

The

July 1977

Boxwood Bulletin

A QUARTERLY DEVOTED TO MAN'S OLDEST GARDEN ORNAMENTAL



Photo by Hank Ebert

“Lona Baldwin” flowering peach planted in the Memorial Garden in honor of Dr. J. T. Baldwin, Jr. Peach is named in honor of Dr. Baldwin’s mother and was donated by Bountiful Ridge Nurseries, Princess Anne, Md.

Left to right: Alden Eaton, Richard Mahone, Tom Ewert, and ABS president, Albert Beecher.

Edited Under The Direction Of
THE AMERICAN BOXWOOD SOCIETY

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Mr. Richard Mahone -----	1975	1978

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The Boxwood Bulletin

July 1977

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EDITOR — MRS. CHARLES H. DICK
 EDITOR EMERITUS — MRS. EDGAR M. WHITING

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THE AMERICAN BOXWOOD SOCIETY

17th ANNUAL MEETING

Wednesday, May 11, 1977

The 17th annual meeting was called to order at 10:40 a.m. by the President, Professor Albert S. Beecher. All officers and directors were present with the exception of Mrs. Linda G. Jones, Secretary, Dr. W. Ralph Singleton, Director, and one Board Member, Ambassador Harrison M. Symmes.

The President welcomed members and guests and prefaced the start of the business meeting by saying that Admiral Phillips, who had been the guiding light for years of the ABS, had called to indicate that he would not be able to be present. He is back in Virginia after spending the winter in Arizona.

The President thanked Dr. Runk for making the meeting place available to the Society and voiced his thanks to Mr. and Mrs. Ewert for making all arrangements for the meeting at Blandy, and a special thanks to Mrs. Ewert for the lovely apple boxwood tree which decorated the hospitality table. Thanks went to Mrs. Sarah Burton and Mrs. Charles Dick for taking charge of registration and to Mrs. Anna Kirby for acting as recorder. Grateful thanks was extended to all for coming and taking part in the meeting.

In the absence of the Secretary, Mrs. Linda Jones, the Secretary's Report was read by Mrs. Kay Ewert (copy attached). On motion of Mr. Richard Mahone motion was made to accept the report as read. The vote was unanimous. The Treasurer's report (copy attached) was received as read and filed.

Dr. Runk of the University of Virginia and Mr. Thomas Ewert, Director of Blandy Farm welcomed members and guests to Blandy, ABS Headquarters. Mr. Ewert gave an account of two boxwood workshops attended by approximately fifty people held at Blandy in 1976 and the progress being made on the Boxwood Memorial Garden. Continuing Education Classes to be carried on here will be open to interested persons in folklore or painting. He called attention to the art exhibit provided by Mr. Yoder and described the courses to be held in June and July. Mr. Ewert reminded everyone that Dr. Runk will be retiring from the University in mid-summer.

The President reported that 1976 was a year of changes for the Society: Mrs. Kirby has stepped down as Secretary-Treasurer. Executive Secretarial duties will be handled by Mrs. Linda G. Jones and Mrs. Thomas E. Ewert will resume Executive Treasurer's duties. Mrs. Whiting retired as Editor but will continue as editor emeritus of *The Boxwood Bulletin*. Mrs. Charles Dick has been named editor of the Bulletin. Ambassador Harrison M. Symmes, Resi-

dent Director of Mount Vernon, has been elected by the Board of Directors to complete Mrs. Whiting's unexpired term. Both Mrs. Whiting and Mrs. Kirby have been made honorary life members for their many years of service.

Professor Beecher indicated that the Board has been working on a number of things since the Admiral retired, namely:

1. Resuming the Boxwood Bulletin.
2. Continuation of planting in the Boxwood Memorial Garden.
3. Boxwood Workshops are being planned in the near future.
4. Another project underway is completion of a series of boxwood slides to be used in giving lectures in local communities. All members are encouraged to contribute pertinent slides to add to the collection.
5. The Board is working on a Plant Buyers Guide and would like suggestions from members as to where varieties of boxwood can be obtained.
6. Preparing an assessment of winter injury to boxwood. Observations of injury in your area should be forwarded to *The Boxwood Bulletin*.

Professor Beecher concluded his remarks with some comments regarding Admiral Phillips being elected President of the Society in 1962 and resigning in November, 1976. Some of his outstanding accomplishments were:

1. Publishing 56 issues of *The Boxwood Bulletin*.
2. Presiding over 14 annual meetings plus conducting tours of his gardens and topiary boxwood.
3. Establishing the ABS as the authority for registering boxwood.
4. Enlisting financial support through grants for the University of Maryland, and also to VPI & SU on boxwood decline.
5. Increasing the life membership.
6. During the years he gained financial support for the Society.
7. Worked out a pleasant arrangement with Blandy for the Boxwood Memorial Garden, plus many, many other things.

We owe a debt of gratitude to Admiral Phillips for his many years of service and devotion to the work of the Society.

The President stated that a vote of thanks and appreciation should be extended to Mrs. Whiting for

the work and devotion she has shown over the years in editing the Bulletin. She became editor in 1963 and was involved in publishing 52 issues of *The Boxwood Bulletin* having personally edited 42 issues. Professor Beecher praised her for the tremendous amount of hard work and devoted service as editor. He indicated Mrs. Whiting was enthusiastic and kept members involved relating an incident involving Dr. Skinner's trip to Israel and how Mrs. Whiting procured an article entitled "Boxwood Grows in Israel."

A motion was made that the minutes of the 16th Annual Meeting, as published in the Bulletin be accepted. Motion was carried.

Mrs. Charles Dick was introduced as the new editor of the Bulletin. She reported that the October, 1976, issue is at the printers and will, hopefully, soon be on its way to the members. She solicited articles for the Bulletin.

The Nominating Committee (as appointed by the Executive Board) included Mrs. Thomas Ewert, Chairman, Mrs. Herta Jones and Mr. Walter Wise carver. Mrs. Ewert presented the slate of officers for the coming year. There being no nominations from the floor Dr. Runk moved that nominations be closed. It was seconded and voted unanimously to accept the slate as presented:

President	Professor Albert Beecher
1st V.P.	Mr. Richard Mahone
2nd V.P.	Dr. Bernice Speese
Secretary	Mrs. Linda G. Jones
Treasurer	Mrs. Thomas Ewert
Directors:	
Dr. Henry T. Skinner	1977-1980
Prof. Albert S. Beecher	1977-1980
Dr. W. Ralph Singleton	1975-1978
Ambassador Harrison Symmes	1975-1978
Mr. Charles Otey	1975-1978
Mr. Alden Eaton	1975-1978
Ex officio - Mr. Thomas E. Ewert	

Dr. Bernice Speese of William and Mary in Williamsburg was recognized for her work as registrar and maintaining the records and papers of the late Dr. Baldwin.

