

TENNESSEE NATIVE PLANT SOCIETY NEWSLETTER

Volume 11 Number 1

February 1988

The Tennessee Native Plant Society was founded in 1978 as a botanical club for all persons interested in the native flora of Tennessee. Its purpose is to promote interest in plant identification, folklore, growing native plants from seeds and cuttings, landscaping with native plants, preserving natural areas and protecting rare plants.

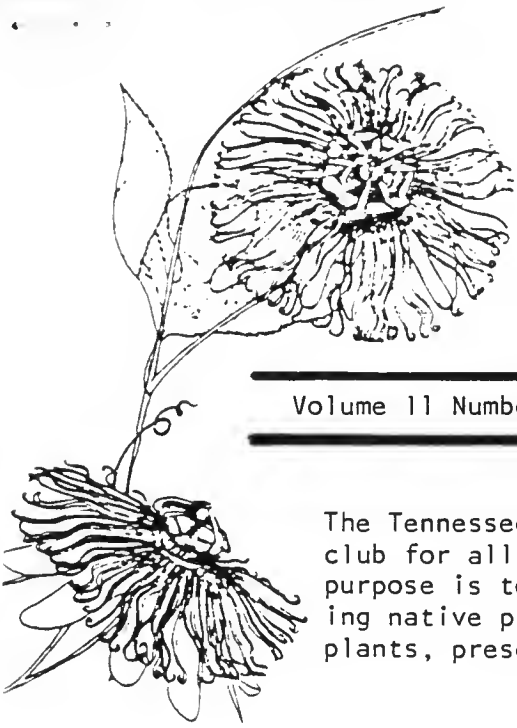
MESSAGE FROM THE PRESIDENT

This year the Tennessee Native Plant Society turns ten. We tend to make a fuss over those anniversaries which end in a 5 or a 0 (I don't know why we seem more likely to dismiss the 6th, 11th or 38th - but we do), so I dutifully will fall in line and say a few words about this one. The stated goal of the TNPS is to well, you can read it just below the letterhead. It is a worthy goal which, to a degree, we have achieved, but which also we are likely never to fulfill, for a great deal is yet to be done. Much remains to be learned by each of us; there still is the current, as well as future generations, to teach; new discoveries wait to be made; and I think none of us yet have had our fill of springs, and their first flowers which, each year when they come up, make us feel as if it's the first time we've seen them.

It would be redundant of me to point out the numerous ways plants benefit us and bring us pleasure. However, at the risk of sounding tiresome, dulling us to the urgency of the situation, a warning concerning the present dilemma in which we find ourselves bears repeating. Tennessee is experiencing rapid development. It is threatening, even consuming, our rich floristic heritage. Recently, the City of Oak Ridge apparently had agreed to protect an unusual cedar barren harboring several rare and interesting species. It now appears that it will become part of a shopping mall. Proposed widening of U.S. Highway 64 along the Ocoee River may soon destroy habitat for Pityopsis ruthii and Sedum nevii, two state-listed endangered species. Construction of I-840, and possibly that of the supercollider, no doubt will impact many Middle Tennessee cedar glades, and continuing stream channelization and conversion of forest to cropland casts a pall over West Tennessee's remaining wetlands.

This is our dilemma: can development and the maintenance of our native flora coexist? Can we find ways to ensure that they do? Where they cannot, can we achieve the protection that valuable plant species and communities deserve? The warning, then, to us all if we treasure our native plants, is that WE must seek for and find solutions. It is a search we must busy ourselves with now and well into the future. We cannot forget it or lay it aside.

Tennessee's flora is among the nation's most diverse, and the TNPS is the only statewide organization dedicated solely to understanding and appreciating that



flora. As members, greater involvement and commitment are obvious first steps we must take in efforts to ensure that future Tennesseans enjoy the same rich array of species we now do. Soon we will select new officers to guide us for the next two years. Field trips into all of Tennessee's three grand divisions are planned for 1988. Whether the opportunity is to take part in a field trip, to be an officer or board member, or to serve in some other capacity, I urge you to take it. As our urban areas continue to grow and our rural lands shrink, the TNPS increasingly will be an influential voice on the side of our native plant species. To help guarantee a future for the Tennessee Native Plant Society, each one of us needs to be involved. Your participation is the key. Do your part to see that the TNPS sees its next anniversary with a zero on the end of it.

--Scott C. Gunn
TNPS President

P.S. Involvement and commitment: I know an example. In the last newsletter, Mark Fuzek bid us farewell as editor. This was to be an unfortunate loss, since he has produced many outstanding editions during his tenure as editor. We were very disappointed to see him go, but on appeal from Shirley Nicholson, Dennis Horn and others, Mark agreed to continue to be a part (but future newsletters may be a bit slimmer). Now, Mark, on the behalf of all the TNPS, I wish you well at your "new" job as the TNPS Newsletter editor and thank you for your continued involvement in and commitment to the TNPS.

Editor's Note: Well members, what can I say? No one would accept my resignation! So, I am back as your Editor for an encore I guess. Although my full-time position as a VISTA Volunteer is my number one priority now, I hope that I will still be able to produce a quality and timely newsletter. The key factors are participation by sending me pertinent articles from newspapers, magazines, journals, books, field trip announcements and reports, etc., and promptness in getting these materials to me by the deadline! I cannot emphasize this enough.

Please send your contributions to: Mark L. Fuzek, TNPS Editor, P.O. Box 525, Knoxville, TN 37901-0525. DEADLINE FOR MATERIALS FOR THE APRIL NEWSLETTER IS ON OR BEFORE MARCH 10, 1988! Your cooperation and promptness is greatly appreciated. I may also be reached by calling (615)525-3651 (Home) or (615)523-1135 (Work).

****NEWS FLASH**** At the TNPS Board Meeting on February 14, 1988, it was decided that even though our fiscal year begins each January, all members (renewed or not for the new year) will receive the February issue of the newsletter. We hope this will encourage membership renewal; and with it containing the TNPS Field Trip Schedule, that it will help increase field trip participation. Further details of the Board Meeting will be in the April Newsletter. ****NEWS FLASH****

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1988 FIELD TRIP SCHEDULE
TENNESSEE NATIVE PLANT SOCIETY

Each trip is presented in greater detail in an appropriate issue of the News-letter. Phone numbers of leaders or places to call, dates and event names are listed below. Official TNPS trips are led by persons familiar with native plants and several this year are being combined with trips sponsored by the Association of Amateur Field Botanists (AFBees) to reduce duplication and scheduling conflicts, and to bring people having common interests together. Trips provide an opportunity to observe, photograph and learn about our native flora. Since plant protection and conservation are primary objectives of our organization, digging or collecting plants on field trips IS NOT ALLOWED! Ideas and suggestions for future field trips are always appreciated.

Sunday April 10	Short Springs Area, Coffee County (with AFBees, TTA, and Tulahoma Historical Society)	Dennis Horn (615)455-5742 (H)
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Saturday April 16	Spring Cedar Glade Flora, Maury County (with AFBees)	Harold and Nancy Scott (615)388-0850 (H)
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Sunday May 8	Samples Fork/Rocky River Gulf, Grundy County (with AFBees)	Margret Rhinehart 'Bus' Jones (615)892-3009 (H)
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MAY WEEKEND ADVENTURE with Tom Patrick:

Saturday May 14	Center Hill Quarry Surprise, DeKalb County	Tom Patrick (404)557-2514 (W)
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Sunday May 15	Big South Fork Ramble, Scott County	
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JUNE/JULY MOUNTAIN WEEKENDS (with AFBees):

Friday June 17	Nolichucky River Hike, Unicoi County	Ed Schell (615)282-6125 (H)
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Saturday June 18	Holston Mountain, Carter County	and
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Sunday June 19	Roan Mountain, Carter County (Early Flora)	J.I. 'Bus' Jones (615)892-3009 (H)
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Saturday July 23	Roan Mountain, Carter County (Summer Flora)	
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Sunday August 14	Orchid Trip (To be determined)	Dennis Horn (615)455-5742 (H) (615)454-7447 (W)
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Sunday September 11	Pace Point (Kentucky Lake), Stewart County	Nita Heilman (615)645-9338
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-----APRIL TNPS FIELD TRIP-----

SHORT SPRINGS NATURE AREA

DATE: Sunday, April 10, 1988

TIME: 1:00 p.m. Central Time

PLACE: Meet at the Dairy Queen in Tullahoma, TN. Coming from Manchester, leave I-24 at Exit 111, take TN State Hwy 55 to Tullahoma. The Dairy Queen is on the left, one block past the first traffic light.

LEADER: Dennis Horn, 222 Crestwood Drive, Tullahoma, TN 37388. Phone: (615)455-5742 (Home), (615)454-7447 (Work)

The annual spring wildflower hike to the Short Springs Nature Area has become a tradition among Tullahoma area residents. Come join the Tennessee Trails Association, the Association of Amateur Field Botanists, the Tennessee Native Plant Society, and the Tullahoma Historical Society for a short afternoon hike to an extremely rich site for spring wildflowers.

Short Springs is a 550 acre tract owned by the City of Tullahoma and was previously the source of water for the city. It has recently been proposed for protection as a State Natural Area and a city day-use park. The tract contains numerous ravines, bluffs and waterfalls. There are moss covered seepage slopes and dripping springs. Wildflowers are abundant below the waterfalls and along the creeks. Short Springs contains the only known site for Nestronia umbellula in the state of Tennessee. Last summer, Melanthium latifolium was verified as occurring on the Short Springs tract, a plant rare in Tennessee and known only from the Unaka Mountain Range in East Tennessee.

Be prepared for a round trip hike of less than one mile into a moderately steep ravine, to the base of beautiful Machine Falls, then rock hop across BoBo creek to Busby Falls. A short (but steep) climb above the falls leads to an unusual parquet floor, a creek bottom composed of Chattanooga shale. Expect ankle-deep wading at a couple of the creek crossings for those hiking the entire loop.

WELCOME TO OUR NEW MEMBERS

Bates, Mr. & Mrs. Douglas T., Centerville, TN	Hafele, Mrs. Annie R., Kingsport, TN
Beazley, Deborah, Nashville, TN	Heiser, David, Nashville, TN
Bob & Walter's Cabbage Row Interiors, Centerville, TN	Henry, Ruth Ann, McMinnville, TN
Chandler, Nancy, Ashland City, TN	Johnson, Mrs. Michelle, Bethpage, TN
Cooper, Shelley E., Columbia, TN	Marley, Mrs. Pat, Kingston, TN
Dillingham, Mr. & Mrs. Martin, Fairview, TN	McDaniel, Mary Nell, Urbana, IL
Edsall, Mrs. James V., Cross Plains, WI	Page, Mr. Phillip S., Chattanooga, TN
Egger, Mrs. K. R., Kingsport, TN	Pass, Mrs. Judy, Madison, TN
Force, Larry H., Nesbit, MS	Raveill, Jay, Nashville, TN
Garden Club of Lookout Mountain, Lookout Mountain, TN	Riddick, Johanne/Struck, Carl, Chapmansboro, TN
	Shafer, Steve, Charlotte, TN
	Thompson, Sarah G., Memphis, TN
	Vincent, Randy, Nashville, TN

FROM THE MAILBOX.....

Editor,

In the last Newsletter [December 1987, Volume 10 Number 6] a list of "Native Plant Species Recommended for Tennessee" was presented (p. 12).

I think some of these should be deleted because they are not native and are often aggressive. Among those I recommend removal are: Yarrow (Achillea millefolium); Blackberry Lily (Belamcanda chinensis)--which may also harbor fire blight; Jimsonweed (Datura stramonium)-toxic; Queen Anne's Lace (Daucus carota); White Campion (Lychnis alba); Moth Mullein (Verbascum blattaria); and Common Mullein (Verbascum thapsus).

There may be other species which are rare but could be established in other suitable, hopefully protected areas to decrease chances of their loss. Among some that might be tried are Spiraea virginiana, Calamovilfa arcuata, Helianthus eggersii, and Lesquerella stonensis. Anyone planning to collect and sow seed of such plants should do so with the assistance of the Ecological Services of the Tennessee Department of Conservation.

John A. Churchill
813 Forest Avenue
Johnson City, Tennessee 37601

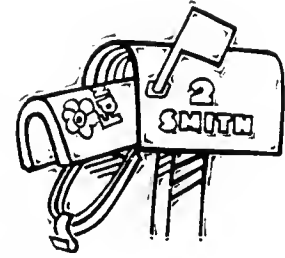
[Ed. Note: Thank you, Mr. Churchill, for sharing your opinions and "food for thought" with our members. I felt your letter worthy of putting in the Newsletter, and appreciate your contribution.]

FIELD TRIP REPORT

PLATANThERA ORBICULATA SEARCH, UNAKA MOUNTAIN--July 25, 1987

For those who may be wondering, last year's summer field trip to Unaka Mountain really did happen! On a beautiful, sunny yet cool, East Tennessee summer morning, nine hardy souls mustered for a day's reconnoitering on Unaka Mountain in Unicoi County. Our goal was to improve our existing knowledge of the distribution and abundance of the round-leaved orchid, Platanthera orbiculata, on the mountain. A couple of mid-elevation sites had been accurately reported and confirmed earlier by John Warden, Ed Schell and myself; we wanted to see where else it could be found in the same watershed.

The group consisted of B.F. and Jean Jones (Cookeville), Claudia Denton, Anne Lyon, and Sally Mirick (all of Knoxville), Connie McCall (Roan Mountain) and her friend Tunia Hyland, visiting from Bryn Mawr, Pennsylvania; plus Bob Brown and myself from Nashville. We started at the base of the mountain on a Forest Service road and worked our way upward stopping at likely looking habitat. With all nine people spread out about 10 feet apart, we started combing the forest floor. It wasn't long before cries of "eureka" or "is that it?" were heard along the line. Twenty plants, all vegetative, were found on our first transect. A repeat of this exercise further up the mountain yielded nine more. Our next stop was for lunch along the creek, where of course someone had to find more orchids. Here we found 8 more, one being our first with a flower stalk. Further excitement came from the discovery of Platanthera clavellata in bloom!



PLATANATHERA ORBICULATA SEARCH FIELD TRIP REPORT CONTINUED.....

After lunch, we drove up the mountain in order to take in the views from Beauty Spot and Pleasant Garden. Eating blueberries while exploring the heath thickets led to discussions about huckleberries vs. blueberries and contented bellies. On the way down the mountain a couple of high elevation sites were checked for P. orbiculata, but unfortunately we tallied more bee stings than orchids! Who ever said rare plant searches were always "the berries"?

--Paul Somers

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SMOKY MOUNTAIN FIELD SCHOOL 1988. The great Smoky Mountains National Park, in cooperation with The University of Tennessee Division of Continuing Education, invites you to participate in its Smoky Mountain School. The School consists of intensive weekend and five-day courses emphasizing outdoor exploration of the Smoky Mountains, complemented by classroom activities. All courses are limited to small numbers to assure individualized attention.

March 5	Winter Field Botany
May 14	Botanical Photography
May 28	Spring Wild Edibles
June 4	Forests and Trees of the Smokies
June 18-19	Identification of Ferns
June 25	Gregory Bald Azalea Hike
June 25	Summer Wildflowers of Pickett State Park
July 16-17	Mosses and Related Plants
July 30-31	Mushroom Identification
August 20	Summer Wildflowers of the Great Smoky Mountains National Park
October 1	Forests and Trees of the Smokies
November 12	Advanced Winter Field Botany

For other courses and more information, call (615)974-6688, or send your name, address, and telephone number to the Smoky Mountain Field School, Non-Credit Programs, 2016 Lake Avenue, University of Tennessee, Knoxville, TN 37996-3515, and ask them to send a brochure/registration form to you. (Courses may be registered for by telephone and charged to MasterCard or Visa.)

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38th ANNUAL SPRING WILDFLOWER PILGRIMAGE

GATLINBURG, TENNESSEE

April 28, 29 & 30, 1988

The Spring Wildflower Pilgrimage is a three-day program of conducted wildflower walks, motorcades, and photographic tours in the Great Smoky Mountains National Park. Sponsors are the Botany Department of The University of Tennessee, The Gatlinburg Garden Club, the Southern Appalachian Botanical Club and the Great Smoky Mountains National Park, with the assistance of the Gatlinburg Chamber of Commerce. Included in this newsletter is the Pilgrimage brochure with a complete schedule. Make plans to attend this beautiful event. Volunteers are needed for our booth this year--coordinator(s), persons to set up the TNPS booth and to man the booth. Contact Scott Gunn, 276 Stewart's Ferry Pike, Apt. 3, Nashville, TN 37214; (615)742-6551 (W), (615)885-4152 (H).

MARCH
CALENDAR OF EVENTS

- March 19 ASSOCIATION OF AMATEUR FIELD BOTANIST-- ANNUAL MEETING. 9:00 a.m. at the Chattanooga Nature Center, Route 4, Garden Road, Chattanooga, TN 37409; (615)821-1160.
- March 19 THE HIDDEN WORLD OF CLOSE-UP NATURE PHOTOGRAPHY, 10:00 a.m. to 4:00 p.m., \$25 fee. Callaway Gardens, Pine Mountain, Georgia 31822; (404)663-2281.
- March 23 SPRING WILDFLOWER SHOW 7:30 p.m. to 9:00 p.m. Free admission, but reservations are required. Led by Nature Center Staff members Sandy Bivens and Deb Beazley. Warner Park Nature Center, 7311 Hwy. 100, Nashville, TN 37221; (615)352-6299.
- March 26 LANDSCAPING WITH NATIVE PLANTS 10:00 a.m. to 3:00 p.m. Spring is the time for planting so learn what to plant where. This workshop will include a lecture and discussion of native annuals, perennials, shrubs, and trees suitable for the Mid-South. Participants can purchase native plants. \$25/Members, \$30/Non-Members. Lichterman Nature Center, 5992 Quince Road, Memphis, TN 38119; (901)767-7322.
- March 26 A SPRING WILDFLOWER WALK ON THE BEAUTIFUL RIVER BLUFF TRAIL AT NORRIS--TVA Natural Area at Norris Dam. 10:00 a.m. to 12 noon. This is a joint field trip with the Ijams Audubon Nature Center, TVA and Norris Dam State Park. Meet at the TVA Interpretive Center (or the Lenior Museum Parking Lot) on Highway 441 below Norris Dam. For further information, contact: Judith Bartlow at (615)632-1592; or Ijams Audubon Nature Center, 2915 Island Home Avenue, Knoxville, TN 37920, or call (615)577-4717.
- March 26 WILDFLOWER HIKES 9:00 a.m. to 12 noon and 2:00 p.m. to 5:00 p.m. Free admission, but reservations are required. Hikes led by Nature Center Staff members Sandy Bivens and Deb Beazley. Warner Park Nature Center, 7311 Hwy. 100, Nashville, TN 37221; (615) 352-6299.
- March 27 MEMPHIS BOTANIC GARDEN WILD FLOWER SOCIETY'S OPEN GARDEN 1:00 p.m. to 5:00 p.m. Come and take a leisurely stroll through the cool and beautiful Wild Flower Garden at the Memphis Botanic Garden. Members of the Wild Flower Society will be stationed in the garden to identify plants, answer questions and lead informal tours. Sponsored by the Memphis Botanic Garden Foundation and the Wild Flower Society. FREE admission. Memphis Botanic Garden, 750 Cherry Road, Memphis, TN 38117; (901)685-1566.

