

EVALUATION OF H. LÉVEILLÉ'S NEW HAWAIIAN SPECIES
Hawaiian Plant Studies 76

Harold St. John
Bishop Museum, Honolulu, Box 19000A, Hawaii, 96819, USA.

Abbe' Urbain Faurie was a French Catholic missionary to Japan. When so urged he made a plant collection, and sent it to Abbe (Augustin Abel) Hector Léveillé of Le Mans, France. Léveillé described a large percentage of them as new species, and named most of them Fauriei. Inspired by this distinction, Faurie made more and more collections, and finally resigned from the mission to become a plant collector. From April 1909 to June 1910 he explored the Hawaiian Islands, and collected some 1,160 numbers of plants.

On studying this Hawaiian collection (1911-1913) Léveillé published 114 of them as new species (or varieties). His diagnoses were about four or five lines in length, and seldom gave any measurements, or contained a comparison with the closest known species. His work was hasty and careless, and of his Hawaiian new species about half are synonyms of valid, earlier published species. J. F. Rock (1914) published a critical review of Léveillé's Hawaiian "novelties."

The writer is in general agreement with Rock's treatment, but subsequent monographs, and observations by the writer, have caused numerous changes. Consequently it is desirable to publish a new critique of the Hawaiian species published by Léveillé.

Of the 114 new Hawaiian taxa published by Léveillé 61 are synonyms, 5 have become basionyms, 2 are species dubia, and 46 are now accepted as good species or varieties.

Léveillé's Species arranged by Families according to Léveillé. The numbers are the collection numbers

Piperaceae

Peperomia Fauriei 108, Molokai

P. Helleri 109, Molokai

P. refractifolia 123, Molokai = P. Cookiana C. DC.

Urticaceae

Pipturus hawaiiensis 508, Hawaii

Pittosporaceae

Pittosporum Fauriei 18, 38, Oahu = P. glabrum H. & A.

P. Hillebrandii 17, Molokai = P. insigne Hbd., var.

Hillebrandii (Lévl.) Sherff

Rosaceae

Rubus Damieni 805, Molokai = R. hawaiiensis Gray

- Rubus Hillebrandii* 802, 806, Hawaii, Maui = *R. hawaiiensis* Gray
R. Koehnei 801, Maui, published in 1911, hence the earlier, valid binomial, and *R. penetrans* Bailey, 1933, becomes a synonym.

Rutaceae

- Pelea acutivalvata* 172, Kauai = *P. peduncularis* Lévl.
P. Fauriei 104, 203, Molokai = *P. clusiaefolia* Gray, var. *Fauriei* (Lévl.) St. John & Hume
P. Feddei 194, Kauai
P. foetida 193, Maui = *P. molokaiensis* Hbd.
P. grandipetala 4, Oahu = in part *P. honoluluensis* St. John in part *P. peduncularis* Lévl.
P. Hillebrandii 183, 184, Kauai = *P. anisata* Mann
P. Leveillei 1, Kauai
P. nodosa 5, Kauai = *P. anisata* ?
P. oahuensis 11, 217, 217bis, Oahu
P. peduncularis 189, Oahu
P. penduliflora 9, Sandwich Is. = *P. peduncularis* Lévl.
P. singuliflora 194, 195, 224 = in part. *P. peduncularis* Lévl.; in part *P. Wawraeana* Rock
P. subpeltata 209, Kauai = *P. anisata* Mann
P. waianaiensis 215, Oahu = *P. peduncularis* Lévl., var. *quadrata* Stone

Euphorbiaceae

- Euphorbia Hillebrandi* 468, Oahu
Phyllanthus sandwicensis F. Muell., var. *hypoglauca* = *Breynia disticha* Forst f., f. *nivosa* (W. G. Sm.) Croizat

Aquifoliaceae

- Byronia Helleri* 280, Kauai = *Ilex anomala* H. & A.

Malvaceae

- Hibiscus Fauriei* 828, Oahu = *H. schizopetalus* (Mast.) Hook. f., fide Rock; or = *H. Arnottianus* Gray, fide Roe. These two species are strikingly different. Neither of the botanists could have been mistaken, so there was doubtless a mixed number, with duplicate sheets, each with a different species.
Malva hawaiiensis 855, 858 = *M. moschata* L.
Sida Fauriei 5, Oahu = *Malvastrum coromandelianum* (L.) Garcke
S. oahuensis 839, Oahu = *Malvastrum coromandelianum* (L.) Garcke
S. sandwicensis 6, Sandwich Is. = *S. fallax* Walp.

Sterculiaceae

- Waltheria Fauriei* 841, Oahu - *Triumfetta Bartramia* L.

