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Contributions to the Knowledge of the Systematics of *Morus* in Japan. XIV.

Morus in Cultivation. (IX)

By

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Key to the species, varieties and forms of *Morus Mizuho*,
Morus bombycis, *Morus alba* and *Morus latifolia*
found in cultivation.

1. Style long, divided into two parts of stigma at its apex. 2
Sect. I. Dolichostylae Koidz. 2
 Style none or very short, with sessile or subsessile stigma divided into two parts.
Sect. II. Macromorus Koidz. 11
2. Cystolith of epidermis is papillate and obtuse, and deeply placed in tissue. *Morus Mizuho* HOTTA 3
 Cystolith of epidermis is rather acute at apex.
 *Morus bombycis* KOIDZ. 4
3. Leaf ovate or elliptical, base deeply or rarely shallowly cordate. ...
 var. *typica* f. *normalis* HOTTA
 Leaf ovate or obato-elliptical, base truncate or shallowly cordate. ...
 f. *Kinpeiwase* HOTTA
4. Branches are slender. Young shoot rather dark-purple. 5
 Branches are of average size. Young shoot usually is greenish-blue rarely dark-purple. 7
5. Leaf 2-4 (-7) lobate, under surface has conspicuous hairs on the veins. 6
 Leaf variously lobate or not lobate, under surface has a few short hairs, apex longiacuminate or caudate. var. *Miurana* HOTTA
6. Leaf 2-4 lobate, upper surface more or less scabrous, margin dentato-serrate or irregularly dentato-serrate, petiole usually 2 cm. in length.
 var. *Koito* HOTTA
 Leaf 4-5 (-7) lobate, upper surface scabrous, margin large dentato-serrate or large irregularly dentato-serrate rarely rather obtuse.
 var. *Kadowakiana* HOTTA

7. Leaf ovate or ovato-elliptical, under surface more or less scabrous... 8
 Leaf lanceolato-oblong, under surface scabrous, apex caudate. Branches
 usually elect. var. *lanceifolia* KOIDZ
8. Bark usually brown or greyish-brown rarely reddish-brown. Apex of
 the leaf acuminate rarely acute. var. *typica* HOTTA 9
 Bark rather reddish-brown. Stems are more in number than usual.
 Apex longiacuminate or more or less caudate, margin crenato-dentate
 or dentato-serrate. var. *Sakuraiana* HOTTA
9. Upper surface of the leaf usually even. 10
 Upper surface of the leaf rugose. Young shoot rather dark-purple.
 Branches are declinate. f. *Shinanochizimi* HOTTA
10. Leaf lobate or not lobate. In the former case usually the length of
 the lobe is about half-way between the margin and midrib.
 f. *normalis* HOTTA
 Leaf pinnatisect or pinnatifid and the segments are slender.
 f. *dissecta* NAKAI
 Lobes narrow, and the segments are very anormalis.
 f. *anormalis* HOTTA
11. Upper surface of the leaf is even, and lustrous or not lustrous. Cysto-
 lith of epidermis is obtuse or rarely acute at the apex.
 M. *alba* LINN. 12
 Upper surface of the leaf is rugose and has a strong luster or more
 or less lustrous. Cystolith of epidermis is papillate and obtuse, and
 deeply placed in tissue. M. *latifolia* POIRET 14
12. Petiole and young shoots are greenish-blue rarely bluish-white. 13
 Young shoot dark-purple. Margin of the leaf irregularly dentato-serrate
 or squarrosodentate. Upon the bark are found speckles, which are at
 first and then become reddish-brown. Internode is long.
 var. *Yoroso* HOTTA
13. Petiole and young shoot greenish-blue.
 var. *typica* f. *normalis* HOTTA
 Young shoot bluish-white, petiole bluish-white or rather bluish-white.
 f. *albicaerulea* HOTTA
14. The winding is medium in bending. 15
 The winding is more or less acute than usual. Leaf rather cochleato-
 convex, 4-6 lobate, apex acuminate or longiacuminate.
 var. *Tairoso* HOTTA
15. Petiole and shoots are usually greenish-blue.
 var. *typica* f. *normalis* HOTTA 16

