

PLANTS OF THE MANUA ISLANDS

BY
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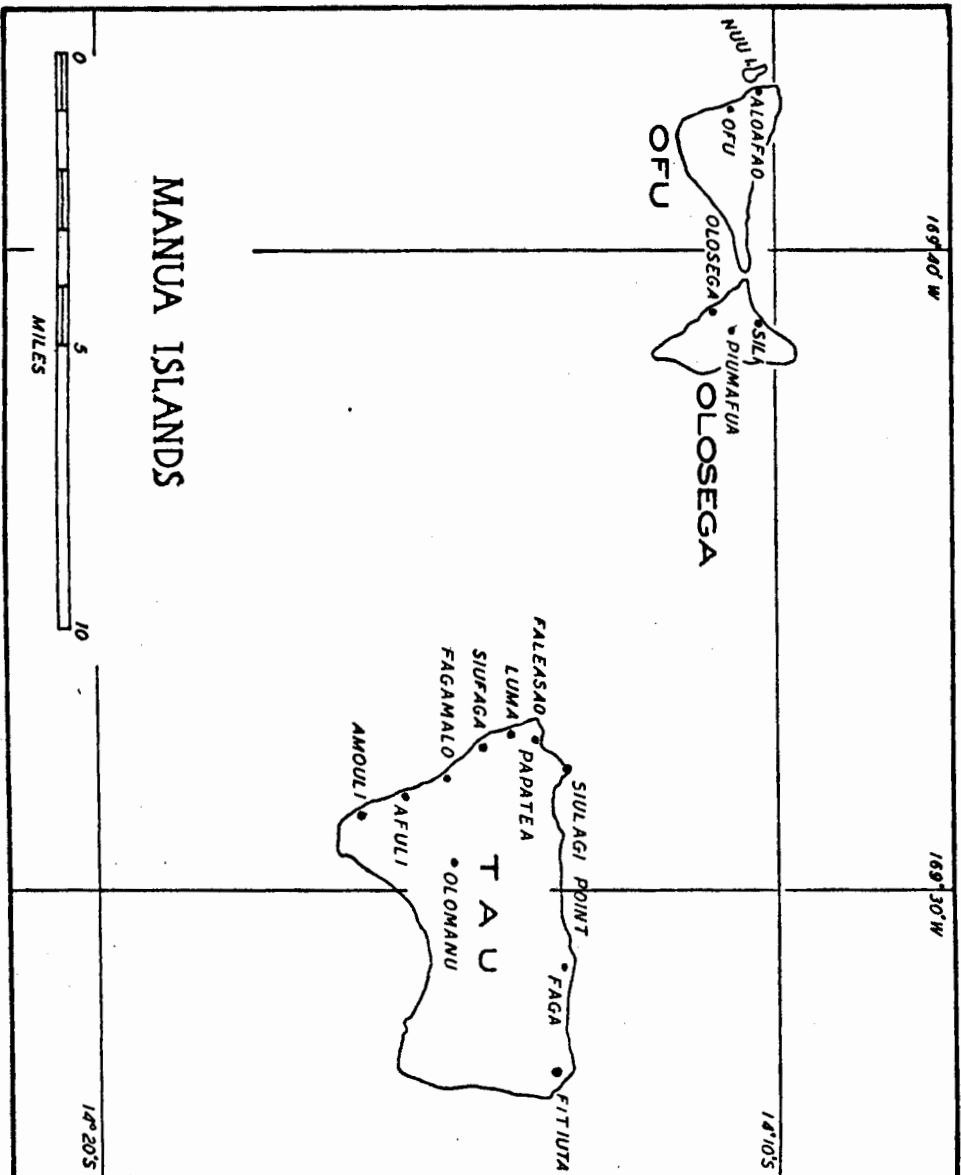
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By T. G. YUNCKER

DEPARTMENT OF BOTANY, DEPAUW UNIVERSITY

INTRODUCTION

The volcanic islands of Ofu, Olosega, and Tau are known collectively as Manua, now part of American (Eastern) Samoa. They are situated between 169 and 170 degrees west longitude and 14 and 15 degrees south latitude and are about 67 miles east of Pago Pago on the island of Tutuila. Tau, containing about 14 square miles, is the largest and attains an altitude of over 900 meters. It is more or less dome shaped with precipitous coasts on the northern and western sides. Ofu and Olosega, only a few miles distant, are rugged and picturesque and are separated from each other by a narrow and shallow strait.

The islands lie outside the regular trade routes and are rarely visited by ships other than occasional small trading vessels or those making official governmental visits. The only white persons residing there are a few connected with the United States Navy Department, which has jurisdiction over the islands, and occasional transient visitors. There are about 2,500 natives living on the three islands, who subsist principally on sea food, bananas, taro, breadfruit, and coconuts. Breadfruit trees grow in large numbers in and about every village. Taro, bananas, and coconuts are extensively cultivated in plantations. Tinned foods are also used to some extent, salmon being a favorite.

The original vegetation has now been exterminated to a large extent on the lowlands and lower hillsides to provide for coconut and banana plantations. It still persists, however, at the higher altitudes and in ravines and other areas too rough for cultivation. The vegetation in these regions, especially on Tau, is exceedingly dense and travel off the trails is difficult.

A number of botanists have made collections on the islands. Among the older collections are those made by Reinecke, Powell, Brackenridge, and McMullen. More recently, collections have been made by D. W. Garber, between 1921 and 1925; by Anna and Wray Harris, mostly during 1938; and by me. I spent several weeks on the islands of Tau and Ofu during October and November of 1939. Christophersen in his *Flowering Plants of Samoa* (B. P. Bishop Mus., Bulls. 128 and 154, 1935 and 1938) cites the collections made by Garber. Aside from this, no attempt at a complete listing of the plants has been made. The Garber and the Harris collections included in the present list, as well as most of the other scattered citations, are in the Bernice P. Bishop Museum herbarium and have been examined by me. I have not seen collections

made by earlier visitors to the islands. They are now mostly in European herbaria and, with a few exceptions, are not included. During the summer of 1939, Paul L. Guest of Honolulu made a survey of the economic trees of American Samoa, including those of Manua. His manuscript report in the Bishop Museum library is not, unfortunately, supported by herbarium materials. However, it has been checked against this list and his observations have been included wherever they extend the range or report a species overlooked by other botanists.

The present list includes 37 species of mosses, 53 species of pteridophytes, 95 species of monocotyledons, and 236 species of dicotyledons, or a total of 421 species. More careful botanizing, particularly at high altitudes on Tau, will probably bring to light several species hitherto overlooked.

The spelling of native names, obtained from natives or from the publications of Christophersen and of Setchell (*Vegetation of Tutuila Island*, Carnegie Inst., Pub. 20, 1924), have been checked by Dr. Peter H. Buck.

The islands were visited and the collections made while I was on an appointment as Bishop Museum Fellow in Yale University. I am deeply indebted to Dr. Peter H. Buck, Director of Bishop Museum, for placing the facilities of the Museum at my disposal and for assistance in arranging the itinerary; to Captain E. W. Hanson, then Governor of American Samoa, and the other officers and men of the United States Navy stationed in the islands for transportation to Manua from Pago Pago and for the many kindnesses and courtesies which were shown me while in Samoa; and to Chiefs Tufele and Lafite of Tau who placed a guest house at my disposal during my stay on the island and who assisted in my work in every way possible.

I am also indebted to a number of specialists who have cooperated in the identifications of the specimens and have contributed bibliographic data. Miss Marie Neal, botanist at Bishop Museum, assisted in the preliminary identification of much of the material and helped in making comparisons with specimens in the Museum herbarium; Mr. E. B. Bartram contributed the list of mosses; Dr. E. B. Copeland named the ferns, except those collected by Garber and Harris and identified by Dr. Carl Christensen; Dr. F. R. Fosberg identified a number of specimens, particularly those in the Rubiaceae and Ebenaceae, and in addition made a number of nomenclatorial suggestions; Mrs. Agnes Chase named the grasses; Dr. L. O. Williams identified the orchids; Mr. Hugh O'Neill identified the sedges; Dr. E. D. Merrill and Dr. A. C. Smith named a number of sterile or otherwise obscure specimens; Dr. Leon Croizat supplied the description of a new species of *Securinega*; and Dr. H. W. Rickett and Mr. C. V. Morton contributed nomenclatorial data. To all who have assisted in any way I wish to express my thanks.

BRYOPHYTA

MUSCI¹

This list of species from the Manua islands represents a substantial and interesting addition to the moss flora of Samoa. With two minor exceptions, the collections are all from the larger island of Tau and no doubt give a fairly complete outline of the mosses of this outlying region. At least nine species are new to Samoa, as far as I know; and four reductions to synonymy are proposed based on the information at hand.

One cannot fail to be impressed with the strong west to east course of geographical distribution shown in the list of species. This is especially true of *Calymperes*, a genus with marked insular tendencies, and may indicate a continuous land connection from Malaysia through Polynesia at no very remote period.

FAMILY FISSIDENTACEAE

Genus *Fissidens* Hedwig

Fissidens mangarevensis Montagne, Voy. au Pôle Sud, Crypt., 344, 1845.

Tau: on tree trunk in forest, alt. about 150 m., Oct. 1, 1939, *Yuncker 9154*; Palapala, gulch above Palapala Hill, on mountainside, damp native forest, banks of dry stream on trunks of tree fern and other trees, 1.5 miles from shore, alt. 270-300 m., *W. Harris 54b*.

New to Samoa. Distribution: Mangareva, Austral Islands, Rapa, Fiji, Solomon Islands.

FAMILY LEUCOBRYACEAE

Genus *Leucophanes* Hampe

Leucophanes candidum (Hornschuch) Lindberg, Oefvers. Vet. Akad. Förh., 602, 1854.

Tau: north slope of Lepue, near summit of cone, under cover of forest, on lava boulder, one third mile from shore, alt. 285 m., *W. Harris 1759*.

Distribution: Ceylon, Malaysia, New Guinea, Philippines, Fiji.

Leucophanes pungens Fleischer, unpublished manuscript.

Tau: Tunoa Peak, summit, ridge, medium damp, one eighth mile from shore, alt. 189 m., growing on dead logs in forest, *W. Harris*.

Distribution: Fiji.

Genus *Exodictyon* Cardot

Exodictyon scabrum (Mitten) Cardot, Rev. Bryol., 7, 1899.

Tau: Faleulu draw, hillside, in native forest on living tree trunks, damp, 1 mile from shore, alt. 480 m., *W. Harris*.

¹ Contributed by Edwin B. Bartram.

Exodictyon dentatum (Mitten) Cardot, Rev. Bryol., 7, 1899.

Tau: Faleulu Valley, south of Muao's house, on damp dead wood, light forest, hillside, moderate slope, 0.75 mile to shore, alt. 210 m., *W. Harris* 404; Palapala, gulch above Palapala Hill, on mountainside, damp native forest, banks of a dry stream, on trunks of tree ferns and other trees 1.5 miles from shore, alt. 270-300 m., *W. Harris* 53.

Distribution: Tahiti, New Hebrides, New Caledonia.

FAMILY CALYMPERACEAE

Genus *Calymperes* Swartz

Calymperes hyophylaceum C. Müller, in Besch. Essai Calymp. Sci. Nat., Ann. VIII, Bot. 1: 287, 1895.

Tau: Papatea, South Cove, lower edge of forest, steep hillside, crater rim, 5-30 feet from shore, alt. 1.5-6 m., growing on lower trunks of coconut tree and exposed foot of forest tree, *A. Harris* 418; Papatea, South Cove, on tuff at shore, under lower edge of strand forest, damp crater rim, steep hillside, 5-30 feet from shore, *A. Harris* 464; upper Luma plantation, east of pig fence, along Vaosa trail, plantation in amphitheater plateau, moderate slope, damp, 2-10 feet above ground on trunks of coconut and breadfruit trees, 0.75 mile from shore, alt. 90 m., *W. Harris* 444a.

New to Samoa. Distribution: Sumatra, Java, Philippines.

Calymperes samoanum Bescherville, Essai Calymp. Sci. Nat., Ann. VIII, Bot. 1: 302, 1895.

Tau: Judds Crater, northwest rim, on trunks and limbs of trees, in damp, rather open forest, 0.75 mile to shore, alt. 150 m., *W. Harris* 413, 414; on coconut tree, alt. 250-300 m., *Yuncker* 9243.

Endemic.

Calymperes strictifolium (Mitten) Roth, Hedwigia 51: 127, 1911.

Syrrhopodon tuberculosus Dixon and Theriot, Linn. Soc. Bot., Jour. 43: 303, 1916.

Tau: Tavalogi Ridge, west end, ridge summit, under light forest cover, moss taken from north face of tuff capping, medium damp, one eighth mile from sea, alt. 143 m., *W. Harris*; Tavalogi Ridge, west end, north face, summit of ridge, cliff face, under forest, medium dry, on tuff rock, one eighth mile from shore, alt. 100 m., *W. Harris*; Faleulu Valley, one eighth mile south of Muao's house, growing on dead logs and fallen wood lying on moist soil under cover of light forest, hillside, gentle slope, 0.75 mile from shore, alt. 213 m., *Harris* 436b.

Upon examination of part of the type collection of this species, the highly characteristic tuberculate costa and leaf margins at once suggested a close relationship with *S. tuberculosus* Dixon and Theriot. Further comparisons failed

to reveal any noteworthy distinctions. Dixon has compared the type material of his species with *C. strictifolium* and agrees that they are conspecific. Under the circumstances, *S. tuberculosus* safely can be reduced to synonymy. It is odd that Mitten failed to mention the striking character that at once distinguishes this very individual species.

Distribution: Borneo, Philippines, Fiji.

Calymperes porrectum Mitten, Linn. Soc. Bot., Jour., 172, 1869.

Calymperes salakense Bescherele, Essai Calymp. Sci. Nat., Ann. VIII, Bot. 1: 302, 1895.

Tau: on coconut tree trunk, along Luma-Faleasao trail, alt. 45-50 m., Sept. 30, 1939, *Yuncker 9140*; Faleulu Valley, one eighth mile south of Muao's house, growing on dead logs and fallen wood lying on moist soil under cover of light forest, hillside, gentle slope, 0.75 mile from shore, alt. 213 m., *W. Harris 436a*.

As far as I can see, the Samoan collections agree perfectly with *C. salakense* Bescherele. Fleischer evidently recognized this agreement (*Laubmoosflora v. Java*, p. 252) but he erroneously cites *C. porrectum* Bescherele instead of *C. porrectum* Mitten. As Mitten's name was published in 1869, it has unquestioned priority and *C. salakense* Bescherele should be reduced to synonymy.

Distribution: Malacca, Java, New Guinea, Philippines.

Calymperes Dozyanum Mitten, Linn. Soc., Jour., Suppl. 1 (Musc. Ind. Or.): 42, 1859.

Tau: on coconut tree trunk, along Luma-Faleasao trail, alt. 45-50 m., Sept. 30, 1939, *Yuncker 9140a*.

New to Samoa. Distribution: Ceylon, Sumatra, Java, Borneo, Philippines.

Calymperes moluccense Schwaegrichen, Suppl. 2(2): 99, pl. 127, 1824.

Tau: upper Luma plateau, east of pig fence, along Vaosa trail, plantation in amphitheater plateau, moderate slope, damp, 2-10 feet above ground on trunks of coconut and breadfruit trees, 0.75 mile to shore, alt. 90 m., *W. Harris 444*.

New to Samoa. Distribution: Moluccas, Fiji.

Calymperes Vreisi Bescherele, Essai Calymp. Sci. Nat., Ann. VIII, Bot. 1: 307, 1895.

Tau: just south of Falemai, on face of cliffs, 6 m. below top, Fitiuta trail, on surface of massive lava boulders, 800 feet from beach, alt. 36 m., *W. Harris 682b*.

New to Samoa. Distribution: Celebes, Marquesas Islands.

Calymperes tahitense (Sullivant) Mitten, Linn. Soc. Bot., Jour. 10: 172, 1869.

Tau: Judds Crater, northwest rim, on trunks and limbs of trees in damp, rather open forest, 0.75 mile to shore, alt. 168 m., *Harris 413a*; Faleulu Valley,

one eighth mile south of Muao's house, 0.75 mile from shore, alt. 204 m., growing on trunks of live trees, 1-8 feet above ground in medium damp, open forest, on gentle slope, foot of mountains, *W. Harris 423*; Faleulu Valley, woodland south of Muao's plantation, 0.75 mile from shore, alt. 204 m., growing on damp lava rock bed of small intermittent stream, on hillside in damp, rather open forest, moderate slope, *W. Harris 439*; upper Luma plantation, east of pig fence, along Vaosa trail, plantation in amphitheater plateau, moderate slope, damp, 2-10 feet above ground, on trunks of coconut and breadfruit trees, 0.75 mile from shore, *W. Harris 444b*.

Distribution: Java, Borneo, Philippines, Fiji, Tahiti.

Calymperes serratum A. Braun, in C. Müller, Syn. 1: 527, 1849.

Tau: Palapala gulch above Palapala Hill, on mountainside, damp native forest, banks of dry stream, on trunks of tree ferns and other trees, 1.5 miles from shore, alt. 270-300 m., *W. Harris 58*.

Distribution: Malaysia, East China, Philippines, New Caledonia, Fiji.

FAMILY POTTIACEAE

Genus *Hyophila* Bridel

Hyophila involuta (Hooker) Jaeger, Adumb. 1: 202, 1871-1872.

Hyophila samoana Mitten, Sam. M., 193, 1871.

Tau: Faleasao, old beach flats, middle section behind Falepopo, growing on tuff at lower edge of talus, under plantation trees, damp, 450 feet from shore, alt. 4-5 m., *W. Harris*.

I have not seen the original of *H. samoana* Mitten, but the present collection is apparently typical and differs in no important particulars from *H. involuta*. I have expressed the thought (Mosses of the Philippines, Philip. Jour. Sci. 68: 114, 1939) that *H. involuta* in a broad sense probably has a wide distribution and an extensive synonymy.

Distribution: India, eastern China, Philippines, and probably wider.

FAMILY DREPANOPHYLLACEAE

Genus *Mniomalina* C. Müller

Mniomalina semilimbata (Mitten) C. Müller, Mus. Godeffroy, Jour. 5: 60, 1873-1874.

Tau: Luma, cliffs east of dispensary, open forest, medium damp, 1,500 feet from shore, alt. 39 m., *W. Harris 51*; Judds Crater, midway between bottom of pit and northwest rim, under forest and plantation cover, on talus below cliff, on rotten log, damp, alt. 135 m., *W. Harris*.

Distribution: Sumatra, Borneo, Philippines, New Guinea.

FAMILY SPIRIDENTACEAE

Genus *Spiridens* Nees

Spiridens aristifolius Mitten, Linn. Soc. Bot., Jour. 10: 193, 1869.

Tau: on tree in moist forest, west slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker 9258*; Faleulu Valley, one eighth mile south of Muao's house, on dead logs and sticks lying on moist soil, gentle slope, hillside, 0.75 mile from shore, alt. 216 m., *W. Harris 114*; Faleulu Draw, damp shallow draw on steep mountainside, in forest, growing on tree trunks 1-8 feet above ground, 1.5 miles from shore, alt. 540 m., *W. Harris*.

Distribution: Fiji.

FAMILY ORTHOTRICHACEAE

Genus *Macromitrium* Bridel

Macromitrium semipellucidum Dozy and Molkenboer, Sci. Nat., Ann. 2: 311, 1844.

Tau: Palapala, gulch above Palapala Hill, on mountainside, damp native forest, banks of dry stream, on trunks of tree ferns and other trees, 1.5 miles from shore, alt. 270-300 m., *W. Harris 56*; Faleulu Valley, one eighth mile south of Muao's house, growing on trunks of living trees in light forest, damp situation, hillside, gentle slope, 1.5 miles from shore, alt. 210 m., *A. Harris 182*.

Distribution: Sumatra, Borneo, Philippines, New Guinea.

FAMILY PTEROBRYACEAE

Genus *Garovaglia* Endlicher

Garovaglia Powellii Mitten, Linn. Soc. Bot., Jour. 10: 169, 1869.

Tau: Palapala, gulch above Palapala Hill, on mountainside, damp native forest, banks of dry stream, on trunks of tree ferns and other trees, 1.5 miles from shore, alt. 270-300 m., *W. Harris 54a*; Faleulu Valley, one eighth mile south of Muao's house, growing on trunks of living trees in light forest, damp situation, hillside, gentle slope, one to one eighth mile from shore, alt. 210 m., *A. Harris 181*.

The spines on the back of the leaf are confined to the edges of the plicae and easily overlooked. The best way to view them is to put part of the stem under a cover glass when some of the leaves will show the edges of the folds in profile.

Endemic.

FAMILY METEORIACEAE

Genus *Floribundaria* C. Müller

Floribundaria aeruginosa (Mitten) Fleischer, Hedwigia 44: 302, 1905.

Tau: trail to peak back of Luma, at side of gulch, on damp rocks, alt. 300 m., *Garber 715a*; Luma cliffs, east of dispensary, on large lava boulders,

partly shaded, medium damp, south side of trail under open forest, 1,500 feet from shore, alt. 39 m., *W. Harris 128*.

Olosega: Olosegauta-Piunafua Ridge, on mossy tree trunk, alt. 510 m., *Garber 1080a*.

Distribution: Fiji, Tahiti.

FAMILY NECKERACEAE

Genus *Himantocladium* (Mitten) Fleischer

Himantocladium implanum (Mitten) Fleischer, *Laubmfl. Java* 3: 886, 1907.

Tau: Palapala, gulch above Palapala Hill, on mountainside, damp native forest, banks of dry stream, on trunks of tree ferns and other trees, 1.5 miles from shore, alt. 270-300 m., *W. Harris 57*.

Distribution: Fiji, Rapa.

Genus *Pinnatella* (C. Müller) Fleischer

Pinnatella Kuhlana (Bryol. Jav.) Fleischer, *Hedwigia* 45: 80, 1906.

Tau: Afuli, Fagamalo beach trail, forest cover is strand trees (mostly *fau* and *futu*), moss from lava boulders in talus below shore cliffs, 30 feet from upper beach line, alt. 6 m., *W. Harris*.

Distribution: Sumatra, Java, Celebes, Ceram, New Guinea, Tahiti.

FAMILY HOOKERIACEAE

Genus *Callicostella* (C. Müller) Mitten

Callicostella papillata (Montagne) Mitten, *Linn. Soc. Jour., Suppl. 1* (Musc. Ind. Or.): 136, 1859.

