

## Type Collection in the Herbarium of National Museum of Nature and Science (TNS). Salicales, Fagales, Urticales, Proteales, Santalales, Polygonales and Chenopodiales

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**Abstract** Type specimens of seven angiosperm orders deposited in the herbarium of National Museum of Nature and Science (TNS) were explored and reexamined. In total, 85 sheets are confirmed as type collections for 56 taxa including 24 holotypes. The 85 sheets consist of seven Salicaceae, five Betulaceae, seven Fagaceae, two Ulmaceae, three Moraceae, three Urticaceae, 37 Polygonaceae, 16 Caryophyllaceae, two Amaranthaceae and one each of Proteaceae, Balanophoraceae and Chenopodiaceae.

**Key words:** TNS-herbarium, type collection.

### SALICACEAE (F. 7)

#### **Salix** L.

##### **Salix kamikotica** Kimura

in *Sci. Rep. Tohoku Imp. Univ., Ser. 4, Biol.* 6: 194 (1931).

Jap. Name. Kinuyanagi.

Japan, Honshu, Prov. Shinano, Kamikochi, 1930-5-16, A. Kimura 782 [TNS-758703, 785704 = Isosyntypes].

##### **Salix kassanogluensis** Kotschy ex Anderss.

in *Prodr. (DC.)* 16(2): 212 (1868).

Turkey, montibus Kassan Oghlu, 1859-5-13, T. Kotschy 64 [TNS-VS-239616 = Isotype].

##### **Salix nakamurae** Koidz.

in *Bot. Mag. (Tokyo)* 27: 96 (1913).

Jap. Name. Renge-iwayanagi.

Japan, Prov. Shinano, Dailengezan, 1908-8-12, M. Nakamura s.n. [TNS-VS-380883 = Isotype].

##### **Salix paludicola** Koidz.

in *Bot. Mag. (Tokyo)* 33: 219 (1919).

Jap. Name. Miyama-yachiyanagi.

Japan, Yeso, Prov. Ishikari, Mt. Chiubetudake, 1917-7-31, H. Koidzumi 39 (Herb. H. Koidzumi 66685) [TNS-VS-416390 = Isotype].

##### **Salix sichotensis** Kharkevich et I.B.Vyshin.

in *Bot. Zhurn. (Moscow & Leningrad)* 70: 1120 (1985).

Russia, Khabarovskiy territory, North Seikhot-Alin, Nanayskiy district, Anyouy river, mountain Tardokyyany, 1983-7-22, S. Kharkevich, T. Buch & I. Vyshin "Plantae Vasculares Orientis Extremi Rossici (VLA) Flora Exsiccata" No. 345 [TNS-VS-685590 = Isotype].

##### **Salix tagawana** Koidz.

in *Acta Phytotax. Geobot.* 9: 75 (1940).

Taiwan, Prov. Karenkô, Tamazato-gun, between Sasarabi and Miyasan, 1940-4-8, M. Tagawa 3646 [TNS-VS-155150 = Isosyntype].

Taiwan, Prov. Karenkô, Tamazato-gun, between Miyasan and Daisuikutsu, 1940-4-9, M. Tagawa 3647 [TNS-VS-155148 = Isosyntype].

### BETULACEAE (F. 8)

#### **Alnus** Mill.

##### **Alnus hakkodensis** Hayashi

in *Bull. Gov. For. Exp. Stat.* 57: 153 (1952).

Jap. Name. Sarukura-hannoki.

Japan, Hondo, Prov. Mutsu, Mt. Hakkoda, Sarukura, 1951-8-7, Y. Hayashi s.n. [TNS-VS-

255581 = Holotype].

Note. According to the original descriptions, Yasaka Hayashi (1911–1991)'s holotypes are deposited in the herbarium of Government Forest Experiment Station, and thus previous publications of the TNS type collection catalogues treated his types as isotypes. But the collections in TNS match perfectly the photographs of the specimens cited in their original descriptions. Therefore, it is highly likely that most of his holotypes had been transferred to TNS in the past.

### **Betula L.**

- Betula costata** Trautv. var. **cuneifolia** Kitag.  
in *J. Jap. Bot.* **44**: 183 (1969).  
Jap. Name. Nagaba-chosen-minebari.  
China, Manshuria, Prov. Hei-lung-ching, Mt. Hsiao-hsing-an-ling, ?-?-?, M. Takahashi s.n. [TNS-VS-931994 = Holotype].

