Prop. 12.xx

CONSIDERATION OF PROPOSALS FOR AMENDMENT OF APPENDICES I AND II

Other proposals

A. Proposal

To annotate Orchidaceae in Appendix II to exclude artificially propagated specimens of the following genera:

Cattleya	Interspecific hybrids within the genus and intergeneric hybrids
Cymbidium	Interspecific hybrids within the genus and intergeneric hybrids
Dendrobium	Interspecific hybrids within the genus known in horticulture as "*nobile*-types" and "*Phalaenopsis*-types," both of which are clearly recognizable by commercial growers and hobbyists
Oncidium	Interspecific hybrids within the genus and intergeneric hybrids
Phalaenopsis	Interspecific hybrids within the genus and intergeneric hybrids
Vanda	Interspecific hybrids within the genus and intergeneric hybrids

B. Proponent

[to be determined]

C. Supporting Statement

1. Taxonomy

1.1 Class — Monocotyledonae

1.2 Order — Orchidales

1.3 Family — Orchidaceae

1.4 Genera

1.4.1 *Cattleya* Lindl. hybrids (approximately 30,000 man-made interspecific and intergeneric hybrids; Annex 1)

1.4.2 *Cymbidium* Sw. (approximately 11,000 man-made interspecific and intergeneric hybrids; Annex 1)

1.4.3 *Dendrobium nobile* Lindl. and *Dendrobium bigibbum* Lindl. [=*D. Phalaenopsis* Fitzg.] (thousands of man-made hybrids known in trade as "*nobile*-type" and "*phalaenopsis*-type" dendrobiums)

1.4.4 *Oncidium* Sw. (approximately 4,000 man-made hybrids)

1.4.5 *Phalaenopsis* Blume (over 22,000 man-made hybrids)

1.4.6 *Vanda* Jones (approximately 6,000 man-made hybrids)

1.5 Scientific synonyms — See Annex 1 for names of intergeneric hybrids.

1.6 Common names** — English: Dancing lady orchid (*Oncidium*); Moth orchid (*Phalaenopsis*)

** Many orchids do not have common names and are usually traded under their scientific names

2. Biological Parameters

These parameters are not relevant for this proposal, since it does not refer to wild-collected specimens, or even to naturally occurring entities in most cases (i.e., except for natural hybrids, which may also be artificially produced in cultivation).

This proposal is made in accordance with the provisions of paragraph f) under the second RESOLVES in Resolution Conf. 9.24:

> "[S]pecies of which all specimens in trade have been bred in captivity or artificially propagated should not be included in the Appendices if there is no probability of trade taking place in specimens of wild origin:"

as well as in accordance with the provisions of paragraph a) under DETERMINES in the section of Resolution Conf. 11.11 Regarding hybrids:

> "[H]ybrids shall be subject to the provisions of the Convention even though not specifically included in the Appendices if one or both of their parents are of taxa included in the Appendices, unless the hybrids are excluded from CITES controls by a specific annotation in Appendix II or III (see annotation °608 in the Interpretation of Appendices I and II)."

3. Utilization and Trade

3.1 National utilization

A country-by-country account of national utilization of these hybrids would not be meaningful because they are not natural entities and they are traded worldwide.

3.2 Legal international trade

Data from the World Conservation Monitoring Centre for the years 1980 to 1998 (the most recent year for which data were available) show an increasing number of artificially propagated specimens, including an increasing percentage, make up the total recorded legal trade. Of the tens of millions of orchids traded annually, approximately 95% or more are artificially propagated (see Annex 2). At the same time, the total numbers of wild-collected plants in trade appear to be declining (see Annex 3), although it is difficult to make such a statement with certainty due to the potential for recent years' data to be incomplete.

3.3 Illegal trade

Artificially propagated hybrid specimens of these genera are illegally traded, although deliberate efforts to smuggle orchids generally involve species. Illegal trade of hybrids often consists of small numbers of specimens by hobbyists who are unaware of documentation requirements. Commercial growers are usually aware of the requirements for permits or certificates and obtain them as needed, although occasional irregularities occur. The majority of these artificially propagated hybrids are complex interspecific or intergeneric hybrids several generations removed from the original species used to create them, with their origins pre-dating the Convention.

3.4 Actual or potential trade impacts

Concern over the impact of trade is not related to these entities, but to the naturally occurring species within these genera. Exempting artificially propagated hybrids may be harmful to wild populations if wild-collected specimens of these genera are misrepresented in trade as artificially propagated hybrids.

3.5 Captive breeding or artificial propagation for commercial purposes (outside country of origin)

Artificially propagated specimens of these six genera (*Cattleya, Cymbidium, Dendrobium, Oncidium, Phalaenopsis* and *Vanda*) are represented by over 80,000 hybrid gregi (plural of grex, the term used for the progeny resulting from a cross of two particular parental plants; number as of December 2001) and constitute by far the largest component of international commercial orchid trade. Breeding in these six genera has occurred since hybridization began in the orchid family in the middle of the 19th Century. A *Cattleya* hybrid was the first interspecific hybrid recorded, ca. 1850, though it was not the first to flower. Since 1922, when Lewis Knudson introduced asymbiotic seed culture for orchids, their hybridization has exploded, with over 110,000 hybrid gregi registered by the end of 2000. Seed culture, while still a vital part of large-scale commercial orchid production–particularly in *Phalaenopsis*, by far the leader in numbers of plants produced–tissue culture or cloning (meristemming) of popular cultivars has enabled the global market to grow at an exponential rate.

