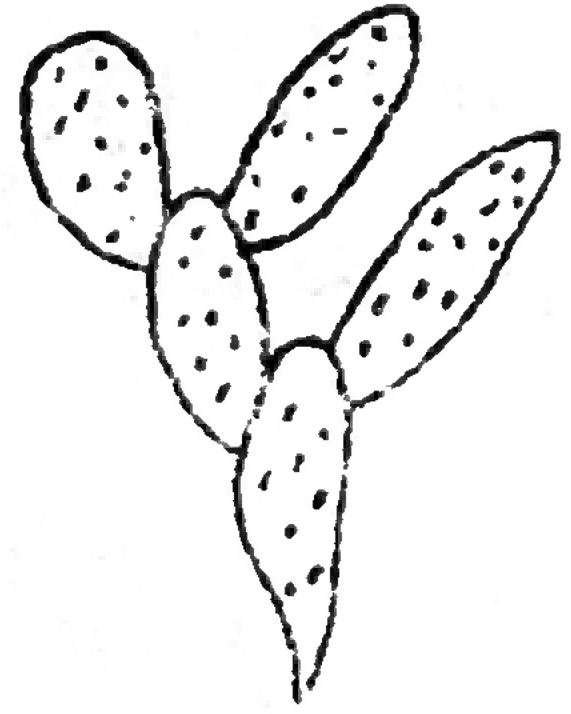


CACTOS

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SUCCULENTAS



OFFICIAL PUBLICATION OF THE SAN DIEGO CACTUS AND SUCCULENT SOCIETY

May, 1966

Vol. 2, No. 5

MRS. JOYCE TATE TO SPEAK

MAY MEETING

San Diego Floral Association Building at 2:00 p.m., Saturday, May 7.

Mrs. Joyce Tate will speak on "Uses of Cacti and the Other Succulents Around the World."

Tickets will be on sale 4 for \$1.00 for the Plant Sale Table.

Remember to bring rare or unusual plants or plants in bloom to display on the Bragging Table. Last month Mr. and Mrs. Nelson brought two Kalanchoes in Brilliant bloom, and Mrs. Lewis brought a driftwood planter filled with several Bromeliads.

Miss Kathy Kennett has kindly offered to be hostess this month and has promised something special in honor of our president "Doc" Vaughan's eightieth birthday. Let's have a big turnout for this occasion!

LAST MEETING

Mr. Jack Ward spoke on "Basket Culture," giving many timely tips on how to grow beautiful and unusual hanging baskets, in hopes that we will have more contributors for the Hanging Basket display at the Del Mar Fair.

JUNE MEETING

Two films of general interest are planned: "Water--Fountain of Life" and "Weather--Breath of Life." Also botanical films have been ordered, the titles of which are not yet available.

We feel especially privileged in having Mrs. Joyce Tate speak at our May meeting on "Uses of Cacti and the Other Succulents Around the World." This subject became of great interest to her when she realized that many of the "Use" materials are no longer available, and others will soon be gone.

Mrs. Tate has had a life-long interest in California native plants and studied botany at UCLA.

She is a charter member of both the Los Angeles Cactus & Succulent Society and the Howard E. Gates Memorial Cactus & Succulent Society. In the latter she has served as President and also Program Chairman, and presently is Tour Chairman and Affiliate Director.

Mrs. Tate is a member of the Board of Directors of the Cactus & Succulent Society of America Inc. and also serves as the Show Committee Chairman.

She is presently busily occupied with the Riverside Community Flower Show, April 23-24. As the Show Committee Chairman of the National Society, she is deeply engrossed in planning for the National Cactus & Succulent Show at the Los Angeles State & County Arboretum, Arcadia, June 16-19.

MINUTES

SAN DIEGO CACTUS & SUCCULENT SOCIETY

April 2, 1966

The meeting was called to order by the president, and the minutes of the previous meeting were read and approved. Two guests were welcomed.

Treasurer's report: \$425. bank balance, \$38.59 cash on hand, giving a total of \$463.59.

Committee reports: Mr. Vaughan, Chairman of the Cactus Garden Rejuvenation Committee, reported that Balboa Park will give us all the weed killer necessary to get the Cactus Garden in shape. He has removed all the tools and garden hoses from the equipment shed at the park because there were too many keys.

Mr. Ward, Chairman of the Fair Committee, reported that we will enter four displays this year, the same as last year. Mr. Stalsonburg has volunteered to be in charge of the Cactus Garden display. Mrs. Arnold suggested that each member bring his exhibition plants to the Floral Building or a central location so that they could be taken by truck to the fairgrounds. All pots must have owner's names on them. It was suggested that women should volunteer as chairmen of the displays because of their eye for color and arrangement. Mr. Crane gave many points for what makes a good exhibit. Mr. Stalsonburg agreed that the chairmen of the respective displays should make the designs and layouts and then ask members for particular specimens.

Mr. Benbow brought to the Society's attention that member Mrs. Means was 99 on April 1. The president requested that a card be sent to her.

Mrs. Hoffman asked for hostesses to make refreshments for the coming months.

The question of whether to discontinue the plant sale was brought up because only one-fourth of our membership participates. Mrs. Arnold wished that they be continued, but that we should have them less often. Mr. Nelson was in favor of having them every month, with fewer and larger plants offered for sale. Suggested price for tickets was 4 for \$1.00 instead of the previous 7 for \$1.00.

Mrs. Hegyi suggested that the Society hold a plant auction. A list would be circulated at the meeting a month before the sale was to be held in order that members could indicate plants desired. The purchasing committee would buy only fine specimens. Mrs. Hegyi also described the silent auction where members are given one-half hour to place bids on paper for certain plants desired. Plant would go to highest bidder. Mr. Stalsonburg volunteered to procure plants for the sale for the next few months.

