

NORTH
CAROLINA

wild flower

PRESERVATION
SOCIETY, INC.



NEWSLETTER

FALL 1977

NORTH CAROLINA WILD FLOWER PRESERVATION SOCIETY, INCORPORATED

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ILLUSTRATIONS

Seaside Goldenrod on front cover by Ann Stronach.
Other goldenrods, ragweeds, and Dicentra Discovery
by Jane Mellin. Venus' Fly-Trap by Katsu Kondo.

President's Message

At last our Propagation Handbook is completed and we should be congratulated for making a significant contribution on behalf of real conservation of native plants. The patience of the membership is most appreciated during this period, for the Handbook has meant a disruption in the twenty-five year tradition of two regular Newsletters each year. The Society's Treasury would not support the cost of regular publication during the period. With this present issue we resume our regular schedule of publications.

Now it falls upon us to continue our efforts directed toward preservation of our native species. Immediately, there are two areas in which we may actively function as interested members of the N.C. Wild Flower Preservation Society. Since we have merely scratched the surface with our propagation information, we are responsible for continuing individual efforts toward propagating more different species and keeping adequate records enabling us to describe specifically how each can be reproduced. Each regular issue of the Newsletter should include several specific articles from the membership concerning successes and as importantly, failures. The responsibility lies with each individual member; newsletter editors should not have to prod the membership for each issue.

The other area in which we may contribute is in cooperation with the State Department of Transportation (DOT), which has made some commendable efforts on the part of endangered species. However the mowing situation along some of the state's colorful roadsides is in need of aid. You may have been distressed by recent complete mowing of areas full of wild flowers at their peak of bloom which eliminates current beauty and the production of seed which would have provided more plants for subsequent years. Maintenance of desirable native

plants along our highways is not an easy task and in fact is in need of considerable research (see Nancy Doubrava's article in this issue). If you are concerned, make yourself known to:

Mr. J. A. Saunders
Head of Landscape
State of North Carolina
Department of Transportation
Raleigh, N. C. 27611

You should also ask for an introduction to the landscape engineer responsible for your particular state area. You will most likely be pleasantly surprised by a friendly response. You will then need to be able to advise the local authorities regarding the specific roadside areas that already support desirable showy wild flowers. You should, from your years of enjoying such areas, be able to aid in determining the best times of year for minimal mowing. Perhaps DOT will identify such areas with signs designating reduced mowing for encouragement of species already present. Local wild flower groups, responsible garden clubs, or individuals may function as volunteer roadside monitors in cooperation with DOT. Offer to lead field trips for the maintenance crews to aid them in identification of desirable species. Voice your concern, but keep foremost in your thoughts that your concern is for naught if you are not willing to support it with active volunteer efforts on behalf of our natural roadside heritage.

Ken Moore
President

S E P T E M B E R

The goldenrod is yellow,
The corn is turning brown,
The trees in apple orchard
With fruit are bending down.

The gentians' bluest fringes
Are curling in the sun;
In dusty pods the milkweed
Its hidden silk has spun;

The sedges flaunt their harvest
In every meadow nook,
And asters by the brookside
Make asters in the brook.

From dewy lanes at morning
The grapes' sweet odors rise;
At noon the roads all flutter
With yellow butterflies-

By all these lovely tokens
September days are here
With summer's best of weather
And autumn's best of cheer.

Goldenrod
Solidago
fistulosa

Helen Hunt Jackson

GOLDENROD-SOLIDAGO L.

by

Margaret W. Lamm

One of the brightest spots along our roadsides and railroad tracks in late summer and fall is the display made by the various species of goldenrod.

According to Wilbur H. Duncan, Wild-flowers of the Southeastern United States, it is extremely difficult to place plants into this genus with certainty because distinguishing characteristics are troublesome and differences between the fifty or more species in the Southeast are hard to interpret.

Neltje Blanchan, in Nature's Garden, lists eighty-five species of goldenrod, with a few straying into Mexico and South America, and only two or three belonging in Europe. Mrs. Blanchan specifies that certain of the commoner goldenrods have well defined peculiarities that a little field practice soon fixes in the novice's mind.

The white goldenrod (Solidago bicolor) that blooms from September through October is easily identified. It is our only albino, more properly referred to as silverrod. Its cream-white florets grow in little clusters up a hairy, gray stem six inches to four feet high. It is native to much of the eastern United States.

When crushed in the hand, the dotted, bright green leaves of the sweet goldenrod (S. odora) cannot be mistaken, for they give forth a pleasant anise scent.

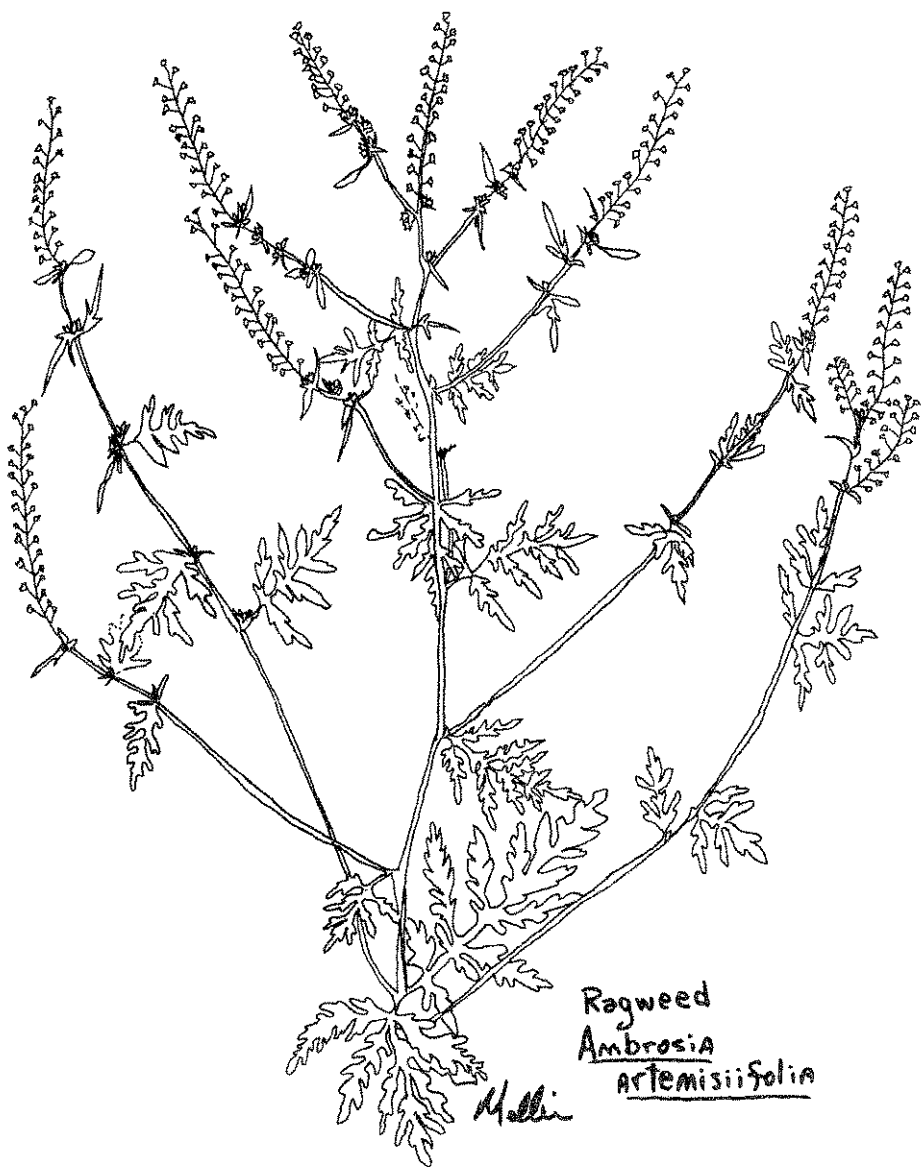
Perhaps the commonest of all the goldenrods is the brilliantly colored field goldenrod (Solidago nemoralis). The rich, deep yellow of the florets is set off by the grayish-green leaves in the open, sterile places where it is found. It grows in old fields, pastures, waste ground, and on roadsides.

