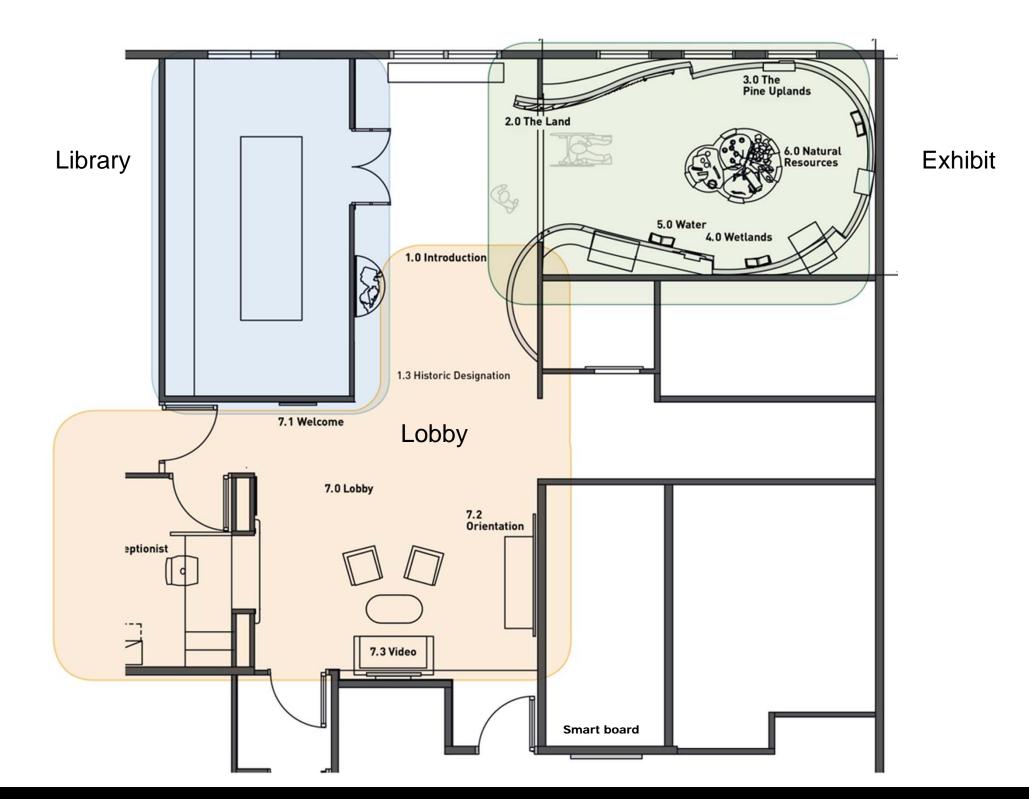


NJ Pinelands Commission R.J. Sullivan Center Exhibits



Welcome to the New Jersey Pinelands.

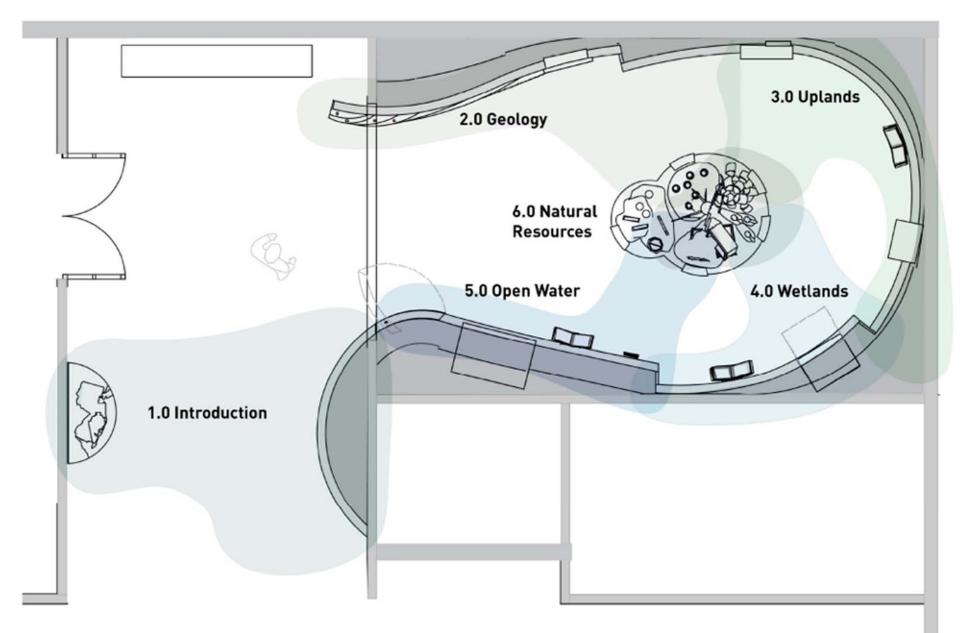
The New Jersey Pinelands Commission – Preserving, protecting, and enhancing the natural and cultural resources of the Pinelands National Reserve.



