Family 45. MUSACEAE

Literature:

Ensete Horaninow

Ensete edule Bruce ex Horan., xxxx: --Cheeseman, Kew Bull. 2 (1947, publ. 1948) 100.
Musa ensete Gmel., Syst. Nat. 13(2) (1791) 567.

Ensete glaucum (Roxb.) Cheeseman, Kew Bull. 2 (1947, publ. 1948) 101; --Musa glauca Roxb., Pl. Coromandel. 3 (1819) t. 300; --Teodoro, PJS 10 c (1915) Bot. 387; --Merr., EPFP 1 (1922) 221.
Musa trogloodytarum L. var. dololiformis Blanco, Fl. Filip. (1837) 855.
Myanmar, Pegu.
LUZON: Cavite, Laguna. Ravines, etc., at low and medium altitudes.

Musa Linnaeus

Musa alinsanaya RV Valmayor in Valmayor et al., Philip. Agric. Scientist 87 (2004) 117. --Type:
Leilta Gonzalez VH 1280 (Leyte State University, Botanical Herbarium, holo). Leyte: Baybay, Leyte State University, Musa Germplasm Bank, 10 Jul 2003.
The name was published illegitimately twice (Valmayor 2001: 330; Valmayor et al. 2002: 240) (McNeill et al. 2006: Art. 37.7), since the holotype was not indicated. Valmayor’s (2001) description is based upon a putative hybrid M. bankii × textilis, characterised by Brewbaker & Gorrez (1956:263). The plant was taken into the cultivation from Philippines (Valmayor 2001).


var. magna Blanco, Fl. Filip. (1837) 244; Teodoro, PJS 10 c (1915) Bot. 413; --Quisumb., Philip. Agr. Rev. 12 (1919) 67, t. 12, Fig. 212, 213; --Merr., EPFP 1 (1922) 222.
Planted here and there for its fruit. Endemic?

var. maxima Blanco, Fl. Filip. (1837) 245; Teodoro, PJS 10 c (1915) Bot. 414; --Merr., EPFP 1 (1922) 222.
Planted here and there for its fruit. Endemic?

var. subrubrea Blanco, Fl. Filip. (1837) 245; --Teodoro, PJS 10 c (1915) Bot. 414; --Merr., EPFP 1 (1922) 222.
Planted here and there. Endemic?

Musa sapientum L., Syst. ed. 10 (1759) 1303; --Teodoro, PJS 10 c (1915) Bot. 393; --Merr., EPFP 1 (1922) 222;
Musa x paradisiaca L. ssp. sapientum Kuntze, Rev. Gen. Pl. 1 (1892) 692.
var. sapientum
The familiar table bananas, usually distinguished from the plantains (Musa paradisiaca L.) in the consistency and character of the mature fruits.
Musa sapientum has been repeatedly shown to represent Musa cultivars (AB, AAB, ABB group). Therefore all infraspecific taxa described represent various cultivars, unless otherwise shown. According to Simmonds (1960b), Linnaeus originally applied the name M. sapientum to the “Silk fig” (AAB group).

**var. angao** Quisumb., Philip. Agr. Review 12(3) (1919) 58, t. 5, Fig. 30; t. 7, Fig. 69; t. 9, Fig. 126; t. 11, Fig. 192, 193; t. 26, Fig. 2; --Merr., EPFP 1 (1922) 222.

MINDANAO: Misamis. Cultivated at Los Baños.

**var. baca** Quisumb., Philip. Agr. Review 12(3) (1919) 51, t. 5, Fig. 23; t. 7, Fig. 60; t. 9, Fig. 118; t. 11, Fig. 176, 177; --Merr., EPFP 1 (1922) 223.

LUZON: Cavite. Cultivated at Los Baños.

**var. binutig** Teodoro, PJS 10 c (1915) Bot. 401, t. 10, Fig. 1-5; --Merr., EPFP 1 (1922) 223;

Musa sapientum var. grandis Teodoro, Philip. Agr. Review 12(3) (1919) 35, t. 4, Fig. 7; t. 6, Fig. 45; t. 9, Fig. 102; t. 10, Fig. 144, 145; t. 10, Fig. 144, 145; --Merr., EPFP 1 (1922) 226.

Apparently from Leyte. Cultivated at Los Baños.

**var. canara** Teodoro, PJS 10 c (1915) Bot. 406, t. 10, Fig. 6-10; --Merr., EPFP 1 (1922) 223;

Cultivated at Los Baños. Origin unknown but probably Philippine, and very likely from Camarines province, where kanara is a well-known banana.