Mr. Thomas Ewert gave a report on the Boxwood Memorial Garden stating that it is progressing. A temporary identification tag was placed before each plant for the benefit of participants inspecting the garden during the noon recess. He indicated interest in securing plants of varieties and cultivars currently not represented in the collection. Cuttings have been supplied from a number of plants in Williamsburg through the efforts of Alden Eaton, Richard Mahone, and Robert McCartney. The cuttings have been placed in the propagation bench in the Blandly Greenhouse and ultimately will be placed in the Garden. He acknowledged Dr. Speese's work with Dr. Baldwin's list and stated he hoped members would examine the garden and express comments or criticisms. Any help will be appreciated.

At this point Professor Beecher stated that he wished to make a presentation to someone we all love and care for, Mrs. Whiting. She was presented

with a bound copy of the bulletins. Mr. Eaton then presented her with a large block of boxwood stating that one way in which you held it, it looked like a map of Africa, and indicated the area where boxwood might grow. Then if you let your imagination ramble you could see many things in that small block of wood naming several. Mrs. Whiting expressed her thanks and was then given a standing ovation by those present.

Dr. Roger Waghray of Fairfax Extension Service invited the Society to set up a booth to give exposure to ABS and get new members at Tysons Corner where they will be holding exhibits on August 4, 5, and 6 at the 5th annual Metropolitan Horticultural Show. The President expressed appreciation to Dr. Waghray for bringing it to our attention and stated that perhaps something could be worked out.

The President then announced that membership forms are available to anyone interested in helping obtain new members.

Mrs. Burton reminded members who had not registered to stop by the table at noon and sign the guest book.

It was announced that a "Lona Baldwin" Peach Tree, a gift from Bountiful Ridge Nurseries, Princess Anne, Md., would be planted in the Memorial Garden in memory of Dr. J. T. Baldwin, Jr. after the lunch hour - - approximately 12:45 P.M.

A motion was passed to adjourn for lunch, and to reassemble at 1 P.M. for the educational portion of the program.

The afternoon session reconvened at 1:05 P.M. showing 97 in attendance.

A Panel discussion regarding boxwood problems with special emphasis on winter injury followed. Panel members included: Mr. Alden Eaton, Dr. Henry T. Skinner, Mr. Richard Mahone, Mr. Charles Otey, Dr. Robert C. Lambe, Dr. Wirt H. Wills, Prof. Albert Beecher, and Dr. Clarence Hill. Mr. Thomas Ewert served as moderator.

Mr. Alden Eaton spoke on winter injury in Williamsburg stating 1976-77 was the coldest winter on record. All rosemary, lavender, and sage were lost. There was some damage to Southern Magnolias, major damage to figs, gardenias, and crepe myrtle, and various amounts of damage to hollies, live oaks, camellias, pyracantha and Nadina—some as yet not known. Boxwood suffered no damage and plants never looked better. Recommended foliant feeding instead of fertilizer.

Dr. Henry Skinner of Bowie, Maryland reported Bowie and Washington, D.C. area damage about the same as Williamsburg with the exception that there has been a lot of wind burn to hollies, figs, and camellias. Boxwood withstood the winter cold better than most plants; there was not a dead twig on the Japanese Boxwood in any part of his garden. The English Boxwood sustained no damage, and there was only minimal burning on the Korean Boxwood. He then described a tour of Kent County, Maryland, where boxwood seemed to have suffered no damage but the magnolias, camellias, and hollies all look bad.

Mr. Charles Otey assessed the damage in the Richmond area and stated that boxwood survived better than other plants in his area and that crepe myrtle and most hollies were severely damaged. He recommended organic feeding, aeration through holes in the ground under plants, and going to the outer edges of branches before drilling holes. Also he answered a number of questions concerning the kinds of fertilizers to use, the best way to apply fertilizer, and when to feed plants.

Mr. Richard Mahone of Colonial Williamsburg stated that 21 states were represented at the Williamsburg Garden Symposium and it was his expressed belief that the past winter was the worst ever for loss of plant material in all parts of the country. He attributed losses to the abnormal rainfall — about half the normal amount for the fall of 1976 — and the lack of humidity. He stated that it was hard to find replacements for winter losses of many of their “bread and butter” plants. Mr. Mahone said that the kind and size of pruning tools are important — there is a tool for every job. He described the vacuum for cleaning inside boxwood plants, mist blowers for cleaning dwarf boxwood plants, and made recommendations for spraying, feeding, mulching, as well as the best time of the year to move plants.

Dr. Lambe's topic was Disease Problems in general. He said he would give the first half of the pathology report—the bad news, and Dr. Wills would then give the good news in his report. He described the symptoms of decline in English boxwood saying that cold injury and root rot symptoms are sometimes hard to separate — but in root rot the plant is dead from the roots up.

Dr. Wills said that boxwood decline studies were first supported by ABS and presently by the Westmoreland Davis Memorial Foundation in Leesburg. They have a student at VPI & SU carrying on research in soil moisture in the field (controlled) as compared with greenhouse moisture. Dr. Wills said he felt the proper place to approach the root rot problem is from the soil, and described various treatments to boxwood at Hilbert's Nursery and at Morven Park in Leesburg. He spoke of the control being fumigation of soil, followed immediately by fungicide to clean up the area. There has been some success with fungicide treatments started in 1975—enough to encourage continuation of the program. He described the home plantings and cemetery plantings in the Lexington area as about the same as in Northern Virginia. Also, he said that they had germinated some English boxwood seed which takes about a year to germinate and had about 50 seedlings in the greenhouse at VPI & SU.

At 2:35 P.M. the show-and-tell part of the program began and the Panel answered questions submitted by the members.

Mr. Ewert invited all members to have a courtesy plant as they departed.

Mrs. Dick gave directions to Glen Burnie for the tour at 3:30 P.M. Glen Burnie is the home of Mr. Julian W. Glass, Jr., located on Amherst Street in Winchester. His home and garden was open this year during Virginia Historic Garden Week offering a tour of its beautifully landscaped gardens, formal

cutting garden, water garden, Chinese garden, formal vegetable garden, and a charming pink Palladian Pavillion.