The phenomenal growth rate of the global orchid trade, as evidenced by trade figures, has been fueled by several factors. These include: an increase in popularity and the realization by consumers that orchids are affordable and amenable to home culture; technological improvements in orchid culture, which enable plants to be grown in greater quantities, faster, and therefore at a lower cost; improved transport from lower-cost production areas to distant markets where production is less cost-effective; and improved communication between producer countries and consumer countries, where higher prices can be obtained by superior marketing.

Major producing nations include Brazil, China, Costa Rica, Indonesia, Malaysia, the Netherlands, the Philippines, Thailand, and the United States of America. Increasing demand in developed nations provides the opportunity for the development of export markets by other developing nations in Southeast Asia and Latin America.

4. Conservation and Management

4.1 Legal status

Artificially propagated hybrids may be subject to legal controls at the national level to effect the protection of species. These hybrids currently require CITES export documents to ensure that their export is both legal and not detrimental to their parent species.

4.2 Species management

Not relevant for this proposal.

4.3 Control measures

Artificially propagated hybrids of *Cattleya, Cymbidium, Dendrobium, Oncidium, Phalaenopsis,* and *Vanda* can be distinguished from wild specimens by the following characteristics:

- the plants are traded in large volumes by traders who specialize in mass-marketed pot plants;
- specimens of the same taxon are highly uniform in size and form, especially within a shipment;
- specimens are generally free of pests, disease, and damage;
- specimens are typically grown in pots and often will have roots conforming to the shape of the pot in which they were grown;
- prices of these plants are typically low and consistent within taxa;
- artificially propagated hybrids will often be exported in large volumes from countries that do not include the natural range of the parent species, although this is not exclusively the case.

5. Information on Similar Species

This proposal only relates to artificially propagated hybrid plants of the specified six genera, all of which are relatively easy to identify to genus or type. The artificially propagated hybrids of these genera may be confused in trade with their parent species (congeners) due to similarity of appearance.

6. Other Comments

6.1 General

This proposal was developed as a consequence of a review of the listing of the Orchidaceae, which was begun at the Tenth Meeting of the Plants Committee in Shepherdstown, United States of America, by a Working Group, with the assistance of the Secretariat. At the Eleventh Meeting of the Plants Committee, in Langkawi, Malaysia, it was determined that a thorough review of all Orchidaceae was not practicable, due to limited resources and the enormity of the task. However, to make the listing of Orchidaceae more effective, it was agreed that another Working Group would investigate the feasibility of annotating the selected genera covered by this proposal to exempt their artificially propagated hybrids from CITES controls. Such an annotation is intended to create an incentive for trade in artificially propagated specimens, by eliminating the need for CITES permits, as a preferred alternative to trade in wild-collected specimens for which trade impacts are not precisely known. In addition, removing artificially propagated specimens from CITES controls should significantly reduce the workload of permit-issuing authorities so that they may concentrate their efforts on specimens requiring closer scrutiny. However, this annotation will place a burden of responsibility on inspection officials to ensure that specimens qualify for the exemption, and additional mechanisms may need to be considered for such an exemption to be workable.

7. Additional Remarks

[Include information on consultation with range countries and indications of support and/or opposition to the proposal.]

8. References

Bechtel, H., P. Cribb, and E. Launert. 1992. *The Manual of Cultivated Orchid Species*, Third Edition. The MIT Press, Cambridge, Massachusetts.

Dressler, R. L. 1993. *Phylogeny and Classification of the Orchid Family*. Dioscorides Press, Hong Kong.

Wildcatt Database Co. 2001. *Wildcatt Orchids: An Orchid Database* (CD-ROM). Wildcatt Database Co., Ames, Iowa.

Names of intergeneric hybrids involving the six natural genera of *Cattleya, Cymbidium, Dendrobium, Oncidium, Phalaenopsis,* and *Vanda*. The total number of registered hybrids for these groups was 80,318 in December 2001.

***Cattleya* hybrids and intergeneric hybrids involving *Cattleya*.**
Total number of hybrids in this group: approximately 29,000

