





Economic Benefits of North Carolina's Forests

2 0 2 5 C A L E N D A R









The North Carolina Forest Service is a division of the North Carolina Department of Agriculture and Consumer Services

Steve Troxler, Commissioner





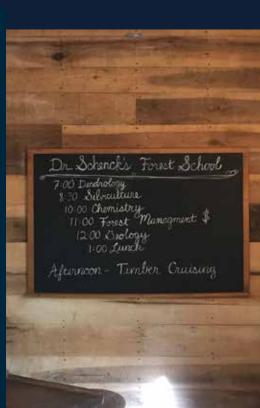




Birthplace of American Forestry







JANUARY 2025

North Carolina is known as the birthplace of American forestry. In 1892, George W. Vanderbilt hired Gifford Pinchot, a professional forester trained in France and Germany, to develop America's first forest management plan for his sprawling 125,000-acre Biltmore Estate in Western North Carolina. In 1895, Dr. Carl Alwin Schenck, a forester born and educated in Germany, arrived in America as Pinchot's replacement as resident forester for the Biltmore Estate. To train others to assist him in the woods, he started the Biltmore Forest School, America's first forestry school. The school operated from 1898 to 1913.

			operated from 1050 to	1010.		
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
DECEMBER 2024 SU MO TU WE TH FR SA 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	30	31	1 New Year's Day	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20 Martin Luther King, Jr. Day	21	22	23	24	25
26	27	28	29	30	31	FEBRUARY 2025 SU MO TU WE TH FR SA 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28

To learn more about North Carolina's forests and how to sustainably manage them, visit:



FORESTRY'S ECONOMIC IMPACT ON NC

The agriculture industry, including forestry, is North Carolina's leading economic driver. In 2022, with direct, indirect and induced effects, North Carolina's forest sector contributed the following to the state's economy:





1.06
Jobs Created
for Every
Forestry Role

\$0.65
Additional Contribution for Every
\$1 Generated by the Forest Sector



Source: NCSU Extension Forestry



Economic Contributions





Forestry plays a key role in the economy of North Carolina. Our state has more than 18 million acres of timberland, which supports a robust forest sector including forestry and logging operations, sawmills, furniture mills, and pulp and paper industries. The forest sector is a major contributor to North Carolina's economic well-being, supporting communities across all 100 counties. In 2022, the forest sector in North Carolina contributed \$25.8 billion in direct industry output, nearly 2% of the statewide total, and was the top manufacturing sector in the state.

FEBRUARY 2025

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
JANUARY 2025 SU MO TU WE TH FR SA 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	27	28	29	30	31	Prescribed Fire Awareness Month
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	National Invasive Species Awareness Week	25	26	27	28	MARCH 2025 SU MO TU WE TH FR SA 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

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Shade from North Carolina's tree canopy cover reduces our energy bills \$150 million per year.

Nowak & Greenfield, 2018



Urban forestry in North Carolina contributes about \$3.53 billion per year to the state's economy.

Parajuli et al, 2022



Urban trees in North Carolina capture 2.1 M tons of carbon per year.

Nowak & Greenfield, 2018



Urban trees in North Carolina capture 50,300 tons of air pollutants per year.

Nowak & Greenfield, 2018



In Raleigh, residential trees were found to reduce stormwater runoff by 9.1-24.1%.

Inkiläinen et al, 2013



Urban and Community Forests





MARCH 2025

Trees make our homes, villages, towns and cities better places to live, providing beauty, economic and environmental benefits, and improving human health. Each year, North Carolina's 320 million community trees capture more than 50,000 tons of air pollutants, 2.1 million tons of carbon and reduce our energy bills by \$150 million. In the city of Raleigh, stormwater runoff is reduced by 9.1% to 24.1%. and shade provided by community trees reduces our energy bills by \$150 million a year. In 2019, the urban forestry industry contributed \$3.53 billion to our economy, and tree cover at private homes adds \$1.9 billion annually to property values. Community trees are the ecosystem services infrastructure of our communities and the longer they live the more benefits they provide.

