



Bibliography of Otto and Isa Degeners' Hawaiian Floras
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BIBLIOGRAPHY OF OTTO AND ISA DEGENER'S HAWAIIAN FLORAS

Compiled by Susan W. Mill,¹ Warren L. Wagner¹ and
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Introduction

For over half a century Otto Degener, and for the past thirty years with coworker Isa Degener, has published on the flora of the Hawaiian Islands. The Degeners have often been acknowledged for their interest and dedication to the complex floristics of the islands and for their efforts in awakening the public to the need of conservation of native habitats of Hawai'i. Through their many books and publications, the Degeners have accomplished a great deal in terms of developing information about the plants of Hawai'i, and in this way they have made a tremendous contribution to the understanding of the unique Hawaiian flora. The Degeners initiated ongoing floristic works on Hawaiian plants under three titles: *Flora Hawaiiensis*, *Degeners' Flora Hawaiiensis*, and *Degeners' Flora Hawaiiiana*. The greater part of their contributions to Hawaiian botany have been published as parts of the *Flora Hawaiiensis*.

The principal contributions of *Flora Hawaiiensis* to the understanding of the Hawaiian flora come from Degener's extensive field knowledge based on over 60 years of collecting in the islands. Degener has gathered ethnobotanical information and has noted the introduction and subsequent spread of exotic species in Hawai'i. This information along with other pertinent notes are included in the treatment of each species. The detailed descriptions that the Degeners provide are frequently more complete than those found in any other locally available source. These descriptions, together with the excellent line illustrations provided for almost every species, help to make accurate specimen identifications. In addition to the descriptive part of *Flora Hawaiiensis*, the work also includes introductory pages and indices and various miscellaneous publications, including a glossary of botanical terms, index to Hawaiian plant names, and historical sketches of several botanists.

Flora Hawaiiensis, also called "New illustrated flora of the Hawaiian Islands" or "New illustrated Hawaiian flora," is a compilation of loose-leaf sheets copyrighted and usually principally authored by Otto Degener, and after 1956, by Otto and Isa Degener, and published privately at irregular intervals from 1932 to 1980. To date, it contains 1144 articles treating 800 total species of native, naturalized, and cultivated ferns, fern allies, flowering plants, and one gymnosperm species in Hawai'i. The sheets are bound in fascicles termed "Books" or "Centuries," six of which are complete and Book 7 is only partly completed. The dates of publication for articles contained in each book are as follows:

Book 1—1932–1933, copyrighted as bound unit 1933

Book 2—1932–1935, copyrighted as bound unit 1935

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Book 3—1934–1938, copyrighted as bound unit 1938
Book 4—1938–1940, completed as bound unit 1940
Books 1–4 reprinted and copyrighted as bound unit 1946
Book 5—1946–1957, copyrighted as bound unit 1957
Book 6—1957–1963, copyrighted as bound unit 1963
Book 7—1963–ongoing

Degeners' Flora Hawaiiensis at present consists of two articles: Leaflet No. 1, entitled "Prodromus of *Galeatella* and *Neowimmeria*," and Leaflet No. 2, "*Myrsine*, *Rapanea* and *Suttonia*." The former article does not state on it that it is part of *Degeners' Flora Hawaiiensis*, but it is noted as such in a statement in the latter publication; for this reason the flora title and "Leaflet No. 1" are put in brackets in the bibliographic entry.

Degeners' Flora Hawaiiiana, principally authored by Otto and Isa Degener, was published from 1968–1973 and includes treatments of Hawaiian lichens and mosses. Like *Degeners' Flora Hawaiiensis*, it also is divided into "Leaflets," one dealing with lichens and the other with mosses. Thus far, Leaflet 1 consists of a key to Hawaiian lichens, a synopsis of the taxa present in Hawai'i, and a glossary of botanical terms. Leaflet 2 includes a general description of mosses, a listing of the families within each order, a key to Hawaiian species, the treatment of one species, and a tribute to Hans Hoermann.

The compilation of the present bibliography arose out of a larger project to create a computer database for a complete bibliography of Hawaiian botanical literature on flowering plants. This overall literature survey is being performed in conjunction with the project currently in progress at the Bernice P. Bishop Museum to produce a *Manual of the Flowering Plants of Hawai'i*. We decided to treat the Degeners' floras separately from the complete bibliography currently in preparation primarily because of the large number of individual articles published in them. Moreover, there was a need for a complete index to *Flora Hawaiiensis*. It has been difficult to know exactly what is included in this flora for two reasons. First, the sheets to be bound in each book were arranged in a loose-leaf manner, thus it is difficult to know if any book is complete. Secondly, the treatments of species in a family or even the sheets of a single genus or species are often distributed in more than one book. Within each book, the sheets are arranged alphabetically within a family and the families are arranged numerically by their assigned numbers, which correspond to a phylogenetic arrangement. Yet among the books thus far completed in the flora, the order is not continuous.

