

Family 43. DIOSCOREACEAE

Revision:

Burkill, IH. 1951. *Dioscoreaceae*. Flora Malesiana series 1,4: 293-336.

1. *Dioscorea* Linnaeus

***Dioscorea alata* L.**, Sp. Pl. (1753) 1033; --Merr., Fl. Manila (1912) 151; EPFP 1 (1922) 215; --Burkill, Fl. Males. ser. 1, 4 (1951) 330.

Native of continental Asia and cultivated all over Malesia.

***Dioscorea bulbifera* L.**, Sp. Pl. (1753) 1033; --Merr., Fl. Manila (1912) 151; EPFP 1 (1922) 215; --Burkill, Fl. Males. ser. 1, 4 (1951) 311, Fig. 4a-b, 5f.

var. *bulbifera*

India to China, Malesia to Australia and Pacific Isls; also to the Atlantic coast of Africa (as var. *anthropophagorum* (Chev.) Prain & Burkill),

LUZON: Mountain Province, La Union, Nueva Ecija, Zambales, Bataan, Rizal, Sorsogon, MASBATE, LEYTE, MINDANAO. Thickets at low and medium altitudes.

***Dioscorea cumingii* Prain & Burkill**, J. As. Soc. Beng. ii, 4 (1908) 449; --Merr., EPFP 1 (1922) 216; --Burkill, Fl. Males. ser. 1, 4 (1951) 317, Fig. 5j.

Dioscorea echinata Knuth in Engl. Pflanzenreich 87 (1924) 148; --Merr., EPFP 4 (1925) 242.

var. *cumingii*

LUZON: Apayao, Mountain Province, Benguet, Nueva Vizcaya, Bataan, Rizal, Laguna, Camarines, Sorsogon, MINDORO, MINDANAO. Thickets and forests at low and medium altitudes, ascending to 1400m.

var. *inaequifolia* (Elmer) Burkill

Dioscorea inaequifolia Elmer ex Prain & Burkill in Elmer, LPB 5 (1913) 1595.

S LUZON

var. *polyphylla* (Knuth) Burkill,

Dioscorea polyphylla Knuth in Engl. Pflanzenreich 87 (1924) 148.

N LUZON southward to Rizal.

var. *ramosii* Burkill, ined.

BATAN (Mt Iraya), CAMIGUIN DE BABUYANES (Camiguin Volcano). Burkill hints that this taxon may be conspecific with *D. heptaphylla* Sasaki, Trans. Nat. Hist. Soc. Formosa 21 (1931) 77, of Lanyu (in Taiwan).

***Dioscorea divaricata* Blanco**, Fl. Filip. (1837) 797; --Merr., EPFP 1 (1922) 216; --Burkill, Fl. Males. ser. 1, 4 (1951) 332, Fig. 5q.

Dioscorea oxyphylla Knuth in Engl. Pflanzenreich 87 (1924) 269; --Merr., EPFP 4 (1925) 242.

Dioscorea soror Prain & Burkill in Elmer, LPB 5 (1913) 1598; --Merr., EPFP 1 (1922) 219.

Dioscorea soror var. *glauca* Prain & Burkill, J. As. Soc. Beng. ii, 10 (1914) 34; --Merr., EPFP 1 (1922) 219.

LUZON: Ilocos Norte, Mountain Province, Pangasinan, Pampanga, Bataan, Bulacan, Rizal, Laguna, Quezon, PANAY, CEBU. Low and medium altitude thickets and secondary forests.

***Dioscorea elmeri* Prain & Burkill** in Elmer, LPB 5 (1913) 1594; --Merr., EPFP 1 (1922) 216; --Burkill,

Fl. Males. ser. 1, 4 (1951) 317, Fig. 5i.

BATANES, LUZON: Laguna, Quezon, SAMAR. Low altitude everwet forests, to 800m.

Dioscorea esculenta (Lour.) Burkill, Gard. Bull. Straits Settl. 1 (1917) 396; --Merr., Fl. Manila (1912) 151; EPFP 1 (1922) 217; --Burkill, Fl. Males. ser. 1, 4 (1951) 317, Fig. 5i.
India to Malesia and Polynesia, native only to Thailand and Indochina.

