

S. LEUCOPHYLLA (RAF.) -- GA, FLA, ALA, MISS
 S. MELANORHODA (HORT. VEITCH) = CATESBAEI X PURPUREA -- HORT.
 S. MINOR (WALT.) -- NC, SC, GA, FLA
 S. MITCHELLIANA (NICHOLS.) = LEUCOPHYLLA X PURPUREA -- GA, FLA, ALA, MISS
 S. MOOREANA (VEITCH) = FLAVA X LEUCOPHYLLA -- GA, FLA, ALA
 S. OROPHILA (KEARNEY) -- GA, ALA
 S. X POPEI (MASTERS) = FLAVA X RUBRA -- NC, SC, GA, FLA, ALA
 S. PSILLIACINA (MICHX.) -- GA, FLA, ALA, MISS, LA
 S. PURPUREA (L.) -- EASTERN NORTH AMERICA
 S. PURPUREA F. HETEROPHYLLA (EATON) -- NEWFOUNDLAND, NOVA SCOTIA, MASS, NJ
 S. PURPUREA SPP. PURPUREA (WHEFRY) -- NORTHERN RANGE TO NJ
 S. PURPUREA SPP. VENOSA (RAF.) -- SOUTHERN RANGE FROM NJ
 S. X READII (BELL) = LEUCOPHYLLA X RUBRA -- GA, FLA, ALA, MISS

S. X REHDERI (BELL) = MINOR X FUERA -- NC, SC, GA, FLA
 S. RUBRA (WALT.) -- NC, SC, GA, FLA, ALA, MISS
 S. RUBRA SPP. JONESII (WHERRY) -- FIFE - NC, SC, FLA, ALA, MISS
 S. SANDERIANA (HORT. SANDEFS) = LEUCOPHYLLA X READII -- HORT.
 S. SLEDGEI (MACFAR.) = S. ALATA
 S. SWANIANA (W.F. ROBINSON) = MINOR X PURPUREA -- NC, SC, GA, FLA
 S. X UMLAUETIANA (HEFTA) = COURTII X WIGLEYANA -- HORT.
 S. X VEIERIANA (HEFKA) = ILLUSTRIATA X CATESBAEI -- HORT.
 S. VIITATA MACULATA (NICHOLS.) = PURPUREA X HELSONII -- HORT.
 S. X VOGELIANA (HEFKA) = COURTII X CATESBAEI -- HORT.
 S. WILLISII (HORT. VEITCH) = COURTII X MELANORHODA -- HORT.
 S. X WILLMOTIAE (HORT. BUCE) = CATESBAEI X PURPUREA -- HORT.
 S. WIGLEYANA (S.G.) = LEUCOPHYLLA X PSITTACINA -- GA, FLA, ALA, MISS

PINGUICULA

The genus Pinguicula L. has been extensively studied within the past ten years by S. Jost Casper of the Institut für Spezielle Botanik der Friederich-Schiller-Universität Jena. Dr. Casper has published a number of monographs and shorter regional papers on the genus Pinguicula from which we have compiled this check list. There are still a number of areas of controversy. For example, Casper separated P. macroceras from P. vulgaris as a distinct species, the former ranging from northern California through Alaska and to Japan, the latter from northern Europe through Siberia, northern Alaska, Canada and the north-eastern United States. The only interface is in northwestern Canada and Alaska. Other taxonomists prefer to combine the two into P. vulgaris.

A second area of dispute concerns the Mexican Pinguiculas. McVaugh and Mickel (1963) prefer to combine many of the species found in Mexico while Casper prefers to separate them. We feel Casper presents a good argument for his decisions and we have consistently followed his approach in this check list.

