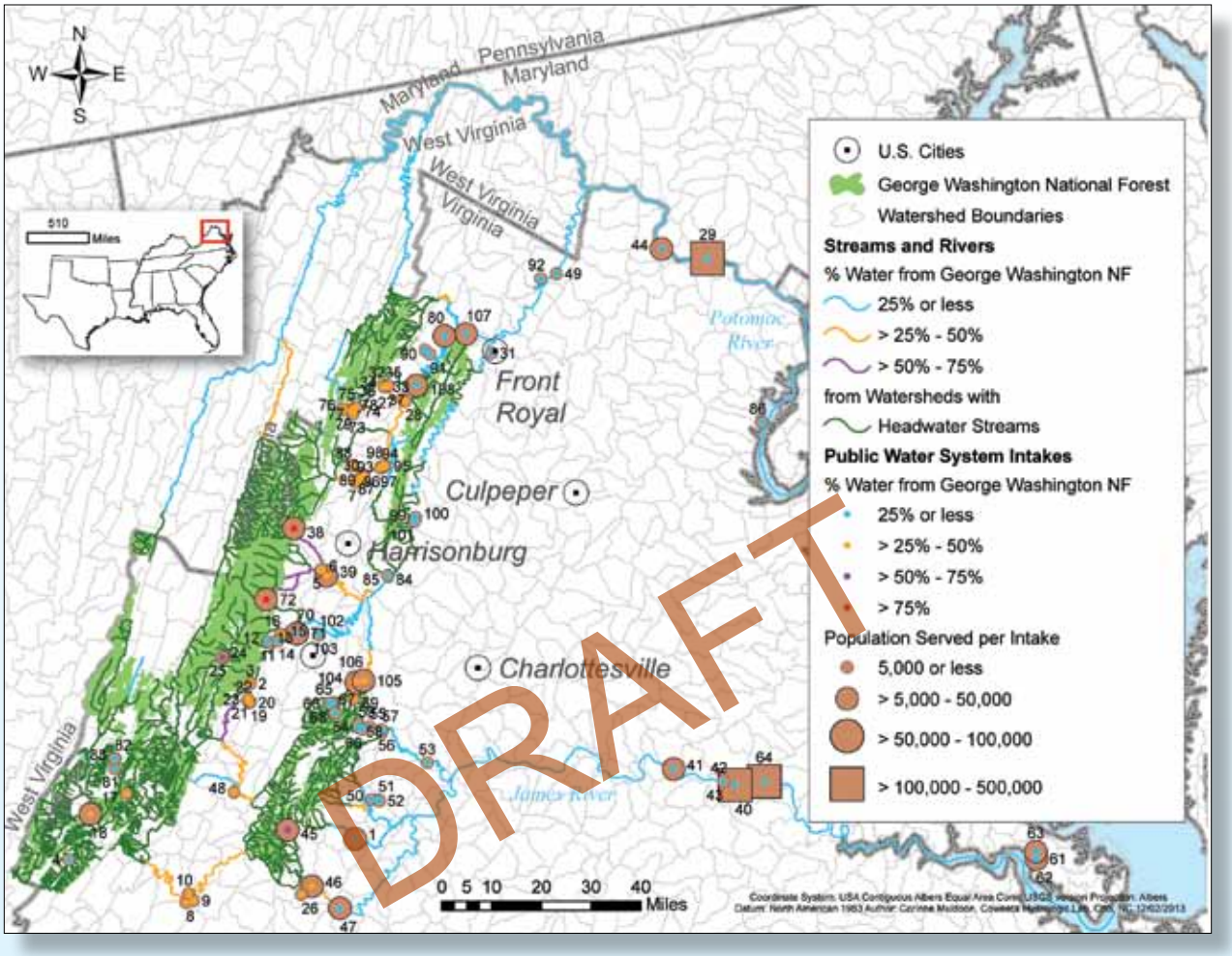
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water		
					Volume available to intake	Percent from Francis Marion NF only	Percent from all NFS lands[a]
					millions m^3/year		
1	MT PLEASANT WATER WORKS	1 of 8*	SC	6989	56	0.9%	0.9%
2	MT PLEASANT WATER WORKS	3 of 8*	SC	6989	108	17.8%	18.0%
3	MT PLEASANT WATER WORKS	4 of 8*	SC	6989	108	17.8%	18.0%
4	MT PLEASANT WATER WORKS	5 of 8*	SC	6989	819	18.0%	18.1%
5	MT PLEASANT WATER WORKS	6 of 8*	SC	6989	819	18.0%	18.1%
6	MT PLEASANT WATER WORKS	7 of 8*	SC	6989	819	18.0%	18.1%
7	MT PLEASANT WATER WORKS	8 of 8*	SC	6989	51	37.5%	37.5%

[a] This percentage includes water from Francis Marion National Forest.
* Public water system had eight intakes but only seven of them were in or downstream of the Francis Marion National Forest.

DRAFT

George Washington National Forest in Virginia

George Washington National Forest and public water system intakes receiving water from George Washington National Forest



George Washington National Forest in Virginia

Public water system intakes receiving water from George Washington National Forest (1 of 3 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from George Washington NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
1	AMHERST, TOWN OF		VA	5076	109	12.7%	12.9%
2	AUGUSTA SPRINGS - ACSA	1 of 2	VA	137	52	42.6%	42.7%
3	AUGUSTA SPRINGS - ACSA	2 of 2	VA	137	52	42.6%	42.7%
4	BOILING SPRING ELEMENTARY SCHOOL		VA	200	155	22.8%	55.2%
5	BRIDGEWATER, TOWN OF	1 of 2	VA	2822	391	44.6%	44.6%
6	BRIDGEWATER, TOWN OF	2 of 2	VA	2822	391	44.6%	44.6%
7	BROADWAY, TOWN OF		VA	1224	194	48.3%	48.3%
8	BUCHANAN, TOWN OF	1 of 3	VA	308	2091	26.7%	42.5%
9	BUCHANAN, TOWN OF	2 of 3	VA	308	2091	26.7%	42.5%
10	BUCHANAN, TOWN OF	3 of 3	VA	308	2091	26.7%	42.5%
11	CHURCHVILLE - ACSA	1 of 6	VA	185	90	13.9%	14.0%
12	CHURCHVILLE - ACSA	2 of 6	VA	185	90	13.9%	14.0%
13	CHURCHVILLE - ACSA	3 of 6	VA	185	90	13.9%	14.0%
14	CHURCHVILLE - ACSA	4 of 6	VA	185	90	13.9%	14.0%
15	CHURCHVILLE - ACSA	5 of 6	VA	185	125	25.1%	25.1%
16	CHURCHVILLE - ACSA	6 of 6	VA	185	125	25.1%	25.1%
17	CLIFTON FORGE, TOWN OF		VA	4679	930	37.1%	42.6%
18	COVINGTON, CITY OF		VA	7300	643	38.2%	38.3%
19	CRAIGSVILLE, TOWN OF	1 of 5	VA	468	52	42.6%	42.7%
20	CRAIGSVILLE, TOWN OF	2 of 5	VA	468	52	42.6%	42.7%
21	CRAIGSVILLE, TOWN OF	3 of 5	VA	468	52	42.6%	42.7%
22	CRAIGSVILLE, TOWN OF	4 of 5	VA	468	52	42.6%	42.7%
23	CRAIGSVILLE, TOWN OF	5 of 5	VA	468	52	42.6%	42.7%
24	DEERFIELD - ACSA	1 of 2	VA	70	21	73.6%	73.7%
25	DEERFIELD - ACSA	2 of 2	VA	70	21	73.6%	73.7%
26	EAGLE EYRIE BAPTIST CONFERENCE CENTER		VA	1000	3362	25.8%	37.4%
27	EDINBURG, TOWN OF	1 of 2	VA	521	88	31.4%	31.4%
28	EDINBURG, TOWN OF	2 of 2	VA	521	88	31.4%	31.4%
29	FAIRFAX COUNTY WATER AUTHORITY		VA	205804	10989	6.1%	7.7%
30	FOOD PROCESSORS WATER COOPERATIVE, INC		VA	1430	277	33.9%	33.9%
31	FRONT ROYAL, TOWN OF		VA	5000	1593	19.0%	19.0%
32	GEORGE`S CHICKEN, LLC	1 of 6	VA	126	88	31.4%	31.4%
33	GEORGE`S CHICKEN, LLC	2 of 6	VA	126	88	31.4%	31.4%
34	GEORGE`S CHICKEN, LLC	3 of 6	VA	126	88	31.4%	31.4%
35	GEORGE`S CHICKEN, LLC	4 of 6	VA	126	88	31.4%	31.4%
36	GEORGE`S CHICKEN, LLC	5 of 6	VA	126	88	31.4%	31.4%
37	GEORGE`S CHICKEN, LLC	6 of 6	VA	126	88	31.4%	31.4%
38	HARRISONBURG, CITY OF	1 of 2	VA	16305	391	44.6%	44.6%
39	HARRISONBURG, CITY OF	2 of 2	VA	16305	76	88.4%	88.4%

(Continued)

DRAFT

George Washington National Forest in Virginia

(Continued) Public water system intakes receiving water from George Washington National Forest (2 of 3 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from George Washington NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
40	HENRICO COUNTY WATER SYSTEM		VA	144500	6715	14.0%	19.9%
41	JAMES RIVER CORRECTIONAL CTR		VA	6902	6505	14.5%	20.5%
42	JAMES RIVER ESTATES	1 of 2	VA	44	6621	14.2%	20.2%
43	JAMES RIVER ESTATES	2 of 2	VA	44	6621	14.2%	20.2%
44	LEESBURG, TOWN OF		VA	23150	10253	6.6%	8.2%
45	LYNCHBURG, CITY OF	1 of 3	VA	25333	3524	24.6%	35.7%
46	LYNCHBURG, CITY OF	2 of 3	VA	25333	3362	25.8%	37.4%
47	LYNCHBURG, CITY OF	3 of 3	VA	25333	73	56.3%	56.3%
48	MAURY SERVICE AUTHORITY		VA	25	536	32.3%	32.3%
49	MOUNT WEATHER		VA	50	2693	19.0%	19.0%
50	NCSA - LOVINGSTON	1 of 3	VA	356	130	20.9%	20.9%
51	NCSA - LOVINGSTON	2 of 3	VA	356	241	24.7%	24.7%
52	NCSA - LOVINGSTON	3 of 3	VA	356	241	24.7%	24.7%
53	NCSA - SCHUYLER		VA	480	240	1.3%	1.3%
54	NCSA - WINTERGREEN	1 of 7	VA	959	103	3.1%	3.1%
55	NCSA - WINTERGREEN	2 of 7	VA	959	103	3.1%	3.1%
56	NCSA - WINTERGREEN	3 of 7	VA	959	103	3.1%	3.1%
57	NCSA - WINTERGREEN	4 of 7	VA	959	103	3.1%	3.1%
58	NCSA - WINTERGREEN	5 of 7	VA	959	103	3.1%	3.1%
59	NCSA - WINTERGREEN	6 of 7	VA	959	103	3.1%	3.1%
60	NCSA - WINTERGREEN	7 of 7	VA	959	103	3.1%	3.1%
61	NEWPORT NEWS, CITY OF	1 of 3	VA	33833	9599	9.8%	13.9%
62	NEWPORT NEWS, CITY OF	2 of 3	VA	33833	9599	9.8%	13.9%
63	NEWPORT NEWS, CITY OF	3 of 3	VA	33833	9599	9.8%	13.9%
64	RICHMOND, CITY OF		VA	197000	6759	14.0%	19.8%
65	SOUTH RIVER SANITARY DISTRICT	1 of 5	VA	4503	85	24.9%	24.9%
66	SOUTH RIVER SANITARY DISTRICT	2 of 5	VA	4503	85	24.9%	24.9%
67	SOUTH RIVER SANITARY DISTRICT	3 of 5	VA	4503	85	24.9%	24.9%
68	SOUTH RIVER SANITARY DISTRICT	4 of 5	VA	4503	85	24.9%	24.9%
69	SOUTH RIVER SANITARY DISTRICT	5 of 5	VA	4503	139	35.4%	35.4%
70	STAUNTON, CITY OF	1 of 3	VA	7915	161	21.3%	21.3%
71	STAUNTON, CITY OF	2 of 3	VA	7915	161	21.3%	21.3%
72	STAUNTON, CITY OF	3 of 3	VA	7915	42	99.6%	99.6%
73	STONEY CREEK SANITARY DISTRICT	1 of 7	VA	326	40	37.6%	37.7%
74	STONEY CREEK SANITARY DISTRICT	2 of 7	VA	326	40	37.6%	37.7%
75	STONEY CREEK SANITARY DISTRICT	3 of 7	VA	326	40	37.6%	37.7%

DRAFT

(Continued)

George Washington National Forest in Virginia

(Continued) Public water system intakes receiving water from George Washington National Forest (3 of 3 pages)

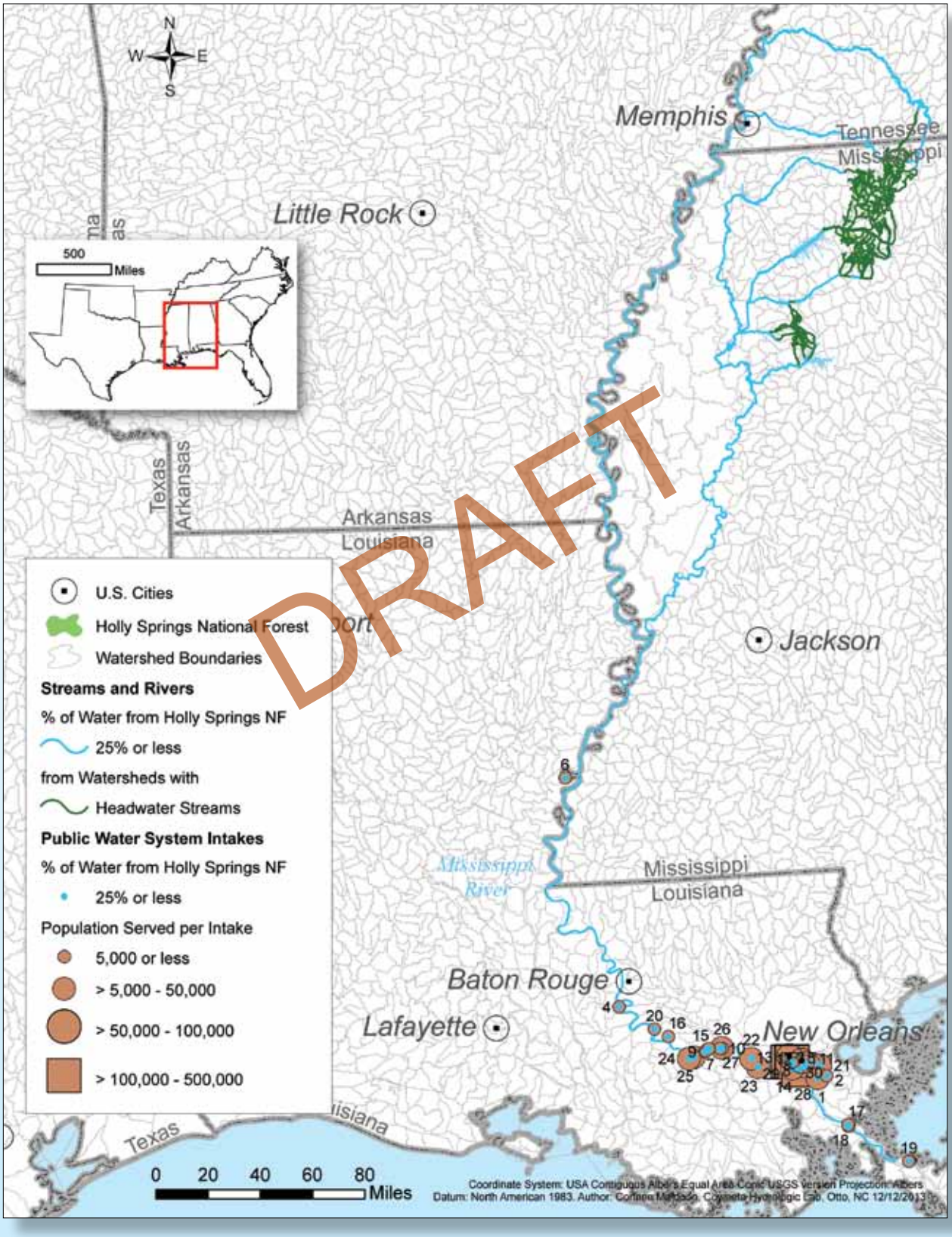
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from George Washington NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
76	STONEY CREEK SANITARY DISTRICT	4 of 7	VA	326	40	37.6%	37.7%
77	STONEY CREEK SANITARY DISTRICT	5 of 7	VA	326	40	37.6%	37.7%
78	STONEY CREEK SANITARY DISTRICT	6 of 7	VA	326	40	37.6%	37.7%
79	STONEY CREEK SANITARY DISTRICT	7 of 7	VA	326	40	37.6%	37.7%
80	STRASBURG, TOWN OF		VA	6398	626	22.6%	22.6%
81	THE HOMESTEAD WATER COMPANY	1 of 3	VA	686	37	21.7%	21.7%
82	THE HOMESTEAD WATER COMPANY	2 of 3	VA	686	37	21.7%	21.7%
83	THE HOMESTEAD WATER COMPANY	3 of 3	VA	686	37	21.7%	21.7%
84	THREE SPRINGS REGIONAL - RCPW	1 of 2	VA	4355	1063	24.3%	24.3%
85	THREE SPRINGS REGIONAL - RCPW	2 of 2	VA	4355	1063	24.3%	24.3%
86	TIM`S RIVERSHORE RESTAURANT		VA	585	12975	5.2%	6.5%
87	TIMBERVILLE, TOWN OF	1 of 3	VA	700	277	33.9%	33.9%
88	TIMBERVILLE, TOWN OF	2 of 3	VA	700	277	33.9%	33.9%
89	TIMBERVILLE, TOWN OF	3 of 3	VA	700	277	33.9%	33.9%
90	TOMS BROOK-MAURERTOWN SANITARY DISTRICT	1 of 2	VA	921	597	23.6%	23.6%
91	TOMS BROOK-MAURERTOWN SANITARY DISTRICT	2 of 2	VA	921	597	23.6%	23.6%
92	TOWN OF BERRYVILLE		VA	4185	2619	19.5%	19.5%
93	TOWN OF NEW MARKET	1 of 6	VA	333	277	33.9%	33.9%
94	TOWN OF NEW MARKET	2 of 6	VA	333	277	33.9%	33.9%
95	TOWN OF NEW MARKET	3 of 6	VA	333	277	33.9%	33.9%
96	TOWN OF NEW MARKET	4 of 6	VA	333	277	33.9%	33.9%
97	TOWN OF NEW MARKET	5 of 6	VA	333	277	33.9%	33.9%
98	TOWN OF NEW MARKET	6 of 6	VA	333	277	33.9%	33.9%
99	TOWN OF SHENANDOAH	1 of 3	VA	778	1266	21.1%	21.1%
100	TOWN OF SHENANDOAH	2 of 3	VA	778	1266	21.1%	21.1%
101	TOWN OF SHENANDOAH	3 of 3	VA	778	1266	21.1%	21.1%
102	VERONA SANITARY DISTRICT - ACSA	1 of 2	VA	1788	318	10.7%	10.8%
103	VERONA SANITARY DISTRICT - ACSA	2 of 2	VA	1788	318	10.7%	10.8%
104	WAYNESBORO, CITY OF	1 of 3	VA	7002	199	25.0%	25.0%
105	WAYNESBORO, CITY OF	2 of 3	VA	7002	199	25.0%	25.0%
106	WAYNESBORO, CITY OF	3 of 3	VA	7002	199	25.0%	25.0%
107	WINCHESTER, CITY OF		VA	28248	845	24.8%	24.8%
108	WOODSTOCK, TOWN OF		VA	5070	577	24.3%	24.3%

[a] This percentage includes water from George Washington National Forest.

DRAFT

Holly Springs National Forest in Mississippi

Holly Springs National Forest and public water system intakes receiving water from Holly Springs National Forest



Holly Springs National Forest in Mississippi

Public water system intakes receiving water from Holly Springs National Forest

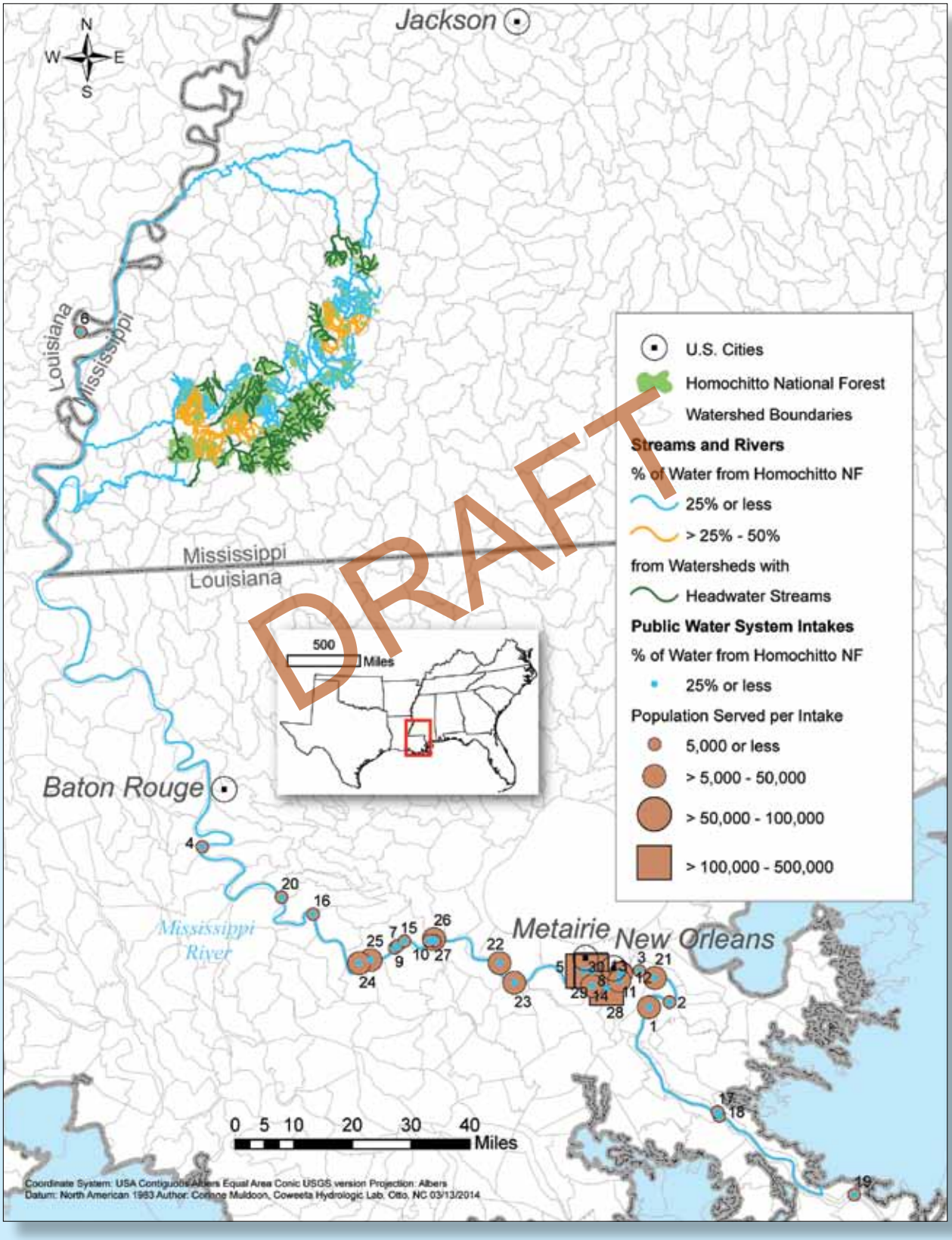
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Holly Springs NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
1	BELLE CHASSE WATER DISTRICT		LA	17391	772371	0.1%	4.9%
2	DALCOUR WATERWORKS DIST		LA	2666	772371	0.1%	4.9%
3	DOMINO SUGAR		LA	360	772371	0.1%	4.9%
4	DOW USA, LA DIVISION		LA	3960	772156	0.1%	4.9%
5	E JEFFERSON WW DIST NO 1		LA	308362	772371	0.1%	4.9%
6	FERRIDAY TOWN OF		LA	3698	768589	0.1%	4.9%
7	GRAMERCY WATERWORKS		LA	2800	772261	0.1%	4.9%
8	GRETNA WATERWORKS		LA	17500	772371	0.1%	4.9%
9	LUTCHER WATERWORKS		LA	4781	772261	0.1%	4.9%
10	MARATHON PETROLEUM COMPANY LLC		LA	817	772261	0.1%	4.9%
11	NEW ORLEANS ALGIERS WW	1 of 2	LA	29120	772371	0.1%	4.9%
12	NEW ORLEANS ALGIERS WW	2 of 2	LA	29120	772371	0.1%	4.9%
13	NEW ORLEANS CARROLLTON WW	1 of 2	LA	214000	772371	0.1%	4.9%
14	NEW ORLEANS CARROLLTON WW	2 of 2	LA	214000	772371	0.1%	4.9%
15	NORANDA ALUMINA, LLC		LA	500	772261	0.1%	4.9%
16	ORMET CORPORATION		LA	65	772261	0.1%	4.9%
17	POINTE A LA HACHE W S		LA	1400	772371	0.1%	4.9%
18	PORT SULPHUR WATER DIST	1 of 2	LA	4461	772424	0.1%	4.9%
19	PORT SULPHUR WATER DIST	2 of 2	LA	4461	772371	0.1%	4.9%
20	SHELL CHEMICAL COMPANY		LA	675	772261	0.1%	4.9%
21	ST BERNARD PAR WATERWORK		LA	33000	772371	0.1%	4.9%
22	ST CHARLES WATER DIST NO 1 EB		LA	29517	772371	0.1%	4.9%
23	ST CHARLES WATER DIST NO 2 WB		LA	31485	772371	0.1%	4.9%
24	ST JAMES WATER DIST NO 1		LA	6120	772261	0.1%	4.9%
25	ST JAMES WATER DIST NO 2		LA	9000	772261	0.1%	4.9%
26	ST JOHN WATER DIST NO 1		LA	14670	772261	0.1%	4.9%
27	ST JOHN WATER DIST NO 2		LA	3702	772261	0.1%	4.9%
28	W JEFFERSON WW DIST NO 2	1 of 2	LA	104986	772371	0.1%	4.9%
29	W JEFFERSON WW DIST NO 2	2 of 2	LA	104986	772371	0.1%	4.9%
30	WESTWEGO WATERWORKS		LA	8534	772371	0.1%	4.9%

[a] This percentage includes water from Holly Springs National Forest.

DRAFT

Homochitto National Forest in Mississippi

Homochitto National Forest and public water system intakes receiving water from Homochitto National Forest



Homochitto National Forest in Mississippi

Public water system intakes receiving water from Homochitto National Forest

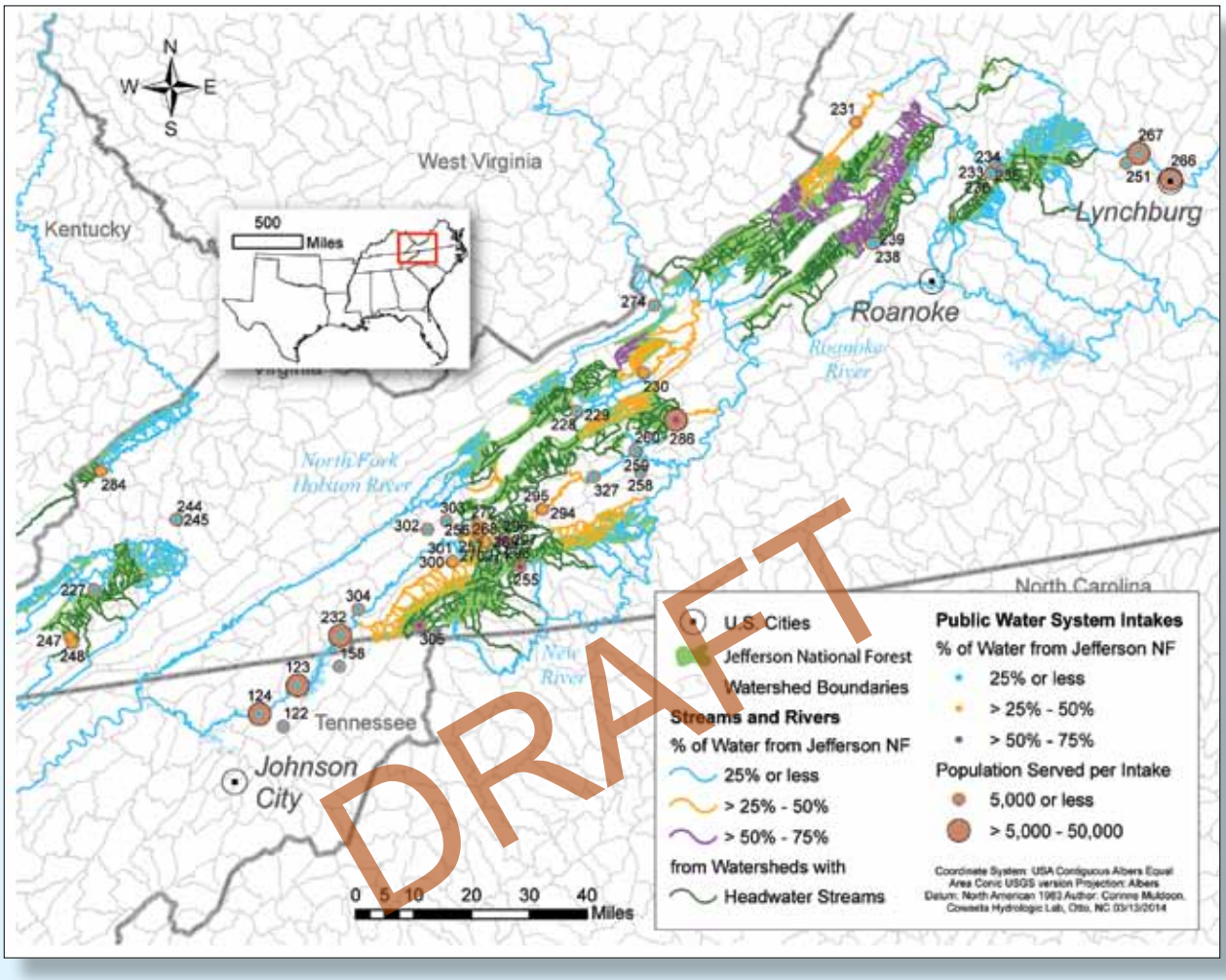
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Homochitto NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
1	BELLE CHASSE WATER DISTRICT		LA	17391	766843	< 0.05%	4.9%
2	DALCOUR WATERWORKS DIST		LA	2666	766843	< 0.05%	4.9%
3	DOMINO SUGAR		LA	360	766843	< 0.05%	4.9%
4	DOW USA, LA DIVISION		LA	3960	766628	< 0.05%	4.9%
5	E JEFFERSON WW DIST NO 1		LA	308362	766843	< 0.05%	4.9%
6	FERRIDAY TOWN OF		LA	3698	763064	< 0.05%	4.9%
7	GRAMERCY WATERWORKS		LA	2800	766733	< 0.05%	4.9%
8	GRETNA WATERWORKS		LA	17500	766843	< 0.05%	4.9%
9	LUTCHER WATERWORKS		LA	4781	766733	< 0.05%	4.9%
10	MARATHON PETROLEUM COMPANY LLC		LA	817	766733	< 0.05%	4.9%
11	NEW ORLEANS ALGIERS WW	1 of 2	LA	29120	766843	< 0.05%	4.9%
12	NEW ORLEANS ALGIERS WW	2 of 2	LA	29120	766843	< 0.05%	4.9%
13	NEW ORLEANS CARROLLTON WW	1 of 2	LA	214000	766843	< 0.05%	4.9%
14	NEW ORLEANS CARROLLTON WW	2 of 2	LA	214000	766843	< 0.05%	4.9%
15	NORANDA ALUMINA, LLC		LA	500	766733	< 0.05%	4.9%
16	ORMET CORPORATION		LA	65	766733	< 0.05%	4.9%
17	POINTE A LA HACHE W S		LA	1400	766843	< 0.05%	4.9%
18	PORT SULPHUR WATER DIST	1 of 2	LA	4461	766843	< 0.05%	4.9%
19	PORT SULPHUR WATER DIST	2 of 2	LA	4461	766896	< 0.05%	4.9%
20	SHELL CHEMICAL COMPANY		LA	675	766733	< 0.05%	4.9%
21	ST BERNARD PAR WATERWORK		LA	33000	766843	< 0.05%	4.9%
22	ST CHARLES WATER DIST NO 1 EB		LA	29517	766843	< 0.05%	4.9%
23	ST CHARLES WATER DIST NO 2 WB		LA	31485	766843	< 0.05%	4.9%
24	ST JAMES WATER DIST NO 1		LA	6120	766733	< 0.05%	4.9%
25	ST JAMES WATER DIST NO 2		LA	9000	766733	< 0.05%	4.9%
26	ST JOHN WATER DIST NO 1		LA	14670	766733	< 0.05%	4.9%
27	ST JOHN WATER DIST NO 2		LA	3702	766733	< 0.05%	4.9%
28	W JEFFERSON WW DIST NO 2	1 of 2	LA	104986	766843	< 0.05%	4.9%
29	W JEFFERSON WW DIST NO 2	2 of 2	LA	104986	766843	< 0.05%	4.9%
30	WESTWEGO WATERWORKS		LA	8534	766843	< 0.05%	4.9%

[a] This percentage includes water from Homochitto National Forest.

