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MARCH
Vol. 20
No. 2

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THE COVER
TROPICANA ROSE—1963 All-America
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The Rocky Mountain Seed Company
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Denver, Colorado

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Crestview Nursery
Denver Forestry & Landscape Co., The
Elcar Fence & Supply Co.
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Every Saturday Morning — 9:15 a.m., KLZ Radio
Every Saturday Afternoon — 3:30 p.m., KLZ-TV, Channel 7
The Green Thumb Program, Herbert Gundell, Denver County Agricultural Agent
The Weekend Gardener, Herbert Gundell
MARCH
14—Thursday, 7:30 p.m., Denver Botanic Gardens Junior Committee
15—Tuesday, 12:30 p.m., Mountain View Garden Club Luncheon Meeting
16—Wednesday, 2:30 p.m., Parks-Recreation Gardeners’ Meeting
17—Thursday, 9:30 a.m., 4-H Club Leaders’ Meeting
18—Monday, 9:00 a.m., Around the Seasons Club
19—Friday, 1:00 p.m., Ikebana International Flower Arranging Class
20—Monday, 10:00 am., Judges’ Council
21—Wednesday, 7:30 p.m., Landscape Contractors
22—Tuesday, 12:30 p.m., Mountain View Garden Club Luncheon Meeting
23—Monday, 10:00 am., Herbarium Study Group
24—Saturday, 10:00 a.m., Around the Seasons Club
25—Monday, 10:00 am., Denver Botanic Gardens Junior Committee
26—Tuesday, 12:30 p.m., Colorado Federation of Garden Clubs State Board Meeting
27—Wednesday, 7:30 p.m., Landscape Contractors

Books and Booklets For Sale
The following publications are available for purchase in the office at Botanic Gardens House, 909 York Street:

AFRICAN VIOLET SHOW sponsored by the Rocky Mountain African Violet Council will be held at Botanic Gardens House, 909 York Street, Sunday, April 20th and 21st, from 12:00 noon until 5:00 p.m. Public invited. Admission free. Mrs. Gretchen Clayton, Chairman. SU 1-3468.

THE COLORADO GLADIOLUS SOCIETIES recommend four new All-America beauties this year.

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GOLDILOCKS — Tiny ruffled golden yellow miniature.
VICTORY — Glowing scarlet, 5½ foot spikes.
MORNING SUN — A glorious, bright-as-the-sun, deep yellow.

Try these and the other All-America winners for a real treat in your garden.

If you would like to get acquainted with others interested in Gladiolus, just mail your name and address to Mrs. W. S. Wood, 295 Allison St., Lakewood, Colorado.

SINCERE THANKS from the staff at Denver Botanic Gardens to the good friends who made it possible for the offices to be equipped with a new and modern mimeograph machine. Mimeograph work will be done for garden clubs at a very reasonable rate.

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Our Conservatory

A. C. Hildreth, Director

Soon Denver will have a Conservatory. This fine addition to the city's attractions has been made possible by the Boettcher Foundation's recent gift of $600,000 to Denver Botanic Gardens for erection of a conservatory building. A previous grant of $10,000 was made in March, 1962, for preliminary studies and plans. Construction work will begin by mid-summer.

This magnificent structure will be a memorial to the late Mr. and Mrs. Claude K. Boettcher, who had shown deep interest in providing a Conservatory for the people of Denver long before Denver Botanic Gardens came into existence.

After reviewing the plans, Mayor Dick Batterton commented as follows: "In my opinion, such a conservatory will be a tremendous asset to Denver and one which will be appreciated by an overwhelming majority of our citizens as well as by thousands of visitors to the Mile-high City. To my way of thinking, no cultural development can be envisioned which would have such a wide appeal nor such an inspiring and salutary impact on our community."

Both the Mayor and the Council of the City and County of Denver have expressed willingness to appropriate funds for the operation and maintenance of the Conservatory. In fact, the Boettcher Foundation made such financial support from the local government a condition of the grant.

Designing and supervising architects are Mr. Victor Hornbein and Mr. Edward D. White, Jr., both of Denver. Consultants are Mr. Walter Kelsey of Tarrytown, New York, a specialist in greenhouse and conservatory design, and Mr. T. H. Everett, Assistant Director of The New York Botanical Garden, who has made extensive studies of conservatories both in America and Europe.

The Conservatory will be a huge structure. The plant-growing part will be 144 feet long, 72 feet wide and 51 feet high and will have more than 10,000 square feet of floor space. In addition, there will be space for the heating and air-conditioning system, storage and work rooms and an entrance lobby.

This lobby will serve both the Conservatory and a future Horticulture Hall. The latter building will contain a large meeting and exhibit room, class rooms, library, herbarium, laboratories and offices. It is hoped that enough money can be raised to permit construction of Horticulture Hall at the same time that the Conservatory is built, but at present no such funds are available.

The complex of Conservatory and Horticulture Hall will be located in our York Street unit along the northern boundary of the property and west of York Street. A range of greenhouses to the west of the Conservatory is planned for the future.

These buildings will be located so as not to obstruct the view of the mountains to the west and south. The Conservatory will have a high balcony on the west end, overlooking most of the garden and affording an excellent vantage point from which to see the grand mountain panorama.

A conservatory is essentially a special type of greenhouse for displaying interesting plants that cannot survive out-of-doors in the locality of the conservatory. In common with all temperate-zone conservatories, ours will feature plants of tropical and subtropical regions.

