Catoctin Mountain Park

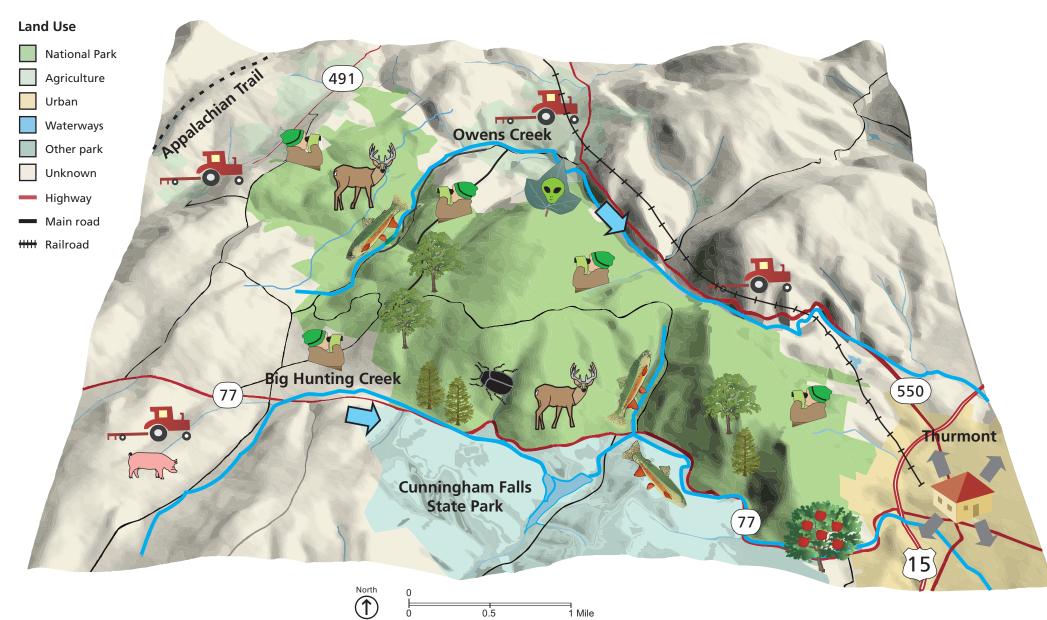
Maryland

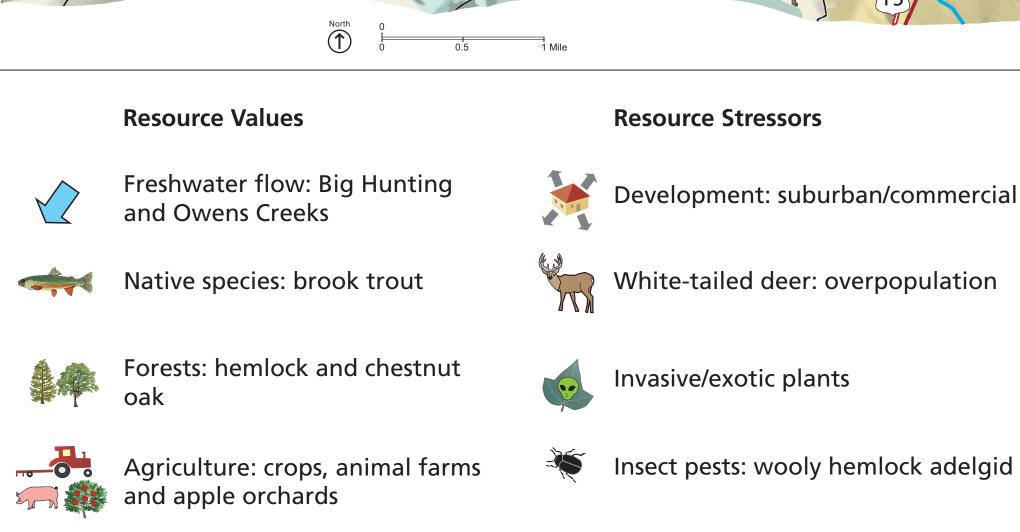


A Forested Gem of the Mid-Atlantic

Catoctin Mountain Park originated as a Recreation Demonstration Area in 1936 and is managed

today for its recreational use and the conservation of its cultural and natural resources. The park encompasses 5,810 acres of mixed hardwood forest located in the mountains of the Catoctin Ridge in north-central Maryland. Two high-quality streams bisect the park and the unique three million year old geology forms a number of cliffs and scenic vistas. Management issues include the effects of white-tailed deer overpopulation, exotic invasive plants, gypsy moth, hemlock woolly adelgid, and dogwood anthracnose. Water quality degradation is also a concern as residential and agricultural activity increase along the park's boundary.







A fallen tree stump covered in colorful shelf fungus.

