

SUPPORTING ORGANIZATIONS

RESEARCH DIVISION

The Research Division at the Department of Arboreta and Botanic Gardens is responsible for keeping an on-going record of the plant collection growing on the grounds, collecting and exchanging plant material with other institutions, introducing new plant material to Southern California, maintaining the herbarium, and conducting plant science research.

At the present time, the plant records section is inventorying and mapping all plants growing on the grounds and correcting the computerized plant records. The Arboretum is divided into 200-foot squares. Sixty-five squares were mapped showing the permanent planting in each square.

Over 1000 different seed packets obtained from our seed exchange program with over 400 arboreta and botanic gardens throughout the world were accessioned and sent to the nursery for planting as part of the Plant Collection and Introduction Program. These plants are being grown and tested as potential new introductions to the Southern California landscape. Four plants were released to the public as Arboretum Introductions during this reporting period. These plants are: Brunfelsia pauciflora var. exima, Xanthorrhoea media, Agapanthus 'Walter Doty', and Grevillea 'Clearview David'.

The major research program at the Arboretum was the guayule project. Guayule, a desert shrub native to the southwestern United States, has shown commercial potential in the production of latex or natural rubber. The project was funded by grants from the National Science Foundation and the U.S. Department of Agriculture. Research on the yield of rubber from guayule was conducted through hybridizing, use of bioregulator chemicals, and cultural research for disease resistance.

During this reporting period, a two-year grant project supported by the National Science Foundation on waste water and the fate of virus in soil was terminated. As imported water becomes expensive in Southern California, the use of waste water for cultivating plants in parks, golf courses, and parkways has become increasingly important.



1961. "Research Division." *Biennial report* 1979-81, 20.

View This Item Online: <https://www.biodiversitylibrary.org/item/139518>

Permalink: <https://www.biodiversitylibrary.org/partpdf/145412>

Holding Institution

Missouri Botanical Garden, Peter H. Raven Library

Sponsored by

Missouri Botanical Garden

Copyright & Reuse

Copyright Status: In copyright. Digitized with the permission of the rights holder.

License: <http://creativecommons.org/licenses/by-nc-sa/3.0/>

Rights: <https://www.biodiversitylibrary.org/permissions>

This document was created from content at the **Biodiversity Heritage Library**, the world's largest open access digital library for biodiversity literature and archives. Visit BHL at <https://www.biodiversitylibrary.org>.