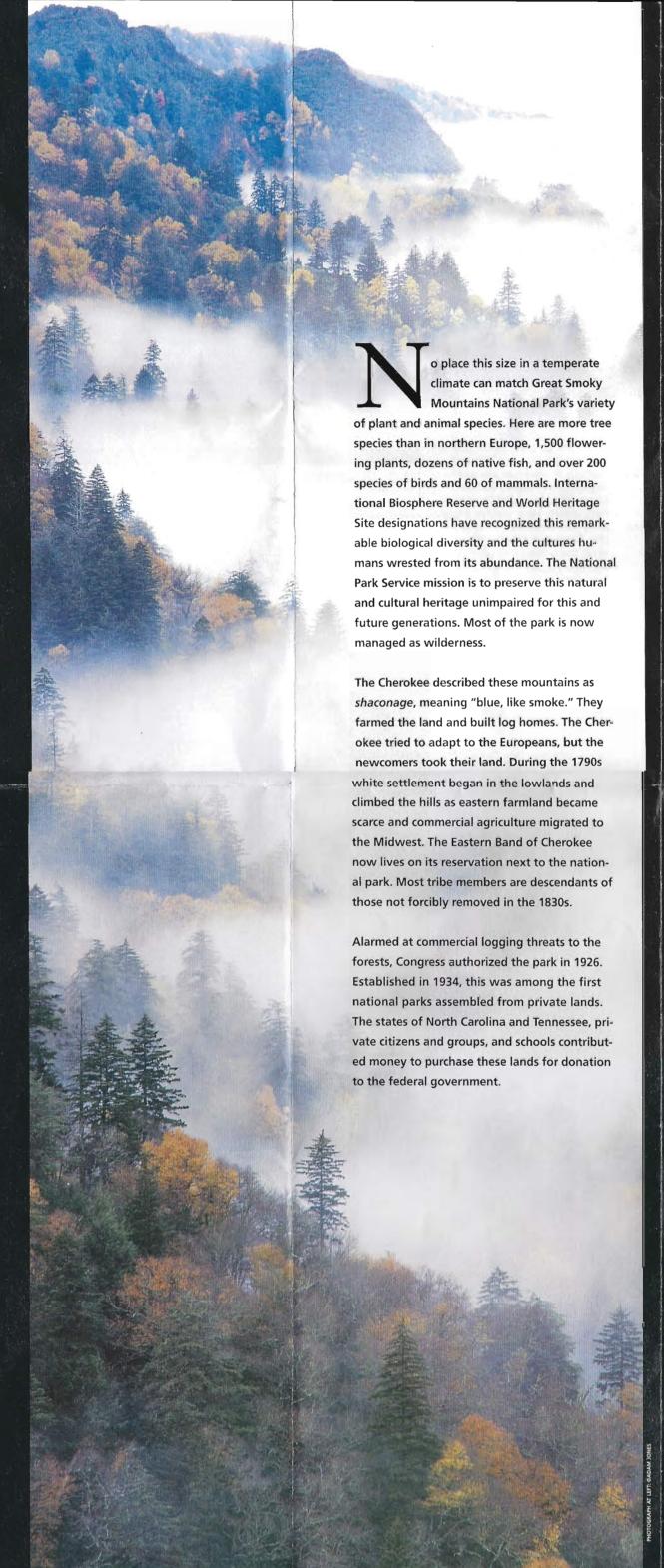


Nati U.S.



Spruce-Fir Forest Growing on the highest park peaks, this evergreen forest is predominantly Fraser fir and red spruce. You can see it along the Spruce-Fir Nature Trail off the road to Clingmans Dome. Some high peaks bear treeless balds. Grassy balds may need human disturbances to stay grassy, so the park maintains the historic look of two. Heath balds of rhododendron, mountain laurel, azalea, and other evergreen heath shrubs can maintain hemselves. Air pollution reduces visibility and causes damage to the trees from ground-level ozone. Precipitation: 85 inches yearly Elevation: 4,500 up to 6,600 feet **Northern Hardwood Forest** Broadleaved trees well adapted for high elevations make up this forest

Broadleaved trees well adapted for high elevations make up this forest type. Predominantly beech and yellow birch, it includes mountain and striped maples, white basswood, and yellow buckeye. Northern hardwood forest interrupts spruce-fir forests at intervals along the road to Clingmans Dome—growing at higher elevations than any other deciduous forests in the East. Deer, bears, grouse, turkeys, and squirrels eat beechnuts for vital protein but now must compete with

non-native European wild hogs for

Elevation: above 4,500 feet

Cove Hardwood Forest

A cove is a sheltered valley with deep, rich soils. If sacred groves exist they are these old-growth cove hardwood forests loggers missed. This most diverse park forest type includes yellow birch, beech, buckeye, basswood, Carolina silverbell, yellow-poplar, sugar maple, magnolia, hickory, and eastern hemlock. Record-size trees and contenders abound. See this forest type, one of the world's most diverse plant communities, along the Cove Hardwood Nature Trail off Newfound Gap Road at Chimneys Picnic Area.