Casper, S.J. On Pinguicula macroceras link in North America. Rhodora 64:212-221. 1962.
 -- -- -- Revision der Gattung Pinguicula in Eurasien. Feddes Repertorium, Bd. 66, H. 1/2. pp. 148. 1962.
 -- -- -- "Systematisch massgebende" Merk, ale für die Einordnung der Lentibulariaceen in das System. Ost. Bot. Zeit. 110:108-131. 1963
 -- -- -- Gedanken zur Gliederung der gattung Pinguicula L. Botanische Jahrbucher 82(3):321-335. 1963
 -- -- -- Neue Pinguicula-Arten aus Mexico. Feddes Repertorium 67:11-16. 1963
 -- -- -- Once More: The orchid-flowered butterworts. Brittonia 18:19-28. 1966.
 -- -- -- Monographie der gattung Pinguicula L. Bibliotheca Botanica. Heft 127/128. Vol. 31, pt. 2. pp. 209. 1966.
 McVaugh, R., Mickel, J.T. Notes on Pinguicula Sect. Orcheosanthus. Brittonia 15:134-140. 1963.

(Bob Ziemer and J.A. Mazrimas)

- P. ALUMINATA (HENTH.) -- MEXICO
 P. ACUTIFOLIA (MICHX.) = P. VILLOSA
 P. AGNATA (CASPER) -- MEXICO
 P. ALBA (KUCHL) = P. ALPINA
 P. ALBANICA (GRISH.) = P. HIRTIFLORA
 P. ALBIDA (WRIGHT EX GRISEB.) -- CUBA
 P. ALPESTRIS (PERSOON) = P. ALPINA
 P. ALPINA (L.) -- EUROPE, ASIA
 P. ANTARCTICA (VAHL) -- CHILE, ARGENTINA
 P. ARCTICA (EASTW.) = P. VULGARIS
 P. ARVETI (GENTY APUD MOROT) = P. LEPTOCERAS
 P. AUSTRALIS (NUTT.) = P. PUMILA
 P. BAKERIANA (SANDER) = P. MORANENSIS
 P. BAKERIANA (SPRAGUE) = P. MACROPHYLLA
 P. HALCANICA (CASPER) -- HUNGARY, YUGOSLAVIA, ALBANIA,
 GREECE
 P. HALCANICA VAR. TENULACINIATA (CASPER) -- GREECE
 P. HENEDICTA (BARNH.) -- CUBA
 P. BICOLOR (MOLNOSZCZAK) = P. VULGARIS F. BICOLOR
 P. BOHEMICA (KRAJINA) = P. VULGARIS
 P. BRACHYLOBA (LEDEBOUR) = P. ALPINA
 P. CAERULEA (MALT.) -- N.C., S.C., GA., FLA.
 P. CALYPTRATA (H.B.K.) -- COLOMBIA, ECUADOR
 P. CAMPANULATA (LAM.) = P. LUTEA
 P. CASAHITIANA (JIMINEZ) -- CUBA
 P. CAUDATA (HEMSLEY) = P. MACROPHYLLA (R. P. UBLINGILOBA
 P. CAUDATA (SCHLECHT.) = P. MORANENSIS
 P. "CAUDATA" X GYPSICOLA (STAPE HORT.) -- HORT.
 P. CHILENSIS (CLUS) -- CHILE, ARGENTINA
 P. CLADOPHILA (ERNST) = P. CASAHITIANA
 P. CLIVORUM (STANDLEY ET STEYERH.) --- NOMEN PURIUM
 P. CULIMENSIS (MC VAUGH ET MICKEL) -- MEXICO
 P. CORSICA (HERN. ET GREN. EX GREN. ET GODER.) -- CORSICA
 P. CRENATILLOBA (DC.) -- MEXICO, GUATEMALA, HONDURAS,
 EL SALVADOR, PANAMA
 P. CRYSTALLINA (SIRTH. EX SIRTH. ET SMITH) -- CYPRUS
 P. CYCLOSECTA (CASPER) -- MEXICO
 P. DAVURICA (LINK) = P. MACROCERAS
 P. DIVERSIFOLIA (CUATR.) = P. FLONGATA
 P. EDENTULA (MOUX.) = P. LUTEA
 P. ELATIOR (MICHX.) = P. CAERULEA
 P. ELIAE (SENNEB.) = P. GRANDIFLORA
 P. FLONGATA (BENJ.) -- VENEZUELA, COLOMBIA
 P. FILIFOLIA (WRIGHT EX GRISEB.) -- CUBA
 P. FLAVESCENS (FLOERKE) = P. ALPINA
 P. FLORIDENSIS (CHAPM.) = P. PUMILA