BATANES, LUZON: La Union, Benguet, Cagayan, Nueva Vizcaya, Pangasinan, Bataan, Bulacan, Rizal, Laguna, SEMIRARA. Low altitude thickets and secondary forests. Also often cultivated.

var. fasciculata (Roxb.) Prain & Burkill (1914)

Dioscorea fasciculata Roxb., Fl. Ind. ed. 2, 2 (1832) 801; --Merr., EPFP 1 (1922) 216.

Plants devoid of thorny roots; entirely cultivated.

var. spinosa (Roxb.) Prain & Burkill, (1914)

Plants well provided with thorny roots; includes both cultigens and wild forms

Dioscorea filiformis Blume, Enum. Pl. Jav. 1 (1827) 22; --Merr., EPFP 1 (1922) 217; --Burkill, Fl. Males. ser. 1, 4 (1951) 317, Fig. 5i.
Peninsular Thailand, Peninsular Malaysia, NE Sumatra, Philippines, Java, Lesser Sunda Isls, Moluccas.

LUZON: Nueva Ecija, Bataan, Rizal, Laguna, Batangas, CULION, PALAWAN, JOLO. Low altitude thickets and ravines.

Dioscorea flabellifolia Prain & Burkill in Elmer, LPB 5 (1913) 1593; --Merr., EPFP 1 (1922) 217; --Burkill, Fl. Males. ser. 1, 4 (1951) 309, Fig. 5d.

Palau, Borneo (Sabah), Philippines.

LUZON: Laguna, Sorsogon, CATANDUANES, MINDORO. Low and medium altitude humid forests.

Dioscorea grata Prain & Burkill, J. As. Soc. Beng. ii, 10 (1914) 35; --Merr., EPFP 1 (1922) 217; --Burkill, Fl. Males. ser. 1, 4 (1951) 317, Fig. 5i.
Philippines, NW New Guinea.

LUZON: Rizal. No Philippine data on habitat, but in New Guinea reported at 300m in Agathis forest.

Dioscorea hispida Dennst., Schlüssel Hort. Malabar. (1818) 33; --Merr., EPFP 1 (1922) 217; --Burkill, Fl. Males. ser. 1, 4 (1951) 317, Fig. 5i.

var. hispida

W India to SW China and Taiwan, across Malesia from Peninsular Malaysia to New Guinea, and also New Ireland. According to Burkill (op. cit. p. 319), occurrence in New Ireland and New Guinea may be attributed to man.

Throughout the Philippines in thickets and regrowth forests at low and medium altitudes.

var. daemona (Roxb.) Prain & Burkill

Occurrence in RP needs verification.

Dioscorea loheri Prain & Burkill, J. As. Soc. Beng. ii, 10 (1914) 33; --Merr., EPFP 1 (1922) 217; --Burkill, Fl. Males. ser. 1, 4 (1951) 332.

LUZON: Rizal. Low altitude thickets. According to Merrill (1922, loc. cit.) perhaps referable to *D. divaricata* Blanco.

Dioscorea luzonensis Schauer, Nov. Act. Acad. Nat. Cur. 19 (1843) Suppl. 1: 444; --Merr., EPFP 1 (1922) 218; --Burkill, Fl. Males. ser. 1, 4 (1951) 325, Fig. 4f.

LUZON: Ilocos Norte, Ilocos Sur, La Union, Mountain Province, Nueva Vizcaya, Bulacan, Rizal, Laguna, Batangas, Quezon, PALAWAN. Chiefly at low and medium

altitude thickets. Common in the provinces near Manila where there are two drier breaks in the year. Flowering September or earlier.

Dioscorea merrillii Prain & Burkill in Elmer, LPB 5 (1913) 1598; --Merr., EPFP 1 (1922) 218; --Burkill, Fl. Males. ser. 1, 4 (1951) 331.
MINDORO, MINDANAO: Davao (Mt Apo). Old clearings and thickets, altitude c. 700m.

Dioscorea nummularia Lam., Encycl. Meth. 3 (1789) 231; --Merr., EPFP 1 (1922) 218; --Burkill, Fl. Males. ser. 1, 4 (1951) 331.