### **Carpinus L.**

- Carpinus erosa** Blume var. **microcarpa** Hayashi  
in *Bull. Gov. For. Exp. Stat.* **57**: 154 (1952).  
Jap. Name. Hime-sawashiba.  
Japan, Ezo, Prov. Hiyaama, Mt. Gamushi, 1952-8-8, Y. Hayashi s.n. [TNS-VS-255878 = Holotype].
- Carpinus erosa** Blume var. **velutina** Hayashi  
in *Bull. Gov. For. Exp. Stat.* **77**: 26 (1955).  
Jap. Name. Birodo-sawashiba.  
Japan, Hondo, Prov. Rikuchiu, Shimohei-gun, Yamagata[-mura] in Kuji, 1952-8-15, Y. Hayashi s.n. [TNS-VS-255882 = Holotype].
- Carpinus tschonoskii** Maxim. f. **pendula** Hayashi  
in *Bull. Gov. For. Exp. Stat.* **125**: 72 (1960).  
Jap. Name. Shidare-inushide.  
Japan, Hondo, Prov. Musashi, Kokubunji, 1958-5-10, Y. Hayashi s.n. [TNS-VS-255855 = Holotype].

## FAGACEAE (F. 9)

### **Cyclobalanopsis Oerst.**

- Cyclobalanopsis acuta** (Thunb.) Oerst. var. **megaphylla** Hayashi  
in *J. Jap. Bot.* **29**: 149 (1954).  
Jap. Name. O-akagashi.  
Japan, Hondo, Prov. Musashi, Meguro[-ku], Ohshima Shrine, 1953-6-20, Y. Hayashi s.n. [TNS-VS-255872 = Holotype].

### **Fagus L.**

- Fagus japonica** Maxim. var. **pleiosperma** Hayashi  
in *Bull. Gov. For. Exp. Stat.* **107**: 27 (1958).  
Jap. Name. Hako-inubuna.  
Japan, Hondo, Prov. Sagami, Mt. Tanzawa, 1956-7-15, Y. Hayashi s.n. [TNS-VS-254528 = Holotype].

### **Pasania Oerst.**

- Pasania glabra** (Thunb.) Oerst. f. **microphylla** Hayashi  
in *J. Geobot.* **11**: 117 (1963).  
Jap. Name. Koba-no-shiribuka-gashi.  
Japan, Hondo, Prov. Suo, Iwakuni, Mt. Shiro, 1962-11-14, Y. Hayashi s.n. [TNS-VS-255875 = Holotype].

### **Quercus L.**

- Quercus grosseserrata** Blume var. **macrocarpa** Nakai  
in *Bull. Natl. Sci. Mus., Tokyo* **27**: 29 (1949).  
Jap. Name. Nagaba-mizunara.  
Japan, Hondo, Prov. Uzen, tractus Nisi-Tagawa, oppidi Nedzugaseki, Wasada, 1948-10-21, T. Nakai s.n. [TNS-VS-79743, 79750 = Holotypes in 2 sheets].
- Quercus mongolica** Fisch. ex Ledeb. var. **grosseserrata** (Blume) Rehder et E.H. Wilson f. **laciniata** Hayashi  
in *Bull. Gov. For. Exp. Stat.* **107**: 27 (1958).  
Jap. Name. Hagoromo-mizunara.  
Japan, Hondo, Prov. Uzen, Nishimurayama-gun, Nishikawa-cho, 1956-8-31, T. Mizuta s.n.

[TNS-VS-256395 = Holotype].

**Quercus takaoyamensis** Makino

in *J. Jap. Bot.* **2**: 13 (1920).

Jap. Name. O-tsukubanegashi.

Japan, Prov. Musashi, Mt. Takao, 1920-6-30,  
K. Hisauchi s.n. [TNS-VS-35910 = Isotype].

ULMACEAE (F. 11)

**Celtis** L.

**Celtis hashimotoi** Koidz.

in *Acta Phytotax. Geobot.* **1**: 19 (1932).

Jap. Name. Kansai-enoki.

Japan, Honto, Prov. Ohmi, Higashi-asai-gun,  
Higashi-Kusano-mura, Kami-itanami, Yasaka-  
jinja, 1930-10-26, C. Hashimoto [TNS-VS-  
51209 = Isotype].

**Ulmus** L.

**Ulmus davidiana** Planch. f. **glabra** Kitag.

in *J. Jap. Bot.* **47**: 354 (1972).

Jap. Name. Kenashi-tonire.

