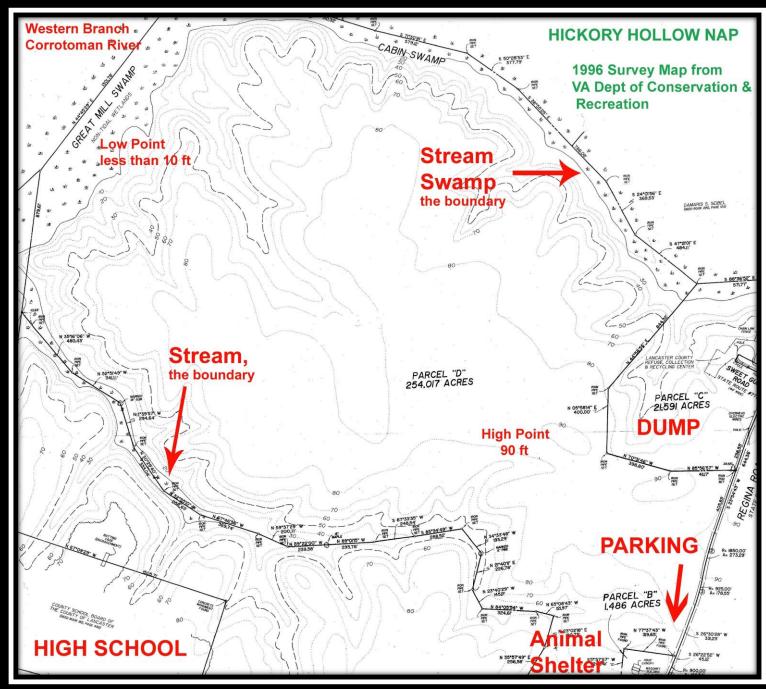


HICKORY HOLLOW VIRGINIA NATURAL AREA PRESERVE

Located on Regina Road (VA 604), off Route 3 just east of Lancaster.

- Owned by NN Audubon Society
- Managed by VA DCR
- County owned from 1887 to 2000
- Audubon purchased it in 2000 to protect the land in perpetuity for rare ecological communities





Hickory Hollow Trail Map

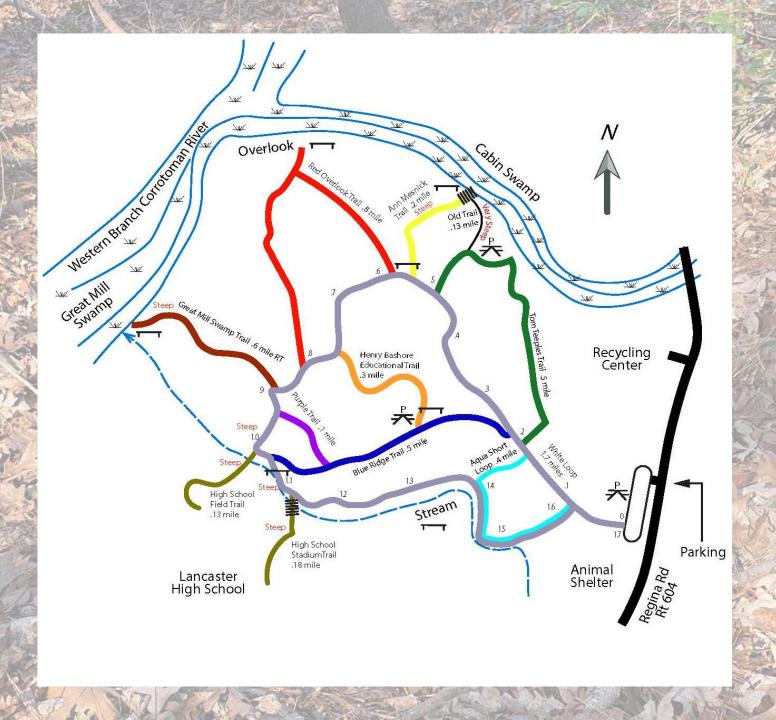
As you can see on the map, there are many trails through Hickory Hollow, all of which are marked with painted marks (blazes) on trees or posts. Trail colors correspond to colors on this map with the exception of the Grey colored trail on this map; it is actually marked as the White Trail in the Preserve.



