

I N S I D E T H E P I N E L A N D S

APRIL/MAY 2005

A Report by the Pinelands Preservation Alliance

VOLUME 12, NUMBER 4

A CENTURY OF STEWARDSHIP: BASS RIVER STATE FOREST TURNS 100



Lake Absegami, a 67 acre lake created in the 1930s, at Bass River State Forest

by Dana Loschiavo, Communications Coordinator, NJDEP

A century ago Governor Edward Stokes established the Forest Park Reservation Commission to acquire and restore depleted woodlands, thereby protecting watersheds and wildlife in New Jersey. In November 1905, the state purchased 597 acres and Bass River became the first state forest.

In honor of this milestone of stewardship, the Department of Environmental Protection (DEP) is celebrating the centennial of the establishment of New Jersey's state forests marking the 100th anniversary of Bass River State Forest. The celebration kicks off in April with a series of monthly events that continue

through the fall.

Today the DEP's Division of Parks and Forestry administers more state landholdings than any other agency in New Jersey. These include 39 state parks, 11 forests, 44 natural areas, three recreation areas and more than 50 historic sites and districts covering nearly 400,000 acres. Since the 1905 purchase, Bass River State Forest itself has grown to more than 26,000 acres nestled within the Pinelands of Burlington and Ocean counties.

By 1860, the virgin forests of New Jersey had largely vanished, having been repeatedly harvested for charcoal to fuel the iron industry and for a wide variety of wood products such as firewood, shingles, fencing and railroad ties.

When the Forest Park Reservation Commission first began acquiring land for Bass River State Forest, it was referred to as a reserve, focusing on forest research and regeneration. Samuel Budd Allen of New Gretna was placed in charge of the reserve as caretaker.

In its infancy the Bass River Reserve was mostly fire-scorched woodlands, covered with a new growth of young pitch pine, oak sprouts, cedar swamp and scrub oak. A tree nursery encompassing one-sixteenth of an acre was created within the reserve in 1907. The first planting comprised 24,300 seeds of Jack Pine, Western Yellow Pine, Scotch Pine and Locust. The Western Yellow Pine failed, while the Jack Pine prospered. A second nursery was established in 1908 on 25 additional acres.

By 1948, more than four million trees had been planted in a 7000 acre area, more than half of which were planted by the Civilian Conservation Corps (CCC).

The CCC was a program initiated by President Franklin D. Roosevelt during the Great Depression. It provided jobs to more than 500,000 unemployed men who worked on a variety of conservation projects. From 1933 to 1942 hundreds of men from CCC companies 225 and 2201 were stationed at Bass River, where they shaped the landscape of the

continued on page three



With a "Pinelands Tourism Summit" last January, a new effort to promote tourism in the Pinelands has been launched through the efforts of Janet Jackson Gould of the Woodford Cedar Run Wildlife Refuge in Medford, the South Jersey Tourism Corporation, Burlington County and others. More tourism raises important concerns for anyone who cares about the Pinelands: will this mean more trash, crowded trails and streams, more development, more illegal off-road vehicle damage, more pilfering of objects from archaeological sites?

My view is that conservationists need to be integrally involved in this effort, for two basic reasons.

First, we can make sure tourism promotes preservation and is managed responsibly only if we are deeply involved in the effort. We can help government agencies and businesses frame their marketing and programming to support conservation. After all, no one will come to the Pinelands to see our version of sprawl—they can find plenty of that in their own neighborhoods. We can try to have trained naturalists on every new bus tour or Elderhostel program created for the Pinelands. The renegades are already out there abusing the Pinelands,

but we have a chance to reach the vast majority of visitors who want to see and enjoy, and also to protect. This is our chance to infuse all forms of organized tourism with the conservation message.

Second, I believe tourism is necessary to save what is left of the Pine Barrens and coastal habitats over the long run. As New Jersey continues to develop towards build-out, and there are fewer and fewer fields and forests to convert to houses and malls, the pressure to break down Pinelands barriers will only grow. The politicians who will hold the Pinelands' survival in their hands need to know there is a broad, deep and vocal electorate that demands they defend the Pinelands. And the best way to build that constituency is to show people what a wonderful treasure they have here, and how they can enjoy the Pinelands without destroying it.