**var. canaya** Quisumb., Philip. Agr. Rev. 12 (1919) 44, t. 4, Fig. 18; --Merr., EPFP 1 (1922) 223.

MINDANAO: Surigao. Cultivated at Los Baños.

**var. cinerea** (Blanco) Teodoro, PJS 10 c (1915) Bot. 397, t. 13, Fig. 1-5; --Merr., EPFP 1 (1922) 223;

Musa sapientum l. var. cinerea (Blanco) Teodoro, PJS 10 c (1915) Bot. 397; --Musa paradisiaca l. var. cinerea Blanco, Fl. Filip. (1837) 250.

One of the most common bananas in the Philippines. Latundan.

**var. compressa** (Blanco) Teodoro, PJS 10 c (1915) Bot. 408, t. 7, Fig. 1-5; --Merr., EPFP 1 (1922) 223; --Musa paradisiaca l. var. compressa Blanco, Fl. Filip. (1837) 240.

A very common banana in most parts of the Philippines. Bisco, Obispo, or sabá. Probably

**var. daryao** Teodoro, PJS 10 c (1915) Bot. 403, t. 8, Fig. 1-5; --Merr., EPFP 1 (1922) 224.

LEYTE. Cultivated at Los Baños.

**var. dinalaga** Quisumb., Philip. Agr. Review 12(3) (1919) 55, t. 5, Fig. 31; t. 7, Fig. 66; t. 9, Fig. 122; t. 11, Fig. 184, 185; t. 26, Fig. 1; --Merr., EPFP 1 (1922) 223.

LUZON: Quezon. Cultivated at Los Baños.

**var. dool** Quisumb., Philip. Agr. Review 12(3) (1919) 35, t. 4, Fig. 6; t. 6, Fig. 44; t. 9, Fig. 101; t. 10, Fig. 142, 143; t. 15, Fig. 1; --Merr., EPFP 1 (1922) 223.

MINDANAO: Bukidnon. Cultivated at Los Baños.

**var. eda** Quisumb., Philip. Agr. Review 12(3) (1919) 37, t. 4, Fig. 9; t. 6, Fig. 47; t. 9, Fig. 104; t. 10, Fig. 148, 149; t. 15, Fig. 1; --Merr., EPFP 1 (1922) 223.

MINDANAO: Surigao. Cultivated at Los Baños.

**var. flabellata** Quisumb., Philip. Agr. Review 12(3) (1919) 66, t. 5, Fig. 35; t. 8, Fig. 78; t. 12, Fig. 208, 209; t. 29, Fig. 2; --Merr., EPFP 1 (1922) 224.
LUZON: Bulacan, Laguna. Cultivated at Los Baños. Perhaps better placed under *M. paradisiaca* L.

**var. galatayan** Quisumbing., *Philip. Agr. Review* 12:3 (1919) 40, t. 4, Fig. 13; t. 6, Fig. 50; t. 9, Fig. 108; t. 10, Fig. 154, 155; t. 18, Fig. 1; --Merr., *EPFP* 1 (1922) 224.

LUZON: Cavite. Cultivated at Los Baños.

**var. garangao** Teodoro, *PJS* 10 c (1915) Bot. 401, t. 10, Fig. 6-10; --Merr., *EPFP* 1 (1922) 224; LEYTE. Cultivated at Los Baños.

**var. glaberrima** (Blanco) Teodoro, *PJS* 10 c (1915) Bot. 399, t. 15, Fig. 1-5; --Merr., *EPFP* 1 (1922) 224; --*Musa paradisiaca* L. var. glaberrima Blanco, *Fl. Filip.* (1837) 245.

LUZON: Rizal, Laguna. Cultivated at Los Baños.

**var. glauca** (Blanco) Teodoro, *PJS* 10 c (1915) Bot. 402, t. 11, Fig. 6-10; --Merr., *EPFP* 1 (1922) 224; --*Musa paradisiaca* L. var. glauca Blanco, *Fl. Filip.* (1837) 250.

LUZON: Rizal, Laguna. Cultivated at Los Baños.

**var. grandis** Teodoro, *PJS* 10 c (1915) Bot. 410, t. 14, Fig. 1-3; --Merr., *EPFP* 1 (1922) 224; LUZON: Laguna. Cultivated at Los Baños.


MINDANAO: Zamboanga, Cotabato. A peculiar form with small obovoid fruit.

**var. inarnibal** Teodoro, *PJS* 10 c (1915) Bot. 406, t. 9, Fig. 1-5; --Merr., *EPFP* 1 (1922) 225; LUZON: Laguna.

**var. kinamay** Quisumbing., *Philip. Agr. Review* 12:3 (1919) 57, t. 5, Fig. 32; t. 7, Fig. 67; t. 9, Fig. 125; t. 11, Fig. 190, 191; t. 23, Fig. 1; --Merr., *EPFP* 1 (1922) 224.