Post Blaze



Tree Blaze





Cabin Swamp in December



Cabin Swamp in late May

Cabin Swamp - A Rare Botanical Treasure

- A very rare coastal plain seepage swamp containing many rare plants including rare mountain disjuncts (species normally found in high elevation mountains of SW VA).
- The swamp lies at the bottom of several ravines that have cut down into marine seashell deposits that were formed millions of years ago when the Coastal Plain was covered by the ocean. The dissolving of the shell deposits has changed the soil and water chemistry of this small swamp area (22 acres) creating a habitat found in few other places on earth. This globally rare plant community contains plants that are unusual or rare in Virginia, yet it supports a high level of biological diversity.

An astonishing 500 species of plants have been reported from Cabin Swamp, as well as 125 species of birds.

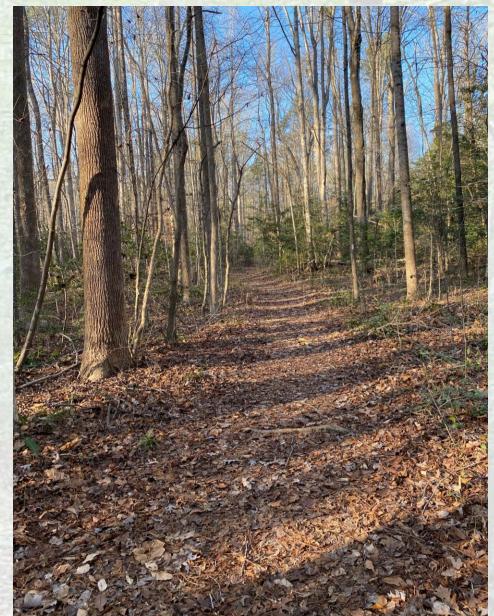
- Several rare Dragonflies and Damselflies depend on forested seeps like Cabin Swamp. as well as several early woodland butterflies.
- Rare mountain disjuncts include: Marsh Marigolds, American False-hellebore, globally rare Kentucky Lady Slipper orchids. Other unusual plants include Skunk Cabbage, Cinnamon, Royal Ferns, and many sedges. And of course, Skunk Cabbages thrive in the saturated soils of the swamp.

Acidic Mixed Oak - Hickory Forest

- Hardwood forest of mostly Oaks and Hickories. These tall deciduous trees make up the canopy layer of the forest and lose their leaves in fall.
- White, Northern Red, Black Oak, & Southern Red Oak are common in this coastal plain forest as is the Mockernut Hickory.
- In moister soils along streams and swamps, Beeches, Red Maples, Swamp Chestnut Oaks, Green Ashes and Tulip Poplars are common.
- Take a moment to admire the various types of bark and branching structure that light up the winter forest.







White Oak Northern Red Oak Mockernut Hickory



Tulip Poplar, Liriodendron tulipifera



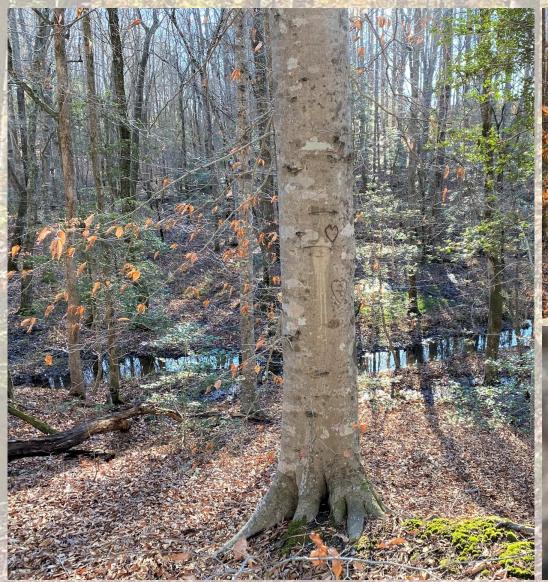
- Tall, straight columnar trunks,
- often the tallest tree in East
- Dry scaly cone-like fruit make good winter ID characters
- Prefers moist, rich soils of lower slopes
- Host to Tiger & Spicebush
 Swallowtails, Tulip Tree Silk Moth
- Nectar of attracts Hummingbirds
 & bees
- Squirrels and deer eat seeds







