



TENNESSEE NATIVE PLANT SOCIETY

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March 2020

Prairie Barrens Preserve Bio-blitz by Cynthia Rohrbach

Thirty volunteers from the Tennessee Native Plant Society, Swan Conservation Trust, and the Southeastern Grasslands Initiative (SGI) braved the sun and heat on Sunday, August 11, 2019 to conduct a bio-blitz of The Farm Community's Prairie Barrens Preserve. Experts on wildflowers, grasses, birds, bees, butterflies, and other insects came together to identify all species encountered. Findings were photographed and added to The Prairie Barrens Preserve project page on iNaturalist. This effort was in support of the SGI's goal to document the Southeast's existing prairie remnants.

In the words of Mason Brock, Collections Manager at the Austin Peay State University herbarium, "The Farm Community's prairie represents one of the last remnants in the Western Highland Rim. The main prairie opening is a remarkable site, with species complexity indicative of near-pristine prairie conditions. Of particular note is the healthy remnant population of rattlesnake master (*Eryngium yuccifolium*), which has become very rare in the local area." One specialized moth, the rattlesnake master stem-borer (*Papaipema eryngii*), is dependent on the Rattlesnake Master to complete its life-cycle. Another dependent insect is the larva of a seed-eating moth (*Coleotechnites eryngiella*) that burrows through the flowerheads, eating seeds as it grows.

Native warm-season grasses, such as Indiangrass, Big Bluestem, Little Bluestem, and Broomsedge are prolific. Flowers, too numerous to list in full, but commonly seen that day were Wild Quinine, Maryland Meadowbeauty, Ashy Sunflower, Purpledisc Sunflower, Wild Bergamot, Pink Fuzzybean, Pink Milkwort, several goldenrods, asters, and thoroughwort/bonesets. Two Blazing Star species attract butterflies summer through fall – *Liatris spicata* and *Liatris squarrulosa*.

A significant discovery was Narrow-leaf Rose Gentian (*Sabatia brachiata*), as differentiated from Rose Pink (*Sabatia angularis*) by Cooper Breeden of SGI. Having both *Sabatia* species at the Preserve is a special occurrence!

Notable insect finds of the day included 30 species of butterflies and moths; among them was Bart Jones' sighting of two Funereal Dusky-wings (*Erynnis funeralis*), which was a county record for Lewis County and a rare skipper butterfly in the state overall. Caterpillar host plants are legumes, which are plentiful at The Prairie Barrens Preserve.



GIANT HYSSOP
(*AGASTACHE NEPETOIDES*)
BY ALICE JENSEN

Other notable finds were Hoary Edge, Monarch, Viceroy, Pipevine Swallowtail, Painted Lady, and American Snout butterflies.

In addition, 7 species of damselflies and dragonflies were seen, including Widow Skimmer, Halloween Pennant, and Citrine Forktail. Thirteen other insect species and 3 spiders were found by Dr. Steve Murphree of Belmont University.

Allan Trently, TN Natural Areas Stewardship Ecologist, had this to say, "Considering that over 99% of grasslands have been destroyed in Tennessee (and North America), it is truly wonderful and admirable what The Farm Community in cooperation with Swan Trust has accomplished. The richness of species that we identified during the bioblitz is a result of hard work and dedication. I applaud The Farm Community and Swan Trust for their contribution to conservation."



ASHY SUNFLOWER
(*HELIANTHUS MOLLIS*)
BY ALICE JENSEN

TNPS Newsletter

This newsletter is a publication of the Tennessee Native Plant Society and is published four times a year, generally in February, June, August, and November.

The Tennessee Native Plant Society (TNPS) was founded in 1978. Its purposes are to assist in the exchange of information and encourage fellowship among Tennessee's botanists, both amateur and professional; to promote public education about Tennessee flora and wild plants in general; to provide, through publication of a newsletter or journal, a formal means of documenting information on Tennessee flora and of informing the public about wild plants; and to promote the protection and enhancement of Tennessee's wild plant communities.