A number of sets of *Flora Hawaiiensis* were utilized in compiling this bibliography. The best sets available were those of: D. R. Herbst, W. J. Hoe, F. R. Fosberg, S. H. Sohmer, and the libraries of the Herbarium Pacificum and Bishop Museum.

The two primary purposes of this bibliography are: 1) to propose a standardized format for citing the Degeners' floras, and 2) to provide as complete a list as possible of all publications in them. In doing so we hope to enable individuals to more fully utilize the Degeners' work. Perusal of literature that includes citation of the Degeners' floras shows that there is no clearly established format for citing them. We would recommend for clarity and uniformity that whenever an article from one of the Degeners' floras is cited that it be done as shown in the following examples:

Degener, O., I. Degener and O. Klement. 1970. *Degeners' Fl. Hawaiiiana*, Leaflet No. 1, Glossary of botanical terms, part 2. Publ. priv., 2 pp.

Degener, O. 1936. *Fl. Hawaiiensis*, contents of second century and important notes. Publ. priv., 4 pp. (K₇ and K₈). Rep., 1946.

Degener, O. and I. Degener. 1960. *Fl. Hawaiiensis*, fam. 5. *Gleicheniaceae*; *Dicranopteris*; *Dicranopteris emarginata*, part 1. Publ. priv., 2 pp. Replaces *Gleicheniaceae*; *Dicranopteris*, 1940.

Degener, O. and E. E. Sherff. 1932. *Fl. Hawaiiensis*, fam. 344. *Bidens wiebkei*. Publ. priv., 2 pp. Rep., 1946, with change.

Egler, F. E. 1950. Leguminosae, Pea family, Key to local species, by leaves and fruits. *In*: O. Degener, *Fl. Hawaiiensis*, fam. 169. Publ. priv., 15 pp.

Note abbreviations for the words flora, family, published, and privately. In order to save space and reduce the amount of redundancy in each bibliographic entry in this paper, the title of the flora, the family number (only in *Flora Hawaiiensis*), and the notation of published privately are not included for each article cited, except in the particular cases described below. However, these should be included in any bibliographic citations of the Degeners' floras.

The bibliographies of *Degeners' Flora Hawaiiensis* and *Degeners' Flora Hawaiiiana* are arranged chronologically by year. The *Flora Hawaiiensis* bibliography is separated into four sections: introductory and miscellaneous articles, ferns and fern allies, gymnosperms, and flowering plants. The taxonomic sections are arranged alphabetically by the family names used by Degener which appear as headings. All sheets with the corresponding family number (noted after the family heading) are arranged within a family by genus and species. The family Leguminosae is divided into three subgroups: Mimosaceae, family 169a; Caesalpiniaceae, fam. 169b; and Fabaceae, fam. 169c. Within the ferns and fern allies section, there are situations in which different species of one genus are placed under different family headings; this is because the Degeners in 1957 [Fl. Hawaiiensis, Contents of fifth century and important notes (K₁₃ and K₁₄)] divided family 17, Polypodiaceae, into four families, 17a (Polypodiaceae), 17b (Aspidiaceae), 17c (Blechnaceae), and 17d (Aspleniaceae). Sheets published under the heading of family 17 and family 17a appear together under Polypodiaceae and the family number is noted for each article. In this article the Degeners also indicated changes in family disposition for particular articles previously published in the family Polypodiaceae and for each of these the new family number and name appears in brackets at the end of the bibliographic entry.

The titles given in the bibliography for the taxonomic publications are based on the major headings which appear in the article. For example, it was common for Degener to give the family description and general information on the front side and treat a genus similarly on the back side of one sheet. The title thus includes both the family and genus name (e.g., "Batidaceae; *Batis*"). Titles do not include subspecific names, however, unless the article is concerned with only one subspecific entity.

The Degeners' intended arrangement of the introductory and miscellaneous articles of *Flora Hawaiiensis* is determined by a system in which a letter and number appears in the upper right hand corner of each sheet. Sheets labelled with an A come before those with a B, likewise, A₁ comes before A₂. The letter and number (or subject's name as in the historical sketches) for each sheet appears in parentheses at the end of the bibliographic citation. This system is especially useful in this bibliography when sheets of a particular article were published on different occasions. In these cases, separate entries have been made for each different publication date and the pages for each entry are designated by the numbering system in parentheses (e.g., "D_{Degener}" was published at a different time than "D_{Degener 3}" through "D_{Degener 6}" as was "D_{Degener 7};" also, "D_{Sherff}" comes before "D_{Sherff 2}" even though the second page was published three years before the first).