The tropics are very rich in plant species but our conservatory can display only a few which are of most botanical interest or of greatest horticultural merit and also some of the economic species that yield products of importance in our daily lives. Although esthetic effect is not the chief concern of a botanic garden, there will be many beautiful plants in our conservatory and all will be arranged to give a pleasing landscape effect.

Such a plant collection will contribute to the enjoyment and botanical appreciation of the general public. It will be invaluable to teachers and students of biology in our schools and colleges, many of whom might otherwise never see living tropical plants.

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COMPLETE CARE AND MAINTENANCE OF TREES, SHRUBS AND EVERGREENS
ONE of Colorado's most spectacular floral exhibitions will burst forth again with color and a shower of practical ideas for Coloradans on March 30th. This year's show will be expanded in both title and length. "Better Outdoor-Indoor Living For You" will be the theme of the show which now has the word "Home" in the title, and will run nine days through April 7th, instead of eight days as during the two most recent years. The show will be staged in Denver's National Western Stadium and Exhibit Hall.

Sponsored by the Denver Botanic Gardens, the non-profit show has grown each year with over 50,000 persons attending in 1962. Proceeds of the show go to the Denver Botanic Gardens and the event is dedicated to the purpose of bringing to people everywhere a greater knowledge of improved outdoor and indoor living information with an emphasis on color, design, flowers and foliage.

Feature Garden designer Gene Eyerly has followed the Garden and Home Show theme for 1963 closely. Because of large crowds the designer has concentrated on a layout which will allow maximum convenience of traffic patterns in the main garden area. The east and west focal points of the Garden will be the World Globe at the east end, and the modern garden with a home scene at the west. Surrounding the arena will be two large flower banks, the Rustic Garden, Rose Garden and Japanese Garden. Brief descriptions of the garden settings are as follows:

World Globe — This rotating world globe shows 16 flowers together with the countries of their origin. Ribbons run from countries on the revolving globe to containers of flowers.

Modern Garden — A distinctive house facade sponsored by Wood, Inc., is the setting for the modern garden which will give some practical ideas to the homeowner. This garden achieves a complete and pleasing design, with balance between smooth and rough texture, curved and straight lines, contrast and repetition.

Flower Banks — There will be two large banks of flowers at the east end of the arena which will serve as a circular "Frame" for the World Globe as the public walks east down the center aisle of the show.

Rustic Garden — Outdoor living with a rustic flavor will be seen in this garden scene which utilizes a terrace effect to take away from the strictly level look. Redwood patio furniture carries out the rustic theme and invites the family to begin planning for summer outdoor living fun.

Rose Garden — An arbor with fence background will highlight several of the new 1963 rose introductions. More than fifty rose bushes will adorn this...
garden with its contrasting levels and variety of texture.

Japanese Garden — One of the fastest growing schools of garden design in the U. S. today is the Japanese garden. Stanley Yoshimura again will bring one of the distinctive Japanese garden designs to the public.

The National Western Exhibit Hall will be filled to capacity with informative and educational displays by commercial exhibitors. The quality of displays has risen each year and many of the individual displays attract equal attention with the feature garden. This year's theme of "Better Outdoor-Indoor Living For You" will be carried out as the various local and national companies offer the newest and latest ideas in products and services.

Several other popular sections of the show will be described below: Aquarium Show, Bonsai Club Exhibit, Competitive Flower Show, Product and Service Theater, Men's Garden Club Exhibit and the Garden and Home Theater. These and other special displays will round out this major exhibition.

Aquarium Show — This will be the 11th Annual Aquarium Fish Show sponsored by the Colorado Aquarium Society. Their theme will be "The Parade of the Exotic Fishes" and several hundred fish will be displayed on a competitive basis. This popular show will be staged at the west end of the National Western Stadium.

Bonsai Club Exhibit — Flower arrangement and distinctive decoration ideas are two of the worthwhile values which come from a study of this exhibit. Always a favorite at the show, this display can be seen at the south edge of the Stadium arena.

Competitive Flower Show — The Federated Garden Clubs of Colorado will again present this event which is entitled "Beautiful Colorado." This is a highly popular section of the show with changes in the flower arrangements being made daily. Table settings and dried arrangements give many new ideas to those attending. This will be featured at the southwest corner of the Stadium.

Product and Service Theater — This will be a new feature of the 1963 Show. It will be located at the northwest corner of the Exhibit Hall. There will be a continuous series of film and personal demonstrations of equipment and products.

Men's Garden Club Exhibit — This will comprise over 100 feet of displays by the Men's Garden Clubs of Colorado. These will be competitive garden scenes. This very interesting feature of the Show will be located along the south corridor of the Stadium.

Garden and Home Theater — This will be a leading feature of the show with the following events scheduled (exact time to be given later in the press):

**AFTERNOON EVENTS**
- Flower Arranging
- Fashion Show (3 p.m.)
- Cooking Presentation

**EVENING EVENTS**
- Indoor-Outdoor Lighting
- Fashion Show (8 p.m.)
- Barbecue Demonstration
- Garden and Lawn Care

The success of the 1963 Colorado Garden and Home Show is due entirely to the combined efforts of many sponsors, contributors, exhibitors, garden clubs and the advertising and news media which are giving their best efforts to make this an excellent show. The women's and men's garden clubs do an outstanding job on advance ticket sales throughout the state. In tribute to the statewide efforts which support the show, feature days will be as follows:
- Mar. 30 — Sat. — Colorado Springs
- Apr. 1 — Mon. — Denver (City and County)
- Apr. 2 — Tue. — Tri-County Area
- Apr. 3 — Wed. — Boulder
- Apr. 4 — Thur. — Ft. Collins-Greeley

Mar. 31 — Sun. — Southern Colorado

**General Manager of the Show**

THE GENERAL MANAGER of the 1963 Colorado Garden and Home Show is Dick Haughton. In addition to his work for the Garden and Home Show, Haughton directs several other major area trade shows each year including the Colorado and Kansas Sports Boat and Travel Shows. The new manager served as Exhibit Sales Manager for the first three years of the Colorado Garden Show and has attended many of the nation's leading garden and home shows.