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Potpourri

WILDFLOWER WALK LEADERS NEEDED: Frozen Head State Natural Area is seeking persons to lead a guided wildflower walk on the following dates: April 17, April 23, April 24 and April 30. All at 2:00 p.m. If interested, contact David Engebretson, Park Ranger/Naturalist, Frozen Head State Natural Area, Route 2, Box 1302, Wartburg, TN 37887; (615)346-3318.

THE WILD FLOWER OF THE YEAR PROJECT, co-sponsored by The North Carolina Botanical Garden and the Garden Club of North Carolina, Inc., is featuring black-eyed Susans (Rudbeckia fulgida sullivantii) for 1988. For free seeds and cultural information, send a business-size #10 SASE to: Wild Flower of the Year, North Carolina Botanical Garden, UNC-Totten Center 3375, Chapel Hill, NC 27599-3375.

SLIDES NEEDED. The Jean Baxter Slide Library is still in search of the following slides: Citrus sinensis-Orange Blossum; Rosa laevigata-Prairie Wild Rose; Philadelphus lewisii-Syringa; Magnolia grandiflora-Large Magnolia; Crataegus mollis-Hawthorn; Yucca elata-Tall Yucca; Dianthus caryophyllus-Red Carnation; Castilleja linariaefolia-Indian Paintbrush; Lupinus subcarnosus-Texas Blue Bonnet; and Mahonia aquifolium-Oregon Grape. Either a portrait or close-up, or both, would do. Please call (617)237-4924, or write to: New England Wild Flower Society, Garden in the Woods, Hemenway Road, Framingham, MA 01701.

BOTANIZING ACROSS OREGON. Join the Oregon Chapter of The Nature Conservancy, July 24 to 30, 1988, for a botany field trip across Oregon that will include the newly established Columbia River Gorge Scenic Area, the Cascade mountains, central Oregon's high desert, immense Malheur National Wildlife Refuge and spectacular Steens Mountain in southeastern Oregon. Although the emphasis of this expedition is botany, we will also enjoy the excellent birding, varied geology, and other natural history topics. By late July, the high meadows of Steens Mountain are free of snow, and we will spend two days investigating Steens' diverse plant life between 4,000 and 9,700 feet. Accommodations will include three nights at the historic Frenchglen Hotel, situated at the base of Steens and adjacent to Malheur Refuge. Leader, Mike Houck, is a reknowned Oregon Naturalist. For details, write to: Oregon Botany Expedition, The Nature Conservancy, 1205 N.W. 25th Avenue, Portland, Oregon 97210; (503)228-9561.

ARTICLES OF INTEREST: "A Catalog Review: Searching for Wildflowers", by Peter Loewer, in the February 1988 issue of American Horticulturist, Volume 67, Number 2, pps. 10-13. Loewer lists a baker's dozen of wildflower nurseries, and it includes our own Natural Gardens, Sunlight Gardens, and Native Gardens located here in Tennessee! An issue of this publication may be obtained by sending \$2.50 to: American Horticulturist, P.O. Box 0105, Mount Vernon, VA 22121.

The March 1988 issue of SOUTHERN LIVING (Volume 23, No. 3) p. 95 has an article entitled "A Miniature Garden of Wildflowers". This is an interesting article on "dish gardening" with wildflowers. It recommends several kinds of wildflowers to use, and how to prepare the planter. This issue is probably still at the newsstands, but if you miss it, I am requesting written permission to reprint it in a future issue of the Newsletter.



THE CATALOG OF CATALOGS. The National Gardening Association's 1988 Directory of Seeds & Nursery Catalogs lists 400 mail-order sources of vegetable seeds, fruit trees, herbs, wildflowers and gardening products. Here you'll discover: The Tomato Seed Company, with 250 tomato varieties; Ozark Hardware & Handle Company, carrying more tool handles than you can imagine; The Living Tree Center, specializing in heirloom apples and hundreds more! To help you find the company you need, entries are listed in categories: General vegetables, Heirloom, Oriental, General Fruit, Apples, Tropical Fruit and so on. To order, send \$4.00 (NGA members, \$3.00) to: CATALOGS, National Gardening Association, 180 Flynn Avenue, Burlington, Vermont 05401.

LADY BIRD JOHNSON celebrated her 75th birthday in November, 1987. The National Wildflower Research Center which she founded five years ago for the study of our native wildflower species are inviting the country to honor Mrs. Johnson during

her jubilee year. The focus of the Jubilee Year will be a three day celebration from April 28 through 30, 1988 in Washington, DC, to say thank you to Mrs. Johnson through a special award, concerts, art exhibits, and events in her honor. Many of these events will benefit the National Wildflower Research Center. Mrs. Johnson and Carleton B. Lees have co-authored "Wildflowers Across America", to be published in 1988, benefitting the National Wildflower Research Center. (Reprinted from the National Council of State Garden Clubs, Inc., The Columbine, Operation Wildflower, January, 1988, Vol. 8, No. 1, p. 7.)

HIGHWAYS TO BLOOM WITH NATIVE FLOWERS. Wild flowers have become firmly planted in the nation's highway law. As mandated by Congress, the Federal Highway Administration now requires that 25 cents of every \$100 spent on landscaping along roads receiving federal funds be used to plant native wildflowers. The wild flower rule was spearheaded in Congress by Senator Lloyd Bentsen of Texas, who says that his state's 50-year experience with planting native wild flowers shows that they save taxpayers money as well as beautify highways. Wild flowers substantially reduce the need for mowing and watering and seem to deter people from littering, Texas has found. States can obtain a waiver from the new rule if wild flowers cannot be grown satisfactorily; if there is little room for planting, as along some urban roads; or if highway right-of-ways are already used for agricultural planting. (National Wildlife, January/February 1988, p. 28.)

RARE SPECIES FOUND IN UNEXPECTED PLACES! Habitat for endangered species is by no means limited to isolated, exotic locales. The Nature Conservancy's National Natural Heritage Program, a computerized survey of flora and fauna nationwide, has turned up rare specimens in some pretty strange places. Some black-crowned night herons have established a rookery in the middle of an Illinois railroad yard. And endangered piping plovers can be found on the aprons of runways at Kennedy International Airport in New York. Much of the world's only remaining population of the sand plain gerardia, a flowering herb, is found in historic Massachusetts cemeteries on Cape Cod, Nantucket and Martha's Vineyard. But perhaps the most 'privileged' of plants is a succulent known as the stone crop, found only on the coastal cliffs of Laguna Beach, California, in the backyards of some very wealthy people. (National Wildlife, January/February 1988, p. 28.)

ANNUAL APPEAL: CENTER FOR PLANT CONSERVATION. The Center for Plant Conservation is a private non-profit organization dedicated to conserving rare and endangered plants of the United States through cultivation and research. The Center is the leading private organization dedicated to plant conservation in botanic gardens and seed banks. Collections at their 19 participating botanical gardens and arboreta (coordinated by the National Office in Jamaica Plain, Massachusetts) now include more than 200 rare and endangered species. They have a computerized database with more than 5000 listings of endangered and threatened species, which is the basic tool for their conservation work and its design is being shared with other conservation and environmental organizations around the world. Future plans include sponsoring the first national rare-plants genetics conference. All Annual Appeal donations to the Center will be matched by a special grant from a national foundation. Your gift will help them to continue their success and growth. \$500 supports the cultivation of one species in the Center's living collections for one year. \$100 enables botanical garden staff to collect seed from one species to begin its propagation in cultivation. \$50 allows the Center to track propagation records for ten species for one year. Contributions are tax-deductible, and contributors will receive Plant Conservation, the Center's quarterly newsletter. Send donations to: Center for Plant Conservation, 125 Arborway, Jamaica Plain, MA 02130-3520.

REDISCOVERY OF THE ROCK GOLDENROD IN TENNESSEE

Edward W. Chester, Department of Biology, Austin Peay State University, Clarksville, Tennessee

The current list of rare, threatened and endangered plants of Tennessee compiled by the Ecological Services Division, Department of Conservation, gives 52 species that have not been seen within the state for at least 20 years. Among these possibly extirpated species is the rock goldenrod (Solidago rupestris Rafinesque).

The Tennessee history for this species is limited. Four herbarium sheets in The University of Tennessee Herbarium were collected by Augustin Gattinger in Davidson County. One is dated August, 1886, one August 27, 1886, and two are not dated. Specific collection sites are not given, other than "vicinity of Nashville" and "bluffs", banks of the Cumberland River, Nashville." Even though numerous outstanding field botanists have plied the Cumberland River and perused the slopes, banks, and bluffs around Nashville over the past 90 years, the rock goldenrod has not been collected again. Of course expansion and impoundment may have destroyed suitable habitats and the species may have been overlooked due to its similarity to other members of this taxonomically difficult genus.

On September 13, 1947, Alfred and Edward Clebsch found S. rupestris in Montgomery County, two miles west of Clarksville, and about 65 river miles downstream (northwest) of Nashville. This observation, 40 years ago, was apparently the last for the state; their specimen is also in the UTK Herbarium.

For a number of years, I have sought the rock goldenrod along the banks of the lower Cumberland River and assumed that my failures were due to raised water levels as a result of Barkley Dam, which impounded this section in 1966. However, on September 13, 1987, and with the help of Bill Shelton and Mark Clark (naturalist and archaeologist respectively, both of Clarksville), I gained access to bluffs just west of Clarksville that I had not visited before. Known as Red Rock or Red Paint Bluffs, this historic site was used as a landmark by Thomas Hutchins, a British Officer who surveyed the Cumberland River in 1768. Even Andre Michaux, the French botanist, mentioned passing them on January 11, 1796 in his journey down the Cumberland!

The bluffs slope precipitously, either to the edge of the water or to narrow ledges where travel is difficult as a result of dense thickets, fallen trees, or rock-dirt slides. However, along these weedy ledges, just above the high-water level, several clumps of Solidago rupestris were observed. Bank erosion and slides have probably destroyed some colonies over the years. I collected two stems (without damaging rootstocks!); one was placed in the herbarium of the New York Botanical Garden where Dr. Arthur Cronquist kindly verified my identification; and the other is in the herbarium of Austin Peay State University.

Further field studies westward (downstream) into Stewart County and then northward into Trigg and Lyon Counties, Kentucky, failed to reveal other specimens. However, numerous Cumberland River bluffs in Cheatham and west Davidson County might provide yet other fertile areas for searching. Thus, while we now know that the rock goldenrod is not extirpated in Tennessee, it must be considered endangered.

THE EASTERN NATIVE PLANT ALLIANCE

BACKGROUND. The decision to form the Eastern Native Plant Alliance grew out of a shared concern for native plant conservation, intensified by mounting public interest in the landscape use of native plants. The need was evident for public gardens, native plant societies, and other organizations working with native plants to present a consistent conservation message to the public. Since 1985, a small group of interested people, from a variety of organizations in the Eastern United States has met yearly as a steering committee to develop the outline of an organization that would accomplish this goal.

PURPOSE. As proposed by the steering committee, ENPA will unite organizations that promote and demonstrate native plant conservation through programs such as public education, display, cultivation, preservation of natural vegetation, and research. Membership will be open to institutions and organizations in the eastern United States and southeastern Canada, specifically in the Eastern Deciduous Forest and Coastal Plain Provinces defined by Gleason and Cronquist in The Natural Geography of Plants. Representatives of member organizations will meet once a year, initially in the summer, for planned programs and informal discussion.

The broad goal of ENPA is to provide a forum for sharing ideas and information, and thus to stimulate more effective programs in all areas related to native plant conservation. The specific issues to be addressed will be determined by the interests and needs of members. One, the development of effective channels of communication to the public, will be part of the first meeting's program. Others that have been suggested include various aspects of the ethics of wild collection, including plant rescue or salvage, and the role of the development of cultivars for garden use.

The Steering Committee members are: Dick Bir, Extension Horticulture Specialist, Mountain Horticultural Crops Research and Extension Center, NCSU; Thomas Buchter, Executive Director, New England Wild Flower Society; Cole Burrell, Curator of Plant Collections, Minnesota Landscape Arboretum; Robert Hebb, Director, Lewis Ginter Botanical Garden; Richard Lighty, Director, Mt. Cuba Center for the Study of Piedmont Flora; F.M. Mooberry, Coordinator of Horticulture, Brandywine Conservancy; Ken Moore, Assistant Director, North Carolina Botanical Garden; Mary Pockman, President, Virginia Wildflower Preservation Society; Claire Sawyers, Administrative Assistant, Mt. Cuba Center for the Study of Piedmont Flora; Janet Urban, Director, Bowman's Hill State Wildflower Preserve; and Chris Wells, Superintendent, Crosby Arboretum.

An organizational meeting will be held July 23-24, 1988, in Fletcher, North Carolina, at the Mountain Horticultural Crops Research and Extension Center of North Carolina State University. Invitations are being extended to arboreta, botanic gardens, native plant societies, and other public and non-profit organizations that are actively engaged in native plant conservation in eastern and central North America. This meeting will introduce ENPA and lay the groundwork for a formal, substantive meeting in 1989. The proposed program will include: an introduction of ENPA and its potential value; presentations and discussion on communication with the public, a widely-shared concern; and an open discussion of interest in ENPA, needs it can meet, and plans for 1989. If you are interested in the Eastern Native Plant Alliance and want more information, or are interested in joining ENPA and would probably attend the organizational meeting, or have certain subjects of concern, write to: Eastern Native Plant Alliance, New England Wild Flower Society, Garden in the Woods, Hemenway Road, Framingham, MA 01701 no later than April 1, 1988.



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Remember, the posters are **POSTPAID**. We hope to have a few of these on hand at the Wildflower Pilgrimage.

AMERICAN HORTICULTURAL SOCIETY 43RD ANNUAL MEETING

Atlanta, Georgia

April 14-16, 1988

Tour magnificent private gardens and see a variety of Southern gardening styles. Enjoy educational sessions that will expand your gardening expertise and provide you with new inspiration. Learn about the latest developments in horticultural research from experts associated with the Biosphere II Project in Arizona. Wander through the beautifully landscaped grounds of the Atlanta Historical Society and the Atlanta Botanical Garden and delight in Georgia's historical and horticultural treasures. Savor the magic of Callaway Gardens. Enhance your own garden with plant purchases from visits to Goodness Grows Nursery and other noted garden centers. Registration must be received by March 23, 1988! For further information, write to: Meeting Registrar, American Horticultural Society, P.O. Box 0105, Mount Vernon, VA 22121.

"A CALLAWAY GETAWAY"--AHS POST MEETING TOUR. April 17-20, 1988. Spend a leisurely three days enjoying the gracious hospitality that is offered at the Callaway Gardens Resort and explore the 2500 acres of tranquil lakes, scenic trails, and lush gardens at your own pace. Wander through woodlands graced with a stunning azalea collection featuring the rare prunifolia azalea, the richest holly collection of the world, and special gardens cultivated with perennials, bulbs, annuals, and chrysanthemums. In addition to the gardens for which Callaway is famous, there are four superbly maintained golf courses, tennis and racquetball courts, a lake that offers both bass and bream fishing, sailing, swimming and sunbathing. Callaway really does have something for everyone, just as its founder, Cason Callaway, intended! The three-day package is \$330 per person, double occupancy, and includes three nights' accommodation, the modified American plan (breakfast and dinner), and a \$50 tax deductible contribution to AHS. Single rates available upon request. Write to: Margaret Burke, AHS Special Events, P.O. Box 0105, Mount Vernon, VA 22121 for more information and reservation package.