China, Shan-tung, Chi-nan, Mt. Ch'ien-foshan,  
1940-4-28, T. Shinagawa 6 [TNS-VS-  
76875 = Holotype].

MORACEAE (F. 13)

**Ficus** L.

**Ficus erecta** Thunb. f. **rhodovenia** Nakai

in *Jap. J. Bot.* **25**: 131 (1950).

Jap. Name. Akajiku-inubiwa.

Japan, Prov. Ohsumi, Izashiki, 1948-4-16, T.  
Nakai & N. Maruyama s.n. [TNS-VS-81822 =  
Holotype].

**Morus** L.

**Morus amamiana** Nakai

in *J. Jap. Bot.* **25**: 131 (1950).

Jap. Name. Amami-guwa.

Japan, Prov. Ohsumi, Sata, Izashiki (cult.),  
transplanted from Amami-Oshima, 1948-4-  
16, T. Nakai & N. Maruyama s.n. [TNS-VS-  
81824, 81825 = Syntypes].

URTICACEAE (F. 14)

**Boehmeria** Jacq.

**Boehmeria maximowiczii** Nakai et Satake

in *J. Fac. Sci. Univ. Tokyo, Sect. 3, Bot.* **4**: 522  
(1936).

Jap. Name. O-meyabumao.

Japan, Prov. Nagato, prope Hagi, Kauchi,  
1926-10-4, J. Nikai 2970 [TNS-VS-48919 =  
Isotype].

**Laportea** Gaudich.

**Laportea saipanensis** Kaneh.

in *Bot. Mag. (Tokyo)* **45**: 277 (1931).

Mariana Islands, Saipan, 1930-7-?, R. Kanehira  
973 [TNS-VS-9525 = Isosyntype].

**Pilea** Lindl.

**Pilea amamiana** Ohwi

in *Bull. Natl. Sci. Mus., Tokyo* n.s. **1**: 6 (1954).

Jap. Name. Yuwan-mizu.

Japan, Ryukyu, Ins. Amamioshima, Mt. Yuwan-  
dake, 1951-5-20, T. Amano 6465 [TNS-VS-  
87299 = Holotype].

PROTEACEAE (F. 15)

**Helicia** Lour.

**Helicia henryi** Diels

in *Repert. Spec. Nov. Regni Veg.* **13**: 528 (1915).

China, Yunnan, Szemao, ?-?-?, A. Henry  
11910A [TNS-VS-193248 = Isotype].

BALANOPHORACEAE (F. 23)

**Balanophora** J.R. Forst. et G. Forst.

**Balanophora kiusiana** Ohwi

in *Fl. Jap. Rev. ed. (Ohwi) [Japanese ed.]*  
1437 (1965).

Jap. Name. Kyushu-tsuchitorimochi.

Japan, Kyushu, Prov. Bungo, Mt. Yuhudake,  
1964-8-?, M. Endo s.n. [TNS-VS-216475 =  
Holotype].

## CHENOPODIACEAE (F. 36)

**Atriplex** L.**Atriplex franktonii** Tascher.

in *Can. J. Bot.* **50**: 1586 (1972).

Canada, Nova Scotia, Pictou county, north side of Pictou Harbour, 1968-8-29, P. M. Taschereau 272 [TNS-VS-442246 = Isosyntype].

## POLYGONACEAE (F. 25)

**Bistorta** (L.) Adans.**Bistorta albiflora** Miyam. et H. Ohba

in *Bull. Natl. Sci. Mus., Tokyo, Ser. B* **28**: 141 (2002).

China, Sichuan, Daocheng, around Gongga Shan, 1997-8-6, S. Wu, H. Ikeda, S. Akiyama, F. Miyamoto & W. Chen 459 [TNS-VS-717846 = Isotype].

**Bistorta attenuatifolia** Miyam. et H. Ohba

in *Bull. Natl. Sci. Mus., Tokyo, Ser. B* **30**: 109 (2004).

China, Xizang (Tibet), Baxoi Xian, Baxoi Xian, Rawu-Baxoi, 2000-8-4, S. Akiyama, M. Wakabayasi, F. Miyamoto, H. Ikeda, S.K. Wu, X. Chen, L. Gao, J. Yue & Y. Zhen 105176 [TNS-VS-730258 = Isotype]. China, Xizang (Tibet), Zogang Xian, Langla Shan-Nianla Shan, 2000-7-19, S. Akiyama, M. Wakabayasi, F. Miyamoto, H. Ikeda, S.K. Wu, X. Chen, L. Gao, J. Yue & Y. Zhen 105057 [TNS-VS-730259 = Paratype].