I participated in the Pinelands Tourism Summit, and my role was to close the meeting with a presentation on the link between preservation and tourism in the Pinelands. So far, I have found everyone involved in the new tourism effort agrees with this protective philosophy. I believe PPA should support and participate in this effort, despite the risks that more tourism could bring.

PPA WISH LIST

For the Office

Printer Plotter•Digital Video Camera
Folding Chairs

For the Buildings & Grounds

Garden Rakes•Leaf Rakes
Forks•Hoes•Shovels•Spades
Wheelbarrows•Gas Chainsaw
Cordless Drill (12V or higher)
Vermont/Gardening Carts
Pruning Shears/Saws
Trowels•Claws•Weeders
Cultivators•Transplanters
Grass Clippers•Sledge Hammers
Rain Gauges•Watering Cans
Edgers•Loppers•Pliers
Wood Saws•Levels•Wood
Clamps•Wrenches•Hammers
Toolboxes•Workbenches
Rototiller•Metal Trash Cans
Contact Mike Pippin for details

EARTH DAY CLEAN-UP

The Forked River Mountain Coalition, in cooperation with the Ocean County Parks Department and the PPA, will conduct a clean-up of the Forked River Mountain Area for Earth Day.

Where: Lacey Municipal Building
Lacey Road, Forked River

When: Sunday, April 17

Arrive: 8:30am - 9:00am

Return: 12:30pm - 1:00pm

Bags and gloves will be supplied!

Individuals and groups are asked to pre-register. 609-971-9435.

INSIDE THE PINELANDS

*Published six times a year by the
PINELANDS PRESERVATION ALLIANCE*

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Distributed to:

PPA members and volunteers, state legislators, Pinelands municipalities, elected officials, planning boards, and selected officials.

Our newsletter is available online at:

www.pinelandsalliance.org

Printed on recycled paper (30% post-consumer waste)

forest and developed the recreational features that visitors enjoy today.

In addition to planting 4,500 acres of forest, the young men constructed cabins, shelters, lean-tos, roads, bridges and a fire tower. One of their most significant accomplishments was the creation of 67-acre Lake Absegami, created by damming two streams flowing through the forest.

The CCC also helped battle some of the fierce forest fires that plagued the region. In the 1930s, several fires nearly decimated the entire forest. Three CCC workers lost their lives battling a fire in 1936 that lasted four days and burned more than 90 square miles. A monument to the workers still stands today on East Greenbush Road. An additional plaque was added to memorialize four local volunteer fire fighters who died while fighting a major fire in the forest in 1977. CCC activities in the forest ceased at the commencement of World War II.

Bass River State Forest has become a popular destination for many recreational activities. At Lake Absegami, visitors enjoy swimming, boating and fishing. The camping area has grown to 176 campsites and more than a dozen cabins, shelters and lean-tos.

The forest's miles of sand and gravel roads are open year-round for hiking, mountain biking and horseback riding. A 9-mile stretch of the Batona Trail links Bass River with Wharton and Brendan T. Byrne State Forests in the Pinelands.

Bass River also contains two natural areas that were designated to preserve the native plants, animals and ecosystems of the forest. The 3,830-acre West

Pine Plains Natural Area supports a globally rare dwarf pine plain, a stunted forest ecosystem of pine and oak trees that reach a height of only four feet at maturity. The area is also home to numerous rare plants and animals, including several species of moths and butterflies and the Broom Crowberry, a state endangered plant.

A 1-mile nature trail loops through the 28-acre Absegami Natural Area, which includes a wetland forest where Atlantic white cedars share the canopy with red maples and magnolias. Absegami also supports the federally threatened and state endangered wetland plant Swamp Pink.

Bass River is also participating in a statewide initiative to re-establish the Atlantic White Cedar, which has been a resource in decline. A recovery plan, developed in 1998, identifies 25 sites for restoration in the forest. To date, approximately half of these sites are successfully progressing through the restoration process. Additional plans are being developed for the management of other types of forest cover.

Today, the Division of Parks and Forestry continues its long legacy of stewardship. Men and women work at Bass River and throughout the state to protect forest resources, improve water quality, restore and preserve wildlife habitat and enhance recreational opportunities. A comprehensive Forest Resource Management Plan guides their work.