Members were invited to browse through the gardens at their leisure. Mr. Lee Taylor acted as host.

The meeting adjourned at 3 P.M.

Temperature 68° and sunny.

Minutes recorded by Anna C. Kirby
in absence of Linda G. Jones, Sec.
Respectfully submitted,
Linda G. Jones, Secretary

YOUR HELP NEEDED

Membership help is needed in providing the American Boxwood Society with kodachrome slides that would be suitable for a series of slide sets dealing with boxwood. Your society is interested in developing slide sets on various subjects that would be available on a loan bases for the membership, Garden Clubs, Vocational Horticulture teachers, Community College Horticultural Instructors, Extension Agents, Civic Organizations, etc.

Slide sets being planned are:

Boxwood Varieties
Boxwood Culture
Boxwood Diseases and Insect Problems
Historic Boxwood Gardens
Preventing Winter Damage to Boxwood
Boxwood in the Landscape
Planting and Transplanting Boxwood

If you have slides that you would like to donate, please mail to the American Boxwood Society, Box 85, Boyce, Virginia 22620. Please identify each slide as this will help the committee as they work up the various slide sets.

We would like slides of named boxwood varieties, historic boxwood gardens or examples of boxwoods being used in gardens or in foundation compositions.

Any help will be greatly appreciated, so please get your camera out, and shoot some boxwood pictures or check your slide collection to see whether you have any suitable duplicates.

Send all above to the Editor.

GRACE PERIOD UP

For sometime the publishing of the *Boxwood Journal* has been behind schedule. We are back on schedule, and it will now be necessary to check our membership mailing list and delete any names that are delinquent in reference to their annual dues. During the period we were behind schedule no names were removed for non payment of dues because we wanted to make sure that each member received the four bulletins that a member is entitled to each year.

Why not act fast and renew your membership so your name will not have to be removed from the mailing list. Send your \$5.00 membership fee to the Treasurer, Mrs. Thomas Ewert.

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Mrs. Edgar Whiting Honored At Blandy



Photo by Hank Ebert

Helen Whiting, left, receives a book dedicated to her on behalf of the American Boxwood Society from Albert Beecher, right, of Blacksburg, president of the Society. A special meeting of the Boxwood Society was held Wednesday at Blandy Experimental Farm at Boyce with Tom Ewert, director of Blandy.

Close to 100 people were in attendance as the American Boxwood Society held its 17th annual meeting at the Blandy Farm, near Boyce, on Wednesday.

The morning began with an "Early Bird Tour" of the Orland E. White Arboretum grounds at Blandy. After registration, coffee was served before the business session began at 10:30 a.m.

A highlight of the meeting was a presentation of a bound edition of all the volumes of the Boxwood Bulletin to the retiring editor, Mrs. Edgar M. Whiting of Winchester. Mrs. Whiting's years of tireless effort were responsible for many of the volumes of the Boxwood Bulletin.

During the luncheon recess a "Lona Baldwin" flowering peach tree was planted in the Boxwood Memorial Garden. The garden, which has been planned since 1975, is designed to honor individuals who have devoted their time and efforts to increasing interest in boxwood.

At its inception, the garden was primarily designed to honor Dr. J. T. Baldwin and Henry H. Hohman. The "Lona Baldwin" peach, which was planted in the garden, was a selection of a particularly attractive upright growing flowering peach which was

found by Dr. Baldwin and named in honor of his mother.

The specimen which was planted in the garden was a gift to Blandy Farm by the Bountiful Ridge Nurseries, Princess Anne, Maryland.

At 1 p.m. the educational session of the meeting began with a panel discussion based upon winter injury, pruning, feeding, and pest problems relating to boxwood and other ornamental plants. The panel was followed by a question-and-answer period.

Individuals serving on the panel included Professor Albert S. Beecher, president of the American Boxwood Society, Alden Eaton and Richard Mahone of Colonial Williamsburg, Dr. Henry T. Skinner, Bowie, Md., Charles Otey, Richmond, Dr. Robert Lambe and Dr. Wirt Wills, Plant Pathologists from VPI & S.U., and Dr. Clarence Hill, Superintendent of the Winchester Fruit Research Laboratory. The panel was moderated by Thomas E. Ewert, Blandy Farm.

Participants at the meeting were invited to attend a post meeting tour of the beautiful gardens at Glen Burnie, the home of Julian W. Glass Jr., where they were welcomed by Lee Taylor.

WINTER DAMAGE TO BOXWOOD

Albert S. Beecher

MH 169
Cooperative Extension Division
Va. Polytechnic Institute and State
University Extension Division

Boxwoods are susceptible to winter damage. The winter of 1976-1977 was especially severe and many boxwoods in a weakened condition suffered winter damage. To guard against damage this coming winter, it is important to understand why winter damage may occur, and to be prepared to take steps to prevent, or to minimize winter injury.

Causes of Winter Damage

1. An inadequate supply of soil moisture is often a contributing factor that causes winter damage to boxwood. Boxwood are potentially vulnerable during the winter to injury following an extreme dry summer or fall.

2. High winds during the late fall or winter may cause excessive transpiration which results in plants giving off unusually high amounts of moisture. If this moisture is not quickly replaced, damage may occur.

3. High, low or fluctuating temperatures can cause damage:

- (a) A sudden out-of-season freeze which hits plants when they are actively growing and are most vulnerable.
- (b) A sudden drop in temperature which may cause bark splitting. This is most apt to happen when a warm sunny day is followed by a bitterly cold night. Damage will be more severe on the side of the plant exposed to the sun because the range of temperatures experienced by the plant in that location will be greater.
- (c) A prolonged period of extremely low temperatures where the ground becomes deeply frozen and prevents roots from taking up moisture.
- (d) Low temperatures which exceed the normal hardiness range.
- (e) In mild or open winters, plants that were properly dormant in the fall may be coaxed into cambium activity on warm days, especially if they are exposed to direct sunlight. The recurrence of freezing weather injures or kills the new tissue thus formed, and sometimes causes the bark to freeze and separate from the wood.

4. Plants that are low in vitality or have experienced a growth check during the summer and are stimulated into untimely growth by rainy periods in the fall and do not have time to harden off their

growth before freezing weather are susceptible to winter damage.