TENNESSEE NATIVE PLANT SOCIETY
CALENDAR OF EVENTS 1988

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|-------------------------------|---|------------|---|
| January-March | <u>WINTER 1988 AT CALLAWAY GARDENS</u> includes Sibley Center Tours, Walk in the Winter Woods, Horticulture Nature Topics, Bike Trail Walks, Astronomy Days, Vegetable Garden Walk, Bird Watching Spring Walks, etc. Callaway Gardens, Ida Carson Callaway Foundation, Pine Mountain, GA 31822; (404)663-2281. | March 13 | <u>GARDENING WORKSHOP--Garden Maintenance II: Pests and Diseases--Recognizing and Treating.</u> 1:30 p.m. to 4:30 p.m. \$10 fee. The workshop will have informational handouts and hands-on experience (as weather permits). Contact: Nancy Rennie, Ijams Audubon Nature Center, 2915 Island Home Avenue, Knoxville, TN 37920; (615)577-4717. |
| January 8-10 | <u>CALLAWAY GARDENS SOUTHERN PERENNIALS SYMPOSIUM.</u> Contact: Mary Crain Penniman, Symposium Coordinator, Callaway Gardens, Ida Carson Callaway Foundation, Pine Mountain, GA 31822; (404)663-5103. | March 19 | <u>ASSOCIATION OF AMATEUR FIELD BOTANISTS ANNUAL MEETING.</u> 9:00 a.m. at the Chattanooga Nature Center, Route 4 Garden Road, Chattanooga, TN 37409; (615)821-1160. |
| January 13-16 | <u>RESTORING THE EARTH-1988 CONFERENCE</u> at the University of California, Berkeley. Information and a conference summary are available from: Restoring the Earth Conference, 1713 C Martin Luther King Jr. Way, Berkeley, CA 94709; (415)843-2645. | March 19 | <u>THE HIDDEN WORLD OF CLOSE-UP NATURE PHOTOGRAPHY,</u> 10:00 a.m. to 4:00 p.m. \$25 fee. Callaway Gardens, Ida Carson Callaway Foundation, Pine Mountain, GA 31822; (404)663-2281. |
| January 27 | <u>TREES IN WINTER.</u> Tree identification can be difficult at this time of year, but this class will help you to use such characteristics as buds, leaf scars, bark, and to appreciate trees in winter. 9:00 a.m. to 11:00 a.m. and 1:00 p.m. to 3:00 p.m. Registration opens January 19. Contact: Sandy Bivens or Deb Beazley, Warner Park Nature Center, 7311 Hwy. 100, Nashville, TN 37221; (615)352-6299. | March 23 | <u>SPRING WILDFLOWER SHOW.</u> 7:30 p.m. to 9:00 p.m. Free admission, but reservations are required. Led by Nature Center Staff members Sandy Bivens and Deb Beazley. Warner Park Nature Center, 7311 Hwy. 100, Nashville, TN 37221; (615)352-6299. |
| February 4 (for 3 to 4 weeks) | <u>SOUTHERN APPALACHIAN HIGHLANDS CONSERVANCY EXHIBIT</u> of Roan, featuring photography by Ed Schell, at the Carroll Reece Museum, East Tennessee State University, Johnson City, TN. | March 26 | <u>LANDSCAPING WITH NATIVE PLANTS.</u> 10:00 a.m. to 3:00 p.m. Spring is the time for planting so learn what to plant where. This workshop will include a lecture and discussion of native annuals, perennials, shrubs, and trees suitable for Mid-South. Participants can purchase native plants. \$25/Members, \$30/Non-Members. Lichterman Nature Center, 5992 Quince Road, Memphis, TN 38119; (901)767-7322. |
| February 11 | <u>PERENNIAL SYMPOSIUM,</u> Birmingham Botanical Gardens, 9:30 a.m. to 3:30 p.m. Fee \$25. Red Mountain Garden Club. Contact: Mrs. L. Greer, 3005 Brookwood Road, Birmingham, AL 35223. | March 26 | <u>A SPRING WILDFLOWER WALK ON THE BEAUTIFUL RIVER BLUFF TRAIL AT NORRIS.</u> TVA Natural Area at Norris Dam. 10:00 a.m. to 12 noon. This is a joint field trip with the Ijams Audubon Nature Center, TVA and Norris Dam State Park. Meet at the TVA Interpretive Center (or the Lenior Museum Parking Lot) on Hwy. 441 below Norris Dam. Contact: Judith Bartlow at (615)632-1592; or Ijams Audubon Nature Center, 2915 Island Home Avenue, Knoxville, TN 37920; (615)577-4717. |
| February 17 | <u>WILDLIFE IN WINTER.</u> 7:00 p.m. to 8:30 p.m. Registration opens February 3. Very few of our wild mammals sleep the winter away. Come to this evening's slide show to learn how wildlife in the Warner Parks adapts to this harsh season. Contact: Sandy Bivens or Deb Beazley, Warner Park Nature Center, 7311 Hwy. 100, Nashville, TN 37221; (615)352-6299. | March 26 | <u>WILDFLOWER HIKES.</u> 9:00 a.m. to 12 noon and 2:00 p.m. to 5:00 p.m. Free admission, but reservations are required. Hikes led by Nature Center Staff members Sandy Bivens and Deb Beazley, Warner Park Nature Center, 7311 Hwy. 100, Nashville, TN 37221; (615)352-6299. |
| February 21 | <u>GARDENING WORKSHOP--Preparation & Planting Soils--What They Are and How To Make Clay Into Gardening Loam (Composting).</u> 1:30 p.m. to 4:30 p.m. \$10 fee. The workshop will have informational handouts and there will be an opportunity for some hands on experience (as weather permits). Ijams offers a rebate on the workshop of \$2.00 for each hour volunteered in the gardens--this spring and summer, with a maximum of \$8.00. Contact: Nancy Rennie, Ijams Audubon Nature Center, 2915 Island Home Avenue, Knoxville, TN 37920; (615)577-4717. | March 27 | <u>MEMPHIS BOTANIC GARDEN WILD FLOWER SOCIETY'S OPEN GARDEN.</u> 1:00 p.m. to 5:00 p.m. Come and take a leisurely stroll through the cool and beautiful Wild Flower Garden at the Memphis Botanic Garden. Members of the Wild Flower Society will be stationed in the garden to identify plants, answer questions and lead informal tours. Sponsored by the Memphis Botanic Garden Foundation and the Wild Flower Society. FREE admission. Memphis Botanic Garden, 750 Cherry Road, Memphis, TN 38117; (901)685-1566. |
| February 27 | <u>WOODY PLANTS IN WINTER: INFORMATION AND IDENTIFICATION.</u> 10:00 a.m. to 1:00 p.m. Fee: \$1.00 Members, \$2.00 Non-Members. Instructor: Jimmy Groton. Contact: Ijams Audubon Nature Center, 2915 Island Home Avenue, Knoxville, TN 37920; (615)577-4717. | April 1-30 | <u>WILDFLOWER WALKS AT BAYS MOUNTAIN PARK,</u> Tuesday thru Friday from 2:00 p.m. to 5:00 p.m. during April. For groups of 5 or more, reservations are required. Bays Mountain Park, Nature Interpretive Center, Route 4, Kingsport, TN 37660; Marion S. Dulaney; (615)229-9947. |
| February 27 | <u>HONEYSUCKLE PULL AND KUOZU KICK!</u> Pull the most honeysuckle and kudzu and win prizes! 10:00 a.m. to 12 noon. Contact: Lichterman Nature Center, 4992 Quince, Memphis, TN 38119; (901)767-7322. | April-May | <u>1988 SPRING DISCOVERY PROGRAMS AT CALLAWAY GARDENS</u> includes Sibley Center Tours, Spring Walks, Azalea Stroll, Chapel Stroll, Birdwatching, Vegetable Garden Walk, Meadowlark Stroll, Astronomy, Chat With Naturalists and Horticulturists, Forest Hikes, etc. Callaway Gardens, Ida Carson Callaway Foundation, Pine Mountain GA 31822; (404)663-2281. |
| February 27 | <u>MEEMAN-SHELBY STATE PARK--WINTER HIKE.</u> A great 3-mile hike on the Woodland Trail guaranteed to shake your case of cabin fever. Meet at 1:00 p.m. at the Visitors Center. Contact: Gary McEntire, Meeman-Shelby State Park, Millington, TN 38053-5099; (901)876-5215. | April 2 | <u>FIELD TRIP TO OWL'S HILL.</u> Field trip to see early spring wildflowers at Owl's Hill, Cheekwood's natural area in Williamson County. Meet at Cheekwood. Wear sturdy shoes and bring a sack lunch. Drinks will be provided. Will last from 9:00 a.m. until 1:00 p.m. \$10 fee, and reservations are required. Contact: Cheekwood Botanical Gardens & Fine Arts Center, Forrest Park Drive, Nashville, TN 37205; (615)356-8676. |
| March 3 | <u>THE WILDFLOWER MEADOW: A GARDENER'S DELIGHT.</u> 10:00 a.m. to 3:00 p.m. \$25 fee. Callaway Gardens, Ida Carson Callaway Foundation, Pine Mountain, GA 31822; (404)663-2281. | April 2 | <u>WILDFLOWER HIKES.</u> 9:00 a.m. to 12 noon, and 2:00 p.m. to 5:00 p.m. Free admission, but reservations are required. Led by Nature Center Staff members Sandy Bivens and Deb Beazley. Warner Park Nature Center, 7311 Hwy. 100, Nashville, TN 37221; (615)352-6299. |
| March 5 | <u>FAMILY NATURE DAY.</u> 10:00 a.m. to 2:00 p.m. \$2.50 per person; Callaway Gardens, Ida Carson Callaway Foundation, Pine Mountain, GA 31822; (404)663-2281. | April 2 | <u>WILDFLOWER WALK AT BAYS MOUNTAIN PARK.</u> 10:00 a.m. to 12 noon. Contact: Marion S. DeJaney, Bays Mountain Park, Nature Interpretive Center, Route 4, Kingsport, TN 37664; (615)229-9947. |
| March 5 | <u>MEEMAN-SHELBY STATE PARK--WILDLIFE MANAGEMENT AREA TOURS.</u> Barry Summers of the Tennessee Wildlife Resources Agency will be conducting tours of the area at 12:30 p.m., 2:00 p.m. and 3:30 p.m. The tour will allow visitors to view wildlife food plots, wetlands, and more. Contact: Gary McEntire, Meeman-Shelby State Park, Millington, TN 38052-5099; (901)876-5215. | | |
| March 6 | <u>GARDENING WORKSHOP--Gardening Maintenance I--Pruning, Weeding, Watering and Fertilizing.</u> 1:30 p.m. to 4:30 p.m. \$10 fee. The workshop will have informational handouts and on-hands experience. Contact: Nancy Rennie, Ijams Audubon Nature Center, 2915 Island Home Avenue, Knoxville, TN 37920; (615)577-4717. | | |

- April 5 AZALEAS: BEHIND OUR SCENES AND YOURS. 10:00 a.m. to 3:00 p.m., \$20 fee. Callaway Gardens, Ida Carson Callaway Foundation, Pine Mountain, GA 31822; (404)663-2281.
- April 5 WILDFLOWER HIKE. 9:00 a.m. to 12 noon. Free admission, but reservations are required. Hike led by Sandy Bivens and Deb Beazley. Warner Park Nature Center, 7311 Hwy. 100, Nashville, TN 37221; (615)352-6299.
- April 7 AZALEAS, RHODODENDRONS, AND THEIR COMPANIONS. 10:00 a.m. to 3:00 p.m. \$20 fee. Callaway Gardens, Ida Carson Callaway Foundation, Pine Mountain, GA 31822; (404)663-2281.
- April 8-10 MEMPHIS BOTANIC GARDEN 1988 ANNUAL SPRING PLANT SALE. April 8 and 9, 9:00 a.m. to 6:00 p.m. and April 10, 11:00 a.m. to 4:00 p.m. Sponsored by the Memphis Botanic Garden Foundation. This annual plant sale will feature a fine selection of native plants, wildflowers and perennials. Members of the Wild Flower Society will be on hand to answer questions and help with plant selection. FREE admission. Goldsmith Civic Garden Center, 750 Cherry Road, Memphis, TN 38117; (901)685-1566.
- April 9 NINTH ANNUAL ENVIRONMENTAL EDUCATION WORKSHOP "NATURE NEARBY". Session "A"--School Grounds Techniques 9:00 a.m. to 12 noon; includes: Introduction--Children and Nature, Sense Awareness Activities, Observation and Questioning, Nature's Connections, Discussion--Nature Study in the Curriculum, and Conservation Education Source Materials. Session "B"--Field Trip Technique 1:00 p.m. to 4:00 p.m. Includes: Introduction--Outdoor Education Using Natural Areas, Examples--Forest Walk, Examples--Creek Exploration, and Discussion--Field Ecological Studies. Participants should expect to get muddy at the creek. Wear old sneakers and jeans. For both sessions, be sure to wear clothing suitable for the outdoors, regardless of the weather. The workshop is free and open to all interested people. Contact: Marty Silver, Park Naturalist, Warriors' Path State Park, P.O. Box 5062, Kingsport, TN 37663; (615)239-8531.
- April 9 WILFLOWER WALK AT BAYS MOUNTAIN PARK, 10:00 a.m. to 12 noon, Nature Interpretive Center, Route 4, Kingsport, TN 37660. Contact: Marion S. Oulaney; (615)229-9947.
- April 9 LAOY FINGER BLUFF WILFLOWER WALK--TVA Naural Area near Linden, TN on Kentucky Reservoir. 10:00 a.m. to 1:00 p.m. Meet at Perry County courthouse in Linden, TN at 10:00 a.m. Sponsored by TVA. Contact: Judith Bartlow; (615)632-1592.
- April 9 ANNUAL WILDFLOWER WALK AT IJAMS AUOUBON NATURE CENTER to see its beautiful wildflower displays. Contact: Ijams Audubon Nature Center, 2915 Island Home Avenue, Knoxville, TN 37920; (615)577-4717.
- April 9 WILDFLOWER WALK, 2:00 p.m., conducted by David Engebretson, Park Ranger. Plant identification and pollination will be discussed during the walk. Meet at Shelter "C". Frozen Head State Natural Area, Route 2 Box 1302, Wartburg, TN 37887; (615)346-3318.
- April 10 TNPS FIELD TRIP--SHORT SPRINGS AREA, COFFEE COUNTY with AFBees, TTA, and the Tullahoma Historical Society. Leader: Oennls Horn; (615)455-5742.
- April 13 WILFLOWER HIKE 9:00 a.m. to 12 noon. Free admission, but reservations are required. Led by Sandy Bivens and Deb Beazley. Warner Park Nature Center, 7311 Hwy. 100, Nashville, TN 37221; (615)352-6299.
- April 13 GUIDEO TOUR OF THREE OF KNOXVILLE'S PRETTIEST PUBLIC GARDENS: BLOUNT MANSION, CRESCENT BEND AND IJAMS AUOUBON NATURE CENTER. 10:00 a.m. to 12 noon. \$10 fee. Pre-registration required! Bus leaves from Western Plaza. For information, call (615)525-2376 (Blount Mansion); (615)637-3163 (Crescent Bend); or (615)577-4717 (Ijams Audubon Nature Ctr.)
- April 14-16 AMERICAN HORTICULTURAL SOCIETY 43RD ANNUAL MEETING--Atlanta, GA. For information, write to: American Horticultural Society, Box 0105, Mount Vernon, VA 22121.
- April 15 WILDFLOWER SLIOW SHOW 7:30 p.m., conducted by Dr. A.J. Sharp, U.T. Professor. Origin and geographical distribution of the Southern Appalachian Flora. Park Amphitheater. Frozen Head State Natural Area, Route 2 Box 1302, Wartburg, TN 37887; (615)346-8818.
- April 16 KNOXVILLE GARDEN CLUB WILFLOWER AND PERENNIAL PLANT SALE. 9:30 a.m. to 3:00 p.m. Sequoia Hills-Talahi Park, will be selling annuals, perennials, wildflowers, shrubs, crafts and gardening accessories. Contact: Mrs. Jackie Lane; (615)584-0996.
- April 16 TNPS FIELD TRIP--SPRING CEDAR GLADE FLORA, Maury County with AFBees. Contact: Nancy and Harold Scott, (615)388-0850.
- April 16 SPRING FESTIVAL AT STANOING STONE STATE PARK. The day will be filled with wildflower walks, an early morning bird walk, a cave tour, slide program, night hike, and more! Bring the family and a picnic and spend the day. Contact: Candy Swan, Standing Stone State Park, Livingston, TN 38570; (615)823-4441.
- April 16 WHITES CREEK WILDFLOWER WALK--TVA Natural Area on Watts Bar Reservoir south of Rockwood. 10:00 a.m. to 1:00 p.m. Meet at Big Turtle Park in Oak Ridge at 9:00 a.m. or at the trailhead at 10:00 a.m. Sponsored by TVA and Tennessee Citizens for Wilderness Planning. Contact: Judith Bartlow; (615)632-1592.
- April 16 WILFLOWER WALK, 2:00 p.m., conducted by Duane Yeary, Park Naturalist. Plant identification will be discussed during this walk. Meet at Picnic Shelter "C". Frozen Head State Natural Area, Rt. 2 Box 1302, Wartburg, TN 37887; (615)346-3318.
- April 16 SPRING BIRD WALK, 8:00 a.m., conducted by Jim and Betty Reid Campbell of Oak Ridge. Bird habitat, identification and song will be discussed during this walk. Park Office. Frozen Head State Natural Area, Route 2 Box 1302, Wartburg, TN 37887; (615)346-3318.
- April 16 WILFLOWER WALK AT BAYS MOUNTAIN PARK, 10:00 a.m. to 12 noon, Nature Interpretive Center, Route 4, Kingsport, TN 37660; contact: Marion S. Oulaney; (615)229-9947.
- April 17 WILFLOWER WALK, 2:00 p.m. Hike leader to be announced. Frozen Head State Natural Area, Route 2 Box 1302, Wartburg, TN 37887; (615)346-3318.
- April 17-20 "A CALLAWAY GETAWAY"--AHS POST MEETING TOUR. Write to: Margaret Burke, AHS Special Events, P.O. Box 0105, Mount Vernon, VA 22121 for more information and reservation package.
- April 17-23 FIFTEENTH ANNUAL SPRING FLOWER HIKING WEEK, PEPPERTREE FONTANA VILLAGE, FONTANA DAM, NORTH CAROLINA. Includes slide shows; hikes amid the flowers and rushing waters of Twenty Mile Creek in the Great Smoky Mountains National Park; hikes in the Joyce Kilmer Memorial Forest; picnics; pictures and stories of Hazel Creek in the early 1900's by Mildred Johnson; boat trip; and other activities. For further information, write to: Peppertree Fontana Village, Fontana Dam, NC; (704)498-2211 or Toll-free 1-800-438-8080 outside of North Carolina.
- April 18 WILFLOWER WALK AT BAYS MOUNTAIN PARK, 9:00 a.m. to 2:00 p.m., Nature Interpretive Center, Route 4, Kingsport, TN 37660. RESERVATIONS SUGGESTED. Contact: Marion S. Oulaney; (615)229-9947.
- April 19-24 WILDFLOWER WEEK AT CHEEKWOOD. Wildflower week at Cheekwood will feature daily tours of the Howe Garden of Native Plants at 10:00 a.m. and 2:00 p.m. and an ongoing sale of wildflowers. Tours are open to the public. Admission to Cheekwood is \$2.50 for adults, \$1.00 for students, and 50c for children 7 years old and under. Contact: Jenny Andrews, Wildflower Horticulturist, Cheekwood Botanical Gardens, Forrest Park Drive, Nashville, TN 37205; (615)356-3306.
- April 20 FLORAL DESIGN FROM NATURE, 10:00 a.m. to 3:00 p.m. \$35 fee. Callaway Gardens, Ida Carson Callaway Foundation, Pine Mountain, GA 31822; (404)663-2281.
- April 22 WILFLOWER SLIOW SHOW, 7:30 p.m., conducted by David Engebretson, Park Ranger. Native species of Frozen Head will be featured. Park Amphitheater. Frozen Head State Natural Area, Route 2, Box 1302, Wartburg, TN 37887; (615)346-3318.
- April 22-23 CEDAR OF LEBANON WILDFLOWER PILGRIMAGE. Cedars of Lebanon State Park has approximately 8 miles of hiking trails that are easy to moderate in difficulty. Many assorted wildflowers can be seen along these trails. Cedars is noted for having a variety of endemics located here among the more common wildflowers. Other activities are too numerous to mention. No charge for these programs. Contact: Mr. Sandy Suddarth, Cedars of Lebanon State Park, Rt. 6 Box 220, Lebanon, TN 37087; (615)444-9394.
- April 22-24 WARRIORS' PATH STATE PARK NINTH ANNUAL SPRING FESTIVAL. This year's festival is entitled "Reading the Season", which includes seminars by professionals, walks led by trained naturalists; topics on natural history of the park, bird life, spring botany, wildlife signs, geology, outdoor photography, stream life, and astronomy. Open to all, rain or shine. Marty Silver, Park Naturalist, Warrior's Path State Park, P.D. Box 5026, Kingsport, TN 37663; (615)239-8531.

