

THE

Camellia Review

July

1957

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Vol. 18

No. 8

Fifty Cents



Southern California Camellia Society Inc.

An organization devoted to the advancement of the Camellia for the benefit of mankind—physically, mentally, and inspirationally.

The Society holds open meetings on the Second Tuesday of every month, November to April, inclusive at the San Marino Women's Club House, 1800 Huntington Drive, San Marino. A cut-camellia blossom exhibit at 7:30 o'clock regularly precedes the program which starts at 8:00.

Application for membership may be made by letter. Annual dues: \$5.00.

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Camellia Reviewer

ELIZABETH BEEBE

No Chitchat

This is not the time nor is there room in this issue for a long Reviewer of pleasant camellia chit chat. This month we have endeavored to cram a wealth of camellia material into these pages, information that although timely, will live beyond chit chat. And working over the membership list we felt again (as we did when we published it for the first time two and a half years ago) that it will be a revelation to our readers, to say nothing of serving them well. We hope there will be bits of real information in these pages and suggestions that will spur you, our readers, on to experimentation and the realization of camellias that will meet your most rigorous standards and satisfy your highest desires. We shall be proud if the Review will be a part of the forward trend.

We are not worried about the Camellias, for we have a suspicion that they will go along with everything — Malathion; Gibberellic Acid; compost of pine needles or peanut hulls; soils technically treated or as Nature provides; and perhaps twirl a petal at all the fuss. And as a reward some of them will be so beautiful as to make you catch your breath, and others so sweetly commonplace that they remind you that though there are heights to be scaled, one must live for the most part on ordinary routine.

We are not worried either that Camelliaphiles are tired of working with their darlings for enthusiasm seems to bubble up from more places than we can count. From New Zealand to Virginia for instance, as Milton Brown, Ex-President of the Potomac Society writes that their 1957 Show showed a tremendous stride

forward in that of the 152 varieties exhibited, *all* were grown in the immediate area. There were many formal doubles too, he says, disproving the old wives' tale that singles and semi-singles are best for colder climates. We are interested in noting that the Potomac president's gavel is fabricated from the wood of a 'Hibiscus Blush' (from Dave Strother's garden) and made by Dr. John Nunamaker of Arlington.

Take it all around, this may be the lazy season for camellias but bless their hearts, they are responsible for a heap o' bustling on the part of those interested in them.

California Echo

We simple cannot resist taking a bit more space to report what certainly will stand out as the prize camellia boo-boo of the year. Some unknown caption writer who works for the Sea Coast Echo, a newspaper of Bay St. Louis, Mississippi, noted beneath a picture of participants in the Gulfport Camellia Show, quote: "the American Camellia Society's 'All American' Camellia, the beautiful bright yellow 'Cinderella'." This stunning double error brought a long and wrathful letter from Arthur Brown, Editor of the American Camellia Society's Yearbook, explaining that the American Camellia Society had no connection with the All America Camellia Selections and also that the reporter must have been color blind. On the same page with Mr. Brown's letter, the Echo's editor who obviously knows nothing whatever about camellias, and is unaware of the thousands of intelligent camelliaphiles, wrote a breezy and ironic editorial entitled "Tempest in a Teapot." In this he accused Mr. Brown of being "ungenerous, petty and sharply discourteous," and was surprised at Mr. Brown's ignorance of the fact that captions are often written long after the photograph was

(Continued on Page 36)

CARYLL PITKIN IS NEW S C C S PRESIDENT



The newly elected President of the Southern California Camellia Society is shown here with Mrs. Pitkin in their own extensive camellia garden.

A camelliophile of many years' standing, Mr. Pitkin is a long time member of the society, serving it in various capacities, including those of Program Chairman and Society Director. His present position as President he declares to be the highlight of his camellia-life, eclipsing even his chairmanship of last year's joint Camellia Show which was an undisputed success.

Asking Mrs. Pitkin how much time her husband spends with his camellias, she responded quickly, "all his waking hours at home." Her part in the camellia culture is watering, disbudding and pruning — the latter done when her husband is not looking for she says he "just can't bear to cut his plants."

This combination of duties has paid off handsomely in the satisfaction of receiving many "firsts" for Mr. Pitkin. However, he says carelessly that he just throws his ribbons in a drawer in the dresser.

The Review suspects that that particular drawer nevertheless may well hold a vital part of the background for a successful reign of Caryl Pitkin as President of the Southern California Camellia Society.

CAMELLIAS AND SUMMER SUN

By HELEN DOBSON BROWN

It is quite generally recognized that camellias need heat and light, not only for proper growth and bud set, but for flowers worth the trouble of growing. In addition, other factors, such as drainage, soil, wind exposure, and moisture must be favorable for desirable and satisfying results. All of these are so interrelated that it is difficult if not impossible to talk of one without at least being cognizant of the others; and all must be considered, it seems to me, primarily from the standpoint of the location of the plant in relation to the sun. I am speaking of those camellias grown out of doors, of course.

Having stated the premise of this article, let me also establish my viewpoint. I am strictly an amateur camellia fancier, who shares with my husband, a home, a small greenhouse, and several hundred camellias on an average city lot in Sacramento, California. In other words, this is not a scientific treatise; but merely some personal opinions based on personal experience on the subject of the sun as a challenging summer problem—and location as the primary factor of control.

I have no quarrel whatever with those growers who contend that camellias will grow in full sun. But from our experience, trying to grow camellias in full sun here in the Sacramento valley, without even partial protection in summer, is like forcing your children to do everything the hard way. Some camellias will survive full sun treatment, but we have seen only a few in full sun which would be considered good specimens. And seldom do plants in full sun produce outstanding or even consistently good flowers.

Whenever someone asks me about growing camellias in full sun, I cannot help but ask some of the following questions:

Just why do you wish to grow your camellias in full sun?

Is the sunny location you have in mind the only space available; and if it is, do you object to an attractive partial shelter such as lath?

Do you wish to prove camellias will grow in full sun; or do you want outstanding camellia blooms?

For eight or nine years, for the sake of experiment, we have been trying to grow camellias in the front of our house which faces west. I say trying, advisedly, because during that time a number of the plants just simply did not survive, even with partial shade supplied by large trees from midafternoon to sundown. Of course, as always, drainage, soil, and insufficient moisture may have at least partially influenced the results, in spite of special precautions taken to avoid this possibility.

But even the plants which have survived are not, so far, good specimens of their variety. In every case, the same variety in another part of the garden with better exposure, is superior in form, foliage, and flower.

Here in the Sacramento valley we have the variation of climate which seems particularly conducive to fine foliage and beautiful blossoms. Our warm summer days appear to be the key to satisfactory growth and bud set. This heat, however, also provides the camellia gardener with a challenging problem as far as location and adequate watering is concerned.

If you live in a similar climate, and if your objective is a good plant and worth while flowers, it is safest to select a location in your garden which affords partial shade for your camellia after two o'clock in the afternoon. One of the following exposures is excellent: An east side with full morning sun and afternoon shade;

AWARD ANNOUNCED

William E. Wylam, Chairman of the Hertrich Awards Committee, makes the following announcement, quote:

"The Hertrich Awards Committee met May 14, 1957 to determine the winners for the current season.

"The seedling *C. japonica* 'Billie McCaskill', developed by McCaskill Gardens, received the highest point scores in the judging and, therefore, is announced the winner of the Margarete Hertrich Award for the 1956-57 blooming season.

"No mutations were entered or judged for the William Hertrich Award."

Mr. Wylam adds a personal comment, quote:

"While not to be classed as a large Camellia, 'Billie McCaskill' attracts instant attention by reason of the beautifully shaded soft pink colors and the superlative touch of distinction added by the delicately fimbriated petals. The whole bloom possesses that certain indefinable something which, for lack of a better term, we sometimes call 'class.'

"In my opinion, it is the most outstandingly distinctive Camellia introduction of the last ten years. Our sincere compliments to both the Camellia and the Lady for winning the Margarete Hertrich Award for 1957."

SUMMER SUN *Continued*

continuous half sun and shade the whole day under lath or high branching trees; or northern exposure which is shady in the afternoon.

Many growers rely on mulches to offset burning and drying of surface roots. But a mulch will not compensate for a poor location in the first place; neither will a mulch prevent burning of the leaves due to over-exposure to hot summer afternoon sun.

A few hours of summer sun during midday seems unlikely to damage a judiciously chosen variety of camellia if other factors such as drainage and soil are favorable, and if the plant is given sufficient water. Avoid, however, planting any camellia in front of a wall which gets full sun in the afternoon for even a few hours. The reflected rays of the sun will actually give your plant double exposure.

Sometimes an exposure can be arranged. For instance, we arranged a northern exposure facing our garden

by placing a grapestake fence along the property line at the south. Often a less than ideal site can stimulate ingenuity and result in an unusually attractive effect. Even a lathhouse or a lath structure, when planned with imagination, can be charming addition to your garden—at the same time being practical and functional.

No doubt it is obvious by now that we do not recommend full sun exposure for any camellia in climate such as ours. However, in our experience, we have found the following varieties to withstand more sun than others without leaf burn: 'Ville De Nantes,' 'Fred Sander,' 'Gigantea,' 'Pink Perfection,' 'Colletti,' 'Lindsay Neill,' 'Paeoniaeflora,' 'Mrs. Charles Cobb,' 'Elegans,' 'Lady Clare,' and 'Kumasaka.' The newly introduced 'Cinderella' may be expected to join the list, since it is a sport of 'Fred Sander.' And of course there are many new varieties on the market which are as yet untested and unproved in the respect.

CHLOROSIS IN CAMELLIAS AND A POSSIBLE METHOD OF CONTROL

By JOHN ROBINSON

The need of supplying the minor elements in the nutrition of Camellias has been a controversial subject for a great number of years. There have been those that have held that a sufficiency of the minor or trace elements is available in the soil at all times. Others have felt that there were not sufficient quantities of these minor elements in the soil or if they were present they were unavailable.

Hume in his book "Camellias—Kinds and Culture" states, in discussing the minor elements: "Their absence from the soil is usually indicated by the lack of proper development of green coloring matter (chlorophyll) in the foliage. This condition is referred to as chlorosis, and a definite pattern often follows for each substance that is absent entirely or present in short supply. Intake and use of iron appears to be affected seriously and this is reflected in lack of green coloring in the foliage." Recently a great deal of study has been given to the need for the minor elements by plants. It has been fairly well established now that plants do need minor elements to thrive and do their best, however, unlike nitrogen or phosphorus, they need them only in very small quantities. According to recent reports these elements are available in sufficient amount in the Western soils with the possible exception of iron. That is, a sufficient quantity of these lesser nutrients is there, providing the conditions are such that they are available to the plant.

In the 1953 American Camellia Yearbook, Johnstone says, "Camellias apparently need more iron, and possibly manganese, than most other plants, therefore they do best in a pH of 5.0 to 5.5. If somehow Camellias could get sufficient iron and manganese in a pH of 6.0 to 7.0, they should thrive best at this range." Since Camellias are known to be acid-loving plants it has been standard procedure for years to give a sick or yellow foliage Camellia an application of soil sulfur or some other acidifying

medium. What we were actually trying to do was to get the pH down below 5.0 where iron and manganese are at their maximum availability. In giving this remedy, an overdose was not uncommon and the pH was lowered to such an extent that the plant either died or struggled along until the pH rose more toward neutral either by leaching of the soil or by the action of alkaline water. A disadvantage, of course, of lowering the pH of the soil to 5.0 or below is that at this level the availability of the major nutrients—nitrogen, phosphorus, and potash—drop off sharply.

Several years ago articles started appearing in the technical scientific journals on the use of iron chelates for the prevention of chlorosis in citrus and orchard trees. "Chelate," the chemist says, means "claw." In other words, an iron chelate molecule is one where the iron is surrounded as by a claw, and thereby protected from destruction or oxidation. These articles were of a great deal of interest to me for in my collection there were a number of plants that were in a sickly condition and appeared to have chlorosis. These plants had been given the usual treatment as recommended in the books on Camellia culture such as repotting, conditioning with an acidifying agent, and the application of iron sulfate. After each of these remedies was applied the plants showed improvement for a period of time but sooner or later would lapse back into their chlorotic

or semichlorotic condition. On the premise that what was good for the citrus trees *might* be equally good for Camellias I went in search of an iron chelate compound. It soon developed that this was not an easy material to find. Nursery supply dealers as a rule had not even heard of the material. While discussing this problem with Julius Nuccio of Nuccio's Nursery, it developed that they had a product for experimental use on Camellias and Azaleas. Their material contained 3.25% nitrogen from ammonium sulfate, 14.2% iron from iron sulfate, and a chelating agent. A small amount of this material was obtained and given to the ailing plants according to directions—one tablespoon per gallon of water every two weeks.

This treatment was started in the Summer between the two cycles of growth. The first growth cycle on the sick plants had been very short, amounting to two or three very yellowed, poorly developed leaves. The second cycle of growth came out quite normally and was approximately twice that of the first cycle.

The results of this first and uncontrolled experiment with the material was so encouraging that a larger quantity of the material was then obtained and monthly feedings were given to all of the plants in the collection. The blooms the following winter were of better quality and size than previously, but this could have been due to a number of other factors such as general weather conditions or the fact that the plants were one year older. The feeding schedule using Nuccio's stabilized iron was carried on at regular monthly intervals throughout the next twelve months and the plants seemed to be in such good condition that it was decided as an experiment to eliminate the usual Spring and Summer feeding of a regular balanced fertilizer. The blooms the following year were larger

and had better substance than the previous year, and the condition of the plants was so good that a number of Camellia hobbyists commented on them and inquired what treating program was being used.

Shortly after this, in the Spring, our family moved; and it became necessary to discontinue the regular feeding program. During the following Summer and Fall the plants received two applications of a balanced fertilizer and sporadic applications of stabilized iron whenever time permitted. The blooms last winter, I feel, were greatly inferior to those of the two previous years, which could have been partially due to the moving of the plants to a new and more shaded environment.