5. Heavy loads of snow or ice that causes stems to crack.

6. Certain plants are more susceptible every year to winter burn or browning because of the genetic makeup of the plant. Therefore in taking cuttings for propagation it is important to avoid plants that show a tendency towards winter injury.

7. Plants that are allowed to develop aerial roots along the branches may have these roots damaged during periods of dry weather or extreme cold weather. When this condition occurs damage is observed in the upper portion of the plant. Removal of the debris that accumulates in the center of the plant will prevent development of aerial roots.

Symptoms of Winter Injury

Boxwood suffering winter injury may show the following symptoms:

1. The foliage is reddish brown, yellowish or grayish green or there is complete loss of color.

2. Death of entire branches especially in the middle and apical parts of the crown.

3. The occurrence of sunken areas in the bark of the trunk just above the ground line or in the crotches, and along the sides of main branches. Examination of the sunken bark may show that it is brown throughout or contains brown streaks and that in many places it has separated from the wood so that patches of considerable size can be stripped off. Cracks may develop in the stem.

How to Combat Winter Injury

Various management practices listed below may help to prevent damage.

1. Make sure the plants enter the dormant season in a healthy and vigorous condition with adequate soil moisture. If needed apply fertilizer before July and do corrective thinning during the spring. Check especially to see that the center of the plant is free of dead leaves and other debris.

2. During dry periods in the spring, summer, fall or winter, water as needed.

3. Provide wind protection for plants in exposed situations by using snow fences or lattice frames covered with burlap or pine boughs stuck in the ground.

4. Boxwoods recently transplanted will benefit if partially shaded or barriers are erected to cut down on wind penetration.

5. Provide a mulch of wood chips, leaf mold, or similar materials. A mulch protects by preventing rapid temperature change at the soil surface, deep penetration of frost, and excessive loss of surface water.

6. Remove snow from boxwood during or after a snow storm or as soon as practical by shaking the bush with a broom or stick. However do not attempt to remove snow if branches are frozen as breakage will occur. The weight of heavy snow may cause the stems to break especially if they are weak.

7. Large American boxwood may be protected against snow damage by wrapping the outer branches with strong nylon cord. Tie the cord securely to a low branch, pressing the boughs upwards and inward; wrap cord in an upward spiral around the bush, having cords 8 to 10 inches apart. Have cord tight enough to prevent breakage from excess weight of snow or ice but not enough to exclude air circulation around the plant.

If Winter Injury Occurs

When winter injury to boxwood occurs and is evident in the spring, check to see whether one of the management practices outlined in the section, *How to Combat Winter Injury*, has been overlooked and be prepared next year to make the proper adjustment.

If the plant has dead stems, remove these stems by cutting back to live wood. On plants where the foliage has turned a reddish brown, delay drastic pruning in the spring until after new growth starts. Very often plants that are fed and given sufficient moisture in the spring will produce new foliage and by the end of spring, the injured foliage will fall, and be replaced by new foliage.

* * * * *

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BOXWOOD AND WINTER OF 1977

Report from Membership

In response to the inquiry of winter damage to my boxwood of which I have a great deal, there was none.

However, the lowest temperature was about 10° above zero for many nights. I do think however there was some damage in different places in Washington, but as I said before, there was none in my garden. All of mine is Old English, and was very heavily mulched in the Fall.

From Mrs. Charles Stanley White
Washington, D. C.

May, 1977

WINTER DAMAGE OF ORNAMENTALS

Albert S. Beecher

MH 168

Cooperative Extension Division
Va. Polytechnic Institute and State
University Extension Division

Certain broadleaf evergreens and needle evergreens are vulnerable to winter injury. How serious a problem winter injury will be depends greatly on weather conditions. It is not always possible to prevent this damage, but some of the damage can be minimized if the steps outlined below are followed. It is also important for homeowners to understand the various reasons why plants may experience winter damage.

Symptoms of Winter Injury

Broadleaf evergreens and needle evergreens are susceptible to winter damage. The damaged plants may show the following symptoms:

- Scorched leaves
- Brown or reddish color of leaves
- Defoliation
- Split bark
- Dead branches
- Dead flower and leaf buds
- Foliage completely brown or yellow

These symptoms may appear immediately or they may not appear until spring when the plants begin to grow normally and then die.

Cause of Winter Damage

1. A sudden out-of-season freeze which hits plants when they are actively growing and are most vulnerable.
2. A sudden drop in temperature which may cause bark splitting and sun scald damage. This is most apt to happen when a warm sunny day is followed by a bitterly cold night. Damage will be more severe on the side of the plant exposed to the sun because the range of temperature experienced by the plant in that location will be greater.
3. A prolonged period of extremely low temperatures where the ground becomes deeply frozen.
4. Excessive moisture loss - high winds or temporary high temperatures.
5. Heavy loads of snow and ice that cause stems to crack.
6. Gnawing rodents.
7. Lack of hardiness. Some plants may survive several seasons before they are killed by extreme low temperatures.
8. Failure of the plant to enter the fall dormant season in a healthy and vigorous condition makes them vulnerable to winter damage. However avoid fertilization after July 1 as late fertilization will encourage new growth

that may not have a chance to harden off before cold weather occurs. If plants are fertilized in the fall, delay the application until late fall.

Measures to Prevent Damage

Some of these damages are beyond the control of the homeowner - but measures may be taken to modify their effects.

Water loss may cause severe damage or death of a plant. Water loss occurs in winter when high winds or temporary warm weather cause a plant to give off an unusually high amount of moisture. This coupled with frozen ground which prevents roots from taking up moisture for the plant causes the browning or burning frequently seen on evergreens or broadleaved evergreens in late February or March.

How to Combat Moisture Loss

1. Be sure the plant has plenty of water before it goes into the winter season.
2. Burlap or lath screens may be used to protect the plant from high winds or bright sunshine. Do not use plastic wrapped closely around a specimen plant because the temperature within the enclosure will be entirely too high when the sunlight strikes the plastic.
3. Use an anti-desiccant spray such as: Foli-Gard, Wilt-Pruf, Vapor-Gard. Spray on the foliage of needle evergreens and broadleaved evergreens. Normally around the end of November and February 1. Follow instructions on container.
4. A light mulch helps maintain a more even temperature in the upper layers of soil and is helpful in preserving soil moisture. This may also keep plants from starting into growth prematurely when a few nice days would warm exposed soil.

Good mulch materials are oak leaves, peat moss, bark mulch, straw and Christmas greens. Avoid maple leaves which tend to pack down and become moldy. Mulches are best applied after the ground freezes since their purpose is to keep the ground evenly cold, not warm.

