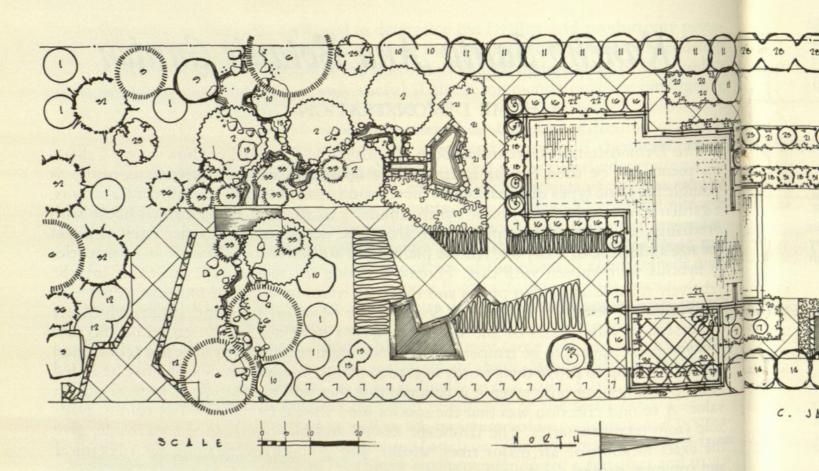
# Rancho Santa Ana Botanic Garden

### A HOME DEMONSTRATION GARDEN

This Demonstration Garden has been established to show visitors how native California plants can be used for landscaping their homes. In order to provide as nearly as possible the same types of situations as those found around homes in southern California, a garden structure has been built which simulates in size and shape a small house with overhangs, openings, patio, and service area. The demonstration garden itself is about the size and shape of a city lot. All the plants used are native to California and the species or hybrids were chosen with care. Foremost among the requirements was that they be relatively reliable as garden plants and that they could be expected to prove valuable in many areas of southern California. Some of the beautiful trees and shrubs which are to be seen in other parts of the Botanic Gardens have not been used, either because they sometimes prove to be temperamental under cultivation or they have not yet received sufficient testing to prove their worth as garden plants. In time new species may be added to the plantings, but only when it is believed that they will prove to be of general garden value. A second criterion was that the species used should be more or less readily available from retail nurseries. The landscape design and planting plan shown inside, give the exact location of all major trees, shrubs, and ground covers along with botanical and common names.

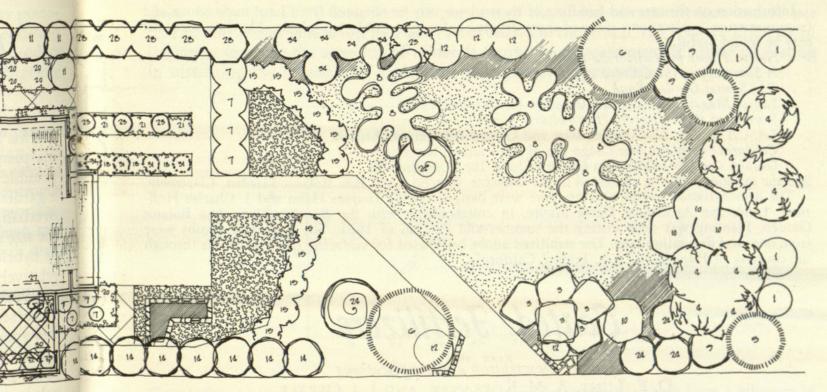


As visitors approach from the south, this is their first view of the Home Demonstration Gardens. The model "house" is located near the center of the landscape project. Photo: Douglas Ebersole.



### PLANT MATERIALS LIST

NO.	BOTANICAL NAME COMMON NAME
1.	Libocedrus decurrens Incense Cedar
2.	Alnus rhombifolia
3.	Lyonothamus floribundus var.
	asplenifolius
4.	Lithocarpus densiflora Tan Oak
5.	Pinus coulteri
6.	Pinus radiata
7.	Torreya californica California Nutmeg
8.	Platanus racemosa California Sycamore
9	Fremontia 'California Glory' Flannel Bush
10	Heteromeles arbutifolia
10.	
11	var. maceocarpa
12	Arctostaphylos densiflora
12.	
13	Arctostaphylos pumila Sonoma Manzanita
14	Arctostaphylos pumilaDune Manzanita
15	Rhus ovata
16	Myrica californica Wax Myrtle Ribes viburnifolium
10.	
17	Catalina Evergreen Currant
19	Berberis diderianaBarberry
10.	Berberis redens Barberry