In summarizing this material, for a Camellia to get sufficient iron and manganese, the pH of the soil should be approximately 5.0, however, at this point the availability of the major nutrients is greatly reduced. If iron can be supplied in a form that is available to the plant at a pH of 6.0 to 7.0 then the plant will be growing under the best conditions possible. Until recently it has been difficult to supply sufficient iron to a Camellia at this pH level, however, now with the chelating compounds available, it appears that this difficulty has been overcome.

All of the foregoing are the conclusions I have drawn from the studies made of this subject and observations of very uncontrolled experimentation. Controlled tests using the chelates should give more information as to their effectiveness in Camellia culture as well as the amounts required. It is hoped that in about two years the results of a controlled test I am running for Crown Zellerbach Corporation with their chelate, Greens 26, will give us this helpful data.

CAMELLIA TROUBLES IN GREAT BRITAIN

By CHARLES PUDDLE

There are very few pests and diseases which attack camellias when they are grown in the open in Britain, and most of our serious troubles are confined to plants grown under glass. In the warmer regions of the south-western seaboard, Scale is sometimes found on plants in the open garden, but never reaches serious proportions. Flower Blight is unknown and Die Back only occurs on rare occasions.

Most outdoor camellias are planted in woodlands and especially where beech and birch predominate, foliage is often damaged by Vine Weevils. The removal of regular notches from the leaf margin weakens the plant and causes serious disfigurement to the lovely foliage. Leaves are also holed by the Clay Coloured Weevil and under oaks the characteristic leaf-roll damage of Tortrix Moths occurs. All these pests are repelled by spraying the foliage with a stomach poison such as Lead Arsenate. This must not be applied in strong sunlight; the wash must be constantly agitated, and the spray kept clear of any edible crops. If the Weevil attacks are serious, proprietary poison baits are available.

The most prevalent disorder of camellias in the open is "Bud Drooping." There are many factors which contribute to the seriousness of this trouble, but in Britain the condition is aggravated by the very rapid changes which are typical of our climate. Although Bud Drop largely occurs in the Spring, I feel we must look to the climatic conditions prevailing during the previous summer and autumn for the main cause of the trouble. A prolonged drought or excessive wet period in late summer or autumn when bud development is reaching its final stages appears to prevent the normal setting of the flower buds and when they begin to grow after a period of dormancy during the winter, they fall off. Providing the summer and autumn weather conditions are normal, severe spring frosts have little effect on bud shedding. There are of course some var-

ieties which we prone to this disorder and others which produce so many flower buds that some natural thinning is necessary and in this case the fall can be compared with the June drop of apples. Bull Heading on the other hand is not troublesome and this disorder appears to be more serious in warmer climates.

Under glass the chief pests are Scale, Mealy Bugs, Thrips, Aphids and Red Spider. The first line of defense against all these pests is good cultivation, the thorough syringing or hosing of the foliage with soft water whenever conditions permit and a regular spraying programme. Another precaution is to isolate plants and scions obtained from outside sources until they have been subjected to an intensive inspection and treatment where necessary.

Camellia Scale is perhaps the most widespread and if allowed to get established, the countless insects covering both leaves and branches seriously weaken the plant. Volck or any good white oil emulsion spray applied with force on a dull day when the temperature is not too low will usually give good results and should be repeated at fortnightly intervals as necessary. Although closely related to Scale, Mealy Bugs are a little more difficult to eradicate due to their waxy excretion. Similar methods of control are used but the application of the spray must be most thorough and forceful so as to penetrate the protective covering of the bugs.

Aphids are usually troublesome on

young growths in early Spring, but Thrips persist throughout the year and can cause severe mottling of the leaves and distortion of the flower. The latter occur chiefly on the underside of the leaves and it is therefore essential to ensure that the back of the leaf is thoroughly wetted when spraying. A nicotine-soap wash gives good results for both Aphids and Thrips, but it is important that it should contain a spreading agent.

Red Spider Mite perhaps more than any other pest welcomes poor cultivation, especially the lack of humidity and a steady temperature. When regular syringing of the foliage takes place, there is little danger of attack, but they thrive in a dry atmosphere and soon the typical light spotting of the leaves becomes apparent, followed by webs spun around the foliage. White oil emulsions give some control, but Azobenzene either as an aerocide or smoke is now largely used.

Several new products are at the moment being made available and it appears that malathion will cure all the greenhouse pests of camellias. I have mentioned very few new insecticides, for they have not been thoroughly tested on camellias in this country and many of them are in my opinion too toxic to be used by the general public. It is of course essential that all spraying operations against pests should take place in dull weather and best results are obtained

under glass when temperatures are high. I have not noticed any *japonica* or *sasanqua* variety which is more susceptible than others to damage by insecticides, but severe defoliation of *Camellia reticulata* can take place if instructions regarding the dilutions of white oil emulsions are not carefully followed.

Camellia Leaf Blotch occasionally attacks the leaves of Camellia cuttings growing under glass. It appears to occur when the leaves have been scorched, attacking only the dying cells turning them silvery white. It also occurs outdoors on a small scale in very hot weather. It is seldom serious enough to resort to a colloidal copper spray.

Variegation of flowers and foliage due to virus is less frequently observed in Britain than in America chiefly because many plants are still propagated on their own roots rather than by grafting. Self-coloured varieties do not readily produce variegated forms, in fact variegated flowers are not very popular. Chlorotic conditions of the foliage can usually be dealt with by dusting with soot.

Although several disorders are mentioned in this article, it is true to say that in Britain Camellias are attacked by fewer pests and diseases than most shrubs and that where climatic conditions are suitable their cultivation in the open calls for only slight attention to pests and diseases.

NEW REGISTRATIONS

The following new seedlings have been accepted by the Southern California Camellia Society for registration. Both were submitted by Mr. Clarence S. Hearn, 2021 Santa Anita Avenue, Arcadia, California:

'Mary Jo': A radiant, soft salmon pink bloom from 3½ to 4½ inches in size, with 33-46 petals and 80 petaloids, with petals united at the base. The blooming season is from December to April for this open, upright growth, which is sturdy and strong. The seedling is fourteen years old as of March, 1957.

'Top O' the Morn': This is an eleven year old seedling blooming from February to April, being of vigorous, compact growth. The flower has a medium pink stripe blended with red, the blooms being from 3½ to 4½ inches across, with 36 petals.

CHASING THE "CHEWERS"

By DOROTHY JONSON

Of the many thousands of insects which infest your garden, we divide them into two classifications . . . the sucking insects and the chewing insects. There are many species of both.

In the category of the "chewers," we find beetles, such as the Fuller Rose Beetle. About $\frac{1}{3}$ inch in length, grayish-brown in color and having a broad snout or beak, this beetle does tremendous damage to the foliage of Camellias.

There is also what we call the Diabrotica, the 12-spotted beetle which flies over your flower bed and gorges itself on petal structure and foliage. This is not a Lady Bug, as many people think; it's not a beneficial parasite but one of the most destructive insects you have to confront during the summer and early fall. Then, there is the Leaf Tyre, sometimes called the Measuring Worm because it measures its length over and over as it parades on your choice plants, eating the tenderest parts. There are many worms and caterpillar species.

The old-fashioned means of controlling them was with what we refer to as a "stomach poison." Arsenate of Lead is one; also Kryocide and Cryolite. These dusts or sprays spread a residue over the plants, poisonous to the insects when they fed upon them. One serious drawback to this method, however, was that the insect had to ravage the plant and spoil its beauty before being destroyed.

Many new materials have come on the market in the last few years. Some have been highly hazardous; others very helpful.

For chewing insects on your *vegetables* and *fruits*, even including the much-dreaded Tomato Worm, I re-

commend the Pyrethrin sprays and dusts because they are non-poisonous, non-toxic, and they leave no unpleasant taste following their application. They can be used right up until the time of harvest, which, by the way, is the time when you most need them.

For ornamentals, you have a variety of materials to select from. Malathion is one of the least harmful of the more powerful materials and has proven to be very popular, despite its unpleasant odor. And there is a combination of Malathion and Dieldrin, known as DUBL-DETH, which gives a "two-way" control . . . immediate kill from the Malathion content and a long-lasting repellency from the Dieldrin. None of these sprays leave any unsightly residue and, if used according to directions, will not burn the foliage.

Nature for many years has rendered much assistance against these enemies in the form of predacious insects, arch enemies to the injurious varieties. All stages of insect life, from egg to larvae, and from larvae to adult, have been subject to aggression of these beneficial factors which worked in two ways. Some devoured their prey immediately while others sucked them dry. Some of our newer insecticides have been very disastrous to these beneficial predators and, as a result, we're obliged to depend more on our spray materials for control. Therefore, it is highly important that we select materials that are safe as possible . . . safe for our plants and safe for our soil.

NEW TRIUMPH!

It is with great pleasure that we announce the formation of New Zealand's First Camellia Society. Tom Durrant is its first President.

The Camellia Review offers its sincere congratulations.

SULTANA COMES INTO ITS OWN



Edwards Metcalf (Left), Ex-President of the Southern California Camellia Society, presents the William Hertrich Award for the Camellia 'Sultana' to Mr. and Mrs. Vern O. McCaskill who receive it on behalf of their McCaskill Gardens.

The award-winning 'Sultana' is a mutation of 'Mathotiana.' It has a more brilliant color than 'Mathotiana' without the coarseness of 'Mathotiana' or that of any of its variants. Its form varies from an open semi-double to a full pœony and its long blooming season, from November to April, almost twice as long as that of its parent, gives it added distinction.



C. japonica 'Sultana'

THE SOIL MANAGEMENT ASPECT OF CAMELLIA CULTURE

O. R. LUNT

The influence of soil properties on the growth of camellias is of fundamental importance, but it is only one of several factors affecting plant growth. The growth of camellias can be amazingly rapid in soil which is properly prepared when other environmental or disease conditions are not unfavorable.

A listing of the functions a soil performs for the plant suffices to illustrate that not only are the properties of the soil important but likewise, the *management* of the soil. In general terms the soil functions as a source of (a) minerals, (b) water, (c) oxygen and (d) mechanical support for plants.

In the production of some crops the thermal properties of the soil are of considerable importance in the utilization of the soil, but this is probably seldom of importance in the case of camellias. The first three functions of the soil listed above are the ones which will be discussed here.

Nutrition:

Soils differ greatly in their capacity to supply the various minerals needed by plants. The importance of management practices is of obvious importance here. Sandy soils for example, are, with few exceptions, ineffective in retaining most of the minerals needed by plants against leaching losses. Yet by frequent fertilization camellia growth can be very satisfactory in sandy soil mixes. The elements required by plants in relatively large quantities from the soil are: nitrogen, phosphorus, potassium, calcium, magnesium and sulphur. In addition, a number of elements are required in smaller quantities: iron, manganese, zinc, copper, molybdenum, boron and for some plants at least, chlorine.

The subject of the interactions of soil and plant nutrition is too complex to treat in detail here. Some of the more important problems of managing fertility programs require consideration, however.

Although research has shown that camellias grow satisfactorily over a pH range from 8.5 to 4.5 in sand culture, extensive practical experience indicates mildly acid conditions to be desirable. The pH range from about five to six is well adapted to camellia culture.

The question of the desirability of fertilizing with micro nutrients is one which often comes up. While the micro nutrients are just as essential as the minerals required in larger quantities it is the opinion of the writer that a grower is well advised not to include micro nutrients in his fertilizer program except, perhaps, on a once-a-year basis and then in moderate quantities *unless* local experience has shown a specific problem exists. The chances are excellent that the micro nutrients exist in sufficient quantities in the soil, if the pH is in the range of about five to six, or as impurities in the fertilizers or water. Where attempts are made to grow camellias at pH values above seven the application of iron or manganese chelates (diethylene-triamine-penta acetate, referred to as DTPA) may overcome a condition of chlorosis. Where there is no known need for micro nutrients their frequent inclusion in a fertilizer program may introduce problems which would not otherwise exist.

The macro nutrients are required in substantial quantities by camellias. The soil or irrigation water may supply sufficient quantities of calcium magnesium or sulphur. This possibility should be ascertained or provision made to periodically supply these minerals. These materials may be supplied in a liquid feeding program as discussed below or supplied in dry form. Generally specific provision should be made to supply nitrogen, potassium and phos-

phorus periodically to camellias. Phosphorus does not leach readily even from sandy soils and annual applications of about one pound of single superphosphate or the equivalent per 100 square feet is usually sufficient. Camellias are very responsive to relatively high levels of nitrogen and should be fertilized eight times a year or more with this element.

During flushes of growth the camellia has a large demand for nutrients and it is at this time that deficiency symptoms are likely to appear. Although conclusive evidence is lacking on this point, it seems reasonable to believe that the plant draws heavily on mineral reserves within the plant during flushes of growth. For this reason relatively light occasional fertilization during periods when vegetative growth is at a standstill such as in the winter appear desirable. On the other hand, maintaining a high fertility level during the winter is not only unnecessary but may be harmful in some cases.

One of the most satisfactory ways of maintaining fertility levels is by liquid fertilization. The following program supplies all of the major nutrients except phosphorus which can be incorporated in the mix at the time of planting and/or supplied in dry form once a year. This program is, of course, only a suggested base from which to start and should be modified to fit a particular situation.

	<i>Ounces per 100 gallons</i>
<i>Solution No. 1</i>	
Ammonium nitrate	12
Potassium nitrate	4
Magnesium sulfate	4
<i>Solution No. 2</i>	
Calcium nitrate	20
Potassium nitrate	4

Stock solutions containing 100 times the concentration given may be prepared of either solution 1 or 2. The concentrated stock solutions cannot be mixed, however, since precipitation will occur. If stock solutions are not to be used all the ingredients may be combined in one solution at one half the concentration listed. The fertilizers used should not exceed a pound and one half per 100 gallons in the irrigation water.

In container growing the following sequence of irrigation will give satisfactory results: first irrigation use solution number 1, second irrigation use solution number 2, third irrigation use tap water, then repeat the sequence. In ground beds making use of sandy soils, the frequency of use of tap water may usually be doubled and in finer textured soils the frequency of use of tap water may usually be tripled. A soaking rain should be considered as an irrigation. During the winter months the frequency of fertilizer application should probably be cut in half. In any individual case considerable personal judgment must be used regarding the adequacy of the fertilizer program.