Tau: Faleulu Valley, one eighth mile south of Muao's house, growing on dead logs and fallen wood lying on moist soil under cover of light forest, hillside, gentle slope, 0.75 mile from shore, alt. 213 m., *W. Harris 436d*.

Distribution: India, Sumatra, Java, Borneo, Philippines, Pacific islands.

FAMILY THUIDIACEAE

Genus *Pelekium* Mitten

Pelekium velatum Mitten, *Linn. Soc. Bot., Jour.* 10: 176, 1869.

Tau: Tavalogi Ridge, west end, ridge summit, under light forest cover, moss taken from north face of tuff capping, medium damp, one eighth mile from sea, alt. 143 m., *W. Harris*.

Distribution: Malay Peninsula, Siam, Malaysia, Philippines.

Genus *Thuidium* Bruch and Schimper

Thuidium samoanum Mitten, *Linn. Soc. Bot., Jour.* 10: 186, 1869.

Tau: Afuli-Fagamalo beach trail, talus on steep hillside below shore cliffs,

strand forest mainly *fau* and *futu* trees, 30 feet from shore, alt. 6 m., *W. Harris 684a*; Afuli-Fagamalo beach trail, forest cover is strand trees (mostly *fau* and *futu*), moss from lava boulders in talus below shore cliffs, 30 feet from upper beach line, alt. 6 m., *W. Harris*; Faleulu Valley, woodland, south of Muao's plantation, 0.75 mile from shore, alt. 204 m., growing on damp lava bed of small intermittent stream, on hillside in damp rather open forest, moderate slope, *W. Harris 438*.

Distribution: Solomon Islands, Fiji.

Thuidium cymbifolium (Dozy and Molkenboer) Bryol. Java, Bryol. Java 2: 115, 1865.

Tau: Palapala stream above Palapala Hill, gulch on north slope of Vaoaimanu Mt., below Olomanu, on rock on stream bank under native forest cover, 1.5 miles to shore, alt. 270-300 m., *W. Harris 395*.

Distribution: Malaysia, Philippines, Formosa, Lord Howe Island, New Guinea, China, Japan.

FAMILY BRACHYTHECIACEAE

Genus *Rhynchostegium* Bruch and Schimper

Rhynchostegium vitianum Bartram and Dixon, B. P. Bishop Mus., Occ. Papers 11(20): 18, 1936.

Tau: Faleulu Valley, woodland south of Muao's plantation, 0.75 mile from shore, alt. 204 m., growing on damp lava rock bed of intermittent stream, on hillside in damp rather open forest, moderate slope, *W. Harris 437a*.

New to Samoa. Distribution: Fiji, Austral Islands.

FAMILY SEMATOPHYLLACEAE

Genus *Acroporium* Mitten

Acroporium sigmatodontium (C. Müller) Fleischer, Laubmfl. Java 4: 1281, 1918.

Tau: Palapala, gulch above Palapala Hill, on mountainside, damp native forest, banks of dry stream, on trunks of tree ferns and other trees, 1.5 miles from shore, alt. 270-300 m., *W. Harris 54*.

Apart from the relatively shorter setae there are apparently no other characters distinguishing *A. brevisetulum* (C. Müller) Jaeger from *A. sigmatodontium*. The variety *brachypodium* (Dixon) Bartram is a parallel form, so I think that *A. brevisetulum* may be safely dropped.

Distribution: Ceylon, Sumatra, Java, New Guinea, Philippines, Tahiti.

Genus *Taxithelium* Spruce

Taxithelium samoanum (Mitten) Brotherus, Engler and Prantl, Nat. Pflanzenfam. I, 3: 1091, 1908.

Tau: Faleulu Valley, one eighth mile south of Muao's house, growing on dead logs and fallen wood lying on moist soil under cover of light forest, hillside, gentle slope, 0.75 mile from shore, alt. 213 m., *A. Harris 176a*.

Endemic.

Taxithelium tenuisetum (Sullivant) Mitten, Fl. Vit., 397, 1871.

Tau: Faleulu Valley, one eighth mile south of Muao's house, growing on dead logs and fallen wood lying on moist soil under cover of light forest, hillside, gentle slope, 0.75 mile from shore, alt. 213 m., *W. Harris 436c*.

Ofu: on rotten log, along southeastern shore trail, alt. 5 m., Nov. 26, 1939, *Yuncker 9517*.

Distribution: Fiji, Niue Island.

FAMILY HYPNACEAE

Genus *Ectropothecium* Mitten

Ectropothecium sodale (Sullivant) Mitten, Linn. Soc. Bot., Jour. 10: 180, 1869.

Tau: Faleulu Valley, one eighth mile south of Muao's house, growing on dead logs and fallen wood lying on moist soil under cover of light forest, hillside, gentle slope, 0.75 mile from shore, alt. 213 m., *W. Harris 156, 436, 403; A. Harris 176*.

Distribution: Fiji, Tahiti.

Ectropothecium incubans (Reinwardt and Hornschuch) Jaeger var. *scaberulum* (Brotherus) Fleischer, Laubmfl. Java 4: 1410, 1922.

Tau: Palapala, gulch above Palapala Hill, on mountainside, damp native forest, banks of dry stream, on trunks of tree ferns and other trees, 1.5 miles from shore, alt. 270-300 feet, *W. Harris 55*.

New to Samoa. Distribution: Java, Fiji.

Ectropothecium adnatum Brotherus, unpublished manuscript.

Tau: Faleulu Valley, Muao's plantation, south of house, in rocky soil under coconut, breadfruit, and banana trees, medium damp soil, hillside, moderate slope, 0.5 mile from shore, alt. 195 m., *W. Harris 375*; Faleulu Valley, one eighth mile south of Muao's house, 0.75 mile from shore, alt. 204 m., growing on trunks of live trees, 1-8 feet above ground, in medium damp open forest, on gentle slope, foot of mountains, *W. Harris 422*; Faleulu Valley, one eighth mile south of Muao's house, growing on trunks of living trees in light forest, damp situation, hillside, gentle slope, one eighth mile from shore, alt. 210 m.,

A. Harris 180; Papatea, South Cove, alt. 1.5-6 m., taken on tuff, damp lower edge of strand forest, 5-30 feet from shore, *W. Harris 407*; on old log in forest south of Siufaga, alt. 300 m., Oct. 4, 1939, *Yuncker 9236, 9244*.

New to Samoa. Distribution: Solomon Islands, Fiji, Niue Island.

Ectropothecium cyathothecium (C. Müller) Brotherus, Engler and Prantl, *Nat. Pflanzenfam. I, 3: 1066, 1908*.

Tau: Faleulu Valley, one eighth mile south of Muao's house, on dead logs and sticks lying on moist soil, gentle slope, hillside, 0.75 mile from shore, alt. 216 m., *W. Harris 116*.

Distribution: Fiji.

Ectropothecium malacoblastum (C. Müller) Jaeger, *Adumb. 2: 526, 1877-1878*.

Tau: Faleulu Valley, woodland south of Muao's plantation, 0.75 mile from shore, alt. 204 m., growing on damp lava rock bed of small intermittent stream on hillside in damp rather open forest, moderate slope, *W. Harris 437, 138*; Faleulu, Muao's plantation, alt. 168 m., growing on rock wall under cover of plantation, 0.5 mile from shore, *A. Harris 160*; Palapala stream above Palapala Hill, gulch on north slope of Mt. Vaoaimanu below Olomanu, on rock on stream bank under native forest cover, 0.5 mile to shore, alt. 270-300 m., *W. Harris 394*.

Distribution: Fiji.

Genus *Vesicularia* C. Müller

Vesicularia tahitensis (Ångström) Brotherus, Engler and Prantl, *Nat. Pflanzenfam. I, 3: 1094, 1908*.

Tau: Judds Crater, northwest rim, spur rim, south exposure, under light forest cover of tree ferns and other trees, cliff face, growing on volcanic cinders, 0.5 mile from shore, alt. 165 m., *W. Harris 1764b*.

New to Samoa. Distribution: Tahiti, Rapa, Pitcairn Island.

Vesicularia inflectens (Bridel) C. Müller, *Engl. Bot. Jahrb. 23: 330, 1892*.

Tau: south side of South Cove, Papatea, rocky point, foot of hill, lower edge of strand forest at beach, growing on tuff rock, 5-20 feet from shore, alt. 3-4.5 m., *W. Harris 313*; just south of Falemai, on face of cliffs, 20 feet below top, Fitiuta trail, on surface of massive lava boulders, 800 feet from beach, alt. 36 m., *W. Harris 682c*; Judds Crater, bottom of pit, on lava boulders, under cover of shrubs, fern and mixed plantation and forest trees, 0.5 mile from shore, alt. 114 m., *W. Harris*; Afuli-Fagamalo beach trail, forest cover is strand trees (mostly *fau* and *futu*), moss from lava boulders in talus below shore cliffs, 30 feet from upper beach line, alt. 6 m., *W. Harris*.

Distribution: Hong Kong, Borneo to Rapa and Austral Islands.

PTERIDOPHYTA

PSILOPHYTINAE

FAMILY PSILOTACEAE

Genus *Psilotum* Swartz

Psilotum complanatum Swartz, Syn. Fil., 118, 414, pl. 4, 1806.

Tau: epiphytic on tree fern, in moist ravine, alt. 200 m., Sept. 25, 1939, *Yuncker 9016*; alt. 250 m., Sept. 27, 1939, *Yuncker 9075*; Amouli trail, alt. 180 m., Sept. 16, 1921, *Garber 626*; trail to peak back of Tau, alt. 360 m., Jan. 28, 1922, *Garber 716*; Faleulu Valley, in light forest, alt. 210 m., July 27, 1938, *W. Harris 158*.

LYCOPODINAE

FAMILY LYCOPODIACEAE

Genus *Lycopodium* Linnaeus

Lycopodium carinatum Desvaux, in Poiret, Encycl. Méth., Suppl. 3: 555, 1814.

Tau: pendent from tree branches in damp ravine south of Siufaga, alt. 350 m., Sept. 27, 1939, *Yuncker 9073*.

Lycopodium Phlegmaria Linnaeus, Sp. Pl., ed. 2, 1564, 1763.

Tau: epiphytic on rotten tree trunk in damp ravine, alt. 200 m., Sept. 27, 1939, *Yuncker 9071, 9074*. Native name, *la'au fai pale*.

Lycopodium squarrosum Forster f., Fl. Ins. Austr. Prodr. 86, no. 479, 1786.

Tau: epiphytic on tree branch in damp ravine, alt. 250 m., Sept. 27, 1939, *Yuncker 9072*; on rotten log in forest on west slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker 9247*. Native name, *lau talatala*.

FAMILY SELAGINELLACEAE

Genus *Selaginella* Spring

?*Selaginella Reineckei* Hieronymus, in Engler and Prantl, Nat. Pflanzenfam. I, 4: 678, 1902.

Tau: in moist, shady ravine on slope south of Siufaga, alt. 150 m., Sept. 27, 1939, *Yuncker 9069*; in deep forest, slope south of Siufaga, alt. 150 m., Oct. 1, 1939, *Yuncker 9159*; in deep, moist forest 2 miles south of Siufaga, alt. 300 m., Oct. 1, 1939, *Yuncker 9151*; in deep moist ravine on south slope of Siufaga, alt. 150 m., Sept. 25, 1939, *Yuncker 9030*; Amouli trail, alt. 165 m., Sept. 16, 1921, *Garber 618*; trail back of Luma, alt. 240 m., Jan. 28, 1922, *Garber 713*.

Ofu: on moist forest floor, main ridge, alt. 250 m., Nov. 27, 1939, *Yuncker 9537*. Native name, *la'au vao*.

Selaginella Whitmeei Baker, Jour. Bot. 23: 24, 1885.

Tau: Powell 38; Amouli trail, alt. 180 m., Sept. 16, 1921, Garber 625.

FILICINAE

FAMILY OPHIOGLOSSACEAE

Genus *Ophioglossum* Linnaeus

Ophioglossum pendulum Linnaeus, Sp. Pl., ed. 2, 2: 1518, 1763.

Tau: epiphyte in moist ravine on mountain slope south of Siufaga, alt. 200 m., Sept. 27, 1939, Yuncker 9078; epiphyte, Amouli trail, alt. 135-150 m., Sept. 16, 1921, Garber 616; 632. Native name, *laugapapa* (also used for *Asplenium nidus* L.).

FAMILY MARATTIACEAE

Genus *Angiopteris* Hoffmann

Angiopteris evecta (Forster) Hoffmann var. *Vaupellii* Hieronymus, Hedwigia 61: 250, 1919.

Tau: plateau back of Faleasao, alt. 180 m., Aug. 4, 1921, Garber 579. Abundant on all islands, Guest. Native name, *oli oli*.

Genus *Marattia* Swartz

Marattia Smithii Mettenius, Kuhn, Ferh. zool. bot. Fes. 19: 584, 1869.

Olosega: top of Piumafua mountain, alt. 600 m., June 17, 1925, Garber 1053.

FAMILY GLEICHENIACEAE

Genus *Dicranopteris* Bernhardt

Dicranopteris linearis (Burman) Underwood, Torrey Bot. Club, Bull. 34: 250, 1907.

Ofu: trailing over edge of cliff, slope back of Ofu village, alt. 240 m., Nov. 25, 1939, Yuncker 9450.

Olosega: Olosegauta-Piumafua ridge, alt. 480 m., June 17, 1925, Garber 1078. Native names, *vaomu*, *vao taumanamana*.

FAMILY SCHIZAEACEAE

Genus *Schizaea* Smith

Schizaea dichotoma (Linnaeus) Smith, Ac. Turin, Mém. 5: 422, pl. 9, fig. 9, 1793.

Tau: in deep forest on western slope of Mt. Vaoaimanu, alt. 300 m., Oct. 5, 1939, Yuncker 9262; Amouli trail, alt. 180 m., Sept. 16, 1921, Garber 626a.

Ofu: on moist forest floor on main ridge, alt. 350 m., Nov. 27, 1939, *Yuncker 9525*; Feaia Point, alt. 90 m., May 25, 1925, *Garber 974*.

Olosega: Olosegauta-Piunafua ridge, alt. 420 m., June 17, 1925, *Garber 1083*.

FAMILY HYMENOPHYLLACEAE

Genus *Trichomanes* Linnaeus

Trichomanes apiifolium Presl, Hym., 16, 44, 1843.

Tau: on decayed tree trunk, below peak back of Tau, alt. 525 m., Jan. 28, 1922, *Garber 722*; on tree trunk, alt. 630 m., Jan. 28, 1922, *Garber 740*; on the ground, alt. 630 m., Jan. 28, 1922, *Garber 743*; at alt. 600 m., Jan. 28, 1922, *Garber 757*.

Olosega: Olosegauta-Piunafua ridge, alt. 540 m., June 17, 1925, *Garber 1042*.

Trichomanes assimile Mettenius, Kuhn, Linnaea 35: 386, 1868.

Tau: in damp moss on tree trunk, trail to peak back of Tau, alt. 420 m., Jan. 28, 1922, *Garber 718*.

Trichomanes bipunctatum Poiret, in Lamarck, Encycl. Méth. 8: 69, 1808.

Tau: on mossy tree trunk, below peak back of Tau, alt. 630 m., Jan. 28, 1922, *Garber 741*.

Trichomanes Boryanum Kunze, Farrnkr. 1: 237, pl. 97, 1847.

Tau: on wet rocks in shady ravine on slope two miles south of Siufaga, alt. 50 m., Sept. 25, 1939, *Yuncker 9017*; Amouli trail, alt. 165 m., Sept. 16, 1921, *Garber 621*; trail to peak back of Luma, alt. 300 m., Jan. 28, 1922, *Garber 715*.

Trichomanes dentatum van den Bosch, Nederl. Kruidk. Arch. 51: 182, 1861.

Olosega: *Reinecke 66*; on mossy tree trunk, top of Piunafua mountain, alt. 630 m., June 17, 1925, *Garber 1052*; on mossy tree trunk, Piunafua ridge, alt. 570 m., June 17, 1925, *Garber 1057*.

Trichomanes Endlicherianum Presl, Epim. Bot., 10, pl. 5A, 1849-51.

Tau: *Powell 155*.

Ofu: *Reinecke 43d*.

Trichomanes humile Forster f., Fl. Ins. Austr. Prodr., 12, 1786.

Tau: on moist rocks and tree trunks along Fitiuta trail, Sept. 26, 1939, *Yuncker 9057*; on rotten log in moist, shady ravine, alt. 45 m., Sept. 25, 1939, *Yuncker 9001*; on volcanic cinders, northwest rim of Judds Crater, alt. 165 m., June 17, 1937, *W. Harris 1764a*; northwest rim of Judds Crater, on trunks of trees, alt. 170 m., July 27, 1938, *W. Harris*; on face of cliffs just south of Falemai, Fitiuta trail, alt. 36 m., April 3, 1937, *W. Harris 682a*; gulch above Pala-

pala Hill, alt. 270-300 m., July 10, 1938, *W. Harris*; on face of lava cliff behind Luma, alt. 45 m., July 24, 1938, *W. Harris*; on damp mossy rock at base of tree along rocky stream bed, Amouli trail, alt. 180 m., Sept. 16, 1921, *Garber 628*.

Olosega: Olosegauta-Piunafua ridge, on mossy tree trunk, alt. 510 m., June 17, 1925, *Garber 1081*.

Trichomanes intermedium van den Bosch, Nederl. Kruidk. Arch. 5: 179, 1861.

Tau: below peak back of Tau, alt. 585 m., Jan. 28, 1922, *Garber 729*; gulch above Palapala Hill, on tree trunks, alt. 270-300 m., July 10, 1938, *W. Harris*.

Olosega: Olosegauta-Piunafua ridge, alt. 570 m., June 17, 1925, *Garber 1063*.

Trichomanes pallidum Blume, Enum., 225, 1828.

Manua: *Nightingale* (type of *T. glaucofuscum* Hooker, Night. Ocean. Sketch., App. 131, 1835, in Kew).

Trichomanes saxifragoides Presl, Hym. 16, 39, 1843.

Tau: in damp moss on tree fern trunk, slope back of Tau, alt. 645 m., Jan. 28, 1922, *Garber 744*.

Manua: *Powell 181*.

Genus *Hymenophyllum* Smith

Hymenophyllum formosum Brackenridge, U. S. Expl. Exped., Bot. 16: 268, pl. 32, fig. 3, 1854.

Tau: below the peak back of Tau, alt. 570 m., Jan. 28, 1922, *Garber 759*.

Olosega: on mossy tree trunk near top of Piunafua mountain, June 17, 1925, *Garber 1060*.

Hymenophyllum polyanthos Swartz, Jour. Bot. Schrad. 2: 100 (1800) 1801.

Tau: epiphytic, in dense, wet forest on west slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker 9256*; on damp tree trunk below peak back of Tau, alt. 585 m., Jan. 28, 1922, *Garber 727*; also at 615 m., *Garber 737*; Faleulu draw, on hillside on trees, alt. 480 m., Sept. 24, 1936, *W. Harris*.

Manua: *Reinecke 175*.

Hymenophyllum praetervisum Christ, Bot. Jahrb. 23: 338, 1896.

Manua: *Reinecke 88c*.

FAMILY CYATHEACEAE

Genus *Alsophila* R. Brown

?*Alsophila extensa* (Forster) R. Brown, Prodr. Fl. Nov. Holl. 1: 158, 1810.

Abundant on all islands as reported by Guest in 1939. Native name, *oli oli*.

FAMILY POLYPODIACEAE

Genus *Dryopteris* Adanson

Dryopteris dissecta (Forster) O. Kuntze, Rev. Gen. 2: 812, 1891.

Tau: on moist bank along Luma-Faleasao trail, alt. 50 m., Sept. 30, 1939, *Yuncker* 9137; in damp, rocky soil, hillside, Faleulu valley, alt. 210 m., July 27, 1938, *W. Harris* 383; on lava rock, open forest, cliffs behind Luma village, alt. 39 m., July 24, 1938, *W. Harris* 48; on lava rock in talus at foot of cliff behind Luma village, alt. 8 m., July 13, 1938, *W. Harris* 347.

Ofu: on rocky cliff, slope back of Ofu village, alt. 30 m., Nov. 25, 1939, *Yuncker* 9478.

Dryopteris gongylodes (Schkuhr) O. Kuntze, Rev. Gen. 2: 811, 1891.

Tau: in low, marshy area, alt. 5 m., Oct. 7, 1939, *Yuncker* 9297.

Dryopteris setigera (Blume) O. Kuntze, Rev. Gen. 2: 813, 1891.

Tau: on old lava outcropping, slope south of Siufaga village, alt. 250 m., Oct. 4, 1939, *Yuncker* 9239; on face of lava cliff, behind Luma village, alt. 45 m., July 24, 1938, *W. Harris* 386.

Ofu: in thicket along southeastern shore trail, alt. 5 m., Nov. 26, 1939, *Yuncker* 9498.

Genus *Tectaria* Cavanilles

Tectaria Stearnsii Maxon, Biol. Soc. Washington, Proc. 36: 175, pl. 17, fig. a, 1923.

Ofu: on dry bank along trail on slope back of Ofu village, alt. 240 m., Nov. 25, 1939, *Yuncker* 9455. Native names, *vao tuaniu*, *la'au fai pale*.

Genus *Athyrium* Roth

Athyrium accedens (Blume) Milde, Bot. Zeit., 353, 1870.

Tau: on lava outcropping on slope 1-1.5 mile south of Siufaga, alt. 240 m., Oct. 4, 1939, *Yuncker* 9237; in coconut, breadfruit and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris* 147.

Genus *Blechnum* Linnaeus

Blechnum orientale Linnaeus, Sp. Pl., 1077, 1753.

Tau: in open area along trail on slope south of Siufaga, alt. 60 m., Sept. 25, 1939, *Yuncker* 9011.

Ofu: on clay bank along trail on slope back of Ofu village, alt. 240 m., Nov. 25, 1939, *Yuncker* 9454. Native name, *lau magamaga*.

Genus *Asplenium* Linnaeus

Asplenium laserpitiifolium Lamarck, Encycl. Méth. 2: 310, 1786.

Tau: in dark, wet, cavern-like depression in old lava out-cropping, alt. 250 m., Oct. 4, 1939, *Yuncker* 9240; on lava rocks, cliffs behind Luma village, alt. 39 m., July 24, 1938, *W. Harris* 41. Native name, *vao tuaniu*.