Elevation: In coves and on sheltered slopes up to 4,500 feet

Hemiock Forest

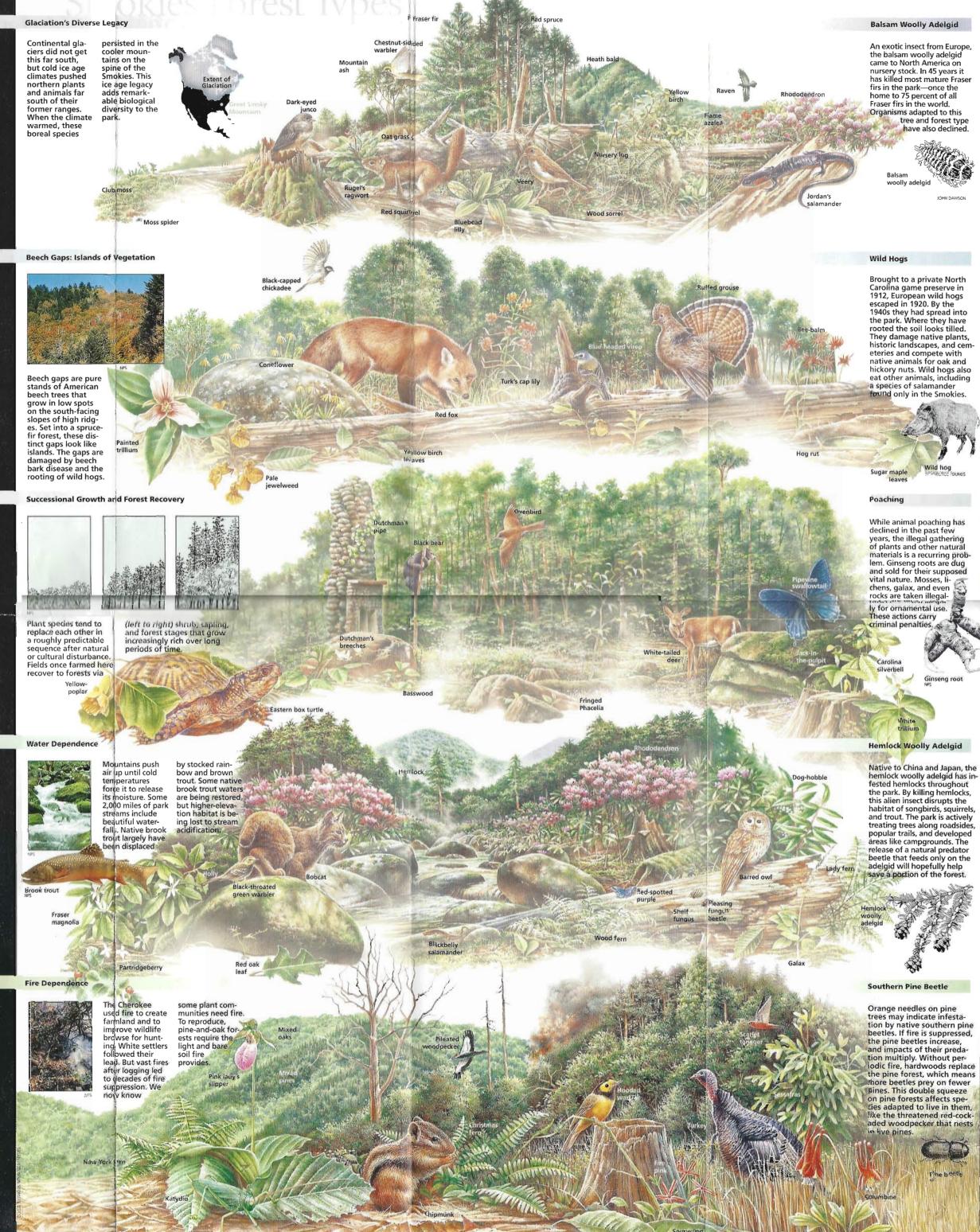
Evergreen hemlock trees dominate stream sides and the shaded, moist slopes at lower elevations. They also may grow in drier settings at somewhat higher elevations. These trees were cut in pre-park days for their tannin-rich bark used in tanning leather. Hemlocks in the park have been infested by a non-native insect, the hemlock woolly adelgid.

