

## Family 169. RHAMNACEAE

### Literature:

Latiff, A. 1989. *Rhamnaceae*. Tree Flora of Malaya 4: 197-301.

Schirarend, C 1995. *Rhamnaceae*. In Soepadmo & KM Wong, Tree Flora of Sabah and Sarawak 1: 305-319.

### **Alphitonia** Reissek ex Endlicher

**Alphitonia excelsa** (Fenzl) Reiss. ex Endl., Gen. Pl. (1840) 1098; --Schirarend, in Soepadmo & KM Wong, Tree Fl. Sabah & Sarawak 1 (1995) 308, Fig. 1.

*Alphitonia philippinensis* Braid, Kew Bull. (1925) 183; --Merr., EPFP 4 (1925) 244.

*Alphitonia zizyphoides* Merr., EPFP 2 (1923) 525, *non* Sprengel

NE Australia, Moluccas, Borneo (Sabah, Sarawak, Brunei, Kalimantan) and the Philippines. LUZON: Benguet, Ifugao, Rizal, Laguna, Camarines, MINDORO, PALAWAN, PANAY, GUIMARAS, NEGROS, LEYTE, SAMAR, MINDANAO: Surigao. Low and medium altitude forests.

### **Berchemia** de Candolle

**Berchemia philippinensis** Vidal, Rev. Pl. Vasc. Filip. (1886) 91; --Merr., EPFP 2 (1923) 524.

LUZON: Mountain Province, Benguet, Isabela, MINDANAO: Davao (Mt Apo). Thickets on exposed slopes, 1200-1600m.

### **Colubrina** LC Richard ex Brongniart

**Colubrina asiatica** (L.) Brongn., Ann. Sci. Nat. I, 10 (1827) 369; --Merr., Fl. Manila (1912) 309; EPFP 2 (1923) 525; --Schirarend, in Soepadmo & KM Wong, Tree Fl. Sabah & Sarawak 1 (1995) 311.

India, China, throughout Malesia. Widespread throughout the Philippines. Along seashores and borders of tidal streams.

### **Gouania** Linnaeus

**Gouania javanica** Miq., Fl. Ind. Bat. 1<sup>1</sup> (1856) 649; --Merr., EPFP 3 (1923) 525.

India to the Mascarene Isls, Indochina, Malaya. N LUZON to MINDANAO. In thickets at low and medium altitudes. According to Merrill, *loc. cit.*, this is probably better placed as a pubescent variety of *G. tiliaefolia* and also to be compared with *G. denticulata* Sm.

**Gouania tiliaefolia** Lam., Encycl. 3 (1789) 5; --Merr., EPFP 3 (1923) 526.

*Gouania microcarpa* Rolfe, J. Bot. 23 (1885) 211; --Merr., Fl. Manila (1912) 309.

India to the Mascarenes, Indochina, Peninsular Malaysia and the Philippines. N LUZON to MINDANAO. Lowland and medium altitude thickets.

### **Rhamnus** Linnaeus

**Rhamnus javanica** Miq., Fl. Ind. Bat. 1 (1856) 647; --Soejarto et al. 1995. Prelim. Checklist Fl. Pl. Palawan.

**Extra-Philippine distribution?** PALAWAN: Victoria Mtns & Mt Mantalingahan. Based on *PNH 3830 Sulit* and *1211 Edaño*, respectively.

**Rhamnus mollis** Merr., *PJS* 20 (1922) 405; *EPFP* 2 (1923) 525.  
LUZON: Mountain Province. Mossy forest, c. 1800m.

**Rhamnus philippinensis** C Robinson, *PJS* 6 c (1911) Bot. 342; --Merr., *EPFP* 2 (1923) 524.  
LUZON: Mountain Province, Benguet, Nueva Vizcaya, **Tayabas**, Rizal, MINDORO. Thickets, alt. 600-1800m.

**Rhamnus pulogensis** Merr., *PJS* 5 c (1910) Bot. 359; --Merr., *EPFP* 2 (1923) 525.  
LUZON: Mountain Province, Benguet (Mt Pulog), Rizal. Mossy forest, alt. c. 2400m on Mt Pulog.