Asplenium Nidus Linnaeus, Sp. Pl., 1079, 1753.

Tau: on lava cliff behind Luma, alt. 45 m., July 24, 1938, *Wray Harris* 123.

Ofu: on rocky cliff, slope back of Ofu village, alt. 45 m., Nov. 25, 1939, *Yuncker* 9474. Native name, *launapapa*.

Genus **Lomagramma** J. Smith

Lomagramma cordipinna Holttum, Gard. Bull. Straits Settlement. 9(2): 202, 1937.

Tau: in damp forest, Faleulu valley, alt. 210 m., July 27, 1938, *W. Harris* 209.

Genus **Nephrolepis** Schott

Nephrolepis biserrata (Swartz) Schott, Gen. Fil., ad. pl. 3, 1834.

Tau: epiphytic on tree in thicket about two miles south of Siufaga, alt. 150 m., Oct. 1, 1939, *Yuncker* 9156.

Nephrolepis hirsutula (Forster) Presl, Tent. Pterid., 79, 1836.

Tau: on moist shady bank along Fitiuta trail, Sept. 26, 1939, *Yuncker* 9044; in moist, rocky ravine on slope about two miles south of Siufaga, alt. 50 m., Sept. 25, 1939, *Yuncker* 9019; on lava rock, cliffs back of Luma village, alt. 39 m., July 24, 1938, *W. Harris* 127; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris* 146.

Genus **Microlepia** Presl

?**Microlepia** species.

Tau: on lava cliff, behind Luma village, alt. 45 m., July 24, 1938, *W. Harris* 384.

Genus **Lindsaya** Dryander

Lindsaya decomposita Willdenow, Sp. Pl. 5: 425, 1810.

Tau: in rich soil of wet, dense forest on west slope of Mt. Vaoaimanu, alt. 500 m., Oct. 5, 1939, *Yuncker* 9259, 9257; epiphytic on tree in wet forest on slope about two miles south of Siufaga, alt. 300 m., Oct. 1, 1939, *Yuncker* 9152.

Genus **Pteris** Linnaeus

Pteris comans Forster, Fl. Ins. Austr. Prodr., 79, 1786.

Tau: in low wet area south of Siufaga, alt. 3 m., Sept. 29, 1939, *Yuncker* 9093; south side of South Cove, Papatea, on tuff, alt. 3-5 m., July 1938, *W. Harris* 315.

Pteris ensiformis Burman f., Fl. Ind., 230, 1768.

Tau: on face of lava cliff, back of Luma village, alt. 45 m., July 24, 1938, *W. Harris* 28.

Ofu: on rocky cliff, slope back of Ofu village, alt. 45 m., Nov. 25, 1939, *Yuncker* 9479. Native name, *lau manamana*.

Pteris tripartita Swartz, Jour. Bot. Schrad. 2: 67 (1800) 1801.

Tau: in coconut plantation, Faleulu valley, alt. 16 m., July 27, 1938, *A. Harris* 144.

Ofu: *Garber* 998; in thicket along southeastern shore trail, alt. 5 m., Nov. 26, 1939, *Yuncker* 9501. Native names, *oli oli*, *lagasese*.

Genus **Acrostichum** Linnaeus

Acrostichum aureum Linnaeus, Sp. Pl., 1069, 1753.

Tau: within a few feet of the sea on a rocky point in Luma, Nov. 5, 1922, *Garber* 782.

Ofu: in soil pocket in lava rocks near the sea along the northwestern shore, alt. 5 m., Nov. 28, 1939, *Yuncker* 9561. Native names, *lau taputa*, *sa'ato*.

Genus **Humata** Cavanilles

Humata heterophylla (Smith) Desvaux, Prodr. fam. foug., 323, 1825.

Tau: epiphytic on trees in shady, damp ravine, south of Siufaga, alt. 150 m., Sept. 27, 1939, *Yuncker* 9068. Native name, *vao sosolo*.

Genus **Davallia** Smith

Davallia solida (Forster) Swartz, Jour. Bot. Schrad. 2: 87 (1800) 1801.

Tau: clinging to tree along Fitiuta trail, Sept. 26, 1939, *Yuncker* 9050.

Ofu: clinging to coconut trees, slope behind Ofu village, alt. 150 m., Nov. 25, 1939, *Yuncker* 9456, 9457. Native name, *vao sosolo i le niu*.

Genus **Arthropteris** J. Smith

Arthropteris oblitterata (R. Brown) J. Smith, Cat. Cult. Ferns, 62, 1827.

Tau: clinging on trees and rocks, alt. 5 m., Oct. 7, 1939, *Yuncker* 9292; open woodland, on trunks of living trees, alt. 210 m., July 27, 1938, *A. Harris* 388; on damp mossy rocks, in bed of intermittent stream, Faleulu Valley, alt. 204 m., July 27, 1938, *W. Harris* 231; on lava rock, talus at foot of cliff behind Luma village, alt. 8 m., July 13, 1938, *W. Harris* 348; on lava cliff behind Luma village, alt. 45 m., July 24, 1938, *W. Harris* 44.

Genus **Cyclophorus** Desvaux

Cyclophorus lanceolatus (Linnaeus) Alston, Jour. Bot. 69: 102, 1931.

Tau: epiphytic on trees along Fitiuta trail, Sept. 26, 1939, *Yuncker* 9055.

Ofu: clinging to coconut tree, slope back of Ofu village, alt. 150 m., Nov. 25, 1939, *Yuncker* 9458.

Genus **Polypodium** Linnaeus

Polypodium blechnoides (Greville) Hooker, Sp. Fil. 4: 180, 1862.

Tau: epiphytic on trees in moist ravine on slope south of Siufaga, alt. 150 m., Sept. 27, 1939, *Yuncker* 9077.

Polypodium Scolopendria Burman f., Fl. Ind., 232, 1768.

Tau: terrestrial and epiphytic, near shore, alt. 5 m., Sept. 25, 1939, *Yuncker 9023*; on lava cliff behind Luma, alt. 45 m., July 24, 1938, *W. Harris 126*.

Ofu: on trees and rocks, slope back of Ofu village, alt. 20 m., Nov. 25, 1939, *Yuncker 9471*. Native name, *fiso vao*.

Polypodium vitiense Baker, Jour. Bot. 17: 298, 1879.

Tau: on old lava rock wall, slope south of Siufaga, alt. 150 m., Oct. 4, 1939, *Yuncker 9238*.

Genus **Prosaptia** Presl

Prosaptia contigua (Forster) Presl, Tent. Pterid., 166, 1836.

Tau: epiphytic on trees in dense, wet forest on west slope of Mt. Vaoai-manu, alt. 450 m., Oct. 5, 1939, *Yuncker 9260*.

Genus **Antrophyum** Kaulfuss

Antrophyum alatum Brackenridge, U. S. Expl. Exped., Bot. 16: 64, 1854.

Tau: on rotten log in thicket near Siufaga, alt. 5 m., Oct. 7, 1939, *Yuncker 9290*; epiphytic on trees in moist ravine along Fitiuta trail, Sept. 26, 1939, *Yuncker 9056*; in damp, rocky soil under light forest cover, hillside, Faleulu valley, alt. 210 m., July 27, 1938, *W. Harris 262, 382X*.

Antrophyum angustatum Brackenridge, U. S. Expl. Exped., Bot. 16: 63, 1854.

Ofu: on rocks in damp forest on central ridge, alt. 300 m., Nov. 27, 1939, *Yuncker 9539*. Native name, *lau talotalo*.

Genus **Vaginularia** Fée

Vaginularia paradoxa (Fée) Mettenius, Mus. Bot. Lugd.-Bat., Ann. 4: 174, 1868-69.

Tau: epiphytic on trees in moist ravine south of Siufaga, alt. 150 m., Sept. 27, 1939, *Yuncker 9070*; on damp, dead wood, in woodland, Faleulu valley, alt. 210 m., July 27, 1938, *W. Harris 405*; on trunks of living trees, light forest, Faleulu valley, alt. 210 m., July 27, 1938, *A. Harris 188*; on lava rock, cliffs back of Luma village, alt. 39 m., July 24, 1938, *W. Harris 133*.

SPERMATOPHYTA

MONOCOTYLEDONEAE

FAMILY PANDANACEAE

Genus **Freycinetia** Gaudichaud

Freycinetia Hombronii Martelli, in Rechingen, Wiss. Forschungsreise nach Samoa, 56, 1910.

Tau: on lava boulder in talus at foot of cliff, cliffs behind Luma village,

July 13, 1938, *W. Harris* 259. This specimen is sterile but it agrees well with specimens of this species in the Bishop Museum herbarium.

Freycinetia Reinecke Warburg, in Reinecke, Fl. Samoa-Inseln, 578, pl. 8, fig. B, 1898.

Tau: climbing in trees in ravine on slope south of Siufaga, alt. 200 m., Sept. 27, 1939, *Yuncker* 9092; near top of peak back of Tau, alt. 660 m., fruit, Jan. 28, 1922, *Garber* 750. Native names, 'ie'ie, lau 'ie'ie.²

Genus ***Pandanus*** Linnaeus

Pandanus calostigma Martelli f. *samoana* Martelli, B. P. Bishop Mus., Occ. Papers 10(13): 9, pl. 2, figs. 1-2, 1934.

Ofu: in old coconut grove, old village site of Mafafa, alt. 4-5 m., May 26, 1925, *Garber* 984.

Pandanus tauensis Martelli, B. P. Bishop Mus., Occ. Papers 10(13): 14, pls. 3, 4, 9, 1934.

Tau: on sandy beach at Faga, alt. 3-4 m., Sept. 11, 1921, *Garber* 665.

Guest reports it as scarce on Ofu. Native name, lau paogo.

Pandanus tectorius Parkinson var. *laevis* (Kunth) Warburg, Pflanzenr. 3 (IV.9): 48, 1900.

Tau: near dwelling, Luma, cultivated, Dec. 15, 1921, *Garber* 662 (apparently this is the specimen cited by Martelli as *Garber* 665). Native names, 'ie toga, lau fala.

FAMILY GRAMINEAE

Genus ***Schizostachyum*** Nees

Schizostachyum glaucifolium (Ruprecht) Munro, Linn. Soc., Trans. 26: 137, 1868.

Tau: small clump near the trail on west slope of Mt. Vaoaimanu, alt. 120 m., Oct. 5, 1939, *Yuncker* 9268.

Ofu: small clump in ridge forest above Ofu village, alt. 360 m., Nov. 27, 1939, *Yuncker* 9521.

Olosega: Piumafua Ridge, alt. 500 m., June 17, 1925, *Garber* 1041. Native names, 'ofe, 'ofe samoa.

Genus ***Eragrostis*** Beauvois

Eragrostis amabilis (Linnaeus) Wight and Arnott, in Hooker and Arnott, Bot. Beechey Voy., 251, 1841.

Tau: on old coral rock about dwellings, Oct. 2, 1939, *Yuncker* 9169; Luma, near swampy area, Aug. 5, 1938, *W. Harris* 3; Luma, in sandy soil near the beach, July 20, 1938, *W. Harris* 339. Native name, fali funa.

² Lau (leaf) is now often used before the specific name of a plant.

Genus *Centotheca* Desvaux

Centotheca latifolia (Linnaeus) Trinius, Fund. Agrost., 141, 1820.

Tau: in marshy area south of Siufaga, alt. 3 m., Sept. 29, 1939, *Yuncker* 9100; along Luma-Faleasao trail, alt. 50 m., Sept. 30, 1939, *Yuncker* 9135; Sani Ridge, back of Fitiuta, alt. 125 m., Aug. 9, 1921, *Garber* 589; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris* 120; Faleulu Valley, open woods, alt. 204 m., July 27, 1938, *W. Harris* 213, 220.

Olosega: trail back of Olosegauta, alt. 300 m., June 17, 1925, *Garber* 1035. Native names, *sefa*, *vao fali*, *lau 'ofe'ofe*.

Genus *Lepturus* R. Brown

Lepturus repens (Forster) R. Brown, Prodr. Fl. Nov. Holl., 207, 1810.

Ofu: in soil pockets, basaltic rocks along northwestern shore, alt. 5 m., Nov. 28, 1939, *Yuncker* 9548.

Genus *Eleusine* Gaertner

Eleusine indica (Linnaeus) Gaertner, Fruct. et Semin. 1: 8, 1788.

Tau: in sandy soil near the beach, Sept. 29, 1939, *Yuncker* 9115; along Luma-Faleasao trail, alt. 50 m., Sept. 30, 1939, *Yuncker* 9136; sandy soil along trail behind Luma, Aug. 5, 1938, *W. Harris* 2; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1939, *W. Harris* 251; on calcareous beach, Papatea, July 15, 1938, *A. Harris* 72.

Ofu: in sandy soil near the beach, Nov. 25, 1939, *Yuncker* 9487; in sandy soil along southeastern shore trail, alt. 5 m., Nov. 26, 1939, *Yuncker* 9499. Native names, *sefa*, *ta'ata'a*.

Genus *Cynodon* L. Richard

Cynodon Dactylon (Linnaeus) Persoon, Syn. Pl. 1: 85, 1805.

Tau: under coconut trees in loose, medium-dry beach sand, Luma, July 20, 1938, *W. Harris* 336.

Genus *Digitaria* Heister

Digitaria chinensis Hornemann, Hort. Hafn., Suppl., 8, 1819.

Tau: along Luma-Faleasao trail, alt. 50 m., Sept. 30, 1939, *Yuncker* 9125; Luma, on lava cliff, alt. 45 m., July 24, 1938, *W. Harris* 30; in talus, foot of cliff, alt. 7-8 m., July 13, 1938, *W. Harris* 353; south side of South Cove, Papatea, on tuff at beach, July 15, 1938, *W. Harris* 317.

Ofu: in sandy soil near the beach, alt. 2 m., Nov. 25, 1939, *Yuncker* 9488.

Digitaria Henryi Rendle, Linn. Soc. Bot., Jour. 36: 323, 1904.

Tau: Papatea, in sand near the beach, July 15, 1938, *W. Harris* 71.

Ofu: along rocky shore, northwestern side of island, alt. 5 m., Nov. 28, 1939, *Yuncker* 9550.

Genus *Stenotaphrum* Trinius

Stenotaphrum subulatum Trinius, Acad. Pétersb., Mém. VI, 3(2) : 190, 1835.

Tau: in low marshy area south of Siufaga, Sept. 29, 1939, *Yuncker* 9109.

Genus *Paspalum* Linnaeus

Paspalum conjugatum Bergius, Helvet. Phys. Math., Act. 7 : 129, pl. 8, 1762.

Tau: weed in banana plantation on mountain slope south of Siufaga, alt. 300 m., Oct. 4, 1939, *Yuncker* 9233; Papatea, sandy soil near the beach, July 15, 1938, *W. Harris* 95; Luma, in talus, foot of cliff, alt. 7-8 m., July 13, 1938, *W. Harris* 354.

Ofu: in sandy soil near the beach, Nov. 25, 1939, *Yuncker* 9489. Native names, *vailima*, *vailima matafao*.

Paspalum vaginatum Swartz, Prodr. Veg. Ind. Occ., 21, 1788.

Tau: Luma, in sandy soil near the beach, July 20, 1938, *W. Harris* 305; Papatea, in sandy soil near the beach, July 15, 1938, *A. Harris* 73.

Genus *Panicum* Linnaeus

Panicum ambiguum Trinius, Acad. Pétersb., Mém. VI, 3(2) : 243, 1835.

Tau: in sandy soil near the beach south of Siufaga, Sept. 29, 1939, *Yuncker* 9114; sandy soil, Luma, July 20, 1938, *W. Harris* 334.

Ofu: in sandy soil near the beach back of Ofu village, Nov. 25, 1939, *Yuncker* 9486.

Panicum pilipes Nees and Arnott, Hook. Jour. Bot. Kew Miscel. 2 : 97, 1850.

Tau: Faleulu, weed in coconut plantation, alt. 180 m., July 27, 1938, *W. Harris* 166.

Ofu: plantation, Feaia Point, alt. 90 m., May 25, 1925, *Garber* 975.

Genus *Oplismenus* Beauvois

Oplismenus compositus (Linnaeus) Beauvois, Ess. Agrost., 54, 1812.

Tau: Luma, on lava cliff, alt. 45 m., July 24, 1938, *W. Harris* 31.

Oplismenus undulatifolius (Arduino) Roemer and Schultes var. *imbecillus* (R. Brown) Hackel, Govern. Labor. Manila, Pub. 35 : 81, 1906.

Ofu: in sandy soil along the southeastern shore trail, alt. 5 m., Nov. 26, 1939, *Yuncker* 9501A.

Genus *Pennisetum* L. Richard

Pennisetum macrostachyum (Brongniart) Trinius, Acad. Pétersb., Mém. VI, 3(2) : 177, 1835.

Tau: cultivated ornamental, Siufaga, Oct. 3, 1939, *Yuncker* 9214.

Genus *Cenchrus* Linnaeus

Cenchrus echinatus Linnaeus, Sp. Pl., 1050, 1753.

Tau: in sandy soil near the shore, Sept. 29, 1939, *Yuncker* 9110; on cal-

careous beach, Papatea, July 15, 1938, *A. Harris* 70; under coconut trees in loose, medium-dry beach sand, Luma, July 20, 1938, *W. Harris* 307, 335.

Ofu: in sandy soil near the beach back of Ofu village, Nov. 25, 1939, *Yuncker* 9485. Native names, *vao tuitui*, *vao papalagi*.

Genus *Thuarea* Persoon

Thuarea involuta (Forster) Roemer and Schultes, Syst. 2: 808, 1817.

Ofu: in sandy soil near the beach, Nov. 25, 1939, *Yuncker* 9491.

Genus *Miscanthus* Andersson

Miscanthus japonicus (Thunberg) Andersson, Oefvers. Vet. Akad. Förh. 12: 166, 1856.

Tau: along trail, Luma, January 11, 1922, *Garber* 705. Native names, *u*, *fiso*.

Genus *Saccharum* Linnaeus

Saccharum officinarum Linnaeus, Sp. Pl., 54, 1753.

Tau: small patch noted near Luma, but not collected (Yuncker). Native name, *tolo*.

Genus *Coix* Linnaeus

Coix lachryma-jobi Linnaeus, Sp. Pl., 972, 1753.

Tau: in marshy area near Luma, Oct. 6, 1939, *Yuncker* 9283. Native name, *sagisagi*.

FAMILY CYPERACEAE

Genus *Cyperus* Linnaeus

Cyperus brevifolius (Rottboell) Hasskarl, Cat. Hort. Bogor. Alt., 24, 1844.

Tau: weed in taro patch, Luma, Oct. 6, 1939, *Yuncker* 9276; in moist soil on plateau back of Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker* 9186; on lava cliff behind Luma, alt. 45 m., July 24, 1938, *W. Harris* 91. Native name, *tuse*.

Cyperus compressus Linnaeus, Sp. Pl., 46, 1753.

Tau: plateau back of Luma, alt. 100 m., Dec. 15, 1921, *Garber* 659; in sand along trail behind Luma, Aug. 5, 1938, *W. Harris* 4.

Ofu: in sandy soil near the beach, Nov. 28, 1939, *Yuncker* 9546.

Cyperus cyperoides (Linnaeus) O. Kuntze, Rev. Gen. 3(2): 333, 1898.

Tau: along the Luma-Faleasao trail, alt. 50 m., Sept. 20, 1939, *Yuncker* 9132; plateau back of Luma, alt. 125 m., Dec. 15, 1921, *Garber* 647. Native name, *ta'ata'a*.

Cyperus cyperoides (Linnaeus) O. Kuntze subsp. *cyperinus* (Retzius) Kükenthal, Engl. Bot. Jahrb. 59: 46, 1924.

Tau: plateau back of Luma, alt. 125 m., Dec. 15, 1921, *Garber* 649; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938,

W. Harris 121; on lava cliffs behind Luma, alt. 45 m., July 24, 1938, *W. Harris* 32.

Cyperus javanicus Houttuyn, Nat. Hist. II, 13: Aawyz. Plaat. [1], pl. 88, fig. 1, 1782.

Tau: in low marshy area, Oct. 6, 1939, *Yuncker* 9285.

Ofu: on talus slope along the northwest shore, Nov. 28, 1939, *Yuncker* 9549; in low ground near the beach, Nov. 25, 1939, *Yuncker* 9484. Native name, *selesele*.

Cyperus Kyllingia Endlicher, Cat. Hort. Acad. Vindob. 1: 94, 1842.

Tau: south side of South Cove, Papatea, on tuff rock at lower edge of strand forest near the shore, July 15, 1938, *W. Harris* 318.

Cyperus Seemannianus Boeckeler var. *altus* Kükenthal, B. P. Bishop Mus., Bull. 128: 18, 1935.

Tau: Faleulu Valley, rocky soil on hillside, alt. 195 m., July 27, 1938, *W. Harris* 199.

Cyperus Seemannianus Boeckeler var. *monostachys* (Boeckeler) Kükenthal, B. P. Bishop Mus., Bull. 128: 18, 1935.

Tau: Sani Ridge back of Fitiuta, alt. 125 m., Sept. 8, 1921, *Garber* 590; plateau back of Luma, alt. 150 m., Dec. 15, 1921, *Garber* 657.

Cyperus Seemannianus Boeckeler aff. var. *perdensus* Kükenthal, B. P. Bishop Mus., Bull. 128: 18, fig. 2, 1935.

Tau: south side of South Cove, Papatea, on tuff at lower edge of strand forest, July 15, 1938, *W. Harris* 319.

Genus *Eleocharis* R. Brown

Eleocharis dulcis (Burman f.) Trinius, ex Henschel, Vita Rumph., 186, 1833.

Tau: in low marshy area near Siufaga, Oct. 7, 1939, *Yuncker* 9296. Native name, *utuutu*.

Genus *Fimbristylis* Vahl

Fimbristylis annua (Allioni) Roemer and Schultes, Syst. 2: 95, 1817.

Tau: in low, marshy area south of Siufaga, Sept. 29, 1939, *Yuncker* 9103; in swamp near Siufaga, Oct. 7, 1939, *Yuncker* 9295.

Fimbristylis cymosa R. Brown var. *pycnocephala* (Hillebrand) Kükenthal, B. P. Bishop Mus., Bull. 128: 20, 1935.