- April 23 PRIVATE WILDFLOWER GARDEN FIELD TRIP 9:00 a.m. to 10:00 a.m. with a CHILDREN'S NATURE WALK at 11:00 a.m.; and a workshop on "A Cutting Garden Using Wildflowers" to be given by Dr. Douglas Airhart of Tennessee Tech in Cookeville. Except for the field trip, all activities will take place at Cheekwood. All events are open to the public. Admission to Cheekwood is \$2.50/adults, \$1.00/students and 50¢ for 7 and under. Contact: Jenny Andrews, Wildflower Horticulturist, Cheekwood Botanical Gardens, Forrest Park Drive, Nashville, TN 37205; (615)356-3306.
- April 23 EOI BLE WILDO PLANTS, 10:00 a.m. to 12 noon. Learn to identify and prepare back yard plants for your dinner table. We'll sample nature's delicacies that are sometimes mistaken for "weeds". \$5/Members, \$7/Non-members. Lichterman Nature Center, 5992 Quince Road, Memphis, TN 38119; (901)767-7322.
- April 23 WILDFLOWER WALK 10:00 a.m., conducted by Dr. A.J. Sharp, U.T. Professor. Meet at Picnic Shelter "C". Frozen Head State Natural Area, Route 2, Box 1302, Wartburg, TN 37887; (615)346-3318.
- April 23 WILDFLOWER WALK, 2:00 p.m. Hike leader to be announced. Frozen Head State Natural Area, Route 2, Box 1302, Wartburg, TN 37887; (615)346-3318.
- April 23 10TH ANNUAL "SPRING IN THE FOREST"--A full day of demonstrations, hikes, tours, displays, and pontoon boat rides available for your enjoyment. This is the perfect prescription for your case of "Spring Fever". Contact: Gary McEntire, Meeman-Sheiby State Park, Millington, TN 38053; (901)876-5215.
- April 23-25 CHARLES MOORE ESTATE, Brevard, NC. On this trip we will go to the Blue Ridge Parkway, explore it, spend the night (somewhere) and go to Brevard on Sunday at 9:00 a.m. Meeting point to be announced. Leader: Charles Moore. (We know this trip to be one of the most memorable flower tours you will ever take!) No admission charge. AFBees Field Trip. Contact: J.L. 'Bus' Jones, 6810 Gayda Lane, Chattanooga, TN 37421; (615)892-3009.
- April 23 WILDFLOWER WALK AT BAYS MOUNTAIN PARK, 10:00 a.m. to 12 noon, Nature Interpretive Center, Route 4, Kingsport, TN 37660. Contact: Marion S. Dulaney; (615)229-9947.
- April 24 WILDFLOWER WALK, 2:00 p.m. Hike leader to be announced. Frozen Head State Natural Area, Route 2, Box 1302, Wartburg, TN 37887; (615)346-3318.
- April 24 WORKSHOPS AT CHEEKWOOD BOTANICAL GARDENS. There will be workshops by Marty Zenni and Andrea Sessions of Sunlight Gardens, Inc., of Loudon, TN, on "Basic Wildflower Propagation" at 1:00 p.m. and "Landscaping with Wildflowers" at 3:00 p.m. Contact: Jenny Andrews, Wildflower Horticulturist, Cheekwood Botanical Gardens, Forrest Park Drive, Nashville, TN 37205; (615)356-3306.
- April 28-30 38TH ANNUAL SPRING WILDFLOWER PILGRIMAGE, W.L. Hills Convention Center in Gatlinburg, TN. Contact: Mrs. Lorraine Hendricks, Route 5, Bluff Mountain Tower Road, Sevierville, TN 37862; (615)453-9344.
- April 30 WILDFLOWER WALK AT BAYS MOUNTAIN PARK, 10:00 a.m. to 12 noon. Nature Interpretive Center, Route 4, Kingsport, TN 37660. Contact: Marion S. Dulaney, (615)229-9947.
- April 30 WILDFLOWER WALK, 2:00 p.m. Hike leader to be announced. Frozen Head State Natural Area, Route 2 Box 1302, Wartburg, TN 37887; (615)346-3318.
- April 30 5TH ANNUAL ROAN MOUNTAIN STATE PARK WILDFLOWER IDENTIFICATION CONTEST. Beginning at 12:00 noon in the Park Campground, student teams representing their high schools will be asked to identify native wildflowers in bloom within the park boundaries. Prizes awarded! Contact: Jennifer Wilson, Ranger Naturalist, Roan Mtn. State Park, Rt. 1 Box 236, Roan Mountain, TN 37687; (615)772-3303.
- April 30 & May 1 THE UNIVERSITY OF TENNESSEE ARBORETUM SOCIETY 1988 ANNUAL PLANT SALE, 901 Kerr Hollow Road, Dak Ridge, TN 37830; (615)483-3671. Plants for sale include: Native Trees, Dwarf Conifers, Hollies, Japanese Collection, Ferns, Tropicals, Ground Covers, Rhododendrons and Azaleas, Perennials, and Wildflowers. Magnolias are the 1988 Featured Plants. For a detailed brochure of the plant sale and additional information on membership, send a long, self-addressed, stamped (22¢) envelope to: The U.T. Arboretum Society, P.O. Box 3582, Dak Ridge, TN 37830; or call Harold Elmore at (615) 690-3410.
- May 7 WILDFLOWER PLANT SALE, 10:00 a.m. to 2:00 p.m. Bays Mountain Park, Nature Interpretive Center, Route 4, Kingsport, TN 37660. Contact: Marion Dulaney; (615)229-9947.
- May 7-8 ANNUAL SPRING WILDFLOWER PILGRIMAGE--Falls Creek Falls State Park. The Pilgrimage highlights the abundance of spring wildflowers with hikes and other programs, visiting both remote and accessible parts of the park. Programs include trail hikes, an edible wild plants ramble, a photo workshop, flower forays by bicycle, a morning bird-walk, and flower identification for beginners. The program will begin Friday night with a slide sharing session. A presentation by a special speaker will be on the agenda for Saturday night. Contact: Stuart Carroll, Interpretive Specialist II, Fall Creek Falls State Resort Park, Pikeville, TN 37367; (615)881-3297.
- May 8 TNPS FIELO TRIP with the AFBees. SAMPSON'S GULF (Samples Fork/Rocky River Gulf, Grundy County). Leader: Margret Rhinehart. Meet at the Courthouse in Spencer, TN, Hwy. 8 out of Dunlap, TN to Hwy. 111 into Spencer. 9:00 a.m. Will need a Bronco, Scout or pickup. Please advise if you plan to go and can bring a suitable conveyance for a somewhat rough road. Contact: J.L. 'Bus' Jones, (615)892-3009.
- May 14 CANOE THE FLINT, 9:00 a.m. to 5:00 p.m. \$25 fee. Callaway Gardens, Ida Carson Callaway Foundation, Pine Mountain, GA 31822; (404)663-2281.
- May 14-15 TNPS FIELO TRIP-MAY WEEKENO ADVENTURE WITH TOM PATRICK! May 14-Center Hill Quarry Surprise, DeKalb County; May 15-81g South Fork Ramble, Scott County. Leader: Tom Patrick; (404)557-2514.
- May 20-21 GETTING STARTED IN THE HERB GARDEN, 10:00 a.m. to 3:00 p.m. \$25 fee. Callaway Gardens, Pine Mtn., GA 31822; (404)663-2281.
- May 21-29 SOUTH CAROLINA/NORTH CAROLINA. AFBees Field Trip. Leaders: Paul Gabor, Bob Merritt, and 'Bus' Jones. Those wishing to caravan it may meet us at the Georgia Rest Stop on I-75 South, well past Chattanooga. All AAFBs will meet at Murtle Beach State Park at 9:00 a.m. at the fishing pier--that's on Sunday, May 22nd. We will check some interesting plants there and move on to Lakeshore Motel at Little River, SC, almost in North Carolina and check the Green Swamp on 211 from Supply to Lake Waccamaw. From Little River (great food), we will play it by ear. J.L. 'Bus' Jones, 6810 Gayda Lane, Chattanooga, TN 37421; (615)892-3009.
- May 29- August 19 SUMMER 1988 DISCOVERY PROGRAMS AT CALLAWAY GARDENS. Includes tours of the Sibley Horticultural Center; Flower Garden Findings; Bike Trail Walking Trek; The Gay Butterfly Center Update; Family Nature Adventure; Herb Garden Highlight; The Wonderful World of Butterflies; Discovery Chat; Attracting Wildlife to Your Yard and Garden; Astronomy; From The Group Up: A Workshop; Bluebirds, Bluebirds, Bluebirds; Production Preview; Ivy Toplary; Summer Woodlands; Snakes of Callaway Gardens-A Display; Vegetable Scavenger Hunt; Forest Hikes; and Tree Talk. Contact: Callaway Gardens, Ida Carson Callaway Foundation, Pine Mountain, GA 31822; (404)663-2281 for full program schedule.
- June 5-7 1988 NATIONAL LANDSCAPE DESIGN SYMPOSIUM, Louisiana State University, Baton Rouge, LA. Edward L. Blake, Jr., Director of the Crosby Arboretum, Piquette, MI will be one of the principal speakers. His topic will be "Wildflowers-A Fresh Look At Designs New Exotic". Write to: LSU Short Courses and Conferences, Baton Rouge, LA 70803; (808)225-5578 or (808)388-6621.
- June 11-12 TOPIARY SYMPOSIUM with optional workshops planned. Callaway Gardens, Ida Carson Callaway Foundation, Pine Mountain, GA 31822; (404)663-2281.
- June 17-19 SOUTHERN APPALACHIAN HIGHLANDS CONSERVANCY ANNUAL MEETING in Crossnore, NC. Saturday and Sunday field trips. Reservations required for accommodations at Crossnore. Non-members may inquire from: Southern Appalachian Highlands Conservancy, P.O. Box 3356, Kingsport, TN 37664; (615)323-3677.
- June 17-19 TNPS FIELO TRIP with the AFBees and the Southern Appalachian Highland Conservancy. Leaders: Ed Schell (Sunday), and 'Bus' Jones (Friday and Saturday). Meet Friday at I-81 on I-181 through Johnson City, Exit at St. Hwy. 67, turn West one block to Krogers Store. 12 noon EST. Meet Saturday at the Bonanza Restaurant at 9:00 a.m. in Elizabethton, TN. On Sunday, meet at the Roan Mountain Ranger's Station at 9:00 a.m. Contact: Ed Schell; (615)282-6125; or J.L. 'Bus' Jones; (615)892-3009.

June 18-20 42ND ANNUAL RHODOENDORON FESTIVAL. Two big days celebrating the blooming of the largest natural rhododendron gardens in the United States. Beginning Saturday with a full day of old time music, dancing, crafts sales, dinner and much more. Contact: Paul Cates, Roan Mountain State Park; (615)773-3272.

June 25 HIGHLAND OF ROAN NATURE EXCURSIONS, Roan Mountain State Park. A full day of special treks to the higher elevations of Roan Mountain in search of the marvelous wildflowers, birds, and historical specialties of this naturalist's paradise! Contact: Jennifer Wilson, Ranger Naturalist, Roan Mountain State Park, Rt. 1 Box 236, Roan Mountain, TN 37687; (615)772-3303.

June 25 SOLAR DAY--A special event day including nature walks, talks, solar related activities for kids, demonstrations, and other summer time activities. Contact: Jill Norvell, Lichterman Nature Center, 5992 Quince Road, Memphis, TN 38119; (901)767-7322.

July 24-30 BOTANIZING ACROSS OREGON. Join the Oregon Chapter of The Nature Conservancy for a botany field trip across Oregon. Travel will be by van and space is limited to nine (9) participants. Leader: Mike Houck, is a renowned Oregon Naturalist. For details, write: Oregon Botany Expedition, The Nature Conservancy, 1205 N.W. 25th Avenue, Portland, OR 97210.

July 23 TNPS FIELD TRIP with the AFBees, SUMMER FLORA. Leader undecided. Meet at 9:00 a.m. at the Ranger's Station in Roan Mountain. Contact: J.L.'Bus' Jones, 6810 Gayda Lane, Chattanooga, TN 37421; (615)892-3009.

July 28-30 CONFERENCE ON LANDSCAPING WITH NATIVE PLANTS AT CULLOWHEE. The purpose of the Conference is to increase interest in and knowledge of propagating and using native Southeastern plant species in the landscape. For a program schedule, call Or. Jlm Horton, Department of Biology at (704)227-7244 (W), or (704)293-5448 (H); or write to: Sue DeBord, Division of Continuing Education, Western Carolina University, Cullowhee, NC 38723 for a detailed brochure.

August 14 TNPS FIELD TRIP-ORCHID TRIP. To be announced. Contact: Dennis Horn; (615)455-5742 (H); (615)454-7447 (W); 222 Crestwood Drive, Tullahoma, TN 37388.

September 9-11 26TH ANNUAL ROAN MOUNTAIN NATURALIST RALLY, Roan Mountain State Park. Be sure to come to Roan Mountain for this special weekend of guest speakers and naturalist guided hikes as the vibrant colors of the fall flowers grace the slopes of the mountain. Contact: Carter County Chamber of Commerce, Elizabethton, TN 37643; (615)543-2122.

September 11 TNPS FIELD TRIP TO PACE POINT--Kentucky Lake, Stewart County. Leader: Nita Heilman, 429 Rivermont Drive, Clarksville, TN 37043; (615)645-9338.

October 15 FALL FESTIVAL AND PLANT SALE. A special event day including fall crafts and demonstrations, plus a fall wildflower, trees and shrubs sale. Contact: Jill Norvell, Lichterman Nature Center, 5992 Quince Road, Memphis, TN 38119; (901)767-7322.

October 22-23 FALL COLORS WEEKEND at Fall Creek Falls State Park. Bicycle tours of the park, walks, hikes, and slide shows focus on the autumn splendor of Fall Creek Falls. Contact: Fall Creek Falls State Park, Rt. 3, Pikeville, TN 37367; (615)881-3708 (Nature Center).

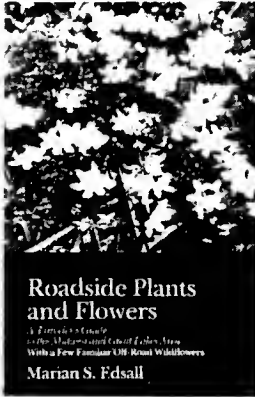
October 28-29 NATIVE PLANT CONFERENCE AT CULLOWHEE, NORTH CAROLINA--a "spur" conference. Contact: Larry Wilson for registration information at (901)767-7322 or (901)454-5600.

October 29 FIELD FOODS DAY at Falls Creek Falls State Park. Field trips demonstrating edible wild plants, a workshop on preparing wild meats, and a fish canning workshop are just part of the activities. The real treat comes in enjoying the wild feast. Contact: Nature Center, Fall Creek Falls State Park, Route 3, Pikeville, TN 37367; (615)881-3708.

ALL EVENTS ARE SUBJECT TO CHANGE OR CANCELLATION WITHOUT FURTHER NOTICE. PLEASE WRITE OR CALL THE CONTACT SOURCE LISTED!

(Compiled by Mark L. Fuzek, Editor-in-Chief for the Tennessee Native Plant Society Newsletter)





ROADSIDE PLANTS AND FLOWERS-A Traveler's Guide to the Mid-
west and Great Lakes Area by Marian S. Edsall. This lively
and easy-to-use guide includes descriptions and color photo-
graphs of more than a hundred roadside plants and wildflowers
common to the Midwest. Grouped by predominant color of their
flowers for quick identification, many of the plants are il-
lustrated by a pair of color photographs. The first shows
the plant in its natural habitat and gives an idea of its
size and relative scale; the second presents a close-up view
of the blossom and, when appropriate, its distinctive fruit
or seeds. This double perspective allows the reader to re-
cognize and identify plants from a distance--even from the
window of a moving car--and also at close range. Complement-
ing these helpful photographs are brief descriptions of each

plant, its common and botanical name, size, growing season and habits, and role
in legend and history--all presented in non-technical terms. 143 pages, 294
color illustrations, maps, 5½ x 8½ inches. \$17.50 cloth, \$12.95 paper, both
postpaid. Send check, money order, MasterCard or Visa to: University of Wiscon-
sin Press, 114 North Murray Street, Madison, WI 53715. (Wisconsin residents
add 5% sales tax.) Full refund granted for any reason, if book is returned in
good condition within 15 days of receipt.

PLANT/SEED SOURCES



VIGOROUS, NURSERY-GROWN WILDFLOWERS for all wildflower gardens, rich
or poor soil, shady or sunny conditions, natural areas or established
gardens. Showy, reliable, easy. 32-page booklet describes species,
gives cultural requirements, and suggests landscape uses and combina-
tions--\$1.00. SUNLIGHT GARDENS, Route 3 Box 286-T, Loudon, TN 37774.
We also offer complete landscaping services using native plants. Call
(615)986-6071.



Home Grown Wildflowers. Traditional Garden
Perennials. Large selection of plants and
seed available. Quality guaranteed. Cata-
log \$1.00, refundable with order. NATURAL
GARDENS, 113 Jasper Lane, Oak Ridge, TN
37830.

The Tennessee Native Plant Society Newsletter is published bimonthly (February, April, June, August, October, and December) in association with the Department of Botany, The University of Tennessee, Knoxville, TN 37996-1100. Please notify us of change in address six weeks in advance. Back issues available at \$1.00 each.

Editor-in-Chief
 Mark L. Fuzek
 Contributing Editor
 Edward W. Chester
 Contributing Artist
 Claudia Denton
 (Passionflower)

THE UNIVERSITY OF TENNESSEE
 KNOXVILLE, TENNESSEE 37996-1100
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TENNESSEE NATIVE PLANT SOCIETY

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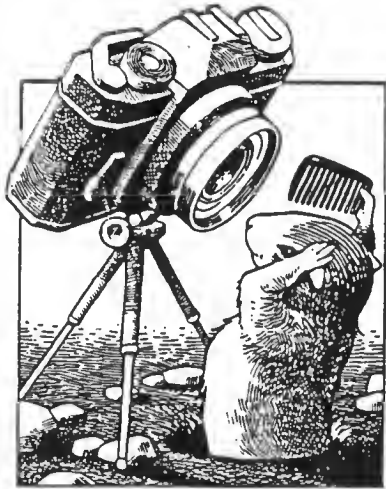
How To Enter 1988 National Wildlife Photo Contest

The editors of *National Wildlife* magazine invite you to enter the 1988 photo contest. Cash prizes totaling \$6,000 will be awarded; winning photos will appear in next December's issue.

RULES: The competition is open to all amateur photographers except employees of the National Wildlife Federation and their immediate families. Professional nature photographers (those whose primary income is from nature photography) are asked not to enter this contest. A total of up to five entries (a sequence counts as one entry) in any combination of the following categories may be submitted:

- Wildlife
- Landscapes
- Plant Life
- Humor in Nature
- People in Nature
- Underwater Life

Entry in the contest constitutes agreement to allow photographs to be published in *National Wildlife* as contest winners, with



BOB GERSWOLD

limited promotional use, and inclusion in an exhibit sponsored by the Leigh Yawkey Woodson Art Museum of Wausau, Wisconsin, and in its promotion. Entrants retain all other rights to their winning photographs.

Entries must be original color transparencies (Kodachrome 25/64/200 or Fujichrome 50/100 preferred) or color prints. Prints may be mounted, but mount size

must be no larger than 11x14. Negatives must be available for all prints. Do not send glass-mounted slides.

Each photograph must bear the photographer's name, address and phone number. Include the make and model of camera and lens used for each photo, film used, exposure settings, special equipment, if any, and a brief description of where, when and how the photo was taken. Previously published material may be entered; however, please include information on when and where the photo has appeared.

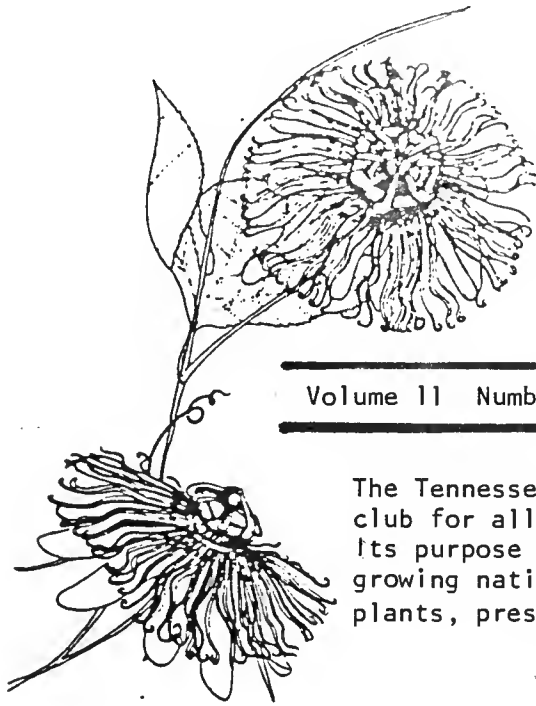
Include a stamped, self-addressed envelope of the proper size, or entries cannot be returned. *National Wildlife* magazine cannot be responsible for entries.

DEADLINE: All entries must be postmarked no later than June 10, 1988. Send entries to National Wildlife Photo Contest, 8925 Leesburg Pike, Vienna, Virginia 22184.

TENNESSEE NATIVE PLANT SOCIETY NEWSLETTER

Volume 11 Number 2

April 1988



The Tennessee Native Plant Society was founded in 1978 as a botanical club for all persons interested in the native flora of Tennessee. Its purpose is to promote interest in plant identification, folklore, growing native plants from seeds and cuttings, landscaping with native plants, preserving natural areas and protecting rare plants.