Violaceae

- Isodendron* (as *Isodendron*) *Fauriei* 693, Molokai = *Gouania Hillebrandi* Oliver in Hbd.
Viola sandwicensis 1, Oahu - *Cyrtandra sandwicensis* (Lévl.) St. John & Storey

Thymeliaceae

Wikstroemia Fauriei 548, Maui = W. sandwicensis Meisn.
in A. DC.

Myrtaceae

- X Nania Fauriei 27, Molokai. = Metrosideros polymorpha
Gaud., ssp. incana (L  vl.) Skottsb., var. Fauriei
(L  vl.) Skottsb.
- X N. Feddei 32, Kauai = Metrosideros tremuloides (Heller)
Rock, fide Rock, but that species is known only on Oahu.
- N. macropus (H. & A.) Ktze., f. microphylla 26, Kauai.
This has not been seen or placed.
- N. polymorpha (Gaud. Heller, var. incana 28, Molokai
= Metrosideros polymorpha Gaud., subsp. incana
(L  vl.) Skottsb.
- N. polymorpha (Gaud.) Heller, var. glaberrima 35, Oahu.
= Metrosideros polymorpha Gaud. subsp. glaberrima
(L  vl.) Skottsb.
- N. polymorpha (Gaud.) Heller, var. nummulariaefolia 34,
Hawaii. = Metrosideros polymorpha Gaud., var.
polymorpha.
- N. polymorpha (Gaud.) Heller, var. sessilis 32. Oahu.
This has not been seen or reassigned.

Araliaceae

- Cheirodendron trigynum (Gaud.) Heller, var. Hawaiensis
262, = var. trigynum.
var. Kauaiensis 266 = C. Fauriei Hochr., Kauai.
var. mauiensis 265, Maui.

Ericaceae

- Vaccinium Fauriei 700, 702, Molokai = V. calycinum Sm.,
var. calycinum, f. Fauriei (L  vl.) Skottsb.
- V. hamatidens 699, Kauai = V. calycinum Sm., var.
calycinum, f. hamatidens (L  vl.) Fosb.

Epacridaceae

- Cyathodes imbricata Stschegl., var. volcanica 442, 445,
Hawaii = Styphelia Douglasii (Gray) F. Muell. ex Skottsb.

Myrsinaceae

- Myrsine Fauriei 422, 423, 427, Oahu = M. Lessertiana A. DC.
- M. molokaiensis 435, Molokai = Planchonella spathulata
(Hbd.) Pierre, var. molokaiensis (L  vl.) St. John.
var. punctata 447, Kauai = M. punctata (L  vl.)

Wilbur.

- M. sandwicensis A. DC., var. mauiensis 449, Maui.
- M. Vanioti 448, Oahu = M. sandwicensis A. DC.
- Suttonia apodocarpa 446, Kauai = Myrsine punctata
(L  vl.) Wilbur.
- S. cuneata 2, 3, 431, Hawaii = Myrsine Lessertiana A. DC.
- S. flavida 4, 5, Maui = Myrsine Lessertiana A. DC.
- S. mauiensis 449, Maui = Myrsine sandwicensis A. DC.,
var. mauiensis L  vl.
- S. Meziana 428, = Myrsine Meziana (L  vl.) Wilbur.

Suttonia pukooensis 426, Molokai = *Myrsine pukooensis* (Lévl.) Hosaka.

S. punctata 447, Kauai = *Myrsine punctata* (Lévl.) Wilbur

S. Vanioti 448, Oahu = *Myrsine sandwicensis* A. DC.

Primulaceae

Lysimachia daphnoides Hbd., var. *Fauriei* 708, Oahu

= *L. Hillebrandii* Hook. f. ex Gray.

Apocynaceae

Alyxia (as *Alixia*) *myrtillaefolia* (Gray) Lévl., 455, Molokai = *A. olivaeformis* Gaud., f. *myrtillaefolia* (Gray ex Hbd.) St. John.

Convolvulaceae

Ipomoea Fauriei 1,035, 1,049 = *I. stolonifera* (Cyrill.) J. F. Gmel.

I. koloaensis 1,036, Kauai = *I. stolonifera* (Cyrill.)

J. F. Gmel. Rock called this *I. pes-caprae* Sw., so

the several sheets under this number may have contained a mixture.

Labiatae

Stenogyne Fauriei 911 = *Coleus Blumei* Benth.

Solanaceae

Solanum Fauriei 861 = *S. nigrum* L.

Scrophulariaceae

Herpestis Fauriei 1,126, Hawaii = *Bacopa Monniera* (L.) Wettst.

Veronica hawaiiensis 892, Hawaii = *V. arvensis* L.