**Bistorta longispicata** Yonek. et H. Ohashi

in *J. Jap. Bot.* **76**: 346 (2001).

China, Tibet, Tsa Tang, between Xigaze and Lhasa, W. of Qüxü, 1914-8-1, E. Kawaguchi 62 [TNS-VS-104058 = Paratype]. China, Tibet, vicinity of Lhasa, Elba Temple, 1914-8-23, E. Kawaguchi 138 [TNS-VS-104053 = Paratype]; E. Kawaguchi 146 [TNS-VS-104049 = Paratype]; E. Kawaguchi 148 [TNS-VS-104051 = Paratype]; E. Kawaguchi 152 [TNS-VS-104070 = Paratype]; E. Kawaguchi 156 [TNS-VS-104054 = Paratype]. China, Tibet, N. of Lhasa, Mt. Penpo Kola, 1914-9-10, E. Kawaguchi 267 [TNS-VS-104076 = Paratype]. China, Tibet, 14–15 miles NE. of

Lhasa, Mt. Chomo Sese, 1914-9-6, E. Kawaguchi 244 [TNS-VS-104071 = Paratype]; E. Kawaguchi 245 [TNS-VS-104074 = Paratype]; E. Kawaguchi s.n. [TNS-VS-104059 = Paratype]. China, Tibet, 14–15 miles S. of Lhasa, De la, 1914-9-16, E. Kawaguchi 321 [TNS-VS-104062 = Paratype]; E. Kawaguchi s.n. [TNS-VS-104056 = Paratype]; E. Kawaguchi 340 [TNS-VS-104057 = Paratype].

**Bistorta pacifica** (Petrov ex Kom.) Kom. f. **velutina** Kitag.

in *J. Jap. Bot.* **47**: 354 (1972).

China, Manshuria, Yen-chi, Yanji, 1939-7-20, K. Yoshimizu s.n. [TNS-VS-77557 = Holotype]. China, Manshuria, Prov. Chi-lin, circa T'u-mén-ling, 1932-6-1, K. Yamatsuta 1840 [TNS-VS-75704 = Paratype]. Korea, Prov. Kan-hoku, Yu-hei, 1930-6-19, J. Ohwi 1464 [TNS-VS-219602 = Paratype].

**Bistorta tubistipulis** Miyam. et H. Ohba

in *Bull. Natl. Sci. Mus., Tokyo, Ser. B* **28**: 143 (2002).

China, Sichuan, Bowa Shan (near Daocheng), 1996-8-16, S. Wu, H. Ikeda, M. Wakabayashi, F. Miyamoto, Y. Yang & T. Kikuchi 1499 [TNS-VS-717845 = Isotype].

**Persicaria** (L.) Mill.**Persicaria × musashinoensis** Hiyama

in *J. Jap. Bot.* **32**: 190 (1957).

Jap. Name. Inu-hanatade.

Japan, Hondo, Prov. Musashi, Tokyo [Pref.], Nerima-ku, Egoda, 1956-10-4, K. Hiyama s.n. [TNS-VS-133475 = Holotype].

**Persicaria ramosa** Nakai

in *Bot. Mag. (Tokyo)* **44**: 518 (1930).

Jap. Name. Hai-yanonegusa.

Japan, Prov. Musashi, Itsuka-ichi, Kariyose, 1929-8-24, K. Hisauchi s.n. [TNS-VS-35907 and 35908 = Isoparatypes].

**Persicaria satsumensis** Nakai

in *J. Jap. Bot.* **25**: 129 (1950).

Jap. Name. Satsuma-tade.

Japan, Kjusju, Prov. Satsuma, Ibusuki, 1948-4-

15, T. Nakai & N. Maruyama s.n. [TNS-VS-81806 = Possible type].

Note. The collection date is different from the original description (1948-4-14 in the description).

**Persicaria sterilis** Nakai f. **leucantha** Nakai  
in *J. Jap. Bot.* **25**: 130 (1950).

Jap. Name. Shirobana-hime-sakuratade.

Japan, Hondo, Prov. Bingo, Kurashiki[-shi], 1943-10-26, Y. Ikegami 3021 [TNS-VS-79749 = Holotype].

### **Polygonum L.**

**Polygonum auriculatum** Makino

in *Bot. Mag. (Tokyo)* **17**: 117 (1903).

Jap. Name. Hosoba-no-unagitsukami.

Japan, Prov. Tosa, Asakura[-mura], 1892-10-15, T. Makino s.n. [TNS-VS-5128 = Isosyn-type].