A mulch which keeps the ground at an even temperature has the further advantage of preventing small plants, such as perennials and bulbs, from heaving out of the ground. When this happens after alternate freezing and thawing, roots may be exposed to the air. They will dry out and the plant may die as a result.

Growing Healthy and Vigorous Plants

During the spring growing season it is important to follow cultural practices that will help to develop strong and vigorous plants. Fertilize, water, and mulch as needed. Prune to develop a strong frame and to allow an adequate amount of light and air to reach the center of the plant.

Snow Protection

When a heavy snowfall occurs, damage to branches may be prevented by gently knocking snow off the plant with a broom or bamboo rake before it has time to turn to ice. Sometimes an inverted V frame is constructed to shelter plants vulnerable

to roof snow slides. A lath frame or a piece of plywood with sturdy supports may also be used for this purpose. Snow fencing may be used to protect a row of prized plants from winter winds.

Breakage from winter storms and heavy snow loads may be minimized by pruning out dead wood and potential weak spots such as crisscrossing branches before the onset of winter. Some plants, such as upright junipers and arborvitae, may be given a better chance for intact survival by tying branches together.

Protection of Bark

Bark splitting, especially a danger on newly planted trees, may be prevented by wrapping trunks with 4" burlap strips or with commercial tree wrap.

Rodent Protection

Hungry rodents, particularly fond of the bark of crabapples, mountain ash, hawthornes and winged euonymus, may be frustrated by a collar of 1/2 inch wire mesh cloth surrounding the plant's trunk from below the soil line to a height of two or three feet.

Plants in Containers

Gardeners growing permanent plants in containers face special problems during cold periods. Roots do not develop cold hardiness to the same degree as the top of the same plant. For example, while American holly tops can survive temperatures down to -20°, roots of the same plant are killed at 20 degrees above zero. For plants grown in the ground where the temperature does not usually go below 30 degrees even when the ground is frozen, this astonishing difference of 40 degrees is no problem. However, it does become extremely significant in container gardening for in an exposed container, soil temperature may reach 0°.

The gardener is almost powerless in the face of extreme winter conditions but he can take some measures which may tip the balance in favor of plant survival under normal conditions. Beyond that he can hope for a moderate winter with good snow cover and no raging winds.

Winter Protection through Planning

1. Select ornamental plants that are either native or are known to be winter hardy in your area.
2. Careful landscape planning and planting practices are also effective in minimizing winter injury. This is especially important when planting broad leaved evergreens that are known to be easily injured, such as rhododendrons, azaleas, camellias by planting on the North, Northeast, or eastern side of a building or barrier (fence, hedge, etc.) where they will be protected from prevailing winds and intense winter sun. These exposures will also delay spring growth, thus preventing injury to new growth or flowers from late spring frost.

Since heavy snow and ice can cause much damage to branches and trunks, it is important that plants be placed away from eaves and other snow or ice collecting areas. Plant in locations where snow and ice will not slide or fall on the plants.

Salt Damage

When salt is used on sidewalks or driveways for ice control, there is the danger that excessive runoff may harm nearby plants.

Special Warning - Fall Planting

Broadleaf and needle evergreens that are planted in the fall are especially vulnerable to winter damage if dry periods or excessive high winds occur during the winter months. When these conditions occur, excessive transpiration may occur and the foliage may become desiccated. Therefore, it is often necessary to water fall-planted shrubs throughout the winter.

Erecting a temporary screen of burlap or a section of snow fence will help to provide protection against high winds when shrubs are planted in areas that are exposed to high winds.

Mulching fall-planted shrubs is also beneficial as this helps to keep the soil moist, and provides some protection for the roots from freezing.

Recommended Cultural Practices

Keeping plants in a healthy condition is an effective way to reduce winter injury.

1. Correct planting
2. Proper pruning
3. Sufficient nutrients
4. Correct watering policy
5. Disease and insect free
6. Staking when needed

If Winter Injury Occurs

When the foliage of broadleaf evergreens or needle evergreens show winter burning or browning in the spring be patient before doing drastic pruning. Very often the damaged leaves will fall and be replaced by new growth. However, if all the leaves fall off and no life is evident in the stems, prune back to live wood. A spring feeding and watering program may be needed to help the plant recover from winter damage.

BOXWOOD AND THE WINTER OF 77

A Report from the Membership

During the late 1950's, we were not satisfied with the winter hardiness of the boxwood we were growing. Therefore, we purchased stock plants of about twelve cultivars from the Northeast and North Central States for testing. We have now discarded all of these except *B. semp. welleri* from our growing list. This cultivar from Michigan was so superior, we had no reason to consider others. *B. semp.* blough was reasonably good, but not equal to *welleri*. We do grow a small amount of *B. semp. vardar valley* due to its irregular form. *B. semp. welleri* had no winter damage whatsoever following the severe 1977 winter. *B. semp. suffruticosa* was severely damaged again this past winter of 1977. All cultivars of *B. microphylla* take the winters, but new growth pushes out too early here and is caught by late freezing almost every year.

From Carol Orndorff
Kalmia Farms Nursery
Clarksville, Maryland

April 28, 1977

The winter of 1977 was an extremely long and hard winter on ornamental plants up and down the east coast. In the spring, the members of the American Boxwood Society were invited to report on how boxwood survived in their particular area. The response from the membership was gratifying and portions from some of these reports are listed below.

A special thanks to all that responded, and we are sorry that space limitations prevented the inclusion of reports from all the members that were kind enough to write.