 P. FLOS-MULTIUNIS (MORH.) = P. MORANENSIS
 P. GELIDA (SCHUR) = P. ALPINA
 P. GLANDULOSA (TRAUTV. ET MEYER) = P. VARIEGATA
 P. GRANDIFLORA (LAM.) -- IRELAND, SPAIN, FRANCE, SWITZ.
 P. GRANDIFLORA F. PALLIDA ((GAUDIN) CASPER) -- FRANCE
 P. GRANDIFLORA SPP. HOSEA ((MUTEL) CASPER) -- FRANCE
 P. GYPSICOLA (BRANDEGEE) -- MEXICO
 P. GYPSOPHILA (WALLROTH) = P. VULGARIS
 P. HELLWEGERI (MURR) = P. LEPTOCERAS
 P. HETEROPHYLLA (BENJ.) -- MEXICO
 P. HIRTIFLORA (TFN.) -- ITALY, F. MEDITERRANEAN
 P. HIRTIFLORA F. PALLIDA (CASPER) -- ITALY, E. MEDITER.
 P. HIRTIFLORA VAR. LOUISII ((MARKGRAF) BENJ.) -- ITALY,
 E. MEDITER.
 P. HIRTIFLORA VAR. MEGASPIATA (BUISS. ET HELDR.)
 SCHINDLER) -- ITALY, F. MEDITER.
 P. HULLENIS (CUATR.) = P. CALYPTRATA
 P. X HYBRIDA (MSTIS.) = ALPIA X VULGARIS -- RUSSIA,
 FINLAND, AUSTRIA
 P. HYPERPUREA (GARDNER) = P. ALPINA
 P. IMITATRIX (CASPER) -- MEXICO
 P. INAEQUILOBATA (SENNEB.) = P. GRANDIFLORA
 P. INVOLUCRATA (DC.) = P. VILLOSA
 P. INVOLUTA (RUZ ET PAV.) -- BOLIVIA, PERU
 P. IONANTHA (GODFREY) -- FLORIDA
 P. JACKII (BARNH.) -- CUBA
 P. JACKII VAR. PARVIFLORA (ERNST) -- CUBA
 P. JURATENSIS (BERNARD) = P. GRANDIFLORA F. PALLIDA
 P. KAMISCHATICA (ROEMER ET SCHULTZ) = P. MACROCERAS
 P. KUNDJI (CASPER) -- MEXICO
 P. LAFTA (PANTUCSEK) = P. HIRTIFLORA
 P. LATECILIATA (MC VAUGH ET MICKEL) = P. CYCLOSECTA
 P. LEPTOCERAS (HEICHB.) -- SWITZ., AUSTRIA, ITALY, FRANCE
 P. LIGNICOLA (BARNH.) -- CUBA
 P. LILACINA (SCHLECHT. ET CHAM.) -- MEXICO
 P. LONGIFOLIA (RAM. EX DC.) -- SPAIN, FRANCE, ITALY
 P. LONGIFOLIA SPP. CAUSSENSIS (CASPER) -- FRANCE
 P. LONGIFOLIA SPP. LONGIFOLIA -- FRANCE
 P. LONGIFOLIA SPP. REICHENBACHIANA ((SCHINDLER) CASPER)
 -- FRANCE, ITALY
 P. LOUISII (MARKGRAF) = P. HIRTIFLORA VAR. LOUISII
 P. LUSITANICA (L.) -- PORTUGAL, FRANCE, GREAT BRITAIN,
 N. AFRICA, SPAIN
 P. LUTEA (MALT.) -- IA, MISS, ALA, NC, SC, GA, FLA
 P. MACROCERAS (LINK) -- JAPAN, USSR, N.W. N. AMERICA
 P. MACROPHYLLA (H.B.K.) -- MEXICO
 P. MACRISTYLA (BENJ.) = P. INVOLUTA
 P. MAGELLANICA (CHAM. EX FRANCHET) = P. ANTARCTICA
 P. MEGASPILOEA (BUISS. ET HELDR.) = P. HIRTIFLORA VAR.
 MEGASPILOEA
 P. MEXICANA (SENNEB.) = P. GRANDIFLORA
 P. MICROERAS (CHAM.) = P. MACROCERAS
 P. MORANENSIS (H.B.K.) -- MEXICO, GUATEMALA, EL SALVADOR
 P. NANA (MART. ET GAL.) = P. CRENATILLOBA
 P. NEVADENSIS ((LINDBERG.) CASPER) -- SPAIN
 P. NORICA (REPK) = P. VULGARIS
 P. OHLINGILOBA (DC.) -- MEXICO
 P. OBTUSA (MEPH. HANKS DESCR. BENJ.) = P. ANTARCTICA
 P. OBTUSILOBA (DC.) = P. LILACINA
 P. OBTUSILOBA (ERNST) = P. AGNATA
 P. OCCYPTERA (MORH. EX BENJ.) --- NOMEN PURIUM
 P. PALLIDA (TURCZ.) = P. ALPINA
 P. PARVIFOLIA (MORHINSIS) -- MEXICO
 P. PLANIFOLIA (CHAPM.) -- FLORIDA, MISS.