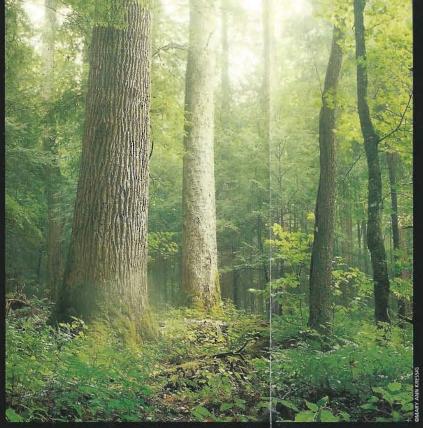
Elevation: along streams up to 3,000 feet; on dry, exposed slopes and ridges up to about 4,000 feet

Pine-and-Oak Forest

Where dry slopes are heavily exposed to direct sunlight, oak or pine-and-oak forests predominate. Both forest types include rhododendron and mountain laurel thickets and yellow-poplar, hickory, and flowering dogwood trees. Dogwoods are springtime attractions of the forest understory, but they are dying from the non-native dogwood anthracnose fungus. The park has 11 species of oak trees and five species of pines.

Precipitation: 55 inches yearly Elevation: On dry, exposed slopes and ridges up to about 4,500 feet





Late 18th-century European naturalists found a botanically rich world new to them in the mountainous homelands of the Cherokee Indians. New organisms continue to be discovered.

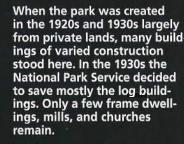
Cherokees adapted very quickly to great changes that new-comers brought. Even before the Revolutionary War they were deeply involved in the fur trade with Europe, via Charleston, South Carolina. Long after the Trail of Tears, ethnologist James Mooney came to study the Eastern Cherokee who had managed to stay. He photo-graphed Walini (right) on the Qualla Reservation in 1888.





Mollie McCarter Ogle and Mattie, circa 1928

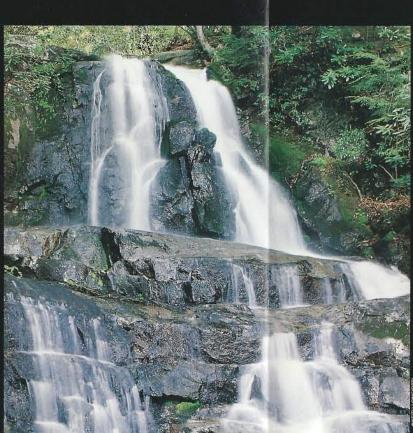
John Walker, 1918

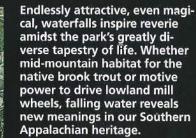


Travel and local-color writers stereotyped mountain people as backward and geographically isolated. In fact, pre-park residents took part in the immense changes of the larger society of that time, and they actively engaged in the cash-based market economy.



Many people come to Great Smoky Mountains National Park to discover how their forebears lived. Punctuating its phenomenal biodiversity is the park's collection of vernacular and rustic architecture. Here is one of the nation's largest collections of log structures along with many buildings constructed during the Depression-era Civilian Conservation Corps work program. You can experience Oconaluftee Cherokee Indian culture and traditions at programs and museums on their reservation, Qualla Boundary, south of the park. Less visible are vestiges of early commercial routes and mining operations. These linked many people to markets abroad and lent diversity to the farm life of most Indians and newcomers. Enjoy the park and discover the heritage of natural and cultural diversity it preserves for all time.





You are connected to these resources. Waterfalls symbolize the flow of natural processes we take part in daily. Mill wheels turned by wild mountain streams . . . nature and culture proclaim our unity here.



Season-by-season tips for seeing Great Smoky Mountains National Park are found in the Smokies Guide, the official park newspaper. Read its important information on safety and regulations to protect you and the park's natural and cultural features. Free copies are found at visitor centers and other park locations.

Please ask at a visitor center for accessibility information.

Visitor centers—at Sugarlands, Cades Cove, and Oconalufteeare great information sources. See their exhibits, talk with a ranger or volunteer to find out how to use your time here. Browse their bookshops for guidebooks, maps, and videos.

Check the park's website for current events and programs, park information, and links to sites about nature and culture in the park. www.nps.gov/grsm.

From your car you can see much of what the Smokies offer, including wildflowers, flowering trees, colorful fall foliage, mountain vistas, and historic buildings. Newfound Gap Road (U.S. 441), the main road across the mountains, is a famous scenic drive.