PRESIDENT'S MESSAGE

"In spring, a botanist's fancy lightly turns to thoughts of plants". I think that's how that goes. Anyway, my thoughts have been there for some time, and it has been heartening to see a few plants' fancies already turning to thoughts of greening up and getting on with that annual business of procreation, whence come all those flowers. I've already seen salt-and-pepper, Leavenworthia, Phlox, spring beauty, Ranunculus, speedwell and toothwort, and more will be on the way after winter has its last hurrah. When it does, we all will be headed outdoors to search for these precious jewels. In the next few days, I'm looking forward to a little photography and a little scholarly type work on some of our local rarities. You all, likewise, will be out enjoying "your" flora in whatever way suits you. Some of that enjoyment, no doubt, will include heading out with the hoe and spading fork to the flower bed or garden.

Recent years have seen a dramatic rise in interest in horticultural usage of our own, often overlooked, native plant species. This interest includes maintaining live collections in wildflower gardens, but goes beyond to using native plants in a variety of ornamental and landscaping applications. I think it's great! More people will be made more aware of what's "growing on" in their own nearby world, and heightened awareness of native plants among the public is a necessity if we wish to achieve protection for any species. It also presents a whole array of entrepreneurial opportunities for persons who have interests and knowledge as we do. Furthermore, the variety afforded by the use of native plants should help spice up many weary lawns full of Asian and European exotics. Don't misunderstand me, I still like daffodils and daylilies, but I think we could stand a few less boxwoods. How about some Neviusia instead!

I think the growing desire for native plants is good news for people and plants, that is, if handled properly. But there is a bad side too, which should be obvious to those of us in the Tennessee Native Plant Society. To supply the demand for native plant species, many nurseries specializing in them literally head to the hills. The practice of harvesting wild plants for direct sale is nothing new, but increasing popularity in the use of native plants should be a cause of concern to all of us. Nursery contracted diggers can (and will) wipe out an entire local population in a single day, with the Pink Lady's Slipper orchid being a good example. Thousands leave Tennessee's

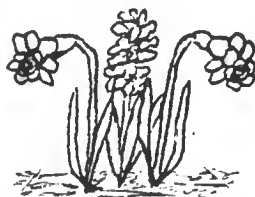
woodlands every year! The White Fringeless Orchid, Platanthera integrilabia, a state endangered species, is being exploited in a similar fashion. Nursery collecting is a chief reason it is listed. Other orchid species, plus members of the genus Lilium and certain Trillium species also are being removed from the wild in alarming numbers, and the list does not end there.

Without question, some of our native species face an uncertain future. The question we should ask then, is obvious: What can we do? For starters, let us try these: 1) If you buy native plants, buy from those who propagate their own stock. Increasing the demand for propagated stock will lessen the demand for wild plants. 2) If you dig wild plants, dig only those from large colonies and take only a very few individuals. Be sure to observe landowner's rights. Get permission, preferably written--in some cases it is the law that requires it. And remember, there are trespassing laws. I also might point out that wild plants sold by some nurseries are often stolen from private lands. 3) When planting, duplicate the native habitat as closely as possible to ensure the greatest survival. Species of rich, loamy, forest soils will not do well in poor, hard clay in full sun; and native orchids, as a rule of thumb, probably will not do very well anywhere. And 4) Get to know laws which can be used to protect native plants, then report violations and urge your legislators to have the laws enforced. Government agencies won't act unless you do.

There is much more to be said, but it all boils down to this: SET AN EXAMPLE! In order to foster in the public a desire to preserve an important resource, you and I must lead the way. This year, let's all be aware of the steps we take where our precious native flora is concerned.

--Scott C. Gunn
TNPS President

Editor's Note: Whew! I was just recuperating from putting out the February newsletter--my largest so far, and it's time to get out the April issue! I hope you understand why this newsletter is a little late. The Calendar of Events and TNPS Field Trip Schedule should keep you busy anyway! Some of the workload has been taken off of my shoulders. Shirley Nicholson, TNPS Treasurer, is doing an excellent job with the membership dues, address changes/corrections, and new members list. Linda Ewald, a faithful TNPS member, is still helping me to prepare the newsletters for mailing; as well as contributing her artistic talents. The University of Tennessee Department of Botany has granted one of their secretaries, Eunice Jenkins, permission to help us with our membership list, current addresses, and mailing address labels, utilizing a word processor. This will allow us to print out the labels in zip code order for faster sorting and mailing bulk rate. It will also allow us to have a Membership Directory in alphabetical order. We are most grateful to have Eunice volunteer her time. And, Andrea Shea, Corresponding Secretary, is handling the mail inquiries. I would still like to see more active participation by all TNPS members. DEAD-LINE FOR MATERIALS FOR THE JUNE ISSUE IS ON OR BEFORE MAY 10, 1988! Please send contributions to: Mark L. Fuzek, Editor-in-Chief, Tennessee Native Plant Society Newsletter, P.O. Box 525, Knoxville, TN 37901-0525.



WELCOME TO OUR NEW MEMBERS

Berry, II., Dr. Sydney A.,
Lebanon, TN
Hendershot, Cornelia, Tullahoma, TN
Hyland, Jean H., Bryn Mawr, PA

Marlowe, Jr., Joseph D., Tracy City, TN
Moore, Joyce, Chuckey, TN
Parker, Louise Kitchell, Memphis, TN
Peterson, Mark J., Knoxville, TN

* * * * *

MINUTES FROM THE TNPS BOARD MEETING
FEBRUARY 14, 1988
AT RADNOR LAKE STATE NATURAL AREA

Meeting began at approximately 2:00 p.m.

Board Members in attendance were Scott Gunn, Dennis Horn, Shirley Nicholson, Andrea Shea, Mark Fuzek, Kay Jones and Duane Houck.

The Board passed a resolution to commend Mark Fuzek for his work with the newsletter (this was prior to Mark's attendance at the meeting).

The Board approved a motion to send one February issue (a "grace issue") to immediate past members whose memberships have expired and who have not renewed. A notice will accompany the newsletter stating it is their last.

Shirley Nicholson gave the Treasurer's report. TNPS's financial condition is better than last year.

Organization for the TNPS display at the Wildflower Pilgrimage was discussed.

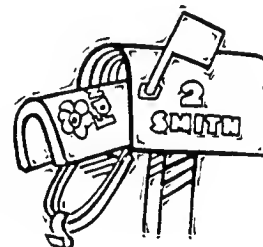
A nominating committee to search for new officers and board members was discussed. It was determined that Frances Spence, Al Foster and Sandy Bivens are still on the board. Kay Jones, Lois Lord and Duane Houck are board members rotating off. Dennis Horn will head up the nominating committee.

* * * * *

FROM THE MAILBOX.....

Dear Editor:

This year, for the school Science Fair, I have decided to do my project on wildflowers as endangered species. The American Horticultural Society suggested that I write you for any information that you might kindly give me to help me with my project. Being I live in West Tennessee I was wondering what plants are endangered in my area. Do you have any suggestions on how I can put a project together like this? (One way I was thinking about is reproduction.) My problem is my teacher wants an experiment done. Got any ideas? I would surely like some help! I would be grateful to you. Thanks alot.



Alanna D'Angelo
135 W. Lawnwood
Collierville, TN 38017

[Ed. note: Isn't it encouraging to know that our young folks are interested in wildflowers and their future?]

A MINIATURE GARDEN OF WILDFLOWERS
by Steve Bender



Most gardeners, at one time or another, try their hand at forcing spring bulbs for early bloom. But have you ever considered forcing spring wildflowers? It's not as hard as it might seem. And by growing these plants together in an attractive container, you can have a miniature wildflower garden that's easy to display indoors and out.

Like bulbs, many of these spring-flowering plants need to be purchased and planted in fall so that they receive the two to three months of winter cold necessary to form flowers. Gardeners in the Coastal South, where winters are often quite mild, may need to refrigerate the plants for the required period before putting this planter together. Elsewhere, it's easier to plant the wildflowers together in the pot you've chosen, then

sink the pot up to the rim in soil in November. In early March, remove the planter, and display it in a bright location. Flowers should appear shortly.

As a rule, woodland wildflowers aren't deeply rooted, so you can grow them in the same kind of shallow pots often used for forcing bulbs. For this project, we selected a 12-inch, terra-cotta saucer with a drainage hole in the bottom. Then we placed the wildflowers inside, positioning taller ones toward the center and shorter, creeping ones around the edge. Our plants included foamflower (Tiarella cordifolia), fringed bleeding-heart (Dicentra eximia), celandine poppy (Chelidonium majus), butterfly violet (Viola papilionacea), and prickly lettuce (Lactuca serriola). Except for the violets and prickly lettuce, which are widespread, all the plants were purchased from nurseries--not collected from the wild.

To prepare a similar planter, start with good potting soil, filling in around the plants to within an inch of the saucer's top. Firm the soil by hand, water thoroughly, then top dress the soil surface with a thin layer of shredded bark. The bark adds a finished look, helps retain moisture, and keeps soil from washing out when the container is rained on.

The advantage of a planter filled with wildflowers rather than bulbs is that it's not just for spring. By including plants that sport foliage after the flowers fade, your planter can remain attractive year-round. Foamflower and fringed bleeding-heart accomplish this, but you should also try bloodroot (Sanguinaria canadensis), lily-of-the-valley (Convallaria majalis), European wild ginger (Asarum europaeum), galax (Galax urceolata), and ebony spleenwort (Asplenium platyneuron).

When deciding which wildflowers to plant, keep several things in mind. First, make sure all the plants enjoy the same soil, moisture, and light requirements; otherwise, several plants may undergo a rapid decline. And don't choose plants that grow large too quickly or they'll overwhelm the others and become out of scale.

Eventually, the wildflowers will outgrow the planter, and you'll have to transplant them into the garden. But view this as an opportunity, not a chore. Because there are so many wildflowers from which to choose, you can have a different planter each year.

(Southern Living, Volume 23, No. 3, p. 95. Copyright by Southern Living, Inc., March 1988. Reprinted With Permission.)

-----APRIL FIELD TRIPS-----

Sunday April 10	Short Springs Area, Coffee County (with AFBees, TTA, and Tulahoma Historical Society)	Dennis Horn (615)455-5742 (H)
Saturday April 16	Spring Cedar Glade Flora, Maury County (with AFBees) Meet at 9:00 a.m. (CST) in Colum- bia, TN at Hardee's Restaurant Intersection of U.S. 31 and State Hwy. 99.	Harold and Nancy Scott (615)388-0850 (H)

[Ed. Note: These events will have passed by the time you receive this news-
letter, but they are included for documentation.]

-----MAY FIELD TRIPS-----

Sunday May 8	Samples Fork/Rocky River Gulf, Grundy County (with AFBees) Also known as Sampson's Gulf.	Margret Rhinehart 'Bus' Jones (615)892-3009 (H)
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Leader: Margret Rhinehart. Meet at the Courthouse in Spencer, TN, Hwy. 8 out
of Dunlap, TN to Hwy. 111 into Spencer at 9:00 a.m. You will need a Bronco,
Scout or pickup. Please advise if you plan to go and can bring a suitable con-
veyance for a somewhat rough road. Contact: J.I. 'Bus' Jones, (615)892-3009.

MAY WEEKEND ADVENTURE WITH TOM PATRICK

Saturday May 14	Center Hill Quarry Surprise, DeKalb County	Tom Patrick (404)557-2514 (W) P.O. Box 387
Sunday May 15	Big South Fork Ramble, Scott County	Rutledge, Georgia 30663

CALENDAR OF EVENTS

April 28-30	<u>38th ANNUAL SPRING WILDFLOWER PILGRIMAGE</u> , W.L. Mills Convention Center in Gatlinburg, TN. Contact: Mrs. Lorraine Hendricks, Route 5, Bluff Mountain Tower Road, Sevierville, TN 37862; (615) 453-9344.
April 30- May 1	<u>THE UNIVERSITY OF TENNESSEE ARBORETUM SOCIETY 1988 ANNUAL PLANT SALE</u> , 901 Kerr Hollow Road, Oak Ridge, TN 37830; (615)483-3671.
May 6, 7 & 8	<u>30th ANNUAL ROAN MOUNTAIN WILDFLOWER TOURS AND BIRD WALKS</u> . Theme: "Taking Time: Absorbing Nature's Wonders". Speakers: Dr. Alan Heilman, with presentation "Looking and Seeing"--a journey into the overlooked details and wonders of plants; and Dr. David Pitts' program entitled "Eastern Bluebird Populations: Past, Present, and Future". For further information, contact: Roan Mountain State Park, Route 1, Box 236, Roan Mountain, TN 37687; (615)772- 3303.
May 7	<u>WILDFLOWER PLANT SALE</u> , 10:00 a.m. to 2:00 p.m. Bays Mountain Park, Nature Interpretive Center, Route 4, Kingsport, TN 37660. Contact: Marion Dulaney; (615)229-9947.

- May 7-8 ANNUAL SPRING WILDFLOWER PILGRIMAGE AT FALL CREEK FALLS STATE PARK. Contact: Stuart Carroll, Interpretive Specialist, 11, Fall Creek Falls State Resort Park, Pikeville, TN 37367; (615)881-3297.
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- May 14 CANOE THE FLINT, 9:00 a.m. to 5:00 p.m. \$25 fee. Callaway Gardens, Ida Carson Callaway Foundation, Pine Mountain, GA 31822; (404) 663-2281.
- May 14-15 TNPS FIELD TRIP--MAY WEEKEND ADVENTURE WITH TOM PATRICK! May 14-Center Hill Quarry Surprise, DeKalb County; May 15-Big South Fork Ramble, Scott County. Leader: Tom Patrick; (404)557-2514.
- May 20-21 GETTING STARTED IN THE HERB GARDEN. 10:00 a.m. to 3:00 p.m. \$25 fee. Callaway Gardens, Pine Mountain, GA 31822; (404)663-2281.
- May 21-29 SOUTH CAROLINA/NORTH CAROLINA--AFBee Field Trip. Contact: J.I. 'Bus' Jones, 6810 Gayda Lane, Chattanooga, TN 37421; (615)892-3009.
- May 29- August 19 SUMMER 1988 DISCOVERY PROGRAMS AT CALLAWAY GARDENS, Ida Carson Callaway Foundation, Pine Mountain, GA 31822; (404)663-2281 for full program schedule.
- June 5-7 1988 NATIONAL LANDSCAPE DESIGN SYMPOSIUM, Louisiana State University, Baton Rouge, LA. Edward L. Blake, Jr., Director of the Crosby Arboretum, Picayune, MI will be one of the principal speakers. His topic will be "Wildflowers--A Fresh Look At Designs New Exotic". Write to: LSU Short Courses and Conferences, Baton Rouge, LA 70803; (808)225-5578 or (808)388-6621.

(All events are subject to change or cancellation. Please write or call the contact source listed. For other events, consult your TNPS 1988 Calendar of Events Schedule published in the February 1988 issue of the Newsletter. If you need a copy, send a SASE to: Mark L. Fuzek, P.O. Box 525, Knoxville, TN 37901-0525.)

ENDANGERED SPECIES ACT REAUTHORIZATION

On December 17, 1987, the U.S. House of Representatives passed H.R. 1467, by a 399-16 vote. In addition to reauthorizing the Endangered Species Act, the House included higher levels of funding and several strengthening amendments, including increased protection for plants on non-federal lands and candidate species awaiting listing.

The Act is now in a crucial period as it awaits floor action by the Senate. It is hoped that the landslide victory in the House will be mirrored in the Senate. Letters or phone calls from individuals are especially influential in the final decision made by the Senate. It is urgent for interested individuals to voice their opinion regarding the Endangered Species Act; contact your Senators. In addition to comments regarding your personal convictions, the following points should be helpful.

1. Support the 5-year Reauthorization of the Endangered Species Act as passed by Senate Committee on Environment and Public Works.
2. Ask your senators to contact Senators Robert Byrd and Robert Dole, requesting early Floor action on S 675, the Endangered Species Act.
3. Ask your senators to co-sponsor the reauthorization bill if they have not yet done so.

Address to: The Honorable Senator (name of your senator), U.S. Senate, Washington, D.C. 20510

(Reprinted from the National Council of State Garden Clubs, Inc., The Columbine, Operation Wildflower Newsletter, March 1988, Vol. 8, No. 2, p. 4.)



Potpourri

5000th BACKYARD HABITAT CERTIFIED! The Backyard Wildlife Habitat Program, inaugurated by the National Wildlife Federation 14 years ago to help Americans

conserve wildlife in their own yards, has certified its 5000th habitat. Number 5000 belongs to Robert and Elaine Sabin of Bellevue, Nebraska, near Omaha. With assistance from the Federation, the Sabins have provided the critical elements for wildlife survival with berry- and cover-producing shrubs and trees, feeders and water, and brush piles where birds and other animals can live and raise their young. The Federation started the Backyard Habitat Program in 1973 to restore some of the millions of acres of habitat destroyed by development and to educate the public about wildlife. A yard need not be large to qualify for the program. The smallest certified habitat is an 8 x 10 feet area behind an office condominium! (International Wildlife, January-February, 1988, p. 26.)

THE TOP CONTAINER! Ever wonder which container is best for your potted plants? Keeping container-grown plants alive through the winter is a major concern of nursery owners in this country, since as much as 50% of their stock is grown in pots. Horticulturists at the University of Tennessee in Knoxville took the matter to heart (and lab) and have come up with the perfect container design, based on the results of five experiments. Full details of their findings appear in the September 1987 issue of the Journal of American Horticulture. To give your potted plants their best shot at making it through the cold winter months, you should grow them in cubical containers with polyester fabric bottoms in a growing mix that has plenty of water-holding capacity (such as peat), and place these containers on a sandy base. Never mind that square pots are not widely available yet...it's likely they will be soon. The research team has already applied for a patent on their new design. (National Gardening, February 1988, "GRIST-Gardener's News Roundup", p. 19.)

FERN SETS OFF FALSE ALARMS! The waving fronds of a potted fern have been blamed for several false alarms by an electronic burglar-detection device in an office building in Wales, Wisconsin. The plant, near a heater in a Kettle Moraine School District office, occasionally touched off the alarm by the motion of its fronds when the heater fan was blowing, Superintendent Earl Brakken said. Waukesha County recently billed the district \$80.50 for four false alarms transmitted to the sheriff's office. Citizens linked to alarm systems must pay fines for defective equipment. Brakken, who accompanied sheriff's deputies to the office when alarms were received, said the fern became a suspect and, by moving it around "we've got it straightened out." (Reprinted from The Knoxville News-Sentinel, Friday, January 8, 1988, p. B-6. Submitted by Paul Somers). Ed. note: My sister may have a story that tops this one. She is a Pharmacist for Revco Drugs and was awakened several times one weekend night to go check her store because the burglar alarm system kept going off. Each time she was escorted by the police, and arrived to find no signs of tampering. Finally on Monday, the alarm system service personnel came to check out the unit--only to find a tiny spider busily spinning its web!

LOOKING OUT FOR LIVE OAKS. There's a new threat in the forest of the South. The fungus that almost wiped out the American chestnut has surfaced again, in live oak trees, reports The New York Times (November 24, 1987). Federal and state foresters discovered the infestation of the parasite Endothia parasitica in the live oaks last October during a routine expedition to the Mississippi

Gulf Coast. There is no available fungicide to kill the parasite, which enters the tree through bark injuries. But so far the trees seem to be resisting the intruder fairly well, says Ted Filer, a plant pathologist at the Forest Service's Stoneville Experiment Station. According to Darlene Slater of the Mississippi Forestry Commission, the fungus has since been spotted in the Jackson area. "We're just hoping it's not serious," she says. Live oaks are broadleaf evergreens that thrive in the wet, humid coastal regions from Virginia to Texas and farther west. They're among the oldest living things in the South, and are often found on old plantations. (National Gardening, February 1988, "GRIST-Gardener's News Roundup", p. 18.)