C. JACQUES HAUN - J. CHARLES HOFFHAN

Denotes Native Annuals and Perennials

LANDSCAPE ARCHITECTS

### PLANT MATERIALS LIST

NO. BOTANICAL NAME COMMON NAME	
19. Asarum caudatum Wild Ginger	
20. Heuchera hybrids Alum Root	
21. Iris hybridsIris	
22. Polystichum munitum Sword Fern	
22. Folystichum munitum	
23. Umbellularia californica California Bay	
24. Ceanothus Species and Hybrids	
24. Ceanothus Species	
and Hybrids	
25. Ceanothus 'Cal Poly' California Lilac	
26. Vitis californica California Grape	
27. Woodwardia chamissoi Chain Fern	
28. Comarostaphylis diversifolia	
var. planifoliaSummer Holly	
var. planijona	
29. Rhododendron occidentale. Western Azalea	
30. Whipplea modestaYerba de Selva	
31. Berberis amplectensBarberry	
32. Juniperus occidentalisWestern Juniper	
33. Juniperus communis	
var. saxatilis	
34. Arctostaphylos insularis. Island Manzanita	
35. Picea sitchensisSitka Spruce	
36. Cupressus bakeri	
ssp. matthewsii Siskiyou Cypress	
Denotes Ceanothus criseus var. horizontalis	
Denotes Arctostaphylos edmundsiiLittle Sur Manzanita	1
Denotes Arctostaphylos viva - ursi var. coactilis	,
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Information on the care and handling of these plants may be obtained from local nurserymen and from numerous publications, some of them devoted entirely to California plants. The following list may be found useful.

Native Plants for California Gardens, Lenz

A Summary of the Culture of California Plants, Everett

The Sunset Garden Book

Sunset Magazine (especially the issue for October, 1961) Journal of the California Horticultural Society, San Francisco LASCA Leaves, Los Angeles State and County Arboretum, Arcadia California Gardens, San Diego Floral Association, San Diego

Golden Gardens, California Garden Clubs, Inc., Los Angeles
Specific questions may be addressed to the Director, Rancho Santa Ana Botanic Garden, Claremont. The demonstration garden and structure were designed by C. Jacques Hahn and J. Charles Hoffman, Landscape Architects, Sierra Madre, in collaboration with the Rancho Santa Ana Botanic Garden. Planting was done during the summer and autumn of 1961. The trees and shrubs were from one- and five-gallon cans. The stabilized adobe brick used for surfacing the structure is through the courtesy of Hans Sumpf Co., Fresno, California.

## Coated Fertilizers

General Description and Applications O. R. LUNT, A. M. KOFRANEK, AND J. J. OERTLI University of California, Los Angeles

Reprinted from California Agriculture, December, 1961 and California Turfgrass Culture, January, 1962.

In the coating process, individual granules of inorganic fertilizers are coated with resinous, polymeric membranes. When such granules are placed in contact with water or moist soil, water passes through the membranes and dissolves some of the fertilizer. A saturated solution with considerable osmotic pressure develops within each capsule. The coated granules swell and become spherical in shape. Apparently the dissolved fertilizer materials diffuse through the membranes into the outside solution. The rate of diffusion is regulated by the thickness of the membranes and is relatively steady until about two thirds of the fertilizer has been released. The rate of transfer through the membranes is not markedly influenced by steam sterilization of soils or by other conditions occurring in a life sign. ditions occurring in soils, except dryness. The influence of soil conditions on diffusion rates will be the subject of a subsequent article.

Nitrogen (including urea), phosphorus, potassium, and mixed fertilizers can be coated. With some coatings, the minerals have been released over a period exceeding six

months. A depletion time of 4 or 5 months is adequate for many crops.

After all the minerals have passed through a membrane, the solution is withdrawn from the capsule, apparently by soil-moisture suction. The membrane shrinks, becomes brittle, and is easily crushed between the fingers. The swollen condition distinguishes coated particles which are still functional from those which are exhausted.

DURATION OF SUPPLY To illustrate the duration of mineral supply from coated fertilizers, 500 granules of coated 20-10-5 fertilizer were examined after 112 days in soil with a growing crop. Of the lightly coated granules, 37.4 per cent were still swollen; of the medium coated, 49.6 per cent; and of the heavily coated, 58.2 per cent.

The graph shows cumulative quantities of nitrate nitrogen and of potassium released from a 60-centimeter column containing 30 grams of coated 10-10-10 fertilizer uniformly incorporated in 1 kilogram of krilium-treated soil. The column was leached every few



1962. "Rancho Santa Ana Botanic Garden: a home demonstration garden." *Lasca leaves* 12(Spring 1962), 35–38.

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