Gesneriaceae

Cyrtandra asaroides in part, 623, Kauai = *C. oenobarba* Mann, var. *oenobarba*.

in part, 624, Kauai = *C. oenobarba* Mann, var.

petiolaris (Wawra) Clarke

C. Fauriei 632, Molokai = *C. lysiosepala* (Gray) Clarke, var. *Fauriei* (Lévl.) Rock

C. Kamoloensis 646, Molokai = *C. Grayana* Hbd.

C. oahuensis 638, Oahu

C. Vanioti 1,144, Oahu

C. Wainihaensis 640, Oahu (probably = Kauai), not seen.

Myoporaceae

Myoporum Fauriei 677, Molokai = *M. sandwicense* Gray, subsp. *Fauriei* (Lévl.) Kraenzlin

Plantaginaceae

Plantago Fauriei 1,078, Kauai = *P. princeps* C. & S., var. *longibracteata* Mann

P. Gaudichaudiana 1,075, Hawaii = *P. hawaiiensis* (Gray) Pilger, var. *hawaiiensis*

Rubiaceae

Coprosma Fauriei 330, Kauai = *C. stephanocarpa* Hbd.

C. parvifolia = *C. stephanocarpa* Hbd. The data 324 and Molokai supplied by Rock (1914: 358).

Gouldia cirrhopetiolata 344, 416, Maui, Molokai.

Of two different hybrids, fide Fosberg.

Kadua herbacea 368, Maui = *Hedyotis Cookiana* (C. & S.) Steud., var. *herbacea* (L  vl.) Fosb.

Straussia Fauriei 400, Oahu = *Psychotria Fauriei* (L  vl.) Fosb.

Cucurbitaceae

Sicyos Fauriei 877, Oahu = *Momordica charantia* L.

Lobeliaceae

Clermontia carinifera 10, Kauai = a species dubia, fide Rock.

C. Fauriei 578, Kauai = *C. clermontioides* (Gaud.) Heller

C. fulva 11, Kauai

Cyanea Blinii 575, Hawaii = *Clermontia parviflora* Gaud.

C. Fauriei 565, 591, Kauai = *C. coriacea* (Gray) Hbd., var. *Fauriei* (L  vl.) E. Wimm.

C. Feddei 567, Kauai = *C. fissa* (Mann) Hbd.

C. multispicata 576, 594, Kauai

C. salicina 569, Kauai. Described from a specimen with only leaves. Species dubia.

Delissea Fauriei 572, Molokai. Not seen by Rock, Wimmer, or the writer. The genus is otherwise unknown on Molokai.

Rollandia Fauriei 568, Kauai = *Cyanea spathulata* (Hbd.) Heller

Goodeniaceae

X *Scaevola Blinii* 661, Kauai = *S. procera* Hbd.

S. Chamissonis Gaud, var. *caerulescens* 659, Kauai

S. Fauriei 651, Kauai = *S. Taccada* (Gaertn.) Roxb., var. *Fauriei* (L  vl.) St. John

Compositae

Ageratum sandwicensis 940, Maui, not seen, but probably = *A. conyzoides* L.

Campylotheca rutifolia = *Bidens Hillebrandiana* (Drake) Deg. ex Sherff

Cnicus hawaiiensis 963, Hawaii = *Cirsium arvense* L. ? fide Rock

Crepis molokaiensis 974, 976, Molokai = *Hypochoeris radicata* L.

Dubautia Faurie 920, Maui - *D. laxa* H. & A., var. *hirsuta* Hbd.

Lipochaeta asymetrica 960, Oahu = *Bidens asymetrica* (L  vl.) Sherff

L. Fauriei 1,012, Kauai

L. variolosa 1,008, 1,009, Molokai, Kauai = *L. succulenta* (H. & A.) DC., Gardner chose 1,008 as lectotype.

Raillardia Fauriei 1,015, Hawaii = *R. ciliolata* DC., var. *laxiflora* (DC.) Sherff

Literature Cited

L  veill  , (Augustin Abel) Hector

1911. *Plantae novae sandwicensis*, Fedde Repert. 10: 120-124; 149-157.
- 1911a. *Decades plantarum novarum LXXV-LXXIX*, Fedde Repert. 10: 373; LXXX-LXXVI: 442-444; LXXXVII-LXXXVIII: 476.
1912. *Decades plantarum novarum LXXXIX*, Fedde Repert. 32; XC-XCII: 63.
1913. *Decades plantarum novarum CXXVI*, Fedde Repert. 12: 505-506.



St. John, Harold. 1980. "Evaluation of H. Lévillé's new Hawaiian species. Hawaiian plant studies 76." *Phytologia* 45(3), 289–294.

View This Item Online: <https://www.biodiversitylibrary.org/item/48954>

Permalink: <https://www.biodiversitylibrary.org/partpdf/219799>

Holding Institution

New York Botanical Garden, LuEsther T. Mertz Library

Sponsored by

The LuEsther T Mertz Library, the New York Botanical Garden

Copyright & Reuse

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

Rights Holder: Phytologia

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

Rights: <https://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>.