NATIONAL WILDLIFE FEDERATION CALLS FOR POLICY TO PROTECT WETLANDS. The United States needs a national wetlands protection policy to stop destruction of wetlands, restore ones that have been degraded or destroyed and where possible, create entirely new ones. That is the conclusion of the National Wildlife Federation's "Status Report on Our Nation's Wetlands", which notes that wetlands are important not just for wildlife habitat and recreation. They also function as remarkable biological systems that buffer the effects of floods and storms, trap sediments and pollutants and replenish ground water supplies. Yet wetlands are being destroyed at a rate of more than 300,000 acres a year; many more are degraded by toxic chemicals and excess nutrients. Federal programs to protect them are "ineffective, inadequate, or nonexistent", the report says. (International Wildlife, January/February 1988, p. 27.)

THE UNSEEN GARDEN. The Missouri Botanical Garden, located in the heart of St. Louis, Missouri is a living tribute to its founder Henry Shaw. It is one of the finest botanical gardens in the country. There are thousands of visitors each year, with few of them aware of the "Unseen Garden" with its botanical research program. Scientific research at the garden focuses on exploration and study of the tropics, which encompass the earth's least known but most rapidly vanishing ecosystems. Because of the speed with which irreversible changes are occurring in the tropical regions, the Garden has made a long-term commitment and assumed a leadership role in the study and conservation of these imperiled habitats. To this end, the Garden currently maintains one of the world's most active field research programs in tropical botany, with a staff of approximately 70 researchers and technicians, including over 30 Ph.D. level scientists. The primary focus of the research program is to provide in-depth studies of selected tropical plant groups and baseline inventories of especially interesting and important regions. The results of these studies are often used to suggest direct conservation priorities and action through recognized international channels. For further information, write to: Missouri Botanical Garden, 4434 Shaw Blvd., Box 299, St. Louis, MO 63166. (National Council of State Garden Clubs, Inc., The Columbine, Operation Wildflower, January 1988, Vol. 8, No. 1, p. 2.)

AMERICA'S BLOSSOMS. Spring's Industries has informed the National Council of State Garden Clubs, that J.C. Penney has accepted a new wildflower pattern, "America's Blossoms". This is a floral pattern on a white background for the sheets and the accessories, spreads, drapes, etc., will have the same pattern on a dark green background. "America's Blossoms" will be featured in the summer catalog and available in a number of J.C. Penney stores across the country on or about June 15, 1988. National Council will receive a small royalty to continue with its educational wildflower program. Linens with America's Wildflowers and America's Garden design will still be available from the J.C. Penney catalogs. (National Council of State Garden Clubs, Inc., The Columbine, Operation Wildflower, March 1988, Vol. 8, No. 2, p.5.)

STUDY THE NATIVE PLANTS OF ALASKA. An exciting trip is being offered this summer to study and photograph the natural history of the Denali Parks of Alaska. Travel is by train and river rafts on this 12 day backpacking expedition. College credit is available. \$450 total cost. For details, write to the instructor: John Wenger, P.O. Box 240171, Anchorage, AK 99524-0171.

NATURE GUIDE--THE LOCAL NATURALIST HELPING THE TRAVELER NATURE GUIDE is a small, non-profit, Audubon-sponsored directory of people who help nature-loving travelers to see birds, trees, flowers and other wildlife. These volunteer guides live in their own communities in the USA and in other countries of the world. NATURE GUIDE has taken a special place in the travels of thousands of travelers. Some have said just one volunteer naturalist made their trip. Some one has taken them to a park, a wetland, a family arboretum or a backyard with feeders; and his or her knowledge and enthusiasm for the wildlife there was the brightest spark in a long trip. The only cost to travelers is a one-time purchase to put them in touch with reliable and knowledgeable people. Mutual courtesy is re-emphasized. The NATURE GUIDE has appeared in reviews in a wide spectrum of conservation, specialized and general interest media. Many mentions and reviews are published in other countries.

What they would like to have from you (or our organization) is:

- a) People to act as volunteer guides to good birding spots, wildlife parks or preserve, and native plant areas.
- b) Your natural areas; that is, national parks, sanctuaries, wetlands, zoos, geology; listed with addresses.
- c) Addresses of bird societies, conservation organizations and wildlife groups.

They are in the process of compiling the 10th edition of NATURE GUIDE. After 17 successful years, they and thousands of travelers want to make it even better. Would you like to be included in this edition? For an information form, or to reserve a copy of the 10th edition of the NATURE GUIDE directory, send inquiries to: NATURE GUIDE, 34915 Fourth Avenue South, Federal Way, Washington 98003, or call (206)927-3895 or (206)838-0951.

SMOKY MOUNTAIN FIELD SCHOOL 1988

May 14	Botanical Photography
May 28	Spring Wild Edibles
June 4	Forests and Trees of the Smokies
June 18-19	Identification of Ferns
June 25	Gregory Bald Azalea Hike
June 25	Summer Wildflowers of Pickett State Park

For course information, call (615)974-6688, or write to: Smoky Mountain Field School, Non-Credit Programs, 2016 Lake Avenue, University of Tennessee, Knoxville, TN 37996-3515.

Permission is hereby granted to reprint material contained within this Newletter, provided proper credit is given to the author/editor and to the Tennessee Native Plant Society, Department of Botany, The University of Tennessee, Knoxville, TN 37996-1100.

THE GREAT
AMERICAN CHESTNUT REVIVAL

The American Chestnut was one of the largest, most plentiful, most versatile and most valuable forest trees in the eastern U.S. It is the only chestnut species in the world that grows to a large-sized tree with commercial timber value. Its nuts are the sweetest and highest quality for eating of any chestnut species in the world. It is adapted to and thrives in somewhat acid, infertile soils. Its wood is one of the most durable and decay resistant of all American trees and, as such, was extremely valuable for railroad ties, mine timbers, posts, buildings and furniture. It was the source of almost all tannin used to tan leather products. Around 1900 about 80% of all sawlog timber marketed in the eastern states was American chestnut. It was never necessary to replant because root suckers would sprout around the stumps and rapidly repopulate forests.

The Chestnut Blight Disease introduced into this country about 1902 killed off almost all of the American chestnut throughout the east and across the country. Many authorities considered it extinct as a species. Attempts to control the blight failed. There is still no known resistance to the blight.

The American Chestnut Revival, as an arm of the Cumberland-Green Bioregional Council is attempting to replenish our bioregion with American chestnut trees. Our main goals are:

- 1) Locate, catalog, and monitor American Chestnut trees existing within our bioregion. This is vital to protect the existing trees, and to insure an adequate source of seeds for replanting purposes.
- 2) Promote planting of seeds and seedlings by providing current horticultural information and acting as a source for seeds and seedlings.
- 3) Maintain a communication network.
- 4) Encourage involvement of state forestry, conservation, and educational personnel across the bioregion.

How can you help?

- 1) Help us locate existing trees.
- 2) Purchase seeds and seedlings for planting.
- 3) Make a donation to our cause.
- 4) Spread the word.

If you would like to help with any or all of the above, call or write: Carol Klinger, Route 1, Dowelltown, TN 37059; (615)536-5533.

POSITIONS AVAILABLE

NATIVE PLANT NURSERY MANAGER. I am playing headhunter--looking for the right person for a great job. This is a hands-on job (no finger-pointing here) raising from seedlings to containerized plants some of Central Texas' most beautiful, interesting and, in some cases, endangered species. The current operation is adequate, but the owner feels there is much potential for a horticulturally-capable, production-oriented individual willing to develop long-range goals, perfect methods and work at growing terrific plants. Remuneration and other benefits are open to discussion. If this work, in a beautiful valley one hour west of San Antonio, sounds interesting to you, please contact: Skip Fulton (512) 472-8110 (evenings), or send a resume to: Box 12685, Austin, Texas 78711.

EXECUTIVE DIRECTOR, New England Wild Flower Society. Responsibilities: Facilitate staff operations and coordinate Trustee participation. Implement the Society's long range plans in cooperation with the President and Board of

Trustees; provide fund-raising leadership and oversee the installation of new facilities and programs across New England; develop strong state chapters and increase regional membership. Administer and strengthen the Society's publications. Prepare budgets and financial reports for Trustee approval. Institutional statistics: 3,000 Membership; \$600,000 Annual Operating Budget; Personnel: 14 permanent staff, six part-time staff, and volunteers; Property-- one botanical garden, six sanctuaries in three states. Qualifications: Proven experience and skills in management, communication, fund-raising and development; extensive knowledge and strong belief in the value of native plant conservation and horticulture. Salary and Benefits: Commensurate with experience. Send resume to: Search Committee, New England Wild Flower Society, Hemenway Road, Framingham, MA 01701. Phone: (617)877-7630. Position available July 1, 1988.

PLANT/SEED SOURCES



VIGOROUS, NURSERY-GROWN WILDFLOWERS for all wildflower gardens, rich or poor soil, shady or sunny conditions, natural areas or established gardens. Showy, reliable, and easy. 40-page booklet describes species, gives cultural requirements, and suggests landscape uses and combinations of "Wildflowers, Ferns, and Perennials of Eastern North America" from frost to frost--\$1.00. SUNLIGHT GARDENS, Route 1, Box 600-A, Hillvale Road, Andersonville, Tennessee 37705. We also offer complete landscaping services using native plants. Call (615)494-8237. [Please note change of address.]

SINKING  SPRINGS
GARDENS

Route 7 Box 173 Clinton, TN 37716
Phone (615) 457-1864
Jim & Mearl Macres

The NEWNESS of our entry into the nursery business has just about worn off. We feel that we have learned alot about what you want in the way of native wildflowers and have increased our propagated supply along those lines. We are adding some rock garden and alpine plants to our stock. We want to thank everyone that has come to just visit our gardens and/or patronize our nursery. You are still welcome to come anytime. Please just give us a

call for directions, and to let us know when to expect you. We are planning to ship this year. For a list of our plants, please send a SASE to: SINKING SPRINGS GARDENS, Route 7, Box 173, Clinton, TN 37716. Call (615)457-1864. [Ed. Please note change of mailing address. They have not moved.]



Home Grown Wildflowers. Traditional Garden Perennials. Large selection of plants and seed available. Quality guaranteed. Catalog \$1.00, refundable with order. NATURAL GARDENS, 113 Jasper Lane, Oak Ridge, TN 37830.

Volume 11 Number 2 April 1988

The Tennessee Native Plant Society Newsletter is published bimonthly (February, April, June, August, October, and December) in association with the Department of Botany, The University of Tennessee, Knoxville, TN 37996-1100. Please notify us of change in address six weeks in advance. Back issues available at \$1.00 each.

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APR 1988

DOVER PUBLICATIONS, INC. offers several nature coloring books, two of which may be of particular interest to our young TNPS members: American Wild Flowers Coloring Book by Paul Kennedy, and Common Weeds Coloring Book by Stefen Bernath.



AMERICAN WILD FLOWERS COLORING BOOK, Paul Kennedy. Learn to identify 46 of the most important wildflowers, from Rickett's collection— lady's slipper, black-eyed susan, bird's foot violet, cardinal flower, pitcher plant, trout lily, etc. Botanical identifications, common names and habitat. Color versions on covers. "...a source of enjoyment for wildflower enthusiasts of almost any age..."—PHYTOLOGIA. 48pp. 8 1/2" x 11.

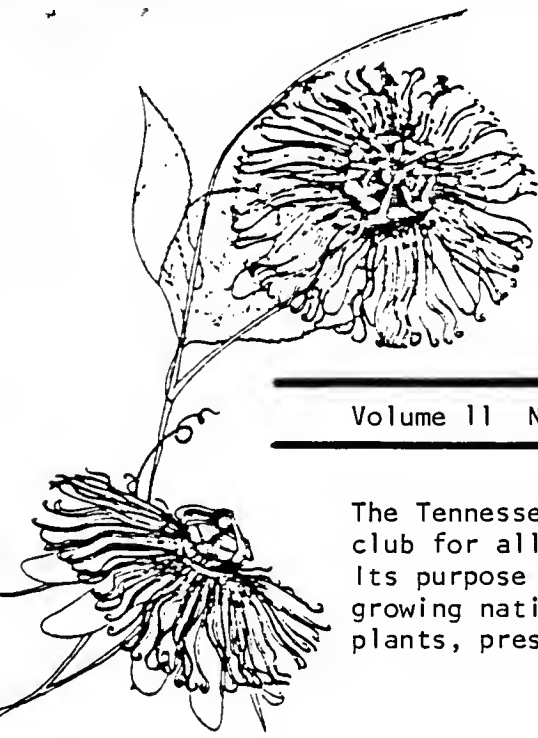
20095-7 Pa. \$2.50



COMMON WEEDS COLORING BOOK, Stefen Bernath. Identify 45 weeds prevalent throughout the United States—Queen Anne's lace, buckhorn, oxeye daisy, poison ivy, many others. Remarkable adaptability, frequent medicinal or nutritional uses. Introduction, captions by E. F. Bleiler. "... may take its place on the garden book shelf for reference."—TULSA DAILY WORLD. 48pp. 8 1/2" x 10 1/2".

23308-1 Pa. \$2.75

We will be offering these for sale at the Wildflower Pilgrimage. Or, you can order them by sending check or money order to: DOVER PUBLICATIONS, INC., 11 East 2nd St., Mineola, NY 11501. Include 85¢ for one item or \$1.50 (maximum) for two or more items for postage and handling. For other coloring books, request their "Complete Dover Nature Catalog".



TENNESSEE NATIVE PLANT SOCIETY NEWSLETTER

Volume 11 Number 3

Summer 1988

The Tennessee Native Plant Society was founded in 1978 as a botanical club for all persons interested in the native flora of Tennessee. Its purpose is to promote interest in plant identification, folklore, growing native plants from seeds and cuttings, landscaping with native plants, preserving natural areas and protecting rare plants.

MESSAGE FROM THE PRESIDENT

Those of you who missed the Great Smokies Wildflower Pilgrimage missed a "good-n". The weather was lovely and the flowers, while a little past their prime, were nice (we did see a few things not usually in late April). Several TNPS'ers attended and I wish to thank all who helped at the TNPS booth: Annie and Nita Heilman, Katherine Simmons (who again generously donated some of the proceeds from the sale of her corn shuck flowers to TNPS), Dennis and Sherry Horn, Sue Williams; and especially Shirley and Ed Nicholson who came down on Wednesday, got a space, set up the table, and then tended it Thursday until I could make it in. I also wish to thank Ruth Lassiter for helping me get the T-shirts in Oak Ridge and Mark Fuzek for preparing a lot of the materials we had for free distribution. It was a big success with the group efforts!

With all the "pilgrimages" finished, it may seem that the big meetings are done for the year. Not so! I wish to quickly bring two more to your attention. Though not in quite the same vein as the spring gatherings, I know they are of much interest to many. This July 28-30, in Cullowhee, North Carolina on Western Carolina University's campus, the "nth" annual Conference on Landscaping with Native Plants will be held. Interest is exploding in utilization of our wide array of natives. It behooves us to be active in bringing attention to our state's native flora while promoting its responsible use. That's what this conference is about--offering new ideas on how to find horticulturally available natives, giving tips on landscaping and nursery management, suggesting new plants for use, encouraging propagation in place of "baling hay" in our woodlands, and more. If you can, go to this meeting, but space is limited, so make your reservations soon. (There is a small registration fee, plus low cost lodging and meals. A very good deal.) The other meeting, the Mid-South Native Plant Conference, aided and abetted by the Cullowhee Conference, will be held for the first time, October 28-30, 1988, in Memphis at the Student Union Ballroom of Memphis State University. For further information on both meetings, please write to the following addresses:

Conference on Landscaping With Native Plants
Dr. Jim Horton
Department of Biology
Western Carolina University
Cullowhee, North Carolina 28723

Mid-South Native Plant Conference
c/o Mr. Larry Wilson
Lichterman Nature Center
5992 Quince Road
Memphis, Tennessee 38119

Try to make one of both of these. Either is guaranteed to be a "good'n".

--Scott C. Gunn
TNPS President

Editor's Note: If you are wondering why you did not receive a June newsletter, there wasn't one. The June and August issues are compiled into a "Summer 1988" issue. As most of you know, I tried to resign in December 1987. I returned for an encore, but could not promise the same quality and timely publication you were use to receiving. I have requested your cooperation, but I have not received it. As much as I regret it, I must do myself and the Society justice and officially resign as the Editor-in-Chief. My resignation has been acknowledged by Scott C. Gunn, TNPS President. Thank you for having given me the opportunity to have had this challenging and rewarding experience for the past 2½ years. Anyone desiring to take over this mammoth project should contact: Scott C. Gunn, 275 Stewarts Ferry Pike, H-3, Nashville, TN 37214; (615)885-4152 (H).

PILGRIMAGE--MEMBERSHIP--TREASURER'S REPORT

I wish to thank all of you who helped with the booth and/or hikes at the Wildflower Pilgrimage; especially Sue Williams, who filled in all day Friday for our TNPS President, Scott Gunn, who found himself leading a hike--something he had not planned to do; and to Nita Heilman, who always helps us in the evenings. At least five people joined TNPS on the spot, many took brochures and newsletters, and several renewed their memberships; 14 T-shirts were sold, a few notecards, and the coloring books proved popular, especially the one on weeds. Those were sold out--perhaps because they are what everyone knows best? As in the past two years, Katherine Simmon's cornshuck flowers were beautiful and sold well. Thank you, Katherine.

Probably because of the construction work next to the Gatlinburg Auditorium and the fact that the 'pilgrims' were meeting their leaders at designated points in or near the park, instead of in a parking lot near the auditorium as in past years, there did not seem to be as many people wandering about the auditorium as in past years. Yet we think we did well in spite of the smaller crowd.

At the present time, July 1, 1988, TNPS has a total of 320 paid members, 24 of whom are life members. We believe that the article in the April issue of Family Circle (April 26, 1988, Vol. 101, No. 6, pps. 89-93, 136, "Wildflowers For Your Own Garden") is partly responsible for an unusually large number of new members--at least it generated requests for general information about wildflowers and specific information about our organization. (Continued on page 3)

We also exchange newsletters with many other state native plant organizations. This entails a substantial amount of mail, and makes us think that a TNPS library would be possible and useful. However, the logistics of such a venture defeat us. Where should it be? Who would volunteer to store it? To organize it? To answer all of the requests which might come in? How will we continue as we are without Mark doing his usually excellent job of sampling and editing, and presenting us with the high points in the newsletter?

I wish to express my appreciation to all members for your cooperation in sending your dues on time, and especially to many of you who have been so generous in contributing extra money. We no longer have to draw on the life membership account for current expenses. That fund is where it should be, giving us some security for the future, but available when needed. A year ago this time, I was afraid we would run out of funds before the 1988 dues began coming in. We did not, and this year we have \$1569.00 in our checking account as of July 1, and that should see us through the remainder of this year's newsletters; our major expense, with some left over. We have our charter now--not a big expense, but our next step is to obtain our tax-exempt status. That will involve some legal fees, an audit, etc.