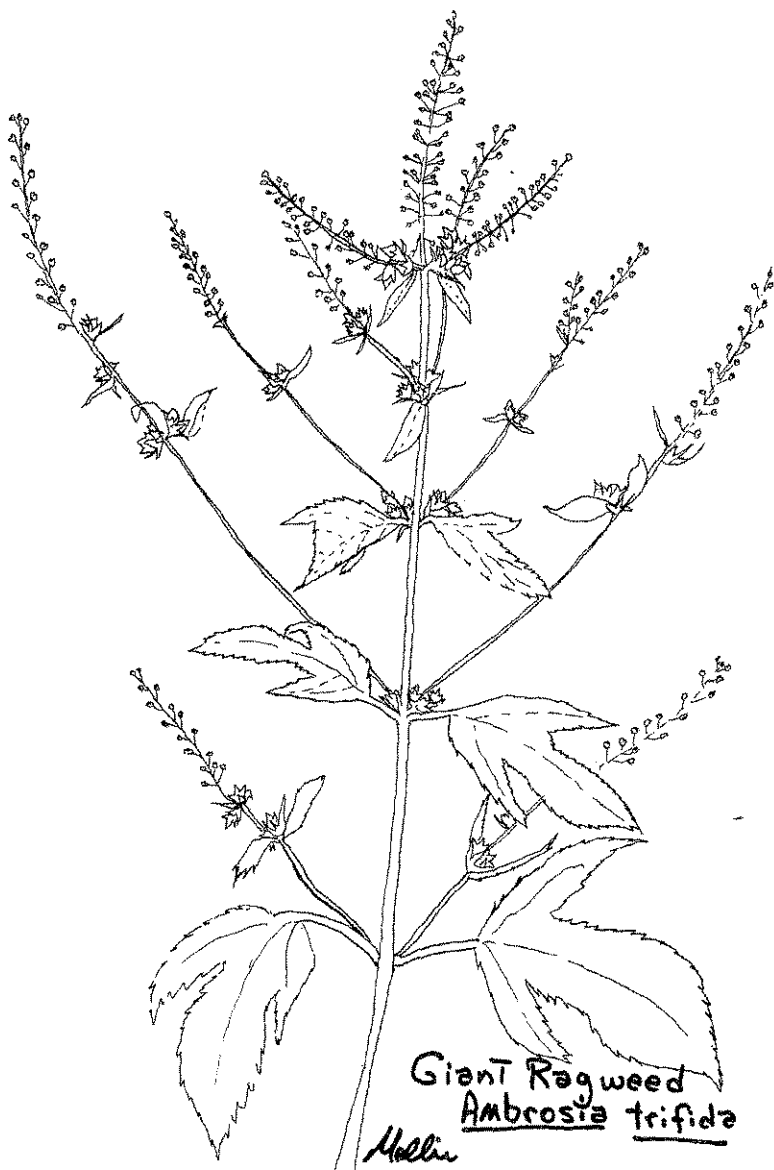
Showing their seed heads in our garden now are six plants of the S. sempervirens (seaside goldenrods). These plants were given to us at a meeting held last spring at the North Carolina Botanical Garden in Chapel Hill. They have flourished in somewhat adverse conditions, particularly dry weather, which speaks highly for the nature of this plant.

Jill Adelman, in The New York Times, (Aug. 21, 1977), reminds us that it is not goldenrods that cause hay fever, but ragweed.

Goldenrods belong to the vast family of Compositae, flowers in reality that are made up sometimes of hundreds of minute florets. Stated by Mrs. Blanchan, this association of florets makes a far more conspicuous array than a single flower, being much more attractive to the "lover of roadsides," and may be seen by insects at a great distance. Most of the composite plants live in large colonies, each plant, as well as each floret, helping the others in attracting insects. Insects are almost certain of being able to collect pollen and nectar with ease. When insects alight, they necessarily touch several florets, thus cross-pollinating them by simply crawling over a head. This explanation makes it easier to understand why

we are privileged to see, as Mrs. Blanchan termed it, 'whole acres transformed into 'fields of the cloth-of-gold', adding the final touch of imperial splendor to the autumn landscape. "





Giant Ragweed
Ambrosia trifida

Hollis

MORE ABOUT GOLDENRODS

by
Ken Moore

The harsh winter of '76-'77 and the heat and drought of '77 were a true test in selecting hardy and drought resistant plants. Once again Goldenrods have proven their worth. They are not responsible for the hay-fever problems so often attributed to them because people are unaware that Ragweeds growing unnoticed nearby are the real culprit. Ragweed has no noticeable colorful flowers but rather numerous clusters of pollen producing stamens.

The Goldenrods are so easily grown from seed and subsequently established as perennials that there is no excuse for their being absent from wildflower gardens, perennial borders, and roadside plantings. English gardeners recognized their excellence hundreds of years ago.

Seeds of the sea-side goldenrod, Solidago sempervirens, (mentioned elsewhere in this issue) were sown at the Botanical Garden at Chapel Hill during December 1976 in the greenhouse. They germinated immediately on a normal sand/peat mixture. They were removed to individual styrofoam cups as soon as large enough to work with and subsequently distributed to interested visitors and members of the Wildflower Society. After a hot summer with little moisture, each plant is producing a single tall flowering stem this fall and by next fall should be a robust multi-stemmed specimen. The sea-side goldenrod is normally a common plant of the coastal sand dunes and thus conditioned as a good drought resistant subject for a backyard garden. It is also a late bloomer and thus extends color in the garden well into late fall. Use care in cultivation. It normally grows to a compact 2 to 3 feet on the sand dunes. With too much attention in the home garden it will easily reach 6 to 7 feet and thus need staking. Starve it and keep it dry to keep it compact.

Another spectacular goldenrod of the eastern part of the state is S. fistulosa, which could be called savannah goldenrod since it is commonly found in the pine savannahs where we usually are more intent in observing fringed orchids and Venus Fly Traps. It is tall and pyramidal like Solidago altissima (4 to 6 ft.) but exhibits a richer golden-yellow color. It is at it's peak of flowering during mid to late September. Seed collected when mature and kept dry in a cool place and planted in seed bed outdoors in early spring should produce a flowering specimen by the following fall.

The tall airy goldenrod S. rugosa, is widespread in its distribution and very variable in its growth habit. One form of it is very open and horizontal in its inflorescence branching, making it one of the most striking and unusual of plants in the garden and offers unparalleled potential in fall flower arrangements. The dark green rough textured basal foliage which appears while it is still in flower forms an evergreen mat during the winter months and thus is useful as a ground cover. But remember that by summer's end it reaches 3 to 4 feet so it is a ground cover for a rear location. A one square foot mat of S. rugosa was divided by a volunteer worker at the Botanical Garden during December 1976. All stem sections which had any roots were set in three inch pots and mulched outside in the container nursery. Unrooted basal stems were stuck in moist sand in the greenhouse; these rooted within a few weeks and subsequently potted up as the other plants. In spite of the severe winter all of the divisions and cutting survived to produce more than 50 individual plants for distribution by mid-March.