For more information about Bass River State Forest and its year-long centennial celebration, call (609) 296-1114 or visit www.njparksandforests.org

FAIRS & FESTIVALS

APRIL 23, 10 AM - 4 PM
WASHINGTON TOWNSHIP
EARTH DAY CELEBRATION
WASHINGTON LAKE PARK
TURNERSVILLE

APRIL 24, 10 AM - 4 PM
ATLANTIC COUNTY UTILITIES
AUTHORITY EARTH DAY 2005

HANNEMAN ENVIRONMENTAL PARK
EGG HARBOR TOWNSHIP

APRIL 24, 10 AM - 4 PM
EARTH DAY CELEBRATION
BATSTO VILLAGE

MAY 1, NOON - 4 PM
BURLINGTON COUNTY COLLEGE
FUN FEST

PEMBERTON CAMPUS

MAY 7, 10 AM - 4 PM
MERCER COUNTY EARTH DAY
SOVEREIGN BANK ARENA, TRENTON

MAY 16, 10 AM - 4 PM
OUTDOOR ADVENTURE EXPO
TURKEY SWAMP PARK, FREEHOLD

JUNE 4 & 5, 10 AM - 5 PM
DELAWARE BAY DAYS
HIGH STREET, BIVALVE (PORT NORRIS)

JUNE 12, 10 AM - 4 PM
BURLINGTON COUNTY EARTH FAIR
SMITHVILLE PARK, EASTAMPTON

CORRECTION

In the "Hits and Misses" article in the February/March 2005 edition of *Inside the Pinelands*, the Heritage Minerals segment referred to allowing "construction of up to 1,450 housing units on 900 acres of land in Manchester Township." The actual number of housing units allowed is 2,450.



The foundation of the aquatic, wetland, and related habitats of New Jersey's Pinelands, is the underlying Kirkwood-Cohansey aquifer system, both literally and figuratively. The U.S. Geological Survey (USGS) along with the New Jersey Pinelands Commission, Rutgers University, U.S. Fish and Wildlife Service, and New Jersey Department of Environmental Protection is conducting an intensive study of this aquifer and the related Pinelands ecosystems. A primary component of the study being conducted by USGS is an investigation of the hydrologic-system characteristics that affect ecologically important hydrologic regimes and the relations among critical components of the hydrologic budget. To accomplish this goal, three basins will be intensively studied: McDonalds Branch, Albertson Brook, and Morses Mill Stream (*fig. 1*). These basins exhibit a range of hydrologic characteristics that represent the entire Pinelands area, thus the findings are transferable to the entire area.

The intensive hydrologic study has several key components that will be undertaken in the three basins. These are a determination of the hydrogeologic framework, the measurement of current hydrologic conditions, and the determination of an overall hydrologic budget. Using these components, a detailed understanding of the interaction between the ground-water system and wetlands will be developed. A ground-water flow model of each of the basins will then be developed and used to predict how possible changes in regional and local water use, and other related aspects will affect the hydrologic system. This information will be integrated with the ecological components of the overall study to provide a comprehensive understanding of the link between Pinelands hydrology and ecosystems.

Hydrogeologic framework

A hydrogeologic framework is a conceptual "picture" of subsurface materials of an area, including their composition, orientation and hydraulic characteristics. Development of a hydrogeologic framework in an area such as the Pinelands is accomplished through analysis of drill-core and -cutting logs, borehole geophysical logs of electrical resistivity and natural gamma radiation, and surface geophysical measurements of ground-penetrating radar.

Current hydrologic conditions and water budget

Hydrologic conditions in the intensive-study basins will be closely monitored during the study. These measurements will facilitate further analysis and provide a documentation of current conditions. A monitoring network based on the test wells has been developed in each of the intensive study basins for hydrologic purposes. A total of 140 wells and well points will be installed for this study.



Kirkwood-Cohansey basin study areas

Stream gaging stations have been established at a downstream location in each of the intensive-study basins. These sites provide a measure of the

amount of water leaving each basin. Additional streamflow measurements will be made within each basin. Staff gauges have been constructed at key locations, for example in close proximity to ecological reference sites, to facilitate measurement.

A series of "seepage run" measurements will be made to quantify ground-water discharge to the streams (base flow). A seepage run is a series of flow measurements made on a stream in a synoptic manner.