Orientation Map & Brochure Rack



Exhibit Content Plan





1.0 Introduction

The New Jersey Pinelands A place like no other

You may be in the middle of the nation's most densely populated state, but you're also on the edge of a surprisingly vast wilderness—the million-acre Pinelands National Reserve, it's a fragile and unique ecosystema patchwerk of forests adapted to fire, wetlands full of rare species, slow-moving rivers, abandoned industrial sites, active farms, and modern towns.

The Pinelands is a place worth understanding and exploring. You can find out about it here and then wander the saind roads to discover some of its many wonders.

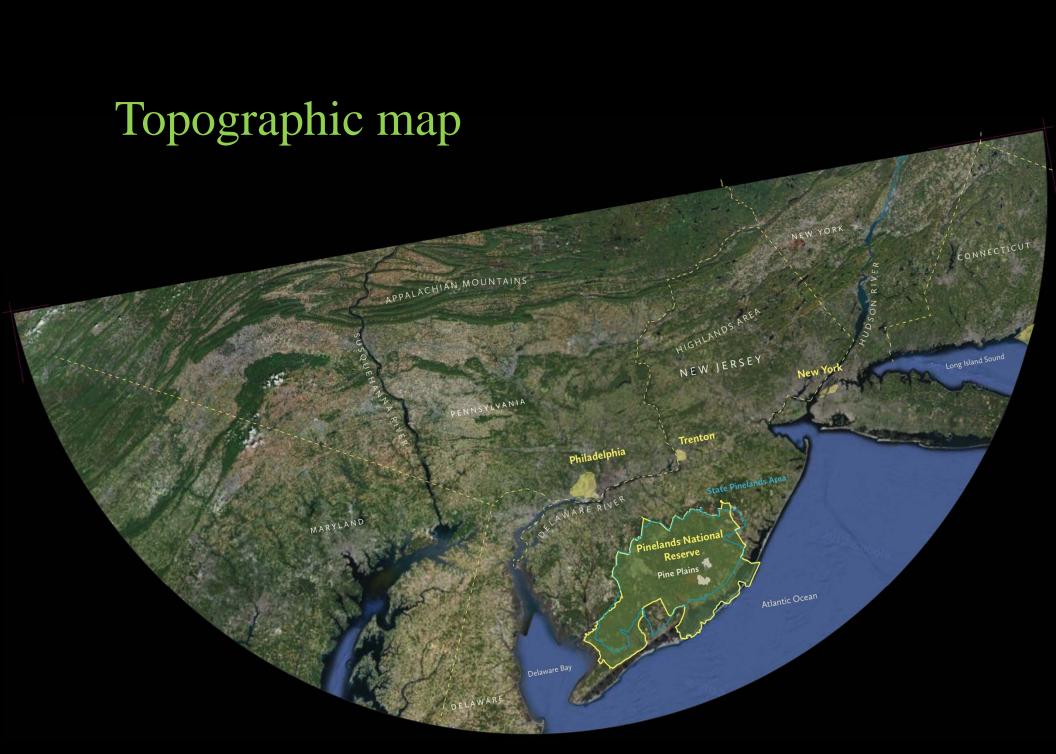
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More than just pines Discover the secrets of the Pinelands





More than just pines Discover the secrets of the Pinelands

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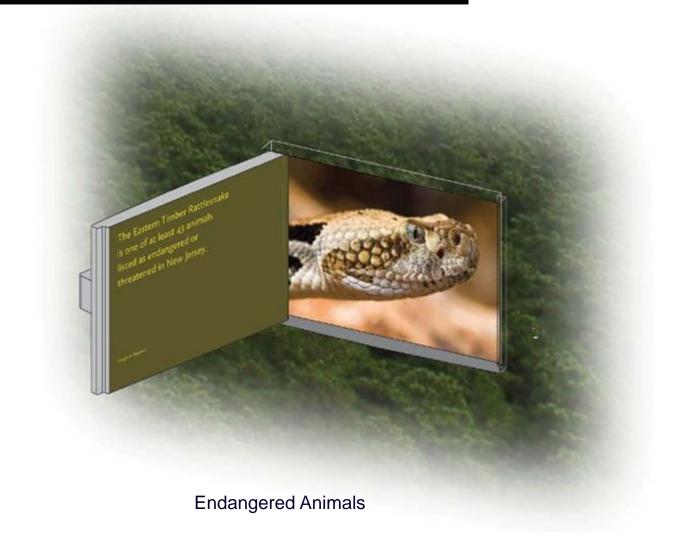
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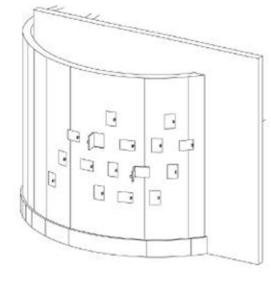
It may look like just pine trees and sand, but investigate a little further and you'll encounter a fascinating natural and cultural landscape. The Pinelands is a vast mosaic of forests, streams, and wetlands, plus farms, villages, and homes—some long abandoned and some modern and vibrant.

