

and a soft soil with a good amount of organic matter. Propagation is by spores or by divisions of the underground rhizome.

The genus *Lygodium* is composed of forty species which are all climbers. They are distributed in tropical and subtropical regions of all continents. The hairy underground rhizome gives rise to fronds of indefinite growth. The midrib is stem-like, long and twining, bearing the alternate pinnae, which are easily mistaken for fronds. The pinnae are borne on short stalks which branch dichotomously into two pinnules. The pinnules are variously pinnate or palmately divided. The fertile pinnules are somewhat contracted, and have along their margin a fringe of short, narrow lobes. Each lobe bears two rows of sporangia which are covered by a hard, scale-like indusium.

The only species presently cultivated in California is *L. japonicum*, frequently misnamed *L. scandens* in the trade.

Lygodium japonicum Swartz. Japanese Climbing Fern. Pinnules light green, 4-8 in. long, and nearly as wide, deltoid; terminal segment pinnatifid, the lateral ones 2 or 3 on each side, very unequal, the lower ones long stalked and pinnate; margins serrate. Asia and Australia. Semi-hardy to tender. *L. scandens* Swartz with which this species has been confused has less divided fronds, the segments being simple and ovate, or lobed at the base. Other species reported to be cultivated in the United States are *L. circinnatum* (Burm.) Swartz, *L. palmatum* (Bernh.) Swartz, and *L. volubile* Swartz. The tightly twining habit and the fertile parts borne on marginal lobes readily distinguish members of this genus from all others.



Lygodium japonicum, fertile pinnae. Note that the pinnae are borne on a short stalk, and then branch dichotomously into two pinnules.

COVER PICTURE

Lygodium japonicum, Japanese Climbing fern. Left, portion of frond with sterile pinnae.
Right, fertile pinnule.

REGISTRATION OF NEW CULTIVARS

PERCY C. EVERETT

As a member of the American Association of Botanical Gardens and Arboretums, the Rancho Santa Ana Botanic Garden, Claremont, California, has agreed to assist in the registration of all new cultivars and to supply its facilities as a repository for the necessary records, for the following genera: *Arctostaphylos*, *Ceanothus*, *Dendromecon*, *Fremontia*, *Garrya*, and *Romneya*. Anyone wishing to introduce a new cultivated variety in any of the above genera, in accordance with the rules as set forth by the International Code of Nomenclature for Cultivated Plants, should consult with the above institution before proceeding. Information and forms will be provided to formally inaugurate the necessary steps for registering a new cultivar.

BOOK REVIEW

Budget Landscaping, by Carlton B. Lees. 152 pp. Illustrated with line drawings. Published by Henry Holt and Co., 383 Madison Ave., New York 17. 1960. \$3.95.

This volume tells in a direct manner the essence of landscaping a small home. Written in a clear concise style, with numerous examples, it presents concepts, ideas, and practical methods of immediate value to anyone involved in home landscaping on a relatively small scale.

Section headings are: The Viewpoint; Defining The Space; The Front Yard; The Back Yard; The Material; Getting Your Lot on Paper; Analyzing Your Landscape, and; Organizing The Garden. Within the sections are intriguing discussions under such titles as: Logic in a small lot; A 1900 house brought down to earth and up to date; Parking in the front yard; On a postage stamp; Overcoming the bulldozer; Variety in fifty by sixty feet, and; A hint of the past.

Landscaping on a limited budget is the theme of the book and is truly shown in the "Do it yourself" approach and methods given. It is a book which in the words of the author "—is hoped, will help many families who live in ordinary house on ordinary city or suburban lots in neighborhoods either new or old."

The author conducted the Budget Landscaping class for five and one-half years at Kingwood Center, Mansfield, Ohio. Many of the valuable examples presented were actual home landscaping problems brought to class by the homeowner and solved in conjunction with him. Some of the solutions include a scheduled development of the property over a period of several years thus budgeting time as well as money.

Although the book has the flavor of eastern and mid-western landscaping the basic concepts of good landscape design and the methods are equally applicable in the west.

"Budget Landscaping" is recommended for the layman who has an urge to create within his landscape space an area that is more useful, attractive, and enjoyable to him.

It is a book for 1960 living!

WILLIAM S. STEWART



Hoshizaki, Barbara Joe. 1960. "Ferns cultivated in California." *Lasca leaves* 10(Autumn 1959), 86–87.

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