Dioscorea nummularia var. *glauca* Prain & Burkill, J. As. Soc. Beng. ii, 10 (1914) 35; --Merr., EPFP 1 (1922) 218.

Pacific as far as Tahiti (where perhaps an introduced plant) to E Malesia, westward to N corner of Borneo and Sulawesi, and the Philippines. Not yet recorded from the Lesser Sunda Isls.

LUZON: Mountain Province to Sorsogon, in most or all provinces, POLILLO, LEYTE, CAMIGUIN, MINDANAO, BASILAN. Low and medium altitude thickets.

Dioscorea palawana Prain & Burkill, Kew Bull. (1925) 59; --Merr., EPFP 4 (1925) 242; --Burkill, Fl. Males. ser. 1, 4 (1951) 305.

N PALAWAN.

Dioscorea pentaphylla L. Sp. Pl. (1753) 1032; --Merr., Fl. Manila (1912) 152; EPFP 1 (1922) 218; --Burkill, Fl. Males. ser. 1, 4 (1951) 315, Fig. 5g, 6c.

var. malaica Prain & Burkill, J. As. Soc. Beng. ii, 10 (1914) 23.

India to SW China (Yunnan), southward through Peninsular Malaysia to New Guinea.

LUZON: Bataan, Rizal, Laguna, PANAY. Low and medium altitude thickets.

var. palmata Burkill

Philippines, Timor.

Dioscorea peperoides Prain & Burkill in Elmer, LPB 5 (1913) 1597; --Merr., EPFP 1 (1922) 219; --Burkill, Fl. Males. ser. 1, 4 (1951) 325.

Dioscorea peperoides var. *sagittifolia* Prain & Burkill, J. As. Soc. Beng. ii, 10 (1914) 28; --Merr., EPFP 1 (1922) 219.

LUZON: Benguet, Nueva Vizcaya, Rizal, GOLO, PALAWAN. Thickets up to 1300m. In Palawan occurring on limestone formations at sea level.

Excluded and doubtful species:

Dioscorea mindanaensis Knuth in Engl. Pflanzenreich 87 (1924) 271; --Merr., EPFP 1 (1925) 242.

“The name is virtually a *nomen nudum*, the scrap of which it was given being inadequate even for the establishment of the section. But it is interesting to know that a *Dioscorea* occurs on the E slopes of Mt Apo in MINDANAO (S Philippines) at that considerable height of 2000m.” --Burkill, FM ser. 1, 4 (1951) 335.

Apparently unaccounted for in Burkill's FM revision.:

Dioscorea wilkesii Uline ex Knuth in Engl. Pflanzenreich 87 (1924) 271; --Merr., EPFP 4 (1925) 242.

LUZON (Laguna, Los Banos), *Wilkes Expedition s.n.*

2. *Stenomeris* Planchon

Stenomeris borneensis Oliv. in Hook., Icon. Pl. 4 (1894) t. 2328; --Burkill, Fl. Males. ser. 1, 4 (1951)

297, Fig. 1 l-m.
Stenomeris mindanaensis Knuth in Engl. Pflanzenreich 87 (1924) 345; --Merr., EPFP 1 (1925) 242.
Sumatra (E Coast), Peninsular Malaysia, Borneo, Philippines.
MINDANAO.

Stenomeris dioscoreifolia Planch., Ann. Sci. Nat. Bot. iii, 18 (1852) 320; --Merr., EPFP 1 (1922) 219; --Burkill, Fl. Males. ser. 1, 4 (1951) 295, Fig. 1b-k.
Stenomeris cumingiana Becc., Nuov. Giorn. Bot. Ital. 2 (1870) 8, t. 2; --Merr., EPFP 1 (1922) 219.
Stenomeris wallisii Taubert in Engl., Bot. Jahrb. 15 (1893) Beibl. 38: 2; --Merr., EPFP 1 (1922) 220.
LUZON: Rizal, Laguna, Quezon, Albay, Sorsogon, MINDORO, SIBUYAN, CATANDUANES, BILIRAN, LEYTE, MINDANAO, DINAGAT. Lowland and medium altitude forests. Thickets and old clearings.