Hybrid name	Abbreviation	Genera used
Allenara	Alna	Cattley x Diacrium x Epidendrum x Laelia
Arizara	Ariz	Cattleya x Dga x Epidendrum
Bishopara	Bish	Broughtonia x Cattleya x Sophronitis
Brassocattleya	Bc	Brassavola x Cattleya
Brassolaeliocattleya	Blc	Brassavola x Cattleya x Laelia
Brownara	Bwna	Broughtonia x Cattleya x Diacrium
Buiara	Bui	Broughtonia x Cattleya x Epidendrum x Laelia x Sophronitis
Cattkeria	Cka	Barkeria x Cattleya
Cattlassia	Cas	Brassia x Cattleya
Cattleya	C	Cattleya x Cattleya
Cattleytonia	Ctna	Broughtonia x Cattleya
Cattotes	Ctts	Cattleya x Leptotes
Clarkeara	Clka	Brassavola x Cattleya x Diacrium x Laelia x Sophronitis
Cookara	Cook	Broughtonia x Cattleya x Diacrium x Laelia
Dekensara	Dek	Brassavola x Cattleya x Schomburgkia
Diacattleya	Diaca	Cattleya x Diacrium
Dialaeliocattleya	Dialc	Cattleya x Diacrium x Laelia
Epicatonia	Epctn	Broughtonia x Cattleya x Epidendrumdendrum
Epicattleya	Epc	Cattleya x Epidendrum
Epilaeliocattleya	Eplc	Cattleya x Epidendrum x Laelia
Estelaara	Esta	Brassavola x Cattleya x Epidendrum x Tetramicra
Fergusonara	Ferg	Brassavola x Cattleya x Laelia x Schomburgkia x Sophronitis
Fialaara	Fia	Broughtonia x Cattleya x Laelia x Lps
Fordyceara	Fdca	Broughtonia x Cattleya x Lps x Tetramicra
Fujiwarara	Fjw	Brassavola x Cattleya x Lps
Gladysyeeara	Glya	Brassavola x Broughtonia x Cattleya x Ctps x Diacrium x Epidendrum x Laelia x Sophronitis
Hasegawaara	Hasgw	Brassavola x Broughtonia x Cattleya x Laelia x Sophronitis
Hattoriara	Hatt	Brassavola x Broughtonia x Cattleya x Epidendrum x Laelia
Hawkesara	Hwkra	Cattleya x Ctps x Epidendrum
Hawkinsara	Hknsa	Broughtonia x Cattleya x Laelia x Sophronitis
Herbertara	Hbtr	Cattleya x Laelia x Schomburgkia x Sophronitis
Higashiara	Hgsh	Cattleya x Diacrium x Laelia x Sophronitis
Hookerara	Hook	Brassavola x Cattleya x Diacrium
Iacovielloara	Icvl	Brassavola x Cattleya x Diacrium x Epidendrum x Laelia
Iwanagara	Iwan	Brassavola x Cattleya x Diacrium x Laelia
Izumiara	Izma	Cattleya x Epidendrum x Laelia x Schomburgkia x Sophronitis
Jewellara	Jwa	Broughtonia x Cattleya x Epidendrum x Laelia
Johnyeeara	Jya	Brassavola x Cattleya x Epidendrum x Laelia x Schomburgkia x Sophronitis
Kawamotoara	Kwmta	Brassavola x Cattleya x Dga x Epidendrum x Laelia
Kirchara	Kir	Cattleya x Epidendrum x Laelia x Sophronitis
Kraussara	Krsa	Broughtonia x Cattleya x Diacrium x Lps
Laeliocatonia	Lctna	Broughtonia x Cattleya x Laelia
Laeliocattkeria	Lcka	Barkeria x Cattleya x Laelia

Hybrid name	Abbreviation	Genera used
Laeliocattleya	Lc	Cattleya x Laelia
Laeliopleya	Lpya	Cattleya x Lps
Lyonara	Lyon	Cattleya x Laelia x Sophronitis
Mailamaiara	Mai	Cattleya x Diacrium x Laelia x Schomburgkia
Matsudaara	Msda	Barkeria x Cattleya x Laelia x Sophronitis
Maymoirara	Mymra	Cattleya x Epidendrum x Lps
Mizutara	Miz	Cattleya x Diacrium x Schomburgkia
Mooreara	Mora	Brassavola x Broughtonia x Cattleya x Laelia x Schomburgkia x Sophronitis
Northenara	Nrna	Cattleya x Epidendrum x Laelia x Schomburgkia
Opsiscattleya	Opsct	Cattleya x Ctps
Osmentara	Osmt	Broughtonia x Cattleya x Lps
Otaara	Otr	Brassavola x Broughtonia x Cattleya x Laelia
Potinara	Pot	Brassavola x Cattleya x Laelia x Sophronitis
Recchara	Recc	Brassavola x Cattleya x Laelia x Schomburgkia
Rolfeara	Rolf	Brassavola x Cattleya x Sophronitis
Rothara	Roth	Brassavola x Cattleya x Epidendrum x Laelia x Sophronitis
Sakabaara	Skba	Brassavola x Broughtonia x Cattleya x Diacrium x Laelia
Sallyyeeara	Sya	Brassavola x Broughtonia x Cattleya x Ctps x Diacrium x Epidendrum x Laelia x Schomburgkia x Sophronitis
Schombocatonia	Smbcna	Broughtonia x Cattleya x Schomburgkia
Schombocattleya	Smbc	Cattleya x Schomburgkia
Scullyara	Scu	Cattleya x Epidendrum x Schomburgkia
Sophrocattleya	Sc	Cattleya x Sophronitis
Sophrolaeliocattleya	Slc	Cattleya x Laelia x Sophronitis
Stacyara	Stac	Cattleya x Epidendrum x Sophronitis
Stellamizutaara	Stlma	Brassavola x Broughtonia x Cattleya
Susanperreiraara	Sprra	Broughtonia x Cattleya x Tetramicra
Symmonsara	Syma	Brassavola x Cattleya x Epidendrum x Schomburgkia
Tetracattleya	Ttct	Cattleya x Tetramicra
Trisuloara	Tsla	Barkeria x Brassavola x Cattleya x Epidendrum x Laelia x Sophronitis
Tuckerara	Tuck	Cattleya x Diacrium x Epidendrum
Turnbowara	Tbwa	Barkeria x Broughtonia x Cattleya
Vacherotara	Vach	Brassavola x Broughtonia x Cattleya x Epidendrum x Laelia x Sophronitis
Vaughnara	Vnra	Brassavola x Cattleya x Epidendrum
Vejvarutara	Vja	Broughtonia x Cattleya x Ctps
Westara	Wsta	Brassavola x Broughtonia x Cattleya x Laelia x Schomburgkia
Wilburchangara	Wbchg	Broughtonia x Cattleya x Epidendrum x Schomburgkia
Yahiroara	Yhra	Brassavola x Cattleya x Epidendrum x Laelia x Schomburgkia
Yamadara	Yam	Brassavola x Cattleya x Epidendrum x Laelia
Yeeara	Yra	Brassavola x Broughtonia x Cattleya x Epidendrum x Laelia x Schomburgkia x Sophronitis

***Vanda* hybrids and intergeneric hybrids involving *Vanda*.**
Total number of hybrids in this group: approximately 6,000