President Vaughan read a eulogy for Dr. Ralph Roberts, who passed away March 18. Mrs. Nelson made a motion that \$25 donation be sent to the Heart Fund in his name. Mr. Stevenson seconded; motion passed. Mrs. Hoffman had sent flowers previously in the name of the Society, which had been acknowledged by the family.

The meeting was turned over to Mr. Ward who spoke on "Basket Culture." The plant sale followed.

Delicious refreshments in the Easter mood were baked by Mrs. Merritt.

Shirley Ward
Temporary Secretary

APPRAISAL OF A FAILURE

For almost a year now, the Society has had permission of Balboa Park authorities to maintain and rejuvenate the Balboa Park Cactus Desert Garden, located behind (west) of the Junior Theater. Yet, the garden looks almost as neglected and run down as it did at this time last year.

Last fall we had rather good response to the first two work parties but the last two work parties (December and February) were failures (three members in Dec., four in Feb.). From lack of interest on the part of members, it must be concluded that work parties will not achieve our goal of a maintained garden.

It is true that the garden is in one of the poorest locations in Balboa Park, hemmed between the back of a building and a freeway at the bottom of a hill, with its only entrance an alley. Years ago, the park personnel wrote off the garden as not worth the effort of maintenance because of its remoteness. It is so hidden from sight that one must stumble onto it accidentally to know that it is there. (When I tried to find it a few years ago, not a single person who worked in the museums or other places could tell me where it was.) Also, its location behind the Junior Theater, where many children loiter, gives unappreciative juveniles opportunity to throw rocks, puncture plants with sticks, and create other damage. The best location for the garden would be downhill from the Kate Sessions Aloe-Agave Garden off Park Boulevard where it could be seen and protected.

Ruling aside the possibility of moving the garden to a place where it could at least be seen by passing motorists, there is only one thing we can do to bring it to public notice: erect signs. Directional signs could be placed in front of the Children's Theater and the Cafeteria Building to call attention to the existence and location of the garden. However, considering the present condition of walks, plants and beds, this would be embarrassing.

A Modest Proposal

Because the work-party-and-voluntary-donation-of-plants system has broken down, an alternate plan might be more successful. It would be expecting too much for it to be completely successful, but fractional success is better than none.

Under the new plan, a member or his family would volunteer to adopt a section of the garden (see following map) to water, weed, and build up. There would be no regular work parties, but each member who adopts a plot would pledge to maintain it at least monthly when time is most convenient.

You would adopt a plot as yours; it would give you a feeling of personal responsibility and pride to see that it is cared for. You would bring your surplus plants to build up your section; if you do not have surplus plants, other members may be able to help you. Go down to the garden and take a good look. If you have a guilty conscience for its sad condition, come to the next meeting to reserve a section for your personal care.

There are 21 sections in the garden, ranging in size from approximately 15x15 to 10x130 feet. We now have around 80 members, which is more than enough to achieve our goal. Please do not say "Let someone else do it," but volunteer to become an active contributing member of your Society.

(continued on next page)

APPRAISAL OF A FAILURE (continued from previous page)

Some Suggestions

The pathways in the garden are badly eroded. If Park Maintenance will not supply crushed rock or gravel, the club should pay for a truck load. Members could spread the gravel in the pathways around their adopted sections.

Weeds and grasses are a year-around problem. Doc Vaughan has indicated that Bob Nelson will give us weed killers from the park supply. The sooner we start using them, the better. We could cut down on the great amount of weeding now required by covering the bare ground with medium to large size rocks. Weeds can grow only between the rocks, making it easier to eliminate them. Perhaps the society should also consider paying for a truck load of rocks.

Watering, in order to be effective in the hard clay soil, must be by rotating sprinkler for at least two to three hours at a time. Just wetting the surface is worse than not watering at all because it causes the tender surface roots to turn upward and die.

Eventually, we should try to adopt some uniform system of labeling plants by scientific name. Such labels ~~must~~ be vandal proof; one such type might be concrete blocks buried in the soil with names stenciled in black paint.

When you trim or thin out Opuntias, do not put healthy joints in the rubbish, but throw them down the hillside, or plant them down the hillside where many will root, forming a fire break for protection of the garden.

Because the park cannot supply safe storage for tools and water hoses, members must bring their own. Also, because faucets are not supplied with handles, you must bring a faucet key when you intend to water.

Be on the lookout for plants which may be added to the garden. This is especially true of Balboa Park itself. With clearing of developed areas for new streets and parking lots, many fine plants are hacked to pieces or bulldozed away. and

One may presently see many directional/identification signs around Balboa Park in the form of carved letters in redwood. Expecting the park to supply the signs directing the public to the Cactus-Desert Garden is probably expecting too much. We should have two signs engraved at our own Society expense and place them where we feel they will be seen. It should not require a great amount of red tape to secure permission to place the signs.