**Polygonum brevichreatum** Makino

in *Bot. Mag. (Tokyo)* **17**: 117 (1903).

Jap. Name. Nagaba-no-yanonegusa.

Japan, Prov. Tosa, Hage-mura, 1892-10-?, T. Makino s.n. [TNS-VS-5144 = Possible syn-type].

Note. The type locality is "Idzuma, Tosa" in the original description.

**Polygonum insulare** M.I. Maximova

in *Novosti Sist. Vyssh. Rast.* **15**: 142 (1979).

Russia, Jacutia, Insulae Ursinae maris Sibirici Orientalis, insula Krestovskij, 1971-7-17, M. Maximova [TNS-VS-442103 = Isotype].

**Polygonum paludicola** Makino var. **nikaii**  
Makino

in *Bot. Mag. (Tokyo)* **28**: 114 (1914).

Jap. Name. Saikoku-nukabo.

Japan, Prov. Bitchū, Kibi-gōri, Makane-mura, Itakura, 1902-10-26, J. Nikai 939 [TNS-VS-48757 = Isolectotype].

**Polygonum pteranthum** Kitag.

in *J. Geobot.* **20**: 32 (1972).

Jap. Name. Tsukushi-michiyanagi.

Japan, Kyusyu, Prov. Ohsumi, Isl. Tanegashima, Annō, 1954-12-21, S. Ouchiyama 69 [TNS-VS-130070 = Holotype].

**Polygonum ramuliflorum** Kitag.

in *J. Jap. Bot.* **39**: 357 (1964).

Jap. Name. Nukabo-michiyanagi.

Japan, Prov. Oomi, Gamō[-gun], Kamakake-mura, 1951-8-24, C. Hashimoto 14895 [TNS-VS-103026 = Holotype].

**Polygonum ryukyuense** Kitag.

in *J. Geobot.* **20**: 34 (1972).

Jap. Name. Okinawa-michiyanagi.

Japan, Ryukyu, Prov. Okinawa, Isl. Okinawa, prope Nawa [=Naha-shi], Mt. Ohno-yama, 1967-9-2, E. Takamine 2804 [TNS-VS-215336 = Holotype].

**Polygonum yamatutae** Kitag.

in *J. Jap. Bot.* **39**: 358 (1964).

Jap. Name. Nagaba-michiyanagi.

China, Manshuria, Prov. Fêng-t'ien, circa Peiling, 1924-7-10, K. Yamatuta 1832 [TNS-VS-75752 = Holotype].

### **Reynoutria Houtt.**

**Reynoutria sachalinensis** (F. Schmidt) Nakai  
var. **brachyphylla** Honda

in *Bot. Mag. (Tokyo)* **50**: 389 (1936).

Jap. Name. Haruna-itadori.

Japan, Honshū, Prov. Kōzuke, monte Haruna, 1935-6-12, T. Sakai s.n. [TNS-VS-51185 = Isotype].

### **Rumex L.**

**Rumex daiwoo** Makino

in *Bot. Mag. (Tokyo)* **15**: 124 (1901).

Jap. Name. Madaio.

Japan, Prov. Tosa, Sakawa-mura, Nanokawa, 1893-6-?, T. Makino s.n. [TNS-VS-5295 = Syntype]. Japan, Prov. Tosa, Nanokawa, 1888-5-17, K. Watanabe s.n. [TNS-VS-54971 = Possible syntype].

Note. The collection date of TNS-VS-54971 is different from the original description (1889-5-18).

**Rumex ursinus** M.I. Maximova

in *Novosti Sist. Vyssh. Rast.* **15**: 113 (1979).

Russia, Insulae Ursinae maris Sibirici Orientalis, insula Leontjevii, 1971-8-24, M. Maxi-

movia s.n. [TNS-VS-442102 = Isotype].

#### CARYOPHYLLACEAE (F. 34)

##### **Brachystemma** D. Don

##### **Brachystemma ovatifolium** M. Mizus.

in *Acta Phytotax. Geobot.* **16**: 42 (1955).

Nepal, Gurnung to Sarti, 1953-7-26, S. Nakao s.n. [TNS-VS-263814 = Isotype].

##### **Cerastium** L.

##### **Cerastium calcicola** Ohwi

in *Repert. Spec. Nov. Regni Veg.* **36**: 46 (1934).

Taiwan, Karenko, prope Kiraikai, Nokogoe, 1933-6-?, J. Ohwi 2955 [TNS-VS-222195b = Isotype].