Haughton received his Master of Business Administration Degree from the University of Denver in 1952, and following a 4-year tour of duty as a Navy Officer in Washington, D. C., returned to Denver in 1956. He feels that the Colorado Garden and Home Show will grow to be one of the largest and most popular trade shows in the region. Also, he hopes the show will serve as a focal point in the continuing effort to keep Colorado Colorful and to enhance the knowledge of all persons attending the Annual Exposition.

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For the Show
Michael C. Averill

YES, THERE WILL BE hundreds of fish splashing around in their own aquariums just waiting for the thousands of people to view them at the 1963 Colorado Garden and Home Show, March 30, through April 7, 1963. The fish show will be exhibited by the Colorado Aquarium Society, a non-profit organization for the betterment of the tropical fish hobby.

The electric eel, from South America, will be one of the most exciting fishes that will be on display. With the special modified lateral muscles, the electric eel can generate up to 500 volts of electricity and when discharging in a favorable position, it is sufficient to stun large animals.

The piranha, flesh eater of the Amazon River will be another attraction which everyone will enjoy watching — that is, as long as there is plate glass between you and this savage. As you look into his mouth you will notice his razor sharp teeth that can snap a finger off if you dare offer it to him. In the Amazon River, hundreds of these fishes can be attracted by blood and will come several miles to eat helpless victims in only a matter of seconds.

There will be fishes that give live birth to their young, and those that will lay eggs, and those that float their eggs in a nest of bubbles. Also, there will be a salt water nurse shark, sea horses, angel fishes, sword tails, platies, neon tetras, catfishes and many of the hundreds of tropical fishes that are found around the world.

You will find some of the fish with their long flowing fins swimming slowly by in their own graceful style while others dart from one place to another with the speed of lightning. It will be so peaceful and beautiful with colors of brilliant yellow, crimson, orange, rose-pink, lilac, scarlet, vivid greens and blues of every shade which will blend and intermingle.

Decorating the home with aquariums is getting to be very common because of the great interest in ocean life and the wide variety of different types of beautiful aquariums that can be used in the home to give it this aquatic appearance. It is truly a hobby of great interest and has educational value covering a wide range from home beautification to mental therapy.

Members of the Colorado Aquarium Society will be on hand to answer questions pertaining to the tropical fish hobby and to the Society.

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Designer of the Show

SHOW DESIGNER Gene Eyerly worked with the management of the Des Moines and Chicago Garden Shows between 1956 and 1959. He brings many new ideas into the feature garden based on this experience. The 1963 Garden has a strong emphasis on the garden and home setting combined with the international flavor of the World Globe and Japanese Garden.

Eyerly, a navy veteran of W.W. II and the Korean conflict, is a graduate of the American Landscape School in Des Moines and has served as a landscape designer and project superintendent in the Rocky Mountain region since 1959. He was associated with Alameda Nursery between 1959 and 1962 and is currently doing landscape design and management work with Lew Hammer, Inc. This background of landscape and horticulture work in this region combined with his previous work on garden shows can be readily appreciated by those attending the 1963 Colorado Garden and Home Show.

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At The

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Entries — MRS. CARL FAURSCHOU — 4831 Newton — GL 5-3245,
Denver 20, Colorado

Staging — MRS. J. V. CARROLL — BE 3-5524;
MRS. DONALD MOSS — HA 2-0038

Judges and Awards — MRS. ALBERT PETRIK — SU 1-5054

DIVISION I — ARRANGEMENTS

Beautiful Colorado as expressed in floral design.

SECTION 1 — Fresh cut material predominating. Accessories permitted. Card of interpretation to accompany each exhibit.

Class 1 — SPACIOUS SKIES — Showing good use of space. Make as modern as you wish — large. Background provided. This class will show March 30, 31 and April 1.

Class 2 — FRUITED PLAINS — Large. Fresh fruit and plant material may be used. Background provided. Will show March 30, 31 and April 1.

SECTION 2 — These classes will show April 2, 3 and 4.

Class 3 — MAJESTIC MOUNTAINS — Our snowcapped peaks and purple mountains should give you many ideas. Large arrangements, please. Background provided.

Class 4 — LONE PRAIRIE — Large, lovely arrangements of dried material. Background provided.

SECTION 3 — These classes will show April 5, 6 and 7.

Class 5 — RHYTHM OF THE RUSHING STREAMS — Large, showing your interpretation of rhythm. Backgrounds provided.

Class 6 — GRAND MESA — Gracious living as we know it. One placement table setting for outdoor living.

SECTION 4 — Dried Plant Materials. (Entries to be made on Saturday, March 30 to remain on display until 10 p.m. Sunday, April 7.)

Class 7 — PLAQUES AND ORNAMENTS — Any type, any size not shown previously in competition.
   a. Singles.
   b. Pairs.