It is important to irrigate with sufficient water so that some leaching occurs with each irrigation otherwise harmful accumulations of soluble salts can quickly occur.

A dry fertilizer program can be equally as successful as liquid feeding. In this case nitrogen should be applied at approximately monthly intervals. The approximately maximum safe rate of application of a soluble dry fertilizer is one pound per 100 square feet. Even this rate should be watered in.

Any fertilization program is drastically influenced by the amount of water going on the planting and by the texture of the soil.

Water and air relations of soils.

As mentioned previously the soil has the function of supplying both water and oxygen to the roots of plants. Since the water and air relations of soils are intimately related they will be discussed jointly. About one half to two thirds of the volume of typical soil mixes used for camellias are filled with air when the soils are dry. As the soil is wetted the volume of air space is diminished to the extent that the percent by volume of water is increased. The critical amount of air space required in the root zone by camellias has not been determined, but it is probable that the volume of air space in the root zone should not be less than about 15 to 20 percent for more than a few hours. Through managing the frequency of irrigation much can be done to overcome low water holding capacities of soils although in extreme cases this may be very troublesome. If an established planting tends to remain waterlogged after an irrigation there is not much that can be done by way of management to correct the situation short of taking out the planting. Hence, the importance of proper soil preparation to assure good drainage prior to plantings.

Either sandy or clay soils can be amended so that camellia growth is satisfactory. Sandy soils are the most fool proof, but do require more careful attention to the fertilizer program. An ideal mix would consist of relatively fine sand and about one third by volume of peat moss, sawdust or bark fragments of similar texture. If a fine textured soil is to be used, it is advisable to create aggregates and stabilize them through the use of krilium, and include about 50 percent by volume of the organic amendment. In soils with extremely low permeability or clay or hard pans it may be necessary to provide for drainage through the use of tile. This can be obviated in most cases by making a large planting hole and amending the soil in the same way as described above. Amending the soil to a depth of 21½ feet and similar width is usually sufficient. Care should be taken so that the unamended soil gradually blends with the amended soil so that no sharp transition occurs. Gravel or other coarse amendments such as broken pottery should not be placed in the bottom of a planting hole since this *impedes* the movement of water contrary to the common belief. The organic amendments mentioned reduce the available water holding capacity of a soil except in the most sandy soils. Vermiculite is effective in increasing the water holding capacity of a soil.

When soils are placed in containers such as cans or pots they do not drain to the extent they would if the same soil were placed in a deep soil. Therefore it is doubly important to amend the soil when it is to be used in a container. The percentages of amendments listed above will probably be satisfactory provided the percentage of silt plus clay in the soil does not exceed about ten percent. Although many soils could be found containing more than 10 percent silt and clay which would drain satisfactorily in containers an increasing risk is run that drainage will be unsatisfactory. Treatment of the soil to be used in the mix with Krilium greatly reduces this hazard.

Contrary to what occurs in deep soils, the use of coarse organic amendments in containers substantially increases the water holding capacity of the mix. The total porosity of the mix is likewise increased so that air space in the soil under shallow soil conditions is also increased.

Only the highlights of some of the soil management aspects of camellia culture have been discussed here. The importance of personal judgment in dealing with these problems cannot be overemphasized.

THE AMAZING GIBBERELLINS

It would scarcely seem necessary to treat Camellias with any product that would tend to make them more unpredictable than they already are. However a new substance has appeared on the horticultural horizon whose potentialities seem so limitless that it is certain Camellia growers will be more and more prone to experiment with it.

The product referred to is, of course, Gibberellic acid.

The background of this fabulous growth stimulant substance is the story that some years ago the Japanese found that certain diseased rice plants were

outgrowing healthy ones. Scientists in studying this situation discovered that the fast growing plants were infected with a soil-borne fungus. This was called *Giberella funjikuroi*. When the culture in which this fungus was grown was applied to healthy rice plants, these plants showed such remarkable growth that the phenomenon attracted attention immediately.

In America the chemical division of Merck and Company, Incorporated, developed a crystalline potassium salt of Gibberellic Acid which stabilized the acid and which was ideally suited as a base for plant spray formulations. They gave this the trade name of Gibrel and at the present time much research is being done with it, especially from a commercial angle on vegetables and economic plants toward the goal of more rapid production. Amazing results from early experiments suggest that Gibberellic Acid in different forms may prove a vital part of horticultural production once these experiments are established.

Some of the chemical effects of Gibrel on plants include the following:

1. Stem elongation, which is perhaps the most striking response.

2. Breaking of dormancy. In some cases the requirement for a rest period is bypassed completely. Dormant buds respond to sprays of Gibrel by putting out new growth.

3. Breaking of apical dominance. Frequently, the application of Gibrel to plants having determinate growth habit forces outside shoots.

4. Induction of flowering. This is

closely related to the effects on breaking of dormancy.

5. Seed production. As a consequence of earlier flowering, earlier seed production is possible with many plant species. Seed produced from plants treated with Gibrel has behaved like normal seed.

6. Timing of application of Gibrel. With some plants, response to Gibrel may depend on the stage of plant growth. Roots of plants should be at least one-half inch in diameter as very young plants do not respond well.

Recommendations for the use of Gibrel at this time are quite limited but much experimentation is being carried on by state, federal and commercial agriculturists.

A caution is issued by the Merck Company to avoid the contact of Gibrel with any edible crops until it is proved innocuous although at this time it has not produced any signs of pharmacologic or toxicologic significance.

For camellia fans of course, Gibrel presents a challenge for the possible shortening of time for production of seedlings — for larger (especially longer stemmed camellias) and in general the heightening of anticipation—the feeling that most anything can happen — which camelliaphiles delight in.

Inasmuch as real experimenting on camellias with Gibrel is only in its infancy, this combination of gibberellin data is printed only as an introductory suggestion to Review readers

—as later on the Review will doubtless be able to publish results that are now hidden in the gibberellic future.

The Review has received permission to reprint the following article from the Spring, 1957 issue of *Lasca Leaves*, publication of the Los Angeles State and County Arboretum situated in Arcadia, California. This will give a graphic idea of how Gibrel can be used.

Horticultural Research Notes on Gibberellic Acid

W. S. Stewart and F. T. Ching

Gibberellic acid, a relatively new chemical in the field of plant hormones, is now readily available for research and horticultural uses and is being widely advertised. One company is selling the crystalline potassium salt of gibberellic acid under the trademark of "Gibrel". In general it has the effect of causing elongation of plant cells and when applied as a foliage spray it frequently induces the stems to grow longer. This re-



FIG. 1. Tomato seedlings sprayed on October 26, 1956 at 10 A.M. (left) or 3 P.M. (center) with 25 ppm gibberellic acid. Nonsprayed plant at right. Average height November 5, was 24 cm., 27 cm., and 14 cm., respectively. The differences were statistically significant at 5%.

sponse may have numerous horticultural and agricultural applications when it is desired to obtain taller plants faster (1).

Another response induced in some plants by gibberellic acid is an acceleration of flowering and breaking dormancy. Lettuce, a biennial which requires a cold winter before flowering, will flower without the cold treatment when sprayed with gibberellic acid (2, 4). *Hyoscyamus*, another plant which requires a winter dormant period prior to flowering, has flowered in response to gibberellic acid applications without the dormancy (3).

In view of the wide popular interest in gibberellic acid results obtained from experiments at the Los Angeles State and County Arboretum during the past eight months are presented here in the form of a brief progress report.

In these experiments gibberellic acid was applied either as a drenching foliage spray or in lanolin as a narrow ring about 3 mm ($\frac{1}{8}$ inch) wide around an elongating stem.

The first series of experiments, initiated in September, 1956, were with greenhouse grown tomato seedlings var. *ponderosa* (Ferry Morse selection) about 15 cm (6 inches) in height at the time of treatment. The expected stem elongation resulted from both the lanolin ring applied around the stem at the cotyledonary node and the foliage spray. An unexpected difference was found between sprays applied at 10 A.M. or 3 P.M., the latter inducing a statistically significantly greater elongation than the 10 A.M. spray. This difference may be due to a physiological difference within the plant at these hours of observation. However, it could be due to some other factor, for example, relative humidity, which only influences the penetration of gibberellic acid into the plant. The

experiment should be repeated to confirm these results.

The second test plants used were *Eranthemum atropurpureum* seedlings grown in the greenhouse. An application of lanolin paste containing 25 parts per million (abbreviated "ppm") gibberellic acid was made on September 17, 1956, at the uppermost node. Subsequent measurements showed that, as expected, both the internode above and below the treated node grew significantly longer than those on the untreated stem.

The third series of test plants were greenhouse grown seedlings of *Carica papaya* var. *solo*. On October 26, 1956, when the seedlings were 15 cm (6 inches) in height, gibberellic acid was applied either as a foliage spray or in lanolin as a ring around the stem about 5 cm (2 inches) above the ground level. The spray induced the expected stem elongation. The lanolin ring application, however, failed to induce elongation but instead caused the stem to grow in thickness at the site of application. This experiment was repeated with similar results. A ring of pure lanolin (no gibberellic acid) failed to induce stem thickening. In both experiments the increase in stem diameter compared with nontreated stems was statistically significant. Microscopic observation showed that apparently all stem tissues had been increased in thickness in the same proportions as in the non-treated stem. Further studies should be made to determine if cell size or cell number was increased by the treatment.

A fourth series of tests was initiated to determine the effect of spray applications of gibberellic acid on young grape clusters, at the suggestion of Mr. Gwynn Wilson, of Coachella Valley, California. The object was to determine if the fruit stems could be induced to elongate sufficiently to avoid the necessity of cluster thin-

ning. In cooperation with Mr. Wilson and Mr. Dean Halsey, University of California, Riverside County Farm Advisor, experiments were initiated in Coachella Valley on March 7, 1957, using both Thompson Seedless and Perlette grapes. Though not yet harvested it appears as though strikingly favorable results are being obtained.

The fifth series of horticultural experiments with gibberellic acid was to determine its effect on the stem of pansy flowers when applied as a foliage spray. Pansy varieties "Pay Dirt" (yellow) and "Sea Blue" were sprayed with a 100 ppm solution of gibberellic acid on March 18, 1957. Measurements on March 28, 1957, showed a statistically significant increase in flower stem length of 46%.

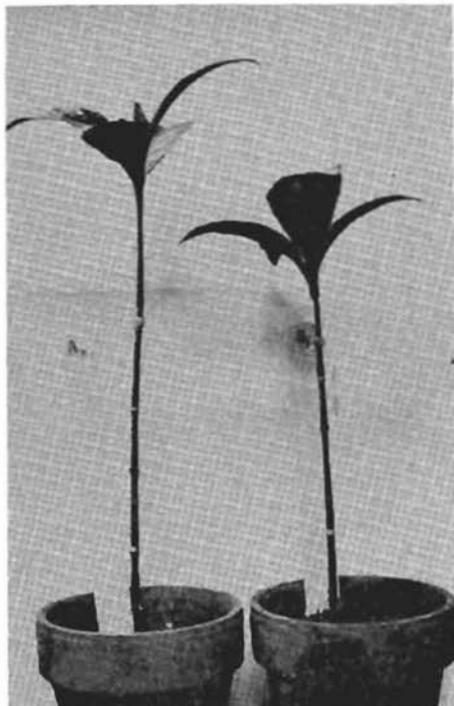


FIG. B. Rooted cuttings of *Eranthemum atropurpureum* treated September 17, 1956 at the uppermost node with: left, a ring of lanolin containing 25 ppm gibberellic acid; right, lanolin only. Photographed November 6, 1956.

In the sixth series of tests acceleration of germination of seeds of *Gilia capitata chamissonis*, a native California annual, was observed after soaking them in 100 ppm gibberellic acid solution.¹ The germination was 32% for the treated seeds compared to 2% for the nontreated. This difference was statistically significant.

These examples of various and assorted growth responses to gibberellic acid show the wide range of horticultural applications gibberellic acid can have in horticulture.

¹This work is a portion of the "Flower Carpet" research project supported by a grant from the Longwood Foundation. The seed was graciously supplied by the Rancho Santa Ana Botanic Garden.

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* * * *

The propagator at Descanso Gardens has been experimenting with the acid on camellias for the past year and gives the following interesting report:

The Gibberellic Miracle Drug Applied to Camellias

By JOHN R. SOBECK

Right now, horticulturists and botanists all over the world are enthusiastically working with Gibberellic Acid.

I have found the drug very interesting in my work with Camellias — producing some pleasant surprises and a lot of satisfaction. I feel especially indebted to Mr. Frank Stodola of the U.S. Department of Agri-

culture Experimental Station for helping me.

In my experiments I used a mixture of Gibberellin A and Gibberellic Acid (a7-74°) about 100 mg. to one quart of water; also a 1% mixture of Gibberellin Lanolin paste for woody plants.

I used two methods of applications. One was by atomizer spray or by using a medicine dropper. If the effect of spray of low concentration wore off, I obtained an additional response by repeating the application. The second method which has a somewhat slower reaction was the Lanolin paste method. This consisted of cutting out a strip of bark about one and a half inches long below the cambium layer and applying the paste.

The plant stems elongated at a rapid rate and leaves became lighter in color after six weeks of application every other day.

Gibberellic Acid sometimes makes interesting variations in the flowering of the plants. In some it advanced the flowers, in other the flowering was retarded. The effects seem like those induced by nature with its winter chilling and changes in the length of day.

Within a month after treatment, some of my plants grew from one and a half to three times taller than the untreated plants.

Another interesting thing is that Gibberellic Acid reverses dwarfism. Applied to plants which are dwarf because of a gene mutation, they grow taller. An example of this was some tuberous begonias which I treated and which proceeded to grow up as high as three feet.

I first rooted my tuberous Begonias in peat moss and then transplanted them in pots. When established, they were treated every two days with two drops of the acid to the growing tip. Six weeks after treatment they showed 16 inches of growth while un-

treated plants measured only six inches.

Gibberellic Acid affects flowering, bud growth, fruit set and development. There is a cell multiplication as well as cell elongation. I have been trying to find out how it works on the chromosomes which are found in association with inheritable characteristics, especially the color of the flower. I am now waiting to see the effect of my combining Colchicine with Gibberellic Acid. Colchicine is known to split and double chromosomes but will set the treated plant back for many months.

