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Catalogue of the Living Collection of the Iowa State University Botany Department Greenhouses

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Catalogue of the Living Collection of the Iowa State University Botany Department Greenhouses

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The Botany Department greenhouses at Iowa State University are a rooftop facility including 17 separate houses, divided into three temperature zones. Some illuminated houses are provided to encourage good plant growth during the winter. One greenhouse is operated as a short-day facility and provided with curtained chambers for short days. Summer cooling of the greenhouses is effected by evaporative coolers.

The living teaching and research collections include over 800 plant taxa, ranging from bryophytes to orchids and composites. Propagation materials, as available, may be provided to other educational institutions for teaching or research.

INDEX DESCRIPTORS: Greenhouse design, plant growth conditions, species list

The Iowa State University Botany Department has long maintained greenhouse collections for research and teaching. The entire collection was moved to a new greenhouse facility on the roof of Bessey Hall in 1967. The rooftop facility has ca 10,000 square feet (920 square meters) under glass, plus ca 2,000 square feet (180 square meters) of headhouse and work area.

The glassed area is divided into an east range, nominally maintained at 60°F (16°C), a south range at 80°F (27°C), and a west range at 70°F (21°C). Summer temperature control is aided by evaporative coolers located on the roof.

The area under glass is divided into 17 individual houses, which can be maintained under differing conditions. Some houses now have illumination provided by high intensity sodium lights, so that good growth of plants can now be maintained during the short-day winter season. A number of smaller houses are designated for special research projects. One house is utilized primarily as a short-day facility for plants needing such conditions.

The department maintains an extensive teaching and research collection of over 800 taxa (see Catalogue). The collection includes a number of important economic plants, including cacao, coffee, sugarcane, mahogany, guava, mango, New Zealand flax, vanilla, bamboos, papyrus, pomegranate, annatto, bananas, balsa and others. The taxa represented in the collection range from bryophytes and *Psilotum* to grasses and composites. Some of the rarities included are "blooming" *Gnetum* and *Welwitschia*. Taxonomy and related courses are taught using living materials with few exceptions. One house is reserved mostly for the production of flowering material for classes during the winter season. This house is now illuminated with high intensity sodium lights, so that the plants can bloom throughout the winter.

Since greenhouses are usually constructed on the ground, we anticipated problems with a rooftop greenhouse. Surprisingly few have occurred. The floor is concrete, but is underlaid by a thick layer of tarred roofing. While the concrete can crack, the tarry material

beneath serves as a sealant, and thus leaks to the upper floor of the building have not developed. The fact that the greenhouse is above the level of the other buildings and trees allows it to get more light than many ground-level houses. Soil needed for the plants must be brought from basement storage by elevator to the greenhouse in garbage cans, where it is pasteurized by steam in the cans. Trash must similarly be removed via elevator. Since the quantity of material is not great, this is only a minor inconvenience. Access to the roof of the greenhouse to apply shading material during the spring and summer is somewhat difficult. The design of the glass roof, with a trough at the center, has caused snow loading during severe winter storms and at times resulted in glass breakage.

All plants at the present are pot-grown, with the exception of a few large woody plants that are grown in wooden or plastic tubs. Special moist chambers are provided for the propagation of cuttings. Chambers for the growth of tropical rain forest plants are humidified by cool mist vaporizers filled with distilled water.

The Botany greenhouses are open for students and visitors from 8:30 A.M. to 4:00 P.M. on weekdays. We cooperate with other educational institutions in providing propagation materials for teaching or research. Copies of the catalogue of the collection as it is updated will be available upon request.

CATALOGUE OF THE LIVING COLLECTION

The plants on the following catalogue are currently being grown in the greenhouses for teaching and research purposes. Not included are numerous species grown temporarily for special purposes. It is to be expected that some species will die out and others will be added from time to time. We will attempt to provide propagation material to other institutions upon request when facilities and funds permit this, and we encourage exchanges with other educational institutions.

Nomenclature for cultivated plants primarily follows *Hortus Third* (Bailey Hortorium Staff, 1976).

HEPATOPHYTA

Conocephalum conicum (L.) Dum.
Lunularia cruciata (L.) Dum.
Marchantia polymorpha L.
Ricciocarpus natans (L.) Corda

BRYOPHYTA

Funaria hygrometrica Hedw.
Leptobryum pyriforme (Hedw.) Wils.