DRAFT

Jefferson National Forest in Virginia

Jefferson National Forest and public water system intakes receiving more than 10% annual water supply from Jefferson National Forest



Jefferson National Forest in Virginia

Public water system intakes receiving water from Jefferson National Forest (1 of 9 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Jefferson NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
1	ALBERTVILLE UTILITIES BOARD		AL	30186	33758	1.0%	13.8%
2	ARAB WATER WORKS BOARD		AL	17576	34017	1.0%	13.7%
3	BRIDGEPORT UTILITIES BOARD		AL	6000	31495	1.1%	14.7%
4	CHEROKEE WATER & GAS DEPARTMENT		AL	2250	44337	0.8%	10.6%
5	COLBERT COUNTY RURAL WATER SYSTEM		AL	10731	44235	0.8%	10.6%
6	DECATUR (MUNICIPAL UTILITIES BOARD OF)		AL	77100	37784	0.9%	12.4%
7	DEKALB-JACKSON WATER SUPPLY DISTRICT		AL	40	31714	1.1%	14.6%
8	FLORENCE WATER-WASTEWATER DEPARTMENT	1 of 2	AL	16725	43340	0.8%	10.8%
9	FLORENCE WATER-WASTEWATER DEPARTMENT	2 of 2	AL	16725	43340	0.8%	10.8%
10	FORT PAYNE WATER WORKS BOARD		AL	7248	32805	1.1%	14.2%
11	GREENHILL WATER & FIRE PRO AUTHORITY	1 of 2	AL	3855	43340	0.8%	10.8%
12	GREENHILL WATER & FIRE PRO AUTHORITY	2 of 2	AL	3855	43340	0.8%	10.8%
13	GUNTERSVILLE WATER WORKS & SEWER BOARD	1 of 2	AL	6375	34017	1.0%	13.7%
14	GUNTERSVILLE WATER WORKS & SEWER BOARD	2 of 2	AL	6375	34017	1.0%	13.7%
15	HUNTSVILLE UTILITIES	1 of 2	AL	31310	36904	0.9%	12.6%
16	HUNTSVILLE UTILITIES	2 of 2	AL	31310	35738	1.0%	13.0%
17	LIMESTONE COUNTY WATER SYSTEM		AL	14625	37977	0.9%	12.3%
18	NORTH MARSHALL UTILITIES	1 of 2	AL	6185	34017	1.0%	13.7%
19	NORTH MARSHALL UTILITIES	2 of 2	AL	6185	34017	1.0%	13.7%
20	NORTHEAST ALABAMA WATER SYSTEM	1 of 3	AL	9375	33758	1.0%	13.8%
21	NORTHEAST ALABAMA WATER SYSTEM	2 of 3	AL	9375	32805	1.1%	14.2%
22	NORTHEAST ALABAMA WATER SYSTEM	3 of 3	AL	9375	32805	1.1%	14.2%
23	SCOTTSBORO WATER WORKS	1 of 2	AL	10950	32805	1.1%	14.2%
24	SCOTTSBORO WATER WORKS	2 of 2	AL	10950	32805	1.1%	14.2%
25	SECTION-DUTTON WATER SYSTEM		AL	32682	32805	1.1%	14.2%
26	SHEFFIELD UTILITIES DEPARTMENT		AL	14574	44235	0.8%	10.6%
27	US ARMY AVIATION & MISSILE COMMAND	1 of 2	AL	14250	35738	1.0%	13.0%
28	US ARMY AVIATION & MISSILE COMMAND	2 of 2	AL	14250	35738	1.0%	13.0%
29	WEST MORGAN-EAST LAWRENCE WATER AUTHORIT		AL	26130	38111	0.9%	12.3%
30	WISE ALLOYS LLC WATER SYSTEM		AL	2400	43340	0.8%	10.8%
31	ALBANY WATER WORKS		KY	7351	9744	< 0.05%	8.7%
32	ASHLAND WATER WORKS		KY	44402	89807	0.6%	5.4%
33	BARKLEY LAKE WATER DISTRICT		KY	16038	29482	< 0.05%	3.4%
34	BENHAM WATER PLANT		KY	1055	160	1.0%	1.0%
35	BLACK MTN UTILITY/WALLINS		KY	1485	682	0.2%	0.2%
36	BURKESVILLE WATER WORKS		KY	3219	10075	< 0.05%	8.4%

(Continued)

DRAFT

Jefferson National Forest in Virginia

(Continued) Public water system intakes receiving water from Jefferson National Forest (2 of 9 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Jefferson NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
37	BURNSIDE WATER COMPANY		KY	2284	8120	< 0.05%	10.5%
38	CRITTENDEN-LIVINGSTON CO WATER DISTRICT		KY	9079	30309	< 0.05%	3.6%
39	CUMBERLAND MUNICIPAL WATER WORKS		KY	3478	92	1.8%	1.8%
40	EDDYVILLE WATER DEPARTMENT	1 of 2	KY	1839	29832	< 0.05%	3.6%
41	EDDYVILLE WATER DEPARTMENT	2 of 2	KY	1839	29832	< 0.05%	3.6%
42	HARDIN CO. WATER DIST #1/FT. KNOX	1 of 2	KY	8480	137706	0.4%	4.2%
43	HARDIN CO. WATER DIST #1/FT. KNOX	2 of 2	KY	8480	137706	0.4%	4.2%
44	HARDIN COUNTY WATER DISTRICT #1		KY	9900	137706	0.4%	4.2%
45	HARLAN MUNICIPAL WATER WORKS		KY	6534	602	0.3%	0.3%
46	HENDERSON MUNICIPAL WATER & SEWER		KY	31696	158419	0.4%	3.8%
47	JAMESTOWN MUNICIPAL WATER WORKS		KY	10799	9591	< 0.05%	8.8%
48	KENTUCKY STATE PENITENTIARY		KY	1000	29832	< 0.05%	3.6%
49	KNOX COUNTY UTILITY COMMISSION		KY	7948	1279	0.1%	0.1%
50	KUTTAWA WATER DEPARTMENT		KY	853	29922	< 0.05%	3.6%
51	LOUISA WATER DEPARTMENT		KY	7511	3065	1.4%	1.4%
52	LOUISVILLE WATER COMPANY	1 of 2	KY	365306	132027	0.4%	4.4%
53	LOUISVILLE WATER COMPANY	2 of 2	KY	365306	132027	0.4%	4.4%
54	LYNCH WATER WORKS		KY	1188	160	1.0%	1.0%
55	MAYSVILLE UTILITY COMMISSION		KY	15548	101543	0.5%	4.9%
56	MONTICELLO WATER & SEWER COMMISSION		KY	23166	8720	< 0.05%	9.7%
57	MORGANFIELD WATER WORKS		KY	5495	158638	0.3%	3.8%
58	MOUNTAIN WATER DIST #1 MARROW BONE		KY	48518	953	4.4%	4.5%
59	NORTHERN KENTUCKY WATER SERVICE		KY	67221	102928	0.5%	4.8%
60	PADUCAH WATER WORKS	1 of 5	KY	8002	297413	0.3%	4.2%
61	PADUCAH WATER WORKS	2 of 5	KY	8002	58004	0.6%	8.3%
62	PADUCAH WATER WORKS	3 of 5	KY	8002	58004	0.6%	8.3%
63	PADUCAH WATER WORKS	4 of 5	KY	8002	58004	0.6%	8.3%
64	PADUCAH WATER WORKS	5 of 5	KY	8002	58004	0.6%	8.3%
65	PIKEVILLE WATER DEPARTMENT		KY	10692	1740	2.4%	2.4%
66	PRESTONSBURG CITY UTILITIES		KY	21512	2284	1.8%	1.9%
67	PRINCETON WATER & SEWER COMMISSION		KY	10288	29832	< 0.05%	3.6%
68	RUSSELL WATER COMPANY		KY	7425	89992	0.6%	5.4%
69	SOMERSET WATER SERVICE		KY	29700	8657	< 0.05%	9.8%
70	SOUTHERN WATER & SEWER DISTRICT		KY	22480	1844	2.3%	2.3%
71	STURGIS WATER WORKS		KY	3677	207542	0.3%	3.1%
72	US ENRICHMENT CORP		KY	2000	297779	0.3%	4.2%

(Continued)

DRAFT

Jefferson National Forest in Virginia

(Continued) Public water system intakes receiving water from Jefferson National Forest (3 of 9 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Jefferson NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
73	WILLIAMSBURG WATER DEPARTMENT		KY	5474	2640	0.1%	0.3%
74	BELLE CHASSE WATER DISTRICT		LA	17391	766843	0.1%	4.9%
75	DALCOUR WATERWORKS DIST		LA	2666	766843	0.1%	4.9%
76	DOMINO SUGAR		LA	360	766843	0.1%	4.9%
77	DOW USA, LA DIVISION		LA	3960	766628	0.1%	4.9%
78	E JEFFERSON WW DIST NO 1		LA	308362	766843	0.1%	4.9%
79	FERRIDAY TOWN OF		LA	3698	763064	0.1%	4.9%
80	GRAMERCY WATERWORKS		LA	2800	766733	0.1%	4.9%
81	GRETNA WATERWORKS		LA	17500	766843	0.1%	4.9%
82	LUTCHER WATERWORKS		LA	4781	766733	0.1%	4.9%
83	MARATHON PETROLEUM COMPANY LLC		LA	817	766733	0.1%	4.9%
84	NEW ORLEANS ALGIERS WW	1 of 2	LA	29120	766843	0.1%	4.9%
85	NEW ORLEANS ALGIERS WW	2 of 2	LA	29120	766843	0.1%	4.9%
86	NEW ORLEANS CARROLLTON WW	1 of 2	LA	214000	766843	0.1%	4.9%
87	NEW ORLEANS CARROLLTON WW	2 of 2	LA	214000	766843	0.1%	4.9%
88	NORANDA ALUMINA, LLC		LA	500	766733	0.1%	4.9%
89	ORMET CORPORATION		LA	65	766733	0.1%	4.9%
90	POINTE A LA HACHE W S		LA	1400	766843	0.1%	4.9%
91	PORT SULPHUR WATER DIST	1 of 2	LA	4461	766896	0.1%	4.9%
92	PORT SULPHUR WATER DIST	2 of 2	LA	4461	766843	0.1%	4.9%
93	SHELL CHEMICAL COMPANY		LA	675	766733	0.1%	4.9%
94	ST BERNARD PAR WATERWORK		LA	33000	766843	0.1%	4.9%
95	ST CHARLES WATER DIST NO 1 EB		LA	29517	766843	0.1%	4.9%
96	ST CHARLES WATER DIST NO 2 WB		LA	31485	766843	0.1%	4.9%
97	ST JAMES WATER DIST NO 1		LA	6120	766733	0.1%	4.9%
98	ST JAMES WATER DIST NO 2		LA	9000	766733	0.1%	4.9%
99	ST JOHN WATER DIST NO 1		LA	14670	766733	0.1%	4.9%
100	ST JOHN WATER DIST NO 2		LA	3702	766733	0.1%	4.9%
101	W JEFFERSON WW DIST NO 2	1 of 2	LA	104986	766843	0.1%	4.9%
102	W JEFFERSON WW DIST NO 2	2 of 2	LA	104986	766843	0.1%	4.9%
103	WESTWEGO WATERWORKS		LA	8534	766843	0.1%	4.9%
104	SHORT COLEMAN PARK-NASA PLANT	1 of 2	MS	533	46506	0.7%	10.1%
105	SHORT COLEMAN PARK-NASA PLANT	2 of 2	MS	533	46128	0.7%	10.2%
106	CLEVELAND COUNTY WATER		NC	19149	342	0.7%	1.0%
107	ROANOKE RAPIDS SANITARY DIST	1 of 2	NC	10918	8404	0.2%	0.2%
108	ROANOKE RAPIDS SANITARY DIST	2 of 2	NC	10918	8422	0.2%	0.2%
109	WELDON WATER SYSTEM		NC	808	8422	0.2%	0.2%
110	WEST JEFFERSON, TOWN OF	1 of 7	NC	98	342	0.7%	1.0%
111	WEST JEFFERSON, TOWN OF	2 of 7	NC	98	342	0.7%	1.0%
112	WEST JEFFERSON, TOWN OF	3 of 7	NC	98	342	0.7%	1.0%
113	WEST JEFFERSON, TOWN OF	4 of 7	NC	98	342	0.7%	1.0%
114	WEST JEFFERSON, TOWN OF	5 of 7	NC	98	342	0.7%	1.0%
115	WEST JEFFERSON, TOWN OF	6 of 7	NC	98	342	0.7%	1.0%
116	WEST JEFFERSON, TOWN OF	7 of 7	NC	98	342	0.7%	1.0%
117	ANDERSON COUNTY UTILITY BOARD		TN	10446	3844	3.7%	3.7%

(Continued)

DRAFT

Jefferson National Forest in Virginia

(Continued) Public water system intakes receiving water from Jefferson National Forest (4 of 9 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Jefferson NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
118	ANDERSON COUNTY WATER AUTHORITY	1 of 2	TN	12260	3844	3.7%	3.7%
119	ANDERSON COUNTY WATER AUTHORITY	2 of 2	TN	12260	3664	3.9%	3.9%
120	ARTHUR-SHAWANEE UTILITY DISTRI	1 of 2	TN	4666	967	4.0%	4.0%
121	ARTHUR-SHAWANEE UTILITY DISTRI	2 of 2	TN	4666	967	4.0%	4.0%
122	BLUFF CITY WATER DEPARTMENT		TN	2467	895	17.2%	32.2%
123	BRISTOL DEPT. UTILITIES		TN	29362	841	18.3%	33.1%
124	BRISTOL-BLUFF CITY UTILITY DISTRICT		TN	5254	895	17.2%	32.2%
125	CAMDEN WATER DEPT		TN	9667	54848	0.6%	8.6%
126	CARTHAGE WATER SYSTEM		TN	2718	18739	< 0.05%	4.5%
127	CARYVILLE-JACKSBORO U. D.		TN	2621	3561	4.0%	4.0%
128	CIRCLE VALLEY TRAILER PARK		TN	50	23663	1.5%	13.9%
129	CLAIBORNE UTILITIES DISTRICT		TN	14109	1892	5.4%	5.5%
130	CLARKSVILLE WATER DEPARTMENT		TN	177348	24901	< 0.05%	3.4%
131	CLIFTON WATER DEPT		TN	3830	48350	0.7%	9.7%
132	CLINTON UTILITIES BOARD		TN	17083	3844	3.7%	3.7%
133	CUNNINGHAM EAST MONT WAT TR PL		TN	25	24799	< 0.05%	3.4%
134	DAYTON WATER DEPT		TN	21235	28274	1.2%	16.4%
135	DECATUR WATER DEPT	1 of 2	TN	2810	23663	1.5%	13.9%
136	DECATUR WATER DEPT	2 of 2	TN	2810	23663	1.5%	13.9%
137	DOVER WATER DEPT		TN	3996	27996	< 0.05%	3.0%
138	E.I. DUPONT, NEW JOHNSONVILLE		TN	750	54936	0.6%	8.5%
139	E.I. DUPONT, OLD HICKORY		TN	1250	20132	< 0.05%	4.2%
140	EASTSIDE UTILITY DISTRICT		TN	48211	28660	1.2%	16.2%
141	ERIN WATER DEPARTMENT		TN	7001	27334	< 0.05%	3.1%
142	ETTP - COR - CITY OF OAK RIDGE		TN	843	6010	2.4%	2.4%
143	FAT DADDY'S MARINA		TN	34	56389	0.6%	8.3%
144	FIRST U D OF HAWKINS CO,#1	1 of 2	TN	9356	3205	6.4%	16.7%
145	FIRST U D OF HAWKINS CO,#1	2 of 2	TN	9356	3205	6.4%	16.7%
146	FIRST U.D. OF HARDIN COUNTY		TN	6669	46506	0.7%	10.1%
147	FIRST UTIL DIST OF KNOX COUNT	1 of 2	TN	40625	11685	1.7%	14.4%
148	FIRST UTIL DIST OF KNOX COUNT	2 of 2	TN	40625	11685	1.7%	14.4%
149	GAINESBORO WATER SYSTEM		TN	1589	13385	< 0.05%	6.3%
150	GALLATIN WATER DEPARTMENT		TN	41083	19841	< 0.05%	4.3%
151	GRASSHOPPER CREEK P.U.A.		TN	100	28274	1.2%	16.4%
152	HALLSDALE POWELL U D	1 of 3	TN	23486	4229	3.3%	3.4%
153	HALLSDALE POWELL U D	2 of 3	TN	23486	4229	3.3%	3.4%
154	HALLSDALE POWELL U D	3 of 3	TN	23486	3561	4.0%	4.0%
155	HARPETH VALLEY U D		TN	56440	22538	< 0.05%	3.8%
156	HARTSVILLE WATER DEPT		TN	8667	19146	< 0.05%	4.4%
157	HENDERSONVILLE U D		TN	49144	20132	< 0.05%	4.2%
158	JACOBS CREEK JOB CORPS CENTER - USFS		TN	300	783	19.7%	34.9%

(Continued)

DRAFT

Jefferson National Forest in Virginia

(Continued) Public water system intakes receiving water from Jefferson National Forest (5 of 9 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Jefferson NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
159	JEFFERSON CITY WATER & SEWER C	1 of 2	TN	4197	3817	5.3%	14.0%
160	JEFFERSON CITY WATER & SEWER C	2 of 2	TN	4197	3817	5.3%	14.0%
161	KINGSPORT WATER DEPT		TN	91499	2368	6.5%	20.5%
162	KINGSTON WATER SYSTEM		TN	4547	16745	1.2%	18.7%
163	KNOXVILLE UTILITIES BOARD-KUB		TN	236338	11497	1.8%	14.6%
164	LA FOLLETTE UTILITIES BOARD		TN	23981	3561	4.0%	4.0%
165	LAKEVIEW UTILITY DISTRICT	1 of 2	TN	702	3380	6.0%	15.9%
166	LAKEVIEW UTILITY DISTRICT	2 of 2	TN	702	3380	6.0%	15.9%
167	LEBANON WATER SYSTEM		TN	33323	19429	< 0.05%	4.4%
168	LENOIR CITY UTILITY BOARD	1 of 2	TN	11445	16407	1.2%	19.1%
169	LENOIR CITY UTILITY BOARD	2 of 2	TN	11445	16407	1.2%	19.1%
170	LINCOLN MEMORIAL UNIVERSITY		TN	1950	967	4.0%	4.0%
171	LIVINGSTON WATER DEPT		TN	4190	12649	< 0.05%	6.7%
172	LOUDON UTILITIES BOARD	1 of 2	TN	6141	16407	1.2%	19.1%
173	LOUDON UTILITIES BOARD	2 of 2	TN	6141	16407	1.2%	19.1%
174	LUTTRELL-BLAINE-CORRYTON U.D.		TN	1760	3855	5.3%	13.9%
175	MADISON SUBURBAN UD		TN	68205	22202	< 0.05%	3.8%
176	MORRISTOWN WATER SYSTEM		TN	15509	3649	5.6%	14.7%
177	MOUNTAIN CITY WATER DEPT.	1 of 2	TN	2422	51	1.1%	40.2%
178	MOUNTAIN CITY WATER DEPT.	2 of 2	TN	2422	51	1.1%	40.2%
179	NASHVILLE WATER DEPT #1	1 of 2	TN	299798	22297	< 0.05%	3.8%
180	NASHVILLE WATER DEPT #1	2 of 2	TN	299798	22202	< 0.05%	3.8%
181	NEW JOHNSONVILLE WATER DEPT		TN	2602	49180	0.7%	9.5%
182	NORRIS WATER COMMISSION		TN	1920	3664	3.9%	3.9%
183	NORTH STEWART UTILITY DISTRICT	1 of 4	TN	1322	27996	< 0.05%	3.0%
184	NORTH STEWART UTILITY DISTRICT	2 of 4	TN	1322	27996	< 0.05%	3.0%
185	NORTH STEWART UTILITY DISTRICT	3 of 4	TN	1322	27996	< 0.05%	3.0%
186	NORTH STEWART UTILITY DISTRICT	4 of 4	TN	1322	27996	< 0.05%	3.0%
187	NORTHEAST KNOX U D		TN	21048	4173	4.9%	12.8%
188	NORTHWEST CLAY COUNTY UTILITY		TN	3733	12539	< 0.05%	6.8%
189	OAK RIDGE DEPT OF PUBLIC WORKS		TN	31495	4229	3.3%	3.4%
190	OLD HICKORY UTILITY DISTRICT		TN	4063	20132	< 0.05%	4.2%
191	PARSONS WATER DEPARTMENT	1 of 2	TN	2038	49180	0.7%	9.5%
192	PARSONS WATER DEPARTMENT	2 of 2	TN	2038	49180	0.7%	9.5%
193	PERSIA UTILITY DISTRICT		TN	4414	3444	5.9%	15.6%
194	PLEASANT VIEW UTILITY DISTRICT		TN	13788	24542	< 0.05%	3.5%
195	RIVER ROAD UTILITY DISTRICT		TN	2909	22612	< 0.05%	3.8%
196	RIVERSIDE CATFISH HOUSE		TN	30	30089	1.1%	15.4%
197	ROCKWOOD WATER SYSTEM		TN	9273	23139	1.5%	14.2%

(Continued)

DRAFT

Jefferson National Forest in Virginia

(Continued) Public water system intakes receiving water from Jefferson National Forest (6 of 9 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Jefferson NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
198	SHADY GROVE HARBOR MARINA		TN	30	28497	1.2%	16.3%
199	SNEEDVILLE U D	1 of 2	TN	1022	1568	6.6%	6.7%
200	SNEEDVILLE U D	2 of 2	TN	1022	1568	6.6%	6.7%
201	SOUTH PITTSBURG WATER SYSTEM		TN	6522	31495	1.1%	14.7%
202	SPRING CITY WATER SYSTEM		TN	2554	23411	1.5%	14.0%
203	SURGOINSVILLE UTILITY DISTRICT	1 of 2	TN	1179	3380	6.0%	15.9%
204	SURGOINSVILLE UTILITY DISTRICT	2 of 2	TN	1179	3380	6.0%	15.9%
205	TENN-AMERICAN WATER COMPANY		TN	185910	29964	1.2%	15.5%
206	WATER AUTH. OF DICKSON COUNTY		TN	17100	24542	< 0.05%	3.5%
207	WATTS BAR UTILITY DISTRICT	1 of 3	TN	3723	23411	1.5%	14.0%
208	WATTS BAR UTILITY DISTRICT	2 of 3	TN	3723	23411	1.5%	14.0%
209	WATTS BAR UTILITY DISTRICT	3 of 3	TN	3723	23411	1.5%	14.0%
210	WAVERLY WATER DEPARTMENT		TN	1935	54848	0.6%	8.6%
211	WEST KNOX UTILITY DISTRICT	1 of 2	TN	30344	4229	3.3%	3.4%
212	WEST KNOX UTILITY DISTRICT	2 of 2	TN	30344	4229	3.3%	3.4%
213	WEST WILSON UTILITY DISTRICT		TN	56990	20132	< 0.05%	4.2%
214	WHITE HOUSE UTILITY DISTRICT		TN	87329	20132	< 0.05%	4.2%
215	ALTAVISTA, TOWN OF	1 of 4	VA	770	1804	0.6%	0.6%
216	ALTAVISTA, TOWN OF	2 of 4	VA	770	1804	0.6%	0.6%
217	ALTAVISTA, TOWN OF	3 of 4	VA	770	2227	0.9%	0.9%
218	ALTAVISTA, TOWN OF	4 of 4	VA	770	400	2.2%	2.2%
219	APPALACHIA, TOWN OF		VA	2968	85	6.9%	6.9%
220	BEDFORD, CITY OF	1 of 7	VA	992	60	4.2%	4.2%
221	BEDFORD, CITY OF	2 of 7	VA	992	60	4.2%	4.2%
222	BEDFORD, CITY OF	3 of 7	VA	992	60	4.2%	4.2%
223	BEDFORD, CITY OF	4 of 7	VA	992	60	4.2%	4.2%
224	BEDFORD, CITY OF	5 of 7	VA	992	60	4.2%	4.2%
225	BEDFORD, CITY OF	6 of 7	VA	992	60	4.2%	4.2%
226	BEDFORD, CITY OF	7 of 7	VA	992	60	4.2%	4.2%
227	BIG STONE GAP, TOWN OF		VA	4686	222	10.7%	10.7%
228	BLAND COMMUNITY WATER AUTHORITY	1 of 2	VA	245	57	14.4%	14.4%
229	BLAND COMMUNITY WATER AUTHORITY	2 of 2	VA	245	57	14.4%	14.4%
230	BLAND CORRECTIONAL CENTER		VA	750	226	34.5%	34.5%
231	BOILING SPRING ELEMENTARY SCHOOL		VA	200	156	32.7%	55.2%
232	BRISTOL VIRGINIA UTILITY BOARD		VA	20000	705	21.9%	32.9%
233	BUCHANAN, TOWN OF	1 of 4	VA	308	2093	15.9%	42.5%
234	BUCHANAN, TOWN OF	2 of 4	VA	308	2093	15.9%	42.5%
235	BUCHANAN, TOWN OF	3 of 4	VA	308	2093	15.9%	42.5%
236	BUCHANAN, TOWN OF	4 of 4	VA	308	60	19.2%	19.2%
237	CAMPBELL COUNTY CENTRAL SYSTEM		VA	10000	374	2.3%	2.3%
238	CATAWBA HOSPITAL	1 of 2	VA	210	48	20.9%	21.0%
239	CATAWBA HOSPITAL	2 of 2	VA	210	48	20.9%	21.0%
240	CITY OF SALEM WTP		VA	25500	349	0.9%	0.9%

(Continued)

DRAFT

Jefferson National Forest in Virginia

(Continued) Public water system intakes receiving water from Jefferson National Forest (7 of 9 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Jefferson NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
241	CLARKSVILLE, TOWN OF		VA	1400	7494	0.3%	0.3%
242	CLIFTON FORGE, TOWN OF		VA	4679	931	5.5%	42.6%
243	CLOVERDALE		VA	224	67	1.4%	1.4%
244	COEBURN, TOWN OF	1 of 2	VA	1543	134	15.2%	15.7%
245	COEBURN, TOWN OF	2 of 2	VA	1543	134	15.2%	15.7%
246	DALE COURT		VA	30	67	1.4%	1.4%
247	DUFFIELD_SCOTT CO PSA	1 of 2	VA	1523	53	27.1%	27.1%
248	DUFFIELD_SCOTT CO PSA	2 of 2	VA	1523	53	27.1%	27.1%
249	DUNGANNON, TOWN OF	1 of 2	VA	300	1030	6.9%	7.0%
250	DUNGANNON, TOWN OF	2 of 2	VA	300	1030	6.9%	7.0%
251	EAGLE EYRIE BAPTIST CONFERENCE CENTER		VA	1000	3365	11.7%	37.4%
252	ECV/SCOTT CO PSA		VA	219	624	8.0%	8.0%
253	FRIES, TOWN OF		VA	484	1857	3.4%	3.5%
254	HENRICO COUNTY WATER SYSTEM		VA	144500	6717	5.8%	19.9%
255	HOUNDSHELL CAMPGROUND		VA	25	57	64.5%	64.5%
256	HUTTON BRANCH	1 of 2	VA	208	107	32.6%	33.2%
257	HUTTON BRANCH	2 of 2	VA	208	107	32.6%	33.2%
258	IVANHOE_MAX MEADOWS	1 of 3	VA	1266	337	18.5%	18.7%
259	IVANHOE_MAX MEADOWS	2 of 3	VA	1266	337	18.5%	18.7%
260	IVANHOE_MAX MEADOWS	3 of 3	VA	1266	337	18.5%	18.7%
261	JAMES RIVER CORRECTIONAL CTR		VA	6902	6508	6.0%	20.5%
262	JAMES RIVER ESTATES	1 of 2	VA	44	6624	5.9%	20.2%
263	JAMES RIVER ESTATES	2 of 2	VA	44	6624	5.9%	20.2%
264	JONESVILLE, TOWN OF	1 of 2	VA	932	543	7.1%	7.1%
265	JONESVILLE, TOWN OF	2 of 2	VA	932	543	7.1%	7.1%
266	LYNCHBURG, CITY OF	1 of 2	VA	25333	3526	11.2%	35.7%
267	LYNCHBURG, CITY OF	2 of 2	VA	25333	3365	11.7%	37.4%
268	MARION, TOWN OF	1 of 5	VA	1700	107	32.6%	33.2%
269	MARION, TOWN OF	2 of 5	VA	1700	107	32.6%	33.2%
270	MARION, TOWN OF	3 of 5	VA	1700	107	32.6%	33.2%
271	MARION, TOWN OF	4 of 5	VA	1700	107	32.6%	33.2%
272	MARION, TOWN OF	5 of 5	VA	1700	107	32.6%	33.2%
273	NARROWS, TOWN OF	1 of 2	VA	630	5193	9.9%	9.9%
274	NARROWS, TOWN OF	2 of 2	VA	630	329	19.6%	20.0%
275	NEWPORT NEWS, CITY OF	1 of 3	VA	33833	9602	4.1%	13.9%
276	NEWPORT NEWS, CITY OF	2 of 3	VA	33833	9602	4.1%	13.9%
277	NEWPORT NEWS, CITY OF	3 of 3	VA	33833	9602	4.1%	13.9%
278	NORFOLK, CITY OF	1 of 3	VA	11153	8348	0.2%	0.2%
279	NORFOLK, CITY OF	2 of 3	VA	11153	8348	0.2%	0.2%
280	NORFOLK, CITY OF	3 of 3	VA	11153	8348	0.2%	0.2%
281	NORTON, CITY OF	1 of 2	VA	792	85	6.9%	6.9%
282	NORTON, CITY OF	2 of 2	VA	792	85	6.9%	6.9%
283	PENNINGTON GAP, TOWN OF		VA	1781	284	8.9%	8.9%
284	POUND, TOWN OF		VA	1104	55	27.0%	27.1%
285	PULASKI COUNTY PSA		VA	9452	3298	6.3%	6.3%
286	PULASKI, TOWN OF		VA	9473	36	55.1%	55.3%
287	RADFORD ARMY AMMUNITION PLANT - 419	1 of 2	VA	690	4012	5.9%	6.0%
288	RADFORD ARMY AMMUNITION PLANT - 419	2 of 2	VA	690	4012	5.9%	6.0%
289	RADFORD, CITY OF		VA	15859	3935	6.0%	6.1%
290	RAM/WAYSIDE COMMUNITY WATER SYSTEM		VA	93	5193	9.9%	9.9%
291	RICH CREEK, TOWN OF		VA	475	60	2.2%	2.2%
292	RICHMOND, CITY OF		VA	197000	6762	5.8%	19.8%

