



Title	邦産桑類の分類學的知見（八）
Author(s)	堀田, 禎吉
Citation	札幌博物学会会報, 15(2), 67-73
Issue Date	1937-12-30
Doc URL	https://hdl.handle.net/2115/64216
Type	journal article
File Information	Vol.15No.2_004.pdf



Contributions to the Knowledge of the Systematics of *Morus* in Japan VIII

Morus in Cultivation (VI)

[Continued from Bot. Mag. (Tokyo), Vol. LI, No. 607, p. 688 (1937)]

By

Teikichi HOTTA

(堀田 禎吉)

With 4 text-figures

Key to the varieties and form of *Morus* *bombycis* found in cultivation*

1. Upper surface of the leaf is more or less scabrous or slightly smooth and even. 2
Upper surface of the leaf is more or less asperate and rugose.
..... var. *Negoyatakasuke* HOTTA
2. Buds are usually brown or reddish-brown, upper surface of the leaf is green or greenish-blue and matt. 3
Buds are blackish-brown, upper surface of the leaf is deep green colour and lustrous. var. *Shimanouchi* HOTTA
3. Teeth of the leaf argute. 4
Teeth of the leaf usually undulate or crenato-dentate or irregular dentato-serrate. 5
4. Teeth of the leaf arguto-dentate, base truncate or rounded.
..... var. *Tanakaoshyu* HOTTA
Teeth of the leaf usually arguto-dentate, base shallowly cordate. ...
..... var. *Tanbakunitomi* HOTTA
5. Leaf 2-4 (-6) lobato or not lobate. 6
Leaf subpalmate, teeth of the leaf undulate or crenato-dentate.
..... var. *Shirazuru* HOTTA
6. Apex of the leaf rather long acuminate, base of the leaf truncate, densely branched. var. *Takahashi* HOTTA
Apex of the leaf abruptly acuminate or acuminate. 7

* The varieties and forms reported in previous papers are excluded in this paper.

7. Under surface of the leaf rather light greenish-blue.
 var. *typica* HOTTA
 Under surface of the leaf has more or less an oily lustre and hirsute
 on the veins, variously lobate. var. *Kurojiku* HOTTA
8. Leaf ovate or ovato-elliptical. 9
 Leaf somewhat angularly cordate upper surface scabrous, apex is linear
 caudate. f. *Zenzo* HOTTA
9. Base of the leaf shallowly or deeply cordate, apex acuminate or abruptly
 acuminate. 10
 Base of the leaf truncate, apex of the leaf subulate or long acuminate.
 f. *Mukade* HOTTA
10. Under surface of the leaf hirsute only on the principal veins. 11
 Under surface of the leaf hirsute on the veins, base truncate or shallowly
 cordate. f. *Yomeiwase* HOTTA
11. Leaf symmetrical or more or less unequal. f. *normalis* HOTTA
 Leaf unequally lobate, teeth of the leaf large and obtuse.
 f. *Tsurutawase* HOTTA

Dolichostylae KOIDZUMI

Imp. Sericult. Exp. Stat., II, 1, p. 3 (1923).

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

Syn. *Morus bombycis* KOIDZUMI, var. *Kosaka* KOIDZUMI, Bull. Imp. Sericult. Exp. Stat., VI, 3, p. 103 (1921) nom. seminud. (nov.).

Morus japonica AUDUB., var. *pubescens* YENDO, Traité sur la Cult. du Mûr. au Jap. p. 17 (1930) nom. seminud. pro parte (nov.).

Nom. Jap. *Yama-guwa*: *Mikinokobore**, *Mizukuguri*, *Mizusumawase*, *Munesuge*, *Uchidawase*, *Ukiana-guwa* (*Yaso*)**, *Wachuji*, *Waseoseda*, *Wasetakasuke* (*Jiguwa*), *Yadome* (*Yamauchikunitomi*), *Yagoro*, *Yaguwa* (*Kameya-guwa*) *Yakuno*, *Yakura*, *Yamada*, *Yamagatakunitomi*, *Yamatokobore*, *Yamatonishiki*, *Yamatowase*, *Yaye-guwa*, *Yohei*, *Yonezawawase*, *Yoshinouchi*, *Yoshitoku* (*Yohei*), *Zarukawa*.

var. ***Negoyatakasuke*** HOTT, comb. nov.