PSILOTOPHYTA

Psilotum nudum Swartz.
Psilotum sp. (hybrid)

LYCOPODIOPHYTA

Isoetes sp.

Lycopodium lucidulum Michx.

Lycopodium sp.

Selaginella pallescens (K. Presl.) Spring

Selaginella sp.

EQUISETOPHYTA

Equisetum diffusum
Equisetum hyemale L.
Equisetum scirpoides Michx.
Equisetum triseriale
Equisetum variegatum Schleich.

PTERIDOPHYTA

ADIANTACEAE

Adiantum capillus-veneris L.

Pellaea rotundifolia (G. Forst.) Hook.

Pteris cretica L.

Pteris vittata L.

ASPLENIACEAE

Asplenium bulbiferum G. Forst.

Asplenium nidus L.

Asplenium sp.

Cyrtomium falcatum (L.f.) K. Presl.

ATHYRIACEAE

Cystopteris fragilis (L.) Bernh.

BLECHNACEAE

Doodia caudata (Cav.) R. Br.

Elaphoglossum sp.

- Simmondsia chinensis* (Link.) C. K. Schneid.
- CACTACEAE**
- Ariocarpus fissuratus* (Engelm.) K. Schum.
Astrophytum myrtilloides (Salm-Dyck) Lem.
Carnegiea gigantea Britt. & Rose
Cereus peruvianus (L.) Mill.
Chamaecereus silvestrii (Speg.) Britt. & Rose
Oryphantha vivipara (Nutt.) Britt. & Rose
Echinocereus sp.
Echinopsis sp.
Epiphyllum oxypetalum (DC.) Haw.
Hattoria salicornioides (Haw.) Britt. & Rose
Leptocereus thurberi (Engelm.) Britt. & Rose
Mammillaria elongata DC.
Nopalxochia ackermannii (Haw.) F. M. Knuth
Opuntia ficus-indica (L.) Mill.
Opuntia sp.
Pereskia aculeata Mill.
Pereskia diaz-romeroana Cardenas
Pereskia grandifolia Haw.
Pereskopsis sp.
Rhipsalis capilliformis A. Web.
Rhipsalis paradoxa Salm-Dyck
Schlumbergera bridgesii (Lem.) Lofgr.
- CAMPANULACEAE**
- Campanula carpatica* Jacq. cv. "blue chips"
Campanula isophylla Moretti
Campanula medium L.
Delissea rhytidisperma H. Mann.
Hippobroma longiflora (L.) G. Don
Lobelia erinus L.
Lobelia inflata L.
Lobelia siphilitica L.
- CAPPARIDACEAE**
- Capparis spinosa* L. var. *inermis*
- CAPRIFOLIACEAE**
- Symphoricarpos orbiculatus* Moench.
Viburnum prunifolium L.
- CARYOPHYLLACEAE**
- Agrostemma githago* L.
Cerastium nutans Raf.
Cerastium stellatum Herb. ex Colla
Dianthus armeria L.
Dianthus chinensis L.
Dianthus sp.
Gypsophila elegans Bieb.
Sagina decumbens (Ell.) T. & G.
- CASUARINACEAE**
- Casuarina equisetifolia* J. R. Forst. & G. Forst.
- CELASTRACEAE**
- Catba edulis* (Vahl) Forssk. ex. Endl.
- CHENOPODIACEAE**
- Beta vulgaris* L.
Chenopodium album L.
Chenopodium ambrasioides L.
- CLEOMACEAE**
- Cleome spinosa* Hort.
- CLUSIACEAE**
- Clusia* sp.
- CNEORACEAE**
- Cneorum tricoccon* L.
- COMBRETACEAE**
- Conocarpus erectus* L.
Laguncularia racemosa (L.) Gaertn.f.
- COMPOSITAE**
- Aster novae-angliae* L.
Coreopsis sp.
Cosmos bipinnatus Cav.
Cosmos sulphureus Cav.
Dahlia sp. (hybrid)
Dimorphotheca pluvialis (L.) Moench.
Dimorphotheca sp.
Dyssodia tenuisloba (DC.) B. L. Robinson
Felicia amelloides (L.) Voss
Gaillardia aristata Pursh
Gerbera jamesonii H. Bolus ex Hook.f.
Gynura aurantiaca (Blume) DC.
- Mikania apiifolia* DC.
Ratibida sp.
Senecio articulatus (L.f.) Schultz-Bip.
Senecio confusus (DC.) Britten
Senecio herreianus Dinter
Senecio jacobsonii L.
Senecio macroglossus DC. cv. *variegatum*
Senecio mikanioides Otto
Senecio serpens Rowley
Tagetes sp. (hybrid)
- CONVOLVULACEAE**
- Convolvulus aquaticus* Walt.
Convolvulus sepium L.
Ipomoea sp.
- CORIARIACEAE**
- Coriaria myrtifolia* L.
Coriaria nepalensis Wall.
- CORNACEAE**
- Aucuba japonica* Thunb.
Cornus stolonifera Michx.
- CORYNOCARPACEAE**
- Corynocarpus laevigata* J. R. Forst. & G. Forst.
- CRASSULACEAE**