Dues for each calendar year are:

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Dues may be sent to:

Tennessee Native Plant Society

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Nashville, TN 37215

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Please send comments and material for the TNPS newsletter to djhilgem@gmail.com

A Letter from the President

Hello Everyone,

Well another year has come and gone. We have had a great year of field trips. Thanks and more thanks to all the trip leaders. They spend time scouting out the trails and noting plants of interest. Usually they also write up the field trip reports and include beautiful photos. The Field Trip Committee have met and have set the field trip schedule for this year. This is included in this newsletter.

We have had a dedicated Board who have led us through another eventful year. Thanks to Bart Jones for heading up our Annual Meeting at Reelfoot Lake. What an array of nature we saw—from plants to tree frogs to an American Bald eagle. If you haven't been to Reelfoot Lake State Park, it is an exceptional place to see.

We will be having our 2020 Annual Meeting in April this year. The weekend of April 3-5. We will be centered in the historic town of Red Boiling Springs. We will have various options for field trips. Mark the dates on your calendars.

Thanks also to our Outreach-Education Coordinators—Shelley King-East, David Hilgeman-West and Kim Sadler-Middle. They help spread the word of TNPS and educate the public about Native Plants. Thanks also to Margie Hunter who has headed up the Nashville Lawn and Garden Show for several years. It wouldn't happen without her energy and ability to organize a group of volunteers.

A lot of us exchange information and knowledge when we are out on our field trips. The most extensive sharing of information comes through our newsletter. We are very lucky to have David Hilgeman as our editor. He not only puts the information in a beautiful newsletter but also has to nudge us to get him the information on time. Thanks David.

Thanks also goes to our solid crew social media folks—Karen Hill-Website oversight, Joanna Bricchetto-Facebook, and Jennifer Trently-Instagram. Without them our presence would be very limited.

Once again thanks to all of our members. If you have suggestions for field trips, meeting sites, or speaking engagements feel free to contact a Board member or someone else in your area to share that information. Any organization is only as good as it's membership.