Syn. *Morus alba* LINN., var. *argutidens* KOIDZUMI. Bull. Imp. Sericult. Exp. Stat., II, 1, p. 30. (1923). pro parte.

* 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.

Folium ovatum vel ovato-oblongum, supra fere asperatum rugosumque, margine fere crenato-dentata, apice incurvo, basi aperte cordata vel truncata.

Nom. Jap. *Negoyatakasuke* (*Awokitakasuke*, *Takasuke*, *Jiguwa*).

Hab. Japonia: in hortis culta.

Remarks. Leaf is ovate or ovate-oblong, upper surface of the leaf is more or less asperate and rugose, margin is rather crenato-dentate, the apices of the teeth are incurved, base of the leaf is shallowly cordate or truncate. S. MATSUI transplanted from the mountains in Kozuke in 1830 (the era of Tempo) and first it was called Joshu-guwa and in 1887 was cultivated at the Nagaoka Agricultural School and named *Nagoyatakasuke*.

var. ***Shimanouchi*** HOTTA, var. nov.

Syn. *Morus bombycis* KOIDZUMI, var. *argutidens* KOIDZUMI, Bull. Imp. Sericult. Exp. Stat., II, 1, p. 30 (1923). pro parte.

Gemmae fuliginosae. Folium ovatum vel ovato-oblongum supra valde viride nitidum, apice longiacuminato vel acuminato; margine dentato-serrata, apice incurvo.

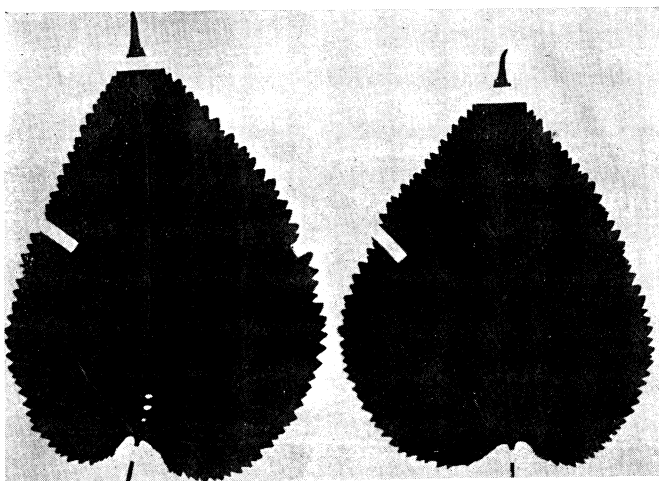


Fig. 1. *M. bombycis* KOIDZ., var. *Shimanouchi* HOTTA

Nom. Jap. *Shimanouchi-guwa* (*Banto*, *Kuroshodo*, *Sakamoto*, *Taiyo*, *Tanikaze*, *Tsuruta*).

Hab. Japonia: in hortis culta.

Remarks. Buds are blackish-brown. Leaf is ovate or ovate-oblong, and was usually incurved in one side, apex of the leaf is long acuminate or acuminate, upper surface of the leaf is deep green colour and lustrous, margin dentato-serrate.

The Place of origin of *Shimanouchi-guw* was Tamura district, Prov. Iwashiro. As to the morphological characters the leaf is rather similar to that of *Akagi* and *Tsuruta*.

var. ***Tanakaoshyu*** HOTTA. var. nov.

Folium ovato-oblongum vel ovatum, apice longicaudato vel longiacuminato; margine fere argutidentata, apice brevistaristulato, basi plerumque truncata vel rotundata.