For further experimentation I soaked scions of *C. japonica* and *reticulata* in the solution for 24 hours and then grafted on good understock. Within three weeks, scion and stock callused over heavily and growth

exceeded the untreated Camellias. A sensational development occurred in the case of the *C. reticulata* 'Captain Rawes.' This is supposed to be sterile. Although the pollen is fertile it has never set seed. I carefully emasculated the flowers and then sprayed with Gibberellic Acid solution four times in eight hours. After the last spray, while still wet, pollen of the Chinese *reticulata* was applied to the stigma of the pistil. Four weeks later, capsules started to form and swell. They are now the size of a large cherry and it will be very interesting to see what further development will take place.

To anyone interested in trying new techniques in the application of Gibberellins, I recommend it highly for it is certainly full of surprise and adventure.

CONTROL OF SCALE ON CAMELIAS

By HARVEY F. SHORT

Up to date control on many of our garden pests seems to be efficiently and simply handled by the use of Malathion.

This insecticide used at proper intervals can be relied on to minimize the various scales, thrip and aphids to a point where plant material can prosper without the usual shock or burn that sometimes follows the use of oil sprays.

The 50% wettable applied at the rate of one teaspoonful to one gallon of water in your sprayer will do the trick without risk to you or your Camellia plants.

To persons unable to work with Malathion (due to allergies or other causes) you can use a standard spray such as Volck or Ortho — being sure

to follow the directions on the package.

Normally, spraying is effective in the months of September and October when humidity is not lacking and temperatures are not running higher than 85°. Keep your plants well watered prior to and after treatment.

Spraying once a year for scale for outside plants is normally sufficient though perhaps in the springtime when thrip or aphids are very active, you may have to spray another time. In the greenhouse, it is common practice to spray monthly.

Malathion is sold under many trade names — the difference being the percentage of Malathion in combination with some inert substance. The importance of following the directions on the container cannot be over emphasized.

CAMELLIA MITE

By D. E. JACKSON

Although the number of insect species to which the Camellia is host is small — scales, aphids, leaf-eating bugs and latterly, the “leaf-cutting bee” it is relatively easy to control them, even though the plant be heavily infested, by use of White Oil Emulsion (scale), Nicotine Sulphate, B.H.C.s (aphids), Arsenate of Lead, D.D.D. (grubs and “leaf-cutting bees”) and Chlordane (soil infesting beetles).

Such is not the case with the Camellia Mite; it is proving quite difficult to completely control.

“Wee beasties” in every sense, the mite has been observed in New South Wales for from eight to ten years and in Victoria for at least six years, but it is only in the last four years that the mite population and areas of infestation have markedly increased. Can it be that the use of “kill-all” insecticides such as D.D.T. and Parathion has drastically reduced the number of predators which normally kept the mite at bay? This theory finds support in the fact that “lady birds” have almost vanished and the humble “lady bird” included in its diet eggs of the Camellia mite. It is also thought that a minute wasp, also easily exterminated by “kill-all” materials, helped to control the non-spread of mite.

Unfortunately, there is no selective insecticide which will kill pests but not the predators of pests, so these notes are offered to the grower who is experiencing a heavy mite attack on his Camellias.

Two of the large family of mites (ERIOPHYDAE) have been found on Camellias in Australia. The purple mite and the orange mite. The former occurs more frequently but both are sometimes found on the same leaf.

They are microscopically small and individuals cannot be distinguished by the naked eye. Observed through a microscope, the adults appear as soft-bodied oval insects either purple or orange in color. They feed by rasping the surface of the leaf and then sucking the liberated juices. The grey-

ish white, dust-like debris they deposit on the leaf is usually the first sign of the presence of mite. Up to 100 eggs can be laid by an adult female and are to be found on both surfaces of the leaf. In warm weather, these eggs hatch in from eight to ten days and the nymphs become adults in approximately ten days. It is, therefore, understandable why infestation becomes acute in but a short time.

During the cold winter months eggs can remain unhatched on leaves (on the tree or on leaves which have fallen) until warm conditions arrive. In September (in Sydney), the tell-tale “dust” on leaf surfaces warns of attack, and if suitable action is taken at this time, considerable time and labor is saved.

To reiterate — mites are microscopically small and therefore, cannot be seen by the naked eye. The first sign of infestation is the fine dust-like debris on either or both leaf surfaces. Then the underside of the leaf soon becomes tinged purplish-brown, whilst shortly the margins of the leaf become mottled, the entire leaf may then become tan or light yellow in colour or possibly have a slate-coloured cast. Very young leaves usually curl upwards, having a boatlike form. There is usually a very heavy partial defoliation the entire tree appearing thin and sparsely furnished and correct growth is stunted. There is ample evidence that these fallen leaves can start the cycle again, so these should

be collected and burned.

It is very unlikely that even a very severe infestation of mite can kill an established tree, for the plant is never completely defoliated.

Control

With some degree of success, various insecticides have been used to combat mite. Wettable Sulphur gives fair control and appears not to have detrimental effects on predators. Being easily washed off by rain, it is not the answer to mite in plague or near plague proportions. If infestation is but light, wettable sulphur (Cosan), if used during a long spell of fine, warm weather, will be found to be quite effective.

E.605 (Folidol), Hexone, B.H.C. and Malathion will kill a great number of mites, but owing to the practically impossibility of bringing these materials into direct contact with every individual mite, some will survive.

Promising results have been obtained by using Systox. It not only has an immediate and long lasting effect on mite, but being systemic, remains in the sap of the treated plant long enough to kill those mites which, at the time of applying, were still eggs. It can either be used as a foliage spray (0.25% active ingredient) or as a drench in the immediate "root range" of the plant. Both methods can be used at the one time. Systox should be applied when the tree is actively growing so that maximum distribution of the material throughout the entire sap stream is effected. Systox has two defects, however: it is very toxic to humans — great care must be exercised in handling — and if used as a drench it will kill worms and beneficial micro-organisms in the soil.

Ovacides (egg-destroyers) have been tested, but have not proved sufficiently effective against large infestations to warrant their use as major weapons in the battle.

CAMELLIA MISCELLANY

The Peer Cup

In 1956 the Royal Horticultural Society of London established what is known as "The Peer Cup," to be awarded at their annual Camellia Show "for the most meritorious exhibit in the competitive classes."

In 1956 this was awarded to the Misses Godman of South Lodge, Horscham, "for a fine pot plant of 'C. 'Donation,' three feet high and trained ingeniously on a framework."

At the Show held April 12, 1957, this trophy was awarded to the Exbury Estate, which is located near Southampton. This was given for a display of "six very nice matched japonicas."

* * * *

Descanso Gardens Announcement

A seedling of unknown parentage developing from a seed planted in 1948 is demanding attention and has been named 'Descanso Blush.' Since 1950 it has grown in a northwest exposure where it gets all the afternoon sun and very little water.

The color is of a delicate blush pink over white. The flowers average three and one-half inches across and are of loose peony form. They bloom from December to March. The bush is very compact with small leaves, making it a wonderful subject for pot culture.

The battle against this pest and the search for an effective control, non-hazardous to the user, goes on. Two new materials, Chlorobenzilate and FW. 293 show promise, and the time is not far distant when the fight against the mite will be won.

Reprinted from the Camellia Annual of the Australian and New Zealand Camellia Research Society, December 1956. Applications for Membership may be made through the General Secretary, E. G. Waterhouse, 17 McIntosh Street, Gordon, New South Wales.

FUNGUS AND CAMELLIA POLLEN

By DR. WALTER C. HAVA

Camellia growers living in areas that border the shores of the Gulf of Mexico usually have winters that are very mild, very damp and very foggy, the kind of fog that we are wont to say we can cut with a knife. While these fogs supply our Camellias with ample water, the humidity that they produce brings on other troubles. It may be that some of you living in areas along the coast of Southern California have climatic conditions similar to ours and may be interested in what I have to report.

Moderate temperatures and dampness are ideal conditions for the growth of some fungi and Camellias having many pollen-laden stamens, seem to be very attractive to these organisms. All types of flowers having many stamens are blemished by these fungus infestations growing on the pollen. 'Frank Gibson,' 'White Empress,' 'R. L. Wheeler,' and the like are damaged the same day they open; the anthers turning gray, then brown and finally black. While these weather conditions exist, we find it necessary to cut the flowers early on the day they open, and store them in the refrigerator until used.

I have been experimenting with different fungicides in an effort to prevent this damage. The difficulty is, to find a preparation that will not stain the flower. By treating the anthers with a Myocide or Fungicide, we were able this year, on two occasions, to win the tri-color, the ACS Gold Certificate and silver tray at Camellia shows. Many of the specimen Camellias entered had their anthers badly discolored by fungus growth,

while our treated flowers had nice, fresh looking yellow anthers. Naturally, ours took blue ribbons.

The fungi that attract Camellia pollen must belong to the cool weather class. The sclerotia that produce Camellia flower blight and Azalea petal blight are also cool weather fungi. I have seen Azaleas with perfect blooms in colder weather become badly infected in two days when the weather became warmer and damp. For Azalea petal blight I use Parzate (Zineb), a zinc preparation. I tried this for fungus infestation, or rather to prevent the infestation, and it worked fairly well. Next Camellia season I am going to try using some of the food preservatives.

I have begun to wonder if it would not be wise for us to avoid Camellias with so many stamens.

Ed. note: Do some of our readers that live in coastal areas agree with Dr. Hava and do you choose among the lesser-stamened varieties to avoid the fungi as the Doctor suggests? The Review would like to hear your views on the subject.

California Redwood Plant Tubs

There is more fun in gardening—better results, too, when you can control the soil, shade and water conditions. Doubling in duty and decoration.

Octagonal tubs from 12 to 24 inches—Square tubs from 8 to 18 inches. Designed and made especially for camellias and azaleas.

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AND NOW, NEW ZEALAND

By TOM DURRANT

Far away across the Pacific Ocean, in the Southern Hemisphere and in a similar latitude to California, lies the Dominion of New Zealand. Its own flora, developed in almost complete isolation, is beautiful and unique. Perhaps it was nostalgia on the part of its early settlers which resulted, as in America, in bringing to the new country many of the familiar, friendly plants and trees of their homeland. The Camellia came early to New Zealand and was often planted around farm homesteads as the land was settled. Its popularity suffered the same eclipse here as elsewhere but some fine veteran trees still survive, though many have fallen victims to development. Today, with interest in gardening at an all time high, the camellia is coming back into its own and there are already several quite extensive private collections of new varieties. Captain Rawes *Reticulata* is one of the most sought after and most expensive items in the nursery trade, which is unable to meet the ever increasing demand for it.

Due to the zeal and interest of that well known, persuasive, international camellia ambassador, Ralph S. Peer, the Southern California Camellia Society is playing its part in the revival of interest which is taking place. In the period from November up to the end of April, 22 new members have been secured and more join every month. Since our flowering period starts just as yours ends, we hope to obtain many more new members as camellia interest is stimulated by the lovely flowers that will be seen. Among our present SCCS members are the owner of New Zealand's most important collection of exotic trees; an eminent soil scientist who has successfully crossed *reticulata* (Captain Rawes) and *saluenensis*; the Mayor of a famous geo-thermal holiday resort, who is a radio gardening expert in his spare time; and the Superintendent of some celebrated national Gardens which are visited by many thousands of tourists each year.

There are wide variations in the

New Zealand climate. It is almost subtropical and frost free in the North but, in central and southern districts of the South Island, winters are quite severe with snow occurring occasionally at low levels. This variation has some significance in considering pests and diseases as humidity and mean temperatures vary with district and latitude. Generally, camellias do not suffer serious attack and completely neglected trees have grown to great size with abundant flowers. So far as I know, the dreaded flower blight does not occur here, for which we must be devoutly thankful. Die back can be seen occasionally but whether it is caused by the same organisms as in the States, has probably not been investigated. Plants in shady situations will collect moss and lichens, particularly in high rainfall areas but these are easily controlled by spraying with Bordeaux or equivalent copper sprays such as 'Copperox,' 'Cuprox,' etc. When spraying camellias the recommended strengths for citrus trees are suitable but care must be taken to avoid spraying fresh, new growth, particularly with oil sprays.

Corky outgrowth, or leaf scurf, occurs on the leaves of plants exposed to strong sunlight and is sometimes confused with scale infestation. The complete absence of stickiness or black smut makes leaf scurf quite easy to identify, particularly as it forms in irregular shapes. It is apparently harmless and does not affect the vigour of plants or the beauty of flowers.

Camellias sometimes suffer scale

infestation, particularly in milder districts where they are grown in association with citrus trees and other scale hosts. General attention to garden hygiene, centre pruning of dense bushes and routine, spring and autumn spraying with white oil of ALL plants known to carry scale (hedges are often overlooked) seems to deal effectively with this pest, which with us has never been a serious problem.

Leaf damage can be caused by a variety of insects. Cicadas, crickets, grasshoppers, leaf hoppers, leaf cutting bees, caterpillars and aphids are all partial to a nice bit of new camellia leaf but can be defeated with Lindane or D.D.T. In using D.D.T. on camellias it is MOST IMPORTANT to use the micronised powder form (such as Pespruf 50) and NOT any of the emulsions or solutions sold for garden or other purposes. Camellia plant damage, previously attributed to D.D.T., has been proved to have been caused by the kerosene and other liquids used as carriers. Pespruf 50 mixes readily with water and stays in suspension quite long enough for ordinary spraying.

Attacks by citrus leaf roller caterpillars occur in late summer and autumn and can cause serious damage, particularly to young growth. This insect is well known to most N.Z. gardeners and is easily identified from its habit of sticking two leaves together and feeding on the inner surfaces with most unsightly results. While arsenate of lead and other poison sprays give some measure of control, it is impossible to spray often enough fully to protect the constantly occurring new growth which is attacked before the leaves unfold. During our evening walk round the garden the combination of a sharp eye and a ready finger and thumb saves a lot of damage to grafts

and other valuable plants. There is a small dividend paid by the leaf roller in the form of the gay, unafraid, little bird, the New Zealand White Eye, which finds it a tasty morsel. A tiny ring of white feathers round each eye gives the bird a look of rather incredulous surprise and it is a sheer delight to see a small flock of them darting about in acrobatic style in the camellia borders.