- P. PRIMULA FLORA (WOOD ET GODFREY) -- ALA, GA, FLA, MISS
- P. PUMILA (MICHX.) -- TEX, LA, ALA, NC, GA, FLA, BAHAMAS
- P. PURPUREA (WILD.) = P. ALPINA
- P. RAMOSA (MIYOSHI EX YATABE) -- JAPAN
- P. REICHENBACHIANA (SCHINDLER) = P. LONGIFOLIA SSP.
REICHENBACHIANA
- P. REUTERI (GENTY) = P. GRANDIFLORA F. PALLIDA
- P. REUTERI (SCHINDLER) = P. GRANDIFLORA SSP. RUSSA
- P. ROSEI (WATSON) = P. MORANENSIS
- P. SCOPULORUM (T.S. BRANDEGEE) = P. LILACINA
- P. X SCULLYI (DRUCE) = GRANDIFLORA X VULGARIS --
IRELAND, FRANCE
- P. SIBIRICA (VEST) --- NOMEN DUBIUM
- P. SODALIIUM (FOURN.) = P. MORANENSIS

- P. SPATHULATA (LEDEBOUR) --- NOMEN DUBIUM
- P. SUBAEQUALIS (STUKFS) = P. LUSITANICA
- P. VALLISNERIIFOLIA (WEBB) -- SPAIN
- P. VALLISNERIIFOLIA LUS. BREVIIFOLIA (CASPER) -- SPAIN
- P. VARIEGATA (TURCZ.) -- SIBERIA
- P. VILLOSA (L.) -- ALASKA, CANADA, SWEDEN, NORWAY,
FINLAND, U.S.S.R.
- P. VILLOSA F. ALHIFLORA (FRÖGIN) -- N. BOREAL
- P. VILLOSA LUS. RAMOSA (CASPER) -- N. BOREAL
- P. VIOLACEA (MICHX.) = P. PUMILA
- P. VULGARIS (L.) -- EUROPE, SIBERIA, AMERICAN BOREAL
- P. VILGARIS F. ALBIDA (BEHM) NEUMANN) -- N. BOREAL
- P. VULGARIS F. BICOLOR (NORDST. EX FRIES) NEUMANN) --
N. BOREAL

NEPENTHES

In the preparation of this listing, we relied upon the early work of two great botanists, J. M. Macfarlane and B. H. Danser. This genus is especially complex to decipher taxonomically because of its polymorphous nature and the relatively few constant characters within the species. As a result, the listing bulges with synonyms which we tried our best to record for you. Hybrids present even a greater problem since much of the time, the same cross made on different occasions was given a different name, or names have been mixed and various back and secondary crosses not properly recorded. Here, we relied on various horticultural encyclopedias to give us the most consistent information. Finally, many of the Japanese books and journal papers yielded helpful clues.