	longer they live the more benefits they provide.							
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY		
FEBRUARY 2025 SU MO TU WE TH FR SA 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28	APRIL 2025 SU MO TU WE TH FR SA 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	25	26	27	28	1		
2	3	4	5	6	7	8		
9 Daylight Saving Time begins	10	11	12	13	14	15		
16	17	18 National Ag Day	19	20 First Day of Spring	International Day of Forests	22 World Water Day		
23	24	25	26	27	28	29		
30	31							

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Forest Ecosystem Services





Forests improve the quality of air, water and our experiences in nature. They attenuate and sustain the flow of water into streams, which reduces flooding and storm damage. The filtered water and air from forests lower costs of treating drinking water, provide wildlife habitat and improve air quality. On a global scale, trees offset one-sixth of U.S. emissions. Forests inherently provide these ecosystem services, which are essential to life. Ecosystem services are public goods that can be monetized to better guide land management decisions. Not all of these services are traded in the marketplace but some such as carbon have gained momentum and interest. Now some landowners can even benefit from alternative income opportunities through forest carbon offset markets.

APRIL 2025

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
MARCH 2025 SU MO TU WE TH FR SA 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	31	Invasive Plant Pest and Disease Awareness Month	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18 Good Friday	19
20	21	22 Earth Day	23	24	25 National Arbor Day	26
27	28	29	30	1	2	NAY 2025 SU MO TU WE TH FR SA 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

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Forest Product Manufacturing





MAY 2025

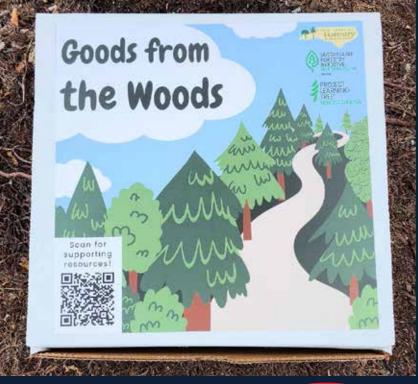
Mills and manufacturing businesses across North Carolina produce a multitude of products from our state's bountiful and sustainable forests. Common products include both pine and hardwood lumber, plywood, veneer, oriented strand board, poles and posts, medium density fiberboard, barrel staves, shavings, pulp, paper and packaging, wood pellets, furniture, millwork, cabinets, containers and pallets, flooring, trusses, preserved wood, chemical products, firewood, and woody biomass for energy production.

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
APRIL 2025 SU MO TU WE TH FR SA 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	SU MO TU WE TH FR SA 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	29	30	National Wildfire Awareness Month	2	National Fallen Firefighters Memorial Weekend
4	5	6	7	8	9	10
11	12	13	14	15	16 National Love a Tree Day	17
18	19	20	21	22	23	24
25	26 Memorial Day	27	28	29	30	31

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Goods from the Woods





There are more than 5,000 wood and paper products that we use and enjoy each day! Unlike fossil fuels, metal and plastics, wood can be harvested, used, regrown and harvested again and again in a never-ending cycle. With proper forest management, we can enjoy thousands of products and still have plenty of trees for wildlife habitat, clean air and water, recreation, and aesthetic beauty today and in the future. Goods from the Woods kits contain 14 products derived from trees, a description of the product and the Project Learning Tree Activity "We All Need Trees." Kits are available to North Carolina educators by contacting the NC Forestry Association.



SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
NAY 2025 SU MO TU WE TH FR SA 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	SU MO TU WE TH FR SA 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	27	28	29	30	31
1 National Great Outdoors Month	2	3	4	5	6	7 National Trails Day
8	9	10	11	12	13	National Get Outdoors Day Flag Day
15	16	17	18	19	20 First Day of Summer	21
22	23	24	25	26	27	28
29	30					

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Other Forest Products







JULY 2025

North Carolina's woodlands are the source of thousands of "other" forest products, harvested for their food, medicinal, craft and decorative values. Many have important social, economic and ecological values integral to the culture of North Carolina. Certain products have established local, national and international markets. These products are harvested from the wild as well as in forest farming operations. Ginseng, goldenseal, ramps, Galax, mushrooms, pine straw and firewood are just a few examples.