- Crassula argentea* Thunb.
Crassula falcata H. Wendl.
Crassula perforata L.
Crassula tetragona L.
Graptopetalum paraguayense (N. E. Br.) Walth.
Kalanchoe beauverdi Hamet.
Kalanchoe beharensis Drake
Kalanchoe bloisfeldiana Poelln.
Kalanchoe daigremontiana Hamet. & Perr.
Kalanchoe fedtschenkoi Hamet. & Perr.
Kalanchoe pinnata (Lam.) Pers.
Kalanchoe tomentosa Bak.
Kalanchoe tubiflora (Harv.) Hamet.
Kalanchoe sp.
Pachyphytum compactum Rose
Sedum spectabile Boreau
Sedum sp.
Sempervivum sp.
- CRUCIFERAE**
- Brassica juncea* (L.) Coss.
Brassica perviridis Bailey
Iberis amara L.
Lobularia maritima Desv.
Lunaria annua L.
Nasturtium officinale R. Br.
- CUCURBITACEAE**
- Cucumis* sp.
Cucurbita pepo L.
Echallium elaterium (L.) A. Rich.
Luffa aegyptiaca Mill.
- DATISCEAE**
- Datisca cannabina* L.
- DIDIEREACEAE**
- Alluaudia procera* Drake
- DILLENIACEAE**
- Dillenia indica* L.
- DIONAEACEAE**
- Dionaea muscipula* Ellis.
- DIPSACACEAE**
- Scabiosa atropurpurea* L.
- DROSERACEAE**
- Drosera capensis* L.
Drosera spatulata Labill
- EBENACEAE**
- Diospyros ebenaster* Retz.
Diospyros virginiana L.
- ELAEAGNACEAE**
- Elaeagnus* sp.
- ERICACEAE**
- Rhododendron* sp.
- EUPHORBIACEAE**
- Acalypha wilkesiana* Mull. Arg.
Breynia disticha J. R. Forst. & G. Forst.
- Codiaeum variegatum* (L.) Blume
Euphorbia dentata Michx.
Euphorbia esula L.
Euphorbia helioscopia L.
Euphorbia ingens E. H. Mey.
Euphorbia lactea Haw.
Euphorbia lathyris L.
Euphorbia leucophylla Benth.
Euphorbia maculata L.
Euphorbia mamillaris L.
Euphorbia milii Desmoul. cv. *splendens*
Euphorbia pseudocactus A. Berger
Euphorbia ramipressa Croiz.
Euphorbia tirucalli L.
Euphorbia triangularis Desf.
Euphorbia sp.
Jatropha spatulata Muell. ex DC.
Manihot esculenta Crantz
Pedilanthus tithymaloides (L.) Poit.
Phyllanthus niruri L.
Ricinus communis L.
Securinega suffruticosa (Pall.) Rehd.
Synadenium grantii Hook.f. cv. *rubra*
- FAGACEAE**
- Fagus grandifolia* Ehrh.
Quercus marilandica Muench.
Quercus phellos L.
Quercus rubra L.
- FOUQUIERIACEAE**
- Fouquieria columnaris* Kellogg
Fouquieria splendens Engelm.
- FUMARIACEAE**
- Adlumia fungosa* (Ait.) Greene ex BSP.
Dicentra eximia (Ker) Torr.
- GENTIANACEAE**
- Eustoma grandiflorum* (Raf.) Shinn.
Exacum affine Balf.f.
Gentiana sp.
Menyanthes trifoliata L.
- GERANIACEAE**
- Erodium cicutarium* (L.) L'Her
Pelargonium X hortorum L. H. Bailey
Pelargonium peltatum (L.) L'Her ex Ait.
Pelargonium sp.
- GESNERIACEAE**
- Aeschynanthus narmoratus* F. Moore
Aeschynanthus pulcher (Blume) G. Don
Alloplectus nummularia (Hanst.) Wiehl.
Columnnea birta Klotzsch & Hanst.
Columnnea tulae Urb.
Didymocarpus kerrii Craib
Episcia cupreata (Hook.) Hanst.
Episcia dianthiflora H. E. Moore & R. G. Wils.
Episcia reptans Mart.
Kohleria bogotensis (Nichols.) Fritsch
Nautilocalyx bullatus (Lem.) T. Sprague
Ramonda myconi L.
Saintpaulia ionantha H. Wendl.
Sinningia cardinalis (Lehm.) H. E. Moore
Streptocarpus X hybridus Voss cv. "wiesmoor"
- GOODENIACEAE**
- Scaevola* sp.
- HALORAGACEAE**
- Myriophyllum brasiliense* Cambess.
- HAMAMELIDACEAE**
- Liquidambar styraciflua* L.
- HYDROPHYLLACEAE**
- Nemophila menziesii* Hook. & Arn.
Phacelia sp.
- HYPERICACEAE**
- Hypericum leschenaultii* Choisy
Hypericum punctatum Lam.
- JUGLANDACEAE**
- Carya illinoensis* (Wang.) C. Koch
Juglans nigra L.
- LABIATAE**
- Coleus blumei* Benth.
Iboza riparia (Hochst.) N. E. Br.