North Carolina boasts over 40 species and varieties of Solidago. Begin taking note of them, collect seed and grow as many different ones as you can, keeping propagation and cultivation notes as you proceed. A keen eye, a little luck with seed collecting and propagation, and within a few years you can have yellows in your garden from mid-July through frost merely from weedy, drought resistant goldenrods.



Goldenrod
Solidago
rugosa

"READING BETWEEN THE LINES"

by

Sadie Greene

Our Scandinavian touring party bade farewell to Stockholm early one morning in 1972, and travelled, in weather alternating between sunshine and showers, about 40 miles to the old town of Uppsala.

There we visited a Renaissance cathedral with its twin towers and a tomb, within the church, of the 18th century Swedish naturalist and botanist who was born Karl Von Linné (1707-1778), but who was known to the world by his Latin name, Carolus Linnaeus.

This man was known not only for his outstanding work with plants, to which he gave Latin names, but because the numerous botanical books which he wrote were all in Latin. He gave everything a two-part name, the first indicating the genus (group), the second the species (kind). Our tour guide, a well educated man from Copenhagen, told us that in his writings, Linnaeus left ample space between the lines for his multi-lingual readers to write their translations in their own languages. It was this that gave rise, he said, to the well-known expression, "Reading between the lines."

There was a bust of Linnaeus in the corridor of the University of Uppsala where he was professor of botany. It is interesting to note how widespread can be the influence of one person in the world, both in extent and time.

FRIENDS IN OREGON

by

Elizabeth Lawrence

Long ago I joined that friendly society, the Brothers of the Spade, whose founder was Peter Collinson of London. In 1734, he wrote to John Custis of Williamsburg, Virginia, with whom he exchanged letters and plants for more than a decade, begging him for more seeds. "I have already enough for myself," he said, "yet I think there is no greater pleasure than to be Communicative and oblige others. It is laying an obligation and I seldom fail of Returns for Wee Brothers of the Spade find it very necessary to share amongst us the seeds that come annually from Abroad. It not only preserves a Friendly Society but secures our Collections, for if one does not raise a seed perhaps another does."

Through correspondence with gardeners in various parts of the world, I have learned that there is a bond between all Brothers of the Spade, and I soon found that those on the West Coast have much in common with those in North Carolina in spite of great differences in conditions and climate. Carl Starker and Drew Sherrard were the first of my letter-writing friends in Oregon. I never met Mrs. Sherrard, but Mr. Starker came to lecture to the Charlotte Garden Club on flower arrangement. When he stood on the terrace, and looked down on my garden, he said he felt very much at home among all of those plants from Jennings Lodge.

Drew Sherrard was a pioneer in bringing native plants into Oregon gardens. She learned about them

when she travelled with her husband, who was superintendent of Mt. Hood National Forest, and who later on was Senior Regional Forester for the North Pacific Coast. Her little book, Roadside Flowers of the Pacific Coast (Binfords and Mort, 1932), had a package of seeds tucked in each copy.

When Mrs. Sherrard was writing about wild-flowers in her Sunday column in the Portland Oregonian she went to Stayton to lecture. She went by train and bus, as it was wartime, taking irises from her garden with her. She told the Stayton gardeners that, although there are nine species native to Oregon, she had never found a pure white natural hybrid. She said she was still looking for one, and that the place to find it would be where the pale yellow Iris chrysophylla meets the lavender Iris tenax.

One of the Stayton gardeners, Mrs. Raleigh Harold, took up the search, but it was not until after Mrs. Sherrard's death, some twenty-five years later, that she found what she was looking for. She and her daughter were driving along back roads where irises in tones of blue were blooming along the roadside. "We passed a nice, homey house," she said, (in the Bulletin of the American Rock Garden Society, January, 1964) with a pool, weeping willows, and a newly made planting of Azalea mollis. Then, in a field of about forty acres, among irises of every shade of blue and lavender, we counted eight clumps of pure white ones. We drove back to the house and my daughter asked the lady if we might dig some of the irises. She said, 'Those blue flowers?' look-

ing us over to see if we were all there, then said, 'help yourself.' We took two clumps each and left the others there. If seeds mature, some will be sent to the Seed Exchange."

NOTES ON FRANKLINIA

Bob Farmer of Norris, Tennessee has published germination information of Franklinia alatamaha in a recent issue of HortScience.* Of specific interest to native plant propagators is the following procedure. Seed stratified at 3 degrees C for 8 to 16 weeks germinate in approximately 2 weeks after being sown 5mm deep in flats of equal parts peat and perlite and maintained at a day/night temperature of 27/21 degrees C. Seedlings are kept in flats until 3-5 cm in height and then transferred to 10 cm square plastic pots filled with finely ground peat moss. Plants maintained under natural late-spring photoperiods in a greenhouse for an additional 4-8 weeks attain a height of 15-20 cm. Monthly applications of standard soluble fertilizer (NPK) were made during this last growing period.

* "Germination and Container Production of Franklinia" HortScience 12(1): 43, 1977, by R.E. Farmer, Jr., Division of Forestry, Fisheries, and Wildlife Development, Tennessee Valley Authority, Norris, TN 37828, and S.B. Chase, Chase Greenhouse, Knoxville, TN 37902. Article summarized by Ken Moore.

SEED EXCHANGE

by
Lionel Melvin
and
Ken Moore

Since 1790, Franklinia (Gordonia alatamaha) has never been found in the wild. The only known plants are in cultivation, thanks to John and William Bartram who gathered seed at its only known location on the Altamaha River of Georgia and introduced it to American and English gardens. In future generations the time will come when there will be other species of our natives that will owe their existence to cultivation. One of the methods adopted for the preservation of species by the North Carolina Wildflower Preservation Society is that of growing from seed our wild plants. Thus a seed exchange has been proposed by the board of directors which, hopefully, may more efficiently than anything so far tried, function for the distribution of seed to all of the wild flower growers. The Totten Center, UNC Botanical Garden at Chapel Hill will be established as a collection and distribution point. Jean Stewart our past president, has been selected by society president, Ken Moore, to coordinate the project with the following committee composed of members throughout the state who will head up the collection of seeds in their particular areas:

Jean Stewart
112 Glendale Dr.
Chapel Hill, NC 27514

Fanny Kletzien
1804 Colonial Ave.
Greensboro, NC 27408

Marjorie Newell
3901 Guinivere Lane
Winston-Salem, NC 27104

Gordon Butler
Butler's Nursery
Rt.7
Fayetteville, NC 28306

Judy Cozart
510 Pinewood Dr.
Wilson, NC 27893

Benson Kirkman
1510 Gorman St.
Raleigh, NC 27606

Tom & Bruce Shinn
Rt.1, Box 321-A
Leicester, NC 28748

Make arrangements to consolidate your seed collections with the regional chairman nearest you (names and addresses appearing above). It would be helpful for persons to coordinate with one another in the hope that large quantities of seeds of specific species can be collected to accomodate distributing them to several hundred persons. In making your seed collections here are some suggestions:

Identify the plants you are planning to utilize as seed sources. If you cannot identify it in the field make a pressed specimen of a single plant including flowers and/or fruit, stem leaves, and an example of basal leaves, if present and then obtain aid from local botanist. Plan to make your seed collections where there are enough plants to provide a sizable seed source.