##### **Dianthus** L.

##### **Dianthus japonicus** Thunb. f. **albiflorus** Konta et S. Matsumoto

in *Bull. Natl. Sci. Mus., Tokyo, Ser. B* **31**: 23 (2005).

Jap. Name. Shirobana-hama-nadeshiko.

Japan, Honshu, Shizuoka [Pref.], Shimoda City, Suzaki Peninsula, Suzaki, 2004-6-24, F. Konta, S. Matsumoto and K. Hashiba 22847-a [TNS-VS-744461 = Holotype]; 22847-b [TNS-VS-744460 = Isotype]; 22847-c [TNS-VS-744459 = Isotype].

##### **Melandrium** Rohl.

##### **Melandrium nubigenum** Ohwi

in *Repert. Spec. Nov. Regni Veg.* **36**: 48 (1934).

Taiwan, Mt. Nankotaisan, 1933-7-20, J. Ohwi 4159 [TNS-VS-222205a, 222205b = Isotypes].

##### **Pseudostellaria** Pax

##### **Pseudostellaria musashiensis** Hiyama

in *J. Jap. Bot.* **26**: 287 (1951).

Jap. Name. Musashi-wachigaiso.

Japan, Hondo, Prov. Musashi, Kiyose[-mura], 1950-4-11, K. Hiyama s.n. [TNS-VS-110129 = Syntype]; same locality, 1950-5-6, F. Tuda [TNS-VS-90299 = Syntype].

##### **Silene** L.

##### **Silene andersonii** Clokey

in *Bull. S. Calif. Acad. Sci.* **38**: 2 (1939).

U.S.A., Nevada, Clark Co., Charleston Mts., Level Canyon, 1937-8-9, I. W. Clokey 7514 [TNS-VS-241109 = Isotype].

##### **Silene tokachiensis** Kadota

in *Mem. Natl. Sci. Mus., Tokyo* **27**: 64 (1994).

Jap. Name. Tokachi-biranjji.

Japan, Tokachi-shicho, Hokkaido, Kato-gun, Kamisihoro-cho, the Ishikari Range, Mt. Nipesotsuyama, 1985-8-4, Y. Kadota & K. Midorikawa 12730 [TNS-VS-9018827 = Holotype; TNS-VS-9018829 = Isotype].

##### **Stellaria** L.

##### **Stellaria iinumae** Ohwi

in *Acta Phytotax. Geobot.* **6**: 145 (1937).

Jap. Name. Ao-hakobe.

Japan, Hondo, Prov. Yamashiro, Kibune, 1937-6-9, J. Ohwi 9204 [TNS-VS-222398a, 222398b = Isotypes]; same locality, 1937-6-9, J. Ohwi [TNS-VS-57217 = Isotype]. Japan, Prov. Tosa, Tosayama-mura, Kashiyama-toge, 1937-6-14, T. Yoshinaga 9196 [TNS-VS-222397 = Isoparatype].

#### AMARANTHACEAE (F. 37)

##### **Achyranthes** L.

##### **Achyranthes fauriei** H. Lév. et Vaniot f. **rotundifolia** Ohwi

in *Fl. Jap. Rev. ed. (Ohwi) [Japanese ed.]* **562**, 1437 (1965).

Jap. Name. Maruba-inokozuchi.

Japan, Honshu, Prov. Iwashiro, Hobara-machi, 1963-10-1, T. Oishi [TNS-VS-163350 = Holotype; TNS-VS-235330 = Isotype].

Following specimens have not yet found in the herbarium, though they are cited as holotype and syntypes in the original description.

##### **Bistorta suffulta** (Maxim.) H. Gross f. **pubescens** Hiyama

in *J. Jap. Bot.* **17**: 318 (1941).

Jap. Name. Ke-kurin-yukifude.

Japan, Prov. Kai, Mt. Mitsu-toge, 1934-6-10,  
K. Hiyama s.n. [TNS-VS-? = Syntype]. Japan,  
Prov. Musashi, Mt. Kuromori, 1935-7-15, K.  
Hiyama s.n. [TNS-VS-? = Syntype].

**Tovara filiformis** (Thunb.) Nakai f. **albiflora**  
Hiyama

in *J. Jap. Bot.* **17**: 319 (1941).

Jap. Name. Gin-mizuhiki.

Japan, Prov. Musashi, Agano-mura,  
1928-9-25, K. Hiyama s.n. [TNS-VS-? =  
Holotype].