Tau: lava rock along the sea, Fitiuta, Aug. 10, 1921, *Garber* 608.

Ofu: on spray-swept rocks near the sea, Nov. 28, 1939, *Yuncker* 9557. Native name, *mutia*.

Fimbristylis diphylla (Retzius) Vahl, Enum. 2: 289, 1806.

Tau: plateau back of Luma, alt. 125 m., Dec. 15, 1921, *Garber* 648.

Genus *Rynchospora* Vahl

Rynchospora corymbosa (Linnaeus) Britton, New York Acad. Sci., Trans. 11: 84, 1892.

Tau: in low marshy area, Oct. 6, 1939, *Yuncker* 9286; in low marshy area south of Siufaga, Sept. 29, 1939, *Yuncker* 9102.

Olosega: taro swamp, back of Olosega village, June 23, 1925, *Garber* 1090. Native names, *lau selesele*, *vao selesele*.

Genus *Mapania* Aublet

Mapania longifolia (Boeckeler) C. B. Clarke, Kew Bull., add. ser. 8: 54, 1908.

Tau: below peak back of Tau, alt. 600 m., Jan. 28, 1922, *Garber* 739. Native name, *lau fala vao*.

Mapania macrocephala (Gaudichaud) K. Schumann, Engl. Bot. Jahrb. 13: 265, 1891.

Tau: in moist ravine south of Siufaga, alt. 100 m., Sept. 27, 1939, *Yuncker* 9084.

Genus *Scleria* Bergius

Scleria lithosperma (Linnaeus) Swartz, Prodr. Veg. Ind. Occ., 18, 1788.

Tau: in moist shady ravine on slope about two miles south of Siufaga, alt. 150 m., Sept. 27, 1939, *Yuncker* 9080; Luma-Faleasao trail, alt. 40 m., Jan. 8, 1922, *Garber* 690; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris* 214.

Ofu: along the ridge trail back of Ofu village, alt. 150 m., Nov. 25, 1939, *Yuncker* 9470. Native name, *popo vao*.

Scleria scrobiculata Nees, Wight, Contrib., 117, 1834.

Tau: in low marshy area south of Siufaga, Sept. 29, 1939, *Yuncker* 9106; along the trail near the shore south of Siufaga, Sept. 25, 1939, *Yuncker* 9004; plateau back of Luma, alt. 100 m., Dec. 15, 1921, *Garber* 644.

Ofu: on rocky slope behind Ofu village, alt. 180 m., Nov. 25, 1939, *Yuncker* 9465. Native name, *tafa tolu*.

FAMILY PALMAE

Genus *Eupritchardia* O. Kuntze

Eupritchardia pacifica (Seemann and Wendland) O. Kuntze, Rev. Gen. 3(2): 323, 1898.

Ofu: cultivated, Aloafao, alt. 8 m., June 6, 1925, *Garber* 1012. Native name, *niu piu*.

Genus *Cocos* Linnaeus

Cocos nucifera Linnaeus, Sp. Pl., 1188, 1753.

Tau: cultivated, Luma, Jan. 10, 1922, *Garber* 703. Extensively cultivated in several varieties on all islands (Yuncker). Native name, *niu*.

FAMILY ARACEAE

Genus *Epipremnum* Schott

?*Epipremnum pinnatum* (Linnaeus) Engler, Pflanzenr. 37(IV.23 Ba): 60, fig. 25, 1908.

Tau: climbing in trees in thicket near the shore south of Siufaga (specimen sterile), Oct. 7, 1939, *Yuncker* 9288; on the ground and scrambling over rocks, Fagamalo beach, Jan. 7, 1922, *Garber* 677. Native name, *lau manamana*.

Genus *Amorphophallus* Blume

Amorphophallus campanulatus (Roxburgh) Blume, Mus. Hist. Nat. Paris, Ann. 3: 366, 1834.

Tau: in bush near Siufaga, alt. 3 m., Sept. 21, 1922, *Garber* 774. Native name, *teve*.

Genus *Colocasia* Schott

Colocasia esculenta (Linnaeus) Schott, Melet. Bot. 1: 18, 1832.

Ofu: cultivated, Ofu village, alt. 8 m., June 22, 1925, *Garber* 1100; cultivated on all the islands in a number of varieties (*Yuncker*). Native name, *talo*.

FAMILY BROMELIACEAE

Genus *Ananas* Adanson

Ananas comosus (Linnaeus) Merrill, Interpret. Herb. Amboin., 133, 1917.

Large plantations on Tau, *Guest*. Native name, *fala 'aina*.

FAMILY COMMELINACEAE

Genus *Commelina* Plumier

Commelina diffusa Burman f., Fl. Ind., 18, pl. 7, fig. 2, 1768.

Tau: in moist soil, along trail on west slope of Mt. Vaoaimanu, alt. 300 m., Oct. 5, 1939, *Yuncker* 9273.

Olosega: wet talo plantation, June 23, 1925, *Garber* 1088. Native name, *ma'u'u toga*.

Genus *Aneilema* R. Brown

Aneilema vitiense Seemann, Fl. Vit., 314, pl. 96, 1868.

Tau: along the trail in moist soil, west slope of Mt. Vaoaimanu, Oct. 5, 1939, *Yuncker* 9274; on old lava wall, south of Siufaga, alt. 300 m., Oct. 4, 1939, *Yuncker* 9230; Sani Ridge back of Fitiuta, alt. 100 m., Aug. 9, 1921, *Garber* 588. Native name, *ma'u'u toga*.

FAMILY LILIACEAE

Genus *Cordyline* Commerson

Cordyline terminalis (Linnaeus) Kunth, Berl. Akad., Abh. 30, 1820.

Tau: in thicket along the trail near Fitiuta, alt. 50 m., Sept. 26, 1939, *Yuncker* 9047; along the Luma-Faleasao trail, alt. 50 m., Sept. 30, 1939,

Yuncker 9128; Fitiuta trail, alt. 80 m., Aug. 4, 1921, *Garber 554*; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris 136*. Native name, *ti*.

Genus *Asparagus* Linnaeus

Asparagus plumosus Baker, Linn. Soc. Bot., Jour. 14: 613, 1875.

Tau: cultivated ornamental, Siufaga, Oct. 3, 1939, *Yuncker 9221*. Native name, *lau lili'i*.

FAMILY AMARYLLIDACEAE

Genus *Zephyranthes* Herbert

Zephyranthes rosea (Sprengel) Lindley, Bot. Reg. 10: 821, 1824.

Tau: cultivated ornamental, Siufaga, Oct. 3, 1939, *Yuncker 9220*. Also observed occasionally as an escape.

Genus *Crinum* Linnaeus

Crinum asiaticum Linnaeus, Sp. Pl., 292, 1753.

Tau: cultivated ornamental, Siufaga, Oct. 3, 1939, *Yuncker 9219*. Native name, *lau talotalo*.

FAMILY TACCACEAE

Genus *Tacca* Forster

Tacca pinnatifida Forster, Charact. Gen., Pl. 70, pl. 35, 1776.

Tau: in sandy soil near the shore, Sept. 25, 1939, *Yuncker 9027*; plateau back of Luma, alt. 125 m., Dec. 15, 1921, *Garber 653*,

Ofu: in sandy soil near the shore, along southeastern trail, Nov. 26, 1939, *Yuncker 9505*. Native name, *masoa, pia*.

FAMILY DIOSCOREACEAE

Genus *Dioscorea* Plumier

Dioscorea bulbifera Linnaeus, Sp. Pl., 1033, 1753.

Tau: climbing in thicket on plateau back of Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9181*.

Ofu: climbing in thicket on main ridge, alt. 300 m., Nov. 27, 1939, *Yuncker 9526*. Native name, *soi*.

Dioscorea pentaphylla Linnaeus, Sp. Pl. 1032, 1753.

Tau: climbing in thicket two miles south of Siufaga, alt. 150 m., Oct. 1, 1939, *Yuncker 9155*. Native name, *pilita*.

FAMILY MUSACEAE

Genus *Musa* Linnaeus

Musa paradisiaca Linnaeus, Sp. Pl., 1043, 1753.

The banana is extensively cultivated on all of the islands in a number of varieties as an important item of food. Native name, *fa'i*.

FAMILY ZINGIBERACEAE

Genus *Alpinia* Roxburgh

Alpinia purpurata (Vieillard) K. Schumann, Pflanzenr. 20(IV.46): 323, 1904.

Tau: on plateau near Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9177*.

Ofu: weed in coconut plantation near Ofu village, alt. 100 m., Nov. 25, 1939, *Yuncker 9460*. Native name, *teuila*.

Genus *Curcuma* Linnaeus

?*Curcuma longa* Linnaeus, Sp. Pl., 2, 1753.

Tau: near dwelling, Siufaga, Oct. 3, 1939, *Yuncker 9218*.

Ofu: Aloafao, alt. 8 m., June 6, 1921, *Garber 1009*. Native name, *ago*.

Genus *Zingiber* Adanson

Zingiber Zerumbet (Linnaeus) Smith, Exot. Bot. 2: 103, pl. 112, 1804.

Tau: Luma-Faleasao trail, alt. 40 m., Jan. 8, 1922, *Garber 689*.

Ofu: along ridge trail above Ofu village, alt. 300 m., Nov. 27, 1939, *Yuncker 9544*. Native name, *avapai*.

FAMILY CANNACEAE

Genus *Canna* Linnaeus

Canna humilis Bouché, Linnaea 8: 153, 1833.

Tau: plateau back of Siufaga, alt. 100 m., Sept. 27, 1922, *Garber 781*; margin of wet taro patch near Siufaga, Oct. 6, 1939, *Yuncker 9282*. Native name, *fagamanu*.

FAMILY ORCHIDACEAE

Genus *Habenaria* Willdenow

Habenaria tradescantifolia Reichenbach f., in Seemann, Fl. Vit., 293, 1868.

Tau: terrestrial, in dense wet forest on slope two miles south of Siufaga, alt. 300 m., Oct. 1, 1939, *Yuncker 9150*; in deep, shady ravine about one mile south of Siufaga, alt. 50 m., Sept. 27, 1939, *Yuncker 9000A*.

Genus *Platylepis* Blume

Platylepis heteromorpha Reichenbach f., Otia Bot. Hamb. 1: 52, 1878.

Olosega: terrestrial herb, Olosegauta-Piumafua ridge, alt. 550 m., June 17, 1925, *Garber 1073*.

Genus *Erythroides* Blume

Erythroides species.

Tau: terrestrial herb, in dense rain forest on west slope of Mt. Vaoaimanu, alt. 500 m., Oct. 5, 1939, *Yuncker 9269*.

Genus *Cheirostylis* Blume

Cheirostylis species.

Tau: terrestrial herb, in dense rain forest on western slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker* 9265.

Genus *Vrydagzynea* Blume

Vrydagzynea species.

Tau: herb, on mossy rock, Amouli trail, alt. 175 m., Sept. 16, 1921, *Garber* 630.

Genus *Malaxis* Solander

Malaxis resupinata (Forster) O. Kuntze, Rev. Gen., 673, 1891.

Ofu: in rich soil, forest floor on ridge back of Ofu village, alt. 400 m., Nov. 27, 1939, *Yuncker* 9522.

Genus *Microstylis* Nuttall

Microstylis species.

Tau: epiphyte, top of peak back of Tau, alt. 700 m., Jan. 28, 1922, *Garber* 753.

Genus *Liparis* L. C. Richard

Liparis species.

Tau: terrestrial herb, in dense rain forest on west slope of Mt. Vaoaimanu, alt. 500 m., Oct. 5, 1939, *Yuncker* 9266.

Genus *Agrostophyllum* Blume

Agrostophyllum megalurum Reichenbach f., in Seemann, Fl. Vit., 296, 1868.

Tau: epiphyte, in dense rain forest on west slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker* 9246.

Genus *Appendicula* Blume

Appendicula bracteosa Reichenbach f., in Seemann, Fl. Vit., 299, 1868.

Tau: epiphyte, in dense rain forest on west slope of Mt. Vaoaimanu, alt. 500 m., Oct. 5, 1939, *Yuncker* 9267; epiphyte, on damp tree trunk, below peak back of Tau, alt. 600 m., Jan. 28, 1922, *Garber* 730; epiphyte on trunk of tree fern in gulch, trail to peak back of Luma, alt. 300 m., Jan. 28, 1922, *Garber* 714.

Genus *Glomera* Blume

Glomera Reineckeana (Kraenzlin) Schlechter, in Fedde, Repert. Nov. Spec. 9: 96, 1910.

Tau: epiphyte, top of peak back of Tau, on fallen tree trunk, alt. 650 m., Jan. 28, 1922, *Garber* 748.

Genus *Phaius* Loureiro

Phaius Tankervilleae (Banks) Blume, Mus. Bot. Lugd.-Bat. 2: 177, 1856.

Tau: terrestrial, in dense rain forest on western slope of Mt. Vaoaimanu, alt. 300 m., Oct. 5, 1939, *Yuncker* 9261.

Genus *Calanthe* R. Brown

Calanthe furcata Bateman, Bot. Reg. 24: Misc. 28, 1838.

Tau: terrestrial, in dense, wet forest on slope two miles south of Siufaga, alt. 300 m., Oct. 30, 1939, *Yuncker 9149*.

Calanthe triplicata (Willemet f.) Ames, Philip. Jour. Sci., Bot. 2: 326, 1907.

Olosega: Olosegauta-Piumafua ridge, alt. 500 m., June 17, 1925, *Garber 1036, 1077*.

***Calanthe* species.**

Tau: terrestrial, in dense rain forest on west slope of Mt. Vaoaimanu, alt. 600 m., Oct. 5, 1939, *Yuncker 9248*.

Genus *Spathoglottis* Blume

Spathoglottis plicata Blume, Bijdr. Fl. Jav., 401, fig. 76, 1825.

Tau: terrestrial, in thicket one mile south of Siufaga, alt. 5 m., Sept. 25, 1939, *Yuncker 9007A*; in open grassy area south of Siufaga, alt. 50 m., Sept. 25, 1939, *Yuncker 9007*; bush trail back of Luma, alt. 200 m., Jan. 28, 1922, *Garber 710, 712*.

Ofu: in open grassy area on ridge back of Ofu village, alt. 400 m., Nov. 27, 1939, *Yuncker 9527*.

Olosega: Olosegauta-Piumafua ridge, alt. 500-600 m., June 17, 1925, *Garber 1054*. Native name, *niu vao*.

Genus *Dendrobium* Swartz

Dendrobium biflorum (Forster) Swartz, Nova Acta Soc. Sci. Upsal. II, 6: 84, 1799.

Tau: on fallen tree trunk, plateau back of Faleasao, alt. 150 m., Aug. 4, 1921, *Garber 575*.

Dendrobium tipuliferum Reichenbach f., Gard. Chron. 1: 72, 1877.

Tau: epiphyte, in dense rain forest on western slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker 9264*.

Dendrobium Tokai Reichenbach f., Hamb. Gardenz. 21: 293, 1865.

Tau: epiphytic, dark damp ravine two miles south of Siufaga, alt. 150 m., Sept. 27, 1939, *Yuncker 9066*; on dead tree, Amouli trail, alt. 150 m., Sept. 16, 1921, *Garber 619*. Native name, *laumafafia*.

Dendrobium Vaupelianum Kraenzlin, Notizbl. Bot. Gart. Berlin 5: 109, 1909.

Tau: epiphyte, in dense forest on slope about two miles south of Siufaga, alt. 150 m., Oct. 1, 1939, *Yuncker 9067, 9160*; on branch of tree in dark damp ravine on slope between one and two miles south of Siufaga, alt. 150 m., Sept. 27, 1939, *Yuncker 9067*; on breadfruit tree, Fitiuta trail, Aug. 4, 1921, *Garber 557*; on breadfruit tree, plateau back of Luma, alt. 150 m., Dec. 15, 1921, *Garber 655*. Native name, *laumafafia*.

Genus *Pseuderia* Schlechter

Pseuderia ramosa L. Williams, Harvard Univ., Bot. Mus. Leaflet 7: 140, 1939.

Tau: epiphyte, in dense rain forest on west slope of Mt. Vaoaimanu, alt. 300 m., Oct. 5, 1939, *Yuncker* 9251.

Pseuderia species.

Tau: epiphyte, trail to peak back of Tau, alt. 400 m., Jan. 28, 1922, *Garber* 717.

Genus *Bulbophyllum* Thouars

Bulbophyllum Christophersenii L. Williams, Harvard Univ., Bot. Mus. Leaflet 7: 143, 1939.

Tau: epiphyte, in deep wet forest on slope two miles south of Siufaga, alt. 300 m., Oct. 1, 1939, *Yuncker* 9153; epiphyte, in damp forest on west slope of Mt. Vaoaimanu, alt. 360 m., Oct. 5, 1939, *Yuncker* 9249.

Bulbophyllum longiscapum Rolfe, Kew Bull., 45, 1896.

Tau: epiphyte, in dark damp ravine two miles south of Siufaga, alt. 150 m., Sept. 27, 1939, *Yuncker* 9076.

Bulbophyllum species.

Tau: epiphyte, in dense moist forest on west slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker* 9272.

Bulbophyllum species.

Tau: epiphyte, in dense rain forest on west slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker* 9250.

Genus *Phreatia* Lindley

Phreatia Reineckeii Schlechter, in Fedde, Repert. Nov. Spec. 9: 109, 1911.

Tau: epiphyte, on dead limb of tree, Amouli trail, alt. 175 m., Sept. 16, 1921, *Garber* 629.

Phreatia samoensis (Kraenzlin) Schlechter, in Fedde, Repert. Nov. Spec. 3: 320, 1907.

Tau: epiphyte, on tree trunk, slope of peak back of Tau, alt. 650 m., Jan. 28, 1922, *Garber* 745.

Phreatia upoluensis Schlechter, in Fedde, Repert. Nov. Spec. 3: 319, 1907.

Tau: epiphyte, in open forest along the trail one mile south of Siufaga, alt. 10 m., Sept. 25, 1939, *Yuncker* 9000.

Genus *Thrixspermum* Loureiro

Thrixspermum species.

Tau: epiphyte, in dense moist forest on west slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker* 9271.

Genus *Taeniophyllum* Blume*Taeniophyllum* species.

Tau: epiphyte, near South Point, Fitiuta trail, alt. 150 m., Oct. 12, 1921, *Garber* 641.

DICOTYLEDONEAE

FAMILY CASUARINACEAE

Genus *Casuarina* Linnaeus

Casuarina equisetifolia Linnaeus, *Amoen. Acad.* 4: 143, 1759.

A few trees on Tau and Ofu, Guest. Native name, *toa*.

FAMILY PIPERACEAE

Genus *Piper* Linnaeus

Piper Graeffei Warburg, *Engl. Bot. Jahrb.* 25: 610, 1898.

Tau: climbing on trees along Fitiuta trail, Sept. 26, 1939, *Yuncker* 9040, 9042, 9048.

Ofu: clinging to tree along southeastern shore trail, Nov. 26, 1939, *Yuncker* 9510. Native name, *fue manogi*.

Piper Graeffei Warburg var. *cordatum* Warburg, *Engl. Bot. Jahrb.* 25: 610, 1898.

Tau: clinging on tree in rocky ravine on slope south of Siufaga, alt. 100 m., Sept. 25, 1939, *Yuncker* 9013; clinging on trees along bush trail back of Luma village, alt. 225 m., Jan. 28, 1922, *Garber* 711 (?). Native name, *'ava'ava aitu*.

Piper Graeffei Warburg var. (?).

Ofu: clinging on trees, leaves broadly ovate, glabrous, 7-9-nerved, slope back of Ofu village, alt. 180 m., Nov. 25, 1939, *Yuncker* 9447.

Piper Macgillivrayi C. DeCandolle var. (?) *subrotundifolium* C. DeCandolle, *Akad. Wiss. Wien, Denkschr.* 85: 264, 1910.

Tau: clinging on tree south of Siufaga, Sept. 29, 1939, *Yuncker* 9118; along Amouli trail, Sept. 16, 1921, *Garber* 638. Native names, *'avasa*, *'ava'ava aitu*.

Piper methysticum Forster f., *De Plant Esculent.*, 76, 1786.

Tau: near dwelling, Siufaga, Oct. 3, 1939, *Yuncker* 9205; plateau back of Luma village, alt. 150 m., Dec. 15, 1921, *Garber* 654.

Ofu: edge of plantation on ridge behind Ofu village, alt. 20 m., Nov. 27, 1939, *Yuncker* 9538. Native names, *'ava*, *'ava inu*.

Genus *Peperomia* Ruiz and Pavon

Peperomia tutuilana Yuncker, B. P. Bishop Mus., Bull. 143: 33, fig. 18, 1937.

Tau: on rocks along the Fitiuta trail, Sept. 26, 1939, *Yuncker 9031*. Native name, *la'au sosolo i le ma'a*.

FAMILY ULMACEAE

Genus *Trema* Loureiro

Trema orientalis (Linnaeus) Blume var. *viridis* Lauterbach, Engl. Bot. Jahrb. 50: 321, fig. 2-D, 1913.

Tau: along Fitiuta trail, Sept. 26, 1939, *Yuncker 9046*; Fitiuta trail back of Luma, alt. 100 m., Dec. 16, 1921, *Garber 670*.

Ofu: in forest on main ridge, alt. 100 m., Nov. 25, 1939, *Yuncker 9461*. Abundant on all islands, Guest. Native name, *magele*.

FAMILY MORACEAE

Genus *Broussonetia* L'Heritier

Broussonetia papyrifera (Linnaeus) Ventenat, Tabl. Regn. Veg. 3: 547, 1794.

Tau: cultivated, Siufaga, Oct. 3, 1939, *Yuncker 9204*.

Olosega: plantation back of Olosegauta, alt. 350 m., *Garber 1071*. Cultivated on all the islands, Guest. Native names, *u'a*, *siapo*.

Genus *Artocarpus* Forster

Artocarpus altilis (Parkinson) Fosberg, Washington Acad. Sci., Jour. 31: 95, 1941.

Ofu: cultivated, June 1925, *Garber 1003, 1004, 1005, 1006, 1007, 1016, 1017, 1018*. The breadfruit is cultivated in all of the villages. The natives recognize a number of varieties on the basis of the shape and size of the leaves or shape and quality of the fruit. Native name, *'ulu*.

Genus *Ficus* Linnaeus

Ficus ciliata Warburg, in Engl. Bot. Jahrb. 25: 615, 1898.