See you on the trails,



Susan

865-938-7627

ssretiree@yahoo.com

2020 Hike Schedule

<p>3/14, Wild Ones Plant Natives Symposium</p> <p>The ninth annual event is between 8AM and 430 PM. Check the web-site for more information schedule, speakers, exhibitors, and vendors: https://tnvalleywildones.org/plantnatives-2020/</p>	<p>Meeting Place: University Center on the campus of the University of Tennessee, Chattanooga.</p>
<p>3/28, Old Stone Fort State Park, Coffee County</p> <p>Bonnaroo is not the first party to be held in Manchester. Some 2000 years ago Native Americans held ceremonial events in the 50 acre enclosure inside what is now the State Park. The enclosure is bounded by the Duck River on one side and the Little Duck River on the other, as both rivers cut their way down through the Highland Rim to the Central Basin, forming waterfall steps along the way. The far end of the enclosure is bounded by the old river channel, now referred to as "the moat." We will hike along the "walls" of the enclosure and along the Moat Trail to the junction of the rivers. Spring wildflowers should be abundant in the lower sections of the trail, including Virginia Bluebells, Yellow Trout Lily, Sharp-Lobe Hepatica, Rue Anemone, Wild Ginger, and toothwort species.</p> <p>Lunch: Bring water, snacks, and camera. Plan to have lunch in Manchester around 1:00 pm after the hike.</p>	<p>Contact/Leader: Dennis Horn</p> <p>Phone/email: 931-461-0262 horndd@lighttube.net</p> <p>Meeting Place/Time: Park Visitor Center 10:00 am Central Time</p> <p>Difficulty: Easy to moderate 2 mile hike</p> <p>Facilities: Facilities at the visitor center.</p> <p>Directions: From I-24 exit 110, turn south onto TN Hwy 53 toward Manchester. Go about one mile to a tee. Turn right onto US Hwy 41. Go another mile to the park entrance on the left. Drive on the main park road to the visitor center parking lot.</p>
<p>3/28, Spring Wildflowers at Meeman-Shelby Forest State Park, Memphis</p> <p>Leave the urban environment behind and explore the wooded ravines of this large state park for spring wildflowers. We will concentrate our time hiking along the horse trail where we should see all three varieties of <i>Viola sororia</i>: var. <i>sororia</i> (common blue violet), var. <i>albiflorus</i> (white wood violet), and var. <i>priceana</i> (Confederate violet) among other common spring ephemerals. If time allows, we may go to another paved walking/biking trail that has a large population of the uncommon oceanblue phacelia (<i>Phacelia ranunculacea</i>) with its minute light blue bell-shaped flowers that easily can be mistaken for baby blue-eyes. This trail also has lots of wild blue phlox (<i>Phlox divaricata</i>), prairie trillium (<i>Trillium recurvatum</i>), and spring beauty (<i>Claytonia virginica</i>).</p> <p>Lunch: Bring to eat at picnic area in park.</p>	<p>Contact/Leader: Bart Jones</p> <p>Phone/email: 901-485-2745 bjones7777@hotmail.com</p> <p>Meeting Place/Time: Parking lot at the park Visitor Center 10:00 am Central Time</p> <p>Difficulty: Easy to moderate. The horse trail does go down and back out of ravines and the trail can be muddy after a rain.</p> <p>Facilities: At the Visitor Center and at parking area of hiking/biking trail.</p>
<p>4/3-5, Annual Conference at Red Boiling Springs</p>	<p>See Registration Form or tnps.org.</p>
<p>4/11, Frozen Head Wildflower Walk</p> <p>This is a joint outing for the 53rd Frozen Head Wildflower Pilgrimage with TNPS and TCWP. We will have an excellent opportunity to see spring wildflowers. The first mile is ideal for those with rather limited hiking capabilities; the trail is wide and flat. It is a loop with quick return to the parking area (Interpretive Trail). For those continuing the next 2 miles are steeper and rougher but still moderate (Judge Branch and S. Old Mac Trails).</p> <p>Difficulty: Option 1. One mile of wide flat trail. Easy. Option 2. Three miles with a stream crossing and some steep places. Moderate.</p>	<p>Contact/Leader: Larry Pounds and Jimmy Groton 865-705-8516, PoundsL471@aol.com</p> <p>Meeting Place/Time: For carpool: Gold's Gym/Books-A-Million parking lot in Oak Ridge (at the end close to S. Illinois Avenue, near Salsarita's, 9AM Eastern. Alternatively, meet at the Frozen Head State Park Office 10 AM Eastern.</p> <p>Lunch: Bring water, lunch, and bug spray</p> <p>Facilities: At Meeting Place</p>
<p>4/11/2020, Rock Island State Park, Warren/White Counties</p> <p>Rock Island State Park is located in the Eastern Highland Rim on the Caney Fork River in Middle Tennessee. The town of Rock Island was a thriving community in pioneer days and a major stop on the Kentucky to Alabama road. The Great Falls Cotton Mill operated there from 1892 to 1902 and the main building is still standing high above the river. The hike will begin at the overlook of Twin Falls. We will then follow alongside the river downstream to the Blue Hole and loop back past a small cave and waterfall. The trail has a rich spring flora with over 100 species recorded during the TNPS plant inventory in 2012. ...(continued on next page)</p>	<p>Contact/Leader: Dennis Horn 931-461-0262 horndd@lighttube.net</p> <p>Meeting Place/Time: Meet at Twin Falls Parking Lot, 10 AM Central</p> <p>Difficulty: Easy to moderate 2 mile hike</p> <p>Lunch: Bring water, snacks, and camera.</p>