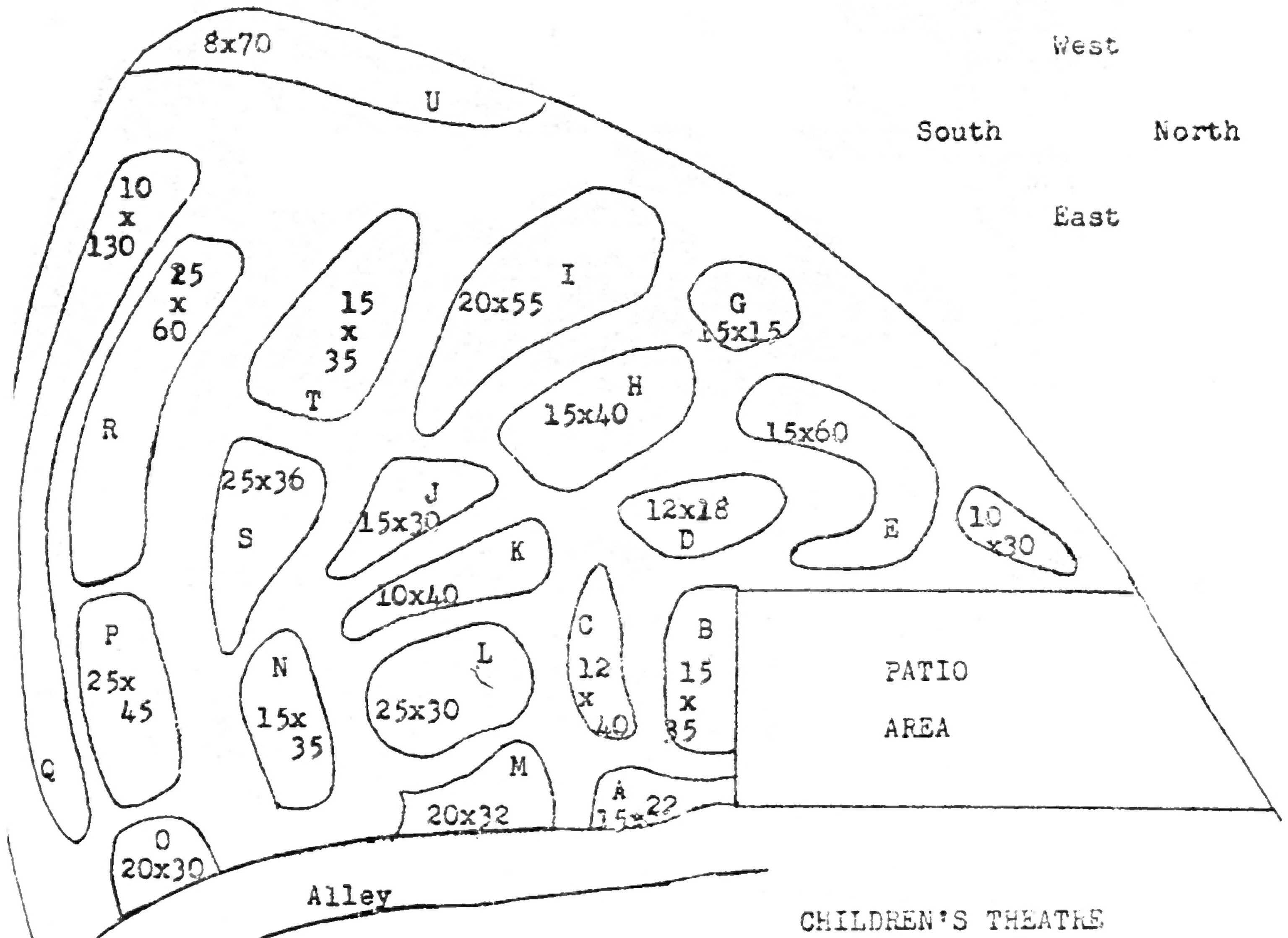
Look for good landscaping ideas which might be applied to the section you adopt. It would be impossible to move many of the larger plants, but many of the smaller plants may be moved around to give a more pleasing arrangement.

Try to stay away from tender succulents for your sections unless you intend to water weekly; most of them will die. Also try to keep out Agaves because there are already too many Agaves in the garden. Desired plants are Cacti, Euphorbias, Aloes, Yuccas and rarer xerophytic plants which are not too woody or too tender. Small cacti are likely to be stolen; many of the smaller plants have been lifted in the last year. If the plant is spiny enough to require being moved with special slings or is large enough to require considerable effort on the part of a thief it probably is safe. Do not be afraid of massing certain types of plants if you have them available.

A rough map of the garden follows on the next page. Use it for selecting your section.

ROUGH MAP OF DESERT GARDEN, BALBOA PARK

(The garden slopes downhill, from east and northeast to west and southwest; rough estimates of sizes appear in sections.)



Which section is yours? First come, first choice.
See Mr. Ward to reserve your section.

- | | | | |
|-----------|-------|------------|-------|
| A (15x22) | _____ | L (25x30) | _____ |
| B (15x35) | _____ | M (20x30) | _____ |
| C (12x40) | _____ | N (15x35) | _____ |
| D (12x18) | _____ | O (20x30) | _____ |
| E (15x60) | _____ | P (25x45) | _____ |
| F (10x30) | _____ | Q (10x130) | _____ |
| G (15x15) | _____ | R (25x60) | _____ |
| H (15x40) | _____ | S (25x36) | _____ |
| I (20x55) | _____ | T (15x35) | _____ |
| J (15x30) | _____ | U (8x70) | _____ |
| K (10x40) | _____ | | |

ODDS AND ENDS

On Saturday, May 7, the day of our Society meeting, there will be a dedication and tour of the Japanese Garden at the County Administration center at 10:00 a.m.

Since our Society is an associate member of the San Diego Floral Association, we should try to support that organization in its activities. Most of the public flower shows promoted by the Floral Association raise funds to make up for deficits in the publication of California Garden Magazine which ran a loss of approximately \$300 per issue last year. Your personal subscription to the magazine and your promotion of it among your neighbors and friends will contribute to building up subscriptions to a paying level.

