

Nepenthes crosses made at California State University, Fullerton

by

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Statements as to seed set are subjective, but seem to reflect the fact that crosses made with *N. X dyeriana* result in low seed set. The set rate with *N. X superba-mixta* was low to good, but until this year, only a few crosses have been made using it. note: female (plant on which seed is gathered) is listed first.

- **N. x chelsonii* X *N. x coccinea* on 25 Oct. 1977 — excellent set
- **N. x chelsonii* X *N. x dyeriana* on 21 Aug. 1978 — poor
- **N. x chelsonii* X *N. rafflesiana*-Singapore on 15 Aug. 1978 — ex. set (= *N. x edinensis* reverse)
- N. x chelsonii* X *N. x superba-mixta* in summer, 1976 — poor
- **N. x chelsonii* X *N. x williamsii* on 31 Jul. 1978 — excellent set
- **N. gracilis* X *N. x hookeriana* (cult. type) on 27 Oct. 1978 — ex. set
- N. x intermedia* X *N. x dyeriana* on 08 Aug. 1978 — poor set
- **N. x intermedia* X *N. rafflesiana*-Singapore on 15 Aug. 1978 — ex. set
- N. x morganiana* X *N. x dyeriana* on 09 Aug. 1978 — poor set
- **N. x morganiana* X *N. x williamsii* on 31 Jul. 1978 — ex. set
- **N. rafflesiana-vittata* X *N. x dyeriana* on Aug. 1976 — poor
- N. rafflesiana-vittata* X *N. rafflesiana*-Singapore on 15 Aug. 1978 — ex.
- **N. thorellii*-long narrow X *N. x dyeriana* on 27 Sep. 1976 — poor set
- **N. thorellii*-long narrow X *N. x superba-mixta* during Summer, 1976 — moderate
- **N. thorellii*-short round X *N. x dyeriana* on 19 Sep. 1977 — poor set
- **N. thorellii*-short round X *N. x coccinea* on 09 Dec. 1976 — excellent set
- **N. thorellii-rubra* X *N. rafflesiana*-Singapore on 08 Aug. 1978 — mod.
- **N. thorellii-rubra* X *N. x williamsii* on 08 Aug. 1978 — moderate set

Other crosses involving especially *N. x superba-mixta* were made in January, 1979. The results of these crosses will be reported later this year as well as any others. Some of these seeds have already been distributed to the Seed Bank.

* items means that seed had been germinated and seedlings are growing.

JAPANESE NEPENTHES HYBRIDS

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(At my request, Mr. Kusakabe provided us a listing of all known *Nepenthes* hybrids made by Japanese breeders from early in this century up to the present time. This list should complement the known lists of *Nepenthes* hybrids made mostly by the British nursery, Veitch, and James Taplin in America. The latter breeder worked for George Such of South Amboy, New Jersey, a short distance from Perth Amboy. Taplin's hybrids were sold to British breeders and, to make matters worse, the names were changed by them so that it becomes quite difficult to trace the history of the crosses originally made in America. If anyone has any more information regarding the Such Nursery, and especially the breeding records of James Taplin, we would certainly welcome (and would like to publish) this information.) J.A.M., ed.