Evapotranspiration (ET) is a hydrologic process that removes roughly half of the precipitation that falls in a typical Pinelands basin. Because of the hydrologic significance of the process, it will be measured directly to determine its variability. The measurements are difficult and complicated to make, so measurements will be attempted at only two locations. These data, together with those available from National Weather Service and Rutgers University data networks, will be used to determine precipitation input to the study basins. The compilation of the ground-water level, streamflow, ET, precipitation, and other related data will allow for the development of a detailed water budget for each of the intensive-study basins. These budgets will provide the basis for additional quantitative analysis of the hydrologic system.

Aquifer-Wetland-Stream interaction

An assessment of the relative position of streams and wetlands within the hydrogeologic framework together with an analysis of ground-water levels (and changes) relative to wetland levels and streamflow, and an analysis of the "seepage run" data, is the first of a two-part approach to the analysis of the interaction. This first approach relies on data about the ambient conditions. The second part of the approach

continued on next page

is to perform an "aquifer test" in each of the three intensive-study basins. These tests involving the short-term pumping of a well will stress the ground-water levels. Carefully collected data will indicate the streamflow and wetland water-level response to this stress, thus allowing for a quantification of the hydraulic and physical conditions controlling the interaction.

Predictive capabilities: hydrologic models

A digital, 3-dimensional ground-water flow model will be developed covering each of the three intensive-study basins. The flow model will be constructed and calibrated using the data collected during the study. Additionally, scenarios representing possible future conditions, such as increases in nearby ground-water pumpage or changes in precipitation, can be tested to predict the likely effects on Pinelands hydrology. This information will be used in a Pinelands-wide evaluation of ecology and hydrology that will be performed by Rutgers University.

Database

The hydrologic and ecological data collected by this study will be organized and stored in a database to maximize the benefit by insuring the ease of subsequent use of the data. This database can be used by other scientists, water managers and planners.

Note: This article originally appeared in the Fall 2004 issue of *New Jersey Flows*, the newsletter of the New Jersey Water Resources Research Institute. To learn more about other research being conducted within the New Jersey Pinelands, please visit <http://njwrrri.rutgers.edu/newsletters>

WHOLE FOODS PROMOTES EARTH DAY!

Pinelands Preservation Alliance is a proud member of Earth Share of New Jersey. By visiting a Whole Foods Market during the month of April, customers will be able to make a donation to Earth Share at the registers. Whole Foods Market is proud to support Earth Share, the environmental workplace giving alliance, and all of its members, and we thank them for helping us promote our organization's work.

The Whole Foods Market motto, "Whole Foods, Whole People, Whole Planet"™ captures the company's mission to find success in customer satisfaction and wellness, employee excellence and happiness, enhanced shareholder value, community support and environmental improvement.

Earth Share was founded by and represents the most respected environmental and conservation organizations in America. Donations to Earth Share of New Jersey are distributed to local non-profit organizations working tirelessly to help protect and preserve public health and our air, water, land and wildlife.

Whole Foods Markets in Connecticut, New Jersey, and New York are all participating in this event. The New Jersey store locations include Edgewater, Madison, Millburn, Montclair and Ridgewood. Additionally, the Princeton and Marlton locations will be hosting a "5% Day" in late April. On this day, 5% of all sales will be donated to Earth Share of New Jersey. The date is TBA.

SPECIAL PINELANDS PLANTS COURSE

Wayne Ferren and William Olson are the instructors for the second Special Pinelands Plants Course. The course consists of 12 full-day Saturday sessions beginning **April 16** and ending **October 1**. Cost is \$350. With workshops, lectures and fieldwork, this promises to be a remarkable survey of the rare flora of the Pinelands. Class is restricted to 20 students. Call Russell at PPA (ext. 23).

PINELANDS COMMISSION MEETINGS

Friday, April 15, 9:30am

Friday, May 13, 9:30am

OPEN TO THE PUBLIC

CALL (609) 894-7300 FOR

INFORMATION

BUMPER STICKER CONTEST

Submit your idea for the new Pinelands Bumper Sticker.

A "Special Prize" will be awarded to the winning entry.

Please see our web site for details:

www.pinelandsalliance.org

STOP AND SMELL THE PINELANDS GRASSES

by Russell Juelg



It's undeniable. One of the plant families towers over the rest in terms of worldwide economic and ecological importance. Think of corn, rice, wheat, oats, sorghum, bamboo, sugar cane plantations, natural savannas, and all the species used for lawns and grazing.