California Garden Magazine has been running a series of articles by Mitchell Beauchamp of the cacti of San Diego County.

Every year, during off-season Mr. Robert Lamp has the botanical display area at the County Fair grounds torn down and reconstructed along new patterns to give the area new perspective.

A recent sad sight was the clearing of a former part of the Kate Sessions Aloe-Agave Garden for expanded parking. Two 25-foot Euphorbia tirucalli trees, at least 40 years old, were bulldozed away as weeds. Other old plants torn out by tractor blade were a number of 10 to 15 foot specimens of Portulacaria afra, which also would have made good additions to the desert garden.

Colorado Cactophiles now has approximately 280 members for this year. The Colorado Society has just purchased a new A.B. Dick 525-H automatic mimeograph machine for printing Cactophile's Cactivities, and is also planning to purchase an electric typewriter.

NEW MEMBERS SINCE APRIL 1 TO BE ADDED TO THE MEMBERSHIP LIST

Mrs. Anna Gray
4669 39th Street
San Diego, Calif. 92116
281-5011

Mrs. Lillian Hinrichs
6715 Vigo Drive
La Mesa, Calif. 92041
466-4012

Mrs. Ione Hubner
231 W. Park Avenue
El Cajon, Calif. 92021
444-3439

Mr. G. Stanley
3700 Cabrillo St., Apt. 303
San Francisco, Calif. 94121

A THANK YOU . . .

The Society wishes to express its gratitude to Mrs. Bernice Sterling of Imperial Beach for the large and beautiful plants that she donated from her collection to the Balboa Cactus Garden. All have been planted at the park except for four especially fine specimens that will be included in our displays at the Del Mar Fair.

The following are the plants donated:

Aloe brevifolia
Aloe distans
Crassula argentea variegata
Dyckia sulphurea
Euphorbia grandidens
Euphorbia caerulescens
Phormium tenax
Opuntia vulgaris variegata
Opuntia schickendantzii
Opuntia exaltata
Opuntia mammillata
Opuntia elata
Cereus peruvianus
Cereus peruvianus monstrosus
Cereus jamacaru
Cereus dayami
Eriocereus martinii
Escontria chiotilla (?)
Lemaireocereus marginatus
Trichocereus spachianus
Nyctocereus serpentinus
Myrtillocactus cochal

BASKET CULTURE

(Based on a presentation by J. Ward at the April 2, 1966, meeting of the SDC&SS.)

Basket gardening is basically pot gardening. Those who have done most of their gardening in pots do not have to change practices.

However, there are some exceptions to rules followed for pots on the ground. Baskets take more water and more fertilizer. In addition, baskets come in other media than clay; these include wood, wire-moss, and plastic.

USES OF BASKETS

Basket culture is almost essential for trailing plants. Could Sedum morganianum, Aporocactus flagelliformis or Rhipsalis paradoxa be shown to greater advantage by any other method? Many other plants, which do not ordinarily trail, take on a special glamor and beauty when adapted to baskets. Among these are Opuntia serpentina, Sedum adolphii and Portulacaria afra. Actually, almost any species can be placed in a basket, and, with certain modifications from the normal planting manner, be as beautiful as most of the plants one usually finds suspended in the air. For instance, my long range plans include an attempt to adapt a single species of Mammillaria to an inverted wire basket, making it appear as a mound suspended in air.

When one has a limited space, more planting room can be gained by using baskets. This is especially true of patio areas, porches and planter beds beside a house. If you wish to build a wood-framework overhang next to garden walls or in a corner of the yard you may also gain additional planting space.

CONTAINERS

Commercial basket containers are rather stereotyped. One may buy the wire basket, which must be lined with sphagnum moss, or the redwood or cedar slat basket, or the solid redwood or cedar basket. Occasionally one may find unusual or exotic baskets made from clay or plastic. Pieces of driftwood with deep cavities are either hard to find or expensive to buy. Other exotic types to be observed are sections of palm trunk and sections of whole tree trunk cored-out.

The cheapest basket is just a plain clay pot. Those trailing plants such as Crassula perforata and Plectranthus purpuratus (Charlie Plant), which completely cover the container do not need more expensive containers than cheap clay pots.

Wire baskets dry out most quickly, but this may be partly alleviated if one puts a clay or plastic saucer between the sphagnum moss in the bottom and the potting mix. The advantages of a wire basket are that one may plant suckering plants or plant through the framework spaces for a dense, lush look.

Slat baskets may be used in two different ways. One may line them with sphagnum moss and plant them as solid containers, or pots may be set in them. The latter method is advantageous when one wishes to change his basket displays without a great amount of work. If slat baskets are used as permanent containers, clay saucers must be placed in the bottom to allow a little water reserve for plants.

Solid wood boxes are best for moisture retention and serve best for most of the epiphytic cacti and almost all the succulents.

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page 7

BASKET CULTURE (continued from previous page)

Without doubt, this is the best type container for ferns, fuschias, begonias, etc. which need maximum moisture and acid soil.

Clay pots dry out more rapidly than solid wood but less rapidly than slat or wire baskets, and are suitable for all plants except the most tender.

PLANTING MIX

Inasmuch as hanging containers dry out more quickly than if they were placed on the ground, certain precautions must be taken. As a rule, the planting mix should be well drained but richer in leaf mold and peat moss than for most ground containers. Recently, I have discovered that a proportion of around $3/4$ commercial planting mix and $1/4$ builders-sand works best for cacti and succulents. For non-cacti and non-succulents, use 100 per cent commercial planting mix.

Before putting planting mix in a pot or solid wooden container, fill with broken pots or crushed rock to a depth of two to three inches; this helps keep drainage open at the bottom.