### **Sageretia** Brongniart

**Sageretia hamosa** Brongn., *Ann. Sci. Nat.* 10 (1826) 360; --Merr., *PJS* 27 (1925) 35; *EPFP* 4 (1925) 253.  
Sri Lanka, India, Taiwan, Philippines, Java. LUZON: Quezon (Umiray, based on *Loher 14009*).

**Sageretia theezans** (L.) Brongn., *Ann. Sci. Nat.* I, 10 (1827) 360; --Merr., *EPFP* 2 (1923) 524.  
India, China, Taiwan, Philippines. LUZON: Ilocos Sur, Mountain Province, Benguet, Zambales, Bataan, Rizal. Thickets, alt. 900-1500m.

### **Smythea** Seemann

**Smythea pacifica** Seem., *Bonplandia* 9 (1861) 255; --Merr., *EPFP* 2 (1923) 521.  
Sumatra, Peninsular Malaysia, Penang, Borneo, Philippines, Lesser Sunda Isls (Timor Laut), Moluccas (Aru), Solomon Isls, Fiji. STA CRUZ (off Zamboanga in Mindanao, based on Merrill 11626). Thickets on coastal coral limestone.

### **Ventilago** Gaertner

**Ventilago brunnea** Merr., *PJS* 13 c (1918) Bot. 25; *EPFP* 2 (1923) 521.  
LUZON: Aurora. Lowland forests.

**Ventilago dichotoma** (Blanco) Merr., *Govt. Lab. Publ. (Philipp.)* 27 (1905) 32; *EPFP* 2 (1923) 521.  
LUZON: Rizal, Laguna, Sorsogon, PALAWAN. Low and medium altitude forests and thickets.

**Ventilago lanceolata** Merr., *PJS* 10 c (1915) Bot. 330; *EPFP* 2 (1923) 521.  
BILIRAN. Low altitude thickets.

**Ventilago lucens** Miq., *Fl. Ind. Bat. Suppl.* (1860-61) 330; --Merr., *EPFP* 2 (1923) 521.  
Sumatra. LUZON: Aurora prov., based on Merrill 1105, in thickets or forests at low altitude. Accdg. to Merrill, loc. cit., identification to Miquel's species not certainly correct.

**Ventilago luzoniensis** Vidal, *Rev. Pl. Vasc. Filip.* (1886) 90; --Merr., *EPFP* 2 (1923) 521.  
LUZON: Tarlac, Rizal. Probably in thickets at low altitudes.

**Ventilago multinervia** Merr., *PJS* 9 c (1914) Bot. 369; *EPFP* 2 (1923) 521.  
LUZON: Apayao, LEYTE. Lowland thickets.

**Ventilago oblongifolia** Blume, *Bijdr.* (1826) 1144; --Merr., *EPFP* 2 (1923) 521.

Peninsular Malaysia, Java and the Philippines. LUZON: Ilocos Norte, Bulacan, Laguna, MINDORO, PALAWAN. Lowland thickets and forests.

**Ventilago palawanensis** Elmer, LPB 5 (1913) 1829; --Merr., EPFP 2 (1923) 521. --Type: Elmer 13224 (isotypes in A, F, GH, NY, US). Palawan: Mt Pulgar. Primary forest along stream, alt. c. 150m. PALAWAN: Mt Bloomfield; Mt Pulgar; Irawan River Valley. Lowland forests.

### **Ziziphus** Miller

**Ziziphus angustifolius** (Miq.) Hatus. & Steen., Nova Guinea, Bot. 3 (1960) 13.

*Ziziphus inermis* Merr., Govt. Lab. Publ. (Philipp.) 35 (1906) 37; EPFP 2 (1923) 522.

*Ziziphus grewioides* (Warb.) Perry, Blumea 7 (1954) 595.