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
29	30	1	2	3	4	5
		NCFS Seedling Store opens			Independence Day	
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31	SU MO TU WE TH FR SA 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	AUGUST 2025 SU MO TU WE TH FR SA 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

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Forestry Sector Jobs





In 2022, North Carolina's forest sector employed approximately 151,700 full-time and part-time jobs with a payroll of about \$10.1 billion. This was an 8.6% increase over 2021, about 12,000 more jobs. Solid wood products industries gained more than 9,200 jobs in 2022, compared with the previous year. The forest sector is the #1 industry in terms of manufacturing jobs, supporting over 2,700 more jobs than the #2 food manufacturing sector. Most of these jobs occur in rural areas of the state, contributing immensely to the economic vitality of rural North Carolina.

AUGUST 2025

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
SU MO TU WE TH FR SA 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	SU MO TU WE TH FR SA 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	29	30	31	1	2
3	4	5	6	7	8	9 Smokey Bear's 81 st Birthday
10	11	12	13	14	15	16
17	18	19	20	21	22	23
31	25	26	27	28	29	30

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Forest Product Exports





SEPTEMBER 2025

North Carolina's forests are a source of many forest products that are exported around the world, including lumber, plywood, industrial wood pellets, wood chips, market pulp, paper and packaging, as well as pine and hardwood logs, and many finished wood products. In 2022, international exports from North Carolina's forest sector totaled about \$1.72 billion. A more in-depth study published in 2018 found that North Carolina forest sector exports were valued at \$1.95 billion annually using an origin of production methodology to account for additional downstream activities to move forest products to the port vessel.

	activities to move forest products to the port vessel.						
SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY	
AUGUST 2025 SU MO TU WE TH FR SA 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	1 Labor Day	2	3	4 National Wildlife Day	N.C. Mountain State Fair begins	6	
7	8	9	10	11	12	13	
N.C. Mountain State Fair ends	15	16	17	18	19	20	
21	22 First Day of Autumn	23	24	25	26	National Public Lands Day	
28	29	30	1	2	3	CTOBER 2025 SU MO TU WE TH FR SA 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	

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The South accounts for more than half of timber production in the United States. Forestry and the forest products industry contributes:



More than \$251 billion to the South's economy



More than 18% of the world's pulpwood for paper and paper-related products



7% of the world's industrial roundwood



More than 2.7% of the region's economic output



1.1 million jobs



more than \$53 billion in income



Forest Products Celebration



The forests of the southern United States are often described as the "wood basket of the world" as they generate more than 55% of U.S. timber harvests by volume. Additionally, the southern region produces more wood products than any other nation, except the United States itself. Southern U.S. forests are our nation's greatest renewable natural resource and are a major economic driver on the world stage. National Forest Products Week is celebrated annually the third week of October.

OCTOBER 2025

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
SEPTEMBER 2025 SU MO TU WE TH FR SA 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30	29	30	1 Firewood Month	2	3	4
5	6	7	8	9	10	11
12	13	14	15	N.C. State Fair begins	17	18
National Forest Products Week Begins	20	21	22	23	24	25
26 N.C. State Fair ends	27	28	29	30	31	NOVEMBER 2025 SU MO TU WE TH FR SA 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

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Emerging Forest Products





NOVEMBER 2025

Some new and emerging forest products include cross-laminated timber, nano-cellulose products, microcrystalline cellulose for pharmaceuticals and food, wood-plastic composites, and biochar. These innovative forest products are gaining attention for their sustainability, durability and versatility in various applications. These advancements have the potential to greatly accelerate forest restoration work by providing new markets for very low value fiber.