Right here in the Pinelands, considering everything from turf farms to *Spartina*-dominated salt marshes, the role of grasses is enormous. From the tall, statuesque Plume Grass of the wetlands to the graceful, but tenacious Little Bluestem of the uplands, grasses help make the Pinelands what it is. They help us interpret local vegetation communities, and they provide understated, pervasive beauty.

It follows that Pinelands naturalists want to put names to the grasses and delve into their natural histories. Scores of them are immediately recognizable: Switchgrass, Indian Grass, Purple Love Grass, and Wild Rice, for example. You can look them up in various resources, confirm your ID, and learn about them and their communities.



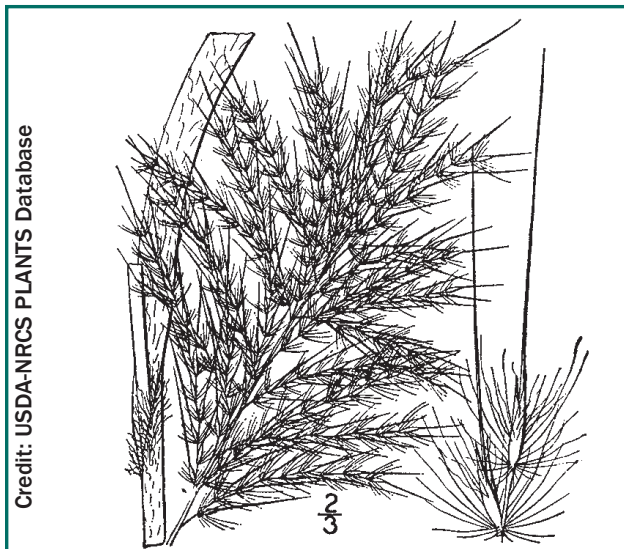
Sweet Vernal Grass

Others require more careful study. One begins to wish there were a popular guide to local grasses that might work like Peterson's or Newcomb's wild-

flower guides, but it doesn't exist.

Brown's *Grasses, An Identification Guide*, and Knobel's *Field Guide to the Grasses, Sedges and Rushes* are wonderfully helpful, but not at all comprehensive for the Pinelands. Pohl's *How to Know the Grasses* is another great tool, and an excellent primer, but it surveys the entire United States, leaving the local naturalist floundering in the wide-flung bounty, while omitting many of our cherished local species (e.g., Pine Barrens Reed-grass and Pine Barrens Smoke-grass).

Comprehensive references such as Gleason and Cronquist's *Manual of Vascular Plants* and Fernald's 8th edition of *Gray's Manual of Botany* are geared for the pros. They include just about everything in the entire north-eastern U.S., so you often have to sort through a long list to find the south Jersey species, and they demand familiarity with arcane botanical terminology.



Plume Grass

Hitchcock & Chase's classic *Manual of the Grasses* (1950) requires the same familiarity and, like Pohl's book, it covers the whole U.S. Volume 25 of the *Flora of North America*—a recent treasure—is an up-to-date version of what is covered in just part of Hitchcock & Chase's *Manual*.

There's no single popular reference that summarizes all the grasses of the Pinelands, and no quick and easy way to learn the technical terminology. An invaluable resource though, is Witmer Stone's *Plants of Southern New Jersey*

(1911). Stone's key to the grasses (p. 174) invites us to begin sorting out about 180 south Jersey species by smelling them. The key begins,

a. Sweet scented, odor persisting after drying.



Little Bluestem

It then leads to the only two species having this quality: Sweet Vernal Grass (a widespread introduced species) and Holy Grass (a coastal plant).

I asked Ted Gordon about this peculiar approach, and he merely commented, "Good luck using a character like that on herbarium material." Even so, when I mow my weedy backyard in the spring, I identify Sweet Vernal Grass partly by its wonderful aroma.

As you work through Stone's key, and read his brief treatments, you are rewarded with hundreds of insights into the habitats, appearance, and distribution of grasses of the Pinelands. Stone's old book has one significant drawback: the names are frequently obsolete. But this can often be remedied by plugging Stone's species name into an on-line resource, such as the USDA Plants database.