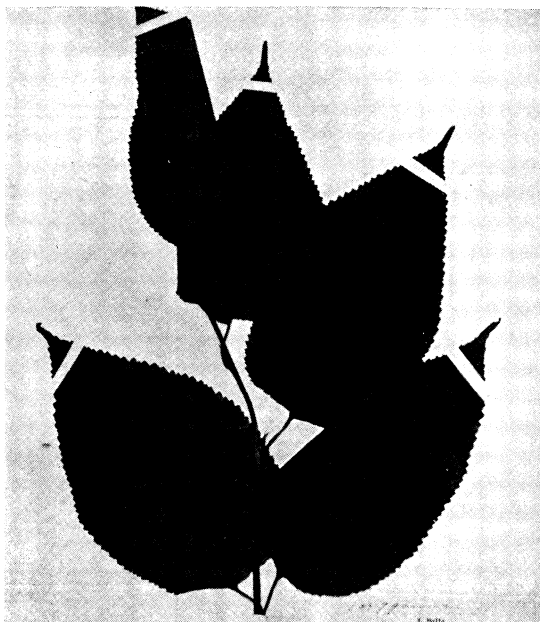


Fig. 2. *M. bombycis* KOIDZ., var. *Tanakaoshyu* HOTTA

Nom. Jap. *Tanakaoshu*.

Hab. Japonia: in hortis culta.

Remarks. Leaf is ovate-oblong or ovate, apex is long caudate or long acuminate, the apices of the teeth are shortly apiculate, margin is rather arguto-dentate, base is usually truncate or rounded.

var. ***Tanbakunitomi*** HOTTA. var. nov.

Folium ovatum vel ovato-oblongum, margine plerumque argutidentata, basi aperte cordata.

Nom. Jap. *Tanbakunitomi*.

Hab. Japonia: in hortis culta.

Remarks. Leaf is ovate or ovate-oblong, margin is arguto-dentate, base

of the leaf is shallowly cordate.

var. *Shirazuru* HOTTA, var. nov.

Folium subpalmatum, apice acuminato vel fere longiacuminato, margine repanda vel crenato-pentata, petiolo 3-4 cm. longo.

Nom. Jap. *Shirazuru*.

Hab. Japonia: in hortis culta.

Remarks. Leaf is various lobate, margin is undulate or crenato-dentate, apex acuminate or slightly long acuminate, petiole is 3-4 cm. in length.

var. *Takahashi* HOTT, var. nov.

Ramuli fere multicaules tenues. Folium fere horizontale, apice fere longiacuminato, basi truncata.

Nom. Jap. *Takahashi*.

Hab. Japonia: in hortis culta.

Remarks. Densely branched. Leaf is more or less horizontal, apex rather long acuminate, base is truncate.

This variety was originated from Takahashi village, Nishiyamanashi district, Prov. Kai.

var. *Kurojiku* HOTTA, var. nov.

Folium varie lobatum, subtus fere inunctum, apice longiacuminato vel acuminate; margine fere argutiserrata, vel dentato-serrata, apice leviter incurvo.

Nom. Jap. *Kurojiku*.

Hab. Japonia: in hortis culta.

Remarks. Leaf variously lobate, the under surface hirsute on the veins, and

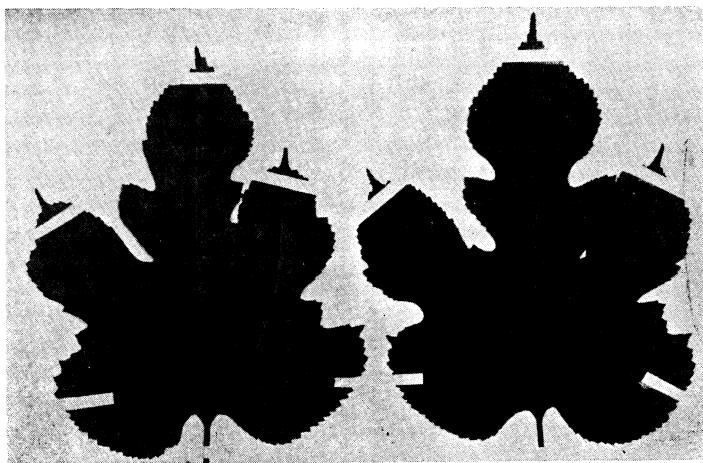


Fig. 3. *M. bombycis* KOIDZ., var. *Kurojiku* HOTTA

has a more or less oily luster. Margin is more or less argutiserrate or dentato-serrate, and the apices of the teeth are slightly incurved.