It has been the policy of TNPS to consider all membership fees coming in after July 1 as applying to the current year plus the following year. For example, if you paid your dues after July 1, 1987, your membership was considered current through 1988. However, at our last board meeting it was decided that this privilege would apply only to new members. It seemed that a number of people, either deliberately or unwittingly, were waiting to pay their dues after July 1, every other year, thus getting 2 years for the price of one. This is obviously not fair to other members who pay on time. Our membership year begins in January, with reminders in October and/or December, and then in February if necessary. The Board voted to send the February newsletter to all members, whether paid up or not, so there is a "grace period". But after that, if you have not paid, your membership expires, and you will not receive a newsletter. In fact, the computer may erase you!

I have one request to add, and that is to please notify us of any address change as soon as you have it, since the letters are not forwarded under postal regulations. They are returned to us, or the front page is returned at a considerable expense. If we then learn of your new address, we must send another copy at first class rate--(approximately \$2.15). It would also be helpful if you would give us your old address as well as the new one, because my list is compiled in ZIP code order, and I am the first person to handle the mail. Thanks for you cooperation.

--Shirley Nicholson
TNPS Treasurer

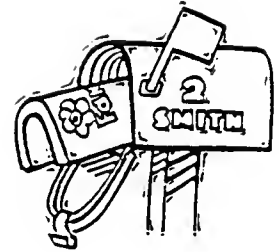
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"In its land and its history, the nation finds the things which give it continuity. By preserving places that have special natural, historical, cultural, and scientific value, we can insure that our children and grandchildren have a chance to know something of the America that we.....simply took for granted."

--President Carter, 1977

FROM THE MAILBOX.....

Following is a letter written to Ms. Carol Klinger, in response to her article entitled "The Great American Chestnut Revival", TNPS Newsletter, April 1988, Vol. 11, No. 2, p. 10:



Dear Ms. Klinger:

Near Grand Haven, Michigan there is a forest of mature chestnut trees (Castanea dentata) that bear burrs regularly. The grove was planted years ago and although trees are infested with the blight (Endothia parasitica), they are not noticeably damaged.

The grove has been studied over a period of years by Dr. Dennis Fullbright at the Department of Plant Sciences and Pathology of Michigan State University, East Lansing, Michigan 48824. His studies show that the trees are infected by a benign strain of the fungus which, being there first, blocks invasion of the virulent form. Sadly, as is increasingly the case with the needs of our swelling population for housing and jobs, the grove is in harm's way. Michigan United Conservation Clubs have been trying to spare the grove from the axe and bulldozer with indifferent success.

One would think in a case like this, where the very vitals of our American heritage are being torn out. State and Federal governments would exercise their powers of Eminent Domain. Certainly, governments find no difficulty in condemning land for highway construction. At risk is not only a grove of chestnut trees, but also a natural laboratory that may well hold the key to curing the chestnut disease before it is too late. I strongly suggest you and other interested persons write to Dr. Fullbright for his help on your project and also to see what can be done to save the trees.

John A. Churchill, M.D.
813 Forest Avenue
Johnson City, TN 37601

-----APRIL FIELD TRIP REPORT-----

SHORT SPRINGS NATURE AREA--April 10, 1988

WOW, what a turnout! In all, approximately 120 people joined us for a busy afternoon at the Short Springs Nature Area. Fifteen TNPS members along with several AFBees and TTA members and a huge crowd of local enthusiasts enjoyed a beautiful afternoon. We divided into five groups and recruited additional leaders. Thanks to Scott Young, 'Bus' Jones, Ed Schell, Marjorie Collier, Nita Heilman, Sherry Horn, and Mark Schempp for helping me as guides.

The waterfalls and dripping springs were below normal flow due to lack of rain. However, the wildflowers were near peak and provided a nice display. Among the many species found in bloom were barren strawberry (Waldsteinia fragariodes), Virginia bluebell (Mertensia virginica), Southern red trillium (Trillium sulcatum), large-flowered trillium (T. grandiflorum), Trillium cuneatum, large-flowered bellwort (Uvularia grandiflora), yellow mandarin (Disporum lanuginosum), pale violet (Viola striata), dwarf larkspur (Delphinium tricornis), Dutchmans' breeches (Dicentra cucullaria), and many, many more.

--Dennis Horn

-----MAY FIELD TRIP REPORT-----

CENTER HILL QUARRY SURPRISE--May 14, 1988

The group assembled at the picnic area below Center Hill Dam. A short walk took us to a quarry where limestone had been removed during dam construction. The floor was flat with cold spring water issuing from the base of the vertical rock cliff. The entrance was carpeted with pink stonecrop (Sedum pulchellum), and as we continued the surprise plant was located, Loesel's twayblade (Liparis loeselii). Only one or two of the lowest flowers in the raceme were open. The orchid is not showy, but is very unusual and is far from its normal range to the north.

We then drove along the Caney Fork River downstream of the dam. There we found the woolly pipe-vine (Aristolochia tomentosa) in full bloom hanging from the steep bluff. A special treat for all of us, was the Western wallflower (Erysimum capitatum) which is a mustard, and has large showy orange flowers. A plant of the Western prairies, Western wallflower occurs in only two or three counties in Tennessee. A young yellowwood tree (Cladrastis lutea) along the riverbank displayed its showy racemes.

After lunch, we visited Carmac Falls recently purchased by Robin and Angel Isaacs near Smithville. A steep descent took us to the bottom of a beautiful waterfall and to several plants of interest. Among those were Viola canadensis, V. hirsutula, Valeriana pauciflora, Epigaea repens (trailing arbutus), and Tsuga canadensis (Eastern hemlock).

The field trip participants were Chuck Wilson, Dennis Horn, Shirley and Ed Nicholson, B.F. and Jean Jones, Bonnie Green, and Bill and Frances Riggs. Landon McKinney was the leader.

--Dennis Horn

(A "Summer Orchids" August Field Trip was planned for August 14, 1988 in Van Buren County.)

-----SEPTEMBER FIELD TRIP-----

PACE POINT ON KENTUCKY LAKE (Benton and Henry Counties)

Date: Sunday, September 11, 1988

Time: 10:00 a.m. Central Time

Meeting Place: Meet at the local dairy dip on Hwy. 69A in Big Sandy. If traveling by I-40, take exit 126, go north on U.S. Hwy. 641 to Camden, then take TN Hwy. 69A to Big Sandy.

Leader: Nita Heilman, 429 Rivermont Drive, Clarksville, TN 37043; (615) 645-9338 (H) after 5 p.m.

Our main focus of attention will be plants found on the exposed mud flats at Pace Point on Kentucky Lake. There are only about a dozen different species to be found on the flats, but one of them, Heteranthera limosa (mud plaitain), is on the endangered list for Tennessee. The white, star-shaped flowers were first

noticed by birding groups who visit the area each fall to observe migrating shorebirds. In 1986, Dr. Edward W. Chester of the APSU Biology Department identified the plant, thus solving the "little white flower" question!

The mud plain should be at peak bloom for our visit. Expect a short wade of no more than a two-foot depth (probably only ankle deep) to get to the main mud flat. It will be hot with no shade where the most interesting plants are found. We will spend only 1-2 hours on the flats for this reason. The surrounding woods and fields offer additional opportunities for botanizing. Some plants to expect in bloom should include Heteranthera, Eleocharis (spikerush), Cyperus, Lindernia, Mollugo (carpetweed), Sagittaria, Ammannia and Rotala (toothscup), Justicia (water willow), Hibiscus (rose mallow), Cephalanthus (buttonbush), Bidens (tickweed), Eupatorium (blue ageratum), Gerardia, Lobelia (cardinal flower) and kudzu.

Bring your lunch, drink, wading shoes, sunhat, sunscreen, and camera for a late summer walk on the shoreline of Kentucky Lake! If you are interested in birding; don't forget your binoculars.

* * * * *

CLONING SPIRANTHES ODORATA 'CHADDS FORD'

Native terrestrial orchids are among the most attractive and coveted wildflowers, but are difficult to grow and propagate. With the exception of a small nursery in Maine owned by Scott O'Connor, who reports success in germinating the seed of Pink Lady's-slippers, all others sold commercially are dug in the wild. At Mt. Cuba, near Wilmington, Delaware, the home and garden of Ms. Lamont duPont Copeland, the species Spiranthes odorata 'Chadds Ford', blooms in October, November, and sometimes in early December,

The Fragrant Ladies'-tresses are a hardy terrestrial to semi-aquatic native orchid. The erect plant up to a meter tall has 3 to 6 leaves 30 cm in length and 2.5 cm wide. The spike is densely flowered, with small-tubular, two-lipped flowers arranged in spiral ranks. The scented flowers, with a fragrance of vanilla or cumarin, are waxy white, tinged with green or cream. They are found in the Southeastern United States, from Delaware to Florida to Texas.

In the late 1960's near Bear, Delaware, Dick Ryan rescued the original species from a wet ditch before it was destroyed by development. In 1973, Dr. Merlin Brubaker, a member of the Delaware Orchid Society, received the Certificate of Cultural Merit from the American Orchid Society for his divisions grown of Spiranthes odorata. He named the plant 'Chadds Ford' for the area in southeast Pennsylvania where he lived. In 1984, Mt. Cuba received their first pot of Spiranthes odorata 'Chadds Ford' from another Delaware Orchid Society Member, Gene Baker.

In their greenhouse, Spiranthes odorata 'Chadds Ford' is grown with 50°F temperatures at night with good air circulation, and a high morning humidity of 60 to 80%. The plants will grow in full sunlight, but tolerate light shading. The plant medium is a lightly packed (so air can reach the roots) 50/50 mix of shredded Osmunda fiber and sphagnum moss. They are grown in clay azalea pots. Drainage is provided with a bottom layer of crock covered with a layer of medium-sized charcoal.

The plants are watered daily and occasionally fed with half-strength of 20-20-20 Peters fertilizer, fish emulsion, or liquid seaweed. Slugs appear to be their only pest, which are controlled with metaldehyde.

The clone of Spiranthes odorata 'Chadds Ford' has the power to multiply fairly rapidly. The 1986 6" azalea pot was repotted to an 8" bulb pan in the spring of 1987. It produced 17 flower spikes with 36-58 flowers/spikes for a total of approximately 680 flowers by October 1987! About 60-80 volunteers also appeared in the pot! At this production rate, one 8" stock plant could produce up to 100 saleable plants in 24 months, so Spiranthes odorata 'Chadds Ford' may be a very good choice for commercial production. Further studies on seedly culture and propagation needs to be done.

(Condensed from WILD FLOWER NOTES 1988, New England Wild Flower Society, Inc., "One Clone That Thrives in the Garden and Greenhouse: Spiranthes odorata 'Chadds Ford'" by Philip R. Oyerly, Spring/Summer, Vol. 3, No. 1, pps. 47-51.)



WELCOME TO OUR NEW MEMBERS

Adams, A.T., Jellico, TN
Boggs, Jo Kaye, Boone, NC
Center For Plant Conservation,
Jamaica Plain, MA
Chiles, David, Cadiz, KY
Coffey, D.D.S., Carol T.,
Knoxville, TN
Drumwright, Mrs. R.Y.,
Sevierville, TN
Fleischer, Jean & Sharon,
Kingsport, TN
Funk, Margie, Knoxville, TN
Gamble, Bob, Watertown, TN
Gross, Bernard, Knoxville, TN

Henry, Tonya M., Chattanooga, TN
Kickman, Judy, Dyersburg, TN
Jackson, Louisa, Kingsport, TN
Kington, Sharon, Lobelville, TN
Maples, Barbara F., Old Hickory, TN
McMahon, Susan, Old Hickory, TN
Mello, Christopher D., Asheville, NC
Peden, Nancy, Nashville, TN
Pratt, Sam & Eva, Inman, SC
Rickert, Patricia D., Kingston, TN
Weinstein, Miriam K., Nashville, TN
Wilson, Mrs. Joe, Carthage, TN
Yoest, David, Watertown, TN

(Ed. My apologies for anyone whose name has been omitted. If any of you did not receive a February or April 1988 issue of the TNPS Newsletter and desire them, please send your request to: Tennessee Native Plant Society, Department of Botany, The University of Tennessee, Knoxville, TN 37996-1100.)



potpourri

Did You Know? Over the last 25 years, researchers have isolated such valuable drugs as vincristine, used to treat childhood leukemia, from Madagascar's rosy periwinkle; digitalis, a heart stimulant from foxglove; and etoposide, used to treat lung cancer, from the American mayapple. (International Wildlife, "How Plants Fight Back", by Mary Batten; July/August, Vol. 18, No. 4,

CONSERVATION NEWS The following rare plants have been recently listed or proposed for listing under the U.S. Endangered Species Act: Hexastylis naniflora--dwarf-flowered heartleaf; Saracenia rubra alabamensis--Alabama canebreak pitcher-plant; Solidago albopilosa--white-haired goldenrod; Thalictrum cooley--Cooley's meadowrue; and Trillium reliquum--relict trillium. (American Horticulturist News Edition, a publication of the American Horticultural Society, September 1988, Vol. 67, No. 9, p. 16.)

PROJECT TO DOCUMENT VASCULAR PLANTS The Flora of North America Project, based at the Missouri Botanical Garden in St. Louis, will be the first synthesis of current information about the characteristics, relationships, and distribution of the vascular plants (flowering plants, gymnosperms, ferns and fern allies) of North America north of Mexico. The twelve-year project recently received a grant of \$225,900 from the National Science Foundation; it will result in 12 published volumes and a computerized database. There is no current all-encompassing collection of information on plants in North America such as exists in the U.S.S.R. and Europe. (American Horticulturist News Edition, a publication of the American Horticultural Society, September, 1988, Vol. 67, No. 9, p. 16.)

LEAVE THE HONEY BE TRABZON, Turkey--It's natural, it's delicious, it's wholesome--it's the last thing you'd expect to put you in the hospital. Yet three Turkish doctors report they recently have treated 16 people felled by 'mad honey', nectar containing toxic pollen from rhododendrons. "Doctors have mistaken the symptoms for a heart attack," says Kenneth Lampe, a Chicago pharmacologist who has studied flower toxins. "Your heart rate drops, and you feel dizzy, nauseous, and may go into convulsions. But you usually recover completely within twenty-four hours." Honey poisoning is unusual in North America--mainly because most honey producers here blend such vast amounts of the natural sugar that any traces of rhododendron pollen are diluted. It's more usual in parts of eastern Europe and--as the recent report demonstrates--Turkey, where these flowers dot the countryside and there are more beekeepers who have only a few hives and make their own honey. In some regions of Oregon and Washington, though, honey poisoning is common enough that whenever a small outbreak occurs, says Lampe, hospitals will post emergency room signs reminding doctors to consider it when diagnosing an apparent heart attack. Not all rhododendrons are harmful, but some species such as the western azalea and the California rosebay, and related flowers such as the mountain laurel and sheep laurel, are quite toxic. How do you know if that jar you just bought at the farmers' market or the gourmet food store is the 'mad' stuff? Take a tiny taste, says Lampe. "If it tingles or burns around your lips, it's suspect." (The Magazine of Health & Medicine HIPPOCRATES, "Vital Signs", July/August 1988, Volume 2, Number 4, pps.10-11.)

NEWS FROM HERBARIA Memphis State University (MEM): E.T. Browne, Jr., Curator of the Raymond Athey Herbarium (MEM) took disability retirement on October 1, 1987. Guy L. Nesom of MEM has resigned to become Curator of the Herbarium, Department of Botany, University of Texas-Austin. Consequently, MEM is no longer being curated. Borrowers have been asked to return their loans, and no more loans are being made. Persons may still examine MEM collections, but those wishing to do so should write well in advance of their anticipated arrival. Institutions having exchanges with MEM should not send any more specimens. MEM will try to repay all exchange deficits. MEM is particularly rich in collections from Kentucky and West Tennessee and contains the H.P. Riley South African Herbarium and one set of the Thomas N. McCoy Kentucky Fern Herbarium. Only several minor types

are contained in this herbarium. Mounted specimens amount to approximately 20,000 sheets at this time. Persons wishing to use MEM facilities or specimens should contact Dr. James F. Payne, Director, Chairman of Department of Biology, Memphis State University, Memphis, TN 38152; (901)454-2955. (Flora of North America Newsletter 2(3):22.)

BLOOMING BULB TRADE ENDANGERS WILD SPECIES. Increasing imports of wild bulbs for U.S. gardeners is threatening the survival of some foreign species, according to recent reports from the World Wildlife Fund (WWF) in Washington, D.C. The report says that from 1982 to 1987, the number of bulbs imported to the U.S. rose from 550 million to about one billion; the value of these imports was \$140 million in 1987, more than triple the value of imported bulbs five years earlier. Most of these are hybrids produced in nurseries, especially the Netherlands. If the flowers that attract you have florid common names or are identified as hybrids, you should feel free to buy them. Also, grape hyacinths, most crocuses, and the alliums usually are propagated in nurseries. However, bulbs labelled as wild, species or botanicals, and many of the small, early-blooming types may have been collected in Turkey, Spain, South Africa, Central America, or even in the United States. But, "few of these wild species are protected or regulated under international or national laws, which could leave them vulnerable to being exhausted by collectors and traders," says Ginnette Hemley, director of TRAFFIC, WWF's trade monitorious arm. Internationally, Cyclamen are the only species regulated under the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES), and some countries are not signatories to CITES. According to Hemley, wild bulbs originating in Asia Minor and the Mediterranean are the most threatened. WWF suggests that before buying bulbs, gardeners should ask suppliers whether their bulbs had been propagated or taken from the wild, not just obtained from commercial sources. Examples of wild species include the crown imperial (Fritillaria imperialis), snowdrops (Galanthus ssp.), angel's tears (Narcissus triandrus albus), the sea daffodil (Pancratium maritimum), Tulipa pulchella humilis, all Cyclamen species (except C. persicum), and various Crocus species. (BioScience, a publication of the American Institute of Biological Sciences), Vol. 38, No. 7, July/August 1988, p. 519; and Fremontia (Journal of the California Native Plant Society), Vol. 16, No. 1, April 1988, p. 28.)

FEELING ANTSY? TRY THIS LATEST TONIC. If you're looking for the ultimate health food drink, the Chinese have just the thing: ant juice. A delicacy in China for 3,000 years, ants contain as much protein as soybeans, according to The China Daily. Also rich in trace elements, such as zinc, ant juice is touted as a cure for all sorts of ailments. There's just one hitch: the elixir may also add inches to the waistline. Ants, the newspaper says, have 4 times as many calories per unit weight as beef!

NEW HAMPSHIRE PASSES ENDANGERED PLANT LAW. New Hampshire recently joined the ranks of states with endangered plant laws when its legislature passed "The New Hampshire Native Plant Protection Act of 1987." Twenty-six other states have endangered plant legislation. The act authorizes adoption of a protected species list and establishment of programs to protect listed species, including those to do with land acquisition and regulation of commercial sale. Removal or destruction of any listed plant from the property of another person or from publicly owned property without appropriate state and federal permits is now prohibited by law with the passing of the act. (The Center Notes, The Center for Plant Conservation, Vol. 3, No. 2, Spring 1988, p. 5.)

DROUGHT is not only effecting Tennessee. In Texas, farmers are also experiencing drought. On the "Today Show" (NBC-TV) on May 17, 1988, they were shown burning the spines off of cactus plants so that the cattle could eat the plants!