Hybrid name	Abbreviation	Genera used
Aeridovanda	Aerdv	Aerides x Vanda
Aeridovanisia	Aervsa	Aerides x Lsa x Vanda
Alphonsoara	Alph	Arachnis x Ascocentrum x Vanda x Vandopsis
Andrewara	Andw	Arachnis x Renanthera x Trichoglottis x Vanda
Aranda	Aranda	Arachnis x Vanda
Ascocenda	Asco	Ascocentrum x Vanda
Ascovandoritis	Asvts	Ascocentrum x Doritis x Vanda
Bogardara	Bgd	Ascocentrum x Phalaenopsis x Vanda
Bokchoonara	Bkch	Arachnis x Ascocentrum x Phalaenopsis x Vanda
Bovornara	Bov	Arachnis x Ascocentrum x Rhyncostylis x Vanda
Burkillara	Burk	Aerides x Arachnis x Vanda
Charlieara	Charl	Rhyncostylis x Vanda x Vandopsis
Christieara	Chtra	Aerides x Ascocentrum x Vanda
Chuatianara	Chtn	Neofinetia x Renanthera x Rhyncostylis x Vanda
Darwinara	Dar	Ascocentrum x Neofinetia x Rhyncostylis x Vanda
Debruyneara	Dbra	Ascocentrum x Lsa x Vanda
Devereuxara	Dvra	Ascocentrum x Phalaenopsis x Vanda
Eastonara	Eas	Ascocentrum x Gchls x Vanda
Engkhiamara	Ekma	Aerides x Arachnis x Ascocentrum x Renanthera x Vanda
Fujioara	Fjo	Ascocentrum x Trichoglottis x Vanda
Goffara	Gfa	Lsa x Rhyncostylis x Vanda
Hagerara	Hgra	Doritis x Phalaenopsis x Vanda
Hawaiiara	Haw	Renanthera x Vanda x Vandopsis
Himoriara	Hmra	Ascocentrum x Phalaenopsis x Rhyncostylis x Vanda
Holttumara	Holtt	Arachnis x Renanthera x Vanda
Isaoara	Isr	Aerides x Ascocentrum x Phalaenopsis x Vanda
Joannara	Jnna	Renanthera x Rhyncostylis x Vanda
Kagawara	Kgw	Ascocentrum x Renanthera x Vanda
Kippenara	Kpa	Ascocentrum x Doritis x Rhyncostylis x Vanda
Knappara	Knp	Ascocentrum x Rhyncostylis x Vanda x Vandopsis
Knudsonara	Knud	Ascocentrum x Neofinetia x Renanthera x Rhyncostylis x Vanda
Laipenchihara	Lpca	Ascocentrum x Doritis x Neofinetia x Rhyncostylis x Vanda
Leaneyara	Lnya	Ascocentrum x Rhyncostylis x Sarcochilus x Vanda
Leeara	Leeara	Arachnis x Vanda x Vandopsis
Lewisara	Lwsra	Aerides x Arachnis x Ascocentrum x Vanda
Luisanda	Lsnd	Lsa x Vanda
Luivanetia	Lvta	Lsa x Neofinetia x V
Maccoyara	Mcyra	Aerides x Vanda x Vandopsis
Macekara	Maka	Arachnis x Phalaenopsis x Renanthera x Vanda x Vandopsis
Meechaiara	Mchr	Ascocentrum x Doritis x Phalaenopsis x Rhyncostylis x Vanda
Micholitzara	Mchza	Aerides x Ascocentrum x Neofinetia x Vanda
Moirara	Moir	Phalaenopsis x Renanthera x Vanda
Mokara	Mkra	Arachnis x Ascocentrum x Vanda
Nakamotoara	Nak	Ascocentrum x Neofinetia x Vanda
Nobleara	Nlra	Aerides x Renanthera x Vanda
Okaara	Okr	Ascocentrum x Renanthera x Rhyncostylis x Vanda
Onoara	Onra	Ascocentrum x Renanthera x Vanda x Vandopsis
Opsisanda	Opsis	Vanda x Vandopsis
Pageara	Pga	Ascocentrum x Lsa x Rhyncostylis x Vanda
Pantapaara	Pntp	Ascgm x Renanthera x Vanda
Paulara	Plra	Ascocentrum x Doritis x Phalaenopsis x Renanthera x Vanda