(Continued)

DRAFT

Jefferson National Forest in Virginia

(Continued) Public water system intakes receiving water from Jefferson National Forest (8 of 9 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Jefferson NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
293	ROANOKE RIVER SERVICE AUTHORITY		VA	215	7997	0.2%	0.2%
294	RURAL RETREAT, TOWN OF	1 of 2	VA	1250	176	30.3%	30.6%
295	RURAL RETREAT, TOWN OF	2 of 2	VA	1250	176	30.3%	30.6%
296	RYE VALLEY WATER AUTHORITY	1 of 3	VA	425	57	64.5%	64.5%
297	RYE VALLEY WATER AUTHORITY	2 of 3	VA	425	57	64.5%	64.5%
298	RYE VALLEY WATER AUTHORITY	3 of 3	VA	425	57	64.5%	64.5%
299	SMITH MT. LAKE CENTRAL WATER SYSTEM		VA	1420	1025	0.5%	0.5%
300	THOMAS BRIDGE WATER CORP	1 of 2	VA	1750	110	48.6%	48.6%
301	THOMAS BRIDGE WATER CORP	2 of 2	VA	1750	110	48.6%	48.6%
302	WALKER CREEK	1 of 2	VA	162	169	21.4%	21.8%
303	WALKER CREEK	2 of 2	VA	162	169	21.4%	21.8%
304	WASHINGTON COUNTY SERVICE AUTHORITY	1 of 2	VA	4757	254	14.2%	14.5%
305	WASHINGTON COUNTY SERVICE AUTHORITY	2 of 2	VA	4757	77	62.6%	68.3%
306	WESTERN VIRGINIA WATER AUTHORITY	1 of 21	VA	5345	644	0.8%	0.8%
307	WESTERN VIRGINIA WATER AUTHORITY	2 of 21	VA	5345	598	0.9%	0.9%
308	WESTERN VIRGINIA WATER AUTHORITY	3 of 21	VA	5345	598	0.9%	0.9%
309	WESTERN VIRGINIA WATER AUTHORITY	4 of 21	VA	5345	598	0.9%	0.9%
310	WESTERN VIRGINIA WATER AUTHORITY	5 of 21	VA	5345	598	0.9%	0.9%
311	WESTERN VIRGINIA WATER AUTHORITY	6 of 21	VA	5345	598	0.9%	0.9%
312	WESTERN VIRGINIA WATER AUTHORITY	7 of 21	VA	5345	598	0.9%	0.9%
313	WESTERN VIRGINIA WATER AUTHORITY	8 of 21	VA	5345	598	0.9%	0.9%
314	WESTERN VIRGINIA WATER AUTHORITY	9 of 21	VA	5345	598	0.9%	0.9%
315	WESTERN VIRGINIA WATER AUTHORITY	10 of 21	VA	5345	598	0.9%	0.9%
316	WESTERN VIRGINIA WATER AUTHORITY	11 of 21	VA	5345	598	0.9%	0.9%
317	WESTERN VIRGINIA WATER AUTHORITY	12 of 21	VA	5345	598	0.9%	0.9%
318	WESTERN VIRGINIA WATER AUTHORITY	13 of 21	VA	5345	598	0.9%	0.9%
319	WESTERN VIRGINIA WATER AUTHORITY	14 of 21	VA	5345	598	0.9%	0.9%
320	WESTERN VIRGINIA WATER AUTHORITY	15 of 21	VA	5345	598	0.9%	0.9%
321	WESTERN VIRGINIA WATER AUTHORITY	16 of 21	VA	5345	349	0.9%	0.9%
322	WESTERN VIRGINIA WATER AUTHORITY	17 of 21	VA	5345	349	0.9%	0.9%
323	WESTERN VIRGINIA WATER AUTHORITY	18 of 21	VA	5345	129	1.7%	1.7%

(Continued)

DRAFT

Jefferson National Forest in Virginia

(Continued) Public water system intakes receiving water from Jefferson National Forest (9 of 9 pages)

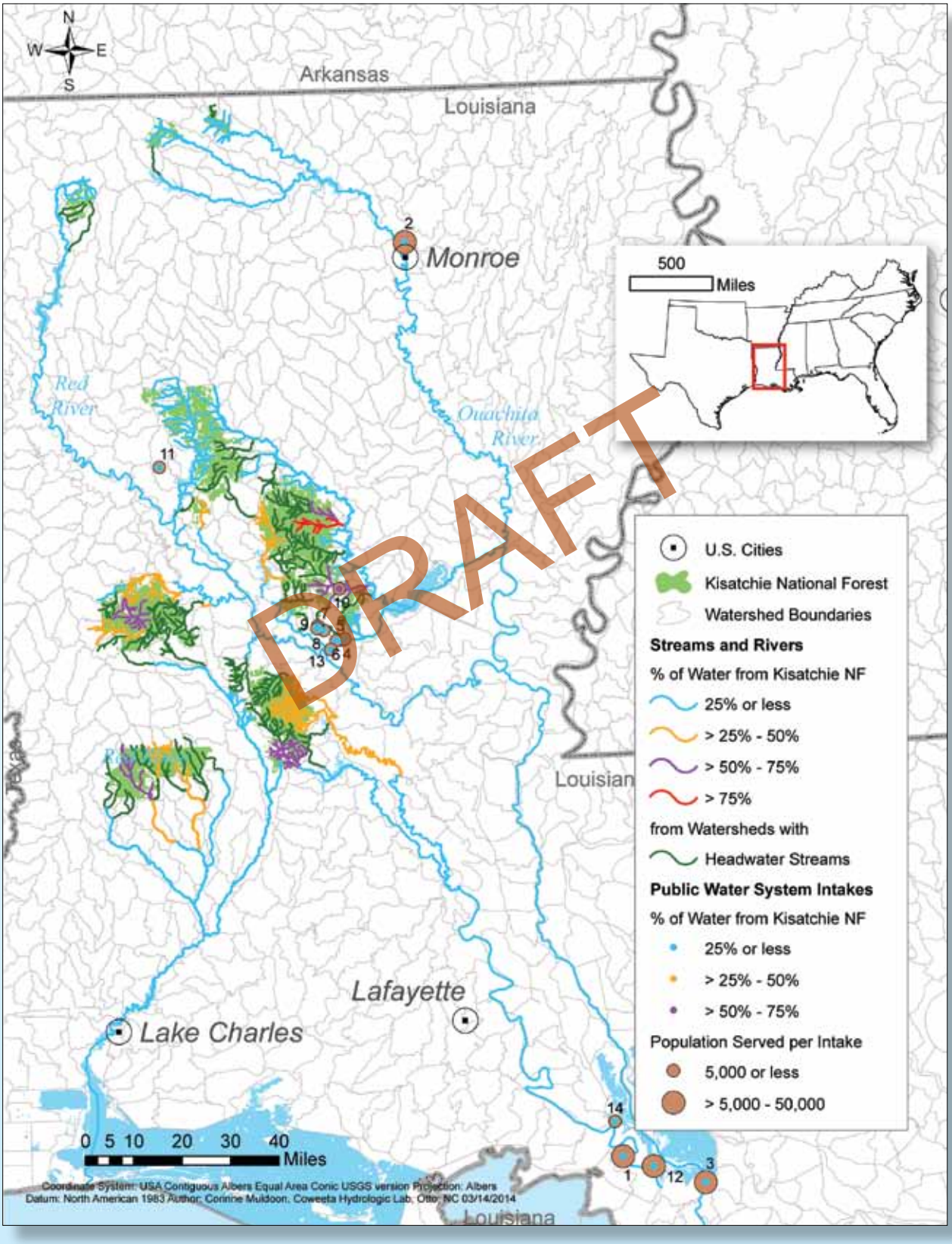
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water		
					Volume available to intake	Percent from Jefferson NF only	Percent from all NFS lands[a]
					millions m^3/year		
324	WESTERN VIRGINIA WATER AUTHORITY	19 of 21	VA	5345	129	1.7%	1.7%
325	WESTERN VIRGINIA WATER AUTHORITY	20 of 21	VA	5345	129	1.7%	1.7%
326	WESTERN VIRGINIA WATER AUTHORITY	21 of 21	VA	5345	129	1.7%	1.7%
327	WYTHEVILLE, TOWN OF		VA	3902	221	24.0%	24.3%

[a] This percentage includes water from Jefferson National Forest.

DRAFT

Kisatchie National Forest in Louisiana

Kisatchie National Forest and public water system intakes receiving water from Kisatchie National Forest



Kisatchie National Forest in Louisiana

Public water system intakes receiving water from Kisatchie National Forest

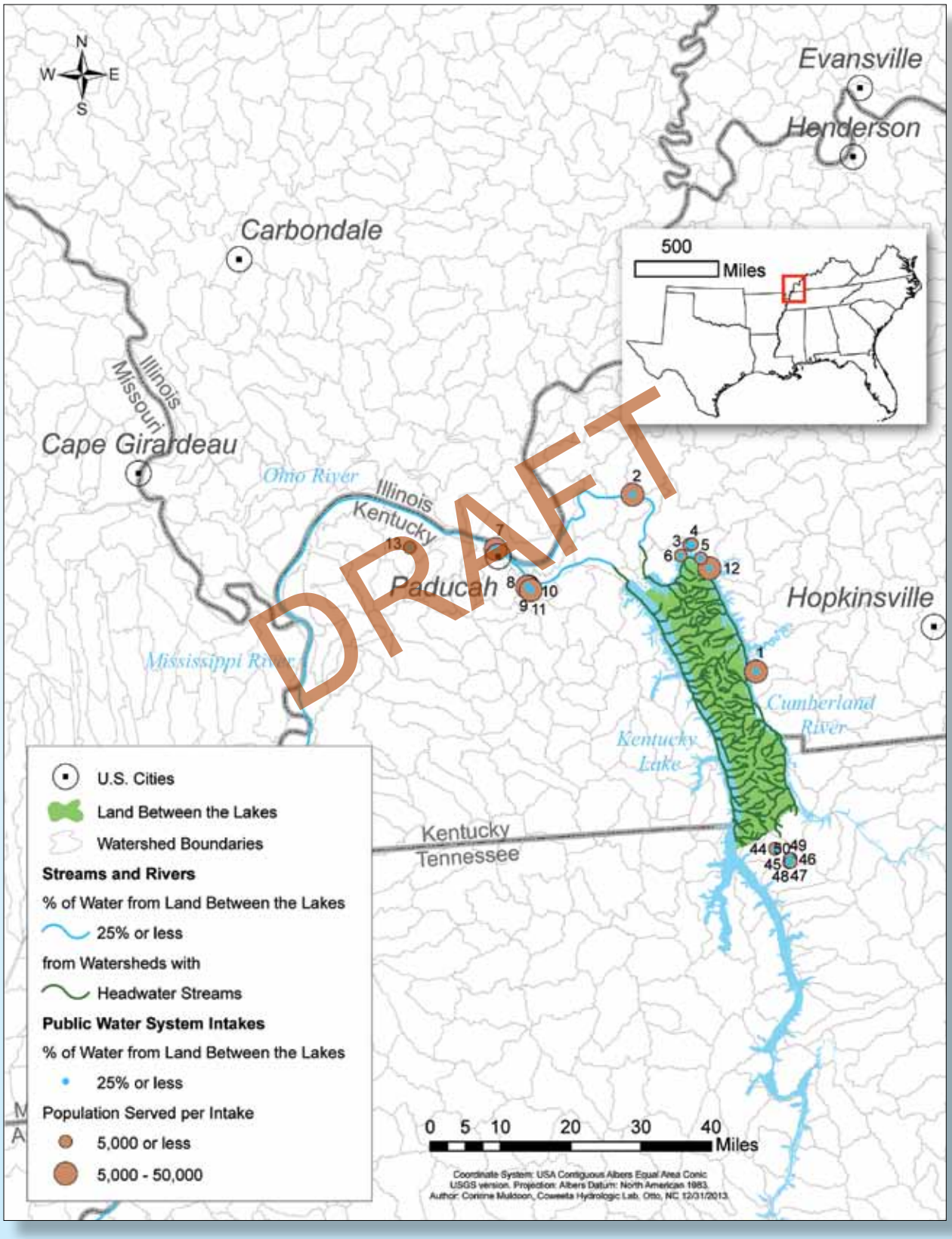
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water		
					Volume available to intake	Percent from Kisatchie NF only	Percent from all NFS lands[a]
					millions m^3/year		
1	FRANKLIN WATER SUPPLY CITY OF		LA	8500	3135	5.9%	5.9%
2	MONROE WATER SYSTEM		LA	26286	21809	0.2%	7.5%
3	MORGAN CITY WATER SYSTEM		LA	6352	86706	1.1%	3.9%
4	RAPIDES PARISH WATERWORKS DISTRICT NO 3	1 of 7	LA	2786	67	10.5%	10.5%
5	RAPIDES PARISH WATERWORKS DISTRICT NO 3	2 of 7	LA	2786	67	10.5%	10.5%
6	RAPIDES PARISH WATERWORKS DISTRICT NO 3	3 of 7	LA	2786	67	10.5%	10.5%
7	RAPIDES PARISH WATERWORKS DISTRICT NO 3	4 of 7	LA	2786	26	16.6%	16.7%
8	RAPIDES PARISH WATERWORKS DISTRICT NO 3	5 of 7	LA	2786	552	18.7%	18.7%
9	RAPIDES PARISH WATERWORKS DISTRICT NO 3	6 of 7	LA	2786	552	18.7%	18.7%
10	RAPIDES PARISH WATERWORKS DISTRICT NO 3	7 of 7	LA	2786	93	52.5%	52.6%
11	SANDY POINT 480 WATER SYSTEM		LA	458	1096	0.5%	0.5%
12	ST MARY PARISH WW DIST NO 5		LA	7500	83486	1.2%	4.1%
13	VETERANS ADMINISTRATION		LA	665	552	18.7%	18.7%
14	WATER & SEWER COMMISSION #4 OF ST MARY		LA	4674	83537	1.2%	4.1%

[a] This percentage includes water from Kisatchie National Forest.

DRAFT

Land Between the Lakes National Recreation Area in Kentucky and Tennessee

Land Between the Lakes and public water system intakes receiving greater than or equal to 0.1% annual water supply from Land Between the Lakes National Recreation Area



Land Between the Lakes National Recreation Area in Kentucky and Tennessee

Public water system intakes receiving water from Land Between the Lakes National Recreation Area

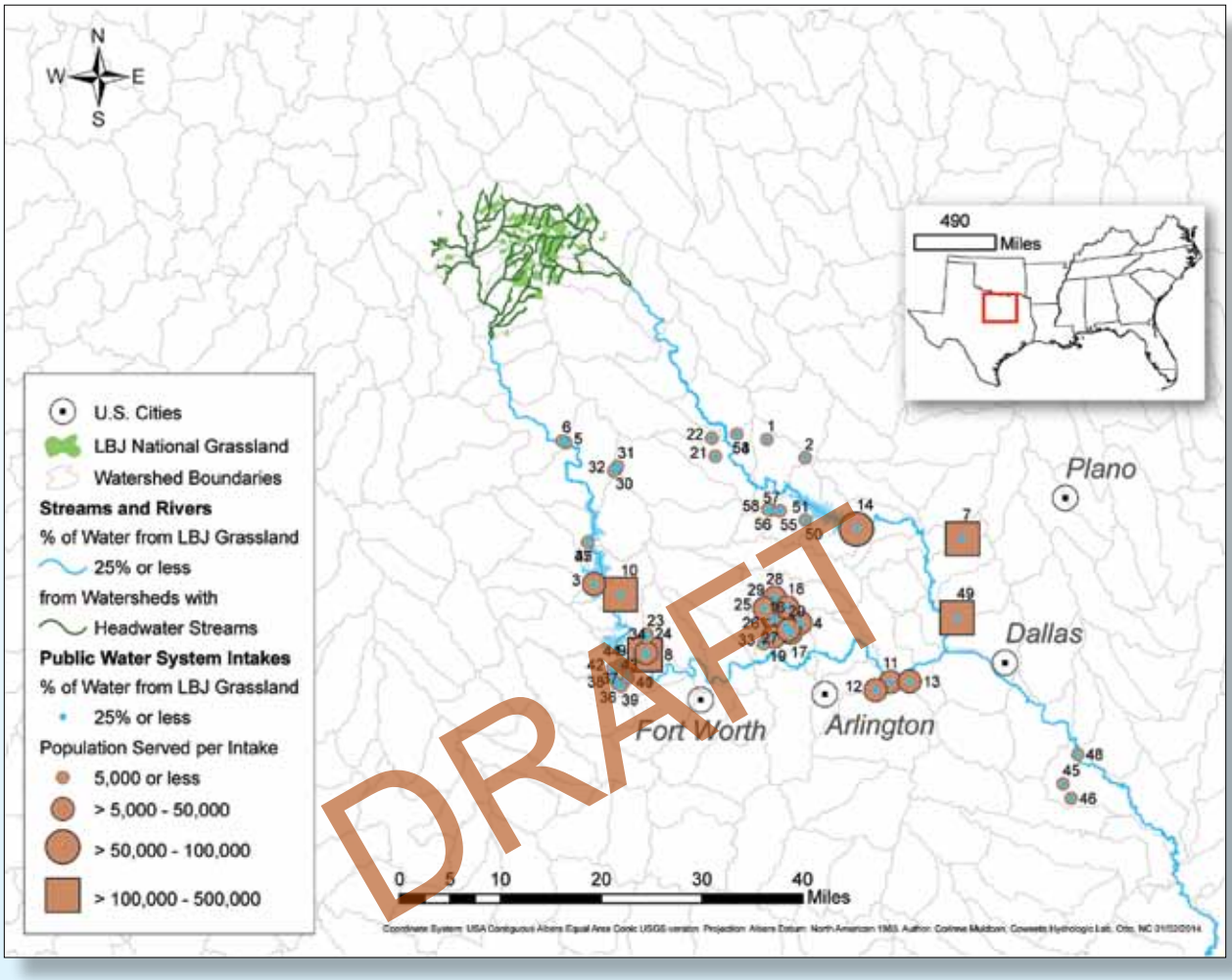
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Land Between the Lakes only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
1	BARKLEY LAKE WATER DISTRICT		KY	16038	29493	0.5%	3.4%
2	CRITTENDEN-LIVINGSTON CO WATER DISTRICT		KY	9079	30319	0.8%	3.6%
3	EDDYVILLE WATER DEPARTMENT	1 of 2	KY	1839	29842	0.7%	3.6%
4	EDDYVILLE WATER DEPARTMENT	2 of 2	KY	1839	29842	0.7%	3.6%
5	KENTUCKY STATE PENITENTIARY		KY	1000	29842	0.7%	3.6%
6	KUTTAWA WATER DEPARTMENT		KY	853	29933	0.8%	3.6%
7	PADUCAH WATER WORKS	1 of 5	KY	8002	297471	0.1%	4.2%
8	PADUCAH WATER WORKS	2 of 5	KY	8002	57983	0.2%	8.3%
9	PADUCAH WATER WORKS	3 of 5	KY	8002	57983	0.2%	8.3%
10	PADUCAH WATER WORKS	4 of 5	KY	8002	57983	0.2%	8.3%
11	PADUCAH WATER WORKS	5 of 5	KY	8002	57983	0.2%	8.3%
12	PRINCETON WATER & SEWER COMMISSION		KY	10288	29842	0.7%	3.6%
13	US ENRICHMENT CORP		KY	2000	297837	0.1%	4.2%
14	BELLE CHASSE WATER DISTRICT		LA	17391	772377	< 0.05%	4.9%
15	DALCOUR WATERWORKS DIST		LA	2666	772377	< 0.05%	4.9%
16	DOMINO SUGAR		LA	360	772377	< 0.05%	4.9%
17	DOW USA, LA DIVISION		LA	3960	772162	< 0.05%	4.9%
18	E JEFFERSON WW DIST NO 1		LA	308362	772377	< 0.05%	4.9%
19	FERRIDAY TOWN OF		LA	3698	768596	< 0.05%	4.9%
20	GRAMERCY WATERWORKS		LA	2800	772267	< 0.05%	4.9%
21	GRETNA WATERWORKS		LA	17500	772377	< 0.05%	4.9%
22	LUTCHER WATERWORKS		LA	4781	772267	< 0.05%	4.9%
23	MARATHON PETROLEUM COMPANY LLC		LA	817	772267	< 0.05%	4.9%
24	NEW ORLEANS ALGIERS WW	1 of 2	LA	29120	772377	< 0.05%	4.9%
25	NEW ORLEANS ALGIERS WW	2 of 2	LA	29120	772377	< 0.05%	4.9%
27	NEW ORLEANS CARROLLTON WW	2 of 2	LA	214000	772377	< 0.05%	4.9%
28	NORANDA ALUMINA, LLC		LA	500	772267	< 0.05%	4.9%
29	ORMET CORPORATION		LA	65	772267	< 0.05%	4.9%
30	POINTE A LA HACHE W S		LA	1400	772377	< 0.05%	4.9%
31	PORT SULPHUR WATER DIST	1 of 2	LA	4461	772430	< 0.05%	4.9%
32	PORT SULPHUR WATER DIST	2 of 2	LA	4461	772377	< 0.05%	4.9%
33	SHELL CHEMICAL COMPANY		LA	675	772267	< 0.05%	4.9%
34	ST BERNARD PAR WATERWORK		LA	33000	772377	< 0.05%	4.9%
35	ST CHARLES WATER DIST NO 1 EB		LA	29517	772377	< 0.05%	4.9%
36	ST CHARLES WATER DIST NO 2 WB		LA	31485	772377	< 0.05%	4.9%
37	ST JAMES WATER DIST NO 1		LA	6120	772267	< 0.05%	4.9%
38	ST JAMES WATER DIST NO 2		LA	9000	772267	< 0.05%	4.9%
39	ST JOHN WATER DIST NO 1		LA	14670	772267	< 0.05%	4.9%
40	ST JOHN WATER DIST NO 2		LA	3702	772267	< 0.05%	4.9%
41	W JEFFERSON WW DIST NO 2	2 of 2	LA	104986	772377	< 0.05%	4.9%
42	W JEFFERSON WW DIST NO 2	1 of 2	LA	104986	772377	< 0.05%	4.9%
43	WESTWEGO WATERWORKS		LA	8534	772377	< 0.05%	4.9%
44	CLEARWATER CMPG & TROUT FARM		TN	25	33	0.1%	0.1%
45	DOALNARA RESTORATION SOCI USA	1 of 6	TN	22	33	0.1%	0.1%
46	DOALNARA RESTORATION SOCI USA	2 of 6	TN	22	33	0.1%	0.1%
47	DOALNARA RESTORATION SOCI USA	3 of 6	TN	22	33	0.1%	0.1%
48	DOALNARA RESTORATION SOCI USA	4 of 6	TN	22	33	0.1%	0.1%
49	DOALNARA RESTORATION SOCI USA	5 of 6	TN	22	33	0.1%	0.1%
50	DOALNARA RESTORATION SOCI USA	6 of 6	TN	22	33	0.1%	0.1%
51	FAT DADDY'S MARINA		TN	34	56368	< 0.05%	8.3%

[a] This percentage includes water from Land Between the Lakes.

DRAFT

Lyndon B. Johnson National Grassland in Texas

Lyndon B. Johnson National Grassland and public water system intakes receiving more than 0.1% annual water supply from Lyndon B. Johnson National Grassland



Lyndon B. Johnson National Grassland in Texas

Public water system intakes receiving water from Lyndon B. Johnson National Grassland

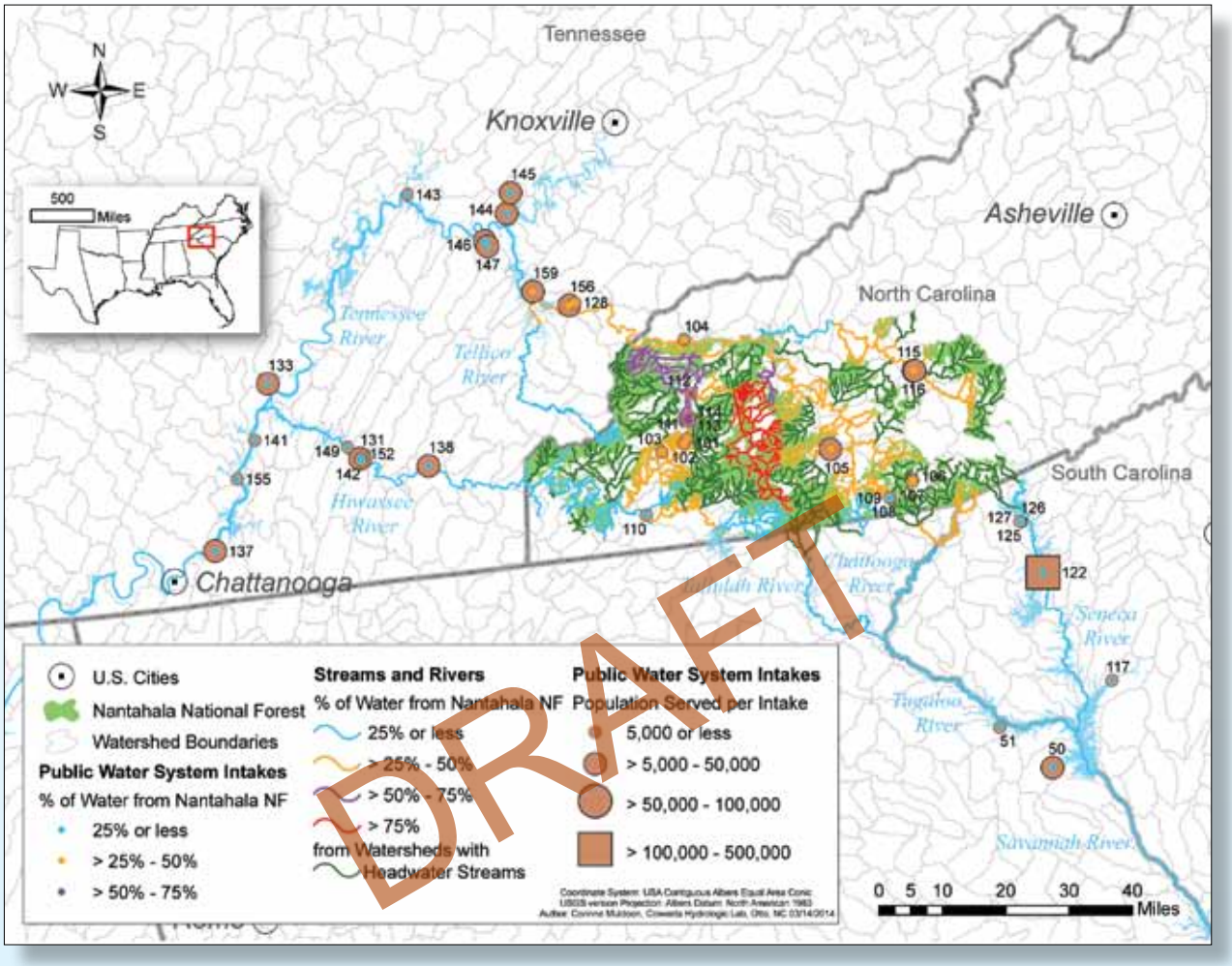
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Lyndon B. Johnson Grassland only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
1	ARGYLE WSC		TX	1217	410	2.3%	2.3%
2	BARTONVILLE WSC		TX	795	410	2.3%	2.3%
3	CITY OF AZLE		TX	14115	1054	0.6%	0.6%
4	CITY OF BEDFORD		TX	49950	1946	0.3%	0.3%
5	CITY OF BOYD	1 of 2	TX	625	903	0.8%	0.8%
6	CITY OF BOYD	2 of 2	TX	625	903	0.8%	0.8%
7	CITY OF CARROLLTON		TX	122100	1894	0.5%	0.5%
8	CITY OF FORT WORTH	1 of 3	TX	121263	1122	0.6%	0.6%
9	CITY OF FORT WORTH	2 of 3	TX	121263	1122	0.6%	0.6%
10	CITY OF FORT WORTH	3 of 3	TX	121263	1054	0.6%	0.6%
11	CITY OF GRAND PRAIRIE	1 of 3	TX	17103	4446	0.4%	0.4%
12	CITY OF GRAND PRAIRIE	2 of 3	TX	17103	4446	0.4%	0.4%
13	CITY OF GRAND PRAIRIE	3 of 3	TX	17103	4446	0.4%	0.4%
14	CITY OF GRAPEVINE		TX	50514	467	2.0%	2.0%
15	CITY OF HOUSTON		TX	16528	15306	0.1%	0.4%
16	CITY OF HURST	1 of 5	TX	7467	1946	0.3%	0.3%
17	CITY OF HURST	2 of 5	TX	7467	1946	0.3%	0.3%
18	CITY OF HURST	3 of 5	TX	7467	1946	0.3%	0.3%
19	CITY OF HURST	4 of 5	TX	7467	1946	0.3%	0.3%
20	CITY OF HURST	5 of 5	TX	7467	1946	0.3%	0.3%
21	CITY OF JUSTIN	1 of 2	TX	1715	388	2.4%	2.4%
22	CITY OF JUSTIN	2 of 2	TX	1715	388	2.4%	2.4%
23	CITY OF LAKE WORTH	1 of 2	TX	2375	1071	0.6%	0.6%
24	CITY OF LAKE WORTH	2 of 2	TX	2375	1071	0.6%	0.6%
25	CITY OF NORTH RICHLAND HILLS	1 of 5	TX	13280	1946	0.3%	0.3%
26	CITY OF NORTH RICHLAND HILLS	2 of 5	TX	13280	1946	0.3%	0.3%
27	CITY OF NORTH RICHLAND HILLS	3 of 5	TX	13280	1946	0.3%	0.3%
28	CITY OF NORTH RICHLAND HILLS	4 of 5	TX	13280	1946	0.3%	0.3%
29	CITY OF NORTH RICHLAND HILLS	5 of 5	TX	13280	1946	0.3%	0.3%
30	CITY OF RHOME	1 of 3	TX	355	937	0.7%	0.7%
31	CITY OF RHOME	2 of 3	TX	355	937	0.7%	0.7%
33	CITY OF RICHLAND HILLS		TX	2321	1735	0.4%	0.4%
34	CITY OF RIVER OAKS		TX	7427	1122	0.6%	0.6%
35	CITY OF SPRINGTOWN		TX	663	967	0.7%	0.7%
36	CITY OF WHITE SETTLEMENT	1 of 9	TX	1789	1153	0.6%	0.6%
37	CITY OF WHITE SETTLEMENT	2 of 9	TX	1789	1153	0.6%	0.6%
38	CITY OF WHITE SETTLEMENT	3 of 9	TX	1789	1153	0.6%	0.6%
39	CITY OF WHITE SETTLEMENT	4 of 9	TX	1789	1153	0.6%	0.6%
40	CITY OF WHITE SETTLEMENT	5 of 9	TX	1789	1153	0.6%	0.6%
41	CITY OF WHITE SETTLEMENT	6 of 9	TX	1789	1153	0.6%	0.6%
42	CITY OF WHITE SETTLEMENT	7 of 9	TX	1789	1122	0.6%	0.6%
43	CITY OF WHITE SETTLEMENT	8 of 9	TX	1789	1122	0.6%	0.6%
44	CITY OF WHITE SETTLEMENT	9 of 9	TX	1789	1122	0.6%	0.6%
45	CITY OF WILMER	1 of 2	TX	1700	4910	0.3%	0.3%
46	CITY OF WILMER	2 of 2	TX	1700	4910	0.3%	0.3%
47	COMMUNITY WSC		TX	3702	967	0.7%	0.7%
48	D BAR B MOBILE HOME RANCH		TX	219	4910	0.3%	0.3%
49	DALLAS WATER UTILITY		TX	313250	2013	0.5%	0.5%
50	SOUTH LAKE PARK SERVICE	1 of 2	TX	56	441	2.1%	2.1%
51	SOUTH LAKE PARK SERVICE	2 of 2	TX	56	441	2.1%	2.1%
52	TBCD WEST TREATMENT PLANT		TX	1827	15760	0.1%	0.4%
53	TOWN OF NORTHLAKE	1 of 2	TX	775	388	2.4%	2.4%
54	TOWN OF NORTHLAKE	2 of 2	TX	775	388	2.4%	2.4%
55	TROPHY CLUB MUD 1	1 of 4	TX	1953	441	2.1%	2.1%
56	TROPHY CLUB MUD 1	2 of 4	TX	1953	441	2.1%	2.1%
57	TROPHY CLUB MUD 1	3 of 4	TX	1953	441	2.1%	2.1%
58	TROPHY CLUB MUD 1	4 of 4	TX	1953	441	2.1%	2.1%
59	WATERWOOD MUD 1	1 of 2	TX	524	13515	0.1%	0.3%
60	WATERWOOD MUD 1	2 of 2	TX	524	13515	0.1%	0.3%

[a] This percentage includes water from Lyndon B. Johnson Grassland.