Check the seed before you collect in bulk; make certain that the seed are mature (refer to the

Native Plant Propagation Handbook). Dry seed from the composite family and seed from dry dehiscent capsules need to be maintained in a dry condition. Do not allow heads of composites, for example, to remain long in a plastic wrap. It is best to collect in paper bags and then spread the seed heads out in a draft free room (a sudden slight draft may blow your entire collection away) to dry on newspaper until you have time to clean and sort the seed. Be careful to keep separate the seed lots of different species, and try to clean the chaff, etc. away from the seed as well as possible before sending them on.

Seed produced in pulpy fruit need to be cleaned and usually stratified for storage; many should not be allowed to dry and thus are not as suitable for processing for the seed exchange. For such seed, refer to the Propagation Manual and propagate them yourself or store properly until you can personally exchange them with other members during regular society meetings.

A seed exchange list will be distributed to members during the winter. Your efforts are necessary now to assure the success of this program.

Sow Seeds Generously

One for the rook, one for the crow,

One to die and one to grow.

HORTUS THIRD
by
Elizabeth Lawrence

In 1930, Liberty Hyde Bailey published the first edition of Hortus, which he had compiled in collaboration with his daughter, Ethel Zoe Bailey. He expected it to be brought up-to-date every ten years, and in 1940 he and Miss Bailey had Hortus Second ready to be published. After Dr. Bailey's death, the staff of the Liberty Hyde Bailey Hortorium at Cornell University continued his program of research concerned with the systematics of cultivated plants, but it was not until 1976 that Hortus Third was published. (Macmillan \$99.50).

In a preface, David M. Bates, director of the Hortorium, says, "It provides a contemporary assessment of the kinds and the names of plants cultivated in the continental United States and Canada, Puerto Rico, and Hawaii... Since Hortus Second appeared, substantial change in the concepts of underlying systematics botany has occurred, and a new system of nomenclature for cultivated variants of species has been developed."

"Mention of changes in nomenclature," Dr. Bailey said, "may alarm the gardener, yet changes are inevitable and natural, for the subject is a living and growing department of knowledge." The names of a number of genera and species in Hortus Second are no longer valid, but taxonomists are not always in agreement, and as there is a difference of opinion as to which should be kept and which discarded, a final authority is essential.

The original name of the genus Franklinia, which Sargent had changed to Gordonia, now

prevails, and I am pleased to see that Osmanthus Delavayi, changed for a while to Siphonosmanthus, now has its original name. I am also pleased to see that specific names, or former generic names, begin with capital letters. This, Dr. Bailey said, "is not only essential to the truth, but to the dignity and significance of the language."

Laudable additions to Hortus Third are an index of common names, a glossary of botanical terms, the names of the authors of Latin names, and maps of the hardiness zones. The numbered zones are given in the text when known. The list of common names is comprehensive but not exhaustive. Most, but not all, of the synonyms are cross-indexed. The most serious fault is the omission of marks to indicate which syllables are to be accented, and whether the vowels are long or short.

Dr. Bailey had "a strong conviction that knowledge in basic science should be made available to society as a whole." I think he meant available, not only to professional horticulturists, but also to those people who sell plants through the mail, such as Mary Zook, Route 2, Pantego, N. C., who advertises in North Carolina Review of Agriculture: "Rooted starts of Euphorbia Hermentiana, an exotic giant house plant; takes little room, stands to six feet."

Hortus Third, which is as large and heavy as an unabridged dictionary, is now the standard reference to North American plants, but it does not take the place of Hortus Second, which should be revised. Although new material should be added, it should be

kept to a reasonable size and published at a reasonable price for plant lovers like Miss Zook.

In the preface to Hortus Third, Dr. Bates says it is based on Miss Bailey's index to the sources of cultivated plants, which now includes more than 200,000 plants. I am pleased to learn that, although she retired in 1957, she remains no less active today, for she continues to work in the herbarium and library.

A SPECIAL REQUEST FROM DR. EDGAR T. WHERRY

"The past winter was the most severe in the records of our local weather bureau, and as a result native plants from more southern regions which we had introduced were largely killed out. This included the pink-flowered Tradescantia or Cuthbertia graminea, which we would like to get back." (from personal correspondence to Tom Shinn in May, 1977)

Seed or plants of Cuthbertia graminea also known as Tradescantia rosea var. graminea in Manual of the Vascular Flora of the Carolinas by Radford, Ahles, and Bell should be sent to: Miss Candie Black, 223 W. Tulpehocken St., Philadelphia, Pa., 19144. Miss Black is responsible for maintaining the Wherry collection at the Barnes Foundation near Philadelphia.

REQUEST FOR MAGNOLIA

Dr. Helmut Lieth of the Botany Department, UNC-CH has requested seed of all species of southeastern Magnolias for exchange abroad. Please send seed to: Totten Garden Center 457-A, UNC-CH, Chapel Hill, N. C. 27514, attn: Ken Moore.

A NEW LOOK AT MAINTAINING ROADSIDE WILDFLOWERS

by
Nancy Doubrava

Coupled with the increasing interest in wildflower cultivation and hopefully with a more heightened ecological awareness, many native wildflowers are being tried in several new landscape situations requiring minimum maintenance. Today, in addition to finding wildflowers being planted in parks, housing development, and municipal open areas, twenty-five state highway departments have also been experimenting with roadside plantings. The degree of success of these programs ranges from some states which have purchased and sown thousands of dollars of wildflower seed that didn't germinate, to other states, such as Texas, with wildflower trails mapped along their roadsides. Spending a moment to take a closer look at several of the more successful programs may help to provide some clues to their success.

TEXAS - Having won prestigious awards for beautiful roadsides over the past three years, the Texas Highway Department began urging maintenance engineers to preserve and establish wildflowers as early as the 1930's. Yearly, the Lady Bird Johnson Award of \$1,000 provides an incentive to the individual efforts of maintenance men, while several state policies also promote the expansion of their roadside wildflowers. Prior to roadside construction, topsoil from the site is salvaged, which later is spread out over the finished area. The "flower hay," being composed of wildflower plants cut with a sickle mower just

prior to seed drop, is then raked up and simply scattered over the ground at the new location. The importance of the critical period during seed germination is recognized, and seedling growth is enhanced by water being supplied to these areas as a post-planting treatment. Their most important management policy is to insure reseeding by withholding mowing from, or mowing around wildflower areas until the seeds have ripened.

GEORGIA - Beginning in 1975, the Georgia Department of Transportation and the Garden Club of Georgia, Inc. have sponsored a wildflower program that has a similar format to Texas's program. Their highway maintenance personnel compete yearly for a large cash prize for the most outstanding job in locating, preserving, and enlarging existing wildflower stands. The judging is based on a scrapbook submitted with photos, letters of commendation, and other items to demonstrate their efforts. Several of the more interesting outcomes of the program have been the location and cultivation of one endangered species (Purple Cone Flower); the creation of an instruction program and wildflower manual, and a taxonomist at Columbus College, designed to provide information for highway maintenance personnel; and a response from the public indicating that they are beginning to understand that reduced mowing means more wildflowers.

NORTH CAROLINA - Locally, the Women's Garden Club in cooperation with the Department of Transportation, instituted an Operation Wildflower program three years ago. Giving special consider-

ation to blooming seasons and the natural species distribution throughout the state, many roadside plots were seeded, using locally collected seed. The results the first year were generally disappointing. During the 1976 season, only black-eyes Susans were planted, with similar results. In order to look more closely at some of the problems encountered, a research program was begun at North Carolina State University's Horticulture Department. A national survey of wildflower roadside programs was first conducted, and the results were reviewed prior to beginning the field experiments. Six species of native wildflowers were then grown under roadside conditions in order to look at the effects of different seeding dates, densities, fertilizer rates, and mulching conditions on their performance.