Hybrid name	Abbreviation	Genera used
Pehara	Peh	Aerides x Arachnis x Vanda x Vandopsis
Perreiraara	Prra	Aerides x Rhyncostylis x Vanda
Phalaerianda	Phda	Aerides x Phalaenopsis x Vanda
Porterara	Prta	Rhyncostylis x Sarcochilus x Vanda
Raganara	Rgn	Renanthera x Trichoglottis x Vanda
Ramasamyara	Rmsya	Arachnis x Rhyncostylis x Vanda
Renafinanda	Rfnda	Neofinetia x Renanthera x Vanda
Renanda	Rnnd	Arachnis x Renanthera x Vanda
Renantanda	Rntda	Renanthera x Vanda
Rhynchovanda	Rhv	Rhyncostylis x Vanda
Ridleyara	Ridl	Arachnis x Trichoglottis x Vanda
Robinara	Rbnra	Aerides x Ascocentrum x Renanthera x Vanda
Ronnyara	Rnya	Aerides x Ascocentrum x Rhyncostylis x Vanda
Sanjumeara	Sjma	Aerides x Neofinetia x Rhyncostylis x Vanda
Saplalaara	Spla	Ascocentrum x Renanthera x Rhyncostylis x Vanda x Vandopsis
Sarcovanda	Srv	Sarcochilus x Vanda
Shigeuraara	Shgra	Ascocentrum x Ascgm x Renanthera x Vanda
Stamariaara	Stmra	Ascocentrum x Phalaenopsis x Renanthera x Vanda
Sutingara	Sut	Arachnis x Ascocentrum x Phalaenopsis x Vanda x Vandopsis
Tanara	Tanara	Aerides x Ascocentrum x Renanthera x Rhyncostylis x Vanda
Teohara	Thra	Arachnis x Renanthera x Vanda x Vandopsis
Trevorara	Trev	Arachnis x Phalaenopsis x Vanda
Trichovanda	Trcv	Trichoglottis x Vanda
Vancampe	Vcp	Acampe x Vanda
Vanda	V	Vanda x Vanda
Vandaenopsis	Vdnps	Phalaenopsis x Vanda
Vandaeranthes	Vths	Aeridesth x Vanda
Vandewegheara	Vwga	Ascocentrum x Doritis x Phalaenopsis x Vanda
Vandofinetia	Vf	Neofinetia x Vanda
Vandofinides	Vfds	Aerides x Neofinetia x Vanda
Vandoritis	Vdts	Doritis x Vanda
Vanglossum	Vgm	Ascgm x Vanda
Vascostylis	Vasco	Ascocentrum x Rhyncostylis x Vanda
Viraphandhuara	Vpda	Aerides x Ascocentrum x Neofinetia x Vanda
Wailaiara	Wlra	Aerides x Arachnis x Ascocentrum x Rhyncostylis x Vanda
Waironara	Wrna	Aerides x Renanthera x Rhyncostylis x Vanda
Wilkinsara	Wknsra	Ascocentrum x Vanda x Vandopsis
Yapara	Yap	Phalaenopsis x Rhyncostylis x Vanda
Yeepengara	Ypga	Aerides x Phalaenopsis x Rhyncostylis x Vanda
Yonezawaara	Yzwr	Neofinetia x Rhyncostylis x Vanda
Yusofara	Ysfra	Arachnis x Ascocentrum x Renanthera x Vanda

Oncidium **hybrids and intergeneric hybrids involving** ***Oncidium*****.**
Total number of hybrids in this group: approximately 4,000

Hybrid name	Abbreviation	Genera used
Adacidium	Adcm	Ada x Oncidium
Alexanderara	Alxra	Brassia x Cochlioda x Odontoglossum x Oncidium
Aliceara	Alcra	Brassia x Miltonia x Oncidium
Aspasium	Aspsm	Aspasia x Oncidium
Bakerara	Bak	Brassia x Miltonia x Odontoglossum x Oncidium
Baldwinara	Bdwna	Aspasia x Cochlioda x Odontoglossum x Oncidium
Baptistocidium	Btcm	Baptistonia x Oncidium
Barbosaara	Bbra	Cochlioda x Gomesa x Odontoglossum x Oncidium
Baumannara	Bmnra	Comparettia x Odontoglossum x Oncidium
Brassidium	Brassiadm	Brassia x Oncidium
Brilliandeara	Brlda	Aspasia x Brassia x Cochlioda x Miltonia x Odontoglossum x Oncidium
Burkhardtara	Bktra	Lchs x Odontoglossum x Oncidium x Rodriguezia
Burrageara	Burr	Cochlioda x Miltonia x Odontoglossum x Oncidium
Campbellara	Cmpba	Odontoglossum x Oncidium x Rodriguezia
Carpenterara	Cptra	Baptistonia x Odontoglossum x Oncidium
Charlesworthara	Cha	Cochlioda x Miltonia x Oncidium
Colmanara	Colm	
Crawshayara	Craw	Miltonia x Odontoglossum x Oncidium
Dunningara	Dngra	Aspasia x Miltonia x Oncidium
Eliara	Eliara	Brassia x Oncidium x Rodriguezia
Eryidium	Erdm	Ercn x Oncidium
Georgeblackara	Gbka	Comparettia x Lchs x Oncidium x Rodriguezia
Goodaleara	Gdlra	Brassia x Cochlioda x Miltonia x Odontoglossum x Oncidium
Howeara	Hwra	Lchs x Oncidium x Rodriguezia
Ionocidium	Incdm	Ionopsis x Oncidium
Johnkellyara	Jkl	Brassia x Lchs x Oncidium x Rodriguezia
Kriegerara	Kgra	Ada x Cochlioda x Odontoglossum x Oncidium
Leocidium	Lcdm	Lchs x Oncidium
Leocidmesa	Lcmsa	Gomesa x Lchs x Oncidium
Leocidpasia	Lcdpa	Aspasia x Lchs x Oncidium
Liebmanara	Lieb	Aspasia x Cochlioda x Oncidium
Lockcidium	Lkcdm	Lockhartia x Oncidium
Lockcidmesa	Lkda	Lockhartia x Oncidium x Gomesa
Maclellanara	Mclna	Brassia x Odontoglossum x Oncidium
Maunderara	Mnda	Ada x Cochlioda x Miltonia x Odontoglossum x Oncidium
Miltonidium	Mtadm	Ada x Miltonia x Oncidium
Miltonidium	Mtdm	Miltonia x Oncidium
Norwoodara	Nwda	Brassia x Miltonia x Oncidium x Rodriguezia
Notylidium	Ntldm	Notylia x Oncidium
Odontocidium	Odcdm	Odontoglossum x Oncidium
Oncidandra	Ora	Galeandra x Oncidium
Oncidenia	Oncidiumna	Macradenia x Oncidium
Oncidesa	Oncidiumsa	Gomesa x Oncidium
Oncidettia	Oncidiumtta	Comparettia x Oncidium
Oncidiella	Oncidiumlla	Oncidium x Rdzlla
Oncidioda	Oncidiumda	Cochlioda x Oncidium
Oncidium	Onc	Oncidium x Oncidium
Oncidpilia	Oncidiumpa	Oncidium x Trichopilia
Ornithocidium	Orncm	Oncidium x Orpha
Pettitara	Pett	Ada x Brassia x Oncidium