We invite you to discover what's beneath the surface.

Hidden Wonders

Eastern Timber Rattlesnake









A Sandy Foundation The unique character of the Pinelands begins underground

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Upland For

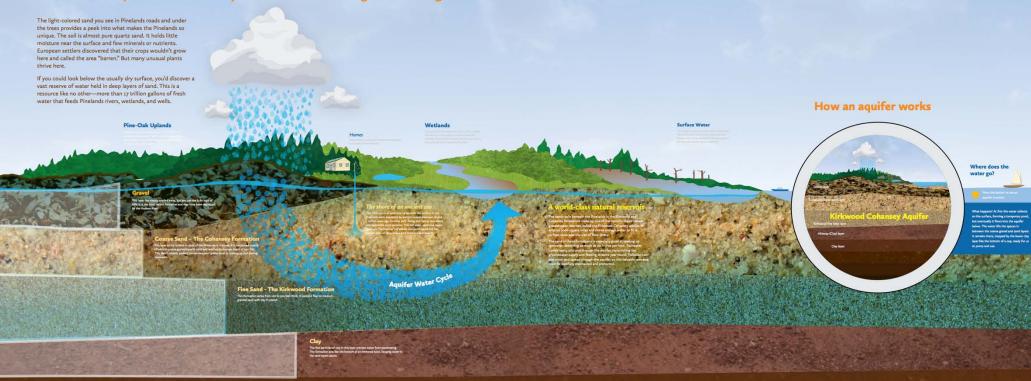
The light-colored sand you use in Products such and under the forest provides a peek into what makes the Products to unique. The such is almost pure querts used, it holds fittle evolutions near the suches and fee estimates or matteres. European settlem document that their orep weaking gow here and called the area "barren." But many unusual pres-tions from. photoe here.

If you could look below the usually dry sortice, you'd decover a watt researce of water held in deep layers of and, Thin 6.8 remotion like no other—more than () tilling galaxy of feah seater that feeds Portlands them, well-well, and wells.

Piece Cale Uplands

2.0 Geology

A Sandy Foundation The unique character of the Pinelands begins underground



Pine-Oak Uplands

Gravel

and a

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This layer has mostly enabled 2 x 27. Inter it is the most regent formation and may have been dependent by the Hudson River

and - The Cohansey Formation

Coarse such as the surface in the of the free free of the free of the free of the free of the surface in the surface of the free of the fr

Fine Sand - The Kirkwo The formation ranks from too to you faret stock graned card with city in places

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Aquifer Wa

How an aquifer works

Kirkwood Cohansey Aquit

Alloway (Clay) layer

Clay layer

Where does the water go?

Press the button to see an aquifer in action

What happens? At first the water collects on the surface, forming a temporary pond, but eventually it flows into the aquifer below. The water fills the spaces in between the coarse gravel and sand layers. It remains there, trapped by the lower clay layer like the bottom of a cup, ready for us to pump and use.



3.0 Uplands

Uplands

Upland Forests Fire shaped these unique woodlands

> Take a sandy-thal into the upland foreits of the Pinelands, and you miter a unique wifermest. Only certain kinds of plants can thrive in the day acide, writing poor fail of the uplands. There alartis can also writing and regular wildlings.

For centuries, whithers have routinery burned. through the Proteology, enviloping in the dominance of pitch pine over the others pines and oaks that accompany it. Pitch pine stands out arrong plants are uposed all and pipel on the List the most aduntant tred in the Rinclands and a fitting symbol of this measurements.

Arteret
Personal statement
Pers

3.0 Uplands

"Stt all seasons there is a peculiar restfulness in these quiet stretches, over which the pines stand as silent sentinels." - Witney Steve













Pitch Pine: The anatomy of fire resistance

 Thick, layered bark resists burning and protects dormant buds.