DRAFT

Nantahala National Forest in North Carolina

Nantahala National Forest and public water system intakes receiving more than 5% annual water supply from Nantahala National Forest



Nantahala National Forest in North Carolina

Public water system intakes receiving water from Nantahala National Forest (1 of 5 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Nantahala NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
1	ALBERTVILLE UTILITIES BOARD		AL	30186	33758	4.3%	13.8%
2	ARAB WATER WORKS BOARD		AL	17576	34017	4.3%	13.7%
3	BRIDGEPORT UTILITIES BOARD		AL	6000	31495	4.7%	14.7%
4	CHEROKEE WATER & GAS DEPARTMENT		AL	2250	44337	3.3%	10.6%
5	COLBERT COUNTY RURAL WATER SYSTEM		AL	10731	44235	3.3%	10.6%
6	DECATUR (MUNICIPAL UTILITIES BOARD OF)		AL	77100	37784	3.9%	12.4%
7	DEKALB-JACKSON WATER SUPPLY DISTRICT		AL	40	31714	4.6%	14.6%
8	FLORENCE WATER-WASTEWATER DEPARTMENT	1 of 2	AL	16725	43340	3.4%	10.8%
9	FLORENCE WATER-WASTEWATER DEPARTMENT	2 of 2	AL	16725	43340	3.4%	10.8%
10	FORT PAYNE WATER WORKS BOARD		AL	7248	32805	4.5%	14.2%
11	GREENHILL WATER & FIRE PRO AUTHORITY	1 of 2	AL	3855	43340	3.4%	10.8%
12	GREENHILL WATER & FIRE PRO AUTHORITY	2 of 2	AL	3855	43340	3.4%	10.8%
13	GUNTERSVILLE WATER WORKS & SEWER BOARD	1 of 2	AL	6375	34017	4.3%	13.7%
14	GUNTERSVILLE WATER WORKS & SEWER BOARD	2 of 2	AL	6375	34017	4.3%	13.7%
15	HUNTSVILLE UTILITIES	1 of 2	AL	31310	36904	4.0%	12.6%
16	HUNTSVILLE UTILITIES	2 of 2	AL	31310	35738	4.1%	13.0%
17	LIMESTONE COUNTY WATER SYSTEM		AL	14625	37977	3.9%	12.3%
18	NORTH MARSHALL UTILITIES	1 of 2	AL	6185	34017	4.3%	13.7%
19	NORTH MARSHALL UTILITIES	2 of 2	AL	6185	34017	4.3%	13.7%
20	NORTHEAST ALABAMA WATER SYSTEM	1 of 3	AL	9375	33758	4.3%	13.8%
21	NORTHEAST ALABAMA WATER SYSTEM	2 of 3	AL	9375	32805	4.5%	14.2%
22	NORTHEAST ALABAMA WATER SYSTEM	3 of 3	AL	9375	32805	4.5%	14.2%
23	SCOTTSBORO WATER WORKS	1 of 2	AL	10950	32805	4.5%	14.2%
24	SCOTTSBORO WATER WORKS	2 of 2	AL	10950	32805	4.5%	14.2%
25	SECTION-DUTTON WATER SYSTEM		AL	32682	32805	4.5%	14.2%
26	SHEFFIELD UTILITIES DEPARTMENT		AL	14574	44235	3.3%	10.6%
27	US ARMY AVIATION & MISSILE COMMAND	1 of 2	AL	14250	35738	4.1%	13.0%

(Continued)

DRAFT

Nantahala National Forest in North Carolina

(Continued) Public water system intakes receiving water from Nantahala National Forest (2 of 5 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Nantahala NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
28	US ARMY AVIATION & MISSILE COMMAND	2 of 2	AL	14250	35738	4.1%	13.0%
29	WEST MORGAN-EAST LAWRENCE WATER AUTHORIT		AL	26130	38111	3.9%	12.3%
30	WISE ALLOYS LLC WATER SYSTEM		AL	2400	43340	3.4%	10.8%
31	AUGUSTA-RICHMOND CO WS	1 of 18	GA	8870	8951	2.0%	12.5%
32	AUGUSTA-RICHMOND CO WS	2 of 18	GA	8870	8951	2.0%	12.5%
33	AUGUSTA-RICHMOND CO WS	3 of 18	GA	8870	8951	2.0%	12.5%
34	AUGUSTA-RICHMOND CO WS	4 of 18	GA	8870	8951	2.0%	12.5%
35	AUGUSTA-RICHMOND CO WS	5 of 18	GA	8870	8951	2.0%	12.5%
36	AUGUSTA-RICHMOND CO WS	6 of 18	GA	8870	8951	2.0%	12.5%
37	AUGUSTA-RICHMOND CO WS	7 of 18	GA	8870	8951	2.0%	12.5%
38	AUGUSTA-RICHMOND CO WS	8 of 18	GA	8870	8951	2.0%	12.5%
39	AUGUSTA-RICHMOND CO WS	9 of 18	GA	8870	8951	2.0%	12.5%
40	AUGUSTA-RICHMOND CO WS	10 of 18	GA	8870	8951	2.0%	12.5%
41	AUGUSTA-RICHMOND CO WS	11 of 18	GA	8870	8951	2.0%	12.5%
42	AUGUSTA-RICHMOND CO WS	12 of 18	GA	8870	8951	2.0%	12.5%
43	AUGUSTA-RICHMOND CO WS	13 of 18	GA	8870	8951	2.0%	12.5%
44	AUGUSTA-RICHMOND CO WS	14 of 18	GA	8870	8951	2.0%	12.5%
45	AUGUSTA-RICHMOND CO WS	15 of 18	GA	8870	8951	2.0%	12.5%
46	AUGUSTA-RICHMOND CO WS	16 of 18	GA	8870	8951	2.0%	12.5%
47	AUGUSTA-RICHMOND CO WS	17 of 18	GA	8870	8951	2.0%	12.5%
48	AUGUSTA-RICHMOND CO WS	18 of 18	GA	8870	8130	2.2%	13.8%
49	COLUMBIA COUNTY		GA	31379	8040	2.2%	14.0%
50	HARTWELL		GA	7116	3518	5.1%	26.8%
51	LAVONIA		GA	4004	3518	5.1%	26.8%
52	LINCOLNTON		GA	1657	7334	2.4%	14.4%
53	POOLER	1 of 2	GA	3770	10781	1.7%	10.4%
54	POOLER	2 of 2	GA	3770	10781	1.7%	10.4%
55	RINCON	1 of 2	GA	4940	10781	1.7%	10.4%
56	RINCON	2 of 2	GA	4940	10598	1.7%	10.6%
57	SAVANNAH-I & D	1 of 4	GA	2625	10781	1.7%	10.4%
58	SAVANNAH-I & D	2 of 4	GA	2625	10781	1.7%	10.4%
59	SAVANNAH-I & D	3 of 4	GA	2625	10781	1.7%	10.4%
60	SAVANNAH-I & D	4 of 4	GA	2625	10598	1.7%	10.6%
61	THOMSON-MCDUFFIE CO W&S COMM		GA	8859	7334	2.4%	14.4%

(Continued)

DRAFT

Nantahala National Forest in North Carolina

(Continued) Public water system intakes receiving water from Nantahala National Forest (3 of 5 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Nantahala NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
62	WASHINGTON		GA	2052	7334	2.4%	14.4%
63	PADUCAH WATER WORKS	1 of 5	KY	8002	297413	0.5%	4.2%
64	PADUCAH WATER WORKS	2 of 5	KY	8002	58004	2.5%	8.3%
65	PADUCAH WATER WORKS	3 of 5	KY	8002	58004	2.5%	8.3%
66	PADUCAH WATER WORKS	4 of 5	KY	8002	58004	2.5%	8.3%
67	PADUCAH WATER WORKS	5 of 5	KY	8002	58004	2.5%	8.3%
68	US ENRICHMENT CORP		KY	2000	297779	0.5%	4.2%
69	BELLE CHASSE WATER DISTRICT		LA	17391	766843	0.2%	4.9%
70	DALCOUR WATERWORKS DIST		LA	2666	766843	0.2%	4.9%
71	DOMINO SUGAR		LA	360	766843	0.2%	4.9%
72	DOW USA, LA DIVISION		LA	3960	766628	0.2%	4.9%
73	E JEFFERSON WW DIST NO 1		LA	308362	766843	0.2%	4.9%
74	FERRIDAY TOWN OF		LA	3698	763064	0.2%	4.9%
75	GRAMERCY WATERWORKS		LA	2800	766733	0.2%	4.9%
76	GRETNA WATERWORKS		LA	17500	766843	0.2%	4.9%
77	LUTCHER WATERWORKS		LA	4781	766733	0.2%	4.9%
78	MARATHON PETROLEUM COMPANY LLC		LA	817	766733	0.2%	4.9%
79	NEW ORLEANS ALGIERS WW	1 of 2	LA	29120	766843	0.2%	4.9%
80	NEW ORLEANS ALGIERS WW	2 of 2	LA	29120	766843	0.2%	4.9%
81	NEW ORLEANS CARROLLTON WW	1 of 2	LA	214000	766843	0.2%	4.9%
82	NEW ORLEANS CARROLLTON WW	2 of 2	LA	214000	766843	0.2%	4.9%
83	NORANDA ALUMINA, LLC		LA	500	766733	0.2%	4.9%
84	ORMET CORPORATION		LA	65	766733	0.2%	4.9%
85	POINTE A LA HACHE W S		LA	1400	766843	0.2%	4.9%
86	PORT SULPHUR WATER DIST	1 of 2	LA	4461	766896	0.2%	4.9%
87	PORT SULPHUR WATER DIST	2 of 2	LA	4461	766843	0.2%	4.9%
88	SHELL CHEMICAL COMPANY		LA	675	766733	0.2%	4.9%
89	ST BERNARD PAR WATERWORK		LA	33000	766843	0.2%	4.9%
90	ST CHARLES WATER DIST NO 1 EB		LA	29517	766843	0.2%	4.9%
91	ST CHARLES WATER DIST NO 2 WB		LA	31485	766843	0.2%	4.9%
92	ST JAMES WATER DIST NO 1		LA	6120	766733	0.2%	4.9%
93	ST JAMES WATER DIST NO 2		LA	9000	766733	0.2%	4.9%
94	ST JOHN WATER DIST NO 1		LA	14670	766733	0.2%	4.9%
95	ST JOHN WATER DIST NO 2		LA	3702	766733	0.2%	4.9%
96	W JEFFERSON WW DIST NO 2	1 of 2	LA	104986	766843	0.2%	4.9%
97	W JEFFERSON WW DIST NO 2	2 of 2	LA	104986	766843	0.2%	4.9%

(Continued)

DRAFT

Nantahala National Forest in North Carolina

(Continued) Public water system intakes receiving water from Nantahala National Forest (4 of 5 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Nantahala NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
98	WESTWEGO WATERWORKS		LA	8534	766843	0.2%	4.9%
99	SHORT COLEMAN PARK-NASA PLANT	1 of 2	MS	533	46506	3.2%	10.1%
100	SHORT COLEMAN PARK-NASA PLANT	2 of 2	MS	533	46128	3.2%	10.2%
101	ANDREWS, TOWN OF	1 of 3	NC	1105	149	45.4%	45.4%
102	ANDREWS, TOWN OF	2 of 3	NC	1105	149	45.4%	45.4%
103	ANDREWS, TOWN OF	3 of 3	NC	1105	149	45.4%	45.4%
104	FONTANA VILLAGE RESORT WTP		NC	950	3000	27.4%	28.8%
105	FRANKLIN, TOWN OF		NC	9575	112	45.1%	45.1%
106	HIGHLANDS, TOWN OF	1 of 2	NC	3255	99	48.2%	48.3%
107	HIGHLANDS, TOWN OF	2 of 2	NC	3255	99	48.2%	48.3%
108	KING MOUNTAIN CLUB WATER	1 of 2	NC	75	188	17.4%	38.7%
109	KING MOUNTAIN CLUB WATER	2 of 2	NC	75	188	17.4%	38.7%
110	MURPHY, TOWN OF		NC	4240	699	22.2%	45.2%
111	ROBBINSVILLE, TOWN OF	1 of 4	NC	775	340	54.0%	54.0%
112	ROBBINSVILLE, TOWN OF	2 of 4	NC	775	340	54.0%	54.0%
113	ROBBINSVILLE, TOWN OF	3 of 4	NC	775	340	54.0%	54.0%
114	ROBBINSVILLE, TOWN OF	4 of 4	NC	775	340	54.0%	54.0%
115	TUCKASEIGEE WATER & SEWER AUTH		NC	5850	564	32.7%	32.7%
116	WESTERN CAROLINA UNIV WTP		NC	7700	564	32.7%	32.7%
117	ANDERSON REGIONAL WTR SYS		SC	25	3518	5.1%	26.8%
118	BJW&SA	1 of 3	SC	16468	10781	1.7%	10.4%
119	BJW&SA	2 of 3	SC	16468	10781	1.7%	10.4%
120	BJW&SA	3 of 3	SC	16468	10598	1.7%	10.6%
121	EDGEFIELD CO W&SA		SC	24652	8130	2.2%	13.8%
122	GREENVILLE WATER SYSTEM		SC	116723	776	6.1%	14.0%
123	MCCORMICK CPW		SC	2678	7334	2.4%	14.4%
124	NORTH AUGUSTA CITY OF		SC	26273	8130	2.2%	13.8%
125	SALEM TOWN OF	1 of 3	SC	456	425	11.1%	14.4%
126	SALEM TOWN OF	2 of 3	SC	456	425	11.1%	14.4%
127	SALEM TOWN OF	3 of 3	SC	456	425	11.1%	14.4%
128	129 MOTORCYCLE PIT STOP		TN	50	3921	27.7%	31.9%
129	CAMDEN WATER DEPT		TN	9667	54848	2.7%	8.6%
130	CIRCLE VALLEY TRAILER PARK		TN	50	23663	4.7%	13.9%
131	CLEVELAND UTILITIES		TN	38754	3550	10.3%	38.2%
132	CLIFTON WATER DEPT		TN	3830	48350	3.0%	9.7%
133	DAYTON WATER DEPT		TN	21235	28274	5.2%	16.4%

(Continued)

DRAFT

Nantahala National Forest in North Carolina

(Continued) Public water system intakes receiving water from Nantahala National Forest (5 of 5 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Nantahala NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
134	DECATUR WATER DEPT	1 of 2	TN	2810	23663	4.7%	13.9%
135	DECATUR WATER DEPT	2 of 2	TN	2810	23663	4.7%	13.9%
136	E.I. DUPONT, NEW JOHNSONVILLE		TN	750	54936	2.7%	8.5%
137	EASTSIDE UTILITY DISTRICT		TN	48211	28660	5.1%	16.2%
138	ETOWAH UTILITIES		TN	11895	2127	17.1%	40.0%
139	FAT DADDY'S MARINA		TN	34	56389	2.6%	8.3%
140	FIRST U.D. OF HARDIN COUNTY		TN	6669	46506	3.2%	10.1%
141	GRASSHOPPER CREEK P.U.A.		TN	100	28274	5.2%	16.4%
142	HIWASSEE UTILITY COMMISSION		TN	98	3550	10.3%	38.2%
143	KINGSTON WATER SYSTEM		TN	4547	16745	6.6%	18.7%
144	LENOIR CITY UTILITY BOARD	1 of 2	TN	11445	16407	6.7%	19.1%
145	LENOIR CITY UTILITY BOARD	2 of 2	TN	11445	16407	6.7%	19.1%
146	LOUDON UTILITIES BOARD	1 of 2	TN	6141	16407	6.7%	19.1%
147	LOUDON UTILITIES BOARD	2 of 2	TN	6141	16407	6.7%	19.1%
148	NEW JOHNSONVILLE WATER DEPT		TN	2602	49180	3.0%	9.5%
149	OLIN CORPORATION		TN	624	3991	9.1%	34.0%
150	PARSONS WATER DEPARTMENT	1 of 2	TN	2038	49180	3.0%	9.5%
151	PARSONS WATER DEPARTMENT	2 of 2	TN	2038	49180	3.0%	9.5%
152	RESOLUTE FOREST PRODUCTS		TN	650	3550	10.3%	38.2%
153	RIVERSIDE CATFISH HOUSE		TN	30	30089	4.9%	15.4%
154	ROCKWOOD WATER SYSTEM		TN	9273	23139	4.8%	14.2%
155	SHADY GROVE HARBOR MARINA		TN	30	28497	5.2%	16.3%
156	SOUTH BLOUNT UTILITY DISTRICT		TN	36601	3921	27.7%	31.9%
157	SOUTH PITTSBURG WATER SYSTEM		TN	6522	31495	4.7%	14.7%
158	SPRING CITY WATER SYSTEM		TN	2554	23411	4.7%	14.0%
159	TELLICO AREA SERVICES SYSTEM		TN	9475	3921	27.7%	31.9%
160	TENN-AMERICAN WATER COMPANY		TN	185910	29964	4.9%	15.5%
161	WATTS BAR UTILITY DISTRICT	1 of 3	TN	3723	23411	4.7%	14.0%
162	WATTS BAR UTILITY DISTRICT	2 of 3	TN	3723	23411	4.7%	14.0%
163	WATTS BAR UTILITY DISTRICT	3 of 3	TN	3723	23411	4.7%	14.0%
164	WAVERLY WATER DEPARTMENT		TN	1935	54848	2.7%	8.6%

[a] This percentage includes water from Nantahala National Forest.

DRAFT

Ocala National Forest in Florida

Streams and rivers flowing from Ocala National Forest

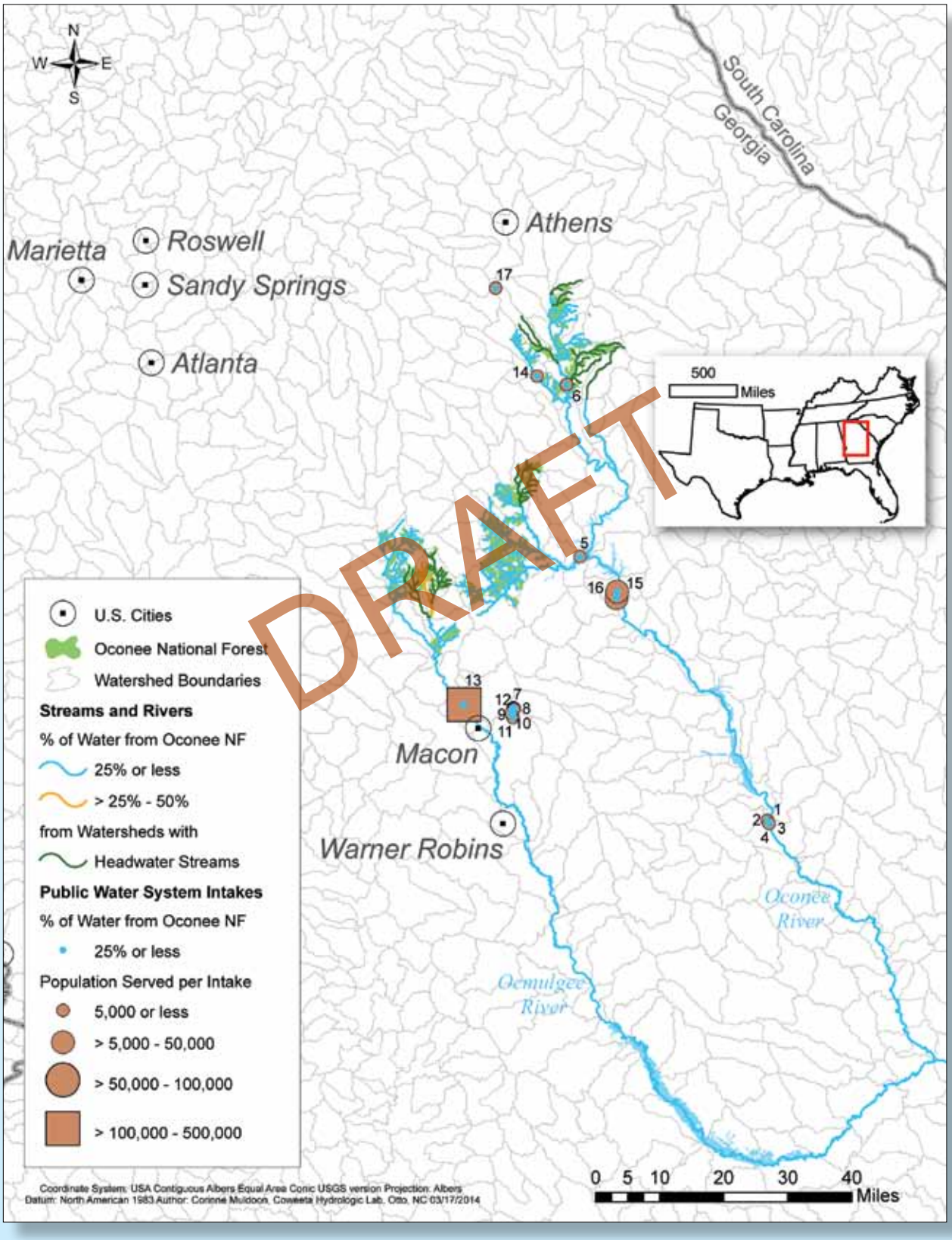
No public water system intakes receive water from Ocala National Forest

No public water system intakes receive water from Ocala National Forest; therefore, it does not have an accompanying intake summary table

DRAFT

Oconee National Forest in Georgia

Oconee National Forest and public water system intakes receiving water from Oconee National Forest



Oconee National Forest in Georgia

Public water system intakes receiving water from Oconee National Forest

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water		
					Volume available to intake	Percent from Oconee NF only	Percent from all NFS lands[a]
					millions m^3/year		
1	DUBLIN	1 of 4	GA	4375	4303	2.4%	2.4%
2	DUBLIN	2 of 4	GA	4375	4303	2.4%	2.4%
3	DUBLIN	3 of 4	GA	4375	4303	2.4%	2.4%
4	DUBLIN	4 of 4	GA	4375	4303	2.4%	2.4%
5	GEORGIA POWER-PLANT BRANCH		GA	400	2923	3.5%	3.5%
6	GREENSBORO		GA	3156	1765	2.1%	2.2%
7	JONES COUNTY	1 of 6	GA	1093	3536	1.2%	1.2%
8	JONES COUNTY	2 of 6	GA	1093	3536	1.2%	1.2%
9	JONES COUNTY	3 of 6	GA	1093	3536	1.2%	1.2%
10	JONES COUNTY	4 of 6	GA	1093	3536	1.2%	1.2%
11	JONES COUNTY	5 of 6	GA	1093	3536	1.2%	1.2%
12	JONES COUNTY	6 of 6	GA	1093	3536	1.2%	1.2%
13	MACON WATER AUTHORITY		GA	127239	2821	1.5%	1.5%
14	MADISON		GA	2608	513	1.2%	1.2%
15	MILLEDGEVILLE	1 of 2	GA	9728	2952	3.5%	3.5%
16	MILLEDGEVILLE	2 of 2	GA	9728	2952	3.5%	3.5%
17	OCONEE CO.-WATKINSVILLE		GA	1923	28	12.5%	12.5%

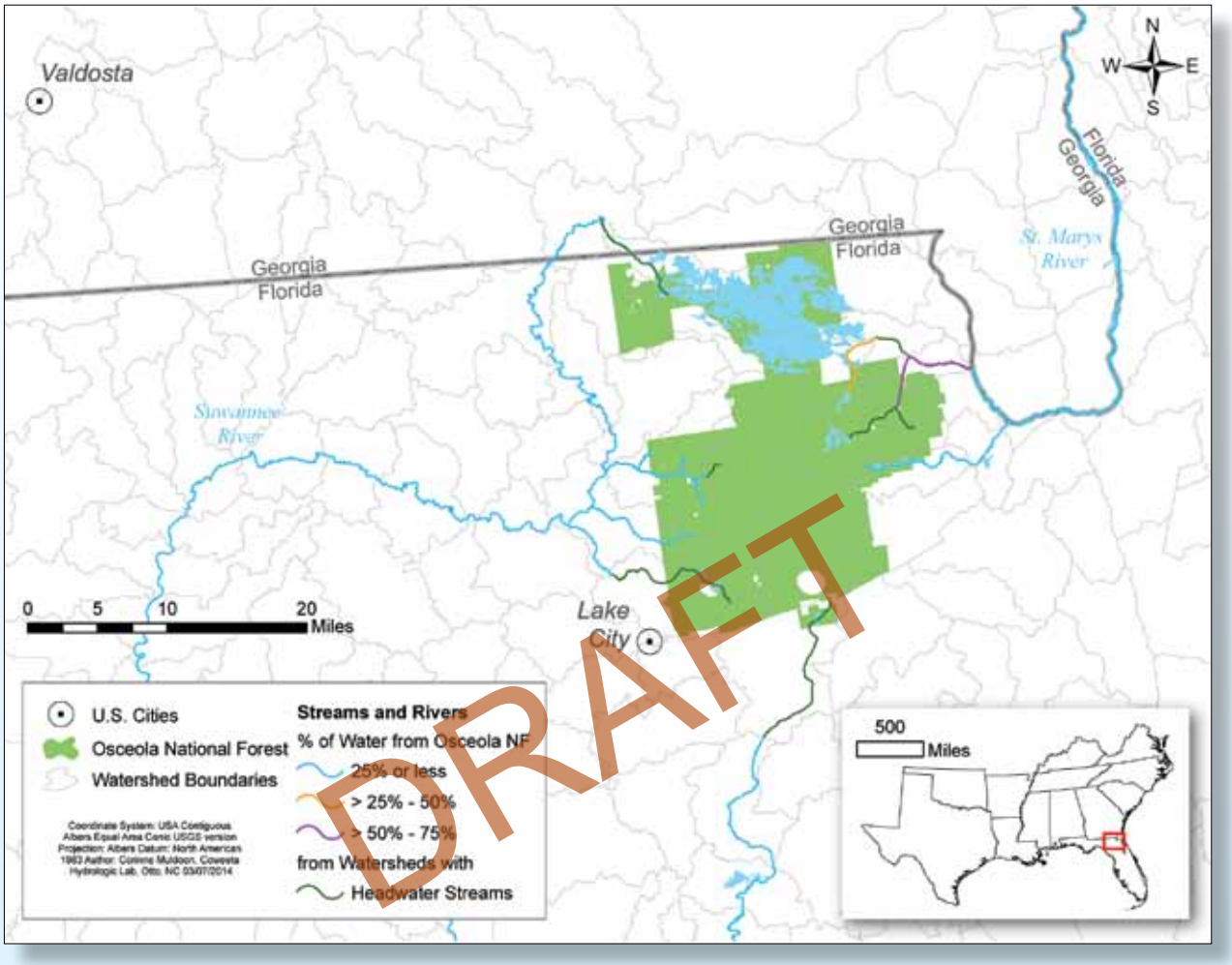
[a] This percentage includes water from Oconee National Forest.

DRAFT

Osceola National Forest in Arkansas and Oklahoma

Streams and rivers flowing from Osceola National Forest

No public water system intakes receive water from Osceola National Forest in Arkansas and Oklahoma.

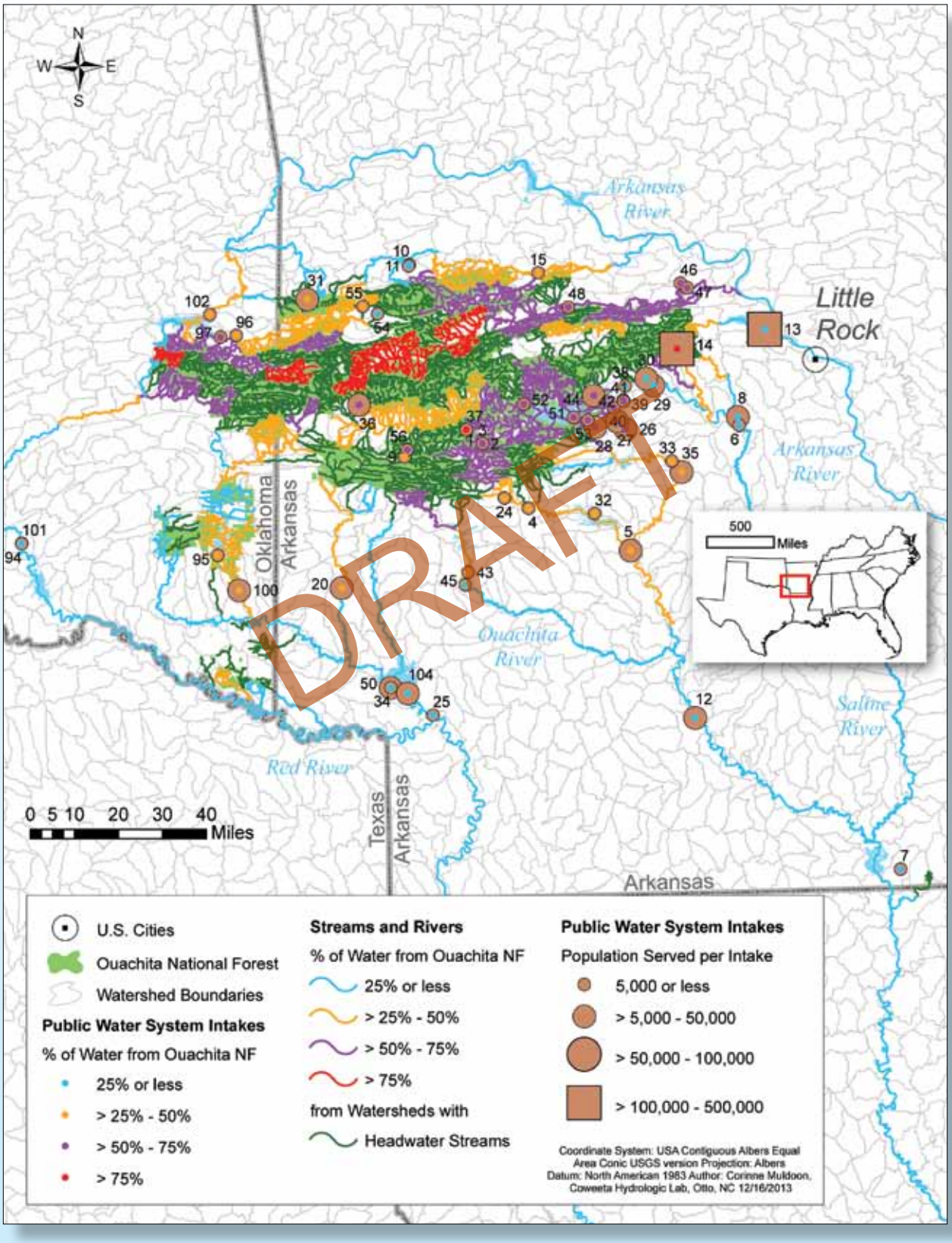


No public water system intakes receive water from Osceola National Forest; therefore, it does not have an accompanying intake summary table.