DIVISION II — HORTICULTURE

Colorado's Beautiful Horticulture

SECTION 5 — Cut flowers, 5 stems unless otherwise stated, to be shown in glass containers. (Classes in this section will change every three days.)

Class 8 — SPRING FLOWERING BLOOMS. Committee reserves right to subdivide as indicated by number of entries.

Class 9 — FLOWERING SHRUBS or TREES — one stem not over 18” long.

SECTION 6 — Growing plants.

Class 10 — DISH GARDENS, BOTTLE GARDENS which have been planted and maintained by exhibitor for at least one month.

Class 11 — POTTED PLANTS.
   a. Flowering.
   b. Foliage.
   c. Slips or cuttings by exhibitor.
   d. Pot or flat of seedlings by exhibitor.

In March we recommend Lime Sulphur on Spruce Trees.

Schulhoff Arborist Service

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Technical Advisor of the Show

PAT GALLAVAN is Technical Advisor to the show manager and also serves as Director of the Garden and Home Theater. He will give a presentation each evening in the theater on Lawn, Tree and Shrub Care in the Rocky Mountain Region.

Gallavan is a graduate of Denver University with a B.A. and M.A. in botany. He is Secretary of the Colorado Nurserymen's Association and Director of the Colorado Garden Show, Inc. His activities include the Denver Rose Society, the Men's Garden Club and the Swingle Study Group. Formerly the Executive Manager of the Colorado Forestry and Horticulture Association and Editor of The Green Thumb magazine, he is now Superintendent of Denver Mountain Parks.

WOOD, INC., Sponsors Home Setting

WOOD, INC., IS THE sponsor of the home setting at the west end of the 1963 Feature Garden. The attractive house facade will include many of the finest wood products used in home construction today, including Curtis Entry-Warp doorway frames, Red Cedar Shakes, Andersen Window and Patio Doors.

Wood, Inc., is an organization dedicated to new and better uses of wood in all phases of construction. Its members include the following types of firms: retail, warehouse wholesale, office wholesale and miscellaneous wood products. The organization has many informative pamphlets available to the public on the various uses of wood through their office at 2106 Tower Building, Denver 2, Colorado.

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**GREEN BOWERS**

NURSERY — GARDEN CENTER

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SH 4-1711
The Helen K. Fowler Library Committee is now engaged in working over the books to make the library more useful to members of Denver Botanic Gardens and the general public.

The first thing on the program is the preparation of a pamphlet file by subject headings so that this vast amount of miscellaneous material can be more easily used for reference purposes.

Next, an inventory will be taken of all the publications in the library and all surplus or obsolete material will be eliminated or stored. Some of these books, as well as books which do not pertain to a botanical library, may be used as trading stock with other libraries, or sold. Thus, additional space will be provided for new acquisitions which are now being ordered. There is about $1,300 available for book purchases in the fund raised by the late Mrs. Helen Fowler.

Mrs. Moras Shubert, of the Colorado State Library staff, has been working as a consultant in developing procedures to be followed and has prepared a statement of policy regarding disposition of private library gifts to the Helen Fowler Library. This policy was adopted by the committee. The fine book collection of the late M. Walter Pesman and also material from the library of the late Kathryn Kalmbach will be indexed and catalogued.

A much-appreciated gift from committee member, Mrs. Charlotte Barbour, is making it possible to use professional help to functionlize the library and to expedite the preparation of the pamphlet file. Mrs. Arthur Helriegel, a graduate of Denver University Library School, who has contributed a great deal of time on a volunteer basis, will supervise this program with the clerical assistance of Mrs. Florence H. Jones.

Other members of the committee will serve on sub-committees for purchasing, inventory and review of gift collections. Later, we hope that they will act as library attendants in order to keep the library open when the regular staff is not on duty.

The committee will also collect historical material pertaining to Denver Botanic Gardens. In this connection, we express our appreciation to the Park Hill Garden Club (Mrs. Gerald Gorsuch, President) whose members are mounting in scrap books the large collection of historic material gathered by M. Walter Pesman.

Other members of the Library Committee not mentioned above are: Mrs. Graham Morrison, Mrs. F. W. Ethell, Mrs. Harold Bergman, Mrs. Helen Vincent, Dr. A. C. Hildreth, Clyde Learned and Fred Johnson, Chairman.
The hybrid teas recommended are:

1. Peace Yellow Blend All-America in 1946
2. Crimson Glory Dark Red Introduced in U.S. in 1935
3. Charlotte Armstrong Light Red All-America in 1941
4. Tropica Orange-Red All-America in 1963
5. Chrysler Imperial Dark Red All-America in 1953
6. Tiffany Pink Blend All-America in 1935
7. Rubayat Light Red All-America in 1947
8. Confidence Pink Blend
9. Helen Traubel Pink Blend All-America in 1952
10. Garden Party Nearly White All-America in 1960
11. Mme. Henri Guillot Red Blend Introduced in U.S. in 1938
12. Tally Ho Light Red All-America in 1949
13. Sutters Gold Orange Blend All-America in 1950
14. Kings Ransom Dark Yellow All-America in 1962
15. Show Girl Medium Pink
16. Nocturne Dark Red All-America in 1948
17. Eclipse Medium Yellow Introduced in U.S. in 1935
18. Mirandy Dark Red All-America in 1945
19. Mojave Orange-Red All-America in 1954
20. Pink Favorite Medium Pink
21. Duet Two Tone Pink All-America in 1961
22. South Seas Pink Blend
23. White Knight White All-America in 1958
24. First Love Light Pink
25. Mission Bells Pink Blend All-America in 1950

It is interesting to note that of the 25 recommended hybrid tea roses, 17 were chosen by the All-America Selection Committee as All-Americas, whereas 3 of the roses — Crimson Glory, Mme. Henri Guillot and Eclipse — were introduced from Europe into the United States prior to the establishment of the All-America Selections.