Hybrid name	Abbreviation	Genera used
Rehfieldara	Rfda	Ada x Odontoglossum x Oncidium
Richardsonara	Rchna	Aspasia x Odontoglossum x Oncidium
Rodricidium	Rdcm	Oncidium x Rodriguezia
Ruppara	Rppa	Gomesa x Odontoglossum x Oncidium
Sauledaara	Sdra	Aspasia x Brassia x Miltonia x Oncidium x Rodriguezia
Segerara	Sgra	Aspasia x Cochlioda x Miltonia x Odontoglossum x Oncidium
Shiveara	Shva	Aspasia x Brassia x Odontoglossum x Oncidium
Sigmacidium	Sgdm	Oncidium x Sigmatostalix
Trichocidium	Trcdm	Oncidium x Trichocentrum
Vanalstyneara	Vnsta	Miltonia x Odontoglossum x Oncidium x Rodriguezia
Warneara	Wnra	Comparettia x Oncidium x Rodriguezia
Wilsonara	Wils	Cochlioda x Odontoglossum x Oncidium
Withnerara	With	Aspasia x Miltonia x Odontoglossum x Oncidium

***Phalaenopsis* hybrids and intergeneric hybrids involving *Phalaenopsis*.**
Total number of hybrids in this group: approximately 22,500

Hybrid name	Abbreviation	Genera used
Aeridesidopsis	Aeridesps	Aerides x Phalaenopsis
Arachnisnopsis	Arnps	Arachnis x Phalaenopsis
Asconopsis	Ascps	Ascocentrum x Phalaenopsis
Beardara	Bdra	Ascocentrum x Doritis x Phalaenopsis
Bogardara	Bgd	Ascocentrum x Phalaenopsis x Vanda
Bokchoonara	Bkch	Arachnis x Ascocentrum x Phalaenopsis x Vanda
Cleisonopsis	Clnps	Clctn x Phalaenopsis
Devereuxara	Dvra	Ascocentrum x Phalaenopsis x Vanda
Diplonopsis	Dpnps	Dpra x Phalaenopsis
Doritiellaopsis	Dllps	Doritis x Kingiella x Phalaenopsis
Doritaenopsis	Dtps	Doritis x Phalaenopsis
Dresslerara	Dres	Ascgm x Phalaenopsis x Renanthera
Edeara	Edr	Arachnis x Phalaenopsis x Renanthera x Vandopsis
Ernestara	Entra	Phalaenopsis x Renanthera x Vandopsis
Eurynopsis	Eunps	Eurychone x Phalaenopsis
Glanzara	Glz	Doritis x Phalaenopsis x Rhyncostylis
Hagerara	Hgra	Doritis x Phalaenopsis x Vanda
Hausermannara	Haus	Doritis x Phalaenopsis x Vandopsis
Himoriara	Hmra	Ascocentrum x Phalaenopsis x Rhyncostylis x Vanda
Isaoara	Isr	Aerides x Ascocentrum x Phalaenopsis x Vanda
Laycockara	Lay	Arachnis x Phalaenopsis x Vandopsis
Lichtara	Licht	Doritis x Gastrochilus x Phalaenopsis
Luinopsis	Lnps	Lsa x Phalaenopsis
Lutherara	Luth	Phalaenopsis x Renanthera x Rhyncostylis
Macekara	Maka	Arachnis x Phalaenopsis x Renanthera x Vanda x Vandopsis
Meechaiara	Mchr	Ascocentrum x Doritis x Phalaenopsis x Rhyncostylis x Vanda
Moirara	Moir	Phalaenopsis x Renanthera x Vanda
Nakagawaara	Nkgwa	Aerides x Doritis x Phalaenopsis
Neostylopsis	Nsls	Neofinetia x Phalaenopsis x Rhyncostylis
Owensara	Owsr	Doritis x Phalaenopsis x Renanthera
Parnataara	Parn	Aerides x Arachnis x Phalaenopsis
Paulara	Plra	Ascocentrum x Doritis x Phalaenopsis x Renanthera x Vanda
Pepeara	Ppa	Ascocentrum x Doritis x Phalaenopsis x Renanthera
Phalaenopsis	Phal	Phalaenopsis x Phalaenopsis
Phalaerianda	Phda	Aerides x Phalaenopsis x Vanda