In *Degeners' Flora Hawaiiiana* and in the taxonomic section of *Flora Hawaiiensis* there are instances in which two or more sheets of a particular article were published at different times. In these cases, we have made different entries for each different publication date and state "part 1" or "part 2" after the title to designate the page order for that article. For example, the treatment for the genus *Chamaesyce* was published in six different parts or sheets. *Chamaesyce*, part 1, was published first in 1936 and reprinted, with minor changes, "to replace" the previous sheet in 1938, and again offset reprinted in 1946. Parts 2 and 3 were both published on the same date, 27 February 1937, and thus are included in a single bibliographic entry. The publication date originally printed on part 4, pages 7 and 8 of the overall *Chamaesyce* treatment, is 9 November 1936, but on some sheets this

date was crossed out and changed to 9 December 1936. For this reason and because it was reprinted only once in 1946, it is treated in a separate entry in the bibliography. Parts 1–4 were authored by O. Degener and L. Croizat whereas parts 5 and 6 were authored by O. and I. Degener. Parts 5 and 6 were both published in 1959, but on different dates and so they are entered separately. In contrast, sheets of a particular species may have been published with part numbers, as subscripts after the species name, yet if they were all published on the same day, part numbers are not included in the title.

Separate entries also have been made for two or more sheets of a particular treatment published on the same day yet authored differently. For example, the sheet which treats Droseraceae, the genus *Drosera*, and part 1 of *D. anglica* was published on 15 February 1957 and authored by O. and I. Degener. The second sheet, part 2 of *D. anglica*, was published at the same time but is authored by O. and I. Degener with H. Ziegenspeck, and thus constitutes a separate bibliographic entry. Two special cases should be noted: 1) The sheet treating the genus *Nestegis* (Oleaceae) is separated into two bibliographic entries because the authorship given on page one (O. Degener, I. Degener and L. A. Johnson) is different than that of page two (L. A. Johnson); 2) The authors of *Peucedanum sandwicense*, part 2 (fam. 282) are cited as O. Degener, I. Degener and L. Constance although L. Constance is not listed as third author on page one, yet is included as such at the bottom of page two.

A majority of the sheets of *Flora Hawaiiensis* published before World War II were offset reprinted on 15 September 1946, some with minor changes, and were bound in a single cover as a second edition of Books 1–4. Those which were not reprinted include the four species that had color plates: *Arachis hypogaea* (Leguminosae—Fabaceae), *Jambosa malaccensis* (Myrtaceae), *Opuntia megacantha* (Cactaceae), and *Osteomeles anthyllidifolia* (Rosaceae). The reprinted sheets usually are indicated as such by a note at the bottom: “Offset-printed 9/15/46,” and at the end of the bibliographic entry for these articles appears “Rep., 1946” or “Rep., 1946, with change.” However, the statement of reprinting does not appear on seven of the sheets printed in 1946. These can be determined by the noncoated paper on which they are printed and are indicated in the bibliographic entry by an asterisk (*) following the note of reprinting. Some sheets published since then also have been reprinted, and in most cases these have a note at the bottom that they are to “replace” the older sheet. Within this bibliography, the original and reprinted sheets are treated in a single entry with a note containing the date of reprinting and stating “with change” if minor ones were made (e.g., Rep., 1950, with change). There are instances, however, in which the reprinted sheet does not state it should “replace” or “displace” the original article. Examples include the 1960 reprint of *Chamaesyce remyi*, part 1 (fam. 190). In instances in which changes in taxonomic delimitation were made, sheets were published to “displace” or to “replace,” that is, to be substituted, for the old ones. In these cases, two entries have been made in the bibliography, one for each name, and a note appears at the end of the entry for the most recent article which states that it “replaces” the original article, or articles, and gives the title and year of publication.

In cases in which a treatment for a species, genus, or family was published a second time 1) to include many changes, that is, it was completely rewritten but there is no change in taxonomic delimitation (for example, a species is rewritten to include descriptions of particular varieties), and/or 2) there was a change in authorship, and 3) the new sheet states it is “to replace” the older publication, again, two separate entries have been made and a note appears at the end of the entry for the newer article. Yet if 1) and/or 2) is the case but the more recent sheet does not state “to replace” at the bottom (e.g., Degener and Degener, 1959, fam. 19. Lycopodiaceae), the bibliographic entry will not have a note at the end stating it “replaces” the older article.