New Zealand has its own special pest in the form of a small, dusk flying beetle (*Costelytra zealandica*) which emerges from the ground in November and occasionally occurs in such enormous numbers as to completely strip any plant or tree upon which they settle. While deciduous trees suffer more severely than evergreens, camellias and, in particular, *reticulatas* are some times attacked disastrously. Spraying the whole garden with D.D.T. (Pespruf 50) seems to give some control and should be repeated weekly or after heavy rain. In districts where severe attacks are occurring, spraying at dusk while the beetles are actually in flight may be necessary. Immediately darkness has fallen, an inspection may show beetles at work in spite of all precautions. These can be shaken off and the spray residues on the ground will prevent them from putting in an appearance the next night.

The warmest greetings from the New Zealand members of SCCS.

THE DOCTOR TAKES OVER

Dr. Cecil Eshelman of Sherman Oaks, California has been recently elected President of the Los Angeles Camellia Council. Read "all about it" in the October Review.

FOR SALE

The Secretary of the Society has the following books for sale:

Our own book, "The Camellia, Its Culture and Nomenclature," a 1956 revision. \$1.50 or \$.90 each in lots of not less than 12.

"Camellias in the Huntington Gardens," by William Hertrich. Vol. I and II, \$10.00 each.

"Old Camellia Varieties," a list with brief descriptions compiled at the request of the Council of the Royal Horticultural Society of the R.H.S. and the British Museum, by A. I. Ellis. A 374 page, 9x11 book. Reprinted by permission by Mr. Ralph Peer. \$5.00.

"Flower Arrangements of the Ohara School" the 1952 edition. Printed in English in Japan in folder form this book has six pages of descriptive matter and twenty-four colored prints in the Japanese manner. \$4.60, from \$10.00 to \$12.00 in bookstores.

"Camellias, Kinds and Culture," by H. Harold Hume. \$6.00.

"Camellias in America, 1955," by H. Harold Hume. \$25.50.

Rare Species and Hybrids issue of the Camellia Review. 75¢ postpaid.

Sasanqua issue of the Camellia Review, 75c postpaid. 57c in orders of 25 or more.

"Two Cats and Forty Camellias," a 136 page story form about the growing of Camellias mixed up with cats and cooking by our own member Elizabeth Councilman of Councilman Acres. \$3.00.

"Camellia Varieties in Japan," edited by Eikichi Satomi, 40¢.

All prices mail and tax prepaid when payment is received with order, otherwise these charges will be added.

ACS TO HOLD MEETING IN NEW ORLEANS

Tentative Schedule

Thursday, January 30, 1958

A.M.—Registration, Lobby, Hotel Roosevelt — \$20.00.

P.M.—Afternoon at the Races — Special A.C.S. Purse to be offered to winning horse. Get together Cocktail Party — Hotel Roosevelt.

Night—Forum on Camellias.

* * *

Friday, January 31, 1958

A.M.—Sightseeing by bus in and around the City of New Orleans. Lunch — At the New Orleans Garden Society Clubhouse as their guests.

P.M.—Mississippi River Trip on the steamer President — 2½ hour trip up and down the river.

Night—Open.

* * *

Saturday, February 1, 1958

A.M.—Walking tour of the Vieux Carre — a chance to see Old New Orleans at close range.

P.M.—Visit to the Camellia Show sponsored by the Men's Camellia Club of New Orleans.

Night—Cocktail Party at the Hotel Roosevelt.

American Camellia Society Banquet at the Hotel Roosevelt.

* * *

Sunday, February 2, 1958

Revisit to the Camellia Show.

* * *

More information about the New Orleans meeting will be published in the October Review.

BEGIN AT THE BOTTOM

By CHARLOTTE HOAK

Nutrition is much in the limelight these days with menus on slimming written in "caps" both in our national household magazines and in our Sunday editions.

Nutrition for plants begins with the soil but does not end there. The welfare of your plants and the vigor with which they grow depends upon how you renew this top soil which is Mother Nature's great pantry. There is a growing feeling that organic foods are best. We have so far found them the best for camellias and their companion plants.

I am offering you some excerpts from a recent letter written me by Dr. N. R. Dhar who is the Director of the Sheila Dhar Institute of Soil Science, University of Allahabad, India. He is one of the most eminent of our authorities on soil and he is deeply concerned with the treatment of alkali soils such as we have in our Southwest.

Dr. Dhar says, quote:

Humus nitrogen including 5 millions tons of nitrogen believed to be fixed by legumes is the chief nitrogen source of the world food production. There is no doubt that for producing 1000 million tons of food materials harvested in the whole world, no less than 100 million tons of fixed nitrogen are needed.

We have developed a cheap and easily workable method of land improvement based on the fixation of atmospheric nitrogen by decaying organic matter aided by phosphates. Our method of fixing atmospheric nitrogen by organic matter and phosphates is much more efficient than the industrial methods and is as effective as that by legumes. We are convinced from our experiments that a mixture of phosphates and organic matter is extremely useful for permanent agriculture as this mixture fixes atmospheric nitrogen copiously and supplies available nitrogen, available phosphate, potash and trace elements. Moreover, from a large number of experiments we have come to the con-

clusion that calcium phosphate markedly decreases the washing away of lime from soils. Hence it appears that phosphatic fertilizers should always be reinforced by organic matter.

Our conclusion is that the mixture of organic substances like farmyard manure, straw, leaves, peat, lignite, grass and calcium phosphate, or basic slag, when added to soils, can build up soil fertility permanently by decreasing acidity and fixing atmospheric nitrogen and supplying available N.P.K. and trace elements and decreasing the leaching of lime.

Man has used organic matter or phosphate for land improvement separately. I am insisting however that the two together are more valuable in permanent agriculture than either organic matter or phosphate alone. Hence, dung or straw or legumes in green manuring should always be incorporated with bone or powdered phosphate rock or basic slag or superphosphate. Also in composting all plant materials without nitrogen or potash, the addition of calcium phosphate fixes atmospheric nitrogen and improves the quality of the compost. End quote.

For the home gardener Dr. Dhar suggests using the calcium phosphate in regular composting and I have followed his advice in a series of experiments. In my compost bin, 4' x 6' x 6' I have added a sprinkling of calcium phosphate upon each layer of compost. This I use instead of calcium carbonate (ordinary agricultural lime) as is necessary in composting in the eastern part of the

(Continued on Page 35)

NEWS, NOTES AND NOTICES

Show Dates Announced

The third annual Camellia Show of the combined societies of Southern California, namely, the Society of Southern California, Temple City, Pacific Society of Glendale, Orange County and Los Angeles, will be again sponsored by the Los Angeles Camellia Council and held in Descanso Gardens. Dates scheduled are March 1st and 2nd for the Cut Flower show and March 8th and 9th for Flower Arrangements.

The Men's Camellia Club of Shreveport, Louisiana has chosen February 22 and 23, 1958 as the dates for their annual Camellia Show.

The Men's Camellia Club of Charlotte, North Carolina will hold its Camellia Show on Saturday and Sunday, March 8 and 9, 1958.

Temple City

New officers for the year are as follows: Ernest Pieri, President; Kemp Barley, Vice President; Guy A. Nicolls, Treasurer and Mae Franklin, Secretary.

The Society is already looking forward to its Annual Breakfast which will be held this year on Sunday, October 6th at the usual place, Les Marshall's Camellia Nursery, 6747 North Rosemead Blvd., San Gabriel. All camellia fans within commuting distance should mark this date with a star and begin saving up a dollar as this breakfast has come to mean the beginning of the Camellia Season for this part of the camellia World.

Pomona Valley

The new officers of the Pomona Society are as follows: Mack W. Dinwiddie, President, 786 Altura Court, Pomona; D. L. Shattuck, Vice President, 824 W. 20th Street, Upland; and Mrs. James H. Bell, Secretary, 3829 North Garey Avenue, La Verne.

The Society mourns the loss of Mrs. Laura Whitehead who was one of the founders of the Society and had never missed a meeting.

Orange County Society

New officers for the coming season are: Mr. Paul McClelland, President; Mr. William McGrath, Vice President; Mrs. George T. Butler, Secretary; and Mr. Warren Woody, Treasurer. The Board of Directors include Mr. F. E. Kahen, Mr. Roy Potter, Mr. Thomas Zuck, while of course Mr. Woody and Mrs. Butler were retained in office.

The Orange County Society has lately become the newest member of the Los Angeles Camellia Council. Reg Ragland is the official delegate. This means of course that the Society will be a part of the Joint Camellia Show to be held in Descanso Gardens.

Potomac Valley

The Society's Fourth Annual Show will be held on Saturday and Sunday, April 12 and 13, 1958. This is for the outdoor blooms only. Consideration is still being given to the date for the Society's show for blooms under glass. However, it probably will again be in early March as it was this year.

San Diego

Willis H. Miller, 4366 Altamirano Way, San Diego, was re-elected President for the 1957-58 season. Other officers are W. L. Gibson, 3765 Pio Pico, Vice President; Mr. A. Erlandson of 2530 Albatross Street, Treasurer; and Mr. Wm. T. DeFrance, 4315 53rd Street, Secretary. Directors of the Society include Mr. Lester Goodall, Edwin Greenleaf and Mrs. Althea Hebert.

Camelliana

**The National Horticultural
Magazine,
1600 Bladensburg Road
Washington 2, D.C.**

We suggest that all our readers beg, borrow or send for the April 1957 issue of the above magazine and read the outstanding article "Camellias in the Descanso Gardens" by John Threlkeld and Mark Anthony, Superintendent and Assistant Superintendent, respectively, of the Descanso Gardens. These gardens are located in La Canada, a residential area adjoining Pasadena and their beauty excites the continuous admiration of Southern California while being the Mecca for out of town visitors. Although they contain many, many diverse and wonderful features, camellias alone form the subject for the article, and although it runs 32 pages in length, the subject is by no means exhausted, there being some 48,000 camellia plants at Descanso.

The two authors have worked with camellias and been camellia enthusiasts for many years. From this vantage point they present the overall picture of past, present and future of camellias in general, touching on many phases of camellia culture that will be rewarding reading to the average camellia grower even though much of what is said is slanted to experiences with Descanso camellias. Helpful suggestions of irrigation, fertilization and remedial practices for discouraging chewing insects are only a few of the items discussed. The lists of camellias broken down in different categories as tabulated from Descanso data will also be helpful and of interest to any camelliaphile. Illustrations give a glimpse of restful beauty of the gardens.

In fact, throughout the long article whose diversity of subject matter

makes it intensely readable, the authors show not only their camellia knowledge but their sincere enthusiasm for our wonderful plant. Epitomizing this is the paragraph that ends the article, quote:

"Indeed, it may be said that even a celestial garden would not be complete without the stately camellia."

**"The Camellia"
Leslie Urquhart Press
Plaw Hatch Hall, Sharpthorne,
Sussex**

The word "book" is strangely non-descriptive. A little paper-backed novel is called a book and "The Camellia" is also a book, but with that nomenclature the similarity ends. For "The Camellia" is a BOOK.

To begin with it measures thirteen and a quarter inches by eighteen and one-half inches, and its dignified green cover with title in rich gold letters is jacketed with a stunning reproduction of 'Hana-Fuki' in gorgeous color. In short a Book that, just by its appearance, invites an irresistible desire to peruse its contents, and satisfying this desire is a very happy experience.

Edited by Beryl Leslie Urquhart, twenty camellia varieties are chosen for description and full page reproduction in color; three from paintings by Raymond Booth and seventeen from paintings by Paul Jones. The coloring is superb and result, it is reported, from eight color plates instead of the usual four.

The foreword states Mrs. Urquhart's purpose. This is the initial volume of a series on the Camellia, "to make available to persons of moderate means, flower books of artistic merit and literary interest with a dominant emphasis on accuracy both in text and illustrations." The editor also hopes to "contribute to the effort now being made to bring some order into the existing confusion in camellia names and synonyms."

Several pages are devoted to an

OUR COVER FLOWER

The much admired hybrid 'Donation' was first raised at Borde Hill by the late Col. Stevenson Clark who pollinated *C. saluenensis* with the pollen of *C. japonica* 'Doncklari.'

The magnificent flower is semi-double in form, 4 to 5 inches across. The rounded petals are entirely or slightly notched at the tips and are of a pleasing, soft rose color.

Major George H. Johnstone relates that on one occasion when his 'Donation' plants were in full bloom (several being 6 to 7 feet in height), he observed his guest, Judge C. P. Rafell, repeatedly taking off his hat and putting it back on his head in sincere tribute to this display of camellia charm.

Our cover picture is reproduced from a water color by Paul Jones of which the original is part of the collection of Charles Wainman, Esq. The color plates were loaned by the Royal Horticultural Society of Great Britain.

interesting resume of camellia history compiled, of course, from authentic sources. Ralph Peer contributes an article on Camellias in the United States while Walter G. Hazlewood writes of the introduction of the camellia into Australia.

The list of camellias illustrated begins with *Camellia sinensis* because of its enormous contribution to the world from an economic, political and life-enriching standpoint. The entire choice of varieties is interesting because it includes varieties not too well known and which are certainly not common in propagation, at least in the Southern California area. 'Satanella,' for instance, a variety which has been established for over a hun-

dred years in Italian records. The color plate shows it to be a very noble blood red flower of peony form. It won an Award of Merit from RHS in 1956. Another unusual variety pictured is the *japonica* 'Augusto L. Gouveia Pinto,' a large formal double whose color of "bright carmine passes through intermediate shades to pure lilac purple in the other petals." It is thus pictured but the notes state that the lavender tones are distinct when the flower grows in the open in Portugal but the lilac often disappears, leaving only coral pink hues when the plant is propagated in the greenhouse.

Another uncommon variety pictured is the *japonica* 'D. Herzilia de Freitas Magalhaes,' which is an incomplete double whose colour of bright crimson shades off to deep pansy violet. This is a Portuguese seedling.