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
OCTOBER 2025 SU MO TU WE TH FR SA 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	DECEMBER 2025 SU MO TU WE TH FR SA 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	28	29	30	31	1
2 Daylight Saving Time ends	3	4	5	6	7	8
9	10	11 Veterans Day	12	13	14	15
16	17 National Take a Hike Day	18	19	20	21	22
23	24	25	26	27	28	29
30				Thanksgiving		

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Christmas Tree Production





North Carolina grows more than 26% of the Christmas trees in the U.S and is ranked second in the nation in number of trees harvested and cash receipts. More than 40,000 acres is estimated to be in Christmas tree production, mostly in the far western portion of our state. Ninety-four percent of all North Carolina -grown Christmas trees are Fraser fir, North America's most popular Christmas tree.

North Carolina-grown Fraser firs have been chosen for the official White House Christmas tree 14 times, more than any other species. North Carolina Christmas trees are shipped to every state in the U.S as well as worldwide. North Carolina's 850+ Christmas tree growers harvest an average of 5-6 million trees annually, generating an estimated wholesale value of \$100 million which is more than \$250 million in retail value.

DECEMBER 2025

SUNDAY	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
30	1	2	3	4	5	6
					World Soil Day	
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
First Day of Winter				Christmas Day		
28	29	30	31	1	NOVEMBER 2025 SU MO TU WE TH FR SA	JANUARY 2026 SU MO TU WE TH FR SA
					1 2 3 4 5 6 7 8	1 2 3
					9 10 11 12 13 14 15 16 17 18 19 20 21 22	4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
					23 30 24 25 26 27 28 29	25 26 27 28 29 30 31

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FORESTRY EDUCATION RESOURCES

FIRST IN FORESTRY LICENSE PLATES

The First in Forestry license plate recognizes the significance of forestry in North Carolina and the state's status as the birthplace of professional forestry in the United States. The fee for the plate is \$30, or \$60 for a customized plate, of which \$20 is directed to programs that promote forestry education, state forests



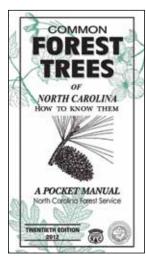
and the protection and development of state forests, soil, water and wildlife resources.

First in Forestry license plates are available for purchase online from the N.C. Division of Motor Vehicles at www.ncdot.gov/dmv and at DMV offices across the state.

COMMON FOREST TREES OF NORTH CAROLINA AND HOW TO IDENTIFY THEM

More than 20 editions of this pocket guide have been printed since John Simcox Holmes, North Carolina's first state forester, authored the first edition in 1922. Holmes' idea was to provide an easy-to-use reference guide for people of all ages to recognize many of our common forest trees on sight. That goal has not changed.

The pocket guides are available for a nominal cost. Request your copy at www.ncforestservice.gov/publications.htm > Education & Outreach.



NORTH CAROLINA STATE FORESTS

DUPONT STATE RECREATIONAL FOREST

DuPont State Recreational Forest, the state's first recreational forest, is managed primarily for natural resource conservation, scenic enjoyment and a variety of recreational purposes including hunting and fishing. DSRF spans more than 12,000 acres and includes wooded slopes and granitic domes ranging in elevations from 2,240 feet at Hooker Falls to 3,620 feet at Stone Mountain. Unique ecological communities, lakes, waterfalls along Little River and Grassy Creek, and a multiuse trail system are also found within this forest.

www.dupontstaterecreationalforest.com

BLADEN LAKES STATE FOREST

Bladen Lakes State Forest (BLSF) covers more than 33,000 acres, making it the largest stateowned forest in North Carolina. BLSF is designated as a self-sustaining demonstration forest, a "show me" forest, designed to demonstrate operational techniques in reforestation, prescribed fire, road construction, logging, forest product utilization, etc. BLSF is also a working forest, actively managed and creating its own income.

www.ncforestservice.gov/bladenlakes

HEADWATERS STATE FOREST

Opened in 2018, Headwaters State Forest is one of the newest state forests in North Carolina. It combines natural resource conservation objectives while providing low-impact, dispersed recreational opportunities for residents. The nearly 7,000-acre property is rugged and remote without public facilities. Visitors should have contingency plans prepared before starting any foot travel activity in Headwaters State Forest.