Other park roads offer glimpses of the park's natural and cultural heritage and also link you to self-guiding trails and short footpaths to other park attractions for more intimate insights into this great public treasure.

Walking a park trail can be the best way to sense how directly you are related to the world of nature. Walking even short distances can put you in a totally different world. The lack of human-generated noise opens up the world of natural sounds.

Simply being inside the magnificent forests can be a multi-sensory experience rich with sights, sounds, smells, and that special skin warmth felt as light rays penetrate the deep shade cast by a forest canopy. Dwarfed by the trees, your sense of scale may even be altered.

The Appalachian Trail threads

nearly the length of the national park (some 70 miles) along the Smokies' crest and the Tennessee North Carolina border. You can take this national scenic trail north to Maine's Mount Katahdin or south to Georgia's Springer Mountain. Volunteers coordinated by the nonprofit Appalachian Trail Conservancy maintain it. On the two-mile stretch heading south from Newfound Gap, accessible near the Newfound Gap parking lot, you can see wildflowers in spring or colorful foli age in fall. Then you can say: "I walked a part of the 2,174mile-long Appalachian Trail."

Bicycling is especially popular on the Cades Cove Loop Road. Ask about special bicyclist and pedestrian-only hours on the loop road in summer. At Cades Cove you cycle on the 11-mile road through open fields encircled by mountains. You can stop at the

historic buildings preserved there. Bicycles are allowed on park roads, but many are winding, steep, or narrow and shared by many motorists new to mountain driving. Bicycles are prohibited on nearly all park trails; ask at visitor centers about excep-

Horseback riding also offers a good pace for seeing the park. Auto-access horse camps provide access to backcountry trails, but space is limited. Horses can be hired by the hour at several park locations for guided trail fides. Horse camps and rentals are not available for parts of the winter. Check schedules at a visitor center, in the Smokies Guide, or on the park website.

Backcountry hiking can immerse you in these Southern Appalachian mountain wildlands. Any overnight backcountry use requires a backcountry use permit. You also need proper equipment, adequate preparation, specific use information, and, for some areas, reservations. Please learn and use the techniques of the Leave No Trace outdoor ethic. For the information you need, ends, and landscape photogracheck the park website of the Smokies Guide or call the Backcountry Information Office at 865-436-1297.

This is bear country. To protect you and the American black bears here, federal law requires proper food storage. Store all food in the trunk of your vehicle and place all garbage entirely within bearproof trash cahs or

dumpsters. Clean up food scraps in and near camp and on grills and table tops, so bears do not become habituated to human food and garbage. Such bears eventually lose their natural fear of humans and become aggressive problem bears that are killed by automobiles, are easy targets for poachers, or must be destroyed. Please don't be bear

Feeding wildlife or picking plants is subject to a \$5,000 fine and six months imprisonment.

Have fun learning more about the park's nature and history in programs offered by the Great Smoky Mountains Institute at Tremont and by the Smoky Mountain Field School. Programs vary from one day to a week or more and are offered for ages nine to 17 and for adults, including elderhostel participants.

Check the Smokies Guide to find out how you can participate in learning experiences like overnights, hiking weeks, summer camp, canoeing, wildlife seminars, elderhostels, teacher weekphy. These and other programs cover many topics—backpacking, geology, spring wildflowers, park history, and birds and other wildlife of the park area.

Great ways to support the park include joining the nonprofit Great Smoky Mountains Association and the Friends of Great Smoky Mountains National Park. Both groups exist to help the

park and to help you care for, learn about, and support the park, including opportunities to volunteer. Find details in the

Pets are permitted in the park on a leash only; they are prohibited on trails or cross-country

Air pollution from outside the park plagues its views, visitors, forests, wildlife, and waters. Since 1948 haze from air pollution has reduced average visibility 40 percent in winter and 80 percent in summer. Ground-level ozone, a respiratory irritant for humans, also damages plants, especially at higher elevations. Acidic precipitation and nitrogen overloads block plant nutrients and release toxic aluminum that can harm plants and

Smokies Guide or ask at a visitor

or Gatlinburg (Tenn.) police, 865-More information **Great Smoky Mountains** National Park 107 Park Headquarters Road

> **Great Smoky Mountains National** Park is one of over 390 parks in the National Park System. To learn more about parks and National Park Service programs in America's communities visit www.nps.gov.

For campground reservations

(other than backcountry) call:

For emergencies call: Park head-

quarters, 865-436-9171; Chero-

kee (N.C.) police, 828-497-4131;

1-877-444-6777.

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www.nps.gov/grsm

865-436-1200