Macfarlane, J.M. Nepentheaceae; in: A. Engler, Das Pflanzenreich, IV, III(Heft 36) 1908.
 --- -- -- -- -- ,Nepenthes; in: L.H. Bailey, The Standard Encyclopedia of Horticulture, IV, pp. 2122-2130. 1919.
 Danser, B.H. The Nepentheaceae of the Netherlands Indies. Bull. Jard. Bot. Buitenz. Ser. III, Vol. IX. 1928.

(JA Nazrinas and Bob Ziemer)

- N. ALATA (BLANCO) -- PHILIPPINES
- N. ALBA (RIDL.) = N. GRACILLIMA
- N. ALBOLINEATA (BAIL.) = N. MIRABILIS
- N. ALBO-MARGINATA (LOBB EX LINDL.) -- MALAYSIA, SUMATRA, BORNEO
- N. ALICAE (BAIL.) = N. GRACILIS
- N. X AMESIANA (VEITCH.) = RAFFLESIANA X HOOKERIANA
- N. AMPULLARIA (JACK) -- MALAYA, NEW GUINEA, BORNEO,
SUMATRA
- N. ANAMENSIS (MACFARLANE) -- INDOCHINA
- N. ANGUSTIFOLIA (MAST.) = N. GRACILIS
- N. ARMURSTAE (BAIL.) = N. MIRABILIS
- N. X ATRO-SANGUINEA = (DISTILLATORIA X GRACILIS) X
KMASIANA
- N. X BALFOURIANA = MIXTA X MASTERSIANA
- N. BECCARIANA (MACF.) = N. MIRABILIS
- N. BELLI -- PHILIPPINES
- N. BERNAYSII (BAIL.) = N. MIRABILIS
- N. BLANCOI (BL.) = N. ALATA
- N. BICALCARATA (HOOK.) -- BORNEO
- N. X BOISSIENSE (LECOUFLE) = GRACILIS X SUPERBA

- N. BUNGSU (KORTH.) -- SUMATRA
- N. BOSCHIANA (KORTH.) -- BORNEO
- N. BRACHYCARPA (MERR.) = N. PHILIPPINENSIS
- N. BURBIDGEAE (HOOK. F. EX HURBIDGE) -- BORNEO
- N. BURKEII (MASTERS) -- PHILIPPINES
- N. CARUNCULATA (DANSER) -- SUMATRA
- N. CELEBICA (HOOK.) = N. MAXIMA
- N. X CHELSONI (VEITCH. EX MASTERS) = DOMINII X HOOKERIANA
- N. CHOLMONDELEYI (BAIL.) = N. MIRABILIS
- N. CINCIA (MAST.) -- BORNEO
- N. CLIPEATA (DANSER) -- BORNEO
- N. X COCCINEA = HOOKERIANA X MIRABILIS
- N. CUPELANDII (MACF.) = N. ALATA
- N. X COURTHII (VEITCH.) = GRACILIS X DOMINII
- N. CURTISII (MAST.) = N. MAXIMA
- N. X CYLINDRICA (VEITCH.) = DISTILLATORIA X VEITCHII
- N. DEANIANA (MACFARLANE) -- PHILIPPINES
- N. DECURRENS (MACFARLANE) -- BORNEO
- N. DENSIFLORA (DANSER) -- SUMATRA
- N. X DICKSONIANA (LINDSAY) = RAFFLESIANA X VEITCHII