The preliminary results seem to re-emphasize the importance of the post-seeding environmental conditions, particularly in regard to moisture and sunlight levels during the critical germination and establishment of seedlings. Seed germination was also enhanced by a light mulch of pine straw being added after the seeds were sown. All of the seeds used were purchased from commercial suppliers of wildflower seed, and high percentages of germination were obtained for all of the species when tested under controlled conditions after a period of storage.

While trying to answer the question regarding the feasibility and best method of growing wildflowers on North Carolina's roadsides, there are several approaches that need to be kept in mind that have been pointed out by other programs. The

first point concerns encouraging the expansion of our existing wildflower stands. This is being achieved in many other states through a reduced or delayed mowing program, which permits the wildflowers to go to seed naturally before being cut. In addition to the amount of energy saved by reducing fuel used, the overall economic benefits in a program such as in Oklahoma have saved the taxpayers up to \$700,000. The reduction of mowing brings up another consideration which concerns the general vegetation successional patterns of an area. In North Carolina, would allowing our native woody species to revegetate our roadsides be another effective approach to look at further? Although many questions still remain in the area of roadside revegetation, we are gradually beginning to better understand some of the problems involved and how to deal with them.

NORTH CAROLINA NATIVE PLANT PROPAGATION HANDBOOK

Compiled by members of the North Carolina Wild Flower Preservation Society, this is a practical "how to" guide on the propagation of native wild flowers and trees and shrubs.

Price is \$3.50 postpaid. Multiple copies are available at a discount to garden clubs and other botanical and horticultural organizations. Make inquiries of and make checks payable to the N.C. Wild Flower Preservation Society:

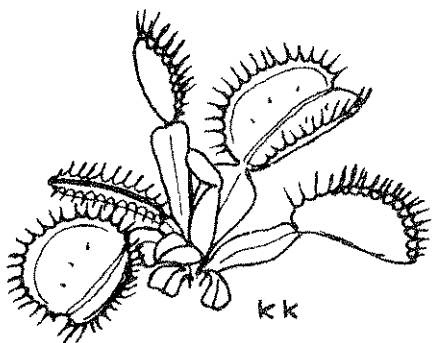
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VENUS' FLY-TRAP IN FLORIDA--
NATIVE OR NATURALIZED?

by
Steven W. Leonard

During a field foray into the pine savannas around Apalachicola, Florida, on May 14, 1977, the author's attention was diverted to several white-flowered plants which proved to be Venus' fly-trap (Dionaea muscipula). The plants are located in Apalachicola National Forest along State Road 65 in Franklin County, 3.7 miles south of the Liberty County line, or about five miles south of the community of Sumatra. Eighty-six plants were found after a search of the area. Nearly one-third of the fly-traps were in flower, but there were also numerous seedlings-- many barely visible.

The site is characterized by longleaf pine and wiregrass with patches of bare, grayish sandy clay. Clubmoss, sundews, milkworts, and other savanna vegetation is abundant, and were it not for the fact that the locality is 500 miles southwest of the known range of this species, one would suspect that he were in the Green Swamp of southeastern North Carolina rather than in the Florida Panhandle. Indeed, the similarity is so striking that Dr.



Dionaea muscipula
Venus' Fly Trap

Bob Godfrey, retired Professor of Botany at Florida State University, remarked upon visiting the site a few days later, that "it (the fly-trap habitat) looks natural."

The annoying question presents itself: Is Venus' fly-trap native to the Florida Panhandle? Early accounts of the southeastern flora exclude this species from Florida. Champan (1887) gives the distribution for Dionaea as "sandy bogs in the pine barrens of North Carolina and the adjacent parts of South Carolina." Small (1933) indicates that the fly-trap grows in "sandy bogs, savannas, and low pinelands, usually in acid soil, Coastal Plain, e. S. C. and N. C." Roberts and Oosting (1958) report its distribution as the central southeastern coastal plain of North America. Radford, et al. (1968) list nineteen counties in the Carolinas with documented vouchers of Dionaea muscipula.

A disjunction of several hundred miles of a supposedly endemic species such as Venus' fly-trap, a species which is well-known as a botanical curiosity, under the protection of the law (in North Carolina), and of no little commercial value, must be viewed with some doubt. Yet the station is but a short distance from the type locality of Harperocallis (family Liliaceae)--a new genus that was discovered, named, and described by McDaniel less than two decades ago. Although the Apalachicola River area has received attention for such novelties as Taxus, Torreya, Croomia, etc., the botanical exploration of the region--at least by passing visitors--has been restricted to the more accessible river bluffs and roadside savannas,

Together with the extensive acreage of the Apalachicola National Forest and the sparseness of the population, there are vast expanses still inaccessible and botanically "unknown" in this part of Florida. Thus the occurrence of disjunct populations or even new species should not come as a surprise to those familiar with this section of the Florida Panhandle.

Perhaps the most damaging evidence to the proposition that Venus' fly-trap is native to Florida is that a very careful search of surrounding savannas failed to turn up a single plant. Again, the habitat "looks promising" but no fly-traps could be located. Furthermore, the little colony is within sight of State Road 65--a convenient distance for someone carrying pots of plants to be set out. Professor Godfrey could offer no clues as to whether a botanist had transferred plants from the Carolinas to the Franklin County site. Despite the mystery--should it have been one at all--the habitat was well chosen, the fly-traps are thriving, and wildflower enthusiasts who care about such things have a puzzle as enigmatic as an Agatha Christie novel. Is Venus' fly-trap in Florida native or naturalized? That is the question!

• • •

As the forest grew, so the axe handle grew with it.
Russian Proverb
(Solzhenitsyn, Letter To The Soviet Leaders)

A VARIET DUTCHMAN'S BREECHES

On a walk in Chatham Co. woods with Charlie's father some fifteen years ago, we came upon an exciting concentration of native plants in flower. Many wild flowers--alum root, foam flower, oxalis, Jack-in-the-Pulpit, Hound's tongue, trout lily, white hepatica, flags, Dutchman's breeches, toothwort, anemone, paw-paw, button bush--could be seen within an area of a few acres. I never have found my good walking stick I threw down to look more closely at a large population of Dicentra. One group was easily recognizable as white Dutchman's breeches, Dicentra cucullaria. But there were others, pink ones, really pink ones!

Not finding a pink D. cucullaria listed in our books, we crept up upon these plants several times during the next few years, wondering if they really were pink breeches or if the white had faded into pink. Color remained constant; in addition, the pink-blooming plants seemed to present a slightly differing aspect from the white.

Hopeful of having discovered a new plant, finally I found my way to native plant authority Dr. Albert E. Radford's office on the top floor of the Botany building at UNC, a hike quite as exhilarating as climbing the steep bluffs of Chatham.

Dr. Radford said that what struck him at first was the pink color and shape of the plant. He also said that he had never seen that extreme variety, the small corolla, the form, the more rounded apex, the beautiful pink coloration. "You get a little pink in Dutchman's breeches, but not all that pink--a rich pink which was retained." He added whimsically that the breeches were not as baggy as are regularly seen in D. cucullaria, and promised to look it up to see if it could be a new variety.