These unusual varieties lend fascination to the book, spicing the old beloved favorites such as 'Elegans,' 'Magnoliaeflora,' and 'Adolphe Audusson.' Descriptions are by various well known experts of the camellia world including Francis Hanger, Prof. E. G. Waterhouse and John L. Russell.

With such intriguing diversity of authors and material, such pleasing format and such exquisite color representations, we do indeed call "The Camellia" a BOOK.

The Review will publish information of means of obtaining copies as soon as this information is available.

NEWS ITEM

Harvey F. Short, former Production Manager at Coolidge Gardens is now placed as Horticulturist at the Huntington Botanical Gardens of San Marino, California.

PREVENTING THE CAUSE

By DAVID I. GILFILLAN

The camellia today has become one of the top favorite ornamentals, not only with the horticulturist but with all home gardeners. This is as it should be. No other shrub will contribute more in the way of practical garden ornamentation than this winter- and spring-blooming favorite.

While the camellia is quite resistant to many of the insects and diseases that do so much damage to other plants, shrubs and trees, the shrub can suffer and be damaged quite severely unless steps are taken to prevent the causes of such damage.

I am convinced that the greatest cause of failure in the culture of camellias can be traced to unsatisfactory soil conditions, and we who are privileged to write and lecture on horticultural subjects carry a tremendous responsibility in bringing this important truth to the home gardener or the beginner in the field of horticulture.

The importance of proper soil conditioning before planting cannot be over-emphasized. Like all other shrubs and trees, the camellia, once planted, becomes a permanent feature in the garden. Once it is planted it is there to stay. This makes pre-preparation all the more important.

With our soils throughout this entire area definitely on the alkaline side, our first responsibility is correcting this condition. Camellias will not thrive in a soil that is high in alkalinity.

There are many products that can be used to counteract this alkalinity. I have had excellent results using the Bandini Planting Mix. This is a composted leaf mold and peat moss. Used one part mix to two parts soil and one part silt, you can grow prize-winning blooms. The shrubs must also have perfect drainage.

One of the first indications of camellias suffering from an alkaline soil is a browning around the edge of the leaves. If you notice this condition, take steps immediately to counteract this alkalinity. There are many products on the market that will produce

excellent results. One of the most effective is Irontone, manufactured by the Destruxol Corporation. There are also a number of iron chelates on the market under different trade names that will do wonders for all acid-loving plants and shrubs. To keep the soil on the acid side it should be treated each spring and fall with any of the products mentioned.

Coming now to the insects and diseases that might affect camellias, I have always maintained that there is very little excuse for any gardener allowing his plants to suffer along this line. With the many wonderful insecticides and fungicides available at all garden supply dealers, there is no reason why any garden cannot be kept clean through a simple program of spraying or dusting.

The control of ants in the garden is of prime importance. These little (big) workers will protect and spread both aphid and scale, so be sure to set up a program of ant control. Any of the chlordane sprays or dusts will do an effective job.

We have two different types of damaging insects — those that chew the leaves and those that suck the juices from the shrub. When you see holes chewed in the foliage of your plants, you don't have to know what the insect is in order to set up a program of control. You know it is a chewing insect and all you have to do is spray the shrubs with a stomach poison.

Sucking insects (aphid and scale) are the most common on camellias) can be easily controlled by spraying

(Continued on Page 34)

Our Camellia authors

Mark Anthony is Assistant Superintendent of the Descanso Gardens in La Canada, California and has been a camellia grower for many years.

A garden correspondent for a Sacramento, California newspaper, **Mrs. R. C. Brown** is well qualified to write on camellia performance in that area.

Mr. F. T. Ching is at present working on a special research project for the Los Angeles State and County Arboretum Foundation.

Tom Durrant is one of our new foreign correspondents and living in Tirau, New Zealand is impressed and delighted with the surge of camellia enthusiasm in that country. Our connection with camelliaphiles "down under" is especially interesting because of the reversal of seasons.

David Gilfillan is Garden Editor of the Independent Star-News of Pasadena, California and is very much in touch with timely development in the horticultural world.

Dr. Walter C. Hava of Gulfport, Mississippi is one more ardent camellia grower who collects blue ribbons. His experiments with camellia blooms in the intense humidity of his area

should prove of value to others who grow camellias under like conditions.

As Manager of the successful Des-truxol Company, which maintains its own research laboratory, **Dorothy Jonson** possesses a wide background of knowledge of camellia culture. She is in constant demand as a lecturer and writer on garden subjects.

Dr. O. R. Lunt is a part of the Department of Irrigation and Soils of the University of California's College of Agriculture.

Charles Puddle has long been a cooperative member of the S C C S and his camellia background as Superintendent of the Bodnant Gardens of North Wales furnishes interesting material for his articles.

An ardent camellia fan who seeks the scientific way toward better camellias is **John Robinson** of La Canada, California.

Along with his work as Propagator at the Descanso Gardens, **John Sobeck** has his own camellia garden for pleasure and experimentation. At the present time as his article indicates, he is much interested in the results of his use of gibberellins.

Dr. W. S. Stewart is Director of the Los Angeles State and County Arboretum at Arcadia.

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Camellia MAIL BAG

Excerpt from letter of Walter Hazlewood, N. So. Wales, Australia

Have you any experience of *sasanqua* not flowering well in mountain districts or colder climates? Charles Puddle of Wales says they are no good with him and I have noticed in our mountain districts, that although they grow well they do not produce much flower. As far as England is concerned it might be put down to the lack of sunshine and warmth in their summer, but this would not apply to our mountains where it can get as hot as the coastal area, with the exception that nights are often much cooler. Winters are colder of course but I cannot think this would make any difference.

Ed. note: We think it would interest our readers if you who do grow sasanquas in colder climates would share your experiences. We hope you will write in — sasanqua season is coming before long.

* * * *

From F. R. Johnson, Industrial Chemicals Division Olin Mathieson Chemical Corp. San Mateo, California

An excerpt from a letter written to Mr. Homer C. Wilson of Fresno:

In reply to your recent letter, I am sorry that we cannot add much to that already printed in the *Camellia Review*. Our experience with Terraclor for control of camellia blight has been limited to North Carolina. We are currently enlisting the cooperation of our distributors and the University of California in our attempt to accumulate information relating to this use of Terraclor in California. Tests are being programmed at several locations but the results may not be available for quite some time.

For your information, we would

like to add the following suggestions for use of the Terraclor 20% Dust: Apply 2½ pounds of 20% Dust per 100 square feet of area on the soil surface or leaf litter beneath the bushes at weekly intervals during the bloom period and after each disturbance of the soil in the growing area, such as cultivation. During that season when there is no bloom, applications may be made at 4-6 week intervals. It is most important to keep a thin dust film on all open and bare soil areas in the immediate vicinity of the camellia bushes. Since the fungus is soil-borne and certainly air-borne during a particular stage of the fungus' life cycle, by inhibiting spore development we can locally control the disease by soil treatment.

Admittedly, there is a great deal to be learned about the use of Terraclor for control of camellia blight. Perhaps we will find that we can safely dust or spray the bushes without injury to the foliage or flowers. If so, then we may protect by timely applications of Terraclor. We do know that Terraclor will control the fungus causing camellia blight. That much is in our favor.

Terraclor is available as a 10%, 20% and 40% Dust and as a 75% Wettable Powder. These formulations are available through the L. H. Butcher Company. (See page 33.)

* * * *

From John L. Koehne, Jr. Camellia Society of the Potomac Valley

Mr. Koehne says in part, quote: "Thank you for your very nice article in the *Camellia Review* about the society's revised Handbook. It has resulted in any number of camellia growers writing for a copy, many requests coming from such diverse places as Texas and Louisiana with others coming from northern climates such as New Jersey and Pennsylvania.

Ed. note: We don't expect that all our readers will agree with our editor-

ship of the Review and usually no news is good news for mistakes are reported with maddening alacrity. We are most pleased when evidence is presented that the Camellia Review is read — and the above is the latest bit of evidence we have. So, thanks Mr. Koehne for telling us.

**From Dr. E. C. McRee of
Port Arthur, Texas**

An especially interesting paragraph from Dr. McRee's letter is as follows, quote; I wish you could see the group of *reticulatas* we made as cleft grafts this year employing a 2 inch *sasanqua* as understock. They are as bushy and prolific as any of our *japonicas*. Incidentally, they are planted in the ground with no artificial protection and we wish to see if they will bloom properly in this area out in the open.

Ed. note: Other Southerners who are becoming somewhat reticulata-conscious may be encouraged by the

Doctor's report. Be sure and send us further information — for instance, what varieties are you experimenting with?

**From Tom Durrant
New Zealand**

Our camellia season is just starting and the *sasanquas* are in full bloom at the moment. 'Daikagura' has already produced a bloom or two and 'Debutante' is showing colour. The "Camellia Review" is being read with considerable interest by the new members over here and I have sent copies to the Editor of the "New Zealand Gardener" which distributes about 12,000 copies monthly. I will do my best to keep you informed of any excitement that occurs in the New Zealand Camellia World. Interest is mounting rapidly and your efforts with the "Review" will play an important part in keeping it going.

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PREVENTING THE CAUSE

from Page 30

with a contact spray of which many are available. In spraying, be sure to apply the spray so that you are getting complete coverage of the shrub. Use a hose-attached spray gun such as the Hayes Sprayer. In using oil sprays to control scale, be careful not to do so when the temperature is over 80 degrees.

During the summer and fall months, be sure that your camellias never suffer from lack of water. A mulch of peat moss will help tremendously in keeping the roots cool. Remember that peat moss will hold 90 times its own weight in moisture. This means that when you irrigate you must be sure that the water is going down through the mulch into the vital root area of the camellias.

Bamico Says...

For the very best in Camellias shop at Bamico, your one stop Garden Center.

For the finest in House Plants we suggest a visit through our greenhouses.



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AT THE BOTTOM from P. 26

United States. The composts derived from the method suggested are very superior in all small scale garden work.

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There are many materials easily obtained for composting such as straw from packing around watermelons, waste from vegetable markets, waste from pruning, lawn renovations, etc.

NEW REGISTRATION

C. japonica 'Pauline Wetzler.' This seedling was originated by Pauline Wetzler of 2934 E. 22nd Ave. in Portland, Oregon. It first bloomed about 1954. Parents are unknown. The single blossoms are of deep pink on the outer edges shading to light pink centers meeting a heavy crest of light yellow stamens. The petals number from 7 to 9 and the flower size varies from 2½" to 3½". The plant has an open, pendulous growth, and produces very dark green leaves, coarse, thick and deeply veined. The leaves have an interesting characteristic of cupping back. The blooms last all during the month of April and the plant has withstood all kinds of weather.

MEMBERSHIP APPLICATION

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CAMELLIA REVIEWER from P. 2 taken and probably not by the one who took the picture. "Pooh-pooh" he says in effect. "What's the difference anyhow between a yellow camellia or one of any other color?" He ends by remarking that "Editor Brown's document reminds us of the remark about the fellow who tried to exhaust a subject and succeeded only in exhausting his listeners."

Our comment is that the Echo Editor would do well to look into his subject matter before dashing off such an editorial which, far more than Mr. Brown's, was "sharply discourteous in spirit," for it certainly is not discourtesy that forces a man to explain a situation which has been presented in a definitely wrong light. We are sure that the little Echo will have more than Mr. Brown's echo before camelliaphiles are satisfied.

By the way, we wonder if the Echo's Editor knows just what the tea in his teapot is?

Only 'til October

Discovering anew what every editor knows, i.e., that it is impossible to squeeze type, we refer you to the inside of the front cover from which the names of some committee chair-

men are lacking. This had to be because we have added two more members to our Board of Directors this year and also we proudly point out, we have added three Foreign Representatives, one of whom appears as a July author.

We hasten to inform our readers that a complete list of all SCCS Committee appointees and Committee Chairmen for 1957-58 will appear in the October Review.

We appear in New Zealand

We were very pleased recently to receive a copy of the "New Zealand Gardener" which contained the article "Camellia 'Apple Blossom'" by Andrew Sears of Portland, Oregon, a reprint from the Camellia Review to which full credit was given. The "New Zealand Gardener" is a very pleasant little magazine and with the upsurge of Camellia enthusiasm in New Zealand we are sure that more and more Camellia information will be found in its pages.

* * * *

So — dear readers — turn the page and forget.

Liz

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 956 N. Fulton
 Gibbs, Mr. and Mrs. M. K.
 369 Ferger Ave.
 Graham, J. W.
 4035 N. 7th St.
 Gregory, Mrs. W. A.
 352 N. J St., Dinuba
 Green, Mr. and Mrs. J. L.
 808 Robertson Blvd., Chowchilla
 Hall, Mr. and Mrs. J. Allen
 1130 Franklin St.
 Hass, Wolber S., Sr.
 53 20th St., Merced
 Harnish, Mr. and Mrs. Glenn
 5775 N. Van Ness Blvd.
 Hixon, Chrestine
 235 W. Garland

Ivanovski, Tatjana
 429 Clark
 Johnston, William B.
 1715 Farris
 Juergens, John
 625 E. Brown
 Keane, Mr. and Mrs. Paul H.
 919 Swift
 Kleim, Donald
 3810 N. Mariposa
 Leino, Frank
 632 W. Princeton
 LeValley, Mr. and Mrs. Louis
 2710 N. Dearing Ave.
 Lindeaur, Mrs. Bernice F.
 1105 Yale Ave.
 MacCracken, Dr. Frank
 1651 "L" St.
 Manning, Mrs. J. A.
 846 Franklin Ave.
 Markovich, Mrs. John
 4490 N. Van Ness Blvd.
 Marks, Miss Marie
 4555 Nevada Ave.
 McFarling, Mr. and Mrs. J. W., Jr.
 410 Yale Ave.
 Merino, Mr. and Mrs. Rey M.
 934 Yale Ave.
 Munger, Mr. and Mrs. Maynard
 5140 N. Fruit Ave.
 Nielsen, Mr. and Mrs. Julius B.
 440 Ferger Ave.
 Parr, Charles
 734 W. Lomona
 Paul, Mr. and Mrs. F. W.
 3293 W. Kearney Blvd.
 Pearson, Mr. and Mrs. L. N.
 916 Dinsadero
 Pettey, Mrs. Ruth
 605 McKinley Ave.
 Quigley, Raymond L.
 1637 Poplar Ave.
 Reinold, Mr. and Mrs. Kenneth
 2934 E. Ashlan Ave.