As spring arrives in the Pinelands, we have unlimited opportunities to look deeper into the diversity of life here, and the grasses are prime examples of oft-overlooked, but critically important components of the flora. Along with the trees, shrubs, wildflowers, vines, ferns, fern-allies, sedges, rushes, mosses, lichens, algae, and fungi, they offer to enrich our experience here, if only we take the time to sniff them out.

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PINELANDS CALENDAR OF EVENTS

April & May 2005

NOTE: Names, addresses, and phone numbers are provided here for frequently mentioned event sponsors. Please contact the sponsor of the event for full information and details of the event.

Cape May Bird Observatory (CMBO), 600 Rt. 47 North, Cape May Court. House, 609-861-0700, x-11, www.nj Audubon.org

Outdoor Club of South Jersey (OCSJ). Call leaders to confirm trip. www.ocsj.org

Pinelands Preservation Alliance (PPA). 17 Pemberton Rd., Southampton. 609-859-8860. www.pinelandsalliance.org. 10% discount on Pinelands Adventures programs to PPA members. Pre-registration required for all PPA programs.

South Jersey Canoe Club (SJCC). <http://www.geocities.com/southjerseycanoeclub>, Email: southjerseycanoeclub@yahoo.com

Wells Mills County Park (WMCP). 905 Wells Mills Road, Waretown. 609 971-3085.

Whitesbog (W). All events meet at the Whitesbog General Store. Historic Whitesbog, mile marker 13, Rt. 530, Pemberton Township. 609-893-4646, www.whitesbog.org.

Wednesdays, April 13, 20, 27

Birds of Peaslee WMA

Journey to a hotspot for migrants and unusual breeding birds: Yellow-throated Vireo, Northern Parula, Scarlet Tanager, Wild Turkey, and many others. Meet at Belleplain State Forest Field Office, just off Rt. 550. 7:30 - 10:30am. \$10 (\$6 Cape May Bird Observatory / NJ Audubon Society member). **CMBO**.

Saturday, April 9

Canoe the Nescochague River.

Meet at Rt. 206 & entrance to Paradise Lake Campground, 4 miles south of Lake Atsion. meet at 9am. Contact: Dick Parsells, (856) 881-2846. **OCSJ**

Sunday, April 17

Red, White and Blueberries

Visit historic Whitesbog Village. See "Voices of Whitesbog," first-hand video accounts of life in the village, then take a walking tour of the mid-19th and early 20th Century buildings. Also shop for local goods and crafts in the general store. Adults only. Meet at Woodford Cedar Run Wildlife Refuge. Transportation provided. Call (856) 983-3329, Opt. #1 for reservations (required). \$35/person. 12:30 - 4:30 pm. **WCR**.

Friday, April 29

Jersey Devil Hunt

We start with an old-fashioned

campfire (bring hot dogs & marshmallows!) We calm our nerves with some old-time music. Then, with a little ghostly moonlight, we search the woods, cautiously, for that most infamous denizen of the Pine Barrens. Meet at Batona Camp. 7 - 10pm. \$10. **PPA**.

Saturday, April 30

Arbor Day Guided Walk & Forestry Celebration

Kick-off a yearlong celebration of the centennial of Bass River State Forest, New Jersey's first state forest, with tree planting, plantation history and Atlantic white cedar restoration hikes. Meet at forest office; bring work gloves for planting. 10am - 3pm. Bass River State Forest. Call (609) 296-1114 for more information.

Saturday, May 7

Ghost Towns of the Pines

Explore some of these historic sites with Barbara Solem, author of *The Forks and Ghost Towns and Other Quirky Places in the NJ Pine Barrens*. Meet at Woodford Cedar Run Wildlife Refuge for coffee, then begin your adventure. Bring a brown bag lunch and water and enjoy a scenic picnic along the way. Adults only. \$35 per person. Call (856) 983-3329, Opt. # 1 for information and reservations (required). 9 am - 4 pm. **WCR**.

Canoe the Batsto River

Meet at 9am at Atsion Ranger station on Rt. 206. Please arrive early to unload boat and gear. No rentals. Contact: Howard Molisee, 856 691-8609. **SJCC**.