The place of the origin of *Kurojiku* was Prov. Kai. It was introduced by M. HARADA of Tamakawa village, Suwa district from Prov. Shinano.

form. **Zenzo** HOTTA, var. nov.

Folium angulariter cordatum supra scabrum, subtus fere laeve, apice longiacuminato, basi profunde cordata.

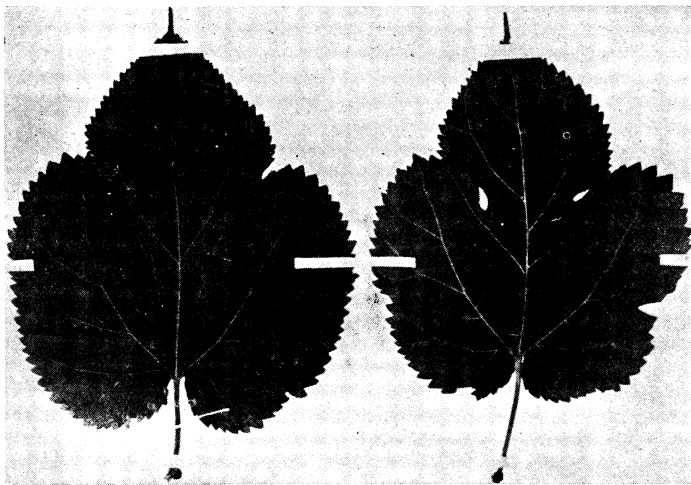


Fig. 4. *M. bombycis* KOIDZ., f. *Zenzo* HOTTA

Nom. Jap. *Zenzo* (*Zenzooha*).

Hab. Japonia: in hortis cult.

Remarks. Leaf is somewhat angularly cordate. Upper surface of the leaf is scabrous, under surface more or less smooth, apex rather linear caudate, and the base deeply cordate.

Zenzo was originally found out in 1848-52 (the era of Kayei) by Z. NISHIKAWA in Mitake village, Amata district, Prov. Tanba.

form. **Mukade** HOTTA, f. nov.

Folium 2-3 (-4) lobatum, apice subulato vel longiacuminato, basi truncata.

Nom. Jap. *Mukade-gurwa*.

Hab. Japonia: in hortis culta.

Remarks. Leaf is 2-3 (-4) lobate, apex is subulate long acuminate, and base truncate.

form. **Yomeiwase** HOTTA, f. nov.

Ramulus rufus; gemmae nigrirufae. Folium supra fere laeve, subtus fere

pubescens, basi truncata vel aperte cordata.

Nom. Jap. *Yomeiwase*.

Hab. Japonia: in hortis culta.

Remarks. Branch is reddish-brown, buds are blackish red-brown. Upper surface of the leaf is rather smooth, under surface is hirsute on the veins, and base of the leaf is truncate or shallowly cordate.

form. *Tsurutawase* HOTTA, var. nov.

Folium subcordatum, utrinque 2-4 (-5) lobatum, inaequaliter lobatum, serratis irregulariter magniobtusis.

Nom. Jap. *Tsurudawase*.

Hab. Japonia: in hortis culta.

Remarks. Leaf subcordate, unequally lobate, usually is 2-4 (5) lobate, teeth of the leaf is irregular large and obtuse.

Botanical Institute, Faculty of Agriculture,
Hokkaido Imperial University,
Sapporo, Japan.

摘 要

邦産桑屬の分類學的知見(八)

M. bombycis KOIDZ. var. *Negoyatakasuke*, var. *Shimanouchi*, var. *Tanakaoshyu*, var. *Tanbakunitomi*, var. *Shirazuru*, var. *Takahashi*, var. *Kurojiku* の七新變種、f. *Zenzo*, f. *Mukade*, f. *Yomeiwase*, f. *Tsurutawase* の四新品種を創定した。

尙 *M. bombycis* KOIDZ. に包含すべき栽培種二十件種を確認し、更に是等變種及品種に屬する栽培種の起原も可及的報告した。