India, Myanmar, Thailand, Sumatra, Peninsular Malaysia, Borneo (Sabah, Brunei, Sarawak, Kalimantan), Sulawesi, Maluku (Seram), New Guinea (SE), Solomons and Philippines: LUZON (Cagayan, Isabela, Nueva Vizcaya, Rizal, Laguna, Camarines provinces, Albay, Sorsogon); MINDORO; PALAWAN; MASBATE, BILIRAN; SAMAR; LEYTE; MINDANAO (Surigao, Agusan del Norte, Davao, Lanao, Zamboanga). Forests at low altitudes.

**Ziziphus crebrivenosa** C Robinson, PJS 3 c (1908) Bot. 201; --Merr., EPFP 2 (1923) 522; --Schirarend, in Soepadmo & KM Wong, Tree Fl. Sabah & Sarawak 1 (1995) 318.

Borneo, Sulawesi, Philippines: SAMAR, MINDANAO (Agusan, Bukidnon, Zamboanga, Davao). Primary forests along streams at low and medium altitudes.

**Ziziphus cumingiana** Merr., PJS 1 (1906) Suppl. 206; EPFP 2 (1923) 522; --Schirarend, in Soepadmo & KM Wong, Tree Fl. Sabah & Sarawak 1 (1995) 317.

#### **var. cumingiana**

Borneo (Sabah) and the Philippines. LUZON: Cagayan, Rizal, Laguna, Quezon, Sorsogon, ALABAT, MINDORO, PALAWAN, LEYTE, SAMAR, MINDANAO: Zamboanga, Lanao, Surigao. Lowland and medium altitude thickets and forests.

**var. pilosa** Merr., EPFP 2 (1923) 522.

LUZON: Rizal, Camarines, MINDORO. Lowland forests.

**Ziziphus hutchinsonii** Merr., PJS 4 c (1909) Bot. 288; --Merr., EPFP 2 (1923) 522.

MINDANAO: Zamboanga, Davao. Low altitude forests.

**Ziziphus jujuba** (L.) Lam., Encycl. 3 (1789) 318; --Merr., Fl. Manila (1912) 308; EPFP 2 (1923) 523.

Introduced from tropical Asia. Widely distributed in the Philippines as a cultivated or semi-cultivated tree, scarcely naturalized, here universally known as manzanitas.

**Ziziphus otañesii** Merr., PJS 10 c (1915) Bot. 40; --Merr., EPFP 2 (1923) 523. Type: BS 17964 Otañes.

LUZON: Pangasinan. Lowland thickets or forests.

**Ziziphus palawanensis** Elmer, LPB 5 (1913) 1828; --Merr., EPFP 2 (1923) 523. Type: Elmer 12891 (isotypes in A, F, GH, NY\*, US\*). Palawan: Mt Pulgar, Lowland primary forests, c. 225m.

PALAWAN. Known only from the type collection. Closely allied to the Malayan *Z. calophylla* Wall.

**Ziziphus suluensis** Merr., PJS 30 (1926) 408; --Schirarend, in Soepadmo & KM Wong, Tree Fl. Sabah & Sarawak 1 (1995) 318. Type: BS 44295 Ramos & Edaña (isotypes in NY\*, US\*). Tawitawi: Damp forests along small streams at low altitudes.

Sumatra, Borneo, Moluccas and the Philippines. TAWI-TAWI. Lowland forests.

**Ziziphus talanai** (Blanco) Merr., Sp. Blancoanae (1918) 244; --Merr., EPFP 2 (1923) 523.

Ziziphus zonulata Blanco, Fl. Filip. ed. 2 (1845) 120; --Merr., Fl. Manila (1912) 308.  
N LUZON to PALAWAN and MINDANAO. Common in lowland forests.

**Ziziphus trinervia** (Cav.) Poir. *in* Lam., Encycl. Suppl. 3 (1813) 192; --Merr., Fl. Manila (1912) 308; EPFP 2  
(1923) 523.

LUZON: Ilocos Norte, La Union, Pangasinan, Zambales, Bataan, Bulacan, Rizal, Cavite, Laguna, Batangas, Quezon. Common in low altitude forests and thickets.

Zizyphus =Ziziphus