Sasa pygmaea (Miq.) Asch. & Graebn.
Schizachyrium salzmannii (Trin.) Nash
Setaria palmifolia (J. König) Stapf.
Shibataea kumasaca (Zoll. ex Steud.) Nakai
Sinarundinaria nitida (Mitford) Nakai
Sorghastrum nutans (L.) Nash
Sporobolus indicus (L.) R. Br.
Stenotaphrum secundatum (Walt.) O. Ktze.
Strepidium distichophyllum Sods. & Cald.
Streptochaeta sodiroana Hack.
Themeda triandra Forssk.
Tripsacum dactyloides L. var. *hispidum* Hitchc.
Tripsacum maizar E. Hernandez X. & Randolph
Vetiveria zizanioides (L.) Nash
Zea diploperennis Iltis & Doebley
Zea mexicana (Schrud.) Reeves & Mangelsd.
Zea perennis (Hitchc.) Reeves & Mangelsd.
Zeugites pittieri Hack.
Zoysia japonica Steud.

HELICONIACEAE

Heliconia aurantiaca Ghiesbr. ex Lem.

HYDROCHARITACEAE

Elodea densa (Planch.) Casp.

IRIDACEAE

Belamcanda chinensis (L.) DC.
Freesia sp.
Lapeirousia laxa (Thunb.) N. E. Br.
Neomarica longifolia (Link & Otto) T. Sprague
Sisyrinchium bellum S. Wats.

JUNCACEAE

Juncus tenuis Willd.
Juncus sp.
Luzula sp.

JUNCAGINACEAE

Triglochin maritima L.

LEMNACEAE

Lemna minor L.
Lemna trisulca L.
Spirodela polyrrhiza (L.) Schleid.

LILACEAE

Allium tuberosum Rottle ex K. Spreng.
Aloe barbadensis Mill.
Aloe ciliaris Haw.
Aloe mitriformis Mill.
Aloe saponaria (Ait.) Haw.
Aloe striata Haw.
Asparagus densiflorus (Kunth) Jessop
Asparagus macowanii Bak.
Asparagus setaceus (Kunth) Jessop
Asphodelus fistulosus L.
Chlorophytum sp.
Cordylone terminalis (L.) Kunth
Dasyllirion leiophyllum Engelm.
Drimiopsis maculata Lindl. ex Paxt.
Eucomis undulata (Mill.) Chitt.
Gasteria trigona Haw.
Hemerocallis sp.
Ledebouria socialis (Bak.) Jessop
Nothoscordum bivalve (L.) Britt.
Nothoscordum fragrans (Ait.) Nichols.
Nothoscordum sp.
Ornithogalum caudatum Ait.
Ornithogalum saundersiae Bak.
Pleomele thalictroides N. E. Br.
Ruscus aculeatus L.
Sansevieria cylindrica Bojer
Sansevieria parva N. E. Br.
Sansevieria trifasciata Prain.
Sansevieria trifasciata cv. *bahnii*
Schizobasopsis volubilis Machb.
Tricyrtis formosana Bak.
Tulbaghia violacea Harv.
Tulipa cv.