Name	Parentage	Cross Breeder	Year	Raiser	In Existence
<i>Arakawae</i>	<i>mixta</i> X <i>alata</i>	M. Toyoshima	1970	Toyoshima	yes
* <i>Fukubae</i>	<i>mixta</i> X <i>maxima superba</i>	O. Fukuba	ca. 1914	I.B.G.S.	no (ca. 1920)
<i>Fukakutana</i>	<i>rafflesiana</i> X <i>dyeriana</i>	M. Toyoshima	1964	Toyoshima	yes
<i>Fuchimientis</i>	<i>globamborba</i> X <i>thorellii</i>	M. Toyoshima	1970	Toyoshima	yes
* <i>Gojima</i>	<i>Oitoensis</i> X <i>bookeriana</i>	N. Ikeda	ca. 1939	J.H.C.	no
* <i>Ikedae</i>	<i>Oitoensis</i> X <i>dyeriana</i>	N. Ikeda	ca. 1940	J.H.C.	no
* <i>Katagiri</i>	<i>Oitoensis</i> X <i>maxima</i>	N. Ikeda	ca. 1930	J.H.C.	no
<i>Kikuchibae</i>	<i>mixta</i> X <i>maxima</i>	K. Okuyama	1967	Kikuchi Nur.	yes
* <i>Koitoensis</i>	<i>Oitoensis</i> (self)	N. Ikeda	ca. 1939	J.H.C.	no
<i>Masamiae</i>	<i>thorellii</i> X <i>maxima</i>	M. Toyoshima	1970	Toyoshima	yes
<i>Minamiensis</i>	<i>mixta</i> X <i>wrigleyana</i>	N. Naito	1964	Minami Nur.	yes
* <i>Mino'o</i>	<i>ventricosa</i> X <i>mastersiana</i>	?	ca. 1930	Mino'o-en Nur.	no
<i>Mizubo</i>	<i>rafflesiana</i> X <i>dyeriana</i>	M. Kondo	1965	Kondo	yes
<i>Nagoya</i>	<i>mixta</i> X <i>thorellii</i>	M. Kondo	1967	Kondo	yes
<i>Nagoya</i> var.	<i>mixta</i> X <i>thorellii</i>	M. Toyoshima	1970	Toyoshima	yes
* <i>Nishijimae</i>	<i>mixta</i> X <i>bookeriana</i>	R. Nishijima	ca. 1910	T.B.G.	no (ca. 1930)
<i>Oitoensis</i>	<i>mixta sandariana</i> X <i>maxima superba</i>	N. Ikeda	ca. 1935	J.H.C.	yes
<i>Princeps</i>	<i>mixta</i> X <i>dyeriana</i>	M. Kondo	1966	Kondo	yes
<i>Rokko</i>	<i>thorellii</i> X <i>maxima</i>	G. Yamakawa	1977	Yamakawa, Kusakabe	yes
* <i>Sakuradae</i>	<i>mixta</i> X <i>maxima</i>	A. Sakurada	ca. 1935	Sakurada	no
* <i>Shinjiku</i>	<i>mixta</i> X <i>wrigleyana</i>	Y. Okami	ca. 1930	I.B.G.S.	no
<i>Shioji</i>	<i>mixta</i> X <i>dyeriana</i>	M. Kondo	1966	Kondo	yes
†* <i>Shunkyuensis</i>	<i>bookeriana</i> X <i>mixta</i> (?)	K. Suzuki	ca. 1925	Shunkyu-en Nur.	no
<i>Toyoshimae</i>	<i>truncata</i> X <i>thorellii</i>	M. Toyoshima	1970	Toyoshima	yes
* <i>Toyotamaensis</i>	<i>mixta</i> X <i>rafflesiana</i>	R. Nishijima	ca. 1910	T.B.G.	no (ca. 1930)
* <i>Toyotamaensis inversa</i>	<i>rafflesiana</i> X <i>mixta</i>	R. Nishijima	ca. 1910	T.B.G.	no (ca. 1930)
<i>Tsuimoto</i>	<i>mastersiana</i> X <i>wrigleyana</i>	Takarazuka B.G.	1951	E. Tsujimoto	yes

* = unsubstantiated hybrids picked up from old catalogues and miscellany concerning the hybrid, *N. X Shunkyuensis*, Mr. Suzuki, the cross-breeder, stated that the pollen parent may be *N. mixta*. However, in my opinion, this is *N. maxima* because I have never seen a male plant of *N. mixta* in Japan in either living plants or records.

REMARKS:

I.B.G.S. = Imperial Botanic Garden Shinjuku, Tokyo. Mn. O. Fukuba & Y. Okami were superintendents.

J.H.C. = Japan Horticulture Co. Ltd., Oiso, Kanagawa Pref. President: N. Ikeda, Mn. Katagiri & Gojima were superintendents.

T.B.G. = Toyotama Botanic Garden, Tokyo. Owner: R. Nishijima Shunkyu-en Nursery, Yokohama, Kanagawa Pref. Owner: K. Suzuki

Sakurada, A., Sendai, Miyagi Pref. (Practitioner)

Minami Nursery, Hachijo Isl., Tokyo.

Kikuchi Nursery, Hachijo Isl., Tokyo.

Mino'o Nursery, Toyonaka, Ohsaka. (Owner: unknown)

Okuyama, K.: Owner of Issei-en Nursery, Hachijo Isl., Tokyo.

Kondo, M.: Shioji-cho, Mizuho-ku, Hagoya.

Toyoshima, M.: Fushimi-ku, Kyoto.

Tsujimoto, E.: Hamadera, Sakai-City, Ohsaka. He was an authority on *Nepenthes*.

Takarazuka Botanic Garden: Takarazuka, Hyogo Pref. Owner: Hankyu Electric Railway Co. Ltd.

Most extinct hybrids died out in the hard winter of 1940 and during 2nd World War by the shortage of fuels and bombing.