American Beech, Fagus grandifolia







Smooth gray, elephanthide bark

Dead leaves hang on saplings/lower branches

Buds are long & tapered lengthening towards spring – good ID

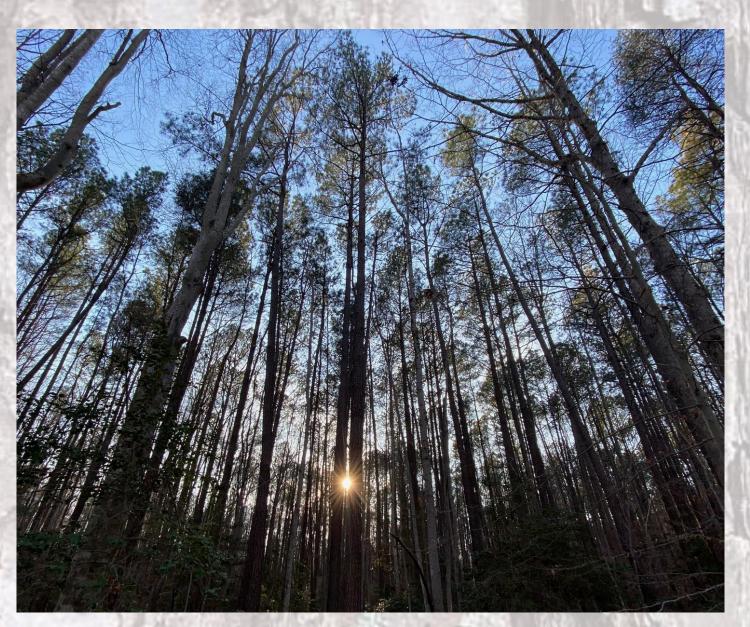
Extensive surface roots

Beech nuts are important wildlife food source

Loblolly Pines

- Loblollies are remnants of earlier forests
- Young are not shade tolerant and will be replaced by more shade-tolerant trees over time
- Rugged bark help protect loblollies from fires
- Long, lustrous needles in bundles of three





Ironwood, Musclewood, Blue Beech, Carpinus caroliniana



- Smooth, gray sinewy bark
- Often multi-trunked, hard dense wood
- Common understory tree
- In the Birch family flowers in catkins
- Larval host to Tiger Swallowtail & Redspotted Purple. Bobwhite, Yellowrumped Warblers, Wild Turkeys and other birds & mammals feed on catkins and seeds.

American Holly, Ilex opaca







- Very common understory tree in coastal plain forests
- Evergreen, spiny leaves
- Important winter food for songbirds e.g. robins, cedar waxwings.
- Nectar rich flowers in May important to bees

Mountain Laurel, Kalmia latifolia





- Forms dense thickets
- To 25' tall
- Acidic soils on north facing slopes
- Also in Rare Oak-Beech-Kalmia Community above Cabin Swamp
- Dense gnarled branches







Cranefly Orchids

- Common woodland orchid found in moist forests
- Single evergreen leaf emerges in fall with raised purplish bumps & purple underneath.
- Green all winter, goes dormant in spring.
- Summer stems emerge with tiny greenish-brown flowers resembling "Craneflies"
- Pollinated by moths at night.

Downy Rattlesnake Plantain, Goodyera pubescens





- Another common orchid
- Evergreen leaves look like 'snakeskin'
- Ground-hugging basal rosette
- A fuzzy flowering stem emerges in summer, densely packed with white flowers.
- Pollinated by native bumblebees & other bees



Christmas Fern

- Very common evergreen fern grows in clumps
- Extremely adaptable to dry or moist soils occurs in a variety of sites
- Evergreen fronds leathery & each leaflet has a small lobe or toe at its base, "Santa's boot" ... See arrow



The stunning new fronds (fiddleheads) are covered in silky hairs and emerge in March.