From Mariam G. Rabb

Administrator for Oatlands

Leesburg, VA

May 24, 1977

In response to the May Newsletter of ABS, I submit the following information about the condition of the Oatlands boxwood following the severe winter of 1976-77:

In December of 1976 severe freezing without snow or sleet and with many sunny days produced some "winter burn" on the English box parterres in the formal garden at Oatlands, particularly those in the areas receiving the greatest amount of sunshine. During January of 1977, heavy snow followed by freezing rain seemed to increase the problem, and a number of reddened or "straw-colored" areas indicative of English box decline were observed. However, these conditions seemed to affect only parts of individual plants and when the affected areas were removed the remaining portions of the plant were found to be healthy. As soon as the snow had melted sufficiently, fertilizer was applied to the parterres most affected - primarily those on the south terrace, and along the terraces descending to the south below the balustrade. We used - as we have in past years - equal parts of bone meal, blood meal, and 10-10-10 with the approval of Dr. R. C. Lambe, VPI & SU Extension Specialist in Plant Pathology. At the recommendation of Dr. Lambe we also used a limited amount of 14-14-14 Osmocote for the first time. The results have been entirely favorable, and this spring we have observed faster and more vigorous growth of the English box than ever before. I should also add that the American box has also been growing rapidly, and is seemingly unaffected by winter kill. Most of our American box is very large and well established; however, even the tiny seedlings which come up under some of the old box have been unusually vigorous this spring. On the English box, very little evidence of winter burn or decline can be seen today, and I would say that our box is generally in as good or better condition than it has ever been at this season although we have had insufficient rain and cannot water the entire box areas. We have not lost any plants, English (*suffruticosa*) or *Arborescens*. However, some of the "holly box" (*Ilex*) was severely damaged, and one large plant had to be removed because of almost total winter-kill.

We had temperatures below zero for at least half a dozen nights in January, but think the snow helped protect the box roots.

From Charles H. Berry
Easton
Maryland 21601

June 14, 1977

On my property I have about 36 English box bushes. They range in age from 7 years to 20 years old. In size from one foot in diameter to 3 feet in diameter. Then about 8 of 6-year old bushes ranging to about 1 foot tall (in addition to above).

My bushes are all located on the west side of the house and receive the effect of wind directly from the creek so the chill condition is maximum. Our lowest temperature recorded was -2°F. None of my bushes have shown any winter damage.

I have two long rows of American box which have been here for a large number of years. As far as I can tell there is no indication of winter damage.

The past 12 months has been very trying on all shrubs in this area as we are running 50% below normal rainfall.

From Joseph A. Yakaitis
Washington, D. C.

May 25, 1977

As you requested in your newsletter of May 2, I wish to report that our boxwood survived this winter's extreme cold unscathed.

We have about 30 mature (35 years old) plantings and are located in upper Northwest Washington on a half acre of ground. I attribute our lucky survival to the fact that we had diligently mulched all our box with wood chips that remained from the residue of a previous summer storm which wrecked havoc with our 80 foot trees.

All of our box are green, fresh appearing, and most appealing in color and texture. We consider ourselves lucky and pleased.

The lowest temperature was 5° above zero.

From Edward L. Stock, Jr.
Hanover Farm
Beallsville, Maryland 20704

May 11, 1977

Winter injury far less on all boxwood varieties that we grow than on many other broadleaf evergreens.

Prunus laurocerasus *skipkaenis*, *zabelliana* & *occidentalis*; *Ilex crenata* varieties; *Ilex cornuta* varieties; *Ilex opaca* and *ilicifolia* in certain places; *Ligustrum lucidum* and varieties; some dogwoods (*Cornus florida*). *Quercus phellos* in certain places, azaleas in many varieties, all of the foregoing plants were severely injured or killed. The culprit, we believe, was not so much the cold as the cold combined with lack of moisture and exposure to winter sun. All plants were growing in our nurseries at Hanover Farm in Beallsville, MD. Temperatures here got to 2 above zero F.

We are, at this writing, about 5 inches short on rainfall since January 1, 1977.

From J. T. Averitt
Kilmarnock, Virginia 22482

May 23, 1977

Concerning winter damage, we did not experience a great deal to *Suffruticosa* and an "unnamed" variety. There was some dieback at the tips, but we did not lose a single one of our hundreds of two and

three year old plants. This could well be attributed to our practice of keeping plants well fertilized and well watered, even throughout the winter. I do not recall the lowest temperature for the area. As to location, we are on the Chesapeake Bay just north of the mouth of the Rappahannock River.

From William A. Gray
Madoc Hall
Crozet, Virginia w22932

May 6, 1977

Percentage of Plants:

Plant Name	Quantity	Unscathed	Dessic foliage	Prun req'd	Survived
English Box	280	80%	20%	7%	100%
Varda Valley Box	15	100%	negl.	0	100%
"Memorial" Box	15	100%	negl.	7%	100%
Heller Holly	85	6%	100%	60%	75%
English Yew (repandens)	35	30%	70%	50%	80%
Evergreen Azalea	25	15%	85%	50%	90%
Cham obtusa 'nana gracilis'	75	96%	4%	0	100%

Please note that all plantings were stressed by two dry periods in 1976 - April and July - even tho irrigated; and that the extended cold weather from Dec. until early February resulted in deep freezing of the ground. My lowest noted temperature was 4°F, but lower readings were frequent in the area. All the boxwood (save one) are in full sun and exposed to west winds.

I was surprised by two results: foliage desiccation on English Box was no greater (perhaps less) than for some previous winters; and the Heller Holly suffered far more than I expected - probably, my 75% survival (an estimate at this time) is optimistic.

From J. E. Warrell
Carlisle, Pa. 17013

May 9, 1977

I have about 100 American Box mostly in exposed positions in which I suffered no damage at all. I have about 100 Old English, mostly in lightly protected areas and I lost one in the middle of a row for no apparent reason.

From Mrs. Francis Coleman
Baltimore, Maryland 21218

May 9, 1977

I am also delighted to tell you that at my eastern shore home in Kent County, Maryland, not one of the more than a dozen box on the grounds suffered even tip burn on the leaves. They took all old winter '77 had to offer. Among our box is a 12' high clump of *sempervirens* that is approximately 50' in circumference. But even the tiny *suffruticosa* came through equally unscathed. The lowest temperature on our grounds in Kent County was between 1 degree F. above and zero. Call it whichever way you like. This occurred at 6 AM 1/17/77. The lowest recorded for that date elsewhere in the county farther from the bay was reportedly -3°F.

THE ROYAL PALACES

Philip Howard

GAMBIT INCORPORATED, BOSTON 1970

THE FIRST ROYAL RESIDENCES

Chapter II pp 15-18

"With the Romans history and palaces arrived in Britain. The first and greatest palace was discovered in 1960 by a workman digging a trench for a water-main at Fishbourne, just west of Chichester in Sussex. His mechanical digger scooped into a great mass of Roman tiles, mosaic and masonry. Over the next eight years the excited arhaeologists uncovered and pieced together the ground plan of a building, which makes every other Roman villa in Britain of the period look like a doll's house, and is as big as the palaces of Nero or Domitian at Rome. It is just as well that neither of these particular Emperors visited Sussex to draw suspicious, green-eyed deductions about the occupier.