2020 Hike Schedule

<p>4/11/2020, Rock Island State Park, Warren/White Counties (continued from previous page)</p> <p>Bring your camera and enjoy the spring wildflowers. After lunch at the Market we will hike the very short but amazingly diverse Badger Flat loop.</p>	<p><i>Directions:</i> On US Hwy 70 South, midway between Sparta and McMinnville, turn onto Hwy 136. Continue past the small town of Rock Island (gas station and archway) and over the Caney Fork River. Turn left onto the first road past the bridge (Powerhouse Rd). It will have a sign saying 'to Twin Falls.' In about 2 mi. this road will dead end at the Twin Falls parking lot.</p>
<p>4/17-19, Trails and Trillium</p> <p>The Trails & Trilliums festival attracts hundreds of hikers, wildflower enthusiasts and families who come to the Cumberland Plateau during peak wildflower season. This 3-day festival raises funds to support the initiatives of the Friends of South Cumberland (FSC), working in support of South Cumberland State Park. https://www.trailsandtrilliums.org/</p>	<p>Where: Dubose Conference Center in Monteagle, Tennessee</p>
<p>4/18/20, Stinging Fork Falls to Piney River</p> <p>We will caravan from the Exxon to the Lower Piney River Trailhead to start a shuttle leaving some cars there. We will then carpool to the Stinging Fork Falls Trailhead. From there we hike back to the Piney River Trailhead. This section of the Cumberland Trail was completed in the fall 2018. What spring flowers we will see is hard to predict. The route is definitely scenic. Alternatives: People are welcome to head back early to the Stinging Falls Fork Trailhead. They will need a car there or will have a wait till the afternoon when the shuttle is completed. With this alternative you could drive back from the Stinging Fork Trailhead to the Piney River Trail Head and walk in along the flat trail by Soak Creek to meet the rest of the group as they reach Soak Creek</p> <p>Difficulty: Total walking distance will be about 6 miles. The trail is up and down with many steps.</p>	<p>Contact/Leader: Larry Pounds 865-705-8516 PoundsL471@aol.com</p> <p>Meeting Place/Time: For carpool: Gold's Gym/Books-A-Million parking lot in Oak Ridge (at the end close to S. Illinois Avenue, near Salsarita's 9 A.M. Eastern Time. Alternatively, meet at the Rocky Top/ Exxon/ MacDonald's on US 27 in Spring City at 10 AM Eastern.</p> <p>Lunch: Bring Water, lunch, bug spray.</p> <p>Facilities : At meeting places</p>
<p>4/22-25, Wildflower Pilgrimage</p> <p>The Spring Wildflower Pilgrimage is an annual event in the Great Smoky Mountains National Park featuring professionally-guided walks to explore the region's rich natural and cultural resources. Programs included fungi, ferns, wildflowers, trees and shrubs, medicinal plants, and more. Directions and details: www.wildflowerpilgrimage.org</p>	<p>Where: Great Smoky Mountains National Park, Gatlinburg, TN</p>
<p>5/1-2, Elsie Quarterman Cedar Glade Wildflower Festival</p> <p>Elsie Quarterman Cedar Glade Festival is an annual event held at Cedars of Lebanon State Park at the Cedar Forest Lodge (from the main entrance take the fork in the road to the right to the first building on the right). Lectures, hikes, roundtable discussions and more. Details and directions: www.mtsu.edu/glade-center</p>	<p>Where: Cedars of Lebanon State Park</p>
<p>5/9, Bridgestone/Firestone Centennial Wilderness, Sparta</p> <p>We will explore the Chestnut Mountain and Polly Branch Trails where we hope to see large stands of pink lady's slipper (<i>Cypripedium acaule</i>) and mountain laurel (<i>Kalmia latifolia</i>), and if we're lucky, we might be able to catch the end of the bloom season for other spring ephemerals such as dwarf ginseng (<i>Panax trifolium</i>). A few woody perennials may be in bloom, too, including Dutchman's pipe (<i>Aristolochia macrophylla</i>) and nine-bark (<i>Physocarpus opulifolius</i>).</p> <p>Directions: In De Rossett 8 or 9 miles E. of Sparta on US 70, turn south on Eastland Road at Bondecroft Headstart Village. Go about 6.5 miles until you get to the graveled parking area on the right at the entrance of the WMA.</p>	<p>Contact/Leader: Bart Jones</p> <p>Phone/email: 901-485-2745 or bjones7777@hotmail.com</p> <p>Meeting Place/Time: Polly Branch Falls Trailhead 10AM Central</p> <p>Lunch: Bring Water, lunch, bug spray.</p> <p>Facilities : None</p> <p>Difficulty: ~4 miles with some steep sections</p>