In some cases, a sheet states it is to “replace” an earlier article of the same title, yet it is identical to the original, and in these cases there is only one entry with a note giving the year of reprinting.

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- Degener, O., I. Degener and O. Klement. 1970. Leaflet No. 1, Glossary of botanical terms, part 2. 2 pp. [Some sheets printed with photograph of O. Klement.]
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Aspidiaceae—fam. 17b

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Davalliaceae—fam. 14

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Hymenophyllaceae—fam. 10

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Pteridaceae—fam. 12

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Amaranthaceae—fam. 112

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Anacardiaceae—fam. 196

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Annonaceae—fam. 132

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Batidaceae—fam. 91

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Begoniaceae—fam. 255

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Bignoniaceae—fam. 321

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Bixaceae—fam. 241

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Boraginaceae—fam. 314

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Capparidaceae—fam. 142

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Caprifoliaceae—fam. 333

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Caricaceae—fam. 252

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Corynocarpaceae—fam. 199

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Crassulaceae—fam. 153

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Cruciferae—fam. 143

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Cucurbitaceae—fam. 337

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Droseraceae—fam. 150

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Geraniaceae—fam. 171

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Goodeniaceae—fam. 340

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Guttiferae—fam. 235

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Haloragaceae—fam. 277

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Hydrophyllaceae—fam. 312

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Iridaceae—fam. 74

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Joinvilleaceae—fam. 53a

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Juncaceae—fam. 66

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Labiatae—fam. 316

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Lauraceae—fam. 137

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Leguminosae—fam. 169

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Mimosaceae—fam. 169a

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Caesalpinaceae—fam. 169b

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Onagraceae—fam. 276

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Punicaceae—fam. 267

- Degener, O. 1932. Punicaceae; *Punica*. 2 pp. Rep., 1946, with change.
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Ranunculaceae—fam. 124

- Degener, O. and I. Degener. 1959. Ranunculaceae. 2 pp.
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Rhamnaceae—fam. 215

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Rosaceae—fam. 167

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Rubiaceae—fam. 332

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Rutaceae—fam. 179

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Santalaceae—fam. 100

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Sapindaceae—fam. 210

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Sapotaceae—fam. 293

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Saxifragaceae—fam. 155

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Scrophulariaceae—fam. 319

- Degener, O. and I. Degener. 1958. Scrophulariaceae. 2 pp.
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Solanaceae—fam. 318

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Degener, O. 1932. *Brugmansia*. 2 pp. Rep., 1946.
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Degener, O. and I. Degener. 1956. *Cestrum*. 1 p.
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Degener, O. 1934. *Datura metel* f. *pleniflora*. 2 pp. Rep., 1946.
Degener, O. and I. Degener. 1957. *Datura stramonium*. 3 pp.
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Sterculiaceae—fam. 223

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Taccaceae—fam. 72

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Terminaliaceae (Combretaceae)—fam. 272

Degener, O. and I. Degener. 1956. Combretaceae (Terminaliaceae). 1 p.
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Theaceae—fam. 234

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Thymelaeaceae—fam. 261

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Tiliaceae—fam. 220

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Umbelliferae—fam. 282

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Urticaceae—fam. 97

- Degener, O. and I. Degener. 1957. Urticaceae. 2 pp.
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Verbenaceae—fam. 315

- Degener, O. and I. Degener. 1960. Verbenaceae. 2 pp.
 Degener, O. 1934. *Clerodendrum fallax*. 2 pp.
 Degener, O. 1932. *Clerodendrum fragrans*. 2 pp.
 Degener, O. 1934. *Duranta*. 1 p. Rep., 1946.
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 Degener, O. and A. B. Greenwell. 1949. *Holmskioldia sanguinea*. 2 pp. Rep., 1950.
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 Degener, O. and I. Degener. 1960. *Verbena litoralis*. 2 pp.
 Degener, O. 1938. *Vitex parviflora*. 2 pp. Rep., 1946.
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 var. *ovata*, 1932.

Violaceae—fam. 245

- Degener, O. and A. B. Greenwell. 1952. Violaceae. 1 p.
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Zingiberaceae—fam. 76

- Degener, O. 1940. *Costus speciosus*. 2 pp. Rep., 1946.
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Zygophyllaceae—fam. 177

Degener, O. 1932. Zygophyllaceae; *Tribulus*. 2 pp. Rep., 1946.

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