As a general rule, garden soils do not fit the requirements of basket culture. Sandy soil gives good drainage but dries out too quickly and is leached of nutrients too quickly. Garden loam usually does not retain enough moisture. Clay soil does not give adequate drainage and retains too many alkaline and fertilizer salts. In addition, once that clay soil dries out, it becomes very difficult for water to penetrate it. Drying out also causes it to shrink from the sides of the pot, allowing the water to run out quickly without penetrating the soil itself.

If you wish to use soil in your basket culture, a good proportion would be 2 parts garden loam, 1 part coarse sand, 2 parts peat moss, 2 parts leaf mold and 1 part steer manure.

It is best to have your planting mix slightly damp but not wet. Some authorities also recommend soaking your containers in water before starting to plant, but I have not seen any advantage gained by this practice.

CARE

Hanging containers are exposed on all sides, causing them to dry out faster than in any other position. During warm weather, it may be necessary to water almost daily, and with tender non-succulents, twice daily or thrice daily. Try to keep your baskets out of strong wind or constant drafts. Most baskets also do better in filtered sunlight rather than direct sun, even if they are normally full-sun plants.

During one warm spell, when the temperature went into the 90's here in Chula Vista, our holly fern (Cyrtomium falcatum) partly wilted in spite of the fact that we had it shielded from the dry warm wind, completely in the shade, and watered it almost hourly. We saved it only by taking it down and placing it in a bucket of water. Fuchsias and Begonias require the same intense watering when weather is very warm.

Watering must be sufficient to allow drainage (drip). If you are not getting drip or are not watering enough to allow drip, you have insufficient drainage or are not watering properly. This requires that you place baskets over a planter bed or arrange other suitable drainage so as not to stain patio floors or create a mess. Brick laid without mortar makes the best patio floor where

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BASKET CULTURE (continued from previous page)

basket drip is expected. Drip is important to prevent the dangerous build-up of salts from alkaline tap water and fertilizers.

Frequent watering, although necessary, leads to rapid leaching of the mineral content of the planting medium. This requires frequent applications of liquid fertilizer to keep the plants healthy and growing. If one specializes in just ferns, or fuschias, or begonias, special liquid fertilizers may be purchased at nurseries which specialize in those plants. If one has a non-specialized basket collection, it is best to find an all-purpose liquid fertilizer. We have used fish-oil fertilizer, different brands, with good success. During the growing season, usually spring and summer, one should fertilize at least once a week. When plants are dormant, or semi-dormant, fertilizing should take place at least every three or four weeks. With the very tender plants which require watering twice daily, fertilizing twice weekly would not be too frequent.

Many cacti and succulents, because they have built-in water storage, may go several days to a week without water, during warmest weather, without adverse reaction, but if you want to keep them in top condition and growing it pays to water frequently.

If you go away for a summer vacation, you should take down your tenderest plants, put them completely in the shade, and place them in buckets of water, if possible. If not possible, place a wet mulch of peat moss or oak-leaf mold around them.

Most cacti and succulents usually do not require such intensive care, but the ones which might suffer from a week or several weeks without water, should be taken down and placed on the ground, preferably in the shade. All baskets should be thoroughly watered or soaked after taking them down and placing them in the protected location.

To look their best, basket plants need constant grooming. Clip or pinch off dead leaves, exposed stems, flower stalks, etc. When a basket plant becomes woody, such as Lotus berthelotii (in one season), it is best to take cuttings and start over, or to discard the old plant entirely and buy new ones.

Most basket plants become completely root bound in one to two years. At least every two years, it is best to start with new plants or cuttings, or to take the old plants, remove most of the roots, and repot in fresh mix. Some of the cacti are exceptions to this rule, but the bigger the plant, the more food and water it will require if it is to stay healthy and growing.

HANGERS

Do not make the mistake of trying to economize through the use of cheap wire to hang your baskets. All it takes is a broken wire to spill and break tender plants or to damage plants growing beneath the basket. Rust-resistant chains, from one to three feet in length, suspended from lag screw hooks make the best support. Chain costs from 8 cents to more than 1 dollar per foot, depending upon the metal, size and quality.

BASKET PLANTS

Inasmuch as cacti and succulents are of greatest interest to members of this society, the following list concentrates on such plants. I have tried to indicate full sun (Sun) or filtered sun

(Continued on next page)

BASKET CULTURE (continued from previous page)

(Filtered). You may find the list too exhaustive or too incomplete, depending upon your knowledge and experience with baskets. I have chosen to separate species by family.

PLANTS ADAPTABLE TO BASKETS

AIZOACEAE (Mesembryanthemas)

- Aptenia cordifolia (Sun or Filtered: any container suitable)
- Carpobrotus edulis (ditto)
- Delosperma hirtum (Sun or Filtered: wire container best)
- Delosperma sutherlandii (ditto)
- Delosperma echinatum (ditto)
- Drosanthemum floribundum (ditto)
- Drosanthemum speciosum (ditto)
- Dorotheanthus belliformis (ditto)
- Erepsia inclaudentis (ditto)
- Lampranthus aureus (ditto)
- Lampranthus multiradiatus (ditto)
- Lampranthus emarginatus (ditto)
- Lampranthus tricolor (ditto)
- Oscularia deltoides (Sun: any container suitable)
- Trichodiadema mirabile (Sun or filtered: any container)

AGAVACEAE:

- Agave angustifolia marginata (sun: broad shallow clay planter)
- Agave echinoideus (ditto)
- Agave leopoldii (ditto)
- Agave striata (ditto)
- Agave stricta (ditto)
- Agave vestita (ditto)