'Palace' is not too enthusiastic a word for a six-acre building which is without parallel outside the heart of the Roman world. It was built some time around 75 A.D. in the form of a hollow square with sides a hundred yards long. Inside the square was an enormous formal garden, laid out with paths and box hedges, and the Italian passion for horticultural symmetry and statuary. The English unofficial rose, and the unkempt, over-flowing herbaceous border are evidently native inventions, not imported. In the East wing was an impressive entrance hall with ornamental fountain, and flanked by guest rooms. Across the garden, reached by a forty-foot wide avenue between a symmetrical twisting pattern of low box hedges, was the west wing with its audience chamber and other large state rooms.

The north wing contained private and luxurious suites of apartments arranged around two small colonnaded gardens, presumably for the use of important visitors. The south wing still lies under the modern road and some houses, but trial trenches confirm the hypothesis that this was the private wing of the palace, with a colonnade facing the south, and a garden running down to the beach. In these southern courts the owner of the palace him-

self gloried and drank deep his imported wine. The bath suite, so essential to Roman standards of living, and so strange and alarming to Britain, was in the south-east corner of the palace, and is actually larger than the public baths later erected at Roman Silchester.

Almost all the rooms in the palace had bright mosaic floors of an intricacy and geometric beauty not found anywhere else outside the Mediterranean; more than sixty of them have been uncovered so far. The most magnificent surviving floor shows Cupid riding on a dolphin, surrounded by horrendous sea monsters. This one was laid by second-generation owners of the palace in the middle of the second century A.D. The interior decoration was ornate and sumptuous. Some of the walls were inlaid with streaky Gorgonzola marbles imported from as far away as Greece and Turkey. Mouldings of white and blue marble framed the doors and windows. Other rooms had brightly painted plaster or moulded stucco friezes. Indubitably a great many specialists, craftsmen, marble-workers, plasterers, mosaic-makers must have been brought to Britain expressly to create this palace, regardless of expense.

Such a building would have raised eyebrows in Rome itself. Its impact on barbarian Britain at the end of the first century A.D. must have been stupendous. The tantalizing question, of course, is, whose palace was it? The historians plausibly deduce that it must have belonged to *Rex Cogidubnus*, King of the Atrebates (in other words, of the tribes that lived in the area that later became Sussex, Hampshire and Berkshire). He was the client-king who collaborated with the Roman immigrants, and gave them a firm base on the south coast from which the future Emperor Vespasian could fan out and conquer the west. Tacitus (calling him *Cogidumnus*) awards him a slightly double-edged pat on the back for remaining consistently loyal to Rome 'down to

QUEEN OF THE EVERGREENS

Charlotte Taylor Massie

our own times.' A famous but difficult inscription found at Chichester attributes to him the title of "*Legatus Angusti*," a unique, unheard-of honour for a vassal-prince, giving him the equivalent rank of a Roman Senator. The main arguments for Fishbourne Palace having been built for Cogidubnus are negative. There are no other obvious candidates in the field. Chichester was his capital. For anybody else to have lived in the palace on his doorstep would have been a humiliating insult to the old Quisling, which Rome would never have allowed.

Fishbourne flourished in spectacular magnificence until about A.D. 100, when there are signs of a change of ownership. The building was divided into a series of flats, and the Roman architects, having found out about the British climate, installed central heating. Finally, about A.D. 270, while further alterations were taking place, including construction of new, underfloor heating, almost the whole building went up in disastrous flames.

This may have been an accidental fire started by the workmen. Or the place may have been burnt in a raid by the pirates who were busy in the Channel during the late third century. The charred debris, the brilliant mosaics, even the memory disappeared beneath the Sussex turf until 1960. They have now been disinterred and put on public exhibition, the earliest royal residence, the oldest stately home in Britain. Here can be seen coins stamped with the plump, benevolent face of Vespasian, the tweezers for plucking the eyebrows of elegant Ancient British girls, the tiles marked with footprint of a long-dead dog. The palace and its garden, ashes under Chichester for so long, provoke sobering thoughts of mortality and of the vanity of interior decoration. But they also give a comforting feeling of continuity, that 2,000 years ago green-fingered English gardeners loved their roses and their Madonna lilies. At Fishbourne, better than anywhere else in Britain, a man can see not only the grandeur, but also the green garden veranda, that was Rome.

Lisburne is a stately house in Gloucester County which has been handsomely restored and added to in 1964. The original gardens are being restored, and a new formal boxwood garden has been added at the front of the house.

Visitors to Historic Garden Week in Virginia may obtain, free of charge, the 140 page guidebook giving details descriptions of the houses and gardens from the Historic Garden Week Headquarters, 12 East Franklin Street, Richmond, Va. 23219.

Used by the Romans for hedges and topiary work, the valuable boxwood lends grace and charm to a garden. From its early morning dewy fragrance to its evening sun-kissed aroma, no other garden ornament can replace the boxwood in any of its numerous varieties. It would be hard to picture an historic garden, especially in Virginia, that did not have as its background for the other plantings the "Queen" of the evergreens.

Beyond its beauty and dignity, this hard uniform wood furnished Albrecht Durer with material for his wood blocks and is still used today by many of our artists.

Happily the time to clip is in the fall when it is transferred from the garden to the door in the form of wreaths tied with handsome ribbons; kissing balls hanging from chandeliers; topiary trees that decorate entrances for the holidays. Florists from New England contract with Virginians to clip the smooth broad leaf shrub for decorations for the holiday season in Northern cities where it does not grow as lush and green as it does in the Old Dominion.

The houses and gardens to be presented by The Garden Club of Virginia during its Historic Garden Week, were selected to include examples of Virginia's great heritage from its beginning to the present day.

Matching the pre-Revolutionary houses built by prominent men in colonial history are the glorious gardens in a fascinating variety of designs. In all of these layouts, regardless of scale, effective plantings of boxwood blend perfectly with other shrubs and seasonal flowers.

Rose Hill in Hanover County was listed in the government study of old Hanover homes as having been built about 1750. Lovely boxwoods surround this charming house and the old kitchen which is now a delightful guest house. Many of the old boxwood, which formed a walk and large circle in the front yard, were sold by a previous owner to assist with the restoration at Colonial Williamsburg.

Springfield, located in Hanover County, was built by General Thomas Nelson's sons for their mother, Lucy Grymes Nelson. Mrs. Nelson planted the boxwood circle in front of the house which consisted of 1000 year old English boxwood with a tree boxwood in the center.