Saturday, May 7 (rain date: Sunday, May 8)

Hessel's Hairstreaks, Elfins, and Pigmy Pines

Savor spring ephemerals in the Pine Barrens. See Hessel's Hairstreak, a tiny green jewel of a butterfly, plus Brown Elfin, Pine Elfin, and the rare Hoary Elfin. Meet and end near Warren Grove. We'll visit the famous and unique pigmy forest, where the pines are only 3 feet tall. 10am - 3pm.. \$30 Call for details. **CMBO**.

Sunday, May 8

Mother's Day Sail and Breakfast

On the Schooner AJ Meerwald. 9am - noon. Depart from historic Bivalve. \$35/adults, \$15/children 12 and under. Call 856 785-2060 x100 for reservations.

Friday, May 13

Jersey Devil Hunt

See April 29 for details. **PPA**.

Saturday, May 14

Big Swamp Cougar Hunt

Be prepared for some rugged

trekking, as we'll be going into places few others go. Dress wisely, and pack a lunch. We'll look for cougar sign as we pass through some of the most remote locations in the Pinelands. \$35. **PPA**.

Sunday, May 15

Spring in the Pines: Birds & Botany of Bass River State Forest

Take time to stop and take in the sights and sounds of the Pinelands forest. Meet at forest office; binoculars are recommended. 9am - Noon. Bass River State Forest. Call (609) 296-1114 for more information.

Saturday, May 21

Birds & Breakfast

Explore Woodford Cedar Run Wildlife Refuge during the peak of migration. Continental breakfast afterwards. Wear walking shoes, bring binoculars and bottled water. Breakfast provided. Adults only. \$10 per person. 8 - 11am. Call (856) 983-3329, Opt. #1 for information and reservations. **WCR**.

Canoe the Maurice River

From Willow Grove to Almond Road. Meet at 9am at Garden Road and River, Brotmanville (exit #35 off Rt. 55 South). Arrive early to unload boat and gear. No rentals. Contact: Hartley Tucker, 856 692-5403. **SJCC**.

Sunday, May 22

Canoeing Piney Rivers

A day-long naturalist tour of one of the beautiful and historic Pinelands rivers. Foliage and wildlife make this an exhilarating and memorable experience. A great introduction to the history and ecology of the Pine Barrens. \$15 pre-registration, plus \$35 per canoe. **PPA**.

Friday, May 27

Jersey Devil Hunt

See April 29 for details. **PPA**.

Friday, June 3

Jersey Devil Hunt

See April 29 for details. **PPA**.

Sunday, June 5

Woods & Wetland Wildflowers

Search forest edges, bogs and roadsides for blooming wildflowers. Wear waterproof shoes. Meet at Woodford Cedar Run Wildlife Refuge for coffee, then go by van to begin your adventure. Bring lunch and enjoy a scenic picnic along the way. Adults only. \$5/person. Call (856) 983-3329, Opt. #1 for reservations. 9am - 3pm. **WCR**.

If your organization is having an activity you would like to see listed contact *Inside the Pinelands*, 17 Pemberton Road, Southampton, NJ 08088; ph: 609-859-8860; e-mail mikeh@pinelandsalliance.org. Next deadline: May 5, 2005.

PLEASE VISIT OUR WEBSITE AT WWW.PINELANDSALLIANCE.ORG
PLEASE SUPPORT OUR MISSION & BECOME A MEMBER

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City: _____ County: _____ State: _____ Zip: _____

Phone (Day): _____ (Evening): _____

E-Mail: _____

Check enclosed payable to PPA

Mastercard

Visa

Discover

Card Number: _____ Exp. Date: _____

Signature of Card Holder: _____

Membership Categories

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- Family \$60
- Sponsor \$100
- Patron \$250
- Benefactor \$500
- Chairman's Circle \$1,000
- Other _____

All members receive:
A PPA membership card
A year's subscription to *Inside the Pinelands*
A PPA window sticker
Discounts on PPA merchandise and events

**SEE PAGE 2 FOR
PPA'S SPRING WISH LIST**

A Sponsor will receive an *Exploring the Pine Barrens of New Jersey* map
A Patron will receive a copy of *Exploring the Pine Barrens of New Jersey* book
A Benefactor will receive a Pinelands Botanical Print by Robin Jess
A member of the Chairman's Circle will receive a personalized tour of the Pinelands



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