- Petiole and young shoots are usually dark-purple. Upper surface of the leaf has a luster. f. *Fusomaru* (KOIDZ.) HOTTA
16. Leaf usually pendulous. It has usually small lobe near the base. Areas around the pulvinus are usually blackish-brown.
 f. *rotundiloba* HOTTA
- Leaf usually not pendulous or rarely pendulous. Areas around the pulvinus are brown or reddish-brown. f. *Okumurai* HOTTA

Sect. I. *Dolichostylae* KOIDZUMI

Bull. Imp. Sericult. Exp. Stat., II, 1, p. (19233).

(1) *Morus Mizuho* HOTTA

Morus Mizuho HOTTA, Bot. Mag. (Tokyo), LI, p. 834 (1937).

Nom. Jap. *Mizuho-guwa*.

Hab. In hortis culta.

Remarks. *Shinakita* is closely related to this species.

Taiwanwase rarely is shorter than usual in length of style of female flower.

Form. *Kinpeiwase* HOTTA, f. nov.

Folium obatum vel obato-ellipticum, basi truncata vel aperte cordata, margine magno obtusa vel fere dentato-serrata rare crenato-dentata. Petiolus circ. 7cm. longus.

Nom. Jap. *Kinpeiwase*. (金瓶早生).

Hab. Japonia: In hortis culta.

Remarks. *Kinpeiwase* was selected from *Roso* seedlings in 1927 at Mt. Zoo in Kinpei village, Prov. Uzen.

(2) *Morus bombycis* KOIDZUMI

Morus bombycis KOIDZUMI, Bot. Mag. (Tokyo), XXIX, p. 313 (1915)

Nom. Jap. *Yama-guwa*: *Aburagi*,* *Aichiwase*, *Akamekumataka*, *Akameyanagida*, *Akameyamato*, *Akamekobushi*, *Akahikarimaru*, *Amoi No. I*, *Andowase*, *Anahagi-guwa*, *Asahino*, *Azwogi No. 1-3*, *Awamiyaso*, *Awohata*, *Ayadowase*, *Azumishidare*, *Bunnyemon*, *Busiuchibei*, *Chizimime*, *Daihojiu*, *Daihatsusiu*, *Doriguwa*, *Doba*, *Futodaigi*, *Fukoku-guwa*, *Fukuryutanba*, *Futoyamato*, *Fukuryu*, *Fukinishiki*, *Genshiro*, *Getsuko*, *Gonhichi*, *Gunmakuroki*, *Hamakawawase*, *Hachikokuwase*, *Handa guwa*, *Hapashi-guwa*, *Hayamaru* (*Hayamaruba***), *Hakubu*,

* The Japanese names written in Italic are of the cultivated races.

** The Japanese names written in the parenthesis are synonyms or vernacular names of the cultivated races.

Hannawa, Himesuru, Hichirimen, Hircshima, Hirano-guwa, Hinowase, Hokuko, Hotei, Hojimar, Hokushinmasha, Hokukaiichi, Hokuno No. 6, Hokuno No. 35.

var. **Miurana** HOTTA, var. nov.

Ramulus tenuis. Juventus fere atropurpurea. Folium varie lobatum vel non lobatum, apice longiacuminato vel caudato, margine fere magno dentato-serrata vel irregulariter dentato-serrata.

Nom. Jap. *Fuyoso* (芙蓉桑).

Hab. Japonia; In hortis culta.

var. **Koito** HOTTA, var. nov.

Remulus tennis. Juventus fere atropurpurea. Folium 2-4 lobatum, subtus venis supra fere pubescentibus, basi truncata vel aperte cordata; petiolo breve circ. 2 cm. longo.