LUZON: Bulacan. Cultivated at Los Baños.

**var. lacatan** (Blanco) Teodoro, *PJS* 10 c (1915) Bot. 405, t. 11, Fig. 1-5; --Merr., *EPFP* 1 (1922) 225; --*Musa paradisiaca* L. var. lacatan Blanco, *Fl. Filip.* (1837) 240.

A widely cultivated banana and one of the most popular varieties in the Philippines. Lakatan.

**var. longa** (Blanco) Teodoro, *PJS* 10 c (1915) Bot. 407; --Merr., *EPFP* 1 (1922) 225; --*Musa paradisiaca* L. var. longa Blanco, *Fl. Filip.* (1837) 245.

Known only from Blanco’s description.

**var. padilat** Quisumbing., *Philip. Agr. Review* 12:3 (1919) 63, t. 5, Fig. 38; t. 7, Fig. 71; t. 8, Fig. 88; t. 12, Fig. 202, 203; t. 28, Fig. 1; --Merr., *EPFP* 1 (1922) 225.

BABUYAN ISLS (DALUPIRI). Cultivated at Los Baños.

**var. pamotion** Quisumbing., *Philip. Agr. Review* 12:3 (1919) 49, t. 5, Fig. 21; t. 7, Fig. 59; t. 9, Fig. 116; t. 11, Fig. 172, 173; t. 22, Fig. 1; --Merr., *EPFP* 1 (1922) 225.

MINDANAO: Surigao. Cultivated at Los Baños.

**var. pelipia** Quisumbing., *Philip. Agr. Review* 12:3 (1919) 42, t. 4, Fig. 14; t. 6, Fig. 51; t. 9, Fig. 109; t. 10, Fig. 158, 159; t. 18, Fig. 2; --Merr., *EPFP* 1 (1922) 225.

MINDANAO: Surigao. Cultivated at Los Baños.
var. principe Quisumb., *Philip. Agr. Review* 12^2^ (1919) 50, t. 5, Fig. 22; t. 7, Fig. 61; t. 9, Fig. 117; t. 11, Fig. 174, 175; t. 22, Fig. 2; --Merr., *EPFP* 1 (1922) 225. Philippines, without locality. Cultivated at Los Baños.

var. pumila (Blanco) Merr., *EPFP* 1 (1922) 225; -- *Musa cavendishii* Lamb. var. pumila (Blanco) Teodoro, *PJS* 10 c (1915) Bot. 412; -- *Musa × paradisiaca* L. var. pumila blanco, Fl. Filip. (1837) 244. Occasionally planted; perhaps a dwarfed form of bungulan.

var. putian Quisumb., *Philip. Agr. Rev.* 12 (1919) 36, t. 4, Fig. 8; --Merr., *EPFP* 1 (1922) 225. From the Visayan Islands. Cultivated at Los Baños.

var. raines Quisumb., *Phil. Agr. Review* 12^3^ (1919) 55, t. 5, Fig. 27; t. 7, Fig. 65; t. 9, Fig. 124; t. 11, Fig. 186, 187; t. 25, Fig. 1; --Merr., *EPFP* 1 (1922) 226. POLILLO. Cultivated at Los Baños.

var. sarocsoc Quisumb., *Phil. Agr. Review* 12^3^ (1919) 39, t. 4, Fig. 11; t. 6, Fig. 49; t. 9, Fig. 104; t. 10, Fig. 152, 153; t. 17, Fig. 1; --Merr., *EPFP* 1 (1922) 226. LUZON: Camarines. Cultivated at Los Baños.

var. sision Quisumb., *Phil. Agr. Review* 12^3^ (1919) 35, t. 4, Fig. 7; t. 6, Fig. 45; t. 9, Fig. 102; t. 10, Fig. 144, 145; t. 10, Fig. 144, 145; --Merr., *EPFP* 1 (1922) 226. PANAY: Capiz. Cultivated at Los Baños.

var. suaveolens (Blanco) Teodoro, *PJS* 10 c (1915) Bot. 400, t. 14, Fig. 6-10; --Merr., *EPFP* 1 (1922) 226; -- *Musa paradisiaca* L. var. suaveolens blanco, Fl. Filip. (1837) 244. One of the most popular bananas in the Philippines. Bungulan.

var. ternatensis (Blanco) Teodoro, *PJS* 10 c (1915) Bot. 404, t. 7, Fig. 1-5; --Merr., *EPFP* 1 (1922) 226; -- *Musa × paradisiaca* L. var. ternatensis blanco, Fl. Filip. (1837) 243. Occasionally cultivated. Gloria; terna té.