DRAFT

Ouachita National Forest in Arkansas and Oklahoma

Ouachita National Forest and public water system intakes receiving more than 10% annual water supply from Ouachita National Forest



Ouachita National Forest in Arkansas and Oklahoma

Public water system intakes receiving water from Ouachita National Forest (1 of 3 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Ouachita NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
1	ALEXA SPRINGS WATER COMPANY	1 of 3	AR	8	147	70.5%	70.5%
2	ALEXA SPRINGS WATER COMPANY	2 of 3	AR	8	147	70.5%	70.5%
3	ALEXA SPRINGS WATER COMPANY	3 of 3	AR	8	147	70.5%	70.5%
4	AMITY WATERWORKS		AR	765	502	40.8%	40.8%
5	ARKADELPHIA WATERWORKS		AR	16000	3868	34.3%	34.3%
6	ARKANSAS HEALTH CENTER		AR	1600	936	14.9%	14.9%
7	ASHLEY MINERAL SPRING		AR	25	15751	10.2%	10.2%
8	BENTON WATERWORKS		AR	18100	936	14.9%	14.9%
9	BLACK BEAR SPRINGS		AR	25	63	49.3%	49.3%
10	BOONEVILLE DEVELOPMENT CENTER	1 of 2	AR	138	281	18.6%	18.6%
11	BOONEVILLE DEVELOPMENT CENTER	2 of 2	AR	138	281	18.6%	18.6%
12	CAMDEN WATERWORKS		AR	14447	8154	18.0%	18.0%
13	CENTRAL ARKANSAS WATER	1 of 2	AR	104529	200	20.7%	20.7%
14	CENTRAL ARKANSAS WATER	2 of 2	AR	104529	94	84.0%	84.0%
15	DANVILLE WATERWORKS		AR	1353	984	31.0%	37.0%
16	DARDANELLE WATERWORKS	1 of 4	AR	425	57323	0.8%	4.9%
17	DARDANELLE WATERWORKS	2 of 4	AR	425	57323	0.8%	4.9%
18	DARDANELLE WATERWORKS	3 of 4	AR	425	57323	0.8%	4.9%
19	DARDANELLE WATERWORKS	4 of 4	AR	425	57323	0.8%	4.9%
20	DEQUEEN WATER WORK		AR	6215	572	25.4%	25.4%
21	DIERKS WATER WORKS		AR	1795	175	8.0%	8.0%
22	FOUNTAIN HILL WATERWORKS	1 of 2	AR	452	3928	3.5%	3.5%
23	FOUNTAIN HILL WATERWORKS	2 of 2	AR	452	3928	3.5%	3.5%
24	GLENWOOD WATER DEPARTMENT		AR	3982	366	48.5%	48.5%
25	HOPE WATER LIGHT COMM		AR	1150	5484	10.6%	10.6%
26	HOT SPRINGS UTILITIES	1 of 3	AR	30015	2153	52.0%	52.0%
27	HOT SPRINGS UTILITIES	2 of 3	AR	30015	2153	52.0%	52.0%
28	HOT SPRINGS UTILITIES	3 of 3	AR	30015	1879	55.0%	55.0%
29	HOT SPRINGS VILLAGE WATERWORKS	1 of 2	AR	7500	173	10.8%	10.8%
30	HOT SPRINGS VILLAGE WATERWORKS	2 of 2	AR	7500	173	10.8%	10.8%
31	JAMES FORK REGIONAL WATER DISTRICT		AR	10935	25	39.4%	39.4%
32	KIMZEY REGIONAL WATER DISTRICT	1 of 2	AR	3714	738	27.7%	27.7%
33	KIMZEY REGIONAL WATER DISTRICT	2 of 2	AR	3714	2604	43.1%	43.1%
34	LITTLE RIVER CO RDA		AR	4279	5342	10.9%	10.9%

(Continued)

DRAFT

Ouachita National Forest in Arkansas and Oklahoma

(Continued) Public water system intakes receiving water from Ouachita National Forest (2 of 3 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Ouachita NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
35	MALVERN WATERWORKS		AR	8958	2604	43.1%	43.1%
36	MENA WATER DEPARTMENT		AR	6090	67	70.1%	70.1%
37	MONTGONERY CO REGIONAL PWA		AR	63	73	82.5%	82.5%
38	MT VALLEY SPRING CO	1 of 5	AR	4	85	22.0%	22.0%
39	MT VALLEY SPRING CO	2 of 5	AR	4	1879	55.0%	55.0%
40	MT VALLEY SPRING CO	3 of 5	AR	4	1879	55.0%	55.0%
41	MT VALLEY SPRING CO	4 of 5	AR	4	1879	55.0%	55.0%
42	MT VALLEY SPRING CO	5 of 5	AR	4	1879	55.0%	55.0%
43	MURFREESBORO WATERWORKS		AR	1819	428	32.1%	32.1%
44	N GARLAND CO REG WATER DIST		AR	6455	1795	56.7%	56.7%
45	NASHVILLE WATERWORKS		AR	2643	678	20.3%	20.3%
46	PERRYVILLE WATERWORKS	1 of 2	AR	2117	1530	58.0%	58.0%
47	PERRYVILLE WATERWORKS	2 of 2	AR	2117	1530	58.0%	58.0%
48	PLAINVIEW WATER DEPARTMENT		AR	1063	980	67.7%	67.7%
49	PRESCOTT WATERWORKS		AR	5198	2018	6.8%	6.8%
50	TEXARKANA WATER UTILITIES		AR	28775	5342	10.9%	10.9%
51	USCOE OC - BRADY MTN		AR	100	1648	57.5%	57.5%
52	USCOE OC - LITTLE FIR		AR	100	982	52.4%	52.4%
53	USCOE OC - SPILLWAY		AR	100	1795	56.7%	56.7%
54	WALDRON WATERWORKS	1 of 2	AR	2178	34	24.6%	24.7%
55	WALDRON WATERWORKS	2 of 2	AR	2178	19	31.0%	31.1%
56	WILDERNESS VALLEY SPRING		AR	25	59	63.8%	63.8%
57	BELLE CHASSE WATER DISTRICT		LA	17391	772320	0.2%	4.9%
58	BOSSIER CITY WATER SYSTEM, CITY OF	1 of 3	LA	19870	29789	2.6%	2.7%
59	BOSSIER CITY WATER SYSTEM, CITY OF	2 of 3	LA	19870	29789	2.6%	2.7%
60	BOSSIER CITY WATER SYSTEM, CITY OF	3 of 3	LA	19870	29789	2.6%	2.7%
61	DALCOUR WATERWORKS DIST		LA	2666	772320	0.2%	4.9%
62	DOMINO SUGAR		LA	360	772320	0.2%	4.9%
63	DOW USA, LA DIVISION		LA	3960	772104	0.2%	4.9%
64	E JEFFERSON WW DIST NO 1		LA	308362	772320	0.2%	4.9%
65	FERRIDAY TOWN OF		LA	3698	768538	0.2%	4.9%
66	GRAMERCY WATERWORKS		LA	2800	772210	0.2%	4.9%
67	GRETNA WATERWORKS		LA	17500	772320	0.2%	4.9%
68	LUTCHER WATERWORKS		LA	4781	772210	0.2%	4.9%
69	MARATHON PETROLEUM COMPANY LLC		LA	817	772210	0.2%	4.9%

(Continued)

DRAFT

Ouachita National Forest in Arkansas and Oklahoma

(Continued) Public water system intakes receiving water from Ouachita National Forest (3 of 3 pages)

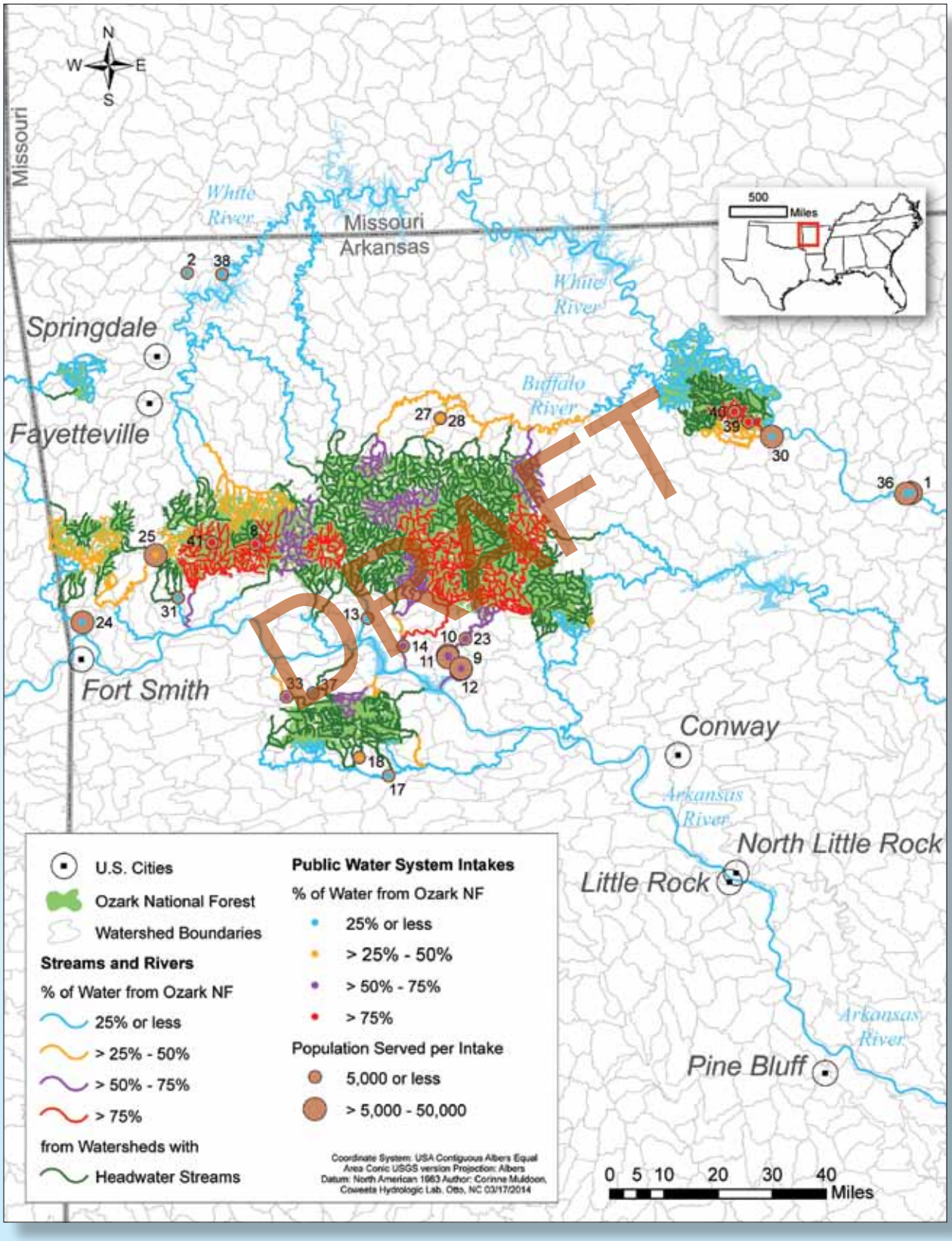
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Ouachita NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
70	MONROE WATER SYSTEM		LA	26286	21806	7.4%	7.5%
71	MORGAN CITY WATER SYSTEM		LA	6352	86718	2.8%	3.9%
72	NEW ORLEANS ALGIERS WW	1 of 2	LA	29120	772320	0.2%	4.9%
73	NEW ORLEANS ALGIERS WW	2 of 2	LA	29120	772320	0.2%	4.9%
74	NEW ORLEANS CARROLLTON WW	1 of 2	LA	214000	772320	0.2%	4.9%
75	NEW ORLEANS CARROLLTON WW	2 of 2	LA	214000	772320	0.2%	4.9%
76	NORANDA ALUMINA, LLC		LA	500	772210	0.2%	4.9%
77	ORMET CORPORATION		LA	65	772210	0.2%	4.9%
78	POINTE A LA HACHE W S		LA	1400	772320	0.2%	4.9%
79	PORT SULPHUR WATER DIST	1 of 2	LA	4461	772373	0.2%	4.9%
80	PORT SULPHUR WATER DIST	2 of 2	LA	4461	772320	0.2%	4.9%
81	SHELL CHEMICAL COMPANY		LA	675	772210	0.2%	4.9%
82	ST BERNARD PAR WATERWORK		LA	33000	772320	0.2%	4.9%
83	ST CHARLES WATER DIST NO 1 EB		LA	29517	772320	0.2%	4.9%
84	ST CHARLES WATER DIST NO 2 WB		LA	31485	772320	0.2%	4.9%
85	ST JAMES WATER DIST NO 1		LA	6120	772210	0.2%	4.9%
86	ST JAMES WATER DIST NO 2		LA	9000	772210	0.2%	4.9%
87	ST JOHN WATER DIST NO 1		LA	14670	772210	0.2%	4.9%
88	ST JOHN WATER DIST NO 2		LA	3702	772210	0.2%	4.9%
89	ST MARY PARISH WW DIST NO 5		LA	7500	83499	2.9%	4.1%
90	W JEFFERSON WW DIST NO 2	1 of 2	LA	104986	772320	0.2%	4.9%
91	W JEFFERSON WW DIST NO 2	2 of 2	LA	104986	772320	0.2%	4.9%
92	WATER & SEWER COMMISSION #4 OF ST MARY		LA	4674	83550	2.9%	4.1%
93	WESTWEGO WATERWORKS		LA	8534	772320	0.2%	4.9%
94	ANTLERS		OK	2600	1664	10.6%	10.6%
95	BROKEN BOW PWA		OK	4320	1159	27.1%	27.2%
96	HEAVENER UTILITY AUTH - PSG	1 of 2	OK	1650	390	36.9%	36.9%
97	HEAVENER UTILITY AUTH - PSG	2 of 2	OK	1650	723	51.7%	51.7%
98	HUGO		OK	5536	1933	9.1%	9.1%
99	IDABEL PUBLIC WORKS AUTHORITY		OK	6952	1461	5.0%	5.0%
100	MCCURTAIN CO RWD #8 (MT. FORK WATER)		OK	5685	1212	27.5%	27.6%
101	PUSHMATAHA CO RWD #3		OK	4825	1664	10.6%	10.6%
102	PVIA		OK	10	1240	36.7%	36.7%
103	WESTERN FARMERS		OK	86	1933	9.1%	9.1%
104	CITY OF TEXARKANA		TX	19839	5342	10.9%	10.9%

[a] This percentage includes water from Ouachita National Forest.

DRAFT

Ozark National Forest in Arkansas

Ozark National Forest and public water system intakes receiving more than 5% annual water supply from Ozark National Forest



Ozark National Forest in Arkansas

Public water system intakes receiving water from Ozark National Forest (1 of 3 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Ozark NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
1	BATESVILLE WATER UTILITIES		AR	11245	12290	5.1%	8.9%
2	BENTON CO WATER		AR	4952	1201	6.5%	6.6%
3	CALICO ROCK WATERWORKS	1 of 5	AR	410	10990	4.5%	8.8%
4	CALICO ROCK WATERWORKS	2 of 5	AR	410	10990	4.5%	8.8%
5	CALICO ROCK WATERWORKS	3 of 5	AR	410	10990	4.5%	8.8%
6	CALICO ROCK WATERWORKS	4 of 5	AR	410	10990	4.5%	8.8%
7	CALICO ROCK WATERWORKS	5 of 5	AR	410	10990	4.5%	8.8%
8	CASS C C C		AR	264	426	76.5%	76.6%
9	CITY CORPORATION	1 of 4	AR	7405	457	55.7%	55.7%
10	CITY CORPORATION	2 of 4	AR	7405	433	58.7%	58.7%
11	CITY CORPORATION	3 of 4	AR	7405	433	58.7%	58.7%
12	CITY CORPORATION	4 of 4	AR	7405	433	58.7%	58.7%
13	CLARKSVILLE WATERWORKS	1 of 2	AR	4052	142	14.1%	14.1%
14	CLARKSVILLE WATERWORKS	2 of 2	AR	4052	708	63.2%	63.3%
15	CLINTON WATERWORKS		AR	5445	566	5.0%	5.0%
16	COMMUNITY WATER SYSTEM		AR	15257	1560	1.8%	1.8%
17	DANVILLE WATERWORKS	1 of 2	AR	1353	978	5.7%	37.0%
18	DANVILLE WATERWORKS	2 of 2	AR	1353	42	28.8%	28.8%
19	DARDANELLE WATERWORKS	1 of 4	AR	425	57250	2.5%	4.9%
20	DARDANELLE WATERWORKS	2 of 4	AR	425	57250	2.5%	4.9%
21	DARDANELLE WATERWORKS	3 of 4	AR	425	57250	2.5%	4.9%
22	DARDANELLE WATERWORKS	4 of 4	AR	425	57250	2.5%	4.9%
23	DOVER WATERWORKS		AR	1800	360	70.6%	70.6%
24	FORT SMITH WATER UTILITIES	1 of 2	AR	40129	537	17.0%	17.0%
25	FORT SMITH WATER UTILITIES	2 of 2	AR	40129	171	35.5%	35.5%
26	HERBER SPRINGS WATER SYSTEM		AR	10914	1631	1.7%	1.7%
27	JASPER WATERWORKS	1 of 2	AR	383	185	26.8%	26.9%
28	JASPER WATERWORKS	2 of 2	AR	383	185	26.8%	26.9%
29	MARION COUNTY REG WATER DIST		AR	2	6343	1.5%	6.4%
30	MOUNTAIN VIEW WATERWORKS		AR	7063	11395	5.5%	9.7%
31	MULBERRY WATERWORKS		AR	1608	29	16.1%	16.1%
32	PANGBURN WATERWORKS		AR	2500	1929	1.5%	1.5%
33	PARIS WATERWORKS		AR	4473	61	56.4%	56.5%
34	SEARCY WATERWORKS		AR	22036	2428	1.2%	1.2%
35	SILOAM SPRINGS WATERWORKS		AR	16767	649	3.1%	3.1%
36	SOUTHSIDE PUB WATER AUTHORITY		AR	8827	12076	5.2%	9.1%
37	SUBIACO ACADEMY WATERWORKS		AR	250	322	10.7%	10.7%
38	THE INN AT LOST BRIDGE		AR	25	1322	5.9%	6.0%
39	USFS BLANCHARD		AR	25	83	93.0%	93.1%
40	USFS GUNNER POOL		AR	25	83	93.0%	93.1%
41	USFS WHITE ROCK		AR	35	494	78.4%	78.5%

(Continued)

DRAFT

Ozark National Forest in Arkansas

(Continued) Public water system intakes receiving water from Ozark National Forest (2 of 3 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Ozark NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
42	WAGON WHEEL RESTAURANT		AR	150	5794	1.6%	6.0%
43	WHITE RIVER CAMPGROUND		AR	250	6472	1.4%	6.2%
44	BELLE CHASSE WATER DISTRICT		LA	17391	766843	0.3%	4.9%
45	DALCOUR WATERWORKS DIST		LA	2666	766843	0.3%	4.9%
46	DOMINO SUGAR		LA	360	766843	0.3%	4.9%
47	DOW USA, LA DIVISION		LA	3960	766628	0.3%	4.9%
48	E JEFFERSON WW DIST NO 1		LA	308362	766843	0.3%	4.9%
49	FERRIDAY TOWN OF		LA	3698	763064	0.3%	4.9%
50	GRAMERCY WATERWORKS		LA	2800	766733	0.3%	4.9%
51	GRETNA WATERWORKS		LA	17500	766843	0.3%	4.9%
52	LUTCHER WATERWORKS		LA	4781	766733	0.3%	4.9%
53	MARATHON PETROLEUM COMPANY LLC		LA	817	766733	0.3%	4.9%
54	NEW ORLEANS ALGIERS WW	1 of 2	LA	29120	766843	0.3%	4.9%
55	NEW ORLEANS ALGIERS WW	2 of 2	LA	29120	766843	0.3%	4.9%
56	NEW ORLEANS CARROLLTON WW	1 of 2	LA	214000	766843	0.3%	4.9%
57	NEW ORLEANS CARROLLTON WW	2 of 2	LA	214000	766843	0.3%	4.9%
58	NORANDA ALUMINA, LLC		LA	500	766733	0.3%	4.9%
59	ORMET CORPORATION		LA	65	766733	0.3%	4.9%
60	POINTE A LA HACHE W S		LA	1400	766843	0.3%	4.9%
61	PORT SULPHUR WATER DIST	1 of 2	LA	4461	766896	0.3%	4.9%
62	PORT SULPHUR WATER DIST	2 of 2	LA	4461	766843	0.3%	4.9%
63	SHELL CHEMICAL COMPANY		LA	675	766733	0.3%	4.9%
64	ST BERNARD PAR WATERWORK		LA	33000	766843	0.3%	4.9%
65	ST CHARLES WATER DIST NO 1 EB		LA	29517	766843	0.3%	4.9%
66	ST CHARLES WATER DIST NO 2 WB		LA	31485	766843	0.3%	4.9%
67	ST JAMES WATER DIST NO 1		LA	6120	766733	0.3%	4.9%
68	ST JAMES WATER DIST NO 2		LA	9000	766733	0.3%	4.9%
69	ST JOHN WATER DIST NO 1		LA	14670	766733	0.3%	4.9%
70	ST JOHN WATER DIST NO 2		LA	3702	766733	0.3%	4.9%
71	W JEFFERSON WW DIST NO 2	1 of 2	LA	104986	766843	0.3%	4.9%
72	W JEFFERSON WW DIST NO 2	2 of 2	LA	104986	766843	0.3%	4.9%
73	WESTWEGO WATERWORKS		LA	8534	766843	0.3%	4.9%
74	BURNT CABIN RWD		OK	208	1585	1.4%	1.4%
75	CHEROKEE CO RWD # 2 (KEYS)		OK	1493	1527	1.4%	1.4%
76	CHEROKEE CO RWD #13		OK	1640	1527	1.4%	1.4%
77	EAST CENTRAL OKLA WATER AUTH		OK	1200	1585	1.4%	1.4%
78	FIN & FEATHER RESORT		OK	150	1585	1.4%	1.4%
79	FLINT RIDGE RURAL WATER DISTRICT	1 of 2	OK	750	859	2.3%	2.3%

(Continued)

DRAFT

Ozark National Forest in Arkansas

(Continued) Public water system intakes receiving water from Ozark National Forest (3 of 3 pages)

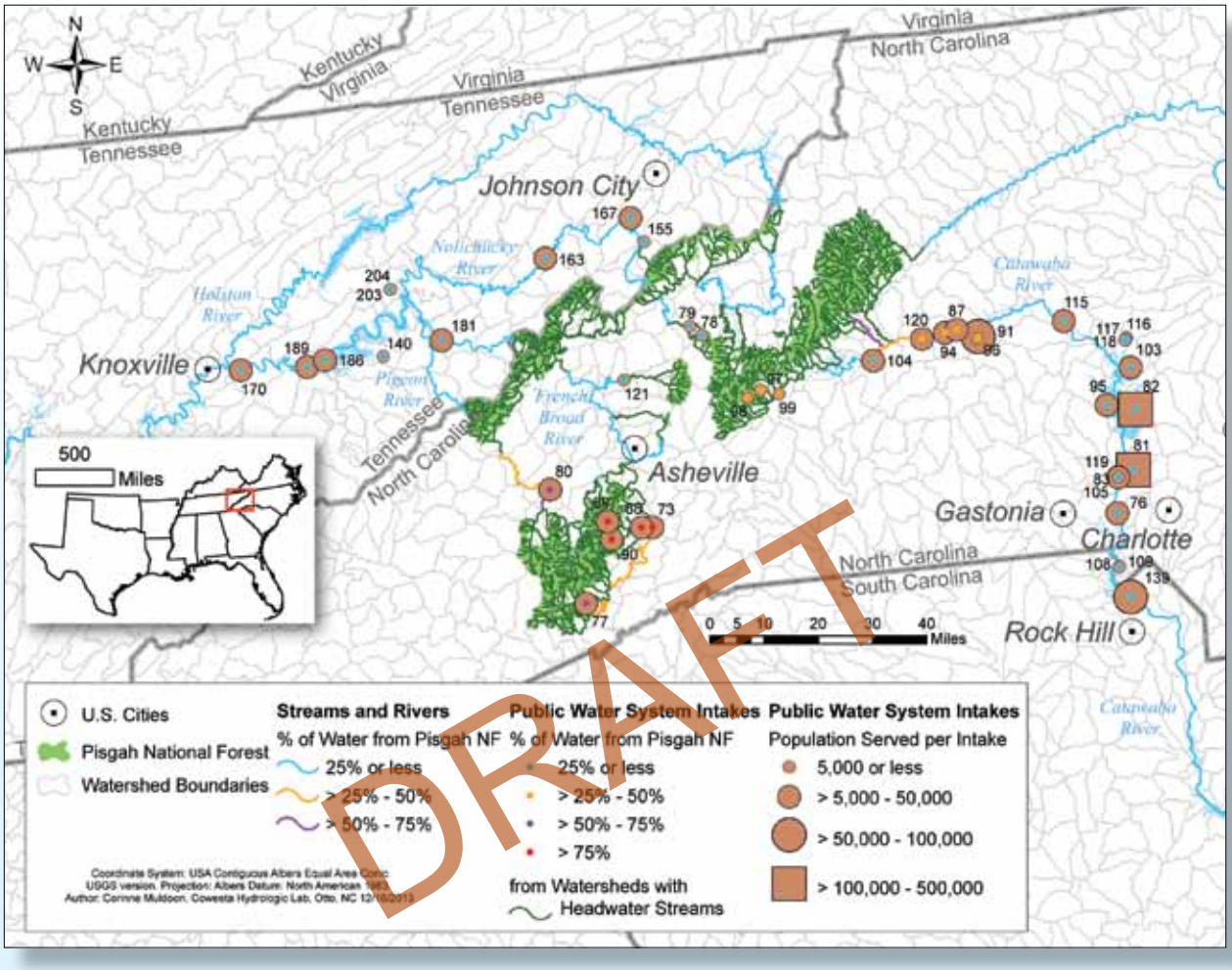
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Ozark NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
80	FLINT RIDGE RURAL WATER DISTRICT	2 of 2	OK	750	859	2.3%	2.3%
81	GORE PWA		OK	1688	1585	1.4%	1.4%
82	LRED (CHICKEN CREEK)		OK	272	1585	1.4%	1.4%
83	LRED (LAKEWOOD)		OK	200	1527	1.4%	1.4%
84	LRED (WILDCAT)		OK	200	1527	1.4%	1.4%
85	LRED (WOODHAVEN)		OK	200	1585	1.4%	1.4%
86	MONGOLDS WATER SYSTEM		OK	30	1585	1.4%	1.4%
87	PETTIT BAY RESORT		OK	30	1527	1.4%	1.4%
88	PETTIT MT WATER		OK	90	1527	1.4%	1.4%
89	SEQUOYAH CO RWD # 5		OK	1075	1630	1.3%	1.3%
90	SEQUOYAH COUNTY WATER ASSOC		OK	13460	1585	1.4%	1.4%
91	SPARROWHAWK CAMP		OK	200	941	2.1%	2.1%
92	STILWELL		OK	1092	160	1.0%	1.0%
93	TAHLEQUAH PWA		OK	14458	971	2.1%	2.1%
94	TENKILLER AQUA PARK		OK	150	1585	1.4%	1.4%
95	TENKILLER UTILITY CO		OK	860	1585	1.4%	1.4%

[a] This percentage includes water from Ozark National Forest.