S

ASCLEPIDACEAE (milkweed family)

- Ceropegia radicans, C. sandersonii, C. woodii, C. debilis,
C. cafferorum, C. barkleyi, C. haygarthii (Filtered: any cont.)
- Dischidia platyphylla (Filtered: any container)
- Dischidia rafflesiana (ditto)
- Hoya carnosa, H. globulosa, H. imperialis, H. longifolia,
H. purpureo-fusca, H. sikkimensis (filtered: any container)
- Hoya darwinii

BROMELIACEAE:

- Abromeitella brevifolia (Filtered: wire basket best)
- Abromeitella chlorantha (ditto)
- Aechmea penduliflora (Filtered: small, shallow container)
- Aechmea nidularoides (Filtered: shallow, broad container)
- Ananas bracteatus striatus (Sun: wood slat basket)
- Dyckia fosteriana (Sun: any container)
- Dyckia longipetala (Sun: wire basket, massed)
- Dyckia rariflora (ditto)
- Hechtia glomerata (Sun: small wood container)
- Guzmania lingulata minor (Filtered: small wood basket)
- Guzmania zahnii (ditto)
- Orthophytum naviodes (Filtered: small wood basket)
- Ochagavia carnea (ditto)
- Pitcairnia heterophylla (ditto)
- Puya berteroniana (Sun: large basket)
- Puya chilensis (ditto)

BASKET CULTURE (continued from previous page)

BROMELIACEAE:

- Tillandsia utriculata (Filtered: large basket)
- Tillandsia useoides (Filtered: any basket)
- Tillandsia aeranthos (ditto)
- Tillandsia punctutata (Filtered: small wood basket)
- Tillandsia compressa (ditto)
- Tillandsia fasciculata (ditto)
- Tillandsia stricta, T. karwinskyana (Filtered: wire bask., massed)
- Tillandsia strapocophyla, T. lepidosepala, T. valenzuelana,
T. plumosa (Filtered: small wood basket)
- Tillandsia araujei, T. tricolor, T. balbisiana (Filt.: any cont.)

CACTACEAE:

- Opuntia Tribe:
 - Opuntia alcahes, O. schickendantzii, O. serpentina, O. vestita,
O. subulata (Sun: massed in wire basket)
- Cereus Tribe:
 - Acanthorhopsalis (all species) (Filtered: any container)
 - Aporocactus flagelliformis (Sun: any container)
 - Cryptocereus anthonyanus (Filtered: any container)
 - Deamia testudo (ditto)
 - X Epiphyllopsis (all species) (ditto)
 - Epiphyllum (all species) (ditto)
 - Erdisia maxima (ditto)
 - Harrisia tortuosa, H. Martinii (ditto)
 - Heliocereus speciosus (ditto)
 - Hylocereus undatus, H. lemairei (Sun or Filtered: any container)
 - Hattiora (all species) (Filtered: any container)
 - Lepismium (all species) (ditto)
 - Nopalxochia (all species) (ditto)
 - Nyctocereus serpentinus (ditto)
 - Pseudorhopsalis (all species) (ditto)
 - Rhopsalis (all species) (ditto)
 - Rhopsalidopsis (all species) (ditto)
 - Erythrorhopsalis (all species) (ditto)
 - Schlumbergera (all species) (ditto)
 - Selenicereus wercklei (ditto)
 - Selenicereus hamatus (ditto)
 - Selenicereus vagans (ditto)
 - Selenicereus urbanianus, S. grandiflorus, S. loeckmanni
S. macdonaldiae (Filtered: any container)
 - Werckleocereus tonduzii (Filtered: any container)
 - Weberocereus tunilla (ditto)
 - Zygocactus (all species) (ditto)

COMMELINACEAE (Semi-succulent species)

- Callisia elegans (Filtered: any container)
- Callisia fragrans (Sun or Filtered: any container)
- Cyanotis somaliensis, C. kewensis (ditto)
- Dichorisandra reginae, D. siebertii, D. thyrsiflora variegata
(Sun or Filtered: any container)
- Commelina latifolia, C. coelestis, C. communis (ditto)
- Geogenanthus undatus (Filtered: any container)
- Setcreasea purpurea, S. pallida (ditto)

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BASKET CULTURE (continued from previous page)

Tradescantia albiflora, *T. blossfeldiana*, *T. fluminensis*,
T. navicularis, *T. sillamontana* (Filtered: any container)
Tripogandra multiflora (ditto)
Zebrina pendula, *Z. purpusii* (ditto)

COMPOSITAE (Daisy-Sunflower-Aster Family)

Cirsium daicanthum ("Fishbone Thistle") (Sun: small container)
Othonna crassifolia (Sun or Filtered: Small wood container)
Senecio articulatus, *S. barbertonensis*, *S. herreianus*, *S. pendula*,
S. petraeus, *S. macroglossus variegatus*, *S. repens*, *S. spuculosus*
(Sun or Filtered: Most appear best in wire baskets, massed)

CRASSULACEAE:

Aeonium caespitosum, *A. decorum*, *A. domesticum*, *A. haworthii*
(Sun or Filtered: Best when planted through all openings in
wire basket)
Adromischus bolusii, *A. rotundifolius* (Filtered: has long
trailing flower stalk with trumpet shaped flowers; is best
when planted through mesh of wire basket.)
Aichyrson domesticum variegatum (Filtered: any container)
Cotyledon gracilis, *C. ladi-smithiensis* (Filtered: any container
but best in wire planted through mesh.)
Crassula deltoidea, *C. justii-corderoyi*, *C. lycopodiodes*,
C. marginatus minuta, *C. punctulata*, *C. radicans*, *C. rupestris*,
C. pseudolycopodiodes, *C. marniariana*, *C. perforata*, *C. perfosa*,
C. rogersii, *C. socialis* (Sun or Filtered: Any container, but
most will look better when massed in wire mesh basket.)
Graptopetalum paraguayensis (Sun or Filtered: any container)
Kalanchoe manginii, *K. scandens*, *K. uniflorum* (Sun or Filtered:
Look best in wire basket, massed.)
Sedum adolphii, *S. bellum*, *S. brevifolium*, *S. dasyphyllum*,
S. hirsutum, *S. hispanicum*, *S. lineare variegatum*, *S. morgani-*
anum, *S. nutans*, *S. rubrotinctum*, *S. sieboldii*, *S. sieboldii*
variety variegatus, *S. stahlii*, *S. pachyphyllum*, *S. treleasii*,
S. ternatum, *S. wienbergii*, *S. winchleri* (Sun or Filtered: Most
look best when massed through mesh of wire basket.)

EUPHORBIACEAE:

Euphorbia bergeri ("caput-medusae"), *E. caput-medusae*,
E. esculenta, *E. inermis*, *S. marlothii*, *E. myrsinites*, *E. milii*,
E. pundula, *E. polychroma*, *E. tuberculata* (Sun: best in small
solid wood containers)

GESNERIACEAE:

Columnnea allenii, *Columnnea stavenger* (Filtered: any container)
Codonanthe crassifolia (ditto)

GNETACEAE:

Wellwitschia mirabilis (Sun: any container)

LEGUMINOSAE:

Lotus berthelotii (Sun: any container; is not a succulent)
(continued on next page)

BASKET CULTURE (continued from previous page)

LILIACEAE:

- Chlorophytum comosum (Sun: any container)
- Dasyilirion glaucophyllum (Sun: any container)
- Drimiopsis kirkii (Sun: any container)
- Gasteria caespitosa (Sun: wire container)
- Ornithogalum caudatum ("False Sea Onion") (Sun or Filtered: any container)
- Urginea maritima ("Sea Onion") (Sun or Filtered: any basket)

PIPERACEAE:

- Peperomia species (Filtered any container)
- Piper species (ditto)

PORTULACACEAE:

- Portulacaria afra (Sun or Filtered: massed in wire basket through mesh)
- Anacampseros filamentosa (Filtered: small wood container)

RHAMNACEAE:

- Colletia cruciata (Sun or Filtered: wire basket, massed)

URTICACEAE:

- Pellionia sp. 'Argentea' (Filtered: any container)
- Pilea depressa (Filtered: any container)

VITACEAE:

- Cissus quadrangularis (Filtered: wire basket, massed through mesh)

FAIR AND DISPLAY REPORT

This is the time of year to start giving your display plants intense care and grooming. Start watering at least twice weekly, and fertilizing at least once weekly. Take off woody growth and dead leaves, and pinch back flower buds on succulents to encourage foliage growth.

NATIONAL SHOW

As reported previously, the Cactus and Succulent Society of America is sponsoring a national show at the Los Angeles County Arboretum, Arcadia, Calif., June 17 through 19. Even if members do not enter displays, it will be well worth the trip to see the show.

The Mission Valley Center Flower and Garden Show, May 26-28, and the Southern California Exposition (San Diego County Fair) June 24-July 4, will keep the few activists in the Society too busy to enter a club exhibit at the national show, but it is hoped individual members will try to put forth the effort to display at the national.

Many members are under the impression that a big display of plants is necessary to enter at Arcadia. On the contrary, one may enter a single species in 20 different categories of cacti

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FAIR AND DISPLAY REPORT (continued from previous page)

and a single species in 20 different categories of succulents, as well as plant containers, baskets, photographs, oil paintings, watercolors, needlecraft, and other art.

One may place entries Thursday, June 16, from 5 p.m. to midnight, and Friday, June 17, from 8 a.m. to 9:30 a.m. Judging takes place from 10:00 a.m. to 1:00 p.m., Friday, June 17. Exhibits may be removed after 5:00 p.m. on Sunday and before 12 noon, Monday, June 20.

If you have an especially nice cactus specimen or succulent specimen, please try to enter. All reservations must be sent by June 3 to Mrs. Murray Skinner, Affiliate Chairman, 339 E. El Segundo Blvd., Los Angeles, California 90061 or Mrs. Joyce L. Tate, Show Chairman, 11845 Hubbard St., Sunnymead, California 92388.

MISSION VALLEY CENTER FLOWER AND GARDEN SHOW

This year, Mr. Robert Lamp, Feature Displays Chairman, has asked the Society to enter a Basket-Succulent display at the Show. Mr. Hardin is entering a cactus display, and to obtain greater variety Mr. Lamp did not want the Society to enter a duplicate category.

All baskets must be cacti and/or succulents, and all ground level display plants must be succulents other than cacti. We will need 10 to 12 baskets, most of which will be supplied by the Ward's, but we need large showy, low growing, succulents for ground level. We are also in need of a basket of *Sedum morganianum* for both the Mission Valley Show and the San Diego County Fair.

Entries must be put in place from 6:00 to 10:00 p.m. Wednesday, May 25, and 7:00 to 10:00 a.m. Thursday, May 26. Displays may be removed after 6:00 p.m., May 28, and before 12:00 noon Sunday, May 29.

If you can furnish plants or be of help in putting up the display, contact Mr. Jack Ward at the next Society meeting, or telephone 420-5513.