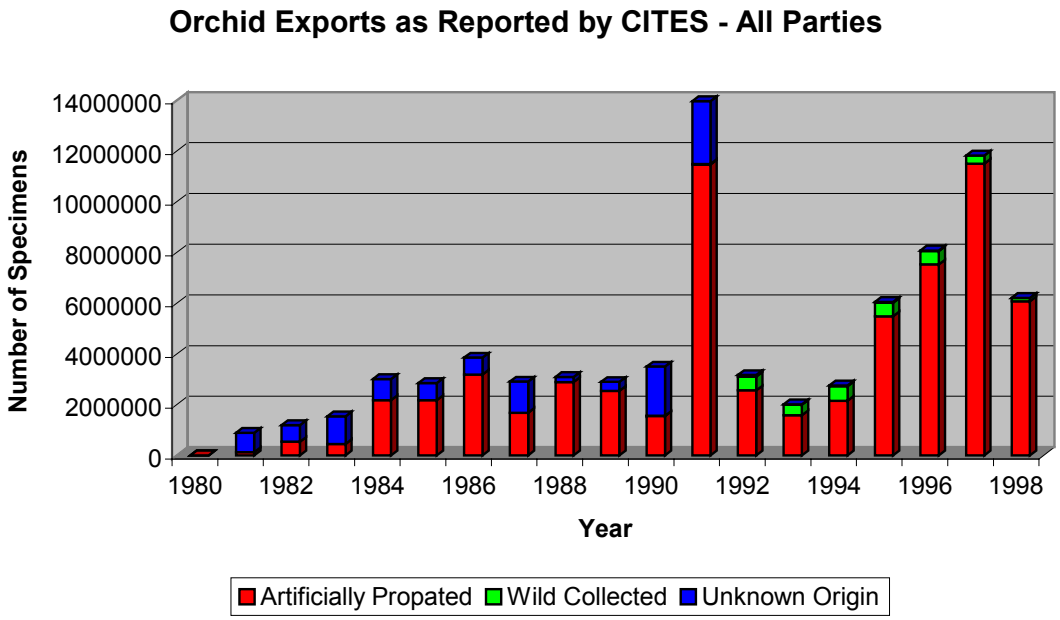
Hybrid name	Abbreviation	Genera used
Phalandopsis	Phdps	Phalaenopsis x Vandopsis
Phalanetia	Phnta	Neofinetia x Phalaenopsis
Phaliella	Phlla	Kingiella x Phalaenopsis
Pooleara	Polra	Ascocentrum x Ascgm x Phalaenopsis x Renanthera
Renanthopsis	Rnthps	Phalaenopsis x Renanthera
Rhynchonopsis	Rhnps	Phalaenopsis x Rhyncostylis
Rhyndoropsis	Rhdps	Doritis x Phalaenopsis x Rhyncostylis
Richardmizutaara	Rcmza	Ascocentrum x Phalaenopsis x Vandopsis
Roseara	Rsra	Doritis x Kingiella x Phalaenopsis x Renanthera
Sappanara	Sapp	Arachnis x Phalaenopsis x Renanthera
Sarconopsis	Srnps	Phalaenopsis x Sarcochilus
Sidranara	Sidr	Ascocentrum x Phalaenopsis x Renanthera
Sladeara	Slad	Doritis x Phalaenopsis x Sarcochilus
Stamariaara	Stmra	Ascocentrum x Phalaenopsis x Renanthera x Vanda
Sutingara	Sut	Arachnis x Ascocentrum x Phalaenopsis x Vanda x Vandopsis
Trautara	Trta	Doritis x Lsa x Phalaenopsis
Trevorara	Trev	Arachnis x Phalaenopsis x Vanda
Trichonopsis	Trnps	Phalaenopsis x Trichoglottis
Uptonara	Upta	Phalaenopsis x Rhyncostylis x Sarcochilus
Vandaenopsis	Vdnps	Phalaenopsis x Vanda
Vandewegheara	Vwga	Ascocentrum x Doritis x Phalaenopsis x Vanda
Yapara	Yap	Phalaenopsis x Rhyncostylis x Vanda
Yeepengara	Ypga	Aerides x Phalaenopsis x Rhyncostylis x Vanda

Cymbidiumbidium **hybrids and intergeneric hybrids involving** ***Cymbidiumbidium*****.**
Total number of hybrids in this group: approximately 10,650

Hybrid name	Abbreviation	Genera used
Ansieium	Asdm	Ansiella x Cymbidium
Cymbidasetum	Cymst	Cymbidium x Catasetum
Cymbidium	Cym	Cymbidium x Cymbidium
Cymphiella	Cymph	Cymbidium x Eulophiella
Grammatocymbidium	Grcym	Cymbidium x Grammatophyllum
Phaiocymbidium	Phcym	Cymbidium x Phaius
Thompsonara	Thmpa	Catasetum x Cymbidium x Grammatophyllum

Dendrobium **hybrids and intergeneric hybrids involving** ***Dendrobium*****.**
Total number of hybrids in this group: approximately 8,600

Hybrid name	Abbreviation	Genera used
Dendroberia	Denga	Dendrobium x Flickingeria
Dendrobium	Den	Dendrobium x Dendrobium


Orchid Exports as Reported by CITES - All Parties
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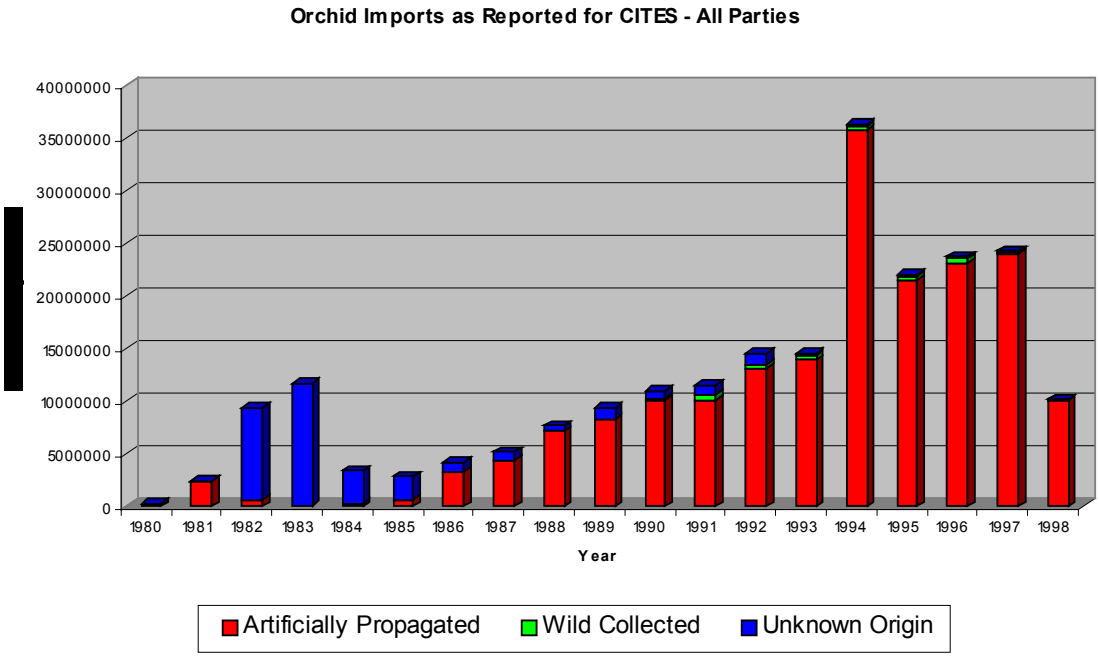
12000000
10000000
8000000
6000000
4000000
2000000
0
1980
1982
1984
1986
1988
1990
1992
1994
1996
1998
Year
Artificially Propated
Wild Collected
Unknown Origin