Running Cedar







- Clubmosses primitive group of plants from before the age of the dinosaurs when they grew to tree-like proportions.
- They have vascular systems, stems and leaves.
- They form large colonies of evergreen groundcover with upright shoots with fan-like branches on long trailing stems.
- Club-like structures hold spores on separate forked shoots release clouds of yellow spores in fall.
- Common in dry, acid forests, very slow-growing; a large colony may be decades old and should not be collected or moved.

Princess Pine, Tree Clubmoss, Dendrolycopodium obscurum





- Another closely related Clubmoss
- Resembles a small "pine tree" with upright stems and whorls of branchlets with fine needle-like leaves
- Spreads by trailing stems and rhizomes to create colonies
- In late summer, single club-like structures at tips of upper branches releases clouds of tiny yellow spores
- Indicator species for very moist, acidic, nutrient poor soils.

Partridge-berry, Mitchella repens



- Creeping perennial groundcover with opposite, evergreen leaves with light midvein
- Creeping stems root at nodes where they touch the ground creating small colonies
- Paired, tubular white flowers form a single red berry that often persists through winter
- Fruits are relished by songbirds, turkey, quail, & small mammals

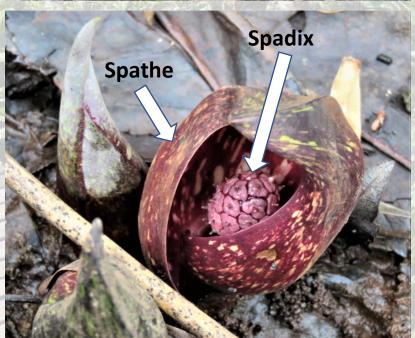




Virginia Heartleaf, Heartleaf Ginger, or 'Little Brown Jugs'

- Stunning evergreen perennial with heart-shaped leaves with pale mottling
- Slow growing but eventually forms dense clumps in acidic, moist forests on ravine slopes, along streams
- Crushed leaves and creeping roots smell like ginger
- Early spring flowers often hidden under foliage & leaf litter
- Flowers are "little brown jugs", bell-shaped with 3 fleshy lobes
- Pollinated by tiny flies and insects and dispersed by ants

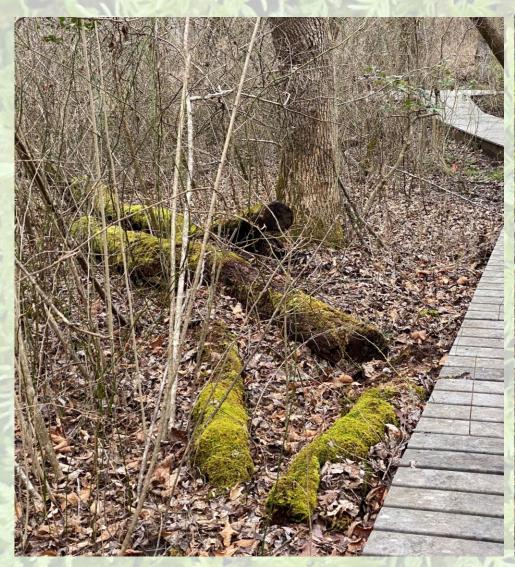




Skunk Cabbage

- Grows in rich swamps and wetlands with saturated soils like Cabin Swamp
- Earliest wildflower to bloom; usually in bloom by January 1
- Look closely at soil level along boardwalk in leaf litter.
- Fleshy hood is dark purplish-burgundy color with yellowish spots/mottling
- Emits skunky odor to attract its pollinators carrion and flesh flies
- Able to generate enough heat to raise temperature up to 70 degrees, even when snow is on the ground.
- Huge contractile roots pull plants down a few centimeters a year, keeping flowers at ground level
- Lush cabbage-like leaves emerge in spring, then die back and go dormant by late summer