SOUTHERN CALIFORNIA EXPOSITION

(San Diego County Fair)

The Society has entered four exhibits this year: Cactus Garden; Garden Theme and Specialties; Hanging Baskets Display; and Succulent Garden.

Inasmuch as the award money earned at the fair is the major source of income for Society activities, every member should try to participate or supply plants for display. We need at least 100 plants for the Cactus Garden, at least 100 plants for the Succulent Garden, a minimum of 75 plants for the Garden Theme and Specialties, and at least 40 baskets.

As you can see, this is a staggering number of plants for a half dozen persons to supply and to move. The distribution of display plants to members last fall was an attempt to draw more members into taking an active part in future displays. We hope you have given special care to these plants, and will volunteer them for fair display this year.

In June, we will have two meetings; the regular meeting will take place on June 4, and the second on June 18, at the fair grounds. At the second meeting, we hope as many members as possible can bring display plants in their cars to the fair ground

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FAIR AND DISPLAY REPORT (continued from previous page)

at Del Mar, and assist in the arrangement and display of plants. We will have a picnic lunch, arrangements to be decided at the May meeting. Monday, June 20, is the last day to move in large specimen plants, superstructures, etc., so all large plants must be carted out by truck on June 18 and 19.

When the fair closes on July 4, we plan to have a truck there to haul out as many display plants as possible, and those remaining will be picked up the next day. All except largest plants will be trucked to the Taylor's in El Cajon for pickup.

We plan to postpone the July meeting from July 2 to July 9, and hold it at the Taylor Cactus Garden in El Cajon, where members may pick up smaller display plants. Mr. Taylor will give a demonstration of cactus grafting, a plant auction will be held, and members may tour one of the finest collections of large specimen cacti in the U. S.

During May, the fair committee plans to visit homes of willing members to select plants for display. If you have a nice selection, please contact one of the display chairmen:

Mr. & Mrs. Kim Arnold: Garden Theme and Specialties

Mr. Jim Stalsonburg: Cactus Garden

Mr. & Mrs Jack Ward: Succulent Garden

Basket Display

Mr. Ward, Fair Chairman, is still hoping that a Society member will volunteer to chairman either the Succulent Garden or Basket Display, so that he can give assistance to all displays.

The Arnold's are veteran exhibitors in Rock Garden exhibits, but, this year, must work under a handicap because there no longer is a Rock Garden display. The new Garden Theme and Specialties exhibit is for "New styles in displaying plants, emphasis on growing habits or emphasis on use of different receptacles in growing trends."

Mr. Jim Stalsonburg is a welcome newcomer to the activist ranks. He is studying to become a landscape designer or landscape architect, and is planning to produce some dramatic new lighting effects for the Cactus Display.

The Ward's now have 50 baskets either in the nucleus or in exhibition condition, but probably will not have but about one-half of those ready for display by fair time. They are hoping to receive at least 15 from other Society members. One essential basket needed is *Sedum morganianum* because the Ward's is not mature enough for display.

The Society has paid \$35 in registration fees, which are levied at 5% of top prize money for each display; this is the first year that fees have been charged for entry of displays.

LIBRARY MATERIALS

For the convenience of members we are publishing a complete list of library books available. Contact Mrs. Werner, Librarian, for more information or for suggestions for new materials.

Atkinson, Robert
Succulents in the Garden (pam.)

Borg, J.
Cacti

Britton, N. L. & J. N. Rose
The Cactaceae (Vol. 1&2, 3&4)

Brown, J. R.
Unusual Plants
(110 photos of succulents)

Chidamain, Claude
Cacti and Other Succulents

Craig, Robert T.
Mammillaria Handbook

Cutak, Ladislaus
Cactus Guide

Dawson, E. Yale
How to Know Cacti

Dodge, Matt N.
110 Desert Wildflowers in Natural color (pam.)

Earle, W. Hubert
Cacti of the Southwest
Earthworms (The Earthmaster System) (pam.)

Graf, A. C.
Exotica III

Haage, Walter
Cacti and Succulents

Hamblin, Stephen F.
American Rock Gardens

Haselton, Scott E.
Cacti for the Amateur
Cactus and Succulents and How to Grow Them
Succulents for the Amateur

Hertrich, William
A Guide to the Desert Plant Collection (pam.)

Higgins, Vera
Cacti
Crassulas in Cultivation
The Study of Cacti

Hummel
Victory Picture Book of Cacti and Succulents (pam.)

Jacobsen
A Handbook of Succulent Plants
(3 vols.)

Lamb, Edgar
Cacti and Other Succulents
(3 vols.)

Lindsay, George
Cacti of San Diego County
(pam.)

Marsden
Mammillarias

Marshall, W. T. & R. S. Wood
Glossary of Succulent Terms

Rodale, J. I.
Compost and How to Make It
(pam.)

Rose, H.
Flowering Cacti and Other Succulents

Shreve, Forrest & Ira L. Wiggins
Vegetation and Flora of the Sonoran Desert (2 vols.)

Vaughen, Ruben V.
Doc's Catalina Diary (pam.)

Welles, Philip
Meet the Southwest Deserts
(pam.)

White, Dyer, Sloane
The Succulent Euphorbiae
(2 vols.)

White & Sloane
The Stapelieae (3 vols.)

Wilson, Robert & Catherine
Bromeliads in Cultivation

Winter, H.
Kakteen, Cacti, Cactees

Magazines
Cactus and Succulent Journal
May, 1962, to date
California Garden
Feb., 1962, to date
Journal of the Mammillaria Society
April, 1964, to date
Los Angeles Cactus Chronicle
Dec., 1963 to date

Newsletters
Affiliate Reporter
Colorado Cactophiles