It is admitted, that it was more or less of a tossup in selecting the last 5 or 6 roses in the above list as much as there are a number of other excellent hybrid tea roses that do well in Colorado and that could have been included. However, it is believed that this recommended list should be very helpful and satisfactory in making a selection.

During recent years the grandifloras, which are a cross between the hybrid teas and floribundas, have performed very well in this region. In general these roses are a little taller than the hybrid teas and although some varieties in this class do have a tendency to cluster, they, for the most part, have individual stems which are long enough for cutting and are excellent for exhibition purposes.

Grandifloras that are recommended include:

1. Queen Elizabeth Medium Pink All-America in 1955
2. Carrousel Dark Red
3. Montezuma Orange-Red
4. Starfire Currant-Red All-America in 1959
5. Roundelay Dark Red
6. El Capitan Medium Red
7. Pink Parfait Pink Blend All-America in 1961
8. Golden Girl Medium Yellow
10. June Bride White

Floribundas are low growing bushes on which the blooms are in clusters, and are used effectively in borders or hedges or where a mass planting is desired.

Floribundas recommended include:

1. Fashion Pink Blend All-America in 1950
2. Spartan Orange-Red
3. Frensham Dark Red All-America in 1952
4. Vogue Pink Blend
5. Red Pinocchio Dark Red
6. Eutin Dark Red
7. Ivory Fashion White
8. Floradora Salmon-Rose All-America in 1959
9. Dagmar Spath White
10. Betty Prior Medium Pink (5 petals)
11. Else Poulson Medium Pink
12. Jiminy Cricket Orange Blend All-America in 1955
13. Circus Yellow Blend All-America in 1956
14. Little Darling Yellow Blend
15. Independence Orange-Red
16. Permanent Wave Medium Red
17. Fusilier Orange-Red All-America in 1958
18. Ma Perkins Coral-Pink All-America in 1953
19. Sarabande Orange-Red All-America in 1960
20. Fire King Orange-Red All-America in 1960

Four roses were chosen as All-America Selections by the committee for 1962. The most outstanding one appears to be Kings Ransom, a golden yellow hybrid tea with rather long pointed buds which open into high centered blooms. This is a very attractive and worthwhile rose. The bush is a vigorous upright plant about 3½ to 4 feet tall, and has excellent glossy foliage which appears to be disease resistant. This rose is recommended as a must rose for those who like a yellow rose.
Christian Dior: This beautiful medium red hybrid tea rose is about 3½ feet high and has large well formed blooms with many petals which hold up well in the sun. Up to date, this rose is a rather sparse bloomer and although the foliage is satisfactory it appears to be subject to some mildew. As we now have so many fine new red roses I do not recommend this rose as one to get too excited about.

John S. Armstrong: This dark red rose ranges from 3 to 3½ feet in height and is rather small for a grandiflora. The blooms have a good red color, are double, and when fully open are rather flat. Most of the blooms are on individual stems which are fine for cutting and rose show purposes. The foliage is good and appears to be disease resistant. This rose, in my opinion, is not in the same class with Carrousel, El Capitan and Starfire, all of which are considered superior.

Golden Slippers: This floribunda is undoubtedly the poorest of the 1962 selections. The bush is very small and so far in Colorado has been a very sparse bloomer. The buds are a brilliant red, orange and gold and are very attractive, but the full-blown orange rose fades badly and is nothing to rave about.

Two roses have been selected as having the necessary qualifications for All-Americas for 1963. Both are hybrid teas. The first one is Royal Highness which is a large shell pink rose with high centered blooms on long stems. This rose is a cross of Peace and Virgo and has many of the characteristics of Peace. A number of reports indicate that the bush is susceptible to mildew. As the rather fragmentary reports received to date are not entirely satisfactory it is suggested that the selection of this rose for Colorado growing be deferred until more complete reports are received.

The second rose selected for 1963 is Tropicana. This beautiful and outstanding fluorescent orange-red hybrid tea is recommended as a must rose for all Colorado gardens. It ranges from 3½ to 4 feet tall and is a vigorous compact bush with fine dark green foliage. It has many good sized blooms which are borne on sturdy stems and which do not fade. The blooms, whether on the plant or cut for the house, last from 6 to 8 days. It is a very disease resistant rose and in the Denver Botanic Gardens where it was surrounded by roses covered with mildew it came through without being affected. This rose seems to have everything a good rose should have and, in my opinion, will crowd Peace for top rating honors.

One other rose which seems to warrant consideration at this time is the hybrid tea South Seas. This attractive coral-pink rose is a good bloomer with double flowers and has petals with good substance which should make it a good exhibition rose. The bush is about 4 feet tall, has excellent dark green foliage and early reports indicate it is disease resistant and should do well in Colorado.

Although many new climbing roses have been introduced in recent years, most of them do not seem to have the hardiness to withstand one of our really tough Colorado winters.

The three most popular climbers for this region still appear to be:
1. Improved Blaze Medium Red
2. New Dawn Light Pink
3. Paul Scarlet Medium Red

The first two are everblooming and normally bloom three times each season, whereas the Paul Scarlet is limited to one burst of blooms in the early summer.