Nom. Jap. *Koito* (小 絲).

Hab. Japonia. In hortis culta.

var. **Kadowakiana** HOTTA, var. nov.

Juventus fere atropurpurea. Folium 4-5 (-7) lobatum, dextra ac sinistra dissimile, supra scabrum, subtus venis supra insigniter pubescentibus, margine magno dentato-serrata vel irregulariter dentato-serrata rare fere obtuse.

Nom. Jap. *Do-guwa*.

Hab. Japonia: In hortis culta.

var. **lanceijolia** KOIDZUMI, Bull. Imp. Sericult. Exp. Stat., II, 1, p. 13 (1923).

Syn. *M. bombycis* KOIDZ. var. *ovato-oblonga* KOIDZ., Bull. Imp. Sericult. Exp. Stat., VI, 3 p. 98 (1921) nom. seminud.

M. Bombycis KOIDZ., var. *ovato-oblonga*, f. *brevicauda* KOIDZ., Bull. Imp. Sericult. Exp. ptat., VI, 3, p. 98 (1921).

Ramulus fere erectis. Folium lanceolato-oblongis, subtus scabrous, apice fere caudatis.

Nom. Jap. *Shimamura-takasuke*.

Hab. Japonia; In hortis culta.

var. **Sakuraina** HOTTA, var. nov.

Cortex castaneus. Ramulus fere multicaulis.

Apice falii longiacuminata vel fere caudata, margine crenato-dentata vel dentato-serrata.

Nom. Jap. *Fujiwase*.

Hab. Japonia: In hortis culta.

form. **Shinanochizimi** HOTTA, f. nov.

Ramulus fere declinatus. Juventus fere atropurpurea. Folium 2-3 lobatum vel non lobatum, multirugosum, margine magno dentato-serrato.

Nom. Jap. *Shinarochizimi*.

Hab. Japonia: In hortis culta.

form. ***dissecta*** NAKAI, Fl. Sylv. Korea., XIX, p. 101, t. 29 B (1932)-HOTTA, Trans. Sapporo Nat. Hist. Soc., XIV, p. 203 (1936); Bot. Mag. (Tokyo), LI, p. 838 (1937) et, LII, p. 80 (1938) et, LII, p. 254 (1938); Acta Phytotax. Geobot., VII, p. 26 (1938).

Syn. *Morus alba* var. *stylosa* fom. *dissecta* NAKAI, Veget. Isl. Quelpart, p. 39, No. 5176 (1914), nom. nud.

Nom. Jap. *Hosoba-yamaguwa*: *Kireha*.

Remarks. *Kunitatē*, *Ryukiu-yamaguwa* are closely related to this form.

Distr. Hokkaido, Shikoku, Kiusiu et Korea.

form. ***anormalis*** HOTTA, Trans. Sapporo Nat. Hist. Soc., XIV, p. 203, Pl. VI-d (1936); Acta. Phytotax. Geobot., VI, p. 111 (1937) et VII, p. 26 (1938); Bot. Mag. (Tokyo), LII, p. 36 (1938).

Nom. Jap. *Okina-yamaguwa*:

Remarks. *Sapporokireha* is closely related to this form.

Distr. Hokkaido, Honsyu, Shikoku, Kyusyu et Korea.

Sect. II. *Macromorus* KOIDZUMI

Bull Imp. Sericult. Exp. Stat., II, 1, p. 4 (1923).

(3) *Morus alba* LINN.

Morus alba LINN., Sp. Pl. ed. 1, p. 986 (1753).

Nom. Jap. *Kara-yamaguwa*: *Aburashod*, *Akatago*, *Akagijiumonzi*, *Akamejiumonzi*, *Azwamiyaso*, *Beniyamato*, *Chosen-zairaishu*, *Furansu*, *Fukirezimba*, *Fukuziro*, *Fuki-guwa*, *Fukushima-ichibei*, *Gompachi*, *Gummaoha*, *Hironiwase*, *Hikobei*, *Hikojiro*, *Horiye-guwa*, *Ichigoku-nitomi*. *Isen A, C, D*, *Izeki*.

var. ***Yoroso*** HOTTA, var. nov.