Tau: in thicket near the beach south of Siufaga, Oct. 4, 1939, *Yuncker 9242*; along trail near Fitiuta, Sept. 26, 1939, *Yuncker 9033*; in thicket on slope two miles south of Siufaga, Oct. 1, 1939, *Yuncker 9145*.

Ficus Godeffroyi Warburg, in Engl. Bot. Jahrb. 25: 613, 1898.

Olosega: Olosegauta-Piunafua ridge, alt. 500-600 m., June 17, 1925, *Garber 1055, 1058, 1064*. Moderate on Tau, Ofu, and Olosega, Guest. Native name, *aoa*.

Ficus obliqua Forster f., Fl. Ins. Austr. Prodr., 77, 1786.

Ofu: in forest on ridge behind Ofu village, alt. 360 m., Nov. 27, 1939, *Yuncker 9543*; Nu'u Islet, June 4, 1925, *Garber 992*.

Ficus prolixa Forster f., Fl. Ins. Austr. Prodr., 77, 1786.

Tau: in thicket on plateau above Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9180*. Moderate on Tau, Ofu and Olosega, Guest.

?**Ficus scabra** Forster f., Fl. Ins. Austr. Prodr., 76, 1786.

Ofu: in thicket on slope behind Ofu village, Nov. 25, 1939, *Yuncker 9473*. Native name, *mati*.

Ficus tinctoria Forster f., Fl. Ins. Austr. Prodr., 76, 1786.

Tau: in open forest along trail near Fitiuta, Sept. 29, 1939, *Yuncker 9052*; trail back of Luma, alt. 30 m., Aug. 21, 1921, *Garber 544*.

Ofu: Alaufau [Aloafao], June 5, 1925, *Garber 996*. Abundant on all the islands, Guest. Native name, *mati*.

FAMILY URTICACEAE

Genus **Fleurya** Gaudichaud

Fleurya interrupta (Linnaeus) Gaudichaud, Bot. Freyc. Voy., 497, 1826.

Tau: plateau back of Faleasao, alt. 150 m., Aug. 4, 1921, *Garber 576*; south side of South Cove, Papatea, on tuff near the beach, July 15, 1938, *W. Harris 320*; Papatea, in sand near the beach, July 15, 1938, *W. Harris 261*.

Ofu: at plantation house, Tua, June 5, 1925, *Garber 1001*; Aloafao, June 6, 1925, *Garber 1013*. Native names, *ogoogo*, *vao mageso*.

Genus **Elatostema** Forster

Elatostema basiandrum Reinecke, in Engl. Bot. Jahrb. 25: 622, 1898.

Tau: in stream bed, gulch on side of Palapala Hill, damp forest, alt. 300 m., July 10, 1938, *W. Harris 190*.

Elatostema strictum Reinecke, in Engl. Bot. Jahrb. 25: 625, 1898.

Tau: on rocks in moist ravine, alt. 200 m., Sept. 27, 1939, *Yuncker 9081*.

Genus **Procris** Commerson

Procris pedunculata (Forster) Weddell, DC Prodr. 16(1): 191, 1869.

Tau: in moist thicket along Fitiuta trail, Sept. 26, 1939, *Yuncker 9051*; Fitiuta trail, Aug. 10, 1921, *Garber 607*; on lava cliff behind Luma, alt. 45 m., July 24, 1938, *W. Harris 389*; south side of South Cove, Papatea, on tuff at beach, July 15, 1938, *W. Harris 320*; in sand near the beach, Papatea, July 15, 1938, *W. Harris 261*. Native names, *fua lole*, *lole vao*, *fua feti'i'i*.

Genus **Pipturus** Weddell

Pipturus aff. argenteus (Forster) Weddell, DC Prodr. 16(1): 235, 19, 1869.

Tau: in thicket on plateau back of Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9185*; beach at Fitiuta, Aug. 8, 1921, *Garber 585*; Faleasao, Jan. 8, 1922, *Garber 696*.

Ofu: in thicket along northwest shore, Nov. 28, 1939, *Yuncker 9547*; in thicket on ridge back of Ofu village, alt. 120 m., Nov. 25, 1939, *Yuncker 9472*;

in sandy soil along the northwest shore, alt. 5 m., Nov. 28, 1939, *Yuncker* 9564, 9567; Nuu Islet, July 4, 1925, *Garber* 1110. Abundant on all the islands, Guest. Native name, *soga*.

Genus *Maoutia* Weddell

Maoutia australis Weddell, Nouv. Arch. Mus. Hist. Nat. Paris 9: 480, 1856.

Ofu: in thicket on ridge above Ofu village, alt. 360 m., Nov. 27, 1939, *Yuncker* 9530. Native name, *ole tau'uta*.

FAMILY AMARANTHACEAE

Genus *Amaranthus* Linnaeus

Amaranthus viridis Linnaeus, Sp. Pl. ed. 2, 1405, 1763.

Tau: weed in taro patch near Siufaga, Oct. 3, 1939, *Yuncker* 9197; along trail behind Luma, Aug. 5, 1938, *W. Harris* 9; in sand near the beach, Papatea, July 15, 1938, *W. Harris* 262.

Olosega: Olosega-Olosegauta trail, June 17, 1925, *Garber* 1069. Native name, *autasi*.

Genus *Cyathula* Loureiro

Cyathula prostrata (Linnaeus) Blume, Bijdr. Fl. Jav., 549, 1825.

Tau: weed, common in sandy soil, Siufaga, Oct. 2, 1939, *Yuncker* 9170; Sani Ridge back of Fitiuta, alt. 150 m., Aug. 9, 1921, *Garber* 592; Fitiuta trail, alt. 100 m., Dec. 16, 1921, *Garber* 669; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris* 215. Native names, *manutoga*, *lau talatala*.

Genus *Achyranthes* Linnaeus

Achyranthes aspera Linnaeus, Sp. Pl., 204, 1753.

Tau: Fitiuta trail, alt. 125 m., Aug. 4, 1921, *Garber* 563, 568; south side of South Cove, Papatea, on tuff near beach, July 15, 1938, *W. Harris* 322. Native names, *lau tamatama*, *la'au talatala*.

Genus *Alternanthera* Forskål

Alternanthera sessilis (Linnaeus) R. Brown, ex Roemer and Schultes, Syst. 5: 554, 1819.

Tau: weed in sandy soil, Siufaga, Oct. 2, 1939, *Yuncker* 9172; in shallow water of taro patch near Siufaga, Oct. 6, 1939, *Yuncker* 9275; south side of South Cove, Papatea, on tuff at beach, July 15, 1938, *W. Harris* 321; along trail behind Luma, Aug. 5, 1938, *W. Harris* 8; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1939, *W. Harris* 236.

Ofu: Aloafao, June 6, 1925, *Garber* 1010. Native name, *vao sosolo*.

Genus *Gomphrena* Linnaeus

Gomphrena globosa Linnaeus, Sp. Pl., 224, 1753.

Tau: dooryard ornamental, Siufaga, Oct. 3, 1939, *Yuncker* 9206. Native name, *malila*.

FAMILY NYCTAGINACEAE

Genus *Boerhaavia* Linnaeus

Boerhaavia diffusa Linnaeus, Sp. Pl., 3, 1753.

Tau: in sandy soil, Siufaga, Oct. 6, 1939, *Yuncker* 9281; roadside, Fitiuta, Aug. 8, 1921, *Garber* 586; in sand along trail behind Luma, Aug. 1938, *W. Harris* 10; in sand near the beach, Papatea, July 15, 1938, *W. Harris* 76, 96.

Ofu: on old lava along northwestern shore, Nov. 28, 1939, *Yuncker* 9551.

Genus *Pisonia* Linnaeus

Pisonia grandis R. Brown, Prodr. Fl. Nov. Holl. 1: 422, 1810.

Ofu: on rocky talus slope at base of cliff along northwestern shore, Nov. 28, 1939, *Yuncker* 9556. Abundant on all the islands, Guest. Native name, *pu'a vai*.

Pisonia umbellifera (Forster) Seemann, Bonplandia 10: 154, 1862.

Tau: in moist ravine south of Siufaga, alt. 100 m., Sept. 25, 1939, *Yuncker* 9002; between one and two miles south of Siufaga, in dark ravine, alt. 100 m., Sept. 27, 1939, *Yuncker* 9064; plateau back of Faleasao, alt. 150 m., Aug. 4, 1921, *Garber* 574; Faleasao-Fitiuta trail, April 19, 1922, *Garber* 761.

FAMILY AIZOACEAE

Genus *Sesuvium* Linnaeus

Sesuvium Portulacastrum Linnaeus, Syst., 10th ed., 1058, 1759.

Ofu: on spray-swept lava rocks along the northwestern shore, Nov. 28, 1939, *Yuncker* 9558; rock crevices on spray-swept cliff, Ofu-Samoi trail, June 7, 1925, *Garber* 1024.

FAMILY PORTULACACEAE

Genus *Portulaca* Linnaeus

Portulaca lutea Solander, Forster f., De Pl. Esc., 72, 1786.

Ofu: on old lava along the shore, Nov. 28, 1939, *Yuncker* 9559 (this specimen is sterile but agrees well with this species in its vegetative characters); rocky cliff, Feaia Point, June 7, 1925, *Garber* 1023. Native name, *tamole*.

Portulaca oleracea Linnaeus, Sp. Pl., 445, 1753.

Tau: weed in taro patch, near Luma, Oct. 6, 1939, *Yuncker* 9279; Papatea, in sand near the beach, July 15, 1938, *W. Harris* 79, 99. Native name, *tamole*.

Portulaca samoensis von Poellnitz, in Fedde, Repert. Nov. Spec. 33: 163, 1933.

Tau: on lava rocks near the shore along the Luma-Faleasao trail, Sept. 20, 1939, *Yuncker* 9122; Faasamene Spring near Faleasao, Jan. 8, 1922, *Garber* 697; Papatea, in sandy soil near the beach, July 15, 1938, *W. Harris* 77, 78, 80, 97, 98.

Ofu: in sandy soil near the beach along the southeastern shore, Nov. 26, 1939, *Yuncker 9518*; along the Ofu-Samoi trail on exposed wind-swept rocky cliffs, June 7, 1925, *Garber 1025*. Native name, *tamole*.

FAMILY ANNONACEAE

Genus *Cananga* Hooker f. and Thomson

Cananga odorata (Lamarck) Hooker f. and Thomson, Fl. Ind. 1: 130, 1855.

Tau: in thicket on plateau above Luma, alt. 45 m., Oct. 2, 1939, *Yuncker 9178*; on plateau back of Luma, alt. 125 m., *Garber 650*. Abundant on all the islands, Guest. Native name, *moso'oi*.

FAMILY MYRISTICACEAE

Genus *Myristica* Linnaeus

Myristica inutilis Rich, ex A. Gray, U. S. Expl. Exped., Bot. 15(1): 33, 1854.

Tau: in thicket on plateau behind Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9182*; in forest on slope two miles south of Siufaga, alt. 150 m., Oct. 1, 1939, *Yuncker 9161*; Fitiuta trail back of Faleasao, Aug. 11, 1921, *Garber 609*.

Ofu: in forest on main ridge, Nov. 27, 1939, *Yuncker 9541*. Abundant on all the islands, Guest. Native name, *atone*.

FAMILY MONIMIACEAE

Genus *Hedycarya* Forster

Hedycarya denticulata (A. Gray) Perkins and Gilg, Pflanzenr. 49(IV.101): 19, 1901.

Ofu: on central ridge, alt. 250 m., Nov. 27, 1939, *Yuncker 9523*. Native name, *la'au fai vaitusi*.

FAMILY LAURACEAE

Genus *Cinnamomum* Linnaeus

Cinnamomum pallidum Gillespie, B. P. Bishop Mus., Bull. 91: 6, fig. 5, 1932.

Tau: a few trees at Fitiuta, Guest. Native name, *tigamoni*.

Genus *Litsea* Lamarck

?*Litsea magnifolia* Gillespie var. *samoensis* Christophersen, B. P. Bishop Mus., Bull. 128: 89, fig. 10, 1935.

Tau: abundant at Fitiuta, Guest. Native name, *papaono*.

FAMILY HERNANDIACEAE

Genus *Gyrocarpus* Jacquin

Gyrocarpus americanus Jacquin, Stirp. Am., 282, pl. 178, 1763.

Ofu: Nuu Islet, July 4, 1925, *Garber 1108*.

Genus *Hernandia* Plumier

Hernandia Moerenhoutiana Guillemain, Sci. Nat., Ann. II, 7: 189, 1837.

Tau: abundant, Guest. Native name, *pipi*.

Hernandia ovigera Linnaeus, in Stickman Herb. Amb., 14, 1754.

Tau: Amouli beach trail, Jan. 7, 1922, *Garber* 676.

Ofu: in thicket along southeastern shore, Nov. 26, 1939, *Yuncker* 9511.

Abundant on all islands, Guest. Native name, *pu'a*.

FAMILY CRUCIFERAE

Genus *Nasturtium* R. Brown

Nasturtium sarmentosum (Solander) O. E. Schulz, Engl. Bot. Jahrb. 32: 595, 1902.

Tau: weed in sandy soil, Siufaga, Oct. 2, 1939, *Yuncker* 9171; on beach, Faleasao-Fanga [Faga] trail, Apr. 19, 1922, *Garber* 762; south side of South Cove, Papatea, on tuff at beach, July 15, 1938, *W. Harris* 325; in sand near the beach, Papatea, July 15, 1938, *W. Harris* 81, 100.

Olosega: taro patch, back of Olosega village, June 23, 1925, *Garber* 1089. Native name, *lau taliga*.

FAMILY CAPPARIDACEAE

Genus *Crataeva* Linnaeus

Crataeva religiosa Forster f., Fl. Ins. Austr. Prodr., 35, 1786.

Ofu: exposed coast near Mafafa, alt. 40 m., May 26, 1925, *Garber* 983.

FAMILY CUNONIACEAE

Genus *Weinmannia* Linnaeus

Weinmannia manuana Christophersen, B. P. Bishop Mus., Bull. 154: 10, fig. 2, 1938.

Tau: old taro clearing on trail to peak, alt. 530 m., Jan. 28, 1922, *Garber* 720.

Olosega: top of Piumafua mountain, alt. 630 m., June 17, 1925, *Garber* 1027, 1031; Piumafua ridge, alt. 480 m., June 17, 1925, *Garber* 1066. Native name, *laga'ali*.

FAMILY ROSACEAE

Genus *Parinarium* Aublet

Parinarium glaberrimum Hasskarl, Flora 27: 583, 1844.

Tau: abundant at Fitiuta, Guest.

Ofu: scarce, Guest. Native name, *ifiifi*.

Parinarium insularum A. Gray, U. S. Expl. Exped., Bot. 15(1): 488, pl. 54, 1854.

Scarce on Tau and Olosega, Guest. Native name, *sea*.

FAMILY LEGUMINOSAE

Genus *Leucaena* Benth

Leucaena glauca (Linnaeus) Benth, Hook. Jour. Bot. 4: 416, 1842.

Tau: in thicket near the sea, south of Siufaga, Sept. 29, 1939, *Yunker* 9108. Native name, *lopa samoa*.

Genus *Adenanthera* Royen

Adenanthera pavonina Linnaeus, Sp. Pl., 384, 1753.

Abundant on all of the islands, Guest. Native name, *lopa*.

Genus *Caesalpinia* Linnaeus

Caesalpinia jayabo Maza, Soc. Esp. Hist. Nat., Anal. 19: 234, 1890.

Ofu: at Aofa, alt. 275 m., Sept. 3, 1925, *Garber* 1115. Native name, *anaoso*.

Caesalpinia pulcherrima (Linnaeus) Swartz, Observ. Bot., 166, 1791.

Ofu: cultivated ornamental, village of Ofu, June 1925, *Garber* 1087. Native name, *lau pa*.

Genus *Sophora* Linnaeus

Sophora tomentosa Linnaeus, Sp. Pl., 373, 1753.

Ofu: along southeastern shore near the beach, Nov. 26, 1939, *Yunker* 9496; beach at Muliulu, May 26, 1925, *Garber* 985. Native name, *fua feti'iti'i*.

Genus *Indigofera* Linnaeus

Indigofera suffruticosa Miller, Gard. Dict., 8th ed., no. 2, 1768.

Tau: along Luma-Faleasao trail, alt. 50 m., Sept. 30, 1939, *Yunker* 9127; along trail near Fitiuta village, Sept. 26, 1939, *Yunker* 9053; plateau back of Luma, alt. 60 m., Aug. 2, 1921, *Garber* 550; plateau back of Luma, alt. 105 m., May 28, 1937, *W. Harris* 271.

Genus *Tephrosia* Persoon

Tephrosia purpurea (Linnaeus) Persoon, Syn. Pl. 2: 329, 1807.

Tau: in sandy soil near the shore south of Siufaga, Oct. 4, 1939, *Yunker* 9229.

Ofu: in sandy soil near the shore, Ofu village, Nov. 25, 1939, *Yunker* 9490; Aloafao, June 4, 1925, *Garber* 988. Native name, *avasa*.

Genus *Desmodium* Desvaux

Desmodium heterocarpum (Linnaeus) DeCandolle, Prodr. 2: 337, 1825.

Tau: in thicket along trail south of Siufaga, Sept. 27, 1939, *Yunker* 9083; Sani Ridge back of Fitiuta, alt. 150 m., Aug. 9, 1921, *Garber* 603; Amouli trail, alt. 175 m., Sept. 16, 1921, *Garber* 634; plateau back of Luma, alt. 100 m., Dec. 15, 1921, *Garber* 645a.

Ofu: in coconut grove near the village of Ofu, alt. 150 m., Nov. 25, 1939, *Yunker* 9469; back of Ofu village, alt. 40 m., May 25, 1925, *Garber* 979.

Desmodium umbellatum (Linnaeus) DeCandolle, Prodr. 2: 325, 1825.

Tau: in thicket along Luma-Faleasao trail, alt. 45-50 m., Sept. 30, 1939, *Yuncker 9139*; on lava cliff near the sea, Luma-Faleasao trail, alt. 45-50 m., Sept. 30, 1939, *Yuncker 9121*; Luma-Faleasao trail, Jan. 8, 1922, *Garber 692*. Native names, *lala*, *lau lala*.

Genus **Uraria** Desvaux

Uraria lagopodioides (Linnaeus) Desvaux, Soc. Linn. Paris, Mém. 4: 309, 1826.

Tau: plateau back of Luma, alt. 100 m., Dec. 15, 1921, *Garber 645b*. Native name, *lala*.

Genus **Lourea** Necker

Lourea vespertilionis (Linnaeus f.) Desvaux, Jour. Bot. 1: 122, pl. 5, fig. 18, 1813.

Tau: cultivated ornamental, Luma, Oct. 3, 1939, *Yuncker 9207*.

Genus **Inocarpus** Forster

Inocarpus fagiferus (Parkinson) Fosberg, Washington Acad. Sci., Jour. 31: 95, 1941.

Tau: in open woods along Luma-Faleasao trail, alt. 45-50 m., Sept. 30, 1939, *Yuncker 9130*; Luma, Dec. 15, 1921, *Garber 661*. Abundant on all of the islands, Guest. Native name, *ifi*.

Genus **Abrus** Linnaeus

Abrus precatorius Linnaeus, Syst., ed. 12, 472, 1767.

Ofu: Nuu Islet, July 4, 1925, *Garber 1111*. Native name, *fuefue laulili'i*.

Genus **Erythrina** Linnaeus

Erythrina variegata Linnaeus var. *orientalis* (Linnaeus) Merrill, Interpret. Herb. Amb., 276, 1917.

Tau: in thicket near the shore two miles south of Siufaga, Oct. 1, 1939, *Yuncker 9143*; plateau back of Luma, alt. 100-125 m., Aug. 4, 1921, *Garber 581*.

Ofu: along the southeastern shore, Nov. 26, 1939, *Yuncker 9502*; at water's edge, Toanga [Toaga], June 23, 1925, *Garber 1094*. Moderate on Olosega, Guest. Native name, *gatae*.

Genus **Mucuna** Adanson

Mucuna gigantea (Willdenow) DeCandolle, Prodr. 2: 405, 1825.

Ofu: climbing in trees along the southeastern shore, Nov. 26, 1939, *Yuncker 9512*. Native name, *fuefue*.

Genus **Pueraria** DeCandolle

Pueraria Thunbergiana (Siebold and Zuccarini) Benth, Linn. Soc. Bot., Jour. 9: 122, 1865.

Tau: plateau back of Luma, alt. 125 m., Dec. 15, 1921, *Garber 651*.

Genus *Canavalia* DeCandolle

Canavalia rosea (Swartz) DeCandolle, Prodr. 2: 404, 1825.

Tau: sandy beach, Faga-Faleasao, Apr. 19, 1922, *Garber* 763.

Ofu: plantation, June 5, 1925, *Garber* 1000; beach, Aloafao, July 5, 1925, *Garber* 1114. Native names, *va'a*, *fuefue fai va'a*.

Genus *Vigna* Savi

Vigna marina (Burman) Merrill, Interpret. Herb. Amb., 285, 1917.

Tau: in sandy soil near the beach south of Siufaga, Sept. 29, 1939, *Yuncker* 9101; sandy beach, Fangamalo [Fagamalo], Jan. 7, 1922, *Garber* 684; Faleasao-Fitiuta trail, alt. 20 m., Jan. 8, 1922, *Garber* 700.

Ofu: beach, Aloafao, July 5, 1925, *Garber* 1113. Native names, *lau fuefue*, *fuefue*.

FAMILY OXALIDACEAE

Genus *Oxalis* Linnaeus

Oxalis corniculata Linnaeus var. *repens* (Thunberg) Zuccarini, Akad. Muench., Abh. 1: 230, 1829-30.

Tau: in sand near the beach, Papatea, July 15, 1938, *W. Harris* 82; on lava cliff behind Luma, alt. 45 m., July 24, 1938, *W. Harris* 34.

Ofu: on rocks about the water reservoir near Ofu village, alt. 15 m., Nov. 25, 1939, *Yuncker* 9482.

Olosega: plantation above Olosegauta, alt. 330 m., June 17, 1925, *Garber* 1082. Native name, *a'aa'a*.

FAMILY RUTACEAE

Genus *Evodia* Forster

Evodia hortensis Forster f. *simplicifolia* (Rechinger) K. Schumann, Engl. Bot. Jahrb. 55: 232, 1918.