DRAFT

Pisgah National Forest in North Carolina

Pisgah National Forest and public water system intakes receiving more than 10% annual water supply from Pisgah National Forest



Pisgah National Forest in North Carolina

Public water system intakes receiving water from Pisgah National Forest (1 of 5 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Pisgah NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
1	ALBERTVILLE UTILITIES BOARD		AL	30186	33743	2.6%	13.8%
2	ARAB WATER WORKS BOARD		AL	17576	34002	2.6%	13.7%
3	BRIDGEPORT UTILITIES BOARD		AL	6000	31480	2.8%	14.7%
4	CHEROKEE WATER & GAS DEPARTMENT		AL	2250	44324	2.0%	10.6%
5	COLBERT COUNTY RURAL WATER SYSTEM		AL	10731	44222	2.0%	10.6%
6	DECATUR (MUNICIPAL UTILITIES BOARD OF)		AL	77100	37771	2.3%	12.4%
7	DEKALB-JACKSON WATER SUPPLY DISTRICT		AL	40	31698	2.8%	14.6%
8	FLORENCE WATER-WASTEWATER DEPARTMENT	1 of 2	AL	16725	43327	2.0%	10.8%
9	FLORENCE WATER-WASTEWATER DEPARTMENT	2 of 2	AL	16725	43327	2.0%	10.8%
10	FORT PAYNE WATER WORKS BOARD		AL	7248	32789	2.7%	14.2%
11	GREENHILL WATER & FIRE PRO AUTHORITY	1 of 2	AL	3855	43327	2.0%	10.8%
12	GREENHILL WATER & FIRE PRO AUTHORITY	2 of 2	AL	3855	43327	2.0%	10.8%
13	GUNTERSVILLE WATER WORKS & SEWER BOARD	1 of 2	AL	6375	34002	2.6%	13.7%
14	GUNTERSVILLE WATER WORKS & SEWER BOARD	2 of 2	AL	6375	34002	2.6%	13.7%
15	HUNTSVILLE UTILITIES	1 of 2	AL	31310	35722	2.4%	13.0%
16	HUNTSVILLE UTILITIES	2 of 2	AL	31310	36889	2.4%	12.6%
17	LIMESTONE COUNTY WATER SYSTEM		AL	14625	37964	2.3%	12.3%
18	NORTH MARSHALL UTILITIES	1 of 2	AL	6185	34002	2.6%	13.7%
19	NORTH MARSHALL UTILITIES	2 of 2	AL	6185	34002	2.6%	13.7%
20	NORTHEAST ALABAMA WATER SYSTEM	1 of 3	AL	9375	32789	2.7%	14.2%
21	NORTHEAST ALABAMA WATER SYSTEM	2 of 3	AL	9375	32789	2.7%	14.2%
22	NORTHEAST ALABAMA WATER SYSTEM	3 of 3	AL	9375	33743	2.6%	13.8%
23	SCOTTSBORO WATER WORKS	1 of 2	AL	10950	32789	2.7%	14.2%
24	SCOTTSBORO WATER WORKS	2 of 2	AL	10950	32789	2.7%	14.2%
25	SECTION-DUTTON WATER SYSTEM		AL	32682	32789	2.7%	14.2%
26	SHEFFIELD UTILITIES DEPARTMENT		AL	14574	44222	2.0%	10.6%
27	US ARMY AVIATION & MISSILE COMMAND	1 of 2	AL	14250	35722	2.4%	13.0%
28	US ARMY AVIATION & MISSILE COMMAND	2 of 2	AL	14250	35722	2.4%	13.0%
29	WEST MORGAN-EAST LAWRENCE WATER AUTHORIT		AL	26130	38097	2.3%	12.3%
30	WISE ALLOYS LLC WATER SYSTEM		AL	2400	43327	2.0%	10.8%
31	PADUCAH WATER WORKS	1 of 5	KY	8002	297492	0.3%	4.2%
32	PADUCAH WATER WORKS	2 of 5	KY	8002	57997	1.5%	8.3%
33	PADUCAH WATER WORKS	3 of 5	KY	8002	57997	1.5%	8.3%

(Continued)

DRAFT

Pisgah National Forest in North Carolina

(Continued) Public water system intakes receiving water from Pisgah National Forest (2 of 5 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Pisgah NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
34	PADUCAH WATER WORKS	4 of 5	KY	8002	57997	1.5%	8.3%
35	PADUCAH WATER WORKS	5 of 5	KY	8002	57997	1.5%	8.3%
36	US ENRICHMENT CORP		KY	2000	297857	0.3%	4.2%
37	BELLE CHASSE WATER DISTRICT		LA	17391	772398	0.1%	4.9%
38	DALCOUR WATERWORKS DIST		LA	2666	772398	0.1%	4.9%
39	DOMINO SUGAR		LA	360	772398	0.1%	4.9%
40	DOW USA, LA DIVISION		LA	3960	772182	0.1%	4.9%
41	E JEFFERSON WW DIST NO 1		LA	308362	772398	0.1%	4.9%
42	FERRIDAY TOWN OF		LA	3698	768616	0.1%	4.9%
43	GRAMERCY WATERWORKS		LA	2800	772288	0.1%	4.9%
44	GRETNA WATERWORKS		LA	17500	772398	0.1%	4.9%
45	LUTCHER WATERWORKS		LA	4781	772288	0.1%	4.9%
46	MARATHON PETROLEUM COMPANY LLC		LA	817	772288	0.1%	4.9%
47	NEW ORLEANS ALGIERS WW	1 of 2	LA	29120	772398	0.1%	4.9%
48	NEW ORLEANS ALGIERS WW	2 of 2	LA	29120	772398	0.1%	4.9%
49	NEW ORLEANS CARROLLTON WW	1 of 2	LA	214000	772398	0.1%	4.9%
50	NEW ORLEANS CARROLLTON WW	2 of 2	LA	214000	772398	0.1%	4.9%
51	NORANDA ALUMINA, LLC		LA	500	772288	0.1%	4.9%
52	ORMET CORPORATION		LA	65	772288	0.1%	4.9%
53	POINTE A LA HACHE W S		LA	1400	772398	0.1%	4.9%
54	PORT SULPHUR WATER DIST	1 of 2	LA	4461	772398	0.1%	4.9%
55	PORT SULPHUR WATER DIST	2 of 2	LA	4461	772451	0.1%	4.9%
56	SHELL CHEMICAL COMPANY		LA	675	772288	0.1%	4.9%
57	ST BERNARD PAR WATERWORK		LA	33000	772398	0.1%	4.9%
58	ST CHARLES WATER DIST NO 1 EB		LA	29517	772398	0.1%	4.9%
59	ST CHARLES WATER DIST NO 2 WB		LA	31485	772398	0.1%	4.9%
60	ST JAMES WATER DIST NO 1		LA	6120	772288	0.1%	4.9%
61	ST JAMES WATER DIST NO 2		LA	9000	772288	0.1%	4.9%
62	ST JOHN WATER DIST NO 1		LA	14670	772288	0.1%	4.9%
63	ST JOHN WATER DIST NO 2		LA	3702	772288	0.1%	4.9%
64	W JEFFERSON WW DIST NO 2	1 of 2	LA	104986	772398	0.1%	4.9%
65	W JEFFERSON WW DIST NO 2	2 of 2	LA	104986	772398	0.1%	4.9%
66	WESTWEGO WATERWORKS		LA	8534	772398	0.1%	4.9%
67	SHORT COLEMAN PARK-NASA PLANT	1 of 2	MS	533	46115	1.9%	10.2%
68	SHORT COLEMAN PARK-NASA PLANT	2 of 2	MS	533	46494	1.9%	10.1%
69	ALBEMARLE, CITY OF	1 of 2	NC	8250	4407	< 0.05%	< 0.05%
70	ALBEMARLE, CITY OF	2 of 2	NC	8250	4735	< 0.05%	0.7%
71	ANSON COUNTY WATER SYSTEM		NC	13000	6546	< 0.05%	0.8%
72	ASHEVILLE CITY OF	1 of 2	NC	24860	141	75.4%	75.5%
73	ASHEVILLE CITY OF	2 of 2	NC	24860	130	1.7%	1.7%
74	BEECH MOUNTAIN, TOWN OF	1 of 2	NC	1209	342	0.9%	6.9%
75	BEECH MOUNTAIN, TOWN OF	2 of 2	NC	1209	342	0.9%	6.9%
76	BELMONT, CITY OF		NC	10076	2362	15.9%	16.0%
77	BREVARD, CITY OF		NC	8700	37	63.1%	63.1%
78	BURNSVILLE, TOWN OF	1 of 2	NC	1975	112	10.5%	10.5%

(Continued)

DRAFT

Pisgah National Forest in North Carolina

(Continued) Public water system intakes receiving water from Pisgah National Forest (3 of 5 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Pisgah NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
79	BURNSVILLE, TOWN OF	2 of 2	NC	1975	112	10.5%	10.5%
80	CANTON, TOWN OF		NC	7050	269	53.3%	53.3%
81	CHARLOTTE-MECKLENBURG UTILITY	1 of 2	NC	394095	2106	17.9%	17.9%
82	CHARLOTTE-MECKLENBURG UTILITY	2 of 2	NC	394095	2177	17.3%	17.3%
83	DALLAS, TOWN OF		NC	1699	2177	17.3%	17.3%
84	DAVIDSON WATER INC		NC	12288	2605	0.1%	0.1%
85	DAVIE COUNTY WATER SYSTEM		NC	8380	2175	0.1%	0.1%
86	DENTON, TOWN OF		NC	3080	4407	< 0.05%	< 0.05%
87	GRANITE FALLS, TOWN OF		NC	6250	1326	28.4%	28.4%
88	HENDERSONVILLE, CITY OF	1 of 3	NC	10900	88	84.1%	84.2%
89	HENDERSONVILLE, CITY OF	2 of 3	NC	10900	141	75.4%	75.5%
90	HENDERSONVILLE, CITY OF	3 of 3	NC	10900	141	75.4%	75.5%
91	HICKORY CITY OF		NC	55791	1370	27.5%	27.5%
92	JONESVILLE, TOWN OF		NC	3012	995	0.2%	0.2%
93	KING, CITY OF		NC	20490	1923	0.1%	0.1%
94	LENOIR, CITY OF		NC	19500	1326	28.4%	28.4%
95	LINCOLN COUNTY WTP		NC	24460	2031	18.5%	18.6%
96	LONGVIEW, TOWN OF		NC	1244	1370	27.5%	27.5%
97	MARION, CITY OF	1 of 3	NC	2883	191	42.8%	42.9%
98	MARION, CITY OF	2 of 3	NC	2883	158	38.4%	38.5%
99	MARION, CITY OF	3 of 3	NC	2883	158	38.4%	38.5%
100	MARS HILL, TOWN OF	1 of 2	NC	1580	45	9.4%	9.4%
101	MARS HILL, TOWN OF	2 of 2	NC	1580	45	9.4%	9.4%
102	MONTGOMERY COUNTY WATER SYSTEM		NC	14250	4813	< 0.05%	0.8%
103	MOORESVILLE TOWN OF		NC	30339	1958	19.2%	19.3%
104	MORGANTON CITY OF		NC	25500	739	23.7%	23.8%
105	MOUNT HOLLY, CITY OF		NC	13656	2177	17.3%	17.3%
106	NORWOOD, TOWN OF		NC	4690	4813	< 0.05%	0.8%
107	RICHMOND COUNTY WATER SYSTEM		NC	8470	6546	< 0.05%	0.8%
108	RIVER POINTE ESTATES	1 of 2	NC	236	3205	11.7%	11.8%
109	RIVER POINTE ESTATES	2 of 2	NC	236	3205	11.7%	11.8%
110	SALISBURY-ROWAN		NC	49000	2758	0.1%	0.1%
111	SPRUCE PINE, TOWN OF	1 of 4	NC	1250	166	5.1%	5.1%
112	SPRUCE PINE, TOWN OF	2 of 4	NC	1250	194	4.4%	4.4%
113	SPRUCE PINE, TOWN OF	3 of 4	NC	1250	194	4.4%	4.4%
114	SPRUCE PINE, TOWN OF	4 of 4	NC	1250	194	4.4%	4.4%
115	STATESVILLE, CITY OF		NC	13661	1736	21.7%	21.7%
116	TROUTMAN, TOWN OF	1 of 3	NC	902	1958	19.2%	19.3%
117	TROUTMAN, TOWN OF	2 of 3	NC	902	1958	19.2%	19.3%
118	TROUTMAN, TOWN OF	3 of 3	NC	902	1958	19.2%	19.3%
119	TWO RIVERS UTILITIES		NC	40255	2177	17.3%	17.3%
120	VALDESE, TOWN OF		NC	13700	1294	29.1%	29.1%
121	WEAVERVILLE, TOWN OF		NC	2800	164	18.2%	18.2%
122	WILKESBORO, TOWN OF		NC	3413	486	0.4%	0.4%
123	WINSTON-SALEM, CITY OF	1 of 2	NC	52129	1923	0.1%	0.1%
124	WINSTON-SALEM, CITY OF	2 of 2	NC	52129	2536	0.1%	0.1%
125	WOODFIN SANITARY WATER AND SEWER		NC	2250	35	1.7%	1.7%
126	CAMDEN CITY OF		SC	15405	4758	7.9%	7.9%
127	CASSATT WATER CO #1		SC	1624	4758	7.9%	7.9%

(Continued)

DRAFT

Pisgah National Forest in North Carolina

(Continued) Public water system intakes receiving water from Pisgah National Forest (4 of 5 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Pisgah NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
128	CATAWBA RIVER WTP		SC	25	3991	9.4%	9.4%
129	CHERAW TOWN OF		SC	5283	7237	< 0.05%	0.7%
130	CHESTER METRO		SC	14051	4544	8.3%	8.3%
131	FLORENCE CITY OF		SC	2359	7675	< 0.05%	0.7%
132	GCWSD/WACCAMAW NECK	1 of 2	SC	8447	16893	< 0.05%	0.3%
133	GCWSD/WACCAMAW NECK	2 of 2	SC	8447	16893	< 0.05%	0.3%
134	GSW&SA	1 of 2	SC	8556	13114	< 0.05%	0.4%
135	GSW&SA	2 of 2	SC	8556	13114	< 0.05%	0.4%
136	INVISTA MAY		SC	1000	5069	7.4%	7.4%
137	LAKE MARION REGIONAL WATER PLT		SC	25	14394	2.6%	3.9%
138	LUGOFF ELGIN WATER AUTH		SC	18530	4758	7.9%	7.9%
139	ROCK HILL CITY OF		SC	69764	3385	11.1%	11.1%
140	BUSH BROTHERS #3		TN	323	5763	15.1%	19.8%
141	CAMDEN WATER DEPT		TN	9667	54836	1.6%	8.6%
142	CARDERVIEW UTILITY DISTRICT	1 of 3	TN	360	580	0.5%	11.4%
143	CARDERVIEW UTILITY DISTRICT	2 of 3	TN	360	580	0.5%	11.4%
144	CARDERVIEW UTILITY DISTRICT	3 of 3	TN	360	580	0.5%	11.4%
145	CIRCLE VALLEY TRAILER PARK		TN	50	23656	3.7%	13.9%
146	CLIFTON WATER DEPT		TN	3830	48338	1.8%	9.7%
147	DAYTON WATER DEPT		TN	21235	28258	3.1%	16.4%
148	DECATUR WATER DEPT	1 of 2	TN	2810	23656	3.7%	13.9%
149	DECATUR WATER DEPT	2 of 2	TN	2810	23656	3.7%	13.9%
150	E.I. DUPONT, NEW JOHNSONVILLE		TN	750	54923	1.6%	8.5%
151	EASTSIDE UTILITY DISTRICT		TN	48211	28645	3.0%	16.2%
152	ELIZABETHTON WATER DEPT	1 of 3	TN	8964	164	0.2%	39.0%
153	ELIZABETHTON WATER DEPT	2 of 3	TN	8964	164	0.2%	39.0%
154	ELIZABETHTON WATER DEPT	3 of 3	TN	8964	977	0.3%	20.2%
155	ERWIN UTILITIES		TN	3113	1093	13.5%	22.2%
156	FAT DADDY'S MARINA		TN	34	56376	1.5%	8.3%
157	FIRST U D OF HAWKINS CO,#1	1 of 2	TN	9356	3201	0.1%	16.7%
158	FIRST U D OF HAWKINS CO,#1	2 of 2	TN	9356	3201	0.1%	16.7%
159	FIRST U.D. OF HARDIN COUNTY		TN	6669	46494	1.9%	10.1%
160	FIRST UTIL DIST OF KNOX COUNT	1 of 2	TN	40625	11682	7.5%	14.4%
161	FIRST UTIL DIST OF KNOX COUNT	2 of 2	TN	40625	11682	7.5%	14.4%
162	GRASSHOPPER CREEK P.U.A.		TN	100	28258	3.1%	16.4%
163	GREENEVILLE WATER & LIGHT COMM		TN	24361	1407	10.5%	20.8%
164	JEFFERSON CITY WATER & SEWER C	1 of 2	TN	4197	3814	0.1%	14.0%
165	JEFFERSON CITY WATER & SEWER C	2 of 2	TN	4197	3814	0.1%	14.0%
166	JOHNSON CITY WATER DEPT		TN	47998	977	0.3%	20.2%
167	JONESBOROUGH WATER DEPT		TN	26501	1185	12.5%	23.4%
168	KINGSPORT WATER DEPT		TN	91499	2365	0.1%	20.5%
169	KINGSTON WATER SYSTEM		TN	4547	16739	5.2%	18.7%
170	KNOX-CHAPMAN UTILITY DISTRICT		TN	30691	6543	13.3%	17.5%
171	KNOXVILLE UTILITIES BOARD-KUB		TN	236338	11493	7.6%	14.6%
172	LAKEVIEW UTILITY DISTRICT	1 of 2	TN	702	3376	0.1%	15.9%
173	LAKEVIEW UTILITY DISTRICT	2 of 2	TN	702	3376	0.1%	15.9%

(Continued)

DRAFT

Pisgah National Forest in North Carolina

(Continued) Public water system intakes receiving water from Pisgah National Forest (5 of 5 pages)

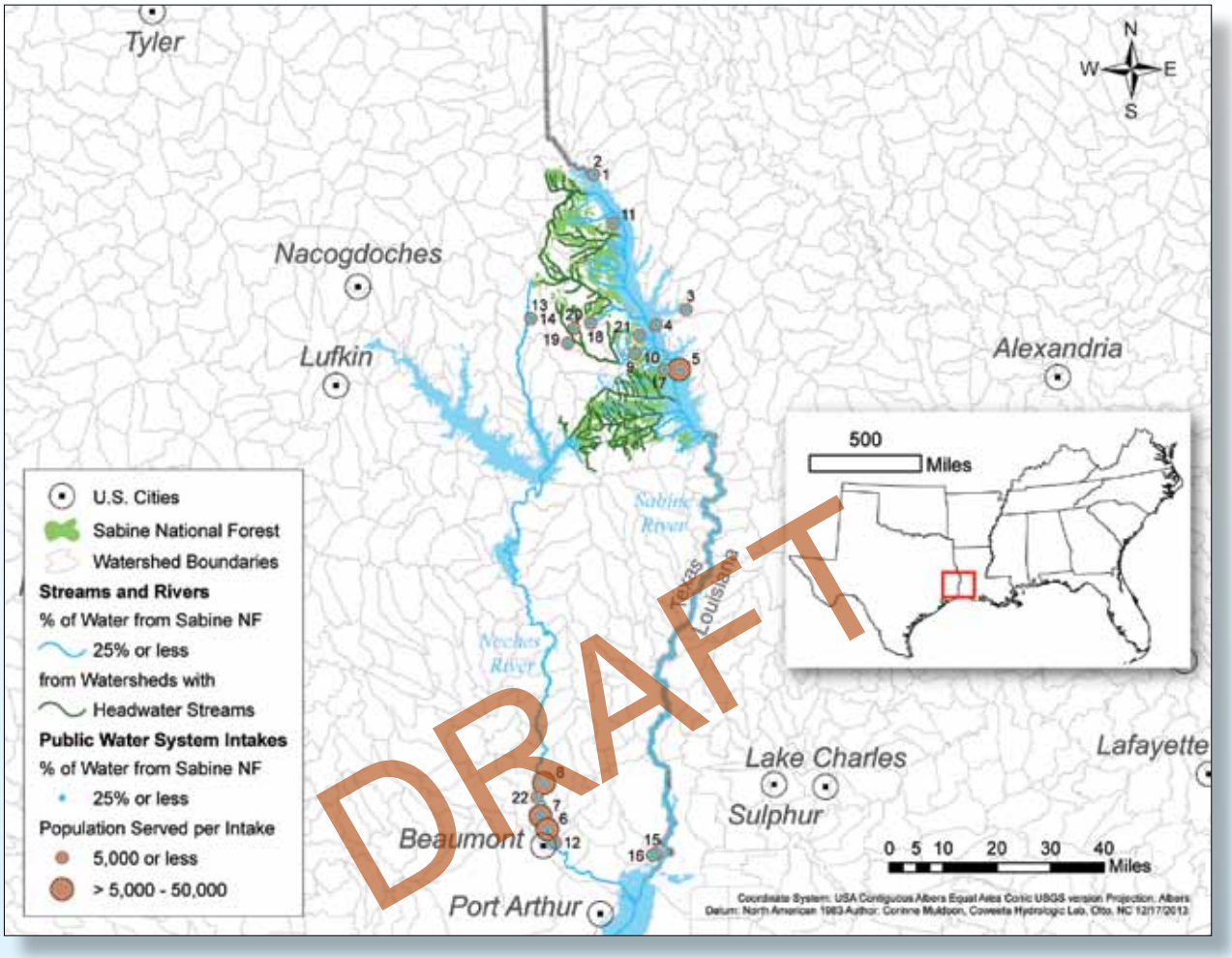
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Pisgah NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
174	LENOIR CITY UTILITY BOARD	1 of 2	TN	11445	16401	5.3%	19.1%
175	LENOIR CITY UTILITY BOARD	2 of 2	TN	11445	16401	5.3%	19.1%
176	LOUDON UTILITIES BOARD	1 of 2	TN	6141	16401	5.3%	19.1%
177	LOUDON UTILITIES BOARD	2 of 2	TN	6141	16401	5.3%	19.1%
178	LUTTRELL-BLAINE-CORRYTON U.D.		TN	1760	3851	0.1%	13.9%
179	MORRISTOWN WATER SYSTEM		TN	15509	3646	0.1%	14.7%
180	NEW JOHNSONVILLE WATER DEPT		TN	2602	49167	1.8%	9.5%
181	NEWPORT UTILITIES BOARD		TN	25037	2500	21.0%	24.5%
182	NORTHEAST KNOX U D		TN	21048	4170	0.1%	12.8%
183	PARSONS WATER DEPARTMENT	1 of 2	TN	2038	49167	1.8%	9.5%
184	PARSONS WATER DEPARTMENT	2 of 2	TN	2038	49167	1.8%	9.5%
185	PERSIA UTILITY DISTRICT		TN	4414	3441	0.1%	15.6%
186	PIGEON FORGE WATER DEPARTMENT		TN	7062	5763	15.1%	19.8%
187	RIVERSIDE CATFISH HOUSE		TN	30	30074	2.9%	15.4%
188	ROCKWOOD WATER SYSTEM		TN	9273	23132	3.8%	14.2%
189	SEVIERVILLE WATER SYSTEM		TN	31278	6457	13.5%	17.7%
190	SHADY GROVE HARBOR MARINA		TN	30	28481	3.1%	16.3%
191	SIAM UTILITY DISTRICT	1 of 3	TN	862	977	0.3%	20.2%
192	SIAM UTILITY DISTRICT	2 of 3	TN	862	977	0.3%	20.2%
193	SIAM UTILITY DISTRICT	3 of 3	TN	862	977	0.3%	20.2%
194	SOUTH PITTSBURG WATER SYSTEM		TN	6522	31480	2.8%	14.7%
195	SPRING CITY WATER SYSTEM		TN	2554	23405	3.7%	14.0%
196	SURGOINSVILLE UTILITY DISTRICT	1 of 2	TN	1179	3376	0.1%	15.9%
197	SURGOINSVILLE UTILITY DISTRICT	2 of 2	TN	1179	3376	0.1%	15.9%
198	TENN-AMERICAN WATER COMPANY		TN	185910	29949	2.9%	15.5%
199	WATTS BAR UTILITY DISTRICT	1 of 3	TN	3723	23405	3.7%	14.0%
200	WATTS BAR UTILITY DISTRICT	2 of 3	TN	3723	23405	3.7%	14.0%
201	WATTS BAR UTILITY DISTRICT	3 of 3	TN	3723	23405	3.7%	14.0%
202	WAVERLY WATER DEPARTMENT		TN	1935	54836	1.6%	8.6%
203	WHITE PINE WATER SYSTEM	1 of 2	TN	1057	5593	15.6%	20.4%
204	WHITE PINE WATER SYSTEM	2 of 2	TN	1057	5593	15.6%	20.4%
205	WITT UTILITY DISTRICT		TN	2498	2029	7.3%	15.7%

[a] This percentage includes water from Pisgah National Forest.

DRAFT

Sabine National Forest in Texas

Sabine National Forest and public water system intakes receiving water from Sabine National Forest



Sabine National Forest in Texas

Public water system intakes receiving water from Sabine National Forest

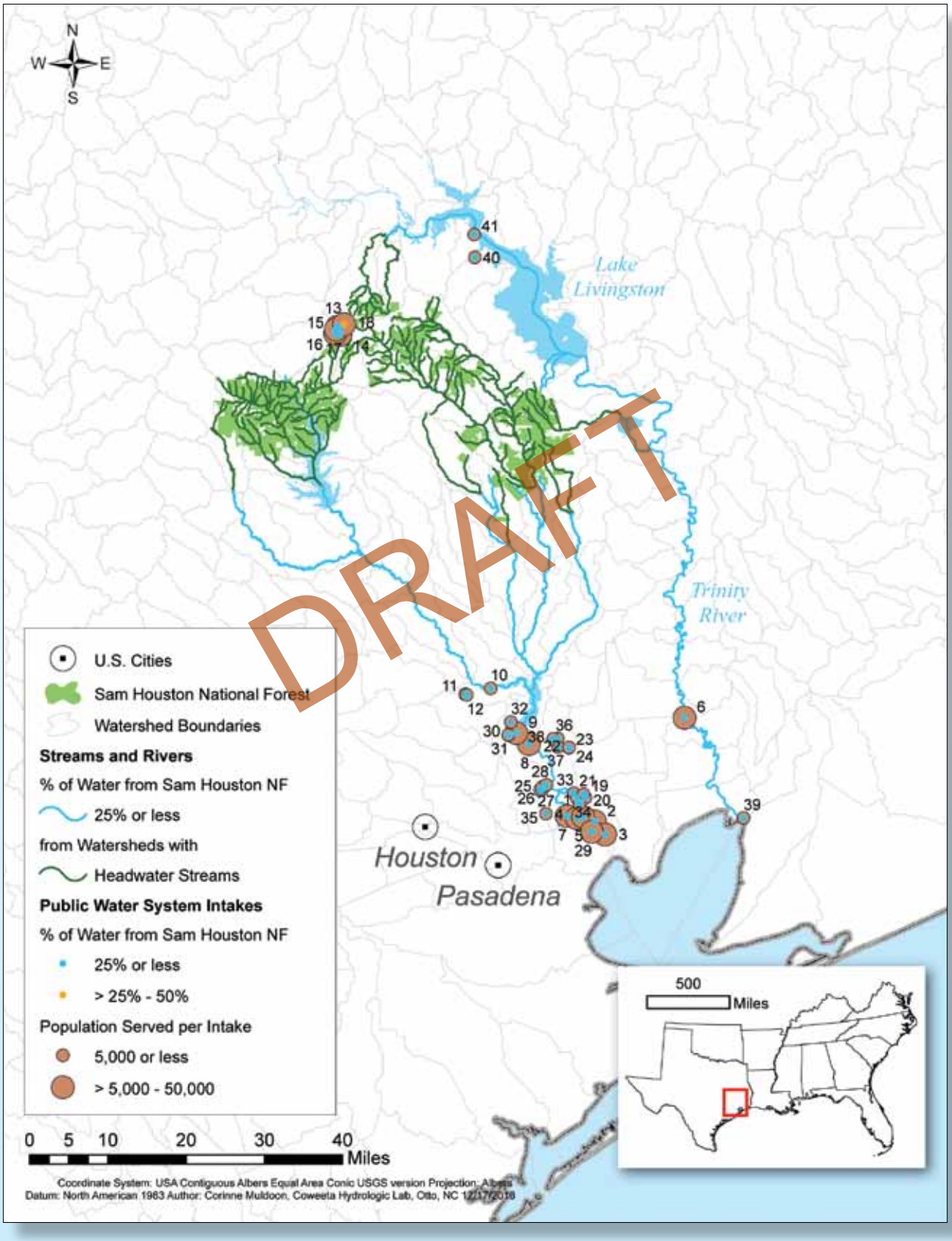
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water		
					Volume available to intake	Percent from Sabine NF only	Percent from all NFS lands[a]
					millions m^3/year		
1	DESOTO PARISH WATER WORKS DISTRICT #1		LA	1660	5243.4	0.1%	0.1%
2	MANSFIELD WATER SYSTEM		LA	1271	5243.4	0.1%	0.1%
3	MANY WATER SYSTEM, CITY OF		LA	1144	6969.7	2.0%	2.0%
4	PENDLETON WATER ASSSOCIATION		LA	2100	7031.31	2.1%	2.1%
5	SOUTH TOLEDO BEND WATER DISTRICT		LA	5454	7426.59	2.3%	2.3%
6	CITY OF BEAUMONT WATER UTILITY DEPT	1 of 3	TX	20833	11270.61	0.2%	4.6%
7	CITY OF BEAUMONT WATER UTILITY DEPT	2 of 3	TX	20833	10083.1	0.3%	5.1%
8	CITY OF BEAUMONT WATER UTILITY DEPT	3 of 3	TX	20833	10083.1	0.3%	5.1%
9	CITY OF HEMPHILL	1 of 2	TX	1025	7031.31	2.1%	2.1%
10	CITY OF HEMPHILL	2 of 2	TX	1025	7031.31	2.1%	2.1%
11	CITY OF HUXLEY		TX	2226	5914.74	0.7%	0.7%
12	CITY OF ROSE CITY		TX	729	11358.72	0.2%	4.5%
13	CITY OF SAN AUGUSTINE	1 of 2	TX	1736	85.59	2.1%	2.1%
14	CITY OF SAN AUGUSTINE	2 of 2	TX	1736	85.59	2.1%	2.1%
15	DUPONT SABINE RIVER WORKS	1 of 2	TX	733	11629.17	2.5%	2.5%
16	DUPONT SABINE RIVER WORKS	2 of 2	TX	733	11629.17	2.5%	2.5%
17	EL CAMINO BAY WATER SYSTEM		TX	363	7426.59	2.3%	2.3%
18	G M WSC	1 of 3	TX	3455	189.73	3.6%	3.6%
19	G M WSC	2 of 3	TX	3455	54.1	5.8%	5.8%
20	G M WSC	3 of 3	TX	3455	54.1	5.8%	5.8%
21	PENDLETON HARBOR		TX	576	7031.31	2.1%	2.1%
22	TBCD WINNIE STOWELL		TX	3297	10083.1	0.3%	5.1%

[a] This percentage includes water from Sabine National Forest.

DRAFT

Sam Houston National Forest in Texas

Sam Houston National Forest and public water system intakes receiving water from Sam Houston National Forest



Sam Houston National Forest in Texas

Public water system intakes receiving water from Sam Houston National Forest

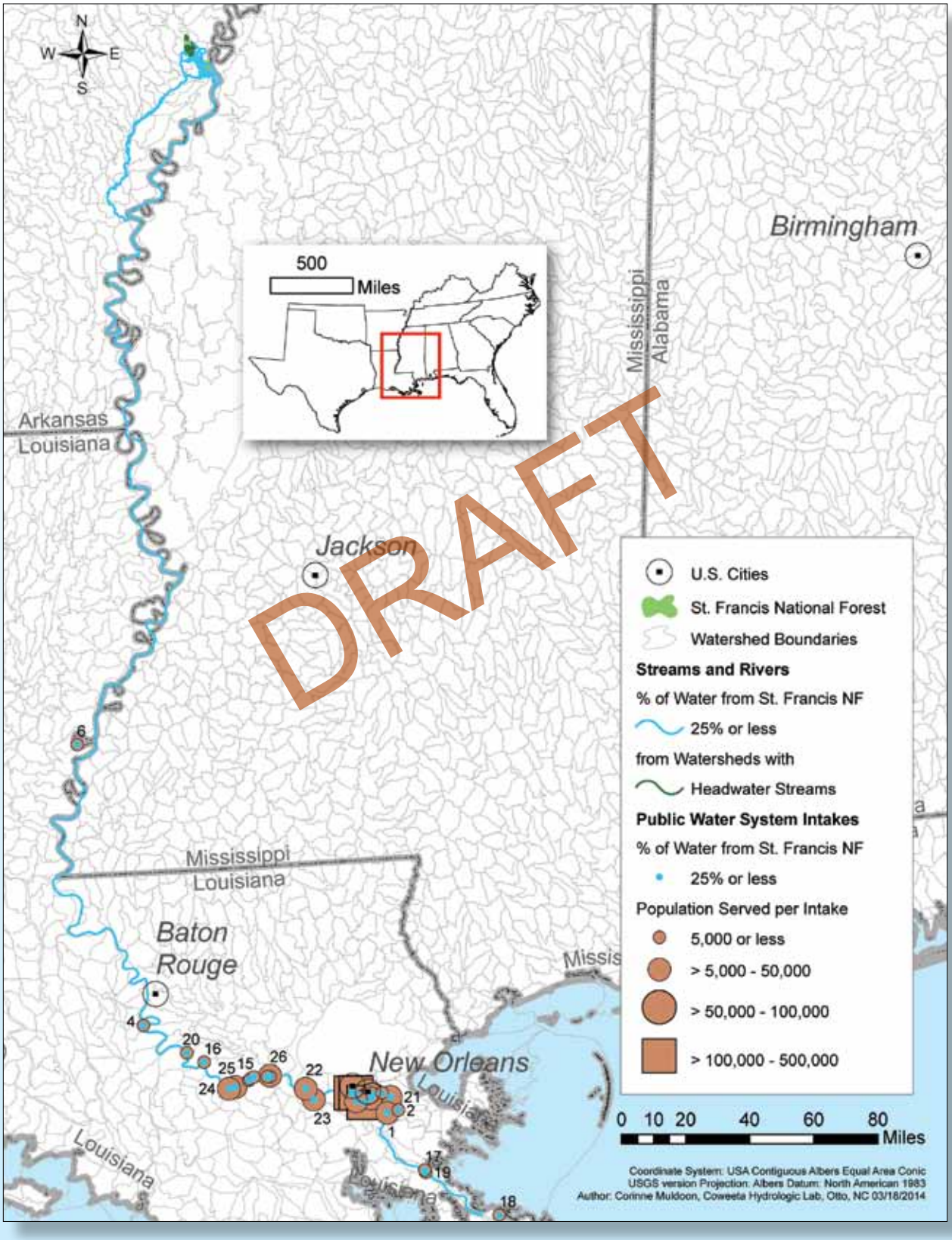
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Sam Houston NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
1	BAYTOWN AREA WATER AUTHORITY		TX	15	5751	3.9%	3.9%
2	CITY OF BAYTOWN	1 of 4	TX	16223	5891	3.8%	3.9%
3	CITY OF BAYTOWN	2 of 4	TX	16223	5891	3.8%	3.9%
4	CITY OF BAYTOWN	3 of 4	TX	16223	5891	3.8%	3.9%
5	CITY OF BAYTOWN	4 of 4	TX	16223	5891	3.8%	3.9%
6	CITY OF HOUSTON	1 of 4	TX	16528	15306	0.2%	0.4%
7	CITY OF HOUSTON	2 of 4	TX	16528	5751	3.9%	3.9%
8	CITY OF HOUSTON	3 of 4	TX	16528	3426	6.6%	6.6%
9	CITY OF HOUSTON	4 of 4	TX	16528	3426	6.6%	6.6%
10	CITY OF HOUSTON BELLEAU WOODS		TX	795	3368	6.7%	6.7%
11	CITY OF HUMBLE	1 of 2	TX	2916	3368	6.7%	6.7%
12	CITY OF HUMBLE	2 of 2	TX	2916	3368	6.7%	6.7%
13	CITY OF HUNTSVILLE	1 of 6	TX	6425	25	12.6%	12.6%
14	CITY OF HUNTSVILLE	2 of 6	TX	6425	25	12.6%	12.6%
15	CITY OF HUNTSVILLE	3 of 6	TX	6425	268	13.6%	13.6%
16	CITY OF HUNTSVILLE	4 of 6	TX	6425	268	13.6%	13.6%
17	CITY OF HUNTSVILLE	5 of 6	TX	6425	268	13.6%	13.6%
18	CITY OF HUNTSVILLE	6 of 6	TX	6425	90	25.4%	25.4%
19	COUNTRY TERRACE SUBDIVISION	1 of 3	TX	513	5751	3.9%	3.9%
20	COUNTRY TERRACE SUBDIVISION	2 of 3	TX	513	5751	3.9%	3.9%
21	COUNTRY TERRACE SUBDIVISION	3 of 3	TX	513	5751	3.9%	3.9%
22	CROSBY MUD	1 of 3	TX	1562	3515	6.4%	6.5%
23	CROSBY MUD	2 of 3	TX	1562	3515	6.4%	6.5%
24	CROSBY MUD	3 of 3	TX	1562	3515	6.4%	6.5%
25	EQUISTAR CHEMICALS CHANNELVIEW	1 of 4	TX	263	3515	6.4%	6.5%
26	EQUISTAR CHEMICALS CHANNELVIEW	2 of 4	TX	263	3515	6.4%	6.5%
27	EQUISTAR CHEMICALS CHANNELVIEW	3 of 4	TX	263	3515	6.4%	6.5%
28	EQUISTAR CHEMICALS CHANNELVIEW	4 of 4	TX	263	3515	6.4%	6.5%
29	EXXON MOBIL BAYTOWN REFINERY		TX	7000	5891	3.8%	3.9%
30	HARRIS COUNTY MUD 344	1 of 2	TX	1332	3426	6.6%	6.6%
31	HARRIS COUNTY MUD 344	2 of 2	TX	1332	3426	6.6%	6.6%
32	HARRIS COUNTY MUD 412		TX	2649	3426	6.6%	6.6%
33	HARRIS COUNTY WCID 1	1 of 2	TX	4055	5751	3.9%	3.9%
34	HARRIS COUNTY WCID 1	2 of 2	TX	4055	5751	3.9%	3.9%
35	HARRIS COUNTY WCID 21		TX	3746	5751	3.9%	3.9%
36	NEWPORT MUD	1 of 3	TX	3133	3515	6.4%	6.5%
37	NEWPORT MUD	2 of 3	TX	3133	3515	6.4%	6.5%
38	NEWPORT MUD	3 of 3	TX	3133	3515	6.4%	6.5%
39	TBCD WEST TREATMENT PLANT		TX	1827	15760	0.1%	0.4%
40	WATERWOOD MUD 1	1 of 2	TX	524	13514	0.1%	0.3%
41	WATERWOOD MUD 1	2 of 2	TX	524	13514	0.1%	0.3%

[a] This percentage includes water from Sam Houston National Forest.