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July 1977

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MAILBOX

An Invitation

Members of the American Boxwood Society are invited to visit the Colbert Garden in Arlington, Virginia. Details are explained below in the letter from Mrs. E. E. Colbert.

Dear Editor

May 17, 1977

I am a Charter member of the American Boxwood Society and have been raising boxwood at my home in Arlington, Virginia (4733 Old Dominion Drive) since 1938. I am listed in the directory of Northern Virginia Nurserymen and as such my boxwood receive an annual State Inspection. In Virginia I have several hundred specimen size *Buxus Sempervirens Suffruticosa*, as well as some of the faster growing varieties.

At my farm, R. D., Loysville, Penna. 17047, near Carlisle, I have a number of very interesting variegated boxwood seedlings, a few of the fast growing tree type and some *Suffruticosa*. I used a number of my boxwood when I planted and donated them to landscape at Perry County Health Center in Loys-

ville, where they have survived our very hard winter well.

Boxwood Society members are welcome to visit my gardens, but I would appreciate being contacted in advance. I spend most of my time at my farm in Penna., but would be glad to arrange in advance to be in Arlington.

Mrs. E. E. Colbert

R. D.

Loysville, Penna. 17047

WILSON M. BROOKS

808 Maybeury Drive
Richmond, Virginia 23229

July 27, 1977

Dear Admiral Phillips:

Mrs. Brooks and I attended the Boxwood Society meeting in May, at the Blandy Experimental Farm, and I had meant to write you before this, to tell you that you were greatly missed and that we both regretted that we did not have the pleasure of seeing you there.

No doubt you have had a complete report from the committee on the proceedings, but thought you might like to have one from a "lay person" like myself.

The meetings were well attended, especially the afternoon meeting, when the room was crowded. Dr. Beecher presided in a brisk, workmanlike manner, pleasant and efficient. Of intense interest to the audience was the question-and-answer period in the afternoon. The panel sat up front in a semi-circle, and the audience was prepared with samples of their poor, failing, or dead boxwood for the panel to analyze. Sometimes a member of the audience would volunteer a solution, based on their experience. It was hard really to conclude the meeting, as people with problems wanted to linger with their questions.

We were happy to see again a personal friend, Mr. Dick Mahone, of Williamsburg, who was one of the speakers and panel member.

All are most anxious to have Dr. Wills and Dr. Lambe come up, if possible, with some solution to the boxwood root rot which they are doing research on, but which, at the meeting, they had no solution as yet.

You were kind enough two years ago to offer us some advice on the sale of some of our boxwood. You may be interested to know that we sold 50 boxwood bushes, half large American, and half English dwarf, to V.M.I., and then made them a gift of 11 more. They have thrived well in the transplanting. We inquired by phone only last week of their grounds keeper how "our" boxwood were doing, and in spite of the severe winter and our current dry spell, he said they were all doing well.

We were sorry to hear at the meeting you were troubled with asthma, and trust the climate of Arizona will be helpful. Do hope you will be entirely cured, and will return to Virginia. You are truly missed.

With kindest personal regards, I am

Faithfully yours,
Wilson M. Brooks

Rear Admiral Neill Phillips
"Cherokee"
Upperville, Virginia 22176

THE AMERICAN BOXWOOD SOCIETY

INFORMATION

Address: Box 85, Boyce, Virginia 22620

DUES AND SUBSCRIPTIONS

Regular membership dues of The American Boxwood Society are now \$5.00. This includes a subscription to *The Boxwood Bulletin*.

Non-member subscriptions are for groups and institutions such as botanic gardens, libraries, etc. These are \$6.00 a year, and run by the calendar year.

The Boxwood Society year runs from one Annual Meeting to the next; from May of one year to May of the next year. Those joining the Society at other times are sent all the *Boxwood Bulletin* issues for the current Society year, beginning with the July number. Their dues are then again due and payable in the following May. This was voted by the Society in order to lighten as far as possible the heavy work load of our busy Treasurer.

At the present time any or all *Bulletins* are available, back to Vol. 1, No. 1 (Vol. 1 consists of three issues only, there was no Vol. 1, No. 4.) Price per single copy is \$1.50.

Besides regular membership dues at \$5.00 per year, there are other classes of membership available: Contributing, \$10.00; Sustaining, \$25.00; Life, \$100.00; and Patron, \$500.00.

Gift memberships are announced to the recipients by boxwood-decorated cards which carry the information that *The Boxwood Bulletin* will come as your gift four times a year.

Members of The American Boxwood Society are reminded of the 1968 IRS decision that contributions to and for the use of the Society, are deductible by donors as provided in Section 170 of the Code.

FOR YOUR ADDRESS BOOK

If your letter is concerned with
Membership, new or renewal
Payment of dues
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Ordering back issues of the *Bulletin*
Ordering Dr. Wagenknecht's List

Write to:

Mrs. Thomas E. Ewert
American Boxwood Society
Box 85
Boyce, Virginia 22620

If your letter is concerned with:
General information about the Society
Advice concerning boxwood problems or cultural information
Boxwood selection

Write to:

Mrs. Linda G. Jones
American Boxwood Society
Box 85
Boyce, Virginia 22620

In some cases depending upon the nature of your request, your letter may be forwarded to a member of the Board or another appropriate member who can provide the help you have requested.

You are also welcome to write direct to the President of the American Boxwood Society:

Professor Albert S. Beecher
Department of Horticulture
Virginia Polytechnic Institute and State University
Blacksburg, Virginia 24061

If you have contributions for the *Boxwood Bulletin* - articles, news notes, photographs, suggestions of anything of probable interest to boxwood people, it saves time to direct them to the Editor:

Mrs. Charles H. Dick, Editor
The *Boxwood Bulletin*
514 Amherst Street
Winchester, Virginia 22601



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Above you see a reproduction of our gift card just as it would go to one of your friends announcing your gift membership to them for one year. The Society year runs from May 1 to April 30, or from one annual meeting date to the time of the next annual meeting.

Regular membership dues at \$5.00 per year, and includes a subscription to The Boxwood Bulletin. Other classes of membership available are: Contributing, \$10; Sustaining, \$25; Life, \$100; and Patron, \$500. The higher classes of membership provide income which permits the publication of more plates or of additional pages in the Boxwood Bulletin, as well as the expansion of other society activities. Names of those holding Contributing, Sustaining, Life, and Patron memberships will be published each year in the January issue of The Bulletin.