Syn. *M. alba* LINN., form. *Yoroso* HOTTA, Bot. Mag. (Tokyo), LII, p. 199 (1938).

Ramulus rubescentibrunneus longiinternodalis, cortice primum albilineato deinde rufilineato. Juventus atropurpurea. Folium fere involuto-cordatum, lateriinvolutum, supra valde viride, margine irregulariter dentato-serrata vel squarrosodentata.

Nom. Jap. *Yoroso* (揚 爐 桑).

Hab. Japonia: In hortis culta.

form. ***albicaerulea*** HOTTA, Acta Phytotax. Geobot., VI, p. 112 (1937).

Nom. Jap. *Shiroe-guwa* (*Shiraki*).

Hab. Japonia: In hortis culta.

(4) *Morus latifolia* POIRET*Morus latifolia* POIRET in LAMARCK, Encycl. Bot., IV. p. 381 (1796)

Nom. Jap. *Roso*: *Abezuru*, *A'koku*, *Akagiunawatashi*, *Ayanishiki*, *Azumanishiki*, *Azumakomare*, *Benikawakoso*, *Sina*, *Chiyonishiki*, *Chiyogurwa*, *Chyosenroso*, *Daionishiki*, *Daimyonishiki*, *Dakimekeiso*, *Daishyukaku*, *Daikajiyobenikarwa*, *Daikajiyoshirokawa*, *Eukuka* No. II-III, *Fuiri-gurwa*, *Fujibashyo*, *Giso*, *Gimmeroso*, *Gonnozyo*, *Hagonishiki*, *Habiro*, *Hikarimaru*, *Hichifuku*, *Hirashimizu*, *Hokoku*, *Honmyo*, *Ibinishiki*, *Ikguchi*, *Ikuratokubetsuso*, *Isen* E, F, G, H, I, J, K, *Iwafuku*, *Iwama-gurwa*, *Iwanose*, *Iwatebonburi*, *Iyoziwase*.

var. *Teirosso* HOTTA, var. nov.

Ramulus solito magis inflexus. Folium fere cochleato-convexum, 4-6 lobatum, apice acuminato vel longiacuminato, margine crenato-dentata vel dentato-serrata.

Nom. Jap. *Teirosso* (帝魯桑).

Hab. Japonia: In hortis culta.

form *Fusomaru* (KOIDZ.) HOTTA, comb. nov.

Juventus fere atropurpurea; petiolus supra atropurpureus. Folium supra vix nitens, intente rugosum.

Nom. Jap. *Fusomaru* (*Kawaura-gurwa*, *Unryu*).

Hab. Japonia: In hortis culta.

Remarks. *Fusomaru* was elected from *Shiromekumonryu* by R. OHATA in Niso village, Kodama district, Prov. Musashi and then the name *Fusomaru* was given to it by W. OHATA of the village.

form. *rotundiloba* HOTTA, Acta Phytotax. Geobot., IV, p. 113 (1937).Nom. Jap. *Koshuroso*.

Hab. Japonia: In hortis culta.

Remarks. *Awasagami* is closely related to this form.form. *Okumurai* HOTTA, Acta Phytotax, Geobot. VI, p. 113 (1937).

Nom. Jap. *Kubomiroso*: *Eitokuakameroso* (*Akameroso*, *Eitoku*, *Kairyoroso*), *Kaino* (貝野). *Shigekuraoha*.

Hab. Japonia: In hortis culta.

Remarks. *Keiso* and *Tenga* are closely related to this form. *Shigekuraoha* was selected from *Roso* seedlings by T. KUDO in Chifu village, Higashimaruyama district, Prov. Uzen.

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