DRAFT

St. Francis National Forest in Arkansas

St. Francis National Forest and public water system intakes receiving water from St. Francis National Forest



St. Francis National Forest in Arkansas

Public water system intakes receiving water from St. Francis National Forest

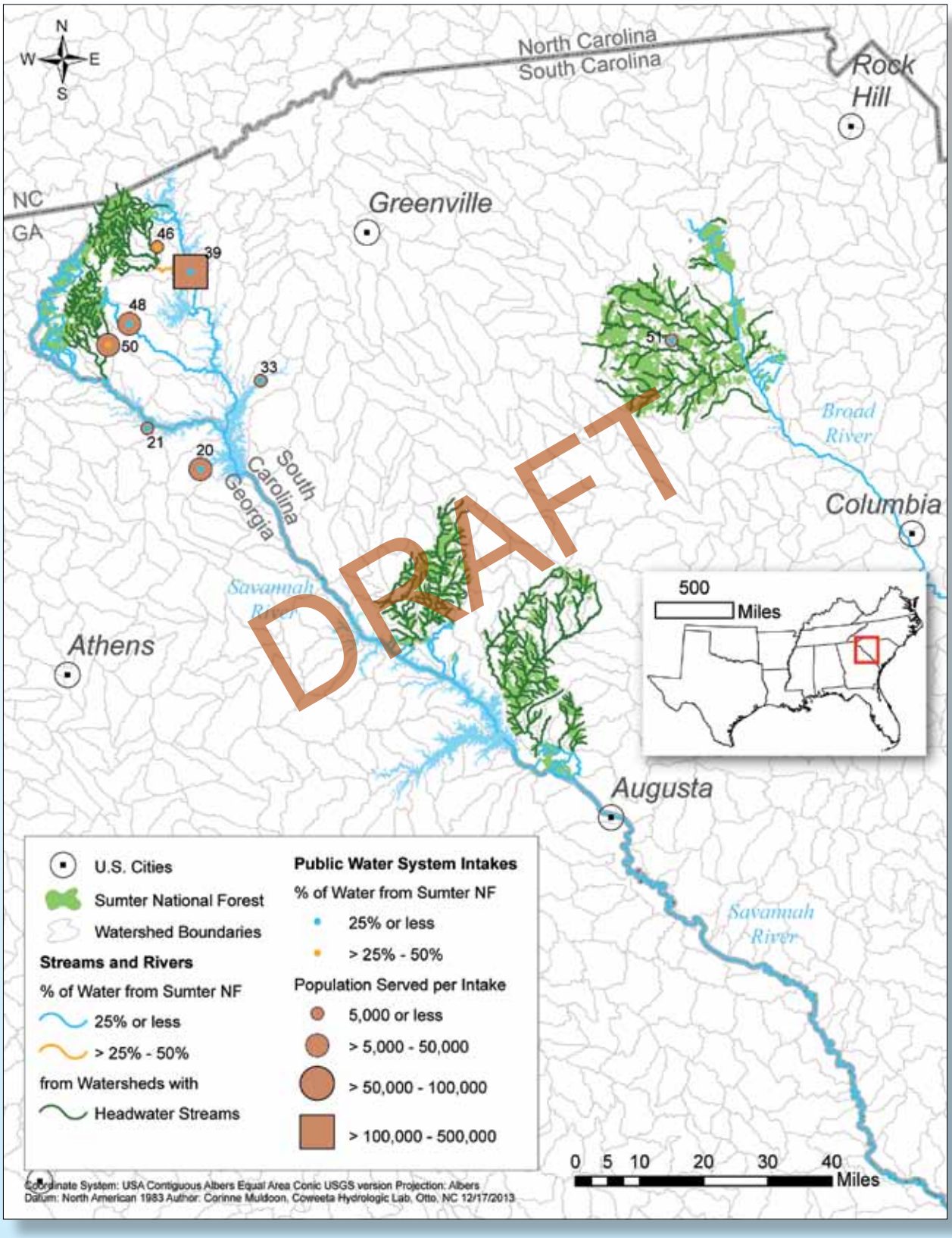
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from St. Francis NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
1	BELLE CHASSE WATER DISTRICT		LA	17391	766843	< 0.05%	4.9%
2	DALCOUR WATERWORKS DIST		LA	2666	766843	< 0.05%	4.9%
3	DOMINO SUGAR		LA	360	766843	< 0.05%	4.9%
4	DOW USA, LA DIVISION		LA	3960	766628	< 0.05%	4.9%
5	E JEFFERSON WW DIST NO 1		LA	308362	766843	< 0.05%	4.9%
6	FERRIDAY TOWN OF		LA	3698	763064	< 0.05%	4.9%
7	GRAMERCY WATERWORKS		LA	2800	766733	< 0.05%	4.9%
8	GRETNA WATERWORKS		LA	17500	766843	< 0.05%	4.9%
9	LUTCHER WATERWORKS		LA	4781	766733	< 0.05%	4.9%
10	MARATHON PETROLEUM COMPANY LLC		LA	817	766733	< 0.05%	4.9%
11	NEW ORLEANS ALGIERS WW	1 of 2	LA	29120	766843	< 0.05%	4.9%
12	NEW ORLEANS ALGIERS WW	2 of 2	LA	29120	766843	< 0.05%	4.9%
13	NEW ORLEANS CARROLLTON WW	1 of 2	LA	214000	766843	< 0.05%	4.9%
14	NEW ORLEANS CARROLLTON WW	2 of 2	LA	214000	766843	< 0.05%	4.9%
15	NORANDA ALUMINA, LLC		LA	500	766733	< 0.05%	4.9%
16	ORMET CORPORATION		LA	65	766733	< 0.05%	4.9%
17	POINTE A LA HACHE W S		LA	1400	766843	< 0.05%	4.9%
18	PORT SULPHUR WATER DIST	1 of 2	LA	4461	766843	< 0.05%	4.9%
19	PORT SULPHUR WATER DIST	2 of 2	LA	4461	766896	< 0.05%	4.9%
20	SHELL CHEMICAL COMPANY		LA	675	766733	< 0.05%	4.9%
21	ST BERNARD PAR WATERWORK		LA	33000	766843	< 0.05%	4.9%
22	ST CHARLES WATER DIST NO 1 EB		LA	29517	766843	< 0.05%	4.9%
23	ST CHARLES WATER DIST NO 2 WB		LA	31485	766843	< 0.05%	4.9%
24	ST JAMES WATER DIST NO 1		LA	6120	766733	< 0.05%	4.9%
25	ST JAMES WATER DIST NO 2		LA	9000	766733	< 0.05%	4.9%
26	ST JOHN WATER DIST NO 1		LA	14670	766733	< 0.05%	4.9%
27	ST JOHN WATER DIST NO 2		LA	3702	766733	< 0.05%	4.9%
28	W JEFFERSON WW DIST NO 2	1 of 2	LA	104986	766843	< 0.05%	4.9%
29	W JEFFERSON WW DIST NO 2	2 of 2	LA	104986	766843	< 0.05%	4.9%
30	WESTWEGO WATERWORKS		LA	8534	766843	< 0.05%	4.9%

[a] This percentage includes water from St. Francis National Forest.

DRAFT

Sumter National Forest in South Carolina

Sumter National Forest and public water system intakes receiving more than 5% annual water supply from Sumter National Forest



Sumter National Forest in South Carolina

Public water system intakes receiving water from Sumter National Forest

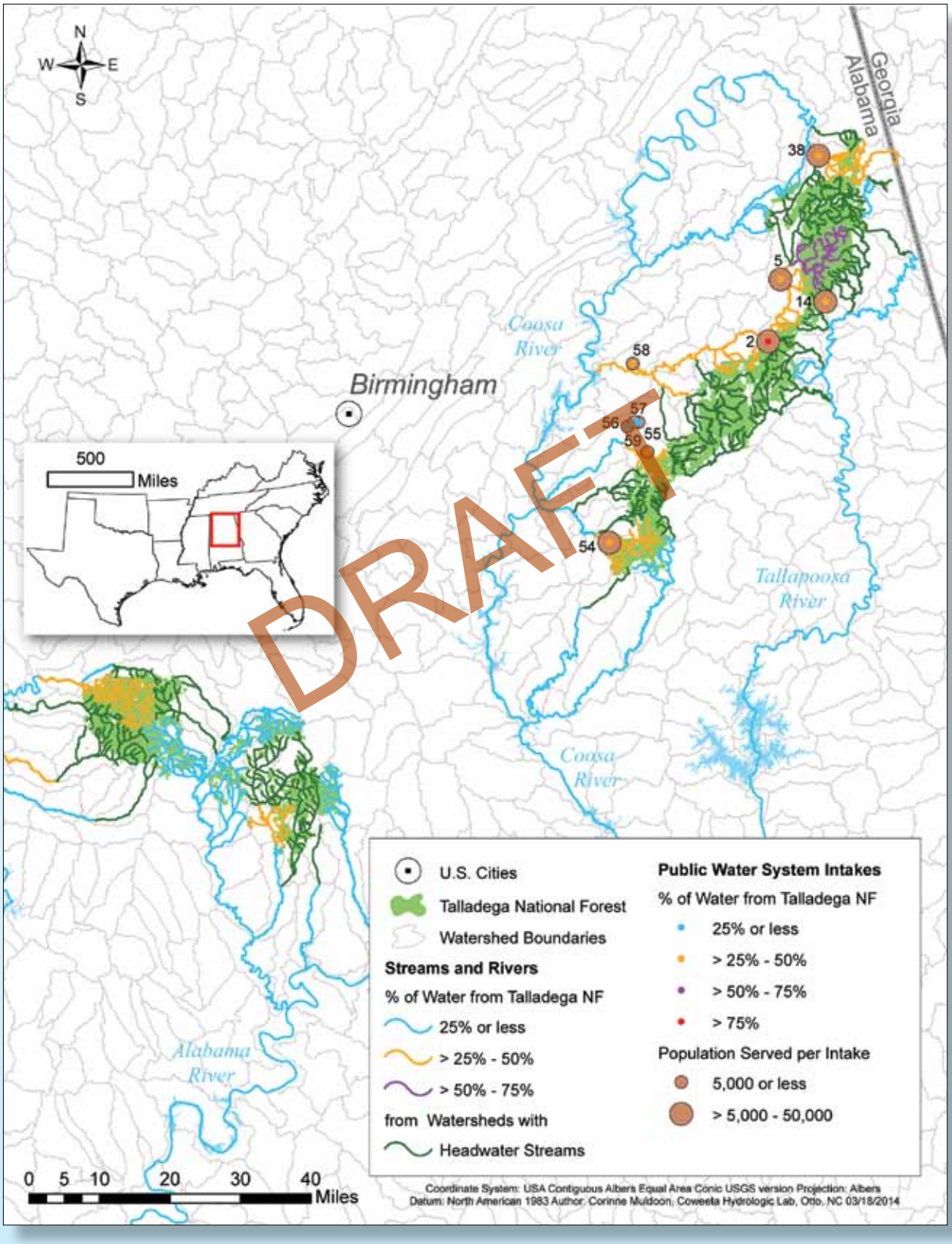
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Sumter NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
1	AUGUSTA-RICHMOND CO WS	1 of 18	GA	8870	8957	4.0%	12.5%
2	AUGUSTA-RICHMOND CO WS	2 of 18	GA	8870	8957	4.0%	12.5%
3	AUGUSTA-RICHMOND CO WS	3 of 18	GA	8870	8957	4.0%	12.5%
4	AUGUSTA-RICHMOND CO WS	4 of 18	GA	8870	8957	4.0%	12.5%
5	AUGUSTA-RICHMOND CO WS	5 of 18	GA	8870	8957	4.0%	12.5%
6	AUGUSTA-RICHMOND CO WS	6 of 18	GA	8870	8957	4.0%	12.5%
7	AUGUSTA-RICHMOND CO WS	7 of 18	GA	8870	8957	4.0%	12.5%
8	AUGUSTA-RICHMOND CO WS	8 of 18	GA	8870	8957	4.0%	12.5%
9	AUGUSTA-RICHMOND CO WS	9 of 18	GA	8870	8957	4.0%	12.5%
10	AUGUSTA-RICHMOND CO WS	10 of 18	GA	8870	8957	4.0%	12.5%
11	AUGUSTA-RICHMOND CO WS	11 of 18	GA	8870	8957	4.0%	12.5%
12	AUGUSTA-RICHMOND CO WS	12 of 18	GA	8870	8957	4.0%	12.5%
13	AUGUSTA-RICHMOND CO WS	13 of 18	GA	8870	8957	4.0%	12.5%
14	AUGUSTA-RICHMOND CO WS	14 of 18	GA	8870	8957	4.0%	12.5%
15	AUGUSTA-RICHMOND CO WS	15 of 18	GA	8870	8957	4.0%	12.5%
16	AUGUSTA-RICHMOND CO WS	16 of 18	GA	8870	8957	4.0%	12.5%
17	AUGUSTA-RICHMOND CO WS	17 of 18	GA	8870	8957	4.0%	12.5%
18	AUGUSTA-RICHMOND CO WS	18 of 18	GA	8870	8136	4.5%	13.8%
19	COLUMBIA COUNTY		GA	31379	8045	4.5%	14.0%
20	HARTWELL		GA	7116	3522	6.6%	26.8%
21	LAVONIA		GA	4004	3522	6.6%	26.8%
22	LINCOLNTON		GA	1657	7340	4.1%	14.4%
23	POOLER	1 of 2	GA	3770	10786	3.4%	10.4%
24	POOLER	2 of 2	GA	3770	10786	3.4%	10.4%
25	RINCON	1 of 2	GA	4940	10786	3.4%	10.4%
26	RINCON	2 of 2	GA	4940	10604	3.4%	10.6%
27	SAVANNAH-I & D	1 of 4	GA	2625	10786	3.4%	10.4%
28	SAVANNAH-I & D	2 of 4	GA	2625	10786	3.4%	10.4%
29	SAVANNAH-I & D	3 of 4	GA	2625	10786	3.4%	10.4%
30	SAVANNAH-I & D	4 of 4	GA	2625	10604	3.4%	10.6%
31	THOMSON-MCDUFFIE CO W&S COMM		GA	8859	7340	4.1%	14.4%
32	WASHINGTON		GA	2052	7340	4.1%	14.4%
33	ANDERSON REGIONAL WTR SYS		SC	25	3522	6.6%	26.8%
34	BJW&SA	1 of 3	SC	16468	10786	3.4%	10.4%
35	BJW&SA	2 of 3	SC	16468	10786	3.4%	10.4%
36	BJW&SA	3 of 3	SC	16468	10604	3.4%	10.6%
37	CARLISLE CONE MILLS		SC	350	3292	0.7%	0.7%
38	EDGEFIELD CO W&SA		SC	24652	8136	4.5%	13.8%
39	GREENVILLE WATER SYSTEM		SC	116723	775	7.7%	14.0%
40	LAKE MARION REGIONAL WATER PLT		SC	25	14389	1.3%	3.9%
41	MCCORMICK CPW		SC	2678	7340	4.1%	14.4%
42	NORTH AUGUSTA CITY OF		SC	26273	8136	4.5%	13.8%
43	SALEM TOWN OF	1 of 4	SC	456	425	3.3%	14.4%
44	SALEM TOWN OF	2 of 4	SC	456	425	3.3%	14.4%
45	SALEM TOWN OF	3 of 4	SC	456	425	3.3%	14.4%
46	SALEM TOWN OF	4 of 4	SC	456	132	34.5%	35.8%
47	UNION CITY OF		SC	12757	3120	0.3%	0.4%
48	WALHALLA CITY OF		SC	16309	29	13.7%	13.7%
49	WEST COLUMBIA CITY OF		SC	17143	7924	2.3%	2.3%
50	WESTMINSTER CITY OF		SC	7644	175	41.0%	41.1%
51	WHITMIRE TOWN OF		SC	2560	576	7.3%	7.3%

[a] This percentage includes water from Sumter National Forest.

DRAFT

Talladega National Forest in Alabama

Talladega National Forest and public water system intakes receiving more than 10% annual water supply from Talladega National Forest



Talladega National Forest in Alabama

Public water system intakes receiving water from Talladega National Forest (1 of 3 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Talladega NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
1	ALEXANDER CITY WATER DEPARTMENT		AL	27000	3313	2.0%	2.0%
2	ANNISTON WATER & SEWER BOARD		AL	30000	26	78.4%	78.4%
3	CALHOUN COUNTY WATER & FIRE PR AUTHORITY	1 of 3	AL	5126	134	1.9%	1.9%
4	CALHOUN COUNTY WATER & FIRE PR AUTHORITY	2 of 3	AL	5126	81	3.1%	3.1%
5	CALHOUN COUNTY WATER & FIRE PR AUTHORITY	3 of 3	AL	5126	195	48.9%	49.0%
6	CENTRAL ELMORE WATER AUTHORITY		AL	32877	3970	1.6%	1.6%
7	CLANTON WATER DEPARTMENT		AL	13500	12874	3.1%	7.5%
8	ELMORE WATER & SEWER AUTHORITY	1 of 4	AL	1813	19754	2.3%	5.3%
9	ELMORE WATER & SEWER AUTHORITY	2 of 4	AL	1813	19723	2.3%	5.3%
10	ELMORE WATER & SEWER AUTHORITY	3 of 4	AL	1813	19723	2.3%	5.3%
11	ELMORE WATER & SEWER AUTHORITY	4 of 4	AL	1813	19723	2.3%	5.3%
12	FIVE STAR WATER SUPPLY DISTRICT		AL	100	19658	2.3%	5.3%
13	GADSDEN WATER WORKS AND SEWER BOARD		AL	46551	8144	0.7%	7.7%
14	HEFLIN WATER WORKS		AL	8607	33	36.0%	36.0%
15	JACKSON WATER WORKS & SEWER BOARD	1 of 2	AL	3801	28692	0.4%	2.4%
16	JACKSON WATER WORKS & SEWER BOARD	2 of 2	AL	3801	28692	0.4%	2.4%
17	JACKSONVILLE UTILITIES	1 of 2	AL	6870	81	3.1%	3.1%
18	JACKSONVILLE UTILITIES	1 of 2	AL	6870	81	3.1%	3.1%
19	MARBURY WATER SYSTEM, INC.		AL	3660	19754	2.3%	5.3%
20	MILLBROOK UTILITIES		AL	4503	19754	2.3%	5.3%
21	MONTGOMERY WATER WORKS	1 of 13	AL	5601	6091	1.1%	1.4%
22	MONTGOMERY WATER WORKS	2 of 13	AL	5601	6030	1.1%	1.4%
23	MONTGOMERY WATER WORKS	3 of 13	AL	5601	6030	1.1%	1.4%
24	MONTGOMERY WATER WORKS	4 of 13	AL	5601	19810	2.3%	5.3%
25	MONTGOMERY WATER WORKS	5 of 13	AL	5601	19810	2.3%	5.3%
26	MONTGOMERY WATER WORKS	6 of 13	AL	5601	19810	2.3%	5.3%

(Continued)

DRAFT

Talladega National Forest in Alabama

(Continued) Public water system intakes receiving water from Talladega National Forest (2 of 3 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Talladega NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
27	MONTGOMERY WATER WORKS	7 of 13	AL	5601	19810	2.3%	5.3%
28	MONTGOMERY WATER WORKS	8 of 13	AL	5601	19810	2.3%	5.3%
29	MONTGOMERY WATER WORKS	9 of 13	AL	5601	19810	2.3%	5.3%
30	MONTGOMERY WATER WORKS	10 of 13	AL	5601	19810	2.3%	5.3%
31	MONTGOMERY WATER WORKS	11 of 13	AL	5601	19810	2.3%	5.3%
32	MONTGOMERY WATER WORKS	12 of 13	AL	5601	19810	2.3%	5.3%
33	MONTGOMERY WATER WORKS	13 of 13	AL	5601	19723	2.3%	5.3%
34	PELL CITY WATER WORKS	1 of 4	AL	3788	10117	2.5%	8.1%
35	PELL CITY WATER WORKS	2 of 4	AL	3788	10117	2.5%	8.1%
36	PELL CITY WATER WORKS	3 of 4	AL	3788	10117	2.5%	8.1%
37	PELL CITY WATER WORKS	4 of 4	AL	3788	9977	2.6%	8.2%
38	PIEDMONT UTILITIES BOARD		AL	8496	182	27.9%	28.2%
39	PINE HILL WATER DEPARTMENT		AL	2475	28225	2.3%	4.4%
40	PRATTVILLE (WATER WORKS BOARD OF)	1 of 11	AL	2330	20502	2.2%	5.1%
41	PRATTVILLE (WATER WORKS BOARD OF)	2 of 11	AL	2330	20502	2.2%	5.1%
42	PRATTVILLE (WATER WORKS BOARD OF)	3 of 11	AL	2330	19810	2.3%	5.3%
43	PRATTVILLE (WATER WORKS BOARD OF)	4 of 11	AL	2330	19810	2.3%	5.3%
44	PRATTVILLE (WATER WORKS BOARD OF)	5 of 11	AL	2330	19810	2.3%	5.3%
45	PRATTVILLE (WATER WORKS BOARD OF)	6 of 11	AL	2330	19810	2.3%	5.3%
46	PRATTVILLE (WATER WORKS BOARD OF)	7 of 11	AL	2330	19810	2.3%	5.3%
47	PRATTVILLE (WATER WORKS BOARD OF)	8 of 11	AL	2330	19810	2.3%	5.3%
48	PRATTVILLE (WATER WORKS BOARD OF)	9 of 11	AL	2330	19810	2.3%	5.3%
49	PRATTVILLE (WATER WORKS BOARD OF)	10 of 11	AL	2330	19810	2.3%	5.3%
50	PRATTVILLE (WATER WORKS BOARD OF)	11 of 11	AL	2330	19810	2.3%	5.3%
51	SHELBY COUNTY WATER SYSTEM		AL	32337	11472	3.2%	8.2%
52	SOUTHSIDE WATER WORKS		AL	5357	8682	0.6%	7.2%
53	SPANISH FORT WATER SYSTEM		AL	2688	61837	1.3%	3.1%

(Continued)

DRAFT

Talladega National Forest in Alabama

(Continued) Public water system intakes receiving water from Talladega National Forest (3 of 3 pages)

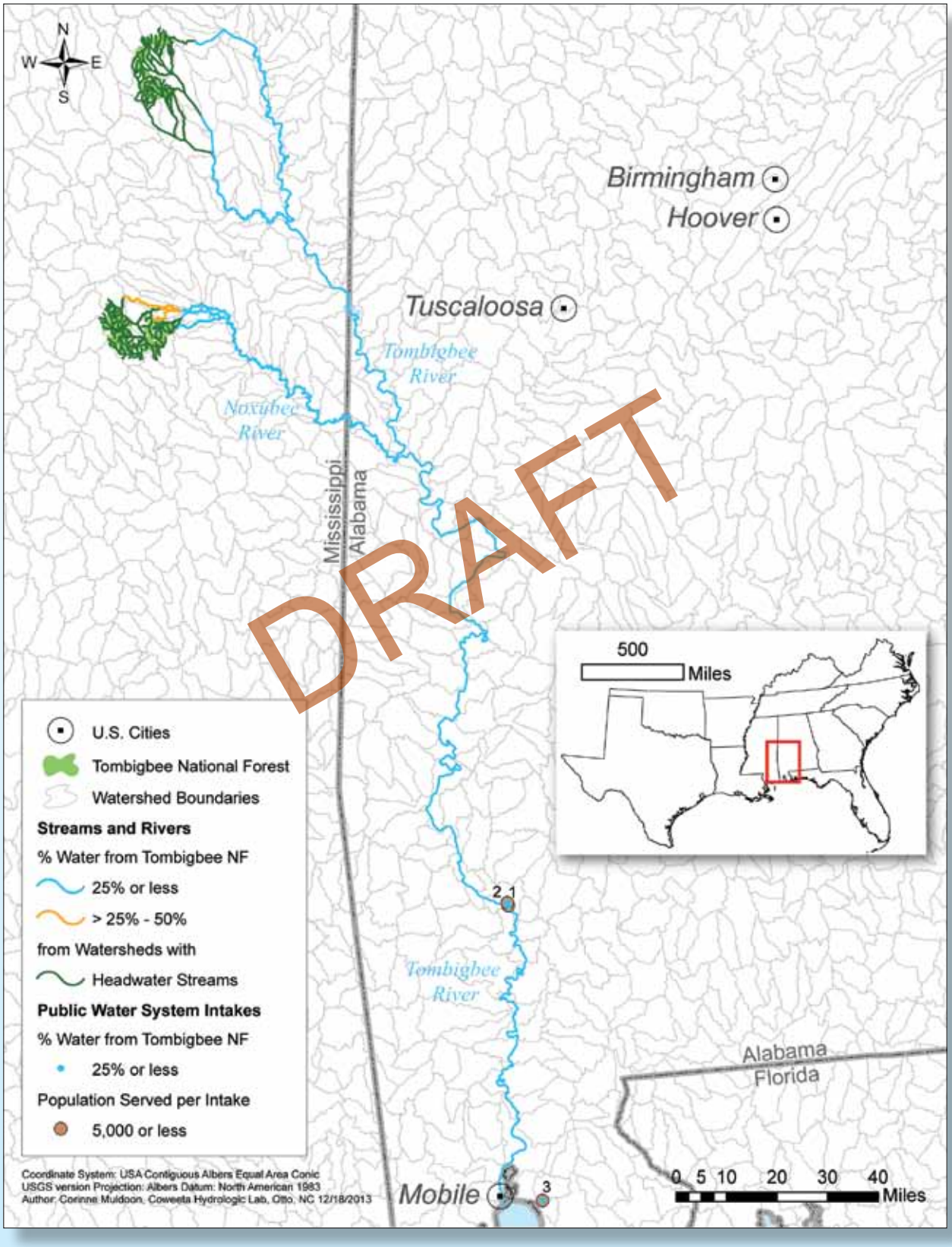
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water		
					Volume available to intake	Percent from Talladega NF only	Percent from all NFS lands[a]
					millions m^3/year		
54	SYLACAUGA UTILITIES BOARD		AL	7537	114	46.5%	46.5%
55	TALLADEGA WATER AND SEWER BOARD, CITY OF	1 of 5	AL	4023	248	22.2%	22.2%
56	TALLADEGA WATER AND SEWER BOARD, CITY OF	2 of 5	AL	4023	248	22.2%	22.2%
57	TALLADEGA WATER AND SEWER BOARD, CITY OF	3 of 5	AL	4023	248	22.2%	22.2%
58	TALLADEGA WATER AND SEWER BOARD, CITY OF	4 of 5	AL	4023	660	29.6%	29.6%
59	TALLADEGA WATER AND SEWER BOARD, CITY OF	5 of 5	AL	4023	156	35.3%	35.3%
60	TALLADEGA-SHELBY WATER TREATMENT PLANT		AL	32	10728	2.9%	8.2%
61	TALLASSEE WATER WORKS		AL	7500	5047	1.3%	1.7%
62	TRI COMMUNITY WATER SYSTEM	1 of 5	AL	2187	19754	2.3%	5.3%
63	TRI COMMUNITY WATER SYSTEM	2 of 5	AL	2187	19754	2.3%	5.3%
64	TRI COMMUNITY WATER SYSTEM	3 of 5	AL	2187	19754	2.3%	5.3%
65	TRI COMMUNITY WATER SYSTEM	4 of 5	AL	2187	19723	2.3%	5.3%
66	TRI COMMUNITY WATER SYSTEM	5 of 5	AL	2187	19723	2.3%	5.3%
67	TUSKEGEE UTILITIES BOARD		AL	13500	5047	1.3%	1.7%
68	WILCOX COUNTY WATER SYSTEM		AL	1319	27453	2.4%	4.5%

[a] This percentage includes water from Talladega National Forest.