Ofu: cultivated ornamental, Ofu village, Nov. 25, 1939, *Yuncker* 9446. Abundant on all the islands, Guest. Native name, *usi*.

Evodia samoensis Christophersen, B. P. Bishop Mus., Bull. 154: 12, 1938.

Tau: in thicket on plateau behind Siufaga, Oct. 2, 1939, *Yuncker* 9193; Amouli trail, alt. 200 m., Sept. 16, 1921, *Garber* 617.

Ofu: in open forest on central ridge, alt. 180-200 m., Nov. 25, 1939, *Yuncker* 9448.

Olosega: top of Piumafua mountain, June 17, 1925, *Garber* 1026. Native name, *so'opini*.

Genus *Micromelum* Blume

Micromelum minutum (Forster f.) Seemann, Viti, Govt. Mission, 434, 1862.

Tau: Fitiuta trail, Dec. 16, 1921, *Garber* 668.

Ofu: Nu'u Islet, June 4, 1925, *Garber* 990. On all the islands, Guest. Native name, *talafalu*.

Genus *Citrus* Linnaeus

Citrus aurantifolia (Christman) Swingle, Washington Acad. Sci., Jour. 3: 465, 1913.

Ofu: Aloafao, alt. 5 m., June 6, 1925, *Garber 1015*. Found in all villages in the islands, Guest. Native name, *moli tipolo*.

Citrus Aurantium Linnaeus, Sp. Pl., 782, 1753.

A few seedling trees are found around every village, Guest. Native name, *moli aina*.

Citrus Hystrix DeCandolle, Cat. Hort. Monsp., 97, 1813.

Tau: Fitiuta trail, Aug. 4, 1921, *Garber 569*. Found in or around almost every village, Guest. Native name, *moli u'u*.

Citrus maxima (Burman) Merrill, Interpret. Herb. Amb., 296, 1917.

Tau: a few trees at Fitiuta, Guest. Native name, *moli si-suka*.

Citrus Medica Linnaeus, Sp. Pl., 782, 1753.

A few trees in almost every village, Guest. Native names, *moli patupatu*, *tipolo*.

FAMILY BURSERACEAE

Genus *Canarium* Linnaeus

Canarium samoense Engler, DC Monog. Phanerog. 4: 134, 1883.

On all of the islands, Guest. Native name, *ma'ali*.

Canarium species.

Tau: abundant at village of Tau, Guest. Native name, *a'amatii'e*.

FAMILY MELIACEAE

Genus *Dysoxylum* Blume

Dysoxylum Richii (A. Gray) DeCandolle, Monog. Phanerog. 1: 511, 1878.

Tau: in open forest on plateau behind Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9183*. Native name, *maota*.

Genus *Aglaia* Loureiro

Aglaia samoensis A. Gray, U. S. Expl. Exped., Bot. 15(1): 236, 1854.

Ofu: plantation at Toaga, June 22, 1925, *Garber 1098*. Abundant on all of the islands, Guest. Native name, *laga'ali*.

FAMILY POLYGALACEAE

Genus *Polygala* Linnaeus

Polygala paniculata Linnaeus, Amoen. Acad. 5: 402, 1759.

Tau: along trail on plateau behind Siufaga, Oct. 2, 1939, *Yuncker 9175*. Native names, *fua paepae*, *fua lili'i*.

FAMILY EUPHORBIACEAE

Genus *Glochidion* Forster

Glochidion ramiflorum Forster var. *samoanum* (Mueller-Argau) Pax, Reinecke, Engl. Bot. Jahrb. 25: 645, 1898.

Ofu: in forest on central ridge, alt. 200 m., Nov. 25, 1939, *Yuncker* 9463; in forest on ridge back of Ofu village, alt. 150 m., Nov. 25, 1939, *Yuncker* 9459; in forest on ridge above Ofu village, alt. 350 m., Nov. 27, 1939, *Yuncker* 9519.

Olosega: top of Piumafua mountain, alt. 625 m., June 17, 1925, *Garber* 1038. Abundant on all of the islands, Guest. Native name, *masame*.

Genus *Breynia* Forster

Breynia nivosa (Bull) Small, Torrey Bot. Club, Bull. 37: 516, 1910.

Tau: cultivated ornamental, Siufaga, Oct. 3, 1939, *Yuncker* 9195.

Genus *Phyllanthus* Linnaeus

Phyllanthus Niruri Linnaeus, Sp. Pl., 981, 1753.

Tau: weed in plantation, plateau back of Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker* 9188; in sand, Luma, July 19, 1938, *W. Harris* 24, 343; side of trail behind Luma, Aug. 5, 1938, *W. Harris* 15; in sand near the beach, Papatea, July 15, 1938, *W. Harris* 87, 104.

Ofu: weed near the shore, Nov. 28, 1939, *Yuncker* 9552. Native names, *lau lili'i*, *fua lili'i*.

Phyllanthus simplex Retzius, Obs. 5: 29, 1789.

Tau: among ferns on moist bank along Luma-Faleasao trail, alt. 50 m., Sept. 30, 1939, *Yuncker* 9133; Luma-Faleasao trail, alt. 40 m., Jan. 8, 1922, *Garber* 693.

Olosega: along the trail at Olosegauta, alt. 250 m., June 17, 1925, *Garber* 1074.

Genus *Securinega* A. L. deJussieu

Securinega samoana Croizat, new species.

Securinega (§ *Flueggea*) species, Christophersen, B. P. Bishop Mus., Bull. 128: 120, 1935.

Arbor parva, ligno durissimo insignis, innovationibus flexuosis. Foliis cum petiolis glaberrimis, more generis distichis 9-18 cm. longis, 3-7 cm. latis, tenuissime chartaceis, in sicco olivaceis subconcoloribus, oblanceolato-cuspidatis vel oblanceolato-ellipticis, margine integerrimis, venis ca. 6-7-jugis, petiolo canaliculato vix 5-8 mm. longo. Floribus in glomerulis axillaribus congestis ♂ aut ♀, pulvinulum vix 1-2 cm. longum efformantibus. Perianthio ♂ ca. 2 mm. longo, latoque, lobis ovato-rotundatis 5; staminibus 5 oppositilobis, cum glandulis magnitudine formaeque variis alternantibus, filamentis ca. 1 mm. longo, antheris ca. 0.25 mm. longis, pedicello ca. 3 mm. longo, gracili; pistillodio carnoso 2-partito. Perianthio ♀ illi ♂ subsimili, ovario globuloso-truncato glaberrimo ca. 1-1.5 mm. magno, stylis 3 e basi liberis apice retuse bifidis, semine brunneo leviusculo ad 1.5 mm. longo.

Tau: Siufaga, Oct. 3, 1939, "Tree 6 m. tall, 20 cm. diam." *Yuncker* 9196.

Savaii: Tufutafoe-Falelima, "Edge of forest, alt. about 25 m., tree 5 m. high, female, fr. black", Sept. 1931, *Christophersen* 2765. Type in herbarium of New York Botanical Garden.

Upolu: Vailima "Slopes and rocky woods alt. 100 m. Tree 10-25 m. high, diam. 14-20 cm.", Feb. 1921, *A. J. Eames* 85; Falealupo, 1931, *Christophersen* 2794; Saluafata, "Poumouli, fruit blue black", 1929, *Christophersen* 943.

Without locality, *Y. Powell* 1880.

Christophersen doubts that this plant is native to Samoa and it must be admitted that its characters bring it close to *S. flexuosa* Mueller-Argau, endemic to the Philippine Islands. As a matter of fact, it would prove impossible to separate the Samoan plant specifically from that of the Philippines if the ranges were in common. A careful comparison of representative sets of *S. flexuosa* and *S. samoana* of both sexes and in every stage of growth shows, however, that (1) the Samoan plant has foliage which tends to be more broadly oblong and short-cuspidate than that of the Philippines; (2) the pedicel of the female flower near the young fruit stage reaches 6-8 mm. in *S. flexuosa*, while it does not exceed 4-5 mm. in *S. samoana*; (3) the style of *S. flexuosa* is more or less stipitate, instead of sessile, as in *S. samoana*; (4) the seed is slightly longer and manifestly more voluminous in *S. flexuosa* than it is in *S. samoana*. All these differences, taken severally, would be trifling, but together, with the different ranges, suggest that the description of a new species is advisable. The specific characters of *Securinega* are seldom strongly marked among species of the same affinity.

With the final addition of *S. samoana*, *Securinega* becomes one of the most widespread genera, its range including Oceania, Australasia, Asia proper, Africa, Europe, and America. Native name, *poumuli*.

Genus *Bischofia* Blume

Bischofia javanica Blume, Bijdr. Fl. Jav., 1168, 1826.

Tau: plantation back of Luma, Sept. 13, 1921, *Garber* 613; plateau back of Luma, alt. 105 m., May 29, 1937, *W. Harris* 289. Abundant on all of the islands, Guest. Native name, 'o'a.

Genus *Aleurites* Forster

Aleurites moluccana (Linnaeus) Willdenow, Sp. Pl. 4: 590, 1805.

Tau: plateau back of Luma, alt. 100 m., Sept. 21, 1922, *Garber* 777.

Ofu: on ridge back of Ofu village, alt. 100 m., Nov. 27, 1939, *Yuncker* 9540.

Olosega: abundant, Guest. Native name, *lama*.

Genus *Macaranga* Thouars

Macaranga Harveyana Mueller-Argau, DC Prodr. 15(2): 998, 1866.

Tau: along the Fitiuta trail, alt. 50 m., Sept. 26, 1939, *Yuncker* 9037; Amouli trail, alt. 75 m., Sept. 16, 1921, *Garber* 614.

Ofu: in forest on main ridge, alt. 150 m., Nov. 25, 1939, *Yuncker* 9467; Feaia Point, alt. 75 m., May 25, 1925, *Garber* 978. Native names, *pata*, *pata laitiiti*.

Macaranga stipulosa Mueller-Argau, DC Prodr. 15(2): 1001, 1866.

Tau: Amouli trail, alt. 200 m., Sept. 16, 1921, *Garber* 636.

Olosega: Olosegauta-Piunafua Ridge, alt. 500 m., June 17, 1925, *Garber* 1072. Abundant on all of the islands, Guest. Native name, *pata*.

Genus **Acalypha** Linnaeus

Acalypha boehmerioides Miquel, Fl. Ind. Bat. Suppl., 459, 1861-62.

Tau: dooryard weed, Siufaga, Oct. 6, 1939, *Yuncker* 9280; along the trail behind Luma, Aug. 5, 1938, *W. Harris* 7; in sand near the beach, Papatea, July 15, 1938, *W. Harris* 74.

Ofu: Aloafao, June 6, 1925, *Garber* 1014. Native name, *ogoogo*.

Acalypha grandis Benth, Hook. Lond. Jour. Bot. 2: 232, 1843.

Olosega: at beach, Asanga [Asaga] Pass, June 23, 1925, *Garber* 1093. Native name, *lala*.

Acalypha hispida Burman f., Fl. Ind., 303, pl. 61, fig. 1, 1768.

Tau: cultivated ornamental, Siufaga, Oct. 2, 1939, *Yuncker* 9168.

Acalypha Wilkesiana Mueller-Argau, DC Prodr. 15(2): 817, 1866.

Tau: cultivated ornamental, Siufaga, Oct. 3, 1939, *Yuncker* 9223.

Genus **Codiaeum** (Rumphius) Jussieu

Codiaeum variegatum (Linnaeus) Blume var. *pictum* (Loddiges) Mueller-Argau, DC Prodr. 15(2): 1119, 1866.

Tau: on plateau back of Luma, alt. 105 m., Aug. 4, 1922, *Garber* 769 (form *appendiculatum* Celakovsky). A number of different forms cultivated for ornament about dwellings on the islands of Tau and Ofu were noted but not collected. Native name, *motu*.

Genus **Manihot** Miller

Manihot esculenta Crantz, Inst. Rei Herb. 1: 167, 1766.

Tau: about dwellings, Luma, Sept. 30, 1939, *Yuncker* 9138. Native names, *ufi maniota*, *manioka*, *tapioka*.

Genus **Homalanthus** Jussieu

Homalanthus acuminatus (Mueller-Argau) Pax, Reinecke, Engl. Bot. Jahrb. 25: 648, 1898.

Abundant on all of the islands, Guest. Native name, *mamala*.

Homalanthus nutans (Forster) Pax, in Engler and Prantl, Nat. Pflanzenfam. 3(5): 96, 1890.

Tau: in thicket along Fitiuta trail, alt. 50 m., Sept. 26, 1939, *Yuncker* 9045; Fitiuta trail back of Luma, alt. 60 m., Aug. 4, 1921, *Garber* 553.

Ofu: in thicket on ridge back of Ofu village, alt. 300 m., Nov. 27, 1939, *Yuncker 9534*.

Olosega: Olosegauta-Piumafua Ridge, alt. 475 m., June 17, 1925, *Garber 1029*. Native names, *mamala*, *fanuamamala*.

Genus *Euphorbia* Linnaeus

Euphorbia Atoto Forster f., Fl. Ins. Austr. Prodr., 207, 1786.

Tau: in sandy soil near the shore, Sept. 29, 1939, *Yuncker 9112*; in sandy soil, Luma, July 20, 1938, *W. Harris 340*; in sand near the beach, Papatea, July 15, 1938, *W. Harris 84*.

Ofu: coral beach, Muliulu, May 26, 1925, *Garber 986*. Native names, *pulutai*, *a'atasi*.

Euphorbia hirta Linnaeus, Sp. Pl., 454, 1753.

Tau: weed along Luma-Faleasao trail, Sept. 30, 1939, *Yuncker 9120*; Luma-Faleasao trail, alt. 40 m., Jan. 8, 1922, *Garber 691*; Luma, in sand near the beach, July 20, 1938, *W. Harris 13, 14, 23, 341*; Papatea, in sand near the beach, July 15, 1938, *W. Harris 83, 85, 103*; Faleulu, in plantation, alt. 180 m., July 27, 1938, *W. Harris 237*. Native name, *la'au fai moti*.

Euphorbia prostrata Aiton, Hort. Kew. 2: 136, 1789.

Tau: in sandy soil near the beach, Oct. 2, 1939, *Yuncker 9116*; Luma, in sand near the beach, July 20, 1938, *W. Harris 342*; Papatea, in sand near the beach, July 15, 1938, *W. Harris 86*. Native name, *lau lili'i*.

FAMILY ANACARDIACEAE

Genus *Buchanania* Roxburgh

Buchanania Merrillii Christophersen, B. P. Bishop Mus., Bull. 154: 14, 1938.

Tau: abundant in the mountains and at Fitiuta, Guest. Native name, *nasu*.

Genus *Mangifera* Linnaeus

Mangifera indica Linnaeus, Sp. Pl., 200, 1753.

Tau: Siufaga, Oct. 1, 1939, *Yuncker 9158*. Seedling trees found about almost every village on the islands, Guest. Native name, *mago*.

Genus *Spondias* Linnaeus

Spondias dulcis Parkinson, Jour. Voy. Endeavour, 39, 1773.

Tau: cultivated, Siufaga, Jan. 11, 1922, *Garber 706*. Common on all of the islands, Guest. Native name, *vi*.

Genus *Rhus* Linnaeus

Rhus taitensis Guillemin, Sci. Nat. Bot., Ann. II, 7: 361, 1837.

Tau: in forest on west slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker 9245*.

Ofu: in forest on central ridge, alt. 300 m., Nov. 27, 1939, *Yuncker 9533*. Abundant on all of the islands, Guest. This is a common forest tree. The above cited specimens agree well with those from Upolu and Savaii as reported by Christophersen, which he doubtfully refers to this species. Native name, *tavai*.

FAMILY ICACINACEAE

Genus *Chariessa* Miquel

Chariessa samoensis (A. Gray) Engler, in Engler and Prantl, Nat. Pflanzenfam. III, 5: 245, 1893.

Abundant on all of the islands, Guest. Native names, *ala'a*, *aloalo vao*.

FAMILY SAPINDACEAE

Genus *Pometia* Forster

Pometia pinnata Forster, Charact. Gen. Pl., 110, pl. 55, 1776.

Abundant on all of the islands, Guest. Native name, *tava*.

Genus *Alectryon* Gaertner

Alectryon samoensis Christophersen, B. P. Bishop Mus., Bull. 128: 130, fig. 16, 1935.

Moderate on all of the islands, Guest. Native name, *taputo'i*.

FAMILY RHAMNACEAE

Genus *Colubrina* L. C. Richard

Colubrina asiatica (Linnaeus) Brongniart, Sci. Nat., Ann. 10: 369, 1827.

Tau: in thicket along Luma-Faleasao trail, alt. 50 m., Sept. 30, 1939, *Yuncker 9126*; Luma-Faleasao trail, alt. 40 m., Jan. 8, 1922, *Garber 687*.

Ofu: Nuu Islet, June 4, 1925, *Garber 993*. Native name, *fisoa*.

Genus *Alphitonia* Reissek

Alphitonia zizyphoides (Sprengel) A. Gray, U. S. Expl. Exped., Bot. 15(1): 278, 1854.

Tau: Fitiuta trail, alt. 100 m., Aug. 4, 1921, *Garber 559*.

Ofu: Nuu Islet, alt. 75 m., July 4, 1925, *Garber 1104*. Abundant on all of the islands, Guest. Native name, *toi*.

FAMILY TILIACEAE

Genus *Trichospermum* Blume

Trichospermum Richii (A. Gray) Seemann, Bonplandia 9: 254, 1861.

Tau: in forest on slope south of Siufaga, alt. 300 m., Oct. 4, 1939, *Yuncker 9231*.

Genus *Grewia* Linnaeus

Grewia crenata (J. R. and G. Forster) Setchell, Dept. Marine Biol. Carnegie Inst. Washington 20: 72, 1924.

Abundant on all of the islands, Guest. Native name, *fau'ui*.

Genus *Triumfetta* Linnaeus

Triumfetta Bartramia Linnaeus, Syst., ed. 10, 1044, 1759.

Tau: Sani Ridge back of Fitiuta, alt. 150 m., Aug. 9, 1921, *Garber 602*.

Olosega: Olosegauta, alt. 250 m., June 17, 1925, *Garber 1076*. Native name, *mautofu vao*.

Triumfetta procumbens Forster f., Prodr., 35, 1786.

Tau: in sandy soil, coconut grove near the shore, Sept. 25, 1939, *Yuncker 9022*; beach at Fitiuta, Aug. 8, 1921, *Garber 582*; sandy beach, Faga, April 20, 1922, *Garber 764*.

Ofu: in sandy soil along southeastern shore, Nov. 26, 1939, *Yuncker 9497*. Native name, *fuatala*.

FAMILY MALVACEAE

Genus *Sida* Linnaeus

Sida rhombifolia Linnaeus, Sp. Pl., 684, 1753.

Tau: in sandy soil near the shore, Oct. 1, 1939, *Yuncker 9144*; plateau back of Luma, alt. 60 m., Aug. 2, 1921, *Garber 548*; along the trail behind Luma, Aug. 5, 1938, *W. Harris 16*; in sand along the beach, Papatea, July 15, 1938, *W. Harris 88*; in coconut, breadfruit and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris 195*.

Ofu: Tua, June 7, 1925, *Garber 1020*.

Olosega: Olosegauta-Piumafua Ridge, alt. 525 m., June 17, 1925, *Garber 1075*. Native name, *mautofu*.

Sida samoensis Rechinger, in Fedde, Repert. Nov. Spec. 4: 228, 1907.

Tau: in sand near the beach, Oct. 2, 1939, *Yuncker 9167*.

Genus *Urena* Linnaeus

Urena lobata Linnaeus, Sp. Pl., 692, 1753.

Tau: in sandy soil near the shore two miles south of Siufaga, Oct. 1, 1939, *Yuncker 9142*; plateau back of Luma, alt. 60 m., Aug. 2, 1921, *Garber 545*.

Ofu: weed in plantation near the village of Ofu, Nov. 25, 1939, *Yuncker 9492*. Native name, *mautofu*.

Genus *Hibiscus* Linnaeus

Hibiscus Abelmoschus Linnaeus, Sp. Pl., 696, 1753.

Tau: in swampy area back of Siufaga, Oct. 7, 1939, *Yuncker 9298*; in clearing along trail to Fitiuta, Sept. 26, 1939, *Yuncker 9035*; Sani Ridge above

Fitiuta, alt. 150 m., Aug. 9, 1921, *Garber 601*; Luma-Faleasao trail, Oct. 1930, *Judd*.

Olosega: taro plantation back of Olosegauta, alt. 350 m., June 17, 1925, *Garber 1085*. Native names, *fau tagaloo*, *fua samasama*, *vavae samoa*.

Hibiscus Rosa-sinensis Linnaeus, Sp. Pl., 694, 1753.

Ofu: near the beach, village of Ofu, Nov. 28, 1939, *Yuncker 9565*. A number of hybrid varieties of *Hibiscus* are in cultivation as ornamentals in the various villages about the islands. Native name, *aute*.

Hibiscus Sabdariffa Linnaeus, Sp. Pl., 695, 1753.

Ofu: cultivated, Aloafao, June 4, 1925, *Garber 989*. Native name, *uaina*.

Hibiscus tiliaceus Linnaeus, Sp. Pl., 694, 1753.

Tau: near the shore south of Siufaga, Sept. 29, 1939, *Yuncker 9094*; at the beach, Fitiuta, Aug. 8, 1921, *Garber 583*.

Ofu: near the shore along the southeastern shore, Nov. 26, 1939, *Yuncker 9495*. Abundant on all of the islands, Guest. Native name, *fau*.

Genus *Thespesia* Solander

Thespesia populnea (Linnaeus) Solander, ex. Correa, Mus. Hist. Nat. Paris, Ann. 9: 290, 1807.

Tau: beach at Fagamalo, Jan. 7, 1922, *Garber 683*.

Ofu: near the shore on the northwestern shore, Nov. 28, 1939, *Yuncker 9570*; rocky coast near Tuafanua, May 26, 1925, *Garber 982*. Moderate to abundant on all of the islands, Guest. Native name, *milo*.

Genus *Gossypium* Linnaeus

Gossypium brasiliense Macfayden, Fl. Jam. 1: 72, 1837.

Tau: near dwelling, Siufaga, Oct. 3, 1939, *Yuncker 9217*.

Ofu: Nuu Islet, July 4, 1925, *Garber 1105*. Native name, *vavae samoa*.