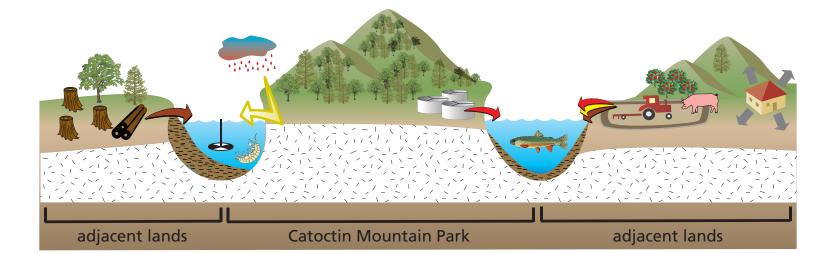
Scenic vistas



Water Quality and Hydrology

Headwaters' protection promotes pristine water resources



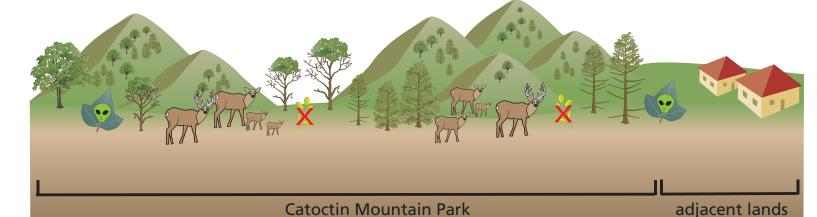


Streams of excellent quality are an important natural component of Catoctin Mountain Park. The headwaters of Big Hunting Creek and Owens Creek are highly valued for their native populations of brook trout , natural beauty, and superior water quality . Streams also provide habitat for diverse macroinvertebrate communities . The future integrity of water resources is threatened by sediment , pesticide , and nutrient inputs from residential development , and agricultural , and logging activities adjacent to the park, and by toxic runoff from acid rain deposition over the impermeable quartzite bedrock .



Biodiversity Deer overgrazing degrades forest condition





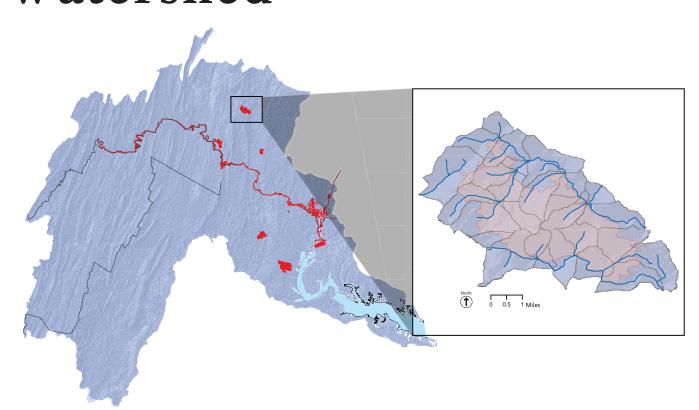
White-tailed deer are a natural component of this forest ecosystem, but overstocked populations can have negative effects on forest regeneration. Deer grazing can greatly reduce the number of seedlings and saplings in the forest, thus altering the natural patterns of forest succession and providing new opportunities for non-native invasive plant species to move into the forest.





The invasive plant, *Mile-A-Minute*, is aptly named and requires constant control measures.

Catoctin Mountain Park Watershed





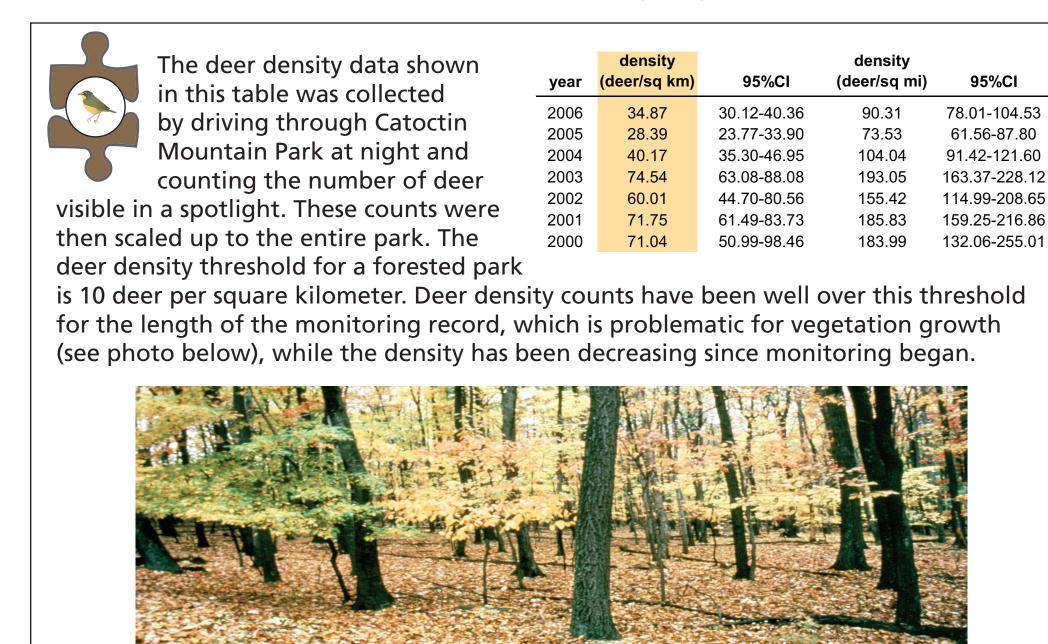
(Above left) Potomac River watershed and National Capital Region Network parks (red). (Above right) Catoctin Mountain Park watershed and boundary.

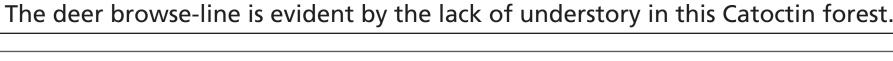
Park map showing major roads and waterways.

Vital Signs Monitoring Assembling the puzzle

Park vital signs monitoring is designed to inform managers of the condition of water, air, plants and animals, and the various ecological, biological, and physical processes that act on those resources. This site-specific data will provide parks the information needed for ecologically sound management of the natural resources.

In Catoctin Mountain Park, data are being collected on **Water Quality and Hydrology** and **Biodiversity**, with reference to park specific concerns as well as understanding regional issues.







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