Other climbers that give promise of being able to withstand a moderate Colorado winter include: Spartan, an orange-red; Don Juan, a dark red pillar; Gladiator, a medium red; Doubloon, a medium yellow; and High Noon, a dark yellow.

Regarding all classes of roses in general, my advice to the novice rose grower is to purchase the older recommended varieties and have fewer disappointments. However, for the past 2 years I have been growing, and watching others grow, the hybrid tea rose Tropicana and I am confident this rose will give satisfaction if planted in your yard in 1963.
Mr. OPPE

Joins Our Staff

ON JANUARY 2, 1963, Mr. Joseph W. Oppe joined the staff of the Denver Botanic Gardens as Botanist-Horticulturist. He will edit The Green Thumb magazine and will also assist generally in the work of the Gardens.

Mr. Oppe is a native of Ohio. He has served 4 years in the U. S. Navy. For the past 3 years he was Assistant Superintendent of the Dawes Arboretum in Newark, Ohio.

Mr. Oppe is experienced in both eastern and western botany, having a Bachelor of Science Degree in Botany from Marietta College, Marietta, Ohio, and a Master of Science Degree in Botany from the University of Idaho. He has done additional graduate work toward his doctorate at the University of Pittsburgh.

Joe and his wife, Freda, are living at 5350 East Asbury St. Mrs. Oppe is employed by State Farm Insurance.

Yes, we have a ranch near Dillon where we are building a new home, but we will still operate the Cottonwood Garden Shop another season.

We have a great assortment of rare and unusual plants growing in the nursery and we are getting in from the very best growers some of the nicest trees, shrubs and evergreens that we have ever had. We will still have a very complete assortment of the finest perennials for this area. We will have all the new roses and most of the old from the best growers in the United States. We will still be able to give you the same accurate advice about the proper plant for each situation as we have been doing for the last 30 years.

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Landscaping...

"WHERE TO TURN NEXT" JULIA H. ANDREWS

HELPING A NEW homeowner start planting on his property is not a subject for generalizations. Each home and each personality make it a very specific discussion. Of course, you want to know what you should do. This article will not attempt to tell you how to do it but it will tell you where you may obtain help.

This region has a climate that can be extreme. This past fall was hot and dry, enough to force lilacs into full bud. Then the temperature slid to sub-zero with no intervening time for plant material to prepare itself. Hot days, cold nights, a burning winter sun and alkaline soil are some of the factors that make it difficult for most plant material, not native to this region, to prosper. I am sure you have heard this and are confused. "Where to turn next" is your plea.

If you have bought property in a new area, a nursery salesman probably has knocked on your door. If he represents an out-of-state firm and offers plants at lower prices than any local nursery, be certain the varieties will grow here and are acclimated to our area. For example, there are many varieties of ash trees but only the green ash and white ash have proved their resistance to the extremes of this climate.

Many of the local nurseries send salesmen door-to-door. I am sure they would show you their stock if you wish. Don’t be misled by elaborate guarantees. There is an old maxim that they are only as good as the company that offers them. This is particularly true in sales of plant material.

Some of the nurseries in the Denver area offer planning services with the sale of plant material. They will draw a sketch showing where the plant material is to be located. It will help you to visualize the actual effect and this will help you to know if it is what you desire.

One of the local nursery catalogues might be helpful in identifying the plant material. In the Art and Architecture section of the Denver Public Library are many books and magazines on gardening and growing plant material. Another source is the Horticultural Extension Service, Colorado State University, Fort Collins. An inquiry for their list of publications would be the most convenient way to find their pamphlets on home beautification. The Denver County Agricultural Agent can also help you with specific problems.

As a new homeowner you may want a more complete range of planning and design services, especially if there are difficult problems of terrain or drainage. A qualified landscape architect could serve you best in this capacity. The telephone directory lists members of the American Society of Landscape Architects practicing in the Denver area. An appointment with a landscape architect to discuss his services, how they could be of value to you, and his fees is the normal way to approach this source of help.

I hope these sources of information will help you, the new homeowner, know "where to turn next!"
**Versatile Vegetables**

**Mrs. John Scott**

GARDEN VEGETABLES are every bit as pretty as flowers and more unusual. They are also edible—that is, if some can be saved from your efforts at designing (commonly called flower arranging regardless of the material used).

Vegetables can be used in the same manner as other garden plants, for bedding, framing, accenting and cutting. Because many ornamental vegetables are annuals, they are especially valuable for temporary landscaping effects. The foliage of most vegetables is very attractive. Root-crops, such as beets, carrots, parsnips and turnips, have interesting leaves. Most vegetable foliage is abundant and uniform, but the flowers and fruits are generally small in proportion to the overall plant.

The proportion of your plot that you can use for additional plantings may govern your choice of vegetables. Cucumber, pumpkin, squash and melon are fairly tall and need staking. Okra and eggplant are two of my standbys. Both are attractive in color, form and texture. The okra is upright and the eggplant bushy. The blooms on both are exquisite miniatures.

Colorwise, the red onion is tops for decorative purposes, swags in particular. But onions, whether yellow, brown or white, and some other vegetables can be purchased, saving the garden space for those vegetables which are not mature, or marketable. For foliage and flowers of vegetables you will have to grow your own. The perennial onion varieties that supply us with early spring onions and later form such unusual seed heads are worth raising at home.