FAMILY BOMBACACEAE

Genus *Ceiba* Medikus

Ceiba pentandra (Linnaeus) Gaertner, Fruct. et Semin. 2: 224, pl. 133, fig. 1, 1791.

Tau: in clearing on plateau back of Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9189*.

Ofu: cultivated, Aloafao, June 26, 1925, *Garber 1056*. In every village on the islands, Guest. Native names, *vavae*, *vavae papalagi*.

FAMILY STERCULIACEAE

Genus *Melochia* Linnaeus

Melochia odorata Linnaeus f., Suppl., 302, 1781.

Abundant on all of the islands, Guest. Native name, *ma'o*.

Genus *Theobroma* Linnaeus

Theobroma Cacao Linnaeus, Sp. Pl., 782, 1753.

A few trees near the village of Tau on the island of Tau and also on Ofu, Guest. Native name, *koko* [toto].

Genus *Kleinhovia* Linnaeus

Kleinhovia hospita Linnaeus, Sp. Pl., ed. 2, 1365, 1763.

Tau: Fitiuta trail, alt. 125 m., Aug. 4, 1921, *Garber* 565. Abundant on all of the islands, Guest. Native name, *fu'afu'a*.

Genus *Sterculia* Linnaeus

Sterculia fanaiho Setchell, Dept. Marine Biol. Carnegie Inst. Washington 20: 69, 1924.

Tau: plateau back of Luma, alt. 100 m., Sept. 21, 1921, *Garber* 775.

Ofu: in open woods along the southeastern shore, Nov. 26, 1939, *Yuncker* 9513; Nuu Islet, July 4, 1925, *Garber* 1112. Abundant on all of the islands, Guest. Native name, *fana'io*.

FAMILY GUTTIFERAE

Genus *Calophyllum* Linnaeus

Calophyllum inophyllum Linnaeus, Sp. Pl., 513, 1753.

Tau: near the beach, Siufaga, Oct. 2, 1939, *Yuncker* 9194; in forest back of Luma, alt. 3 m., Jan. 11, 1922, *Garber* 704.

Ofu: in forest on the main ridge, alt. 250 m., Nov. 25, 1939, *Yuncker* 9468. Native name, *fetau*.

Calophyllum samoense Christophersen, B. P. Bishop Mus., Bull. 128: 147, fig. 20, 1935.

Abundant on all of the islands, Guest. Native name, *tamanu*.

FAMILY BIXACEAE

Genus *Bixa* Linnaeus

Bixa Orellana Linnaeus, Sp. Pl., 512, 1753.

Tau: near dwelling, Siufaga, Oct. 3, 1939, *Yuncker* 9224. Moderate on all of the islands, Guest. Native name, *loa*.

FAMILY FLACOURTIACEAE

Genus *Flacourtia* L'Héritier

Flacourtia Rukam Zollinger and Morren, Syst. Verz., 33, 1854.

Tau: in forest on mountain slope south of Siufaga, alt. 200 m., Sept. 27, 1939, *Yuncker* 9063; same locality, alt. 150 m., Sept. 27, 1939, *Yuncker* 9062; in forest two miles south of Siufaga, alt. 180 m., Oct. 1, 1939, *Yuncker* 9163;

plateau back of Luma, alt. 125 m., Dec. 15, 1921, *Garber 646*; plateau back of Luma, alt. 100 m., Sept. 21, 1922, *Garber 776*.

Ofu: in open forest along ridge trail, alt. 200 m., Nov. 27, 1939, *Yuncker 9520*; in open forest on ridge back of Ofu village, alt. 100 m., Nov. 25, 1939, *Yuncker 9464*. Abundant on all of the islands, Guest. Native name, *filimoto*.

FAMILY CARICACEAE

Genus *Carica* Linnaeus

Carica Papaya Linnaeus, Sp. Pl., 1036, 1753.

Occurs on all of the islands both cultivated and spontaneously. Native name, *esi*.

FAMILY BEGONIACEAE

Genus *Begonia* Linnaeus

Begonia species.

Tau: dooryard ornamental, Siufaga, Oct. 3, 1939, *Yuncker 9216*.

FAMILY THYMELAEACEAE

Genus *Phaleria* Jack

Phaleria acuminata (A. Gray) Gilg, in Engler and Prantl, Nat. Pflanzenfam. III, 6a: 225, 1894.

Abundant on all of the islands, Guest. Native name, *sun*.

Phaleria Burnettiana (Bentham) Knuth, Handb. Blütenbiol. III, 1: 522, 1904.

Tau: exposed cliff, Siulagi Point, alt. 75 m., Aug. 26, 1922, *Garber 772*. Abundant on all of the islands, Guest. Native name, *sun*.

FAMILY LYTHRACEAE

Genus *Lagerstroemia* Linnaeus

Lagerstroemia indica Linnaeus, Syst. ed. 10, 1076, 1759.

Tau: near dwelling, cultivated, Siufaga, Oct. 3, 1939, *Yuncker 9201*.

FAMILY LECYTHIDACEAE

Genus *Barringtonia* Forster

Barringtonia asiatica (Linnaeus) Kurz, Asiatic Soc. Beng., Jour. 45(2): 131, 1876.

Tau: abundant along the shore south of Siufaga, Sept. 29, 1939, *Yuncker 9098*; Fitiuta trail, alt. 125 m., Aug. 4, 1921, *Garber 564*. Abundant along the seacoast around all the islands, Guest. Native name, *futu*.

Barringtonia samoensis A. Gray, U. S. Expl. Exped., Bot. 15(1): 508, 1854.

Tau: near the shore, Sept. 27, 1939, *Yuncker 9082*; edge of thicket on plateau behind Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9173*; along trail back of Luma, alt. 30 m., Aug. 8, 1921, *Garber 543*. Moderate to abundant on all of the islands, Guest. Native name, *falaga*.

FAMILY COMBRETACEAE

Genus *Terminalia* Linnaeus

Terminalia Catappa Linnaeus, Mant., 128, 1767.

Ofu: slope of mountain at Aaofa, alt. 15 m., May 26, 1925, *Garber 980*. Abundant on all of the islands, Guest. Native name, *talie*.

FAMILY MYRTACEAE

Genus *Psidium* Linnaeus

Psidium Guajava Linnaeus, Sp. Pl., 470, 1753.

Tau: in thicket near Siufaga, Oct. 7, 1939, *Yuncker 9293*. Native name, *kuava* [*tuava*].

Genus *Decaspermum* Forster

Decaspermum fruticosum Forster, Charact. Gen. Pl., 74, pl. 37, 1776.

Abundant on the island of Olosega, Guest. Native name, *nu'anua*.

Genus *Eugenia* Micheli

Eugenia corynocarpum A. Gray, U. S. Expl. Exped., Bot. 15(1): 528, 1854, Atlas, pl. 65, 1857.

Tau: plateau back of Luma, alt. 150 m., Dec. 15, 1921, *Garber 652, 658*. Native name, *seasea*.

Eugenia inophylloides A. Gray, U. S. Expl. Exped., Bot. 15(1): 521, 1854.

Tau: Amouli trail, alt. 200 m., Sept. 16, 1921, *Garber 637*. Abundant on all of the islands, Guest. Native names, *asi*, *asi vao*.

Eugenia malaccensis Linnaeus, Sp. Pl., 470, 1753.

Found in and around most every village, Guest. Native name, *nonu fiafia*.

Eugenia neurocalyx A. Gray, U. S. Expl. Exped., Bot. 15(1): 512, 1854, Atlas pl. 59, 1857.

On all of the islands, Guest. Native name, *fena*.

Eugenia Richii A. Gray, U. S. Expl. Exped., Bot. 15(1): 510, 1854.

Olosega: Olosegauta-Piunafua ridge, alt. 500 m., June 17, 1925, *Garber 1030*; top of Piunafua mountain, alt. 655 m., June 17, 1925, *Garber 1028*.

FAMILY MELASTOMACEAE

Genus *Melastoma* Linnaeus

Melastoma denticulatum Labillardière, Sert. Austro-Caled. 2: 65, pl. 64, 1825.

Tau: in thicket along trail near Fitiuta, alt. 50 m., Sept. 26, 1939, *Yuncker* 9058; edge of forest on slope south of Siufaga, alt. 240 m., Oct. 4, 1939, *Yuncker* 9232; Amouli trail, alt. 175 m., Sept. 16, 1921, *Garber* 635.

Olosega: Olosegauta-Piumafua ridge, alt. 500 m., June 17, 1925, *Garber* 1037. Native names, *fua lolo*, *moegalo*, *olive vao*.

Genus *Astronidium* A. Gray

Astronidium Pickeringii (A. Gray) var. *samoense* (A. Gray) Christophersen, B. P. Bishop Mus., Bull. 154: 32, 1938.

Tau: in forest on west slope of Mt. Vaoaimanu, alt. 360 m., Oct. 5, 1939, *Yuncker* 9252; on slopes of peak back of Siufaga, alt. 670 m., Jan. 28, 1922, *Garber* 746; in old taro clearing, below peak at back of Siufaga, alt. 530 m., Jan. 28, 1922, *Garber* 721.

Olosega: Olosegauta-Piumafua ridge, alt. 550 m., June 17, 1925, *Garber* 1032. Native name, *matoi*.

FAMILY ONAGRACEAE

Genus *Jussiaea* Linnaeus

Jussiaea erecta Linnaeus, Sp. Pl., 388, 1753.

Tau: in swampy area behind Siufaga, Oct. 7, 1939, *Yuncker* 9294.

Olosega: taro swamp back of Olosega village, June 23, 1925, *Garber* 1091. Native names, *la'avai*, *fua samasama*, *mautofu vao*.

FAMILY ARALIACEAE

Genus *Reynoldsia* A. Gray

Reynoldsia species.

Tau: top of peak back of Tau village, alt. 600-700 m., Jan. 28, 1922, *Garber* 752. Abundant on all of the islands, Guest. Native name, *vi vao*.

Genus *Meryta* Forster

Meryta capitata Christophersen, B. P. Bishop Mus., Bull. 128: 161, fig. 23, 1935.

Tau: in ravine on slope two miles south of Siufaga, alt. 100 m., Oct. 1, 1939, *Yuncker* 9162.

Ofu: in forest on ridge above Ofu village, alt. 300 m., Nov. 27, 1939, *Yuncker* 9545. Native name, *fagufagu*.

Meryta aff. **macrophylla** (Rich) Seemann, Bonplandia 10: 294, 1862.

Tau: Amouli trail, alt. 180 m., Sept. 16, 1921, *Garber* 622.

Olosega: Olosegauta-Piumafua Ridge, alt. 510 m., June 17, 1925, *Garber* 1079. Native name, *fagufagu*.

Genus **Polyscias** Forster

Polyscias Guilfoylei (Bull) L. H. Bailey, Rhodora 18: 153, 1916, var. (?).

Tau: ornamental shrub with coarsely toothed, rounded leaflets, Siufaga village, Oct. 3, 1939, *Yuncker* 9212. Native name, *tanitani*.

Polyscias Reineckei Harms, Engl. Bot. Jahrb. 25: 663, 1898.

Abundant at high elevations on Tau, Guest. Native name, *afia*.

FAMILY UMBELLIFERAE

Genus **Centella** Linnaeus

Centella asiatica (Linnaeus) Urban, in Mart. Fl. Bras. 11(1): 287, 1879.

Tau: in sandy soil near the shore south of Siufaga, Sept. 29, 1939, *Yuncker* 9113; in sandy soil, Luma, July 20, 1938, *W. Harris* 344.

Ofu: sandy soil along the southeastern shore, Nov. 26, 1939, *Yuncker* 9504. Native name, *togo*.

FAMILY MYRSINACEAE

Genus **Maesa** Forskål

Maesa samoana Mez, Pflanzenr. 9(IV. 236): 53, 1902.

Tau: in thicket south of Siufaga, alt. 10 m., Sept. 29, 1939, *Yuncker* 9105; Luma-Faleasao trail, alt. 40 m., Jan. 8, 1922, *Garber* 686.

Ofu: beach at Vaoto, June 23, 1925, *Garber* 1097.

FAMILY PLUMBAGINACEAE

Genus **Plumbago** Linnaeus

Plumbago zeylanica Linnaeus, Sp. Pl., 151, 1753.

Olosega: along rocky shore, Lotufaga by Sili, May 29, 1925, *Garber* 987. Native name, *lau tafifi*.

FAMILY SAPOTACEAE

Genus **Planchonella** Pierre

Planchonella Garberi Christophersen, B. P. Bishop Mus., Bull. 128: 170, fig. 25, 1935.

Ofu: top of Nuu Islet, alt. 75 m., July 4, 1925, *Garber* 1101. Native name, *ala'a*.

Planchonella samoensis (Reinecke) H. J. Lam, Jard. Bot. Buit., Bull. III, 7: 218, fig. 10, 1925.

Scarce on the islands of Tau and Ofu, Guest. Native name, *mamalava*.

FAMILY EBENACEAE

Genus *Diospyros* Linnaeus

Diospyros ellipticifolia (Stokes) Bakhuizen, Gard. Bull. Straits Settlement. 7: 162, 1933.

Tau: top of bluff, north side, Siufaga Point, Aug. 26, 1922, *Garber* 773.

Ofu: top of Nuu Islet, alt. 75 m., July 4, 1925, *Garber* 1102. Native name, *anume*.

Diospyros samoensis A. Gray, Am. Acad., Proc. 5: 326, 1862.

Ofu: in thicket along southeastern shore, Nov. 26, 1939, *Yuncker* 9514, 9516; along beach at Toaga, June 23, 1925, *Garber* 1095; Nuu Islet, July 4, 1925, *Garber* 1103. Abundant on all of the islands, Guest. Native name, *au'aule*.

FAMILY OLEACEAE

Genus *Jasminum* Linnaeus

Jasminum didymum Forster f., Fl. Ins. Austr. Prodr., 3, 1786.

Ofu: Nuu Islet, July 4, 1925, *Garber* 1107. Native name, *fuefue*.

Jasminum pubescens Willdenow, Sp. Pl. 1: 37, 1792.

Tau: near dwelling in Siufaga, Oct. 3, 1939, *Yuncker* 9200.

Jasminum Sambac (Linnaeus) Aiton, Hort. Kew 1: 8, 1789.

Tau: in thicket near the sea two miles south of Siufaga (as escape?), Oct. 1, 1939, *Yuncker* 9141. Native name, *pua sosolo*.

FAMILY LOGANIACEAE

Genus *Geniostoma* Forster

Geniostoma rupestre Forster, Charact. Gen. Pl., 24, pl. 12, 1776.

Tau: in thicket on plateau behind Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker* 9192; in thicket, ravine south of Siufaga, alt. 50 m., Sept. 25, 1939, *Yuncker* 9005; peak back of Siufaga, alt. 650 m., Jan. 29, 1922, *Garber* 755.

Ofu: in thicket on slope behind Ofu village, alt. 45 m., Nov. 25, 1939, *Yuncker* 9477; in thicket on ridge back of Ofu village, alt. 200 m., Nov. 25, 1939, *Yuncker* 9453. Native name, *taitai ipu*.

Genus *Fagraea* Thunberg

Fagraea Berteriana A. Gray, Linn. Soc., Jour. 1: 98, 1857.

Tau: in open woods on plateau behind Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker* 9176; on west slope of Mt. Vaoaimanu, alt. 300 m., Oct. 5, 1939, *Yuncker* 9263; on plateau back of Luma, alt. 125 m., Aug. 4, 1921, *Garber* 580.

Ofu: in open forest on ridge above Ofu village, alt. 200 m., Nov. 27, 1939, *Yuncker* 9535. Moderate on all of the islands, Guest. Native name, *pua lulu*.

FAMILY APOCYNACEAE

Genus *Plumeria* Linnaeus

Plumeria acuminata Aiton, Hort. Kew, ed. 2, 2: 70, 1811.

Cultivated as an ornamental in most villages. Native name *pua fiti*.

Lochnera rosea (Linnaeus) Reichenbach, Conspect., 134, 1828.

Tau: Siufaga village, Oct. 3, 1939, *Yuncker* 9208.

Genus *Alyxia* R. Brown

Alyxia bracteolosa Rich, ex Gray, Am. Acad., Proc. 5: 332, 1862.

Tau: climbing in trees in ravine on slope south of Siufaga, alt. 100 m., Sept. 25, 1939, *Yuncker* 9021; plateau back of Faleasao, alt. 200 m., Aug. 4, 1921, *Garber* 577.

Ofu: climbing in trees on ridge back of Ofu village, alt. 300 m., Nov. 27, 1939, *Yuncker* 9536. Native names, *gau*, *lau maile*, *maile*.

?*Alyxia stellata* (Forster) Roemer and Schultes, Syst. Veg. 4: 439, 1819.

Tau: climbing in trees near Siufaga, Oct. 3, 1939, *Yuncker* 9199; near dwelling, Siufaga, Oct. 3, 1939, *Yuncker* 9227.

Ofu: Feaia Point, alt. 90 m., May 25, 1925, *Garber* 977. Native names, *gau*, *gau lili'i*, *lava*, *lau maile*, *maile*.

Genus *Cerbera* Linnaeus

Cerbera manghas Linnaeus, Sp. Pl., 208, 1753.

Tau: in open forest along Luma-Faleasao trail, alt. 45-50 m., Sept. 30, 1939, *Yuncker* 9134; plateau back of Luma, alt. 60 m., Aug. 2, 1921, *Garber* 546. Native name, *leva*.

FAMILY ASCLEPIADACEAE

Genus *Hoya* R. Brown

Hoya bicarinata A. Gray, Am. Acad., Proc. 5: 335, 1862.

Tau: climbing in thicket in ravine on slope south of Siufaga, alt. 150 m., Sept. 25, 1939, *Yuncker* 9012; Fitiuta trail, alt. 100-125 m., Aug. 4, 1921, *Garber* 556, 566; Amouli trail, alt. 100 m., Sept. 16, 1921, *Garber* 615.

Ofu: climbing in trees in thicket on ridge back of Ofu village, alt. 250 m., Nov. 25, 1939, *Yuncker* 9449; climbing in trees along the southeastern shore, Nov. 26, 1939, *Yuncker* 9509. Native names, *fue se le la*, *olive vao*.

Hoya chlorantha Rechinger, in Fedde, Repert. Nov. Sp. 5: 131, 1908.

Ofu: climbing in thicket on ridge behind Ofu village, alt. 350 m., Nov. 27, 1939, *Yuncker* 9528.

Hoya samoensis Seemann, Fl. Vit., 163, 1866.

Ofu: top of Tumu mountain, alt. 450 m., Sept. 3, 1925, *Garber* 1116.

FAMILY CONVULVACEAE

Genus *Ipomoea* Linnaeus

Ipomoea campanulata Linnaeus, Sp. Pl., 160, 1753.

Ofu: Tua, in plantation, June 5, 1925, *Garber* 999. Native name, *tanamimi*.

Ipomoea gracilis R. Brown, Prodr. Fl. Nov. Holl., 484, 1810.

Tau: climbing in thicket south of Siufaga, Sept. 25, 1939, *Yuncker* 9006; weed in banana plantation above Siufaga, alt. 50 m., Oct. 4, 1939, *Yuncker* 9234; Luma-Faleasao trail, alt. 50 m., Jan. 8, 1922, *Garber* 688; south side of South Cove, Papatea, on tuff at beach, July 15, 1938, *W. Harris* 327; on lava cliff behind Luma, alt. 45 m., July 24, 1938, *W. Harris* 35, 108.

Ofu: climbing in thicket near the northwestern shore, Nov. 28, 1939, *Yuncker* 9563; in thicket along the southeastern shore, Nov. 26, 1939, *Yuncker* 9508. Native names, *tanamimi vao*, *fue tanamimi*.

Ipomoea pes-caprae (Linnaeus) Sweet, Hort. Suburb. Lond., 35, 1818.

Tau: in sandy soil near the beach, south of Siufaga, Sept. 25, 1939, *Yuncker* 9024; sandy beach at Faga, April 20, 1922, *Garber* 765. Native names, *fuefue tai*, *fue moa*, *fuefue tutupatu*.

Ipomoea Quamoclit Linnaeus, Sp. Pl., 159, 1753.

Tau: near dwelling, Siufaga, Oct. 3, 1939, *Yuncker* 9198; on lava rock soil, Fitiuta, alt. 30 m., Oct. 12, 1921, *Garber* 642.

Ipomoea Turpethum (Linnaeus) R. Brown, Prodr. Fl. Nov. Holl., 485, 1810.

Tau: in thicket, low marshy area near Siufaga, Oct. 7, 1939, *Yuncker* 9289; climbing in thicket near the shore, south of Siufaga, Sept. 29, 1939, *Yuncker* 9097; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris* 135.

Ofu: Toaga, climbing on tree at Muaava, alt. 5 m., June 22, 1925, *Garber* 1099. Native name, *fue vao*.

FAMILY BORAGINACEAE

Genus *Cordia* Linnaeus

Cordia subcordata Lamarck, Tabl. Encycl. 1: 421, 1791.

Moderate on the islands of Tau and Olosega. None on Ofu, Guest. Native name, *tauagave*.

Genus *Messerschmidia* Hebenstreit

Messerschmidia argentea (Linnaeus f.) Johnston, Arnold Arb., Jour. 16: 164, 1935.

Tau: rocky shore at Amouli, Sept. 16, 1921, *Garber* 639.

Ofu: in thicket near the shore along the southeastern trail, Nov. 26, 1939, *Yuncker* 9507. Abundant on all of the islands, Guest. Native name, *tausuni*.

FAMILY VERBENACEAE

Genus *Stachytarpheta* Vahl

Stachytarpheta urticaefolia (Salisbury) Sims, Curtis, Bot. Mag. 43: pl. 1848, as *S. urticifolia*, 1816.

Tau: in sandy soil near the beach south of Siufaga, Sept. 25, 1939, *Yuncker* 9026*; plateau back of Luma, alt. 150 m., Dec. 15, 1921, *Garber* 656. Native names, *mautofu vao*, *mautofu tala*.

Genus *Tectona* Linnaeus f.

Tectona grandis Linnaeus f., Suppl., 151, 1781.

A few introduced specimens on Tau, Guest. Native name, *tiki*.

Genus *Premna* Linnaeus

Premna taitensis Schauer, DC Prodr. 11: 638, 1847.