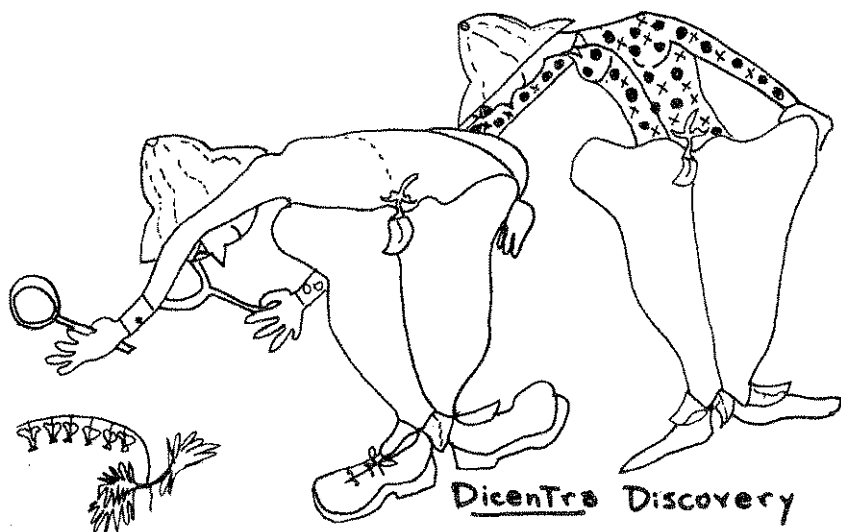
In Brittonia, publication of the American Society of Plant Environments, Kingsley Stern, Dr. Radford found that Dicentra cucullaria is listed as

having a great amount of variation within, particularly in respect to flower form. The shape of our variant, as well as other differing shapes, was sketched and treated as a variety of D. cucullaria with no recognition of named varieties.

I thought I would surely get famous and have "Mercer's Pink Breeches" officially listed; this is what volunteers at the N.C. Botanical Garden named the variant. Dr. Radford said we'd watch it a while and see what happens. "I don't think it's going to change color or shape; I think it's genetic. A disjunct population which is genetically different is likely fixed and might even be a new variety."

I don't know if there are any new plants left to discover, but it's fun to look.

Mercer Hubbard



HOFFMAN TRAIL

by

Linda M. Lamm

North Carolina has established three Marine Resources Centers located in a geographically distinct region of the state; on Roanoke Island in Dare County; on Bogue Banks in Carteret County at the edge of a maritime forest donated to the state by descendants of President Theodore Roosevelt; and at Fort Fisher in New Hanover County.

At the Resource Center on Bogue Banks, the Roosevelt Natural Area Interpretive Trail has been established called the Hoffman Trail. This includes the entire area between Salter Path and Atlantic Beach, including all that is now Theodore Roosevelt Natural Area which was once owned by Alice Green Hoffman. Mrs. Hoffman, originally from New York City, first visited the island in 1916. She later bought land and built a home that stood next to Bogue Sound. Mrs. Hoffman used the house as a second home until 1941, when she moved there permanently. At her death in 1953, the land was given to her niece and niece's children, who were also descendants of former President Theodore Roosevelt.

The forests and marshes of Roosevelt Natural Area are a part of a system of old sand dune ridges and swales. The ridges are covered by a well-developed maritime forest, except close to the sound where the forest grades into a low shrub thicket. The low, wet swales (the valleys between the ridges) contain swamp forest, shrub swamp, brackish marsh, and salt marsh. This is a good place to see marsh birds including several species

of herons and egrets.

Roosevelt Natural Area with its well-developed forests, provides refuge for a variety of nesting birds. Several species of warblers can be seen and heard from April until June. Of these, the most interesting is Wayne's black-throated green warbler. Its nesting range is restricted to the coastal plain from the Great Dismal Swamp southwest to eastern South Carolina. In summer, painted buntings and prairie warblers sing from shrub thickets along the edge of the pond, and you might see an alligator. In winter, grebes and ducks may be seen.

In general, North Carolina barrier islands are unstable areas characterized by erosion and shifting sands. Only a few sections of these islands support mature forests. These forests, with their distinctive plant compositions, are called maritime forests. This is the oldest, best developed section of forest in the Roosevelt Natural Area. Good examples of maritime forest are becoming rare in North Carolina. At this point stand examples of the major tree species of the maritime forest—red bay, laurel oak, loblolly pine, wild olive, holly, live oak, and red cedar. All these trees are evergreen.

The red bay, laurel oak, wild olive, and live oak are southern coastal species that reach their northern limit in southeastern Virginia.

The small swale area beyond the forest is moist and contains standing water after heavy rains.

Red bay and sweet bay can be seen together in the middle of the swale. The red bay has a dark ridged trunk, and its leaves are used to season food. Many find its flavor just as good as the commercially grown bay leaves of Laurus nobilis.

A small opening in the forest was created where two trees died and were later blown down by wind. Such natural clearings allow shade-intolerant plants to grow. There are a large number of pine seedlings in the immediate area. Resurrection ferns are growing on the horizontal tree trunks. When the weather is dry, the fronds are curled and look dead, but they revive quickly after a soaking rain. These ferns are epiphytic, which means they use the tree for support but derive no nourishment from it.

The highest point and the most protected area on the Hoffman Trail contains several species of deciduous trees typical of the mainland—dogwood, black gum, and sweet gum. The swamp has many kinds of plants different from the maritime forest. The ash tree is one of these swamp plants. In this area, eight species of ferns can be seen from spring through fall.

Most marshes in the Roosevelt Natural Area are salty or brackish, but the Cattail Marsh contains fresh water and is not subject to flooding from the sound. Especially in winter, this is a good place to observe birds. The most common bird here during the winter season is the yellow-rumped (myrtle) warbler.

The toothache-tree grows here and is

another southern coastal species that reaches its northern limit in southeastern Virginia. The bark of this small, thorny tree contains a pain killer formerly used as a cure for toothaches.

Temporary ponds contain standing water in winter but are relatively dry in summer. Sphagnum moss and Virginia chain ferns are the two most noticeable plants growing in these wet areas. In winter, grasslike leaf stalks of the fern remain visible.

There are several species of snakes in the Roosevelt Natural Area. The two most common are the harmless black racer and the rat snake. But, be cautious, because there are two species of poisonous snakes: the copperhead and the canebraker rattlesnake. Snakes don't usually bite unless provoked, but trail users should be careful where they step.

We know that this area was once bare sand lying next to the ocean. The first plants to grow here were probably small salt-tolerant herbs, gradually replaced by larger and larger plants, and by more and more kinds of plants as a forest developed. And we know this area continues to change. The maritime forests and swamp forests are gradually being invaded by salt marsh as the sea level rises.

The ideal time to walk the Trail is in early spring and late fall. There are many flowers, including Jack-in-the-pulpit, cardinal flower, goldenrod, silene, Indian pipes, yucca, and hibiscus all to be seen in season. A list of the vascular

plants of the Roosevelt Natural Area has been compiled by John Fussell, who acknowledges with appreciation the help given him by Bob Currie, Charles Perino and Rusty Kologiski of the North Carolina State University for identifying many of the plants listed in this study.

The Hoffman Trail and the Nature Trail at Fort Macon at the tip end of Bogue Banks are a co-operative effort between the Marine Research Center and the North Carolina State Park Commission.

The North Carolina Marine Resources Center/Bogue Banks serves as a focus for public information, education, research, and advisory services in a facility housing a public aquarium, exhibits, library, classrooms and laboratories. The Center is located just six miles west of Atlantic Beach off Salter Path Road in the Roosevelt Nature Area. The public is always welcome.

Open Monday - Friday - 9:00 - 5:00

Saturday - 10:00 - 4:00

Sunday - year around 1:00 - 5:00

Telephone (919) 726-0121

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NOTE: With appreciation to John Fussell, Historian, Fort Macon State Park, for his information and interest.