DRAFT

Tombigbee National Forest in Mississippi

Tombigbee National Forest and public water system intakes receiving water from Tombigbee National Forest



Tombigbee National Forest in Mississippi

Public water system intakes receiving water from Tombigbee National Forest

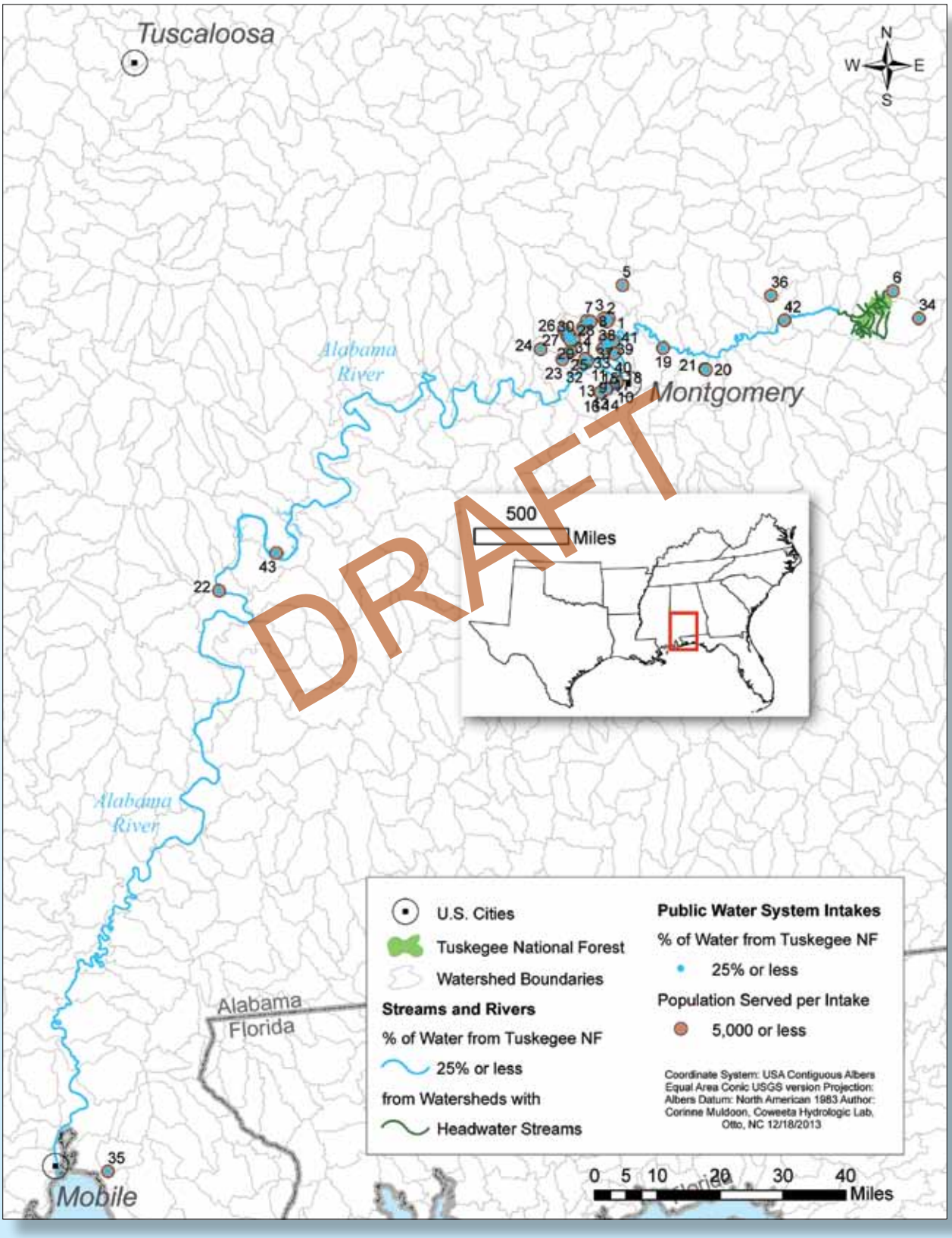
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water		
					Volume available to intake	Percent from Tombigbee NF only	Percent from all NFS lands[a]
					millions m^3/year		
1	JACKSON WATER WORKS & SEWER BOARD	1 of 2	AL	3801	28700	0.5%	2.4%
2	JACKSON WATER WORKS & SEWER BOARD	2 of 2	AL	3801	28700	0.5%	2.4%
3	SPANISH FORT WATER SYSTEM		AL	2688	61869	0.3%	3.1%

[a] This percentage includes water from Tombigbee National Forest.

DRAFT

Tuskegee National Forest in Alabama

Tuskegee National Forest and public water system intakes receiving water from Tuskegee National Forest



Tuskegee National Forest in Alabama

Public water system intakes receiving water from Tuskegee National Forest

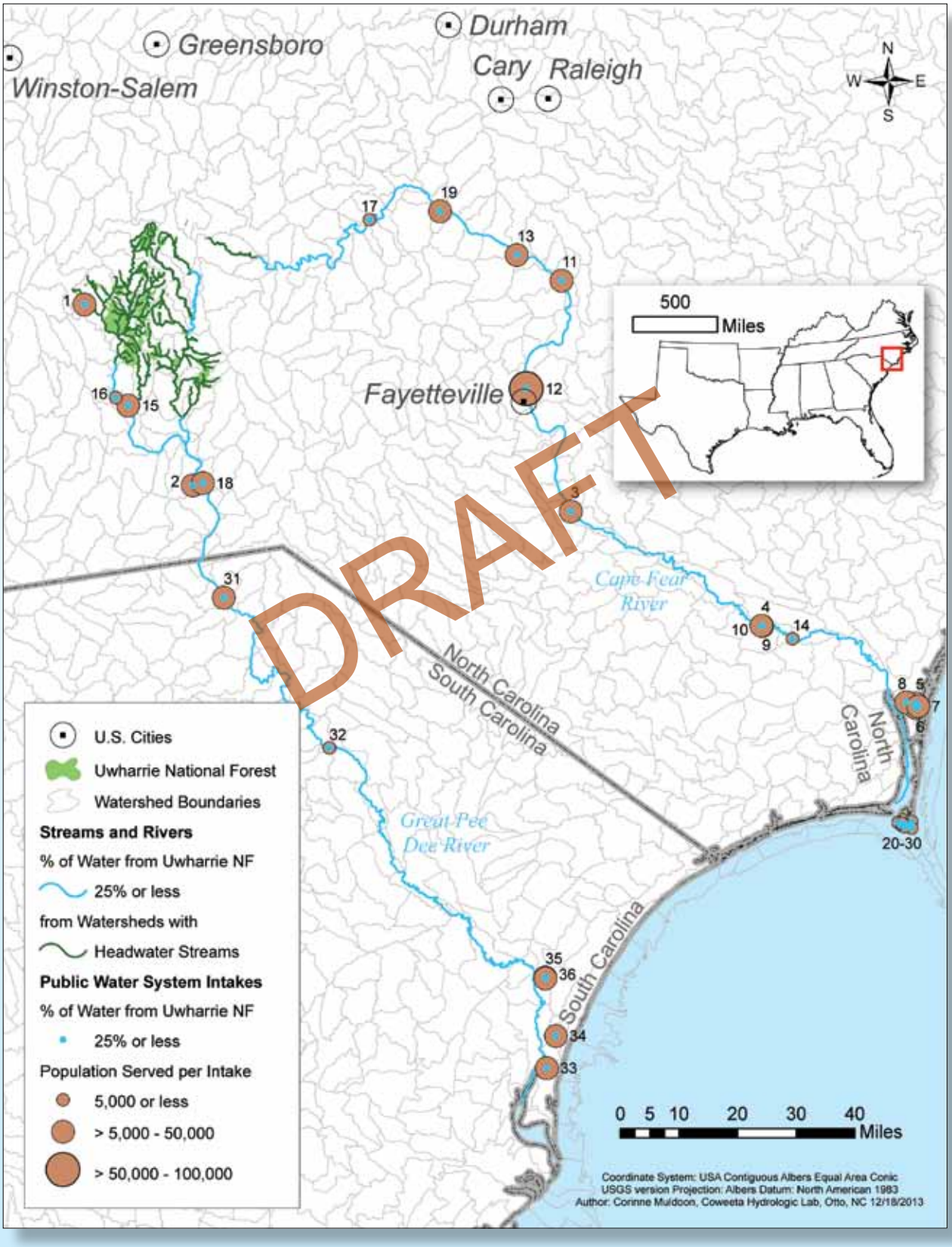
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Tuskegee NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
1	ELMORE WATER & SEWER AUTHORITY	1 of 4	AL	1813	19771	0.1%	5.3%
2	ELMORE WATER & SEWER AUTHORITY	2 of 4	AL	1813	19740	0.1%	5.3%
3	ELMORE WATER & SEWER AUTHORITY	3 of 4	AL	1813	19740	0.1%	5.3%
4	ELMORE WATER & SEWER AUTHORITY	4 of 4	AL	1813	19740	0.1%	5.3%
5	FIVE STAR WATER SUPPLY DISTRICT		AL	100	19675	0.1%	5.3%
6	LOACHAPOKA WATER AUTHORITY		AL	5180	76	16.3%	16.3%
7	MARBURY WATER SYSTEM, INC.		AL	3660	19771	0.1%	5.3%
8	MILLBROOK UTILITIES		AL	4503	19771	0.1%	5.3%
9	MONTGOMERY WATER WORKS	1 of 13	AL	5601	19827	0.1%	5.3%
10	MONTGOMERY WATER WORKS	2 of 13	AL	5601	19827	0.1%	5.3%
11	MONTGOMERY WATER WORKS	3 of 13	AL	5601	19827	0.1%	5.3%
12	MONTGOMERY WATER WORKS	4 of 13	AL	5601	19827	0.1%	5.3%
13	MONTGOMERY WATER WORKS	5 of 13	AL	5601	19827	0.1%	5.3%
14	MONTGOMERY WATER WORKS	6 of 13	AL	5601	19827	0.1%	5.3%
15	MONTGOMERY WATER WORKS	7 of 13	AL	5601	19827	0.1%	5.3%
16	MONTGOMERY WATER WORKS	8 of 13	AL	5601	19827	0.1%	5.3%
17	MONTGOMERY WATER WORKS	9 of 13	AL	5601	19827	0.1%	5.3%
18	MONTGOMERY WATER WORKS	10 of 13	AL	5601	19740	0.1%	5.3%
19	MONTGOMERY WATER WORKS	11 of 13	AL	5601	6093	0.3%	1.4%
20	MONTGOMERY WATER WORKS	12 of 13	AL	5601	6033	0.3%	1.4%
21	MONTGOMERY WATER WORKS	13 of 13	AL	5601	6033	0.3%	1.4%
22	PINE HILL WATER DEPARTMENT		AL	2475	28247	0.1%	4.4%
23	PRATTVILLE (WATER WORKS BOARD OF)	1 of 12	AL	2330	20519	0.1%	5.1%
24	PRATTVILLE (WATER WORKS BOARD OF)	2 of 12	AL	2330	20519	0.1%	5.1%
25	PRATTVILLE (WATER WORKS BOARD OF)	3 of 12	AL	2330	19827	0.1%	5.3%
26	PRATTVILLE (WATER WORKS BOARD OF)	4 of 12	AL	2330	19827	0.1%	5.3%
27	PRATTVILLE (WATER WORKS BOARD OF)	5 of 12	AL	2330	19827	0.1%	5.3%
28	PRATTVILLE (WATER WORKS BOARD OF)	6 of 12	AL	2330	19827	0.1%	5.3%
29	PRATTVILLE (WATER WORKS BOARD OF)	7 of 12	AL	2330	19827	0.1%	5.3%
30	PRATTVILLE (WATER WORKS BOARD OF)	8 of 12	AL	2330	19827	0.1%	5.3%
31	PRATTVILLE (WATER WORKS BOARD OF)	9 of 12	AL	2330	19827	0.1%	5.3%
32	PRATTVILLE (WATER WORKS BOARD OF)	10 of 12	AL	2330	19827	0.1%	5.3%
33	PRATTVILLE (WATER WORKS BOARD OF)	11 of 12	AL	2330	19827	0.1%	5.3%
34	PRATTVILLE (WATER WORKS BOARD OF)	12 of 12	AL	2330	192	0.5%	0.5%
35	SPANISH FORT WATER SYSTEM		AL	2688	61874	< 0.05%	3.1%
36	TALLASSEE WATER WORKS		AL	7500	5050	0.4%	1.7%
37	TRI COMMUNITY WATER SYSTEM	1 of 5	AL	2187	19771	0.1%	5.3%
38	TRI COMMUNITY WATER SYSTEM	2 of 5	AL	2187	19771	0.1%	5.3%
39	TRI COMMUNITY WATER SYSTEM	3 of 5	AL	2187	19771	0.1%	5.3%
40	TRI COMMUNITY WATER SYSTEM	4 of 5	AL	2187	19740	0.1%	5.3%
41	TRI COMMUNITY WATER SYSTEM	5 of 5	AL	2187	19740	0.1%	5.3%
42	TUSKEGEE UTILITIES BOARD		AL	13500	5050	0.4%	1.7%
43	WILCOX COUNTY WATER SYSTEM		AL	1319	27476	0.1%	4.5%

[a] This percentage includes water from Tuskegee National Forest.

DRAFT

Uwharrie National Forest in North Carolina

Uwharrie National Forest and public water system intakes receiving water from Uwharrie National Forest



Uwharrie National Forest in North Carolina

Public water system intakes receiving water from Uwharrie National Forest

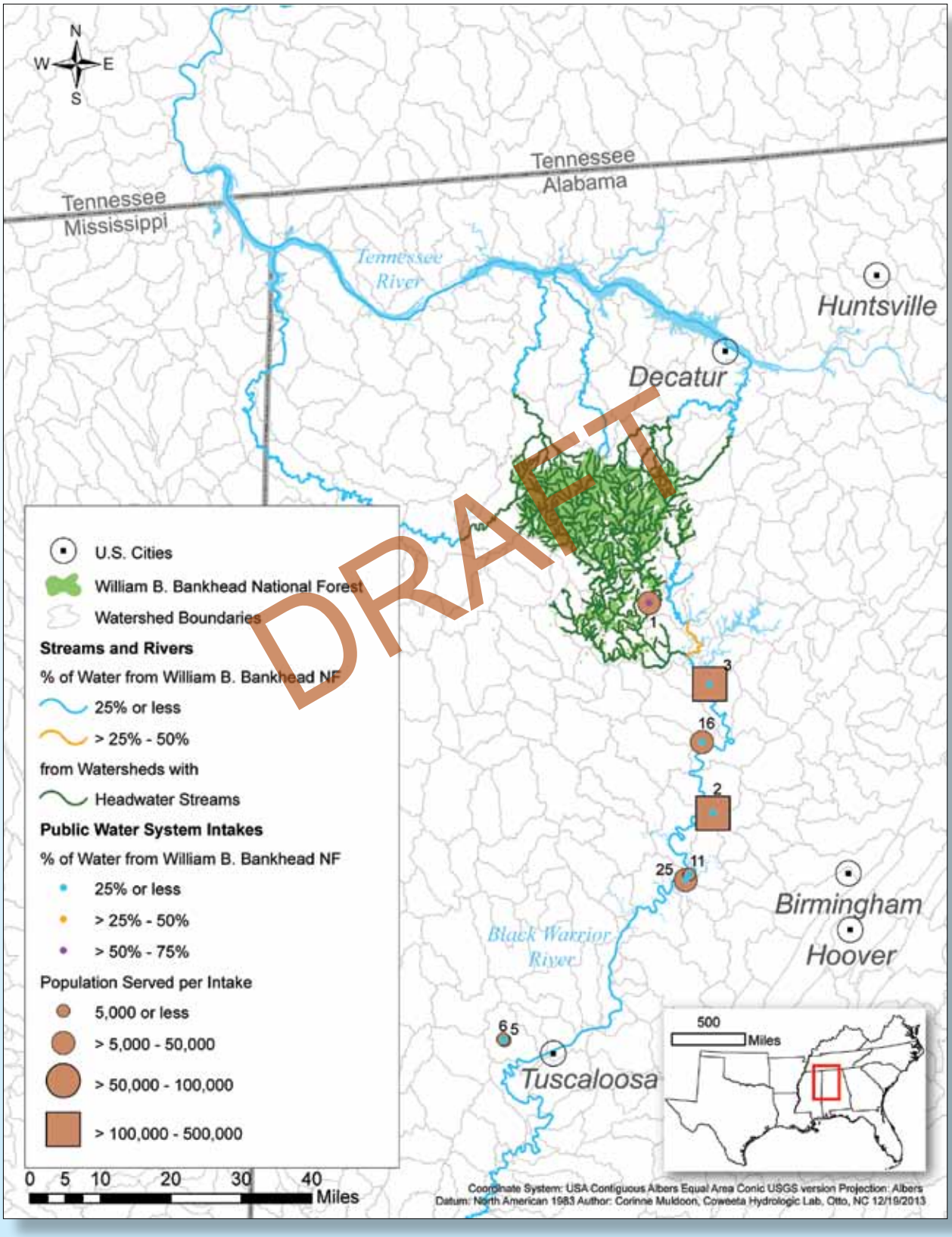
Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from Uwharrie NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
1	ALBEMARLE, CITY OF		NC	8250	4733.65	0.7%	0.7%
2	ANSON COUNTY WATER SYSTEM		NC	13000	6544.46	0.7%	0.8%
3	BLADEN BLUFFS WATER SYSTEM		NC	5600	4492.74	< 0.05%	< 0.05%
4	BRUNSWICK COUNTY WATER SYSTEM		NC	5129	4797.33	< 0.05%	< 0.05%
5	CFPUA-WILMINGTON	1 of 6	NC	6899	8878	< 0.05%	< 0.05%
6	CFPUA-WILMINGTON	2 of 6	NC	6899	8878	< 0.05%	< 0.05%
7	CFPUA-WILMINGTON	3 of 6	NC	6899	8878	< 0.05%	< 0.05%
8	CFPUA-WILMINGTON	4 of 6	NC	6899	8713.36	< 0.05%	< 0.05%
9	CFPUA-WILMINGTON	5 of 6	NC	6899	4797.33	< 0.05%	< 0.05%
10	CFPUA-WILMINGTON	6 of 6	NC	6899	4797.33	< 0.05%	< 0.05%
11	DUNN, CITY OF		NC	5874	3370.07	< 0.05%	< 0.05%
12	FAYETTEVILLE PUBLIC WORKS COMM		NC	99000	3940.15	< 0.05%	< 0.05%
13	HARNETT CO DEPT OF PUBLIC UTIL		NC	45002	3065.08	< 0.05%	< 0.05%
14	INTERNATIONAL PAPER COMPANY		NC	925	4797.33	< 0.05%	< 0.05%
15	MONTGOMERY COUNTY WATER SYSTEM		NC	14250	4811.43	0.7%	0.8%
16	NORWOOD, TOWN OF		NC	4690	4811.43	0.7%	0.8%
17	PILGRIM`S PRIDE WATER SYSTEM		NC	450	933.74	< 0.05%	< 0.05%
18	RICHMOND COUNTY WATER SYSTEM		NC	8470	6544.46	0.7%	0.8%
19	SANFORD, CITY OF		NC	47709	2857.42	< 0.05%	< 0.05%
20	THE VILLAGE OF BALD HEAD ISLAND	1 of 11	NC	144	9053.92	< 0.05%	< 0.05%
21	THE VILLAGE OF BALD HEAD ISLAND	2 of 11	NC	144	9053.92	< 0.05%	< 0.05%
22	THE VILLAGE OF BALD HEAD ISLAND	3 of 11	NC	144	9053.92	< 0.05%	< 0.05%
23	THE VILLAGE OF BALD HEAD ISLAND	4 of 11	NC	144	9053.92	< 0.05%	< 0.05%
24	THE VILLAGE OF BALD HEAD ISLAND	5 of 11	NC	144	9053.92	< 0.05%	< 0.05%
25	THE VILLAGE OF BALD HEAD ISLAND	6 of 11	NC	144	9053.92	< 0.05%	< 0.05%
26	THE VILLAGE OF BALD HEAD ISLAND	7 of 11	NC	144	9053.92	< 0.05%	< 0.05%
27	THE VILLAGE OF BALD HEAD ISLAND	8 of 11	NC	144	9053.92	< 0.05%	< 0.05%
28	THE VILLAGE OF BALD HEAD ISLAND	9 of 11	NC	144	9053.92	< 0.05%	< 0.05%
29	THE VILLAGE OF BALD HEAD ISLAND	10 of 11	NC	144	9053.92	< 0.05%	< 0.05%
30	THE VILLAGE OF BALD HEAD ISLAND	11 of 11	NC	144	9053.92	< 0.05%	< 0.05%
31	CHERAW TOWN OF		SC	5283	7235.15	0.7%	0.7%
32	FLORENCE CITY OF		SC	2359	7673.05	0.6%	0.7%
33	GCWSD/WACCAMAW NECK	1 of 2	SC	8447	16890.89	0.3%	0.3%
34	GCWSD/WACCAMAW NECK	2 of 2	SC	8447	16890.89	0.3%	0.3%
35	GSW&SA	1 of 2	SC	8556	13112.44	0.4%	0.4%
36	GSW&SA	2 of 2	SC	8556	13112.44	0.4%	0.4%

[a] This percentage includes water from Uwharrie National Forest.

DRAFT

William B. Bankhead National Forest in Alabama

William B. Bankhead National Forest and public water system intakes receiving more than 5% annual water supply from William B. Bankhead National Forest



William B. Bankhead National Forest in Alabama

Public water system intakes receiving water from William B. Bankhead National Forest (1 of 3 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from William B. Bankhead NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
1	ARLEY WATER WORKS		AL	7872	589	63.8%	63.8%
2	BIRMINGHAM WATER WORKS BOARD	1 of 2	AL	147811	3232	12.6%	12.7%
3	BIRMINGHAM WATER WORKS BOARD	2 of 2	AL	147811	1700	24.0%	24.1%
4	CHEROKEE WATER & GAS DEPARTMENT		AL	2250	44314	0.1%	10.6%
5	COKER WATER AUTHORITY	1 of 2	AL	1890	7420	5.5%	5.5%
6	COKER WATER AUTHORITY	2 of 2	AL	1890	7420	5.5%	5.5%
7	COLBERT COUNTY RURAL WATER SYSTEM		AL	10731	44212	0.1%	10.6%
8	DECATUR (MUNICIPAL UTILITIES BOARD OF)		AL	77100	37761	0.1%	12.4%
9	FLORENCE WATER-WASTEWATER DEPARTMENT	1 of 2	AL	16725	43317	0.1%	10.8%
10	FLORENCE WATER-WASTEWATER DEPARTMENT	2 of 2	AL	16725	43317	0.1%	10.8%
11	GOVERNMENTAL UTILITY SERVICE CORPORATION		AL	32	6134	6.7%	6.7%
12	GREENHILL WATER & FIRE PRO AUTHORITY	1 of 2	AL	3855	43317	0.1%	10.8%
13	GREENHILL WATER & FIRE PRO AUTHORITY	2 of 2	AL	3855	43317	0.1%	10.8%
14	JACKSON WATER WORKS & SEWER BOARD	1 of 2	AL	3801	28701	1.4%	2.4%
15	JACKSON WATER WORKS & SEWER BOARD	2 of 2	AL	3801	28701	1.4%	2.4%
16	JASPER WATER WORKS AND SEWER BOARD		AL	29700	3163	12.9%	13.0%
17	LIMESTONE COUNTY WATER SYSTEM		AL	14625	37954	0.1%	12.3%
18	RED BAY WATER & GAS BOARD	1 of 4	AL	1200	484	2.2%	2.2%
19	RED BAY WATER & GAS BOARD	2 of 4	AL	1200	484	2.2%	2.2%
20	RED BAY WATER & GAS BOARD	3 of 4	AL	1200	484	2.2%	2.2%
21	RED BAY WATER & GAS BOARD	4 of 4	AL	1200	484	2.2%	2.2%
22	SHEFFIELD UTILITIES DEPARTMENT		AL	14574	44212	0.1%	10.6%
23	SPANISH FORT WATER SYSTEM		AL	2688	61870	0.7%	3.1%
24	UPPER BEAR CREEK WATER AUTHORITY		AL	32	297	3.6%	3.6%
25	WARRIOR RIVER WATER AUTHORITY		AL	8625	6134	6.7%	6.7%
26	WEST MORGAN-EAST LAWRENCE WATER AUTHORIT		AL	26130	38088	0.1%	12.3%
27	WISE ALLOYS LLC WATER SYSTEM		AL	2400	43317	0.1%	10.8%

(Continued)

DRAFT

William B. Bankhead National Forest in Alabama

(Continued) Public water system intakes receiving water from William B. Bankhead National Forest (2 of 3 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from William B. Bankhead NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
28	PADUCAH WATER WORKS	1 of 5	KY	8002	297480	< 0.05%	4.2%
29	PADUCAH WATER WORKS	2 of 5	KY	8002	57986	0.1%	8.3%
30	PADUCAH WATER WORKS	3 of 5	KY	8002	57986	0.1%	8.3%
31	PADUCAH WATER WORKS	4 of 5	KY	8002	57986	0.1%	8.3%
32	PADUCAH WATER WORKS	5 of 5	KY	8002	57986	0.1%	8.3%
33	US ENRICHMENT CORP		KY	2000	297846	< 0.05%	4.2%
34	BELLE CHASSE WATER DISTRICT		LA	17391	772387	< 0.05%	4.9%
35	DALCOUR WATERWORKS DIST		LA	2666	772387	< 0.05%	4.9%
36	DOMINO SUGAR		LA	360	772387	< 0.05%	4.9%
37	DOW USA, LA DIVISION		LA	3960	772171	< 0.05%	4.9%
38	E JEFFERSON WW DIST NO 1		LA	308362	772387	< 0.05%	4.9%
39	FERRIDAY TOWN OF		LA	3698	768605	< 0.05%	4.9%
40	GRAMERCY WATERWORKS		LA	2800	772276	< 0.05%	4.9%
41	GRETNA WATERWORKS		LA	17500	772387	< 0.05%	4.9%
42	LUTCHER WATERWORKS		LA	4781	772276	< 0.05%	4.9%
43	MARATHON PETROLEUM COMPANY LLC		LA	817	772276	< 0.05%	4.9%
44	NEW ORLEANS ALGIERS WW	1 of 2	LA	29120	772387	< 0.05%	4.9%
45	NEW ORLEANS ALGIERS WW	2 of 2	LA	29120	772387	< 0.05%	4.9%
46	NEW ORLEANS CARROLLTON WW	1 of 2	LA	214000	772387	< 0.05%	4.9%
47	NEW ORLEANS CARROLLTON WW	2 of 2	LA	214000	772387	< 0.05%	4.9%
48	NORANDA ALUMINA, LLC		LA	500	772276	< 0.05%	4.9%
49	ORMET CORPORATION		LA	65	772276	< 0.05%	4.9%
50	POINTE A LA HACHE W S		LA	1400	772387	< 0.05%	4.9%
51	PORT SULPHUR WATER DIST	1 of 2	LA	4461	772387	< 0.05%	4.9%
52	PORT SULPHUR WATER DIST	2 of 2	LA	4461	772439	< 0.05%	4.9%
53	SHELL CHEMICAL COMPANY		LA	675	772276	< 0.05%	4.9%
54	ST BERNARD PAR WATERWORK		LA	33000	772387	< 0.05%	4.9%
55	ST CHARLES WATER DIST NO 1 EB		LA	29517	772387	< 0.05%	4.9%
56	ST CHARLES WATER DIST NO 2 WB		LA	31485	772387	< 0.05%	4.9%
57	ST JAMES WATER DIST NO 1		LA	6120	772276	< 0.05%	4.9%
58	ST JAMES WATER DIST NO 2		LA	9000	772276	< 0.05%	4.9%
59	ST JOHN WATER DIST NO 1		LA	14670	772276	< 0.05%	4.9%
60	ST JOHN WATER DIST NO 2		LA	3702	772276	< 0.05%	4.9%
61	W JEFFERSON WW DIST NO 2	1 of 2	LA	104986	772387	< 0.05%	4.9%
62	W JEFFERSON WW DIST NO 2	2 of 2	LA	104986	772387	< 0.05%	4.9%

(Continued)

DRAFT

William B. Bankhead National Forest in Alabama

(Continued) Public water system intakes receiving water from William B. Bankhead National Forest (3 of 3 pages)

Intake ID	Public Water System name	Intake number for system	State	Population served by intake	Total surface water: Volume available to intake	Total surface water: Percent from William B. Bankhead NF only	Total surface water: Percent from all NFS lands[a]
					millions m^3/year		
63	WESTWEGO WATERWORKS		LA	8534	772387	< 0.05%	4.9%
64	SHORT COLEMAN PARK-NASA PLANT	1 of 2	MS	533	46483	0.1%	10.1%
65	SHORT COLEMAN PARK-NASA PLANT	2 of 2	MS	533	46104	0.1%	10.2%
66	TOWN OF TISHOMINGO		MS	810	552	1.9%	1.9%
67	CAMDEN WATER DEPT		TN	9667	54825	0.1%	8.6%
68	CLIFTON WATER DEPT		TN	3830	48327	0.1%	9.7%
69	E.I. DUPONT, NEW JOHNSONVILLE		TN	750	54912	0.1%	8.5%
70	FAT DADDY'S MARINA		TN	34	56365	0.1%	8.3%
71	FIRST U.D. OF HARDIN COUNTY		TN	6669	46483	0.1%	10.1%
72	NEW JOHNSONVILLE WATER DEPT		TN	2602	49156	0.1%	9.5%
73	PARSONS WATER DEPARTMENT	1 of 2	TN	2038	49156	0.1%	9.5%
74	PARSONS WATER DEPARTMENT	2 of 2	TN	2038	49156	0.1%	9.5%
75	WAVERLY WATER DEPARTMENT		TN	1935	54825	0.1%	8.6%

[a] This percentage includes water from William B. Bankhead National Forest.

DRAFT

DRAFT

Caldwell, P.; Muldoon, C.; Ford Miniat, C. [and others]. 2014. Quantifying the role of National Forest System lands in providing surface drinking water supply for the Southern United States. Gen. Tech. Rep. SRS-XXX. Asheville, NC: U.S. Department of Agriculture Forest Service, Southern Research Station. 135 p.

Forests and water are inextricably linked, and people are dependent on forested lands to provide clean, reliable water supplies for drinking and to support local economies. These water supplies are at risk of degradation from a growing population, continued conversion of forests to other land uses, and climate change. Given the variety of threats to surface water, it is important for forest managers to know how much of the drinking water supply originates in forests they manage and what populations and communities are served by that water. In this analysis, we used a hydrologic model, Water Supply Stress Index (WaSSI), and a database of surface water intakes to quantify the extent to which people depend on surface water from USDA Forest Service National Forest System (NFS) lands and State and private forest lands in the South. We computed the water yield for NFS lands in addition to other land cover types, and accumulated and tracked water from NFS and State and private forest lands through the river network. We then estimated the population served by water from NFS lands across the South using the U.S. Environmental Protection Agency's Safe Drinking Water Act database of drinking water intakes. We estimated that NFS lands contributed 3.4 percent and State and private forest lands 32.4 percent of the approximately 900 million m^3/year of total surface water supply in the region. Of the 6,724 public surface water intakes in the South, 1,541 intakes serving 19.0 million people receive some water from all NFS lands in and upstream of the 13 Southern States. Of the 1,541 intakes, 427 received more than 20 percent of their water from NFS lands and served 3.2 million people. Similarly, 6,188 intakes serving 48.7 million people receive some water from State and private forest lands. Of the 6,188 intakes, 3,143 received more than 20 percent of their water from State and private forest lands and served 29.0 million people. These results highlight the importance of southern forests in providing clean and dependable water supplies to downstream communities. While environmental and economic factors are likely to interact and cause changes in water availability and quality, forest conservation and proper management can help mitigate these effects.

Keywords: drinking water, hydrologic modeling, National Forest System, State and private forest lands, WaSSI, water supply.

DRAFT

Please direct questions and/or comments regarding
the content of this publication to the coresponding author,
Peter Caldwell at pcaldwell02@fs.fed.us.

How do you rate this publication?

Scan this code to submit your feedback or go to www.srs.fs.usda.gov/pubeval

DRAFT

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.)

Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410, or call (800) 795-3272 (voice) or (202) 720-6382 (TDD).