1215 Barney St., Fortuna
 Riggs, Howard
 394 S. Lake St., Madera
 Rowell, Mr. and Mrs. Milo E.
 5990 E. Butler
 Simonsen, Mrs. Patricia
 3251 Bellaire Way
 Smith, Mrs. Helen M.
 4774 E. Nevada
 Smith, Mr. and Mrs. Kermit
 315 Clinton
 Sporer, Frank
 2222 Berkeley
 Strohauer, Mrs. J. Louis
 2240 N. Van Ness Blvd.

Ulmer, Sam
 3524 Poplar Ave.
 Watson, Mrs. Ralph
 3555 Huntington Blvd.
 Weymouth, Mr. and Mrs. M. W.
 1546 Poplar
 Wheaton, Mr. and Mrs. Herbert H.
 3695 Van Ness Blvd.
 Wheeler, Mr. and Mrs. R. B.
 841 Dayton
 White, Mrs. G. W. E.
 2431 N. McCall, Selma
 Wilson, Mr. and Mrs. Homer
 734 University Ave.

CAMELLIA SOCIETY OF KERN COUNTY

All Bakersfield unless otherwise noted

Adams, Mrs. A. C.
 2827 Sunset
 Admiral, Elizabeth, M.D.
 101 Pacific St.
 Almklov, Dr. L.
 2609 Bank St.
 Baker, Mr. William M.
 411 10th St.
 Benson, Mrs. Burnham H.
 1731 Elm St.
 Bergman, Mr. and Mrs. Waldo R.
 2805 Barnett St.
 Bottorff, Mary Lee
 Buttonwillow, California
 Briones, Al
 408 18th St.
 Broderick, J.
 Valley Nursery, 423 California Ave.
 Buerkle, Mrs. William
 2437 Beech St.
 Cholet, Mr. Robert
 1710 Verde St.
 Clark, Mrs. Orville
 Box 1009
 Cook, Mr. Earl C.
 430 Baldwin Road
 Davis, Mr. and Mrs. Harry
 303 Pine
 Deadrich, Mr. Lou
 2908 La Cresta Drive
 Denslow, Nellie G.
 2300 "A" St.
 Dounies, Mrs. Catherine
 240 S. Real Road
 Duffy, Mr. and Mrs. J. A.
 337 Phillipine St., Taft, Calif.
 Evergreen Nursery
 630 H St.
 Eley, Mrs. Allison
 1230 S. Union Ave.
 Galbraith, Mr. and Mrs. G. H.
 2315 "A" St.
 Grazer, William E.
 2214 College Ave.
 Greer, Mrs. Georgia

224 H St.
 Gribbin, Mr. and Mrs. F. P.
 312 Garnsey Way
 Guimarra, Mrs. George
 515 Panorama Drive
 Haberkern, Mrs. E. J.
 1825 Brundage Lane
 Haberfelde, Mr. and Mrs. W. J.
 1800 2nd St.
 Hahn, Mrs. Ruth
 1024 Sterling Road
 Hansen, Mrs. Adolph
 2328 19th St.
 Harkness, Mrs. Tracy
 1101 Pershing Drive
 Heitmeyer, Mr. and Mrs. F. A.
 41-2 "F" St., 11-C Camp, Taft, Calif.
 Hickman, Mr. and Mrs. A. L.
 320 Quincy
 Hornkohl, Mr. and Mrs. Frank
 245 El Cerrita Drive
 Howell, Mrs. William, Jr.
 2428 21st St.
 Jarrett, Mrs. Douglas T.
 2823 Lake St.
 Johnson, Mr. and Mrs. Robert
 1902 Niles
 Kane, Mr. and Mrs. Walter
 415 Fairway Drive, Stockdale
 Kasey, Mary Ann
 P.O. Box 968
 Kirby, Mr. and Mrs. Paul
 130 Loma Linda Drive
 Kleinsasser, Amos
 2713 Laurel Drive
 Krammes, Lucy
 3001 Niles St.
 Lake, Mrs. L. F.
 629 Oleander Ave.
 Langworthy, Mr. and Mrs. Yale
 2029 Ester Drive
 Lewis, Mr. and Mrs. Louis
 549 China Grade Loop
 Lyons, Mr. and Mrs. W. K.
 2714 Sunset

Mailman, Jerry
 3009 Shelly Lane
 Main, Mrs. Norman
 925 Oleander Ave.
 May, Dr. Lucille B.
 2615 22nd St.
 McMillan, E. A.
 914 Oregon St.
 McFaddin, Mrs. W. E.
 419 Houchin Road
 Ming, Mr. and Mrs. George
 1309 L St.
 Moore, Eddie May
 415 Higgins Drive
 Nelson, Mr. and Mrs. Douglas
 2525 Cedar St.
 Newell, Mr. and Mrs. Paul
 2829 21st St.
 Ode, Mr. and Mrs. Vernon H.
 2101 Lantana Way
 Ogden, Dr. and Mrs. Roderick
 2221 Cedar St.
 Pauley, Mr. and Mrs. Harold
 2007 Blanche St.
 Phillips, Mr. and Mrs. C. H.
 2601 22nd St.
 Pratt, Mr. and Mrs. D. L.
 1718 Chester Ave.
 Priest, Mrs. B. H.
 6025 S. Union Ave.
 Reed, Mr. and Mrs. Emil
 3001 Sunset Ave.
 Regehr, Mrs. Henry J.
 115 Panorama Drive
 Reimer, Mr. and Mrs. Alvin
 119 Jeffrey St.
 Rockholt, Mr. and Mrs. L. H.
 627 "D" St., Taft
 Rudnick, Mr. Sam
 2325 18th St.
 Rydell, Mr. and Mrs. Paul
 P.O. Box, Wasco, Calif.
 Salisbury, Mrs. W. J.
 2123 1st St.
 Saunders, Mr. and Mrs. L. W.
 2731 18th St.
 Scarlett, Mrs. Alice L.
 325 Eye St.
 Schweitzer, Mrs. Emily
 2931 San Emedio
 Sharp, Mrs. Reuben B.
 300 South Real Road
 Smith, Mrs. Ned
 1313 Terrace Way
 Spears, Mrs. H. H.
 2708 Sunset Ave.
 Stewart, Mrs. Eunice
 904 Knott St.
 Stiern, Mr. Walter
 1729 Owens St.
 Stull, Mr. and Mrs. Thomas H.
 2626 Spruce St.
 Svendsen, Mr. and Mrs. A. R.
 2121 2nd St.
 Tibbs, Mr. Cecil
 Rt. 4, Box 424
 Tracy, Mrs. Fannie
 Camellia Grove Gardens
 Route 1, Box 178, Buttonwillow, Calif.
 Trowbridge, Mrs. A. L.
 2724 19th St.
 West, Mrs. C. L.
 2820 18th St.
 West, Flora
 1104 Wilson, Oildale, Calif.
 White, Mrs. R. E.
 2617 20th St.
 Wilkening, Dr. and Mrs. R. L.
 3019 Dartmouth

CAMELLIA SOCIETY OF ORANGE COUNTY

Adams, C. E.
 1447 Kenwood Ave., Anaheim
 Adams, C. W.
 18261 Serrano, Rt. 3, Orange
 Burdick, Mrs. E. K.
 12311 Chapman Ave., Garden Grove
 Butler, Mr. and Mrs. George T.
 1121 Orange Ave., Santa Ana
 Crawford, Mr. and Mrs. Lynn H.
 2202 N. Fowler St., Santa Ana
 Darling, Mrs. Adam
 2424 Riverside Dr., Santa Ana
 Eddson, Mrs. E. G.
 2201 N. Towner, Santa Ana
 Ehlen, Mr. and Mrs. Lawrence
 10232 Center Dr., Orange
 Forgy, Fred
 2428 Oakmont Ave., Santa Ana
 Foust, Mr. and Mrs. H. L.
 12562 Barrett Lane, Santa Ana
 Grout, Mrs. Perry
 11312 Santiago Blvd., Orange
 Johnson, Gladys M.
 810 French St., Santa Ana
 Kahen, Mr. and Mrs. F. E.
 9791 Gamble Ave., Anaheim
 Larsen, Mr. and Mrs. Harold
 212 S. Orange, Orange
 McClelland, Mr. and Mrs. Paul M.
 1088 N. Tustin, Orange
 McGill, Mr. and Mrs. Rexford S.
 12531 LaBella Dr., Santa Ana
 McGrath, Mr. and Mrs. William H.
 1229 W. Myrtle St., Santa Ana
 Nelson, Mr. and Mrs. D.
 1014 W. 20th St., Santa Ana
 Newcomb, Mrs. Fred
 RD 1, Box 74, Santa Ana
 Newerf, J. W.
 223 Via Nice, Newport Beach
 Paino, Mr. and Mrs. Joseph A.
 333 N. Maplewood, Orange
 Patterson, W. E.
 12612 S.W. Newport Ave., Tustin