2020 Hike Schedule

<p>6/20/2020, Couchville Coneflowers at Sunset</p> <p>The Tennessee Coneflower was the first federally listed plant species in Tennessee to be removed from the Endangered Species List. The population at this State Natural Area is one of the reasons that goal was achieved. We will see a lot of them and other glade and barrens species as we watch the sun get lower in the sky on one of the longest days of the year. Some of the views along the trail can be spectacular so bring your camera gear to capture the beauty of the coneflowers and the summer sky. Ticks and mosquitos could make an appearance so bring some type of defense. The hike is only a mile along the loop trail but we will take our time and spend about 3 hours to get to the best view of the setting sun.</p>	<p><i>Contact/Leader:</i> Todd Crabtree 615-532-1378 todd.crabtree@tn.gov</p> <p><i>Meeting Place/Time:</i> Couchville State Natural Area parking lot (36.101176, -86.529356)</p> <p><i>Meeting Place/Time:</i> 4PM</p> <p><i>Difficulty:</i> Moderate difficulty due to some rocky and uneven terrain and potential high temperatures.</p> <p><i>Lunch:</i> Bring plenty of water and footwear with ankle support</p> <p><i>Facilities:</i> None at the meeting place</p>
<p>7/18, Thomas Divide to Kanati Fork (Car Shuttle Required)</p> <p>We will hike Thomas Divide trail and then go down the mountain on the Kanati Fork Trail. We will see a variety of plants and look for some rare plants. This will be about 5 miles with about 3 miles downhill</p>	<p><i>Leaders:</i> Allen and Susan Sweetser ssretiree@yahoo.com 865-938-7627</p> <p><i>Meet:</i> Newfound Gap 10am</p> <p><i>Bring:</i> Lunch, water and bug spray.</p> <p><i>Facilities:</i> at Newfound Gap.</p>
<p>8/29/2020, A Morning in the Barrens at Flat Rock</p> <p>Numerous composites will be flowering at this time of year and some of them are rare or uncommon. Grasses will also be putting on a show as we wind our way through the barrens before the worst of the heat arrives in the middle of the day. Globally rare plants can be found on this natural area and we will see a few and discuss the ongoing management that benefits them. Bring your insect repellent as we will occasionally leave the security of the trail. The total distance hiked should be less than 2 miles but the heat at this time of year could make it feel worse.</p>	<p><i>Contact/Leader:</i> Todd Crabtree 615-532-1378 todd.crabtree@tn.gov</p> <p><i>Meeting Place/Time:</i> Flat Rock State Natural Area parking lot (35.858582, -86.295628) , 8 AM</p> <p><i>Difficulty:</i> Moderate difficulty due to some rocky and uneven terrain and potential high temperatures.</p> <p><i>Lunch:</i> Bring plenty of water and footwear with ankle support</p> <p><i>Facilities:</i> None at the meeting place</p>
<p>9/5/2020, Crab Orchard Mountain Powerline Fall Flowers</p> <p>We will walk along the powerline right-of-way to see many species of aster, goldenrods and other fall flowers. This is a joint TNPS and TCWP outing.</p> <p><i>Meeting Place/Time:</i> For carpool: Gold's Gym/Books-A-Million parking lot in Oak Ridge (at the end close to S. Illinois Avenue, near Salsarita's at 9 AM Eastern Time. Alternatively, meet at Marathon Gas Station I-40 Crab Orchard exit 329 east of Crossville at 10 AM Eastern Time.</p>	<p><i>Contact/Leader:</i> Larry Pounds 865-705-8516 PoundsL471@aol.com</p> <p><i>Difficulty:</i> The walk will be less than 4 miles round trip.</p> <p><i>Lunch:</i> Bring: Water, lunch, bug spray.</p> <p><i>Facilities:</i> At meeting places</p>
<p>10/24/2020, Late Fall at Carroll Cabin Barrens State Natural Area</p> <p>Since we were thwarted by severe storms last year, we will make another attempt at this trip. One of West Tennessee's botanical jewels, Carroll Cabin Barrens State Natural Area harbors one of just two state populations of Great Plains ladies'-tresses (<i>Spiranthes magnicamporum</i>). These orchids are the latest-blooming of all our native orchids and occur in widely scattered prairie relicts in the South that are disjunct from the main populations found in the upper Midwest. If we are lucky (and there has been no frost), we hopefully will enjoy some nice fall foliage and some of the last flowers of the other special fall plants of the barrens like barrens silky aster (<i>Symphotrichum pratense</i>), stiff aster (<i>Lonactis linariifolia</i>), blue sage (<i>Salvia azurea</i> var. <i>grandiflora</i>), and obedient plant (<i>Physostegia virginiana</i>).</p>	<p><i>Contact/Leader:</i> Bart Jones 901-485-2745 bjones7777@hotmail.com</p> <p><i>Meeting Place/Time:</i> Parking lot of the Carroll Cabin Barrens State Natural Area (35.467472, -88.053667) at 10:00 am Central Time.</p> <p><i>Difficulty:</i> Easy to moderate. Much of the walking is on slopes and there are areas where rocks protrude.</p> <p><i>Lunch:</i> Late lunch at MeoMio's Cajun Restaurant close by. <i>Facilities</i> at the restaurant.</p>