var. tombak (Blanco) Teodoro, *PJS* 10 c (1915) Bot. 407; --Quisumb., *Phil. Agr. Review* 12^3^ (1919) 33, t. 4, Fig. 4; t. 6, Fig. 42; t. 9, Fig. 99; t. 10, Fig. 138, 139; t. 14, Fig. 2; --Merr., *EPFP* 1 (1922) 226; -- *Musa paradisiaca* L. var. tombak blanco, Fl. Filip. (1837) 246. Cultivated here and there. Goyoran, tinumbaga, tombak.

var. tuldoc Teodoro, *PJS* 10 c (1915) Bot. 407, t. 10, Fig. 1-5; --Merr., *EPFP* 1 (1922) 226; LUZON: Rizal. Cultivated at Los Baños.

var. tuldong Teodoro, *PJS* 10 c (1915) Bot. 402, t. 11, Fig. 6-10; --Merr., *EPFP* 1 (1922) 226; LEYTE. Cultivated at Los Baños.

var. violacea (Blanco) Teodoro, *PJS* 10 c (1915) Bot. 398, t. 5, Fig. 6-10; --Merr., *EPFP* 1 (1922) 226; -- *Musa paradisiaca* L. var. violacea blanco, Fl. Filip. (1837) 245. Cultivated here and there. Morado.

Sikkim to Papuasia.
LUZON: Apayao, Bataan, Bulacan, Rizal, Laguna. Loa and medium altitude forests.

Notes:
Häkkinen & Väre (2008) regards *M. rosacea* as a good species as it produces seeds after pollination. This name antedates the well-known *M. balbisiana* Colla 1820, which they have effectively synonymized. While *M. balbisiana* is much more commonly used over *M. rosacea*, maintenance of the former name would require conservation.

*Musa textilis* Néé, Anal Cienct. Nat. 4 (1801) 123; --Teodoro, PJS 10 c (1915) Bot. 388, t. 18, Fig. 6-10; --Merr., EPFP 1 (1922) 227; --Type not found and requires neotypification.

Musa mindanensis Miq., Flora Indica Bataveæ 3 (1855) 588; --Musa sylvestris mindanensis Rumph., Herb. Amboin. (1747) 139.

Endemic to the Philippines. Extensively cultivated in the wetter parts of the Philippines. Abaca or Manila hemp. The species is variable, and sundry forms have distinctive local names.

*Musa uranoscopos* Lour., Fl. Cochinch. (1790) 645, excl. syn. Rumph., *non* Colla, 1820, which is = As explained by Loureiro’s binomial is a later homonym of *M. uranoscopos* Colla (1820), a synonym of

*Musa coccinea* Andrews, Botanist’s Repository 1 (1797) 343.


Native of SE Asia. Introduced and occasionally planted on account of its very showy red bracts.

Dubious and excluded Taxa:

*Musa cavendishii* I.M.Lamb ex Paxton *var. hawaiiensis* Teodoro, PJS 10 c (1915) Bot. 411 (1915). —Type: Teodoro, PJS 10 c (1915) Bot. pl. 16 figs 6-10 (1915) (lecto-, designated by Hakkinen & Vare, 2008).

‘…generally considered as a distinct species, but I believe it to be merely a variety of *Musa sapientum* L. Teodoro’s descriptions were based on recently introduced and cultivated specimens’ --Merrill (1922: 228).


Described from material of Philippine origin. Type unknown and diagnosis is too poor to allow identification.

*M. chapa*ra has been regarded as a synonym of *M. sapientum* L. (Schumann 1900; Champion 1967).


*Type unknown* and the protologue is too poor to allow positive identification.

*Musa sapientum* L. *var. americana* Teodoro, PJS 10 c (1915) Bot. 398, t. 7, Figs. 6-10.

Based on material of Cuban origin. *Musa sapientum* L. *var. cubensis* Teodoro, PJS 10 c (1915) Bot. 397, t. 11, Figs. 6-10. Based on material of Cuban origin.

Quisumbing, Philipp. Agr. Review 12 (1919) 1-73, t. 1-30, described and figured a number of varieties from extra-Philippine plants, cultivated at Los Baños, which has been excluded by Merrill in his ‘Enumeration’:
Based on extra-Philippine plants of unknown origin cultivated in Los Baños

Musa paradisiaca L. var. ulnaris Blanco, Fl. Filip. (1837) 246.
According to Merrill (1922) a purely imaginary variety, the description based on hearsay
data, probably inspired by one of the *tundok* varieties.