MINUTES OF THE SPRING 1976 MEETING

The N.C.W.P.S. held its Spring General meeting (its 25th anniversary) at the Liberty Ruritan Club Building in Liberty, N. C. Hosting the meeting were Mr. & Mrs. Herbert Smith. Presiding was Mrs. Jean Stewart. The minutes of the last meeting were not read since they were printed in the Spring Newsletter. Gretchen Cozart gave the treasurer's report. Balance on hand \$478.18 - Scholarship Fund \$542.93.

Mrs. Stewart read letter of thanks from the Southern Appalachian Highlands Conservancy for the gift of \$500.00 which Mrs. Bonner Knox contributed in the name of the Society. Also, Mr. Lionel Melvin contributed to further the work toward publishing Dr. Francis Harper's book about the Folk of the Okefinokee Swamp - Letter of thanks received from Jean Harper.

Mr. Melvin gave a report of the "Ad Hoc Committee" to investigate what to do about the various groups asking for money.

Jean Stewart made one correction in the Spring Newsletter - the name Mrs. J. A. Warren should have read: Mr. J. A. Warren.

Propagation Report -

Nell Lewis gave a last call for this information. Deadline - June 30 - Mrs. Shinn told about Mr. George Steven's offer to help with booklet. No action taken. Julie Moore told of the need for background work - Any little secrets or bits of information that an individual may have hit upon in their own gardening.

All information is to be sent in to Nell Lewis. This committee will meet during lunch.

Jean Stewart reported on the new membership dues -

Regular \$2.00
Contributing \$5.00
Sustaining \$10.00
Life 100.00

Mrs. Pattie Warren moved a Family category be added and that it be \$5.00. Mr. O. G. Allen seconded - Motion carried.

Mr. Melvin moved that a stamp be made with new dues in order to correct already printed brochures.

Dr. Ray Noggle reported on plant research being done at N. C. State University in Raleigh. He asked for volunteers to grow bush honeysuckle in different areas of the state - Information could be helpful in control of insects and pests.

Mrs. Viola Braxton reported that she had paid for a one year membership to the State Garden Club, Inc. in the name of the Society. Mrs. Pringle, state president in turn affiliated us with the National Garden Clubs. The Society's appreciation was expressed. Mr. Melvin then moved that the Society join the state and National Garden Clubs, Inc. - but pay dues thereafter. Mrs. Warren seconded. Motion carried.

Mrs. Stewart announced a field trip to Bluff Mountain on June 5, 1976.

Jean called for a report from the chairman of the nominating committee -

Mrs. Viola Braxton:

Nominating Committee of the North Carolina Wild Flower Preservation Society, Inc.:

Viola Braxton, Chairman
Lionel Melvin
Eva Spencer
O. G. Allen
Marjorie Newell

Met Feb. 1, 1976. Four of the five members were present.

Vice President ----- Ken Moore
Vice President ----- Dr. G. Ray Noggle
Cor. Secretary ----- Pat Henry

Our officers are staggered: Clara Murray has at least another year as Secretary. Gretchen Cozart has more time as Treasurer. Under the Nominating Committees Recommendation in 1970 the first three people named to the board of Directors or Trustees would serve one year terms, the last three two year terms.

Trustees: Jean Stewart '77
O. G. Allen '77
Helmuth Kletzien '77
Lionel Melvin '78
Bruce Shinn '78

Ken Moore serves as an ex-officio member.

In 1977 the Secretary and Treasurer as well as three new members to the Trustees will come up for election.

Viola A. Braxton, Chairman
Nominating Committee

Mrs. Braxton then moved that the nominations be accepted - Mrs. Gretchen Cozart seconded - motion carried.

Since this was our 25th anniversary - special invitations had been sent to Governor Holshouser, and to the founders of the Society - the Governor declined, Mrs. Graham declined but sent a \$25 donation, Mrs. Apple could not attend. Of course Mr. & Mrs. Smith were hosts and after lunch the members were invited to their home for a dig - the first meeting of the Society was held at the Smith's home.

In closing - Mr. Melvin gave a resume of the history of the Society for the past 25 years. He attributed the group's success because members see each other at least twice a year and there is an excellent newsletter.

Jean Stewart read an excerpt from Mrs. Graham's letter and honor was paid to Mrs. Conner Smith - Mrs. Smith reminisced and gave some highlights of the Society's growth.

A gift was presented to Mrs. Smith and to Jean Stewart, our outgoing president. Dr. Noggle adjourned the meeting.

FALL GENERAL MEETING 1976

The Fall General meeting of the N. C. W. F. P. S. was held at Weymouth Woods Nature Preserve in Southern Pines on Sunday, Nov. 8, 1976. Ken Moore, president presided. Minutes were read and approved.

Treasurer's report - Balance on hand \$892.81
Scholarship Fund 618.13

Old Business - Mercer Hubbard urged material on Special Plant Propagation Newsletter and reported that work was progressing on schedule. There will be a spring newsletter as usual - please send material to Linda Lamm, Teenie Stronach, or Mercer Hubbard.

New Business - Mr. Melvin reported that Hope Mills would be treated as a Natural Areas Management Program - Dr. Hechenbleikner and Mr. Butler are working with him - This is a summary of their report :

Limited area of marsh - considered burning but not feasible - decided to use bush-hog to cut swath all around boundary to see what is in it - cut a path and inquire about acquiring more land at upper end - between swamp and lake - 4 or 5 more acres which ground is higher and would be good location for shelter and facility. Trash not too much problem right now. The road should not be repaired immediately; as long as it is not passable we will not have as many problems. He suggested a special hike to Hope Mills within next six months.

Ken announced that Nancy Doubrava, a member of our group is working on her Masters in Horticultural Science at N. C. State University. As a project she is working on the establishment of wild flowers on our roadsides in the state. Nancy would appreciate any information that members could share with her.

The program for the afternoon - "Natural Heritage and Nature Conservancy in N. C." was presented by Charles Roe, Fred Huber, and Tom Massingale.

Dr. Noggle introduced Dr. David McLain, director of the Indian Museum in Laurinburg. He presented a program on the "Planting Plans of the Indian Museum of the Carolinas".

Mr. Mac Godwin, Superintendent of Weymouth Woods and naturalist, Jay Carter, presented a slide lecture on the local area followed by interpretive walks through the woods highlighted by the beautiful sandhill gentians, Gentiana autumnalis.

SPRING GENERAL MEETING May 1, 1977

The Spring General Meeting of the NCWFPS was held on the campus of UNC-Charlotte on May 1, 1977. After lunch the meeting was called to order by Ken Moore, president. The minutes of the Fall General Meeting were read and approved.

Treasurer's Report: Balance on Hand \$982.09
Scholarship Fund 664.66

We were reminded that our membership dues were due. This brought a motion to the floor by Mr. Ernest Yelton to raise regular membership dues to \$5.00. Mr. Hal Daniels seconded. The motion carried. Then Mr. Henry Clippard moved that contributing and family dues be \$10.00, Sustaining dues be \$15.00. Mr. Yelton seconded. After much discussion about the scale of dues, Mr. O. G. Allen moved to table the motion. Mr. Roy Apple seconded the motion and it was carried. The executive board will revamp dues and make an announcement at the Fall Board Meeting.

Old Business - Mr. Butler reported on the Hope Mills Area. He has planted a few Venus Fly Traps. The committee will get help to go into the area to do some clearing and cleaning up. The Forest Service is probably the most satisfactory group to call on. Mrs. Norma Currie of Fayetteville made us aware of bulldozing work for apartment building in the Crystal Springs Area. There are Venus Fly Traps and Sarracenias being destroyed.