Tennessee Native Plant Society

Devil's Walking Stick (*Aralia spinosa*) - A Devil of a Leaf

The devil has only a few hangout spots on the CUMBERLAND TRAIL: Devil's Step, Devil's Breakfast Table and Devil's Racetrack. So it is fortunate for the devil that his walking sticks can be found at many places along the trail or elsewhere in East Tennessee. No one but the devil would want to use this small tree for a walking stick, as it is covered with sharp prickles.

Devil's walking stick deserves our attention for its leaves as well as its prickles. It has the largest leaves of any plant in temperate North America. See photo of one leaf. To understand its leaves we need to know that the everyday concept of a leaf is not the same as the botanist's. For a botanist a leaf includes both leafy areas (blades) and their stems.

Stems are the support structures (petioles, rachises, petiolules). Everything, blades and support that drops off trees is leaf. In the autumn the branches and twigs remain and the leaves fall. The leaves and flowers are the non-woody part of the tree. In general, a leaf with no forking (thus only one blade) is called "simple." Examples of simple leaves include oaks and maples. A leaf with forking to support leaflets is called "compound." Examples of compound leaves include hickories, ashes and devil's walking stick.

The devil's walking stick leaf in the botanical sense is complex with dozens of blades (leaflets) and a repeatedly-forking support system. The forking may be irregular with up to three levels of forking. The leaf (the whole shebang) is up to a yard long and almost as wide!

The walking stick grows in many scattered places along the CUMBERLAND TRAIL. Look for it in forest edges or somewhat-disturbed forests anywhere in East Tennessee. Often it occurs in areas recovering from strip mining. It spreads from the roots and so creates colonies. These colonies are common in some areas but oddly absent from others.

Excerpt from *Wildly Strolling Along* by Larry Pounds and Ben Pounds



PHOTO BY LARRY POUNDS



PRAIRIE BIO-BLITZ GROUP PHOTO
BY GEORGE WALLACE



RATTLESNAKE MASTER
(*ERYNGIUM YUCCIFOLIUM*)
BY CYNTHIA ROHRBACH

Please Contact the Leader if You Plan on Attending a Hike!

2020 Annual Meeting Registration



2020 TNPS Annual Meeting Registration Donoho Hotel, Red Boiling Springs April 3-5, 2020

Please complete and return with payment by **March 30th**.

Please note:

- Our meetings will be held at the Donoho Hotel and they have reserved a block of rooms for us. For reservations call 615-699-3141 and let them know that you are with TNPS. Cost per room: 1 full = \$99+tax; 2 full, 1 queen, or 1 king = \$109+tax.
- Breakfast is included with a room at the Donoho Hotel and meals in their restaurant can be charged to your room. Lunch and supper are family style/all you can eat (2 meats, 3 vegetables, biscuits, beverages, and desert for \$14.) Box lunches are available.

Registration fee \$25 per person; # people _____ @ \$25 = _____

Registrant #1 Information:

Name _____
 Address _____
 Telephone _____
 Email _____
 Special Needs _____

Registrant #2 Information:

Name _____
 Address _____
 Telephone _____
 Email _____
 Special Needs _____

Make check(s) payable to **TNPS** and send to:

Karen Hill, 2152 Ravenscourt Drive, Thompsons Station, TN 37179

2020 Annual Meeting

More 2020 annual meeting
details coming soon!

Check back at *tnps.org*
for more details.

When Dues Are Due?

Unless you are an email subscriber, check your mailing label for your membership date. You are paid through the year listed just above your name. You can pay TNPS dues at any time, and now you can pay online at the TNPS Website. Just go to www.tnps.org, click "Membership," and follow directions there. If your address has changed, you can email the new address to info@tnps.org. We cannot print the newsletter in full color, but you may be pleased to find all the color in email copies and at the website. www.tnps.org

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