BUCHTER LEAVES NEW ENGLAND WILD FLOWER SOCIETY. Thomas Buchter, Executive Director of the New England Wild Flower Society, headquartered at Garden in the Woods in Framingham, Massachusetts, has resigned from his position to begin a new job as Deputy Director of Gardens and Grounds at Winterthur Museum and Gardens in Winterthur, Delaware in June. Buchter headed the Society for four and a half years, helping to make it a leader in plant conservation and wild plant propagation in the Northeast. Buchter says he remains excited about the Society and its potential growth, and the positive effect it will have on New England in the coming years. (The Center Notes, The Center for Plant Conservation, Volume 3, Number 2, Spring 1988, p. 4.)

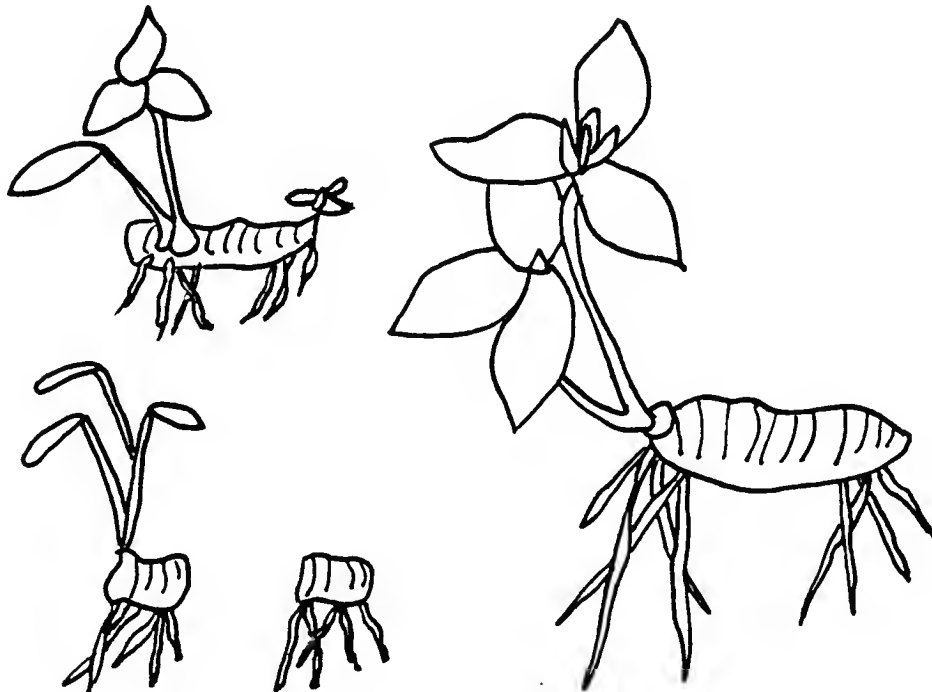
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TRILLIUM LUTEUM PROPAGATION REPORT

Some of our long time members may remember mention that Tom Patrick and I were doing some experimentation with Trillium luteum that we obtained in a plant rescue effort (TNPS Newsletter, Vol. 9, No. 3, June 1986, p. 11 with the article entitled "Plants Spared Death By Rescue Efforts!"). Our experimentation was to try to force propagation by division of the rootstock, as described by Montague Free in his book Plant Propagation in Pictures, 1957.

A pie-shaped notch was made and removed in each rootstock as an effort to injure and force it to produce more than one flowering shoot. Below are drawings of three of the rootstocks that appear to have responded. The only controls were those Trillium growing in their natural habitat, and they did not demonstrate any of the below characteristics. It is questionable whether or not our drought had some effect, and the results were an effort to preserve the rootstock. The experimental rootstocks were grown in terra cotta pots and probably were dryer than the ground. Indeed, further studies need to be done to discover the effects of all of the variables.

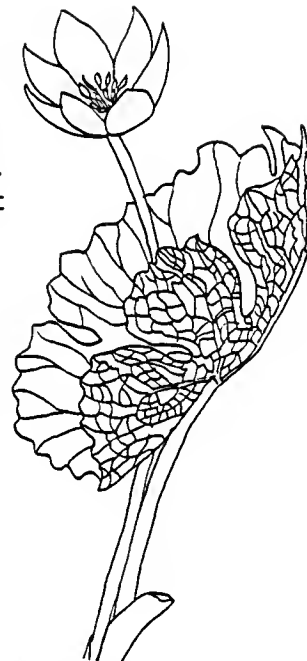
--Mark L. Fuzek



A NEW USE FOR A BEAUTIFUL PLANT

Bloodroot (*Sanguinaria canadensis*)

Sanguinarine, an extract from bloodroot (a common spring-flowering plant throughout the midwest), could be the most important discovery for dental care since fluoride, according to the October (1986) issue of American Health magazine. This substance interferes with bacteria's ability to convert carbohydrates into plaque, a gum-eating acid. It also blocks the enzymes that destroy gum tissue. According to Webster's Dictionary, "the rhizome and roots of the plant are used as an expectorant and emetic."



A toothpaste, "Viadent", has recently appeared in our markets which is advertised "to provide special benefits not found in any conventional toothpaste..." One of these benefits is "a plaque fighting formula to help reduce the build up of dental plaque." The ingredients listed are: "Dicalcium Phosphate, Water, Glycerin, Sorbitol, Titanium Dioxide, Hydrated Silica, Zinc Chloride, Sodium Lauryl Sulfate, Carrageenan, Flavor, Sodium Saccharin, Citric Acid, Sanguinaria Extract." While there are many other toothpastes which claim to fight plaque, we found no others which listed Sanguinaria as an ingredient. A mouthwash of the same name is also available in stores. Unlike chemical-based anti-plaque treatments, the sanguinarine rinse (or toothpaste) does not stain teeth.

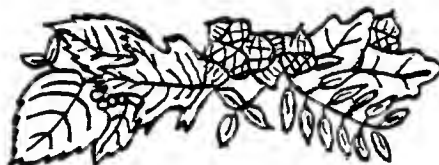
Sanguinaria canadensis is a member of the Poppy Family and blooms from March to May in rich neutral or moderately acid soil in moist woods. Its beautiful white flowers are a lovely contrast to its blue-green, lobed leaves. It gets its common name from the red juice that exudes from its broken stems. The rhizomes contain an even greater amount, as the common name implies.

Eastern Indians used bloodroot juice as war paint and dye for clothing and basket fibers. They harvested the rhizomes in the autumn. When needed, they were brewed into a tea to treat rheumatism. The juice was also employed in various forms as a remedy for jaundice, sore throat, catarrh, and ringworm. A small dose was supposed to act as a tonic, stimulating the digestive tract. In larger doses, the juice could be a narcotic. (Reprinted with a few modifications from the Northern Nevada Native Plant Society Newsletter, Vol. 14, No. 5, June 1988, p. 7; adapted from the Kansas Wildflower Society Newsletter, Spring 1987; and The Bulletin Board of The Nature Conservancy, January 1988.)

Permission is hereby granted to reprint material contained within this Newsletter, provided proper credit is given to the author/editor and to the Tennessee Native Plant Society, Department of Botany, The University of Tennessee, Knoxville, TN 37996-1100.

CALENDAR OF EVENTS

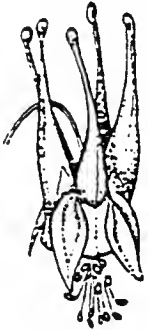
- September 9-11 26TH ANNUAL ROAN MOUNTAIN NATURALIST RALLY, Roan Mountain State Park. Be sure to come to Roan Mountain for this special weekend of guest speakers and naturalist guided hikes as the vibrant colors of the fall flowers grace the slopes of the mountain. Contact: Carter County Chamber of Commerce, Elizabethton, TN 37643; (615)543-2122.
- September 11 TNPS FIELD TRIP TO PACE POINT ON KENTUCKY LAKE (BENTON AND HENRY COUNTIES) Leader: Nita Heilman, 429 Rivermont Drive, Clarksville, TN 37043; (615)645-9338 after 5:00 p.m. Details in this Newsletter.
- October 8 NATIVE PLANT SALE TO BENEFIT IJAMS AUDUBON NATURE CENTER. 9:00 a.m. to 3:00 p.m. Eastern. (Rain date is Sunday, October 9th from 10:00 a.m. to 4:00 p.m.) 12 plus nurseries, hundreds of plants--native species (perennials, shrubs, trees) plus unusual perennials, ferns, grasses, etc. Garden books and implements for sale. Refreshments. Call or write for more information and/or a pre-order list: Ijams Audubon Nature Center, 2915 Island Home Avenue, Knoxville, TN 37920; (615)577-4717.
- October 15 FALL FESTIVAL AND PLANT SALE. A special event day including fall crafts and demonstrations, plus a fall wildflower, trees and shrubs sale. Contact: Jill Norvell, Lichterman Nature Center, 5992 Quince Road, Memphis, TN 38119; (901)767-7322.
- October 21-23 AUTUMN OUTDOORS WITH CHARLES E. ROTH, Director of Education for the Massachusetts Audubon Society, author of The Wildlife Observer's Guidebook, The Plant Observer's Guidebook, and The Sky Observer's Guidebook. "Two Days of Honing The Art of Seeing". FREE public lecture on October 21, 7:00 p.m. Eastern, Warriors' Path State Park, P.O. Box 5026, Kingsport, TN 37663. \$25.00 registration fee for the ROTH WORKSHOP. Make checks payable to: Warriors' Path State Park; or call (615)239-8531 for further information.
- October 22-23 FALL COLORS WEEKEND at Fall Creek Falls State Park. Bicycle tours of the park, walks, hikes, and slide show focus on the autumn splendor of Fall Creek Falls. Contact: Fall Creek Falls State Park, Rt. 3, Pikeville, TN 37367; (615)881-3708 (Nature Center).
- October 28-30 MID-SOUTH NATIVE PLANT CONFERENCE--"Using Native Plants in the Landscape" sponsored by Cullowhee Landscaping with Native Plant Conference, Memphis Botanic Garden Foundation, Memphis Horticultural Society, Memphis Museums, Tennessee Valley Authority, West Tennessee Nurserymen's Association, and the Wild Flower Society. It will be held at the Memphis State University Center Ball Room. \$55.00 per person (includes registration; lunch and dinner on Saturday; Friday night reception; and a T-shirt). Pre-register by October 1, 1988. Mail fees to: MSNPC, Lichterman Nature Center, 5992 Quince Road, Memphis, TN 38119. For further information, call Jennifer Smith, (901)685-1574.



October 29 WILD FOODS DAY at Falls Creek Falls State Park. Field trips demonstrating edible wild plants, a workshop on preparing wild meats, and a fish canning workshop are just part of the activities. The real treat comes in enjoying the wild feast. Contact: Nature Center, Fall Creek Falls State Park, Route 3, Pikeville, TN 37367; (615)881-3708.

November 5-6 BACKPACKING AT FALL CREEK. Join the naturalist for a hike to a remote portion of the park amid the autumn colors. Rental equipment available from local outfitters. An adventure you will not want to miss. Contact: Nature Center, Fall Creek Falls State Park, Route 3, Pikeville, TN 37367; (615)881-3708.

PLANT/SEED SOURCES



VIGOROUS, NURSERY-GROWN WILDFLOWERS for all wildflower gardens, rich or poor soil, shady or sunny conditions, natural areas or established gardens. Showy, reliable, and easy. 40-page booklet describes species, gives cultural requirements, and suggests landscape uses and combinations of "Wildflowers, Ferns, and Perennials of Eastern North America" from frost to frost--\$1.00. SUNLIGHT GARDENS, Route 1, Box 600-A, Hillvale Road, Andersonville, Tennessee 37705. We also offer complete landscaping services using native plants. Call (615)494-8237. [Please note change of address.]

SINKING SPRINGS
GARDENS

Route 7 Box 173 Clinton, TN 37716
Phone (615) 457-1864
Jim & Mearl Macres

The NEWNESS of our entry into the nursery business has just about worn off. We feel that we have learned alot about what you want in the way of native wildflowers and have increased our propagated supply along those lines. We are adding some rock garden and alpine plants to our stock. We want to thank everyone that has come to just visit our gardens and/or patronize our nursery. You are still welcome to come anytime. Please just give us a

call for directions, and to let us know when to expect you. We are planning to ship this year. For a list of our plants, please send a SASE to: SINKING SPRINGS GARDENS, Route 7, Box 173, Clinton, TN 37716. Call (615)457-1864. [Ed. Please note change of mailing address. They have not moved.]



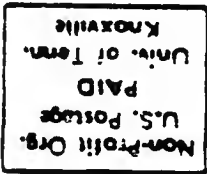
Home Grown Wildflowers. Traditional Garden Perennials. Large selection of plants and seed available. Quality guaranteed. Catalog \$1.00, refundable with order. NATURAL GARDENS, 113 Jasper Lane, Oak Ridge, TN 37830.

The Tennessee Native Plant Society Newsletter is published bimonthly (Feb., Apr., June, Aug., Oct., Dec.) in cooperation with the Department of Botany, The University of Tennessee, Knoxville, Tennessee 37996-1100. Please notify us of change of address six weeks in advance. Back issues available at \$1.00 each.



Editor-in-Chief
Mark L. Fuzek
Contributing Artist
Claudia Denton
(Passionflower)

THE UNIVERSITY OF TENNESSEE
BOTANY DEPARTMENT
KNOXVILLE, TENNESSEE 37996-1100
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TENNESSEE NATIVE PLANT SOCIETY

EXCLUSIVE WILDFLOWER GARDEN SCARF reminiscent of an English country garden with flowers and butterflies, colorful critters and creeping vines, designed by artist Elizabeth Golz Rush. Made in the USA of washable poly-blend. 44" x 17". Catalog No. 39709 Wildflower Garden Scarf \$9.95 plus \$2.75 shipping charge. Send name, address, daytime phone number, and quantity with check to: National Wildlife Federation, 1412 Sixteenth St., N.W., Washington, DC 20036-2266. (Also VISA and MASTERCARD--send card number and signature.)

WILDFLOWERS ACROSS AMERICA. Although her love of flowers goes back to her childhood among the bluebonnets of Texas, it was during her years as First Lady that Lady Bird Johnson became a key figure in the Beautification Movement, using her dedication to enhance the beauty of the nation's capital and eventually the entire country with native flowers and greenery. Since that time wildflowers have become her passion. On her seventieth birthday, Mrs. Johnson founded the National Wildflower Research Center with the aim of encouraging the use of more native plants and wildflowers in America's landscaping. WILDFLOWERS ACROSS AMERICA is written in association with horticulturist Carlton Lees. It is an emphatic argument for the preservation and proliferation of the natural beauty of America's native flora. It illustrates hundreds of wildflowers in color by region. The book also deals with such practical matters as establishing your own wildflower meadow. 250 illustrations, 200 in color. 288 pages, hardbound. \$39.95.

POSITION AVAILABLE: Seeking an Editor-in-Chief for the Tennessee Native Plant Society Newsletter. A challenging and rewarding experience. If interested, contact: Scott C. Gunn, TNPS President, 275 Stewarts Ferry Pike, H-3, Nashville, TN 37214; (615)885-4152 (H).



TENNESSEE NATIVE PLANT SOCIETY NEWSLETTER

Volume 11 Number 4

November 1988

ELECTION OF OFFICERS FOR 1989

Candidates for all elected offices and three of the six Directors-at-Large are presented below. These nominations are for two year terms, from January 1989 through December 1990. The three continuing Directors-at-Large will be up for reelection in 1990:

Duane Houck, Collegedale (East Tennessee)
Kay Jones, Columbia (Middle Tennessee)
Lois Lord, Jackson (West Tennessee)

Our Constitution and Bylaws Article VII Section 3 (b) and (c) state: "In addition to nominations by the Nominating Committee, any eligible member may also be nominated by written petition of not less than 10 members received by the Chairman of the Nominating Committee . . . accompanied by written consent of the nominee to be a candidate and to serve if elected." Therefore, the official slate of candidates will remain open for additional nominations until November 30, 1988. If you wish to nominate others to positions below, forward the required petition and consent of the nominee to the Nominating Committee Chairman, Dennis Horn, 222 Crestwood Drive, Tullahoma, TN 37388. Nominations must reach the Chairman by November 30 to be considered.

If further nominations are received and verified, ballots will be distributed for an election. If not, the official candidates listed below will be declared elected and will take office on January 1, 1989.

The Candidates

For President: John Churchill, M.D., Johnson City
For Vice-President: John Warden, Johnson City
For Corresponding Secretary: Andrea Shea, Nashville
For Recording Secretary: Nita Heilman, Clarksville
For Treasurer: Shirley Nicholson, Knoxville
For Directors-at-Large:
East Tennessee: Edward Schell, Johnson City
Middle Tennessee: Dennis Horn, Tullahoma
West Tennessee: Tom Heineke, Memphis

All of the above candidates have been contacted and they are willing to serve, if elected.

Respectfully submitted by the Nominating Committee: Dennis Horn (Chairman), Nita Heilman, and Paul Somers.

MESSAGES FROM THE PRESIDENTS

Messages from both the 1988 president and the 1989 president will hopefully appear in the next NEWSLETTER.

FIELDTRIP REPORT: SUMMER ORCHIDS (Van Buren County, August 14, 1988)

It was a hot Sunday afternoon that Nita Heilman, B.F. and Jean Jones, Mary Schaffner and Dennis Horn gathered on the Counthouse lawn in Spencer for the TNPS orchid fieldtrip. The first stop was about 6 miles south of town along an abandoned powerline. We found *Platanthera integrilabia* (monkey face), *P. ciliaris* (yellow fringed orchid), and *Spiranthes tuberosa*, the smallest of all of the Tennessee species of *Spiranthes*. We also saw *Lobelia canbyi*, a Tennessee rare plant, and *L. spicata*, a more common one. Also in flower were three sunflower species: *Helianthus silphioides*, *H. angustifolius*, and *H. hirsutus*. We also found cowbane (*Oxypolis rigidior*), marsh pink (*Sabatia campanulata*), both meadow-beauties (*Rhexia virginica* and *R. mariana*) and blue-hearts (*Buchnera americana*).

While Mary Schaffner was busy taking wildflower photographs, the rest of us drove back to Spencer to look for a pond reported to have a white cardinal flower growing near the edge. We went to the wrong pond but did find large specimens of the regular cardinal flower as well as *Spiranthes vernalis*, *Eryngium prostratum* and other interesting pond species.

Dennis Horn

A NOTE FROM THE NEW EDITOR

Greetings! By now you have noticed the NEWSLETTER is drastically reduced in size and content from the many-paged volume formerly put out by Mark Fuzek. It will remain this Slim Jim until someone else in Knoxville volunteers to take over where Mark left off.

From now on the NEWSLETTER will consist largely of field trip plans, field trip reports, the president's message, the annual schedule, and short notes submitted by members. Please send materials by the fifteenth of the month (January, March, May, July, September, November) to me at this address: TNPS NEWSLETTER, 1216 Dukesbury Road, Knoxville, TN 37919.

Karen Y. Yarbro
(615-691-0077).

ABOUT TNPS AND THE NEWSLETTER

The Tennessee Native Plant Society was founded in 1978 as a botanical club for all persons interested in the native flora of Tennessee. Its purpose is to promote interest in plant identification, folklore, growing native plants from seeds and cuttings, landscaping with native plants, preserving natural areas, and protecting rare plants. The Tennessee Native Plant Society NEWSLETTER is published bimonthly (February, April, June, August, October, December) in cooperation with the Department of Botany, The University of Tennessee, Knoxville, Tennessee 37996-1100. Please notify us at the Department of Botany of any change of address six weeks in advance. Back issues of the NEWSLETTER are available at \$1.00 each.

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