Julie Moore announced that the Propagation Booklet was now indeed a reality. Members present will pick up their copy. Others will be mailed. The first copy was presented to Tom Shinn who initiated the idea of such a booklet when he was president of the Society about three years ago.

New Business - Ken announced that Mercer Hubbard had resigned as editor of the Newsletter. She was presented with a propagation booklet as a token of appreciation.

Nancy Stronach and Linda Lamm with Julie Moore and Mercer's help will find a new Newsletter editor.

Ken encouraged a plant rescue telephone chain within the Society. He explained that Charlotte Jones had an excellent system at the Botanical Garden and that she would be chairman of the Society telephone chain. These are the names of the volunteers from the different areas of the state who want to be on the calling list:

Chapel Hill - Eleanor Pegg
Durham - Clara Murray
Wilson - Gretchen Cozart, Linda Lamm
Fayetteville - Gordon Butler, Norma Currie
Greensboro - Lionel Melvin, Nell Lewis, Helmuth Kletzien
Winston-Salem - Marjorie Newell
Asheville - Bruce and Tom Shinn

Ken proposed that the Society, in cooperation with the Botanical Garden, work up a symposium on Conservation - These are the three points of interest:

1. How to obtain areas for conservation
2. How to manage such areas
3. How to protect endangered species

He called for volunteers and suggested they meet within a month.

Mr. Lionel Melvin
Mrs. Nancy Eliason
Mr. Larry Mellichamp
Mr. Turner
Mrs. Norma Currie

Ken also recommended that we pass this resolution concerning the Nature Conservancy.

Be it resolved that the membership of the NCWEPs commends the work of the Natural Heritage Program in North Carolina in its effort to describe and serve our state's natural areas. It is our desire that the program be continued and we offer our support in whatever manner may be appropriate, whether it be collective or individual involvement in donating, purchasing, or managing such areas, or letters of support for these efforts requiring a broad base of public support for implementation.

Dr. Hechenbleikner moved that the resolution be accepted, Gretchen Cozart seconded and the motion carried.

Evelyn Apple moved that a letter in behalf of the society be written to Representative Pat Griffin in support of the Bottie Bill. Mr. Dillard seconded --motion carried.

Dr. Hechenbleikner introduced Larry Mellichamp as his replacement at UNC-Charlotte.

Appreciation was expressed to Dr. Hechenbleikner for making the arrangements for our meeting and tour through the Van Landingham Glen.

Nell Lewis moved that the meeting be adjourned. Sarah Nooe seconded - motion carried.

FALL BOARD MEETING August 1977

Convened at the Totten Garden Center, Botanical Garden, Chapel Hill, N. C.

Board Resolutions and other actions:

1. \$1000.00 from regular treasury approved for partial payment of the Propagation Handbook. Several board members made interest free loans to the Society for payment of the remaining printing costs.
2. Board approved the action of the general membership at the Spring '77 meeting increasing Regular dues to \$5.00 annually. The Board subsequently designated a Sustaining membership of \$25.00 and a Life membership of \$100.00 and deleted the Contributing and Family categories.
3. Nominating Committee appointed for choosing slate of officers to be approved at the Spring general meeting. Helmuth Kletzien, Chairman with Lionel Melvin, Nell Lewis and two members to be selected from general membership.
4. Board approved a motion to move the home office of the N. C. Wild Flower Preservation Society, Inc. from Greensboro to the Totten Garden Center at Chapel Hill, and instructed the Society president to make a formal request to the N. C. Botanical Garden for such a move.

Clara Murray, Secretary

N. C. WILD FLOWER PRESERVATION SOCIETY

MEMBERSHIP ROLL

Adams, Mrs. LeNeve H. 1618 Ambleside Drive Raleigh, N. C. 27605	Bates, Mrs. David E. 3503 Brown Bark Drive Greensboro, N. C. 27410
Alexander, Mrs. Ruth 820 River Oaks Lane Charlotte, N. C. 28211	Beattie, Mr. Walter W. 1928 Park Road Charlotte, N. C. 28203
Allen, Mr. & Mrs. O. G. 1466 Oldtown Road Winston-Salem, N. C. 27106	Beaufort-Murphy, Mrs. Helen T. 3105 Douglas Street Raleigh, N. C. 27607
Apple, Mr. & Mrs. Roy D. 1816 Edgewood Ave. Burlington, N. C. 27215	Bell, Dr. C. Ritchie Dept. of Botany 406 Coker Hall, UNC Chapel Hill, N. C. 27514
Appleberry, Mrs. Cecil 127 Lake Forest Parkway Wilmington, N. C. 28401	Bell, Miss Velma 602 Longview Street Greensboro, N. C. 27403
Armfield, Mrs. Jane H. 510 Country Club Drive Greensboro, N. C. 27408	Bell, Mrs. W. H. 140 Hamilton Road Chapel Hill, N. C. 27514
Austin, Mr. John W. 506 Lindale Drive High Point, N. C. 27260	Bellis, Mr. & Mrs. Vincent J., Jr. 1205 East Wright Road Greenville, N. C. 27834
Baker, Mrs. Mildred 714 Churchill Drive Chapel Hill, N. C. 27514	Benbow, Mrs. Charles D. 329 Oakwood Drive Statesville, N. C. 28677
Balfour, Mrs. Marshall C. 411 Morgan Creek Road Chapel Hill, N. C. 27514	Bernheim, Dr. Mary L. C. Duke Medical Center Durham, N. C. 27710
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Ballington, James R. Horticultural Science Dept. N. C. State University Raleigh, N. C. 27607	Bittle, Mrs. Roy 325 Hermitage Road Charlotte, N. C. 28207
Barber, Dr. John F. 157 Windsor Road Asheville, N. C. 28804	Block, Anel 208 Hillside Drive Lexington, N. C. 27292
Barnes, Mrs. George T. 1506 W. Kenan Street Wilson, N. C. 27893	Blaha, Mrs. George W. Sherwood Forest Cedar Mountain, N. C. 27818
Barnes, Mr. Lee R., Jr. 2623 1/2 Oberlin Road Raleigh, N. C. 27608	Blair, Mrs. Charles R. 804 Churchill Drive Chapel Hill, N. C. 27414
Barringer, Mr. "Bugs" P. O. Box 191 Rocky Mount, N. C. 27801	Blake, Mrs. Walter W. 1139 Woodland Drive Wilson, N. C. 27893
Barringer, Miss Hattie 1701 Springdale Ave. Charlotte, N. C. 28203	Blanton, Mrs. C. D. 409 W. Gold Street Kings Mountain, N. C. 28086

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Fayetteville, N. C. 28306

Butler, Mr. & Mrs. W. Lawrence
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Hendersonville, N. C. 28739

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Cason, Mr. & Mrs. David A., Jr.
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Cheatham, Mrs. James
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Clebsch, Mrs. William
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Cleveland, Ms. Linda Ann
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Durham, N. C. 27707

Clippard, Mr. & Mrs. J. Henry
Clippard, Miss Sadie
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Shinn, Mr. & Mrs. Thomas, Jr. 6537 Idlebrook Drive Charlotte, N.C. 28212	Spencer, Mrs. Paul 511 Greensboro Road High Point, N.C. 27260
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Smith, Mrs. Carl 408 Westwood Drive Chapel Hill, N.C. 27514	Stratton, Mrs. John D. Rt. 2, Box 435-A Durham, N.C. 27705
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Wildflower Garden Club
c/o Miss Anna Perryman
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Winston-Salem, N.C. 27101

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900 WEST NASH STREET

WILSON, NORTH CAROLINA 27893

NORTH CAROLINA WILD FLOWER PRESERVATION SOCIETY, INC.

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