Orchid Imports as Reported for CITES - All Parties
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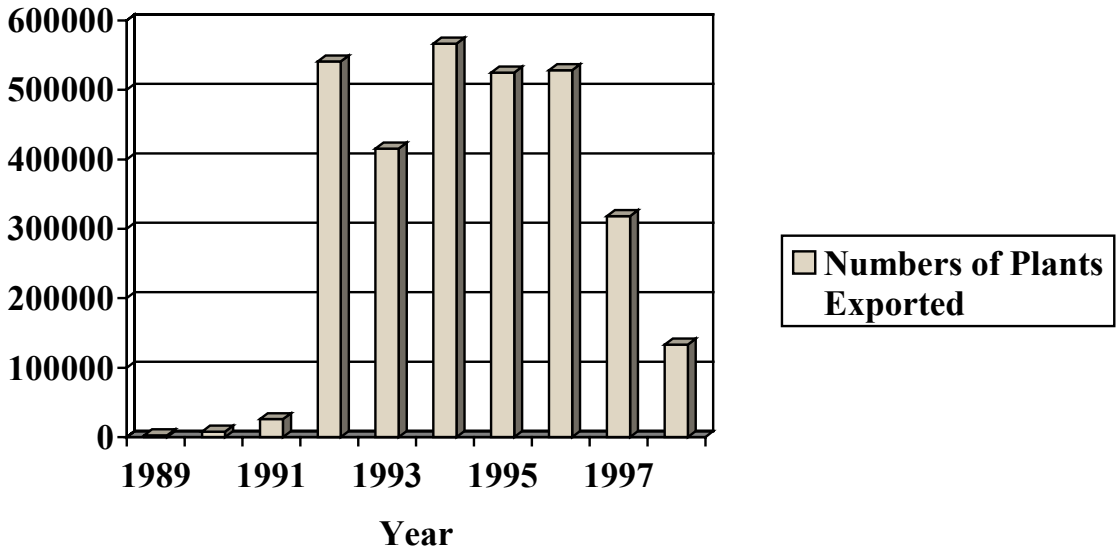
35000000
30000000
25000000
20000000
15000000
10000000
5000000
0
1980
1981
1982
1983
1984
1985
1986
1987
1988
1989
1990
1991
1992
1993
1994
1995
1996
1997
1998
Year
Artificially Propagated
Wild Collected
Unknown Origin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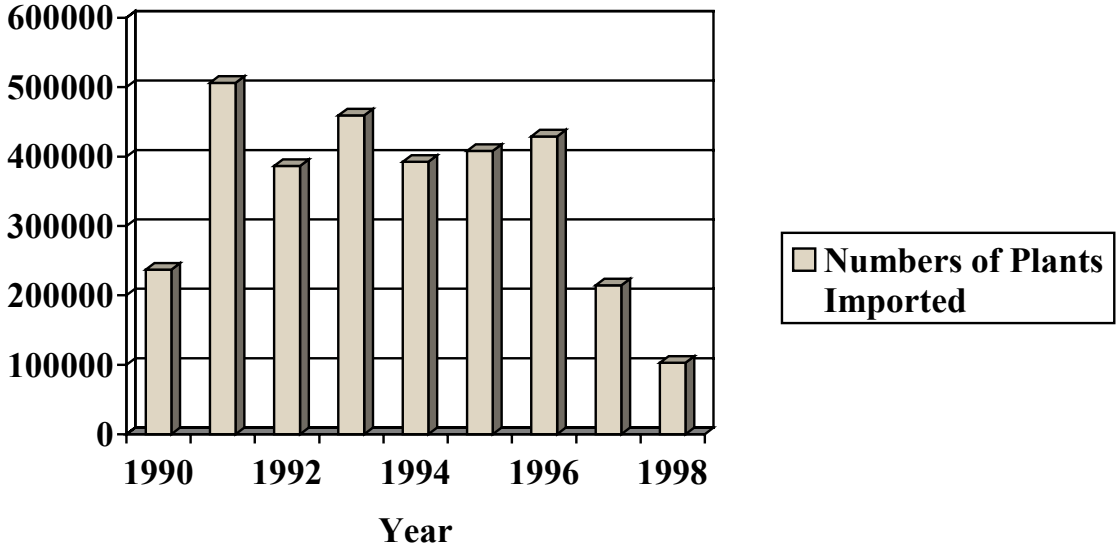
500000
400000
300000
200000
100000
0
1989
1991
1993
1995
1997
Year
Numbers of Plants Exported


600000
500000
400000
300000
200000
100000
0
1990
1992
1994
1996
1998
Year
Numbers of Plants Imported