Paul, Mrs. Clara E.
2535 Valencia St., Santa Ana

Potter, Roy W.
501 W. Santa Clara, Santa Ana

Powell, Mr. and Mrs. C. O.
1326 N. Towner, Santa Ana

Powell, Mr. and Mrs. Robert
109 Wright St., Santa Ana

Ragan, Mr. and Mrs. Robert
18721 E. Serrano, Orange

Ragland, Mr. and Mrs. R. W.
1440 E. Chapman Ave., Orange

Reed, Mr. and Mrs. Charles M.
1019 W. 19th St., Santa Ana

Rideout, Miss Esther
115 Orangewood Lane, Tustin

Shiflett, Clinton G.
448 W. Porter, Fullerton

Sperry, Mr. and Mrs. George Lyndon
2118 N. Pacific, Santa Ana

Watson, Mr. and Mrs. E. A.
14851 S. Yorba St., Santa Ana

Wheat, Mrs. George
2442 Bonnie Brae, Santa Ana

Wirtz, Mr. and Mrs. Arthur F.
529 S. Grand St., Orange

Woody, Mr. and Mrs. W. E.
14082 Brenan Way, Santa Ana

Zuck, Mr. and Mrs. Thomas F.
2510 N. Valencia, Santa Ana

POMONA VALLEY CAMELLIA SOCIETY

Alvarado, Mr. and Mrs. E. J.
308 Monterey Ave., Ontario

Barnes, Mr. and Mrs. Stanley
1080 Indian Hill, Claremont

Bell, Mr. and Mrs. George H.
3829 N. Garey Ave., La Verne

Benner, Mr. and Mrs. Bancroft
170 N. Monte Vista, San Dimas

Blair, Mr. and Mrs. George Y.
4750 Somerset Drive, Riverside

Bottoms, Mr. and Mrs. Kyle
5925 Riverside Drive, Chino

Bunnelle, Mr. and Mrs. Floyd R.
14001 Bunnelle Ave., San Dimas

Campbell, Mr. and Mrs. Jack
735 Dartmouth, Claremont

Cothran, Mr. C. D.
1105 N. San Dimas, San Dimas

Coulter, Mr. and Mrs. Stuart
1752 W. Bonita Ave., Charter Oak

Dial, Mr. and Mrs. Damon
3558 N. San Jose St., Covina

Davis, Mr. and Mrs. Charles E.
2565 5th St., La Verne

Dinwiddie, Mr. and Mrs. Mack
786 Altura Court, Pomona

Edwards, Mr. and Mrs. B. P.
4135 Oak Hollow Road, La Verne

England, Mr. M. H.
1122 Oxford, Claremont

Harmsen, Mr. and Mrs. Walter
366 East Columbia, Pomona

Hein, Mr. and Mrs. Oliver S.
3398 Vista Ave., Riverside

Hill, Mrs. Gertrude M.
231 W. 6th St., Claremont

Holland, Mr. and Mrs. J. A.
563 E. 24th St., Upland

Honaker, Mr. and Mrs. Lynn
2775 N. San Antonio Ave., Claremont

Johnson, Mr. and Mrs. Merton
159 N. San Dimas Ave., San Dimas

Lane, Mrs. Earlda B.
534 S. El Molino Ave., Pasadena

Lehman, Mr. and Mrs. M. H.
4793 Pershing, San Bernardino

McDonald, Mr. Robert A.
650 S. Amellia Ave., San Dimas

Moore, Mr. and Mrs. H. L.
918 E. "G" St., Ontario

Mueller, Mr. Elmer
P.O. Box 164, Etiwanda

Pace, Mr. and Mrs. B. M.
638 Pine St., Upland

Pearson, Mr. Harold
178 E. Aliso, Pomona

Plummer, Mr. and Mrs. Stanley
416 San Dimas Ave., San Dimas

Pugsley, Mrs. George
560 E. Pasadena St., Pomona

Rains, Mr. and Mrs. Jack
725 W. Baseline Road, Claremont

Reeves, Mr. and Mrs. Hubert
615 Erie St., Pomona

Reher, Mrs. J. C., Jr.
632 W. Granada Court, Ontario

Reher, Mr. and Mrs. L. W.
20538 Gladstone St., Covina

Rowe, Mr. and Mrs. Harold
456 N. 2nd St., Upland

Sexton, Col. and Mrs. James N.
895 N. 3rd St., Upland

Shattuck, Mr. and Mrs. D. L.
824 W. 20th St., Upland

Thomas, Mr. Clark
128 W. 6th St., San Dimas

Walker, Mr. and Mrs. Dallas I.
218 E. Cienaga Ave., San Dimas

Whitehead, Elizabeth
1300 Dudley St., Pomona

Yamamoto, Mr. and Mrs. Soby
1081 Weber St., Pomona

POTOMAC VALLEY CAMELLIA SOCIETY

- Abbott, Capt. and Mrs. Henry L.
4221 Van Ness St., N.W.,
Washington 16, D.C.
- Amann, Mr. I. Lee
7106 Central Ave., Tacoma Park 12,
Maryland
- Anderson, Mr. and Mrs. Walter F.
Route 2, Box 354, Woodyard Road,
Clinton, Maryland
- Bailey, Mrs. Alice W.
1306 Ridgecrest Drive, Wellington
Heights, Alexandria, Virginia
- Baker, Bertha M.
121 17th St., S.E., Washington, D.C.
- Bard, Mrs. Philip
6 Meadow Road, Baltimore 12, Maryland
- Bartlett, Mr. and Mrs. R. C.
6120 43rd St., Hyattsville, Maryland
- Beatty, Mr. and Mrs. John J., Jr.
3339 Reservoir Rd., N.W., Washington,
D.C.
- Beede, Mr. and Mrs. Merrill G.
906 Junior St., Alexandria, Virginia
- Behnke Nurseries
Washington-Baltimore Blvd., Beltsville,
Maryland
- Beksa, Mr. and Mrs. Edward J.
5231 Sherrier Place, N.W.,
Washington 16, D.C.
- Benoit, Mr. and Mrs. George
Snowden Farm, Fredericksburg, Virginia
- Berquist, Mr. and Mrs. Frederick E.
3746 Cumberland St., N.W., Washington,
D.C.
- Betts, Mr. and Mrs. T. Richard
4301 Eastern Ave., Mount Rainier,
Maryland
- Biddlecomb, Mr. Ralph R.
Reedville, Virginia
- Bishop, Mr. and Mrs. Jesse C.
5810 Lone Oak Drive, Bethesda,
Maryland
- Bonnell, Mr. and Mrs. Elwyn T.
5816 Ipswich Road, Bethesda 16,
Maryland
- Bowker, Mr. and Mrs. J. Paul
5706 Glenwood Road, Bethesda 14,
Maryland
- Briggs, Dr. and Mrs. Crenshaw
2613 Dunbarton Ave., Washington, D.C.
- Brown, Mr. and Mrs. Milton Henry
2220 N. Trenton St., Arlington 7,
Virginia
- Brown, Dr. and Mrs. Thomas McP.
814 26th Pl., South, Arlington, Virginia
- Canham, Mr. and Mrs. Robert A.
805 Foxwood Noak, Falls Church,
Virginia
- Carrere, Miss A. M.
3212 Reservoir Road, N.W., Washington
7, D.C.
- Carter, Mr. and Mrs. Edward P.
5505 42nd Ave., Hyattsville, Maryland
- Charter, Dr. and Mrs. W. V.
- Clements, Dr. and Mrs. Forrest E.
6000 Conway Rd., Bethesda 14,
Maryland
- 4914 N. 34th St., Arlington 7, Virginia
- Coleman, Mr. John E.
Coleman Nursery, 1234 Western Branch
Blvd., Portsmouth, Virginia
- Conner, Mr. and Mrs. Lendell A.
7125 Fairfax Rd., Bethesda 14, Maryland
- Consley, Mr. and Mrs. Raymond M.
Glen Hills, Rockville, Maryland
- Cooley, Mr. J. S.
10909 Montgomery Road, Beltsville,
Maryland
- Coward, Dr. C. Clifton
1223 S. View Rd., Baltimore 18,
Maryland
- Culpepper, Mr. C. W.
4435 N. Pershing Dr., Arlington,
Virginia
- De Vos, Dr. Francis
2402 "R" St., N.E., Washington, D.C.
- Domer, Mr. and Mrs. W. S.
3600 Idaho Ave., N.W., Washington, D.C.
- Downey, Dr. and Mrs. H. R.
5001 Fulton St., N.W., Washington
16, D.C.
- Dyar, Dr. Edna
3824 Harrison St., N.W., Washington,
D.C.
- Dye, Mr. and Mrs. John C.
2000 Jackson St., N.E., Washington
18, D.C.
- Eastern Shore Nurseries
Box 743, Easton, Maryland
- Edgecomb, Mrs. Hilda C.
10-B Crescent Rd., Greenbelt, Maryland
- Edwards, Col. and Mrs. L. E.
3737 Chesapeake St., N.W., Washington
16, D.C.
- Ellis, Mr. Charles H.
9636 Dixon Ave., Baltimore 14, Maryland
- Franklin, Mr. J. Morton
310 Sycamore St., Falls Church, Virginia
- Garbrick, Mr. and Mrs. Saylor
3714 Appleton St., N.W., Washington,
D.C.
- Gilbert, Dr. Engel L. R.
Burtonsville, Maryland
- Graf, Mr. and Mrs. J. E.
2035 Parkside Dr., Washington 12, D.C.
- Greenland, Mr. and Mrs. Milton
106 W. Rosemont Ave., Alexandria,
Virginia
- Grove, Capt. and Mrs. George P.
Spring Grove Farm, Lincoln, Virginia
- Gustin, Mr. and Mrs. Ray, Jr.
Gustin Gardens, Rockville, Maryland

Guthrie, Mr. and Mrs. Chester L.
5108 Westridge Rd., Washington 16, D.C.

Haag, Mr. Henry S.
4508 24th Ave., North Woodridge,
Washington, D.C.

Habecker, Mr. and Mrs. L. B.
10513 Green Acres, Silver Spring,
Maryland

Habel, Dr. J. M., Jr.
726 Jones St., Suffolk, Virginia

Hall, Mr. and Mrs. Douglas Deane
5501 Kirkside Drive, Chevy Chase 15,
Maryland

Hall, H. Duncan
7501 Fairfax Road, Bethesda, Maryland

Hall, Mr. and Mrs. Walter J.
6804 Pineway, Hyattsville, Maryland

Hammond, Mr. and Mrs. Harry C.
5109 Westridge Rd., Westhaven,
Maryland

Hansen, Mr. and Mrs. Niels J.
6135 Utah Ave., N.W., Washington
15, D.C.

Harding, Mr. George W.
Gaithersburg, Maryland

Hardy, Mr. Judson
9006 3rd Ave., Silver Spring, Maryland

Harwood, Mr. and Mrs. Hugh C.
130 James River Dr., Warwick, Virginia

Heap, Mr. Robinson
5408 Edgemont Lane, Bethesda 14,
Maryland

Hendryx, Mr. Charles W.
Dept. of Bldgs. and Grounds, University
of Virginia, Charlottesville, Virginia

Hetzel, Miss Alice M.
Cedarlane, Ednor, Maryland

Hightower, Dr. and Mrs. Robert
201 N. Washington St., Alexandria,
Virginia

Hill, Miss Evelyn Collins
Sea Breeze Farms, Lynnhaven, Virginia

Hill, Mr. and Mrs. Jerry
1722 N. Glebe Road, Arlington, Virginia

Holden, Mr. and Mrs. Charles F., Jr.
236 Belle Haven Rd., Alexandria,
Virginia

Holden, Mrs. Charles F.
100 W. Rosemont Ave., Alexandria,
Virginia

Hook, Mr. and Mrs. Charles, Jr.
Wing House, West Island, P.O. Box 232,
Glen Cove, L.I., New York

Irvine, Mr. and Mrs. Clarence A.
4386 Farmdale St., North Hollywood,
Calif.

Jarman, Dr. W. Dabney
1150 Connecticut Ave., N.W., Suite 41,
Washington 6, D.C.

Jones, Mr. and Mrs. S. C.
4411 S. 4th St., Arlington 4, Virginia

Jones, Mr. and Mrs. Paul D.
4 Morerick Ave., Catonsville 28,
Maryland

Joynt, Mr. and Mrs. John Howard
601 Duke St., Alexandria, Virginia

Kekenes, Miss Julia
4725 Colorado Ave., N.W., Washington
11, D.C.

Killmaster, Mrs. Benjamin
1230 Arlington Ridge Road, Arlington,
Virginia

Knock, Mr. and Mrs. Lewis H.
1016-A N. Market St., Frederick,
Maryland

Koehne, Mr. and Mrs. John L., Jr.
Route 3, Box 277, McLean, Virginia

Koehne, Mr. and Mrs. John L.
161 E. 79th St., New York 21, New York

Kumiansky, Marjorie
Route 1, Box 152, Annandale, Virginia

Lady, Dr. and Mrs. Wm. T.
2735 Fort Scott Dr., South Arlington,
Virginia

Lamond, Mr. and Mrs. Clyde C., Jr.
604 Janney's Lane, Alexandria, Virginia

Lawler, Mr. and Mrs. E. E., Jr.
P.O. Box 327, Alexandria, Virginia

Legendre, Mrs. J. L.
Wachapreague, Virginia

Leventhal, Mr. and Mrs. David
3000 Garrison St., N.W., Washington,
D.C.

Long, Mr. and Mrs. Maurice G., Jr.
RFD 1, McLean, Virginia

Love, Sarah Elizabeth
905 Ray Road, Hyattsville, Maryland

Luce, Mr. and Mrs. Clifford H.
3 W. Grove Drive, Alexandria, Virginia

Lyons, Mr. and Mrs. A. Basil
Huntingdon Road, Huntingdon Valley,
Pennsylvania

MacWelch, Mr. John E.
3420 Orchid Dr., Falls Church, Virginia

Mangus, Dr. Lewis E.
313 Mansion Drive, Alexandria, Virginia

Mann, Mr. and Mrs. R. Gamble
810 Vicar Lane, Alexandria, Virginia

Marbury, Mr. and Mrs. S. L.
531 Forest Hills Dr., Wilmington, N.C.

Marin, Mr. Bernard
369 Westwood Road, Woodmere,
New York

Markert, Mr. and Mrs. Benjamin F.
4863 28th St., North, Arlington, Virginia

Marriott, Mrs. J. Willard
4500 Garfield St., N.W., Washington
7, D.C.

Maryott, Dr. and Mrs. Arthur A.
4404 Maple Ave., Bethesda, Maryland

Matheson, Mr. and Mrs. Malcolm, Jr.
Ferry Point, Mt. Vernon, Alexandria,
Virginia

Matheson, Mr. and Mrs. Malcolm, Sr.
Wellington, Alexandria, Virginia

Mattox, Mr. and Mrs. Granville
6014 Conway Rd., Bethesda, Maryland

Mauldin, Mrs. Guy E.
301 Forest Dr., Falls Church, Virginia

McCann, Miss Claribel
6817 Laurel St., N.W., Washington
12, D.C.

McVey, Mr. and Mrs. Daniel H.
5615 Johnson Ave., Bethesda 14,
Maryland

McKinney, Mr. and Mrs. Warner H.
4910 15th St., North, Arlington, Virginia

Merrick, Mr. Miles
Merrick, Nursery, 407 Main St.
Bridgeville, Delaware

Minarik, Dr. and Mrs. C. E.
P.O. Box 68, Braddock Heights,
Maryland

Montell, Mr. William B.
Poplar Point Nursery, Route 3,
Cambridge Maryland

Moore, Mrs. Charles B.
207 Prince St., Alexandria, Virginia

Moore, Mr. James R.
11 N. Boxwood St., Hampton, Virginia

Morris, Dr. and Mrs. W. Ross
3040 Garrison St., N.W., Washington,
D.C.

Morton, Mr. and Mrs. Jack
5021 Loughboro Rd., N.W., Washington
16, D.C.

Murphy, Mr. and Mrs. Royal G.
2914 First Rd., North, Arlington,
Virginia

Myton, Mr. and Mrs. Buell R.
1201 Juniper St., N.W., Washington,
D.C.

Nicklas, Dr. Edward W.
5112 Lowell Lane, N.W., Washington,
D.C.

Noell, Mr. and Mrs. William C.
2102 Scroggins Rd., Alexandria, Virginia

Nolan, Mr. and Mrs. W. J.
4612 Beechwood Rd., College Park,
Maryland

Norfolk, Mr. Paul
6012 39th Ave., Hyattsville, Maryland

O'Grady, Mrs. Gerald P.
7807 Radnor Rd., Bethesda, Maryland

Palmer, Dr. M. Virginia
136 S. Washington St., Easton, Maryland

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4000 Nebraska Ave., N.W., Washington
16, D.C.

Parsons, Mr. and Mrs. Alison J.
7439 Flicker Point, Algonquin Park,
Norfolk, Virginia

Peters, Mr. Harry T.
Clifton, Orange, Virginia

Phillips, Dr. Charles R.
608 N. Market St., Frederick, Maryland

Presnall, Mr. and Mrs. Clifford C.
4923 Earlston Drive, Washington, D.C.

Prevail, Mr. and Mrs. Frank H.
4303 Knowles Ave., Kensington,
Maryland

Quayle, Dr. and Mrs. Edgar E.
7426 Hampden Lane, Bethesda,
Maryland

Rend, Mrs. Doris
Fairview, Easton, Maryland

Rice, Mr. and Mrs. Wade H.
4320 Underwood St., University Park,
Hyattsville, Maryland

Richardson, Mr. David
3338 Dent Place, N.W., Washington 7,
D.C.

Ruff, Mr. and Mrs. Douglas
2716 Blaine Dr., Chevy Chase 15,
Maryland

Ruffner, Mr. Richard L.
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Sample, Mr. and Mrs. C. H.
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Schneider, Mr. Herbert A.
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Sculley, Mrs. John, Jr.
Harbor Road, St. James, L.I., New York

Sells, Leonard L.
3704 23rd St., North, Arlington, Virginia

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1316 Munsey Bldg., Baltimore 2,
Maryland

Simpson, Dr. and Mrs. G. Victor
1715 Hoban Road, N.W., Washington
7, D.C.

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Allen Acres, Ashton, Maryland

Smith, Mrs. Charles Watson
2133 "R" St., Washington 8, D.C.

Smith, Dr. Claiborne
208 Hickory St., Rocky Mount,
North Carolina

Smith, Mr. and Mrs. Jesse R.
3830 Garrison St., N.W., Washington
D.C.

Smoot, Mr. and Mrs. Ernest W.
3752 Cumberland St., N.W., Washington,
D.C.

Stadler, Mr. Paul
Stadler Nursery, 1908 Glenallan Ave.,
Glemont, Silver Spring, Maryland

Steel, Mr. Edward F.
3017 Dent Place, N.W., Washington
7, D.C.

Stevens, Mr. and Mrs. Byam K.
Holly Hedge Nursery, Centreville,
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