Most of these vegetables will have to be grown from seed. Some cannot be obtained locally, but can be ordered from seed catalogs. The hardy ones can generally be planted out in the open early in March, weather permitting. Such early-seeded ones include: onions; root-crops; lettuces, (which make versatile arrangement material); peas, which offer a different form and texture (drip peas like raindrops through a design); spinach and chard, rich textures and different design forms—chard for modern. When danger from frost is minimized, plant okra, beans, corn and the 'vines'.

Plants of cauliflower and eggplant are always available and some of the cabbages, depending upon how practical versus ornamental they are. Any or all of these may be started indoors in flats if preferred.

Some vegetables make nice dried designs. Leaves from broccoli, cabbage, cauliflower and kale dry to warm tans or delicate mauves. Okra, if picked early, is a clear, chartreuse-green. You may have used artichokes, but do buy several sizes for gradation.

You'll discover other surprises. Have fun, and don't eat all the vegetables!
Starting Seeds Indoors

HELEN MARSH ZEINER

Starting seeds indoors can be a very satisfying experience for the person who loves to see things grow. However, it does require space by a sunny window, a cold frame, or a greenhouse and the seedlings must have care. For the person who needs only 6 tomato plants, it is hardly a recommended practice; but for the person who uses large numbers of bedding or vegetable plants, it is well worth the time and trouble involved.

In addition to the pure pleasure of watching the miracle of the green shoot springing from the seemingly dead seed, there are certain practical advantages to starting seeds indoors. If you use many plants, starting them yourself is cheaper than buying the plants. Secondly, in our climate with its late frosts, plants started indoors make it possible to have blooms much earlier than when the seeds are planted directly outdoors.

There are also certain disadvantages, mainly that it is trouble and does require a considerable amount of space in a suitable location.

Seeds are usually started in flats, which are simply shallow boxes made of thin boards. A rather standard and convenient size flat is about 14 inches by 18 inches by 2½ inches deep. However, a flat can be of any shape and the depth may vary to about 4 inches. If you make your own flats, they can be made to fit a window sill or other available space. One can use flat plastic containers in which plants are sometimes sold, or shallow flower pots, or

KEY TO PHOTOS
1. Place newspaper in the bottom of the flat to keep the soil from washing out.
2. Fill the flat with prepared soil.
3. Level the soil.
4. Tamp to firm the soil.
5. Make rows with the edge of a board or a ruler.
7. Cover seed and water with a fine spray.
8. Rows of seedlings ready to be thinned out.
waxed paper containers such as cottage cheese cartons. Almost any shallow container will do—even an old pan, if you will punch a few holes in the bottom for drainage. Plant bands are often used within a flat to permit easy separation of plants. They can be bought from your seedsmen, or you can make your own from waxed paper cartons.

If seeds are started in flats, the seedlings may be transplanted to other containers such as the waxed paper cottage cheese carton or cut-off milk cartons. Plants in these containers can be transplanted into the garden with little disturbance to the roots, since the container is easily peeled away.

After the flat is obtained, the next step is to prepare the soil. A light soil is best. It can be a potting mixture such as you would use for house plants. This may be bought in small sacks or prepared at home from equal parts of loamy soil, peat and sand or vermiculite. It should be screened or well-mixed with the hands to remove all clods. Vermiculite or perlite make good rooting media, but the young seedlings will require feeding about once a week with a weak solution of fertilizer.

Put a piece of newspaper in the bottom of the flat to keep the soil from washing out. Have the soil moist. Fill the flat, then use a small board or a ruler and level the soil. Tamp to firm the soil, but do not pack it. Using the same board or ruler, make shallow rows by pressing the edge of the board into the soil. If the seeds are very small (for example, petunia), make very shallow rows or scatter the seeds. For larger seeds, make deeper rows. Very small seeds should be covered lightly if at all. They may be pressed very lightly into the surface of the soil. Larger seeds are covered to a depth about equal to the diameter of the seed.

Water carefully, using a clothes sprinkler or fine spray. The watering must be gentle in order not to wash the seeds out of place. Label carefully, especially if you plant more than one kind of seed in each flat.

The flats should be kept moist and warm until the seeds have sprouted. Day temperatures of 75-80 degrees F. and night temperatures about 65-70 degrees F. are advisable. To prevent drying out, cover the flat with glass or clear plastic. This usually cuts down evaporation enough so that watering is not necessary until the seedlings appear. There should be some ventilation, so remove the cover a little while each day or prop it up at one edge. Holes may be punched in the plastic cover to allow some ventilation and still reduce water loss.

After the seedlings appear, they should be handled much like house plants and should be allowed to dry out between waterings. The seedlings may need some shade if the window in which they are placed is a hot window. A piece of newspaper serves very well for this purpose.

Once the seedlings are well up, they will need thinning. This must not be neglected or you will have spindly, unhealthy plants. If the number of seedlings makes it feasible, it is a good idea to transplant them to other containers such as the previously mentioned dairy products carton. Plants removed in thinning, if removed with care, may be potted in this way.

Before transplanting into the garden, harden the young plants by putting them outdoors in the sun during the day and bringing them in at night. Start with a very short exposure, and gradually increase the time until they are out all day.

By starting seeds in March, you should have good plants to put out in the garden by the latter part of May. Many annuals can be started in this way. Among those most commonly started indoors are petunias, salvia, verbenas, snapdragons, marigolds and zinnias. For the vegetable garden, you may wish to start tomatoes, peppers, eggplant, cabbage, cauliflower or broccoli.