Dormant buds under the bark quickly sprout needles and branches after a fire. (If fire consumes all the needles, the tree will look normal in just a few years.)

Even if the trunk burns down, shoots grow quickly from the dormant buds in the roots. Roots don't burn in the sandy soil, which holds almost no flammable organic matter. 3 Some pitch pine cones (called serotinous cones) stay tightly closed for many years. They won't open and drop their seeds until the tree is burned or cut down. Almost all the cones on the dwarf pines in the Pine Plains are serotinous.

Delicate seeds only germinate on bare ground cleared by fire. They won't sprout if they fall on a thick mat of dead needles and leaves.





Fire video

Pinelands tores kept the pygm

Eastern Spadefoot

Owls and woodpeckers nest in the hollows of trees. Trees killed by fire are good places to nest With shorter than average wings (for a hawk) the Sharp-shinned Hawk is uniquely adapted for fast forest flying. Warblers, Towhees, and Common Yellow Throats respond to forest fires by doing one of the things they do best: flying away from danger!



Sharp-shinned Hawl





px Turtle

feeds only on inelands savannahs elands shelters one utterflies.

Frequent first in the Price Plans keep the carropy open and the tores storated and small. Shown Crowberry thrites in the open space, so does Price Barres Reed Grass, a stokally user junk that needs first to be successful. Colonies of sum former, tukey securit oneeds and bloom in the light space created by free take hold and bloom in the light space created by free



4.0 Wetlands

Wetlands Habitats brimming with diversity

Visit the wetlands to see some of the Pinelands' most spectacular and unusual sights. These habitats make up more than 380,000 acres, or 35 percent, of the Reserve and provide habitat for most of its rare species. There are insect-eating plants, globally rare Atlantic White Cedars, orchids, and flowers found nowhere else in the world.

Vetlands of different types occur where the groundwater meets the surface, either seasonally or year-round. These swamps, savannas, and vernal ponds prevent flooding and filter runoff before it enters streams rivers, and the underground water supply.

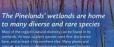


Taming the wild cranberry: an industry takes root



The Pir ds' wetla ds are





















Terrarium

Pine Barrens Treefrog

S. MERCONCERCE

You can hear this tiny, beautiful symbol of the Pinelands calling loudly from its breeding areas around shallow temporary pools in the late spring. Unlike most amphibians, it thrives in acidic environments like the Pinelands' cedar swamps. It's protected in New Jersey because its habitat is so limited. The only other populations are in the Sandhills of the Carolinas and the Florida panhandle.



sting and packaging of the sphagnum moss that grows in the verates a moss press, to the right William Wasiowich harvests



The Pinelands' wetlands are home to many diverse and unique species

Most of the diversity of the Pinelands is found in its wetlands. At least 24 plant species were first discovered here, and at least 3 live nowhere else. Many plants and animals are listed as threatened or endangered because so much of these habitats has been lost to development.

Rare Plants: 0 A surprising d Pinelarids, By able to grow



Frankling Basera



The Neithern Water focke is the most common stuke in New Jersey. Many mammal species partol the wetlands with webbed feet and wings. Big brows Bats and Little Brown Bats scoop up the abundant monoultons, files, and dragon files that take to the air in the clear sites above the wetlands.











5.0 Surface Waters

Surface Waters One of the Pinelands' greatest resources

One of the best ways to see the Pinelands is by canoeing one of its many rivers and streams. These slow-moving waterways mostly start in the Pinelands and flow out, feeding the marshes and bays of southern New Jersey.

Rare species survive in acid waters

Pinelands rivers attracted settlers to this area. They built dams and waterwheels to operate mills, forges, and furnaces; transported natural resources and products on Pinelands waterways; and established towns and villages near rivers and industrial sites.

What makes the water so dark?

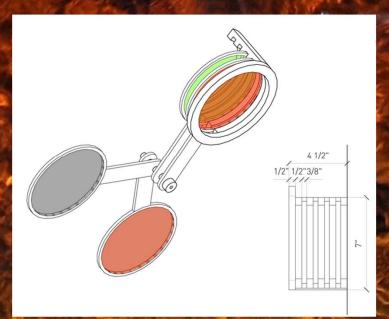


Cedar water: dark but sweet

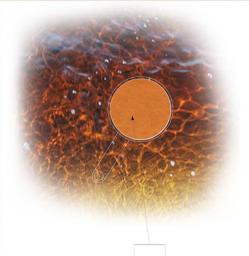




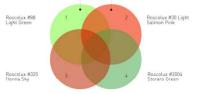
Cedar Water Interactive What makes the water brown?



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6.0 Pinelands Resources