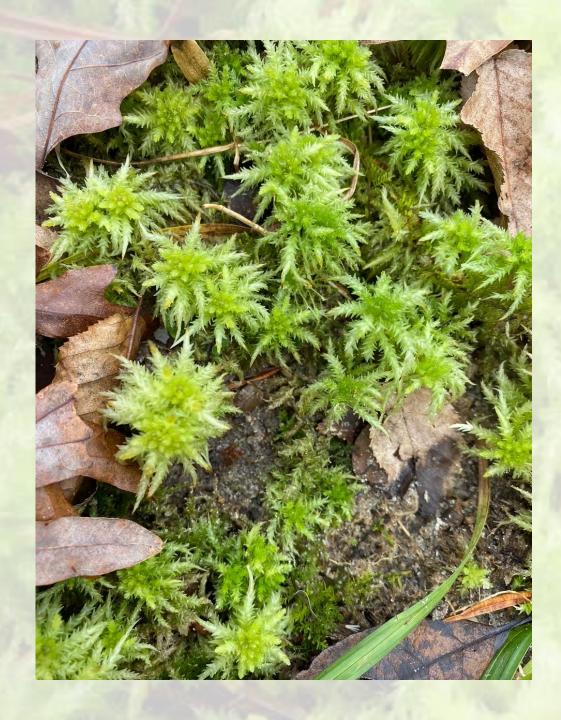
Mosses







- Mosses are an ancient group of plants that diverged from algae over 400 million years ago
- They have no vascular system or true roots; leaves soak up water directly through thin cell walls
- Also require moisture to reproduce, they are often found in moist, shady habitats
- Reproduce by spores held in stalked capsules
- Provide a home & nest sites for many tiny organisms ranging from arthropods to water bears & insect eggs



Sphagnum Moss, Sphagnum sp.

- Found in bogs, swamps and other wet, shady habitats
- Central upright stem in tightly arranged clusters
- Many branches crowded at top creating a "mop-head"
- Many, many species often needing microscope to ID
- Called habitat manipulators, creating hummocks in swamps supporting numerous species of sedges, ferns, orchids, microorganisms, and salamanders



Delicate Fernleaf Moss, Thiudium delicatulum

- Aptly named, with twice or thrice divided fern-like leaves
- Common fern of moist soils, rotting logs & tree bases
- Distinguished by yellow-green leaves & long stems, and fern-like foliage
- Forms extensive mats
- A favored habitat & nest sites of several species of salamanders



Common Tree Skirt Moss, Anomodon attenuata





- Covers tree bases, often on north side
- Dull green with tiny bumps on leaves
- Long stringy structure, curling when dry, bushy with flat, tapered tips when wet

Shingle Moss, Neckera pennata



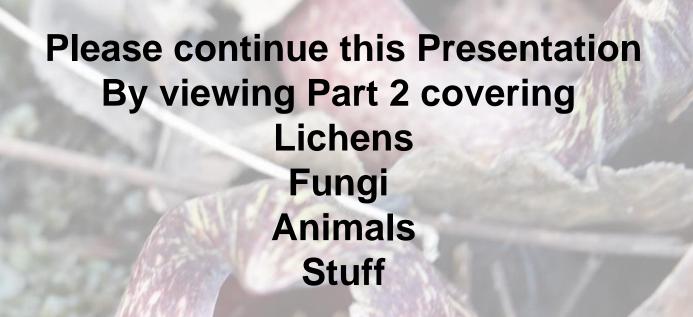


- Moss with cosmopolitan distribution but uncommon in our area.
- especially on old hardwoods in moist woods.
- Flat, wiry branches hang free and stand out from trunks
- Tiny leaves noticeably wavy
- Occurs mostly on ironwoods in Cabin Swamp.
- Sometimes considered an indicator of old growth forests

Snakeskin Liverwort, Conocephalum selebrum



- A Rarely noticed plant
- Like Mosses, Liverworts are ancient plants
- They have no vascular system, stems or true leaves and reproduce by spores
- Flat ribbon-like plants are only one-cell layer thick.
- Snakeskin Liverwort is aptly named and can be seen from the Boardwalk at Cabin Swamp at the base of trees in wet soils.
- Look carefully; beauty is in the details!



Background Photo is the flower of the Skunk Cabbage on 1-8-2021