www.ncforestservice.gov/headwaters

EDUCATIONAL STATE FORESTS

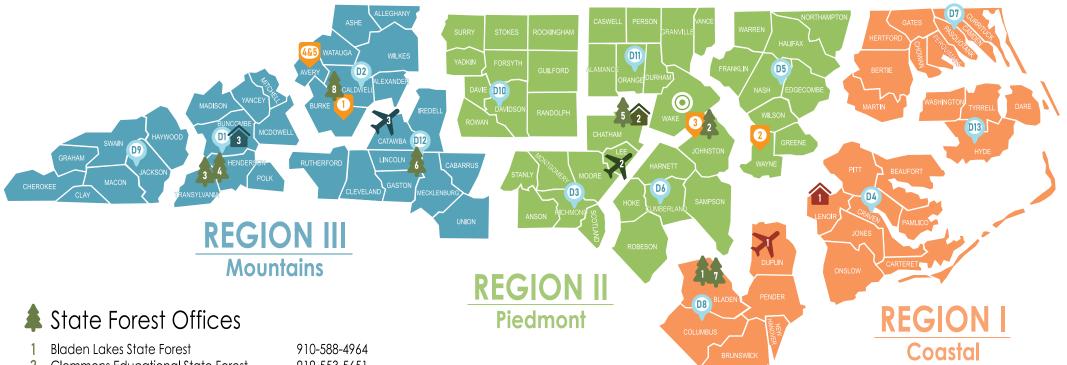
The N.C. Forest Service operates six educational state forests (ESFs) designed to teach the public, especially school children, about the forest environment.

Each ESF features self-guided trails, tree identification signs, a forest education center and a "Talking Tree" trail. Education forest rangers are available to conduct classes for school and other youth groups. Classes are compatible with teaching objectives listed in the N.C. Department of Public Instruction's science curriculum.

Learn more about each ESF at www.ncesf.org.



N.C. FOREST SERVICE STATEWIDE CONTACTS



1	Bladen Lakes State Forest	910-588-4964
2	Clemmons Educational State Forest	919-553-5651
3	DuPont State Recreational Forest	828-877-6527
4	Holmes Educational State Forest	828-692-0100
5	Jordan Lake Educational State Forest	919-542-1154
6	Mountain Island Educational State Forest	704-822-9518
7	Turnbull Creek Educational State Forest	910-588-4161
8	Tuttle Educational State Forest	828-757-5608

Other Offices

1	B.R.I.D.G.E.	828-544-6600
2	Goldsboro Forestry Center/Claridge Nursey	919-731-7988
3	Griffiths Forestry Center	919-553-6178
4	Linville River Nursery	828-733-5236
5	Mountain Training Facility	828-733-4242

District Offices

D1	Asheville	828-667-521
D2	Lenior	828-757-561
D3	Rockingham	910-997-9220
D4	New Bern	252-649-6770
D5	Rocky Mount	252-442-162
D6	Fayetteville	910-437-2620
D7	Elizabeth City	252-331-478
D8	Whiteville	910-788-5050
D9	Sylva	828-586-400
D10	Lexington	336-956-211
D11	Hillsborough	919-732-810
D12	Mount Holly	704-827-757
D13	Fairfield	252-926-304

Raleigh, NC 27699-1600 Raleigh, NC 27604

Regional Offices

Central Office

1616 Mail Service Center

	Kinston	252-775-6200
2	Jordan Lake	919-542-1515
3	Asheville	828-665-8688

919-857-4801

Archdale Building

512 North Salisbury St.

X Aviation Bases

1	East (Kenansville)	910-275-6520
2	Central (Sanford)	919-775-7534
3	West (Hickory)	828-322-8234

To find your county ranger's phone number, visit ncforestservice.gov/contacts. To obtain a free burn permit, visit ncforestservice.gov/burnpermit.

Contact your local N.C. Forest Service county ranger's office for advice and assistance on achieving your woodland management goals.

For a county-by-county list, refer to: www.ncforestservice.gov/contacts.





www.ncforestservice.gov