Tau: in thicket on slope south of Siufaga, alt. 150 m., Sept. 29, 1939, *Yuncker* 9117; Fitiuta trail, alt. 150 m., Jan. 24, 1922, *Garber* 708.

Ofu: in thicket on slope back of Ofu village, alt. 100 m., Nov. 25, 1939, *Yuncker* 9462. Abundant on all of the islands, Guest. Native name, *aloalo*.

Genus *Vitex* Linnaeus

Vitex trifolia Linnaeus var. *bicolor* (Willdenow) Moldenke, Known Geogr. Distrib. Verb., 79, 1942.

Tau: in thicket near the shore, Sept. 29, 1939, *Yuncker* 9104*; Luma, Sept. 6, 1921, *Garber* 611.

Ofu: in thicket near the shore, Nov. 28, 1939, *Yuncker* 9566*; Aloafao, June 5, 1925, *Garber* 995. Moderate on all of the islands, Guest. Native name, *namulega*.

Genus *Faradaya* F. Mueller

Faradaya Powellii Seemann, Powell, Seem. Jour. Bot. 6: 342, 1868.

Tau: climbing in trees on the plateau behind Siufaga, Oct. 2, 1939, *Yuncker* 9174; Fitiuta trail above Luma, alt. 60 m., Aug. 4, 1921, *Garber* 552; Fitiuta trail back of Luma, alt. 100 m., Dec. 16, 1921, *Garber* 671; Faleulu valley, in light forest, alt. 210 m., July 27, 1938, *W. Harris* 200.

Ofu: climbing in trees on ridge back of Ofu village, alt. 250 m., Nov. 25, 1939, *Yuncker* 9445. Native name, *mamalupe*.

Genus *Clerodendrum* Linnaeus

Clerodendrum speciosissimum Van Geert ex Morren, Hort. Belg. 3: 322-323, pl. 68 [as "*Clerodendron*"], 1836.

Tau: in coconut plantation along Fitiuta trail, Sept. 26, 1939, *Yuncker* 9059*; pig yard, Faleasao-Fitiuta trail, Jan. 8, 1922, *Garber* 699*.

Ofu: in open weedy area along southeastern shore, Nov. 26, 1939, *Yuncker* 9494.

* Identified by Dr. H. N. Moldenke.

Clerodendrum inerme (Linnaeus) Gaertner, *Fruct. et Semin.* 1: 271, 1788.

Tau: in thicket near the shore, Sept. 29, 1939, *Yuncker 9096*; beach at Fitiuta, Aug. 8, 1921, *Garber 584*; Luma-Faleasao trail, alt. 30 m., Jan. 8, 1922, *Garber 694*.

Ofu: in thicket near the shore, Nov. 28, 1939, *Yuncker 9562*. Native name, *aloalo tai*.

Clerodendrum nutans Wallich, *Num. List Dried Spec., etc.*, no. 1793, 1828.

Tau: near dwelling, Siufaga, Oct. 3, 1939, *Yuncker 9228*.

FAMILY LABIATAE

Genus *Leucas* R. Brown

Leucas flaccida R. Brown, *Prodr. Fl. Nov. Holl.*, 505, 1810.

Tau: weed in sandy soil near the beach, Sept. 25, 1939, *Yuncker 9028*; on lava cliff, Luma, alt. 45 m., July 24, 1938, *W. Harris 378*; Sani Ridge back of Fitiuta, alt. 150 m., Aug. 9, 1921, *Garber 594*; on lava cliff behind Luma, alt. 45 m., July 24, 1938, *W. Harris 36, 93*.

Genus *Coleus* Loureiro

Coleus Blumei Benth, *Lab. Gen. et Sp.*, 56, 1832, var.?

Tau: along the beach trail south of Siufaga, Sept. 29, 1939, *Yuncker 9099*; coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris 239*. Native name, *la'au fai sei*.

Genus *Ocimum* Linnaeus

Ocimum sanctum Linnaeus, *Mant.*, 85, 1767.

Tau: dooryard, Siufaga, Oct. 4, 1939, *Yuncker 9213*. Native name, *la'au sauga*.

FAMILY SOLANACEAE

Genus *Capsicum* Linnaeus

Capsicum annum Linnaeus, *Sp. Pl.*, 188, 1753.

Ofu: cultivated, Aloafao, alt. 7 to 8 m., June 6, 1925, *Garber 1011*. Native name, *polo papalagi*.

Capsicum frutescens Linnaeus, *Sp. Pl.*, 189, 1753.

Tau: Siufaga, Oct. 3, 1939, *Yuncker 9201, 9226*; plateau back of Faleasao, alt. 125 m., Aug. 4, 1921, *Garber 571*; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris 196*.

Ofu: in sandy soil near the shore, Nov. 28, 1939, *Yuncker 9568*; cultivated, Aloafao, June 5, 1925, *Garber 981, 994*. Native names, *polo vao, polo papalagi, polo uli*.

Genus *Solanum* Linnaeus

Solanum nigrum Linnaeus, Sp. Pl., 186, 1753.

Tau: Sani Ridge back of Fitiuta, alt. 150 m., Aug. 9, 1921, *Garber* 597.

Ofu: Feaia Point, alt. 75 to 100 m., May 25, 1925, *Garber* 976. Native names, *magalogalo*, *magalo*, *polo vao*.

Genus *Cestrum* Linnaeus

Cestrum diurnum Linnaeus, Sp. Pl., 191, 1753.

Tau: cultivated, Siufaga, Oct. 6, 1939, *Yuncker* 9277.

Cestrum nocturnum Linnaeus, Sp. Pl., 191, 1753.

Tau: cultivated, Siufaga, Oct. 2, 1939, *Yuncker* 9191.

FAMILY SCROPHULARIACEAE

Genus *Russelia* Jacquin

Russelia equisetiformis Schlechtendal and Chamisso, *Linnaea* 6: 377, 1831.

Tau: cultivated, Siufaga, Oct. 3, 1939, *Yuncker* 9209.

Genus *Angelonia* Humboldt and Bonpland

Angelonia grandiflora C. Morren, Soc. Hort. Gand., Ann. 3: 93, pl. 119, 1847.

Tau: cultivated, Siufaga, Oct. 3, 1939, *Yuncker* 9225.

Genus *Lindernia* Allioni

Lindernia crustacea (Linnaeus) F. Mueller, *Census*, 97, 1882.

Tau: in wet soil along the trail two miles south of Siufaga, alt. 50 m., Oct. 1, 1939, *Yuncker* 9147; Sani Ridge back of Fitiuta, alt. 150 m., Aug. 9, 1921, *Garber* 600; wet rocks, Amouli trail, alt. 175 m., Sept. 16, 1921, *Garber* 623; south side of South Cove, Papatea, on tuff at beach, July 15, 1938, *W. Harris* 324. Native names, *lau tafifi*, *fua lanumoana*.

FAMILY GESNERIACEAE

Genus *Cyrtandra* Forster

?***Cyrtandra compressa*** C. B. Clarke, DC Monogr. Phanerog. 5(1): 279, 1883.

Olosega: Olosegauta-Piunafua ridge, alt. 450 m., June 17, 1925, *Garber* 1040. Native name, *lau taputa*.

?***Cyrtandra Godeffroyi*** Reinecke, Engl. Bot. Jahrb. 25: 677, 1898.

Olosega: Olosegauta-Piunafua ridge, alt. 450 m., June 17, 1925, *Garber* 1067. Native names, *fua taulou*, *atiu vao*.

Cyrtandra pulchella Rich, Gray, Am. Acad. Arts. Sci., Proc. 6: 38, 1862.

Tau: in forest on the west slope of Mt. Vaoaimanu, alt. 450 m., Oct. 5, 1939, *Yuncker* 9253; Amouli trail by a stream, alt. 180 m., Sept. 16, 1921, *Garber* 633.

Olosega: Olosegauta-Piunafua ridge, alt. 550 m., June 17, 1925, *Garber* 1059. Native names, *ma'a*, *pua fafafa*, *pua lulu vao*.

Cyrtandra samoensis A. Gray, Am. Acad. Arts Sci., Proc. 6: 39, 1862.

Tau: in thicket, dark ravine, lower slope of mountain south of Siufaga, alt. 50 m., Sept. 25, 1939, *Yuncker 9018*; trail to plateau at back of Luma, alt. 50 m., Aug. 2, 1921, *Garber 551*.

Olosega: Olosegauta-Piunafua ridge, alt. 530 m., June 17, 1925, *Garber 1034*. Native name, *mafia*.

Genus **Gloxinia** L'Héritier

Gloxinia maculata L'Héritier, Stirp. Nov., 149, 1784-85.

Tau: cultivated, Siufaga, Oct. 3, 1939, *Yuncker 9202*.

FAMILY ACANTHACEAE

Genus **Thunbergia** Linnaeus

Thunbergia erecta (Benth) T. Anderson, Linn. Soc. Bot., Jour. 7: 18, 1864.

Tau: cultivated, near dwelling, Siufaga, Oct. 3, 1939, *Yuncker 9203*.

Genus **Hemigraphis** Nees

Hemigraphis colorata (Blume) Hallier f., Acad. Nat. Cur., Nov. Act. 70: 199, pl. 9, fig. 1, 1897.

Tau: near dwellings, Siufaga, Oct. 3, 1939, *Yuncker 9215*.

Genus **Pseuderanthemum** Radlkofer

Pseuderanthemum species.

Tau: naturalized on slope south of Siufaga, alt. 240 m., Oct. 4, 1939, *Yuncker 9241*; Fitiuta, Aug. 9, 1921, *Garber 606*.

FAMILY RUBIACEAE

Genus **Hedyotis** Linnaeus

Hedyotis biflora (Linnaeus) Lamarck, Tabl. Encycl. 1: 272, 1791.

Tau: in sand near the beach south of Siufaga, Sept. 29, 1939, *Yuncker 9119*; cliff crevices near Faleasao, Jan. 8, 1922, *Garber 698*; south side of South Cove, Papatea, on tuff at beach, July 15, 1938, *W. Harris 328*.

Ofu: on old lava flow along northwest shore, Nov. 28, 1939, *Yuncker 9555*; at beach, Tua, June 7, 1925, *Garber 1019*.

Olosega: taro plantation, back of Olosegauta, alt. 350 m., June 17, 1925, *Garber 1084*.

Hedyotis foetida (Forster) J. E. Smith, in Rees Cyclop. 17(2), 1811.

Tau: cliff crevices, Faleasao-Fitiuta trail, alt. 15 m., Jan. 8, 1922, *Garber 701*.

Ofu: on broken lava near the shore, Nov. 27, 1939, *Yuncker 9553*; on exposed cliff by the sea, Ofu-Samoi, June 7, 1925, *Garber 1022*.

Genus *Neonauclea* Merrill

Neonauclea Forsteri (Seemann) Merrill, Washington Acad. Sci., Jour. 5: 540, 1915.

Tau: in thicket on plateau behind Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9179*; back of Luma, alt. 75 m., Dec. 17, 1921, *Garber 672*.

Ofu: along southeastern shore trail, Nov. 26, 1939, *Yuncker 9506*; Sina, Aloafao, alt. 15 m., June 5, 1925, *Garber 997*. Abundant on all of the islands, Guest. Native name, *ofa*.

Genus *Mussaenda* Linnaeus

Mussaenda frondosa Linnaeus, Sp. Pl., 177, 1753.

Tau: in thicket along Fitiuta trail, Sept. 26, 1939, *Yuncker 9043*; Fitiuta trail, alt. 125 m., Aug. 4, 1921, *Garber 562*; Fitiuta trail back of Luma, alt. 175 m., Aug. 11, 1921, *Garber 610*.

Ofu: along southeastern shore trail, Nov. 26, 1939, *Yuncker 9515*. Native name, *aloalo vao*.

Genus *Tarenna* Gaertner

Tarenna sambucina (Forster f.) Durand, in Drake, Ill. Fl. Mar. Pac. 6: 190, 1890.

Tau: on plateau back of Siufaga, alt. 45 m., Oct. 2, 1939, *Yuncker 9184*; Amouli forest trail, alt. 150 m., Sept. 22, 1922, *Garber 778*.

Ofu: in forest on ridge back of Ofu village, alt. 240 m., Nov. 25, 1939, *Yuncker 9451*; in thicket on central ridge, alt. 300 m., Nov. 27, 1939, *Yuncker 9542*. Moderate to abundant on all of the islands, Guest. Native name, *ma'a-nunu*.

Genus *Canthium* Lamarck

?*Canthium Merrillii* (Setchell) Christophersen, B. P. Bishop Mus., Bull. 128: 201, 1935.

Moderate to abundant on all of the islands, Guest. Native names, *ola, ola sina*.

Genus *Guettarda* Linnaeus

Guettarda speciosa Linnaeus, Sp. Pl., 991, 1753.

Ofu: in thicket along southeastern shore trail, Nov. 26, 1939, *Yuncker 9493*; beach, Nuu Islet, June 4, 1925, *Garber 991*; beach, Nuu Islet, July 4, 1925, *Garber 1109*. Moderate on all of the islands, Guest. Native name, *puapua*.

Genus *Ixora* Linnaeus

Ixora coccinea Linnaeus, Sp. Pl., 110, 1753.

Tau: cultivated, Siufaga, Oct. 3, 1939, *Yuncker 9222*.

Ixora species.

Small to medium-sized tree with very hard wood. Moderate on all of the islands, Guest. Native name, *filofiloa*.

Genus *Psychotria* Linnaeus

Psychotria Garberiana Christophersen, B. P. Bishop Mus., Bull. 154: 51, fig. 12, 1938.

Tau: below top of peak, alt. 680 m., Jan. 28, 1922, *Garber 754*.

Olosega: Olosegauta-Piunafua ridge, alt. 500 m., June 17, 1925, *Garber 1062*.

Psychotria insularum A. Gray, Am. Acad. Arts Sci., Proc. 4: 45, 1860.

Tau: Fitiuta trail, in thicket, Sept. 26, 1939, *Yuncker 9060*; in thicket along trail south of Siufaga, alt. 20 m., Sept. 25, 1939, *Yuncker 9008*; Fitiuta trail, alt. 75 m., Aug. 4, 1921, *Garber 555*; along stream bed on plateau back of Faleasao, alt. 140 m., Aug. 4, 1921, *Garber 573*; old village site near Laufuti, alt. 45 m., May 4, 1922, *Garber 768*.

Ofu: in thicket on slope back of Ofu village, alt. 60 m., Nov. 25, 1939, *Yuncker 9475*; alt. 250 m., *Yuncker 9444*. Abundant on Olosega, Guest. Native name, *matalafi*.

Genus *Geophila* D. Don

Geophila herbacea (Jacquin) O. Kuntze, Rev. Gen., 300, 1891.

Tau: on moist soil along trail, two miles south of Siufaga, alt. 50 m., Oct. 1, 1939, *Yuncker 9148*; on moist soil near Siufaga, Oct. 7, 1939, *Yuncker 9291*; Fitiuta trail, alt. 125 m., Aug. 4, 1921, *Garber 567*; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris 252*. Native names, *olia'a'a*, *lafifi*.

Genus *Morinda* Linnaeus

Morinda citrifolia Linnaeus, Sp. Pl., 176, 1753.

Tau: in thicket along Fitiuta trail, Sept. 26, 1939, *Yuncker 9032*; plateau back of Luma, alt. 90 m., Aug. 4, 1922, *Garber 771*.

Ofu: in thicket on ridge near Ofu village, alt. 100 m., Nov. 25, 1939, *Yuncker 9466*. Abundant on all of the islands, Guest. Native names, *nonu*, *nonu vao*.

Genus *Sarcopygme* Setchell and Christophersen

Sarcopygme pacifica (Reinecke) Setchell and Christophersen, B. P. Bishop Mus., Occ. Papers 11(5): 4, pl. 2, A, B, fig. 20, 1935.

Tau: in forest on west slope of Mt. Vaoaimanu, alt. 350 m., Oct. 5, 1939, *Yuncker 9254*; trail back of Luma, alt. 450 m., Jan. 28, 1922, *Garber 760*. Native names, *u'unu*, *'ulu vao*, *fagufagu*.

FAMILY CUCURBITACEAE

Genus *Melothria* Linnaeus

Melothria samoensis A. Gray, U. S. Expl. Exped., Bot. 15(1): 641, 1854.

Tau: climbing in thicket near Siufaga, Oct. 7, 1939, *Yuncker 9287*; in thicket near the beach, Sept. 29, 1939, *Yuncker 9095*; south side of South Cove,

Papatea, lower edge of strand forest at beach, on tuff, July 15, 1938, *W. Harris* 329. Native name, *meleni vao*.

Genus *Luffa* Tournefort

Luffa cylindrica (Linnaeus) M. Roemer var. *insularum* (A. Gray) Cogniaux, DC Monog. Phanerog. 3: 459, 1881.

Ofu: in waste area near the shore, Nov. 28, 1939, *Yuncker* 9560; along the beach at north end of Aloafao, Sept. 1925, *Garber* 1119. Native name, *meleni vao*.

Genus *Citrullus* Forskål

Citrullus vulgaris Schrader, Linnaea 12: 412, 1838.

Ofu: in sandy soil near the beach, Nov. 28, 1939, *Yuncker* 9569. Native name, *meleni*.

Genus *Cucumis* Linnaeus

Cucumis Melo Linnaeus, Sp. Pl., 1011, 1753.

Tau: in low, waste area near Siufaga, Oct. 6, 1939, *Yuncker* 9284; at Faa-samene Spring, Faleasao, alt. 4-5 m., Jan. 8, 1922, *Garber* 702. Native names, *atiu*, *meleni*.

FAMILY GOODENIACEAE

Genus *Scaevola* Linnaeus

Scaevola frutescens (Miller) Krause, Engler Pflanzenr. 54(IV.277): 125, fig. 25, 1912.

Tau: forming a thicket along the strand south of Siufaga, Sept. 25, 1939, *Yuncker* 9025.

Ofu: in thicket near the shore, Nov. 26, 1939, *Yuncker* 9503. Abundant on all of the islands, Guest. Native name, *to'ito'i*.

FAMILY COMPOSITAE

Genus *Vernonia* Schreber

Vernonia cinerea (Linnaeus) Lessing, Linnaea 4: 291, 1829.

Tau: in sandy soil near the shore south of Siufaga, Sept. 29, 1939, *Yuncker* 9116; in sand, Luma, July 19, 1938, *W. Harris* 26, 345; along the trail behind Luma, Aug. 5, 1938, *W. Harris* 17; in sand near the beach, Papatea, July 15, 1938, *W. Harris* 89, 105; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris* 235; on lava cliff, behind Luma, alt. 45 m., July 27, 1938, *W. Harris* 122.

Ofu: on volcanic rocks along the northwestern shore, Nov. 28, 1939, *Yuncker* 9554; along trail, Toaga, June 23, 1925, *Garber* 1096.

Genus *Adenostemma* Forster

Adenostemma Lavenia (Linnaeus) O. Kuntze, Rev. Gen. 1: 304, 1891.

Tau: Sani Ridge back of Fitiuta, alt. 150 m., Aug. 9, 1921, *Garber* 593.

Genus *Ageratum* Linnaeus

Ageratum conyzoides Linnaeus, Sp. Pl., 839, 1753.

Tau: in open ground along Siufaga-Faleasao trail, alt. 50 m., Sept. 30, 1939, *Yunker* 9124; south side of South Cove, Papatea, near the beach, July 15, 1938, *W. Harris* 330; Luma, face of lava cliff, July 24, 1938, *W. Harris* 379; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris* 194.

Ofu: along trail at beach, June 7, 1925, *Garber* 1021. Native name, *lau taioti*.

Genus *Zinnia* Linnaeus

Zinnia elegans Jacquin, Coll. 3: 152, 1789.

Tau: cultivated, Luma, *Yunker*; Luma, in sand near the beach, July 20, 1938, *W. Harris* 346.

Genus *Siegesbeckia* Linnaeus

Siegesbeckia orientalis Linnaeus, Sp. Pl., 900, 1753.

Tau: Sani Ridge, back of Fitiuta, alt. 150 m., Aug. 9, 1921, *Garber* 604.

Genus *Wedelia* Jacquin

Wedelia biflora (Linnaeus) DeCandolle, in Wight, Contrib. Bot. Ind., 18, 1834.

Tau: weed in coconut plantation, along trail to village of Fitiuta, Sept. 26, 1939, *Yunker* 9054; plateau back of Luma, alt. 60 m., Aug. 2, 1921, *Garber* 547. Native name, *ateate*.

Genus *Synedrella* Gaertner

Synedrella nodiflora (Linnaeus) Gaertner, Fruct. et Semin. 2: 456, pl. 171, fig. 7, 1791.

Tau: in sandy soil near the shore south of Siufaga, Sept. 29, 1939, *Yunker* 9111; plateau back of Luma, alt. 60 m., Aug. 2, 1921, *Garber* 549; in sand, Luma, July 19, 1938, *W. Harris* 27; south side of South Cove, Papatea, on tuff near the shore, July 15, 1938, *W. Harris* 331; along trail behind Luma, Aug. 5, 1938, *W. Harris* 18; in sand near the beach, Papatea, July 15, 1938, *W. Harris* 106; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris* 241; on lava cliff behind Luma, alt. 45 m., July 27, 1938, *W. Harris* 37. Native names, *taioti*, *lau otioti*.

Genus *Bidens* Linnaeus

Bidens pilosa Linnaeus, Sp. Pl., 832, 1753.

Tau: weed in taro patch, near Siufaga, Oct. 6, 1939, *Yunker* 9278; in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris* 198.

Genus **Erechtites** Rafinesque

Erechtites valerianaefolia (Wolf) DeCandolle, Prodr. 6: 295, 1837.

Tau: in sandy soil near the beach, south of Siufaga, Sept. 25, 1939, *Yuncker* 9029; weed in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris* 197. Native name, *fua lele*.

Genus **Emilia** Cassini

Emilia sonchifolia (Linnaeus) DeCandolle, Prodr. 6: 302, 1837.

Tau: on old lava flow near the sea, along Luma-Faleasao trail, alt. 40-45 m., Sept. 30, 1939, *Yuncker* 9123; along trail south of Siufaga, Sept. 9, 1939, *Yuncker* 9107; weed in coconut, breadfruit, and banana plantation, Faleulu, alt. 180 m., July 27, 1938, *W. Harris* 242.

Ofu: in clearing on main ridge, alt. 250 m., Nov. 27, 1939, *Yuncker* 9529. Native name, *fua lele lili'i*.

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