MAKING COMPOST

MRS. JOHN W. NEWMAN

We tried three methods of composting. The method you use will depend on the size and arrangement of your yard.

If you have a small garden planted in rows, the following method is very successful. Start by digging a trench between two rows. Each day put into the trench the garbage from the house (except fat), and the weeds you have pulled if they have not gone to seed or are not diseased. If you have chickens as we did, put a small fire shovel of droppings on the weeds, cut in with a spade and cover with a few spadefuls of soil, leaving a hole for the next day's garbage. A small amount of bone meal may be added from time to time. The next year alternate the rows so that you plant where the path (and the compost trench) was, and you will be surprised at the growth of your plants.

When we disposed of our chickens and gardened our entire eight lots, we made compost piles. You may prefer this method of composting if you have sufficient space. On the bottom of a rectangle about four by ten feet, put the coarse materials. On these put about six inches of weeds and cut alfalfa if you have it. Any of the legumes are good as they add nitrogen. On this put about two inches of animal droppings (we had access to the droppings of a goat dairy) followed by a layer of soil. Repeat this process until the pile is about five feet high, ending with soil all over the top and sides. Have a small depression in the top of the pile for catching moisture. Make a few holes with an iron rod down through the pile for air. Keep the pile moist but not soggy. In from five to seven weeks it is ready to turn. Put the top and sides in the bottom of a new pile and leave for a short time. Then screen the compost into a wheelbarrow, using the coarse material that did not go through the screen for the bottom of a new compost pile. An activator may be added to the compost to hasten decomposition. Dehydrated barn yard ferti-
lizer can be obtained from feed stores if fresh is not available. You may also add a good commercial fertilizer if you so desire.

As the neighborhood built up we put the compost piles in a loose-walled bin made of cinder blocks. This did not have to be turned as air circulated between the blocks. It took a little longer for the material to be available for the soil but was better looking for the neighbors.

If the last layer is always soil there will be no offensive odor. In the center of the piles the temperature will reach 160°F, destroying all the weed seeds in the compost. However, that does not mean that you will have no weeds in the garden for nature sees to it that you will.

If you so desire, you may add a little ammonium sulphate or ammonium nitrate or commercial fertilizer to the compost piles as you build them—but organic gardeners prefer not to add anything that is not organic in nature. Soils in this area are benefited by the addition of compost or organic material, and the home gardener will find the making of compost a very worthwhile project.

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HAIRY AND OTHER SURFACES

IF YOU HAVE ever tried to describe the hairiness of a leaf you'll wind up in a maze of intricate distinctions, such as woolly-hairy, stiff-hairy, silky, felty, short-haired and what not?

Botanists have gone through the same difficulty; by this time they have adopted a number of botanical names to help out. The following names are examples:

- **Prunus tomentosa** has leaves densely clothed with woolly or cottony hairs.
- **Sambucus pubens** is hairy elder.
- **Chrysopsis villosa** — clothed with long, soft hairs.
- **Phacelia sericea** — clothed with satiny pubescence.

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***Hairy and Other Surfaces***

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Things To Do In

MARCH

HELEN MARSH ZEINER

There will be warm days in March when you can satisfy that urge for gardening by improving the soil. Our soils are lacking in humus, so that the addition of organic matter such as peat, manure, compost or leaf mold is beneficial. This is true whether the soil is clay or sand. The organic matter can be spread on the surface, spaded in as weather permits and left to mellow until planting time. If you are planting a new lawn, use 2 yards of manure per 1000 square feet, plow or spade in to a depth of 8-10 inches and mix well. Rough grade now, but wait until the middle of April to seed. In flower beds or vegetable gardens, cover the soil with 1-2 inches of organic matter and spade in, mixing well.

Clean-up and remove trash, but don't remove mulches yet. Don't be fooled by the first warm days — March is a changeable month and those mulches will still be needed.

Transplanting of shrubs and trees can be done whenever the ground is workable. Slow-growing trees such as birch, honeylocust, hackberry or hawthorn should be transplanted just before they break into leaf. Evergreens in a ball of earth can be moved now.

Bare-root nursery stock may be planted towards the end of the month. Be sure to dig a large hole — roots should be spread out and not crowded. Dig the hole larger than you will actually need, mix peat or compost with some of the soil you removed and use this as a back-fill.

Rhubarb and asparagus should be transplanted now. Bleeding hearts and peonies should be moved now while they are dormant.

St. Patrick's day is the traditional time to plant sweet peas, but a few days before or after is just as suitable a planting time. They should be planted about 3 inches deep in a well-prepared bed. Garden peas can be planted late in March.

If you start seeds of zinnias, marigolds, cosmos or scabiosa now they will be ready to set out Memorial Day. Tomatoes and peppers can be started now. Seeds may be planted in flats in the house or in cold frames. (See Starting Seeds Indoors, page 71.)

If you did not arrange earlier for dormant spray for scale on elms and other trees, it is still not too late. Evergreens should also be checked for scale, as well as shrubs such as the lilac and cotoneaster.

Nursery stock may arrive when the weather is not suitable for planting, especially if it is coming from another section of the country. If possible, heel-in the plants in unfrozen soil south of a building. If this is not possible, unwrap the tops but keep the roots covered and moist. Keep in a cool place. This should keep the plants until weather permits planting.

Remember to refer to back issues of The Green Thumb for many fine articles of seasonal interest.

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