MARANTACEAE

Calathea ornata (Linden) Korn.
Ctenanthe oppenheimiana (E. Morr.) K. Schum. cv. *tricolor*
Maranta leuconeura E. Morr.
Maranta leuconeura cv. *erythronura*

Maranta leuconeura cv. *kerchoviana*

MUSACEAE

Musa nana Lour.
Ravenala madagascariensis Sonn.
Sirelitzia reginae Ait.

NAJADACEAE

Najas sp.

ORCHIDACEAE

Arundina graminifolia (D. Don) Hochr.
Bletilla striata (Thunb.) Rchb.f.
Catasetum pileatum Rchb.f.
Catasetum platyglossum Schltr.
Cattleya skinneri Batem.
Cattleya sp.
Cymbidium sp.
Dendrobium minax Reichb.
Epidendrum cinnabarinum Salzm. ex Lindl.
Epidendrum ibaguense HBK.
Haemaria discolor Lindl. cv. *dausoniana*
Paphiopedilum insigne (Wall.) Pfitz.
Phaius tankervilleae (Ait.) Blume
Saccolabium bellinum (Ktze.) Reichb.
Stanhopea wardii Lodd. ex Lindl.
Vanilla barbellata Reichb.
Vanilla planifolia Andr.

PALMAE

Chamaedorea elegans Mart.
Phoenix loureirii Kunth
Rhapis excelsa (Thunb.) A. Henry
Washingtonia filifera (L. Linden) H. Wendl.

PONTEDERIACEAE

Eichhornia crassipes (Mart.) Solms-Laub.

POTAMOGETONACEAE

Potamogeton sp.

VELLOZIACEAE

Barbacenia coronata P. F. Ravenna

XANTHORRHOACEAE

Xanthorrhoea arborea R. Br.

ZINGIBERACEAE

Alpinia purpurata (Vieill.) K. Schum.
Anomum cardomum L.
Kaempferia rotunda L.
Zingiber spectabile Griff.

MAGNOLIOPHYTA: MAGNOLIOPSIDA

ACANTHACEAE

Aphelandra squarrosa Nees
Crossandra infundibuliformis (L.) Nees
Hemigraphis alternata (Burm.f.) T. Anderson
Hygrophila difformis (L.f.) Blume
Hypoestes phyllostachya Bak.
Justicia brandegeana Wassh. & L. B. Sm.
Ruellia devotiana Hort. Makoy ex E. Morr.
Ruellia graecizans Backer
Ruellia makoyana Hort. Makoy ex Closon
Ruellia strepens L.
Strobilanthes dyanus M. T. Mast

ACERACEAE

Acer circinatum Pursh
Acer rubrum L.
Acer saccharinum L.
Acer saccharum Marsh.

AIZOACEAE

Aptenia cordifolia (L.f.) Schwart.
Carpobrotus edulis (L.) L. Bolus
Delosperma sp.
Faucaria sp.
Lampranthus bicolor N. E. Br.
Lampranthus emarginatus (L.) N.E. Br.
Lithops lesliei (N. E. Br.) N. E. Br. var. *minor*
Lithops pseudotruncatella (A. Berger) N. E. Br.
Pleiospilus sp.
Rhombophyllum nelii Schwart.

AMARANTHACEAE

Acnida tamariscina (Nutt.) Wood.
Amaranthus retroflexus L.
Amaranthus tricolor L.
Celosia argentea L.

ANACARDIACEAE

Mangifera indica L.
Rhus copallina L.
Rhus typhina L.

ANNONACEAE

Asimina triloba (L.) Dunal.

APOCYNACEAE

Allamanda cathartica L.
Catharanthus roseus (L.) G. Don
Mandevilla X amabilis (Hort. Backh.) Dress.
Nerium oleander L.
Pachypodium lamerei Drake
Plumeria rubra L.
Tabernaemontana divaricata (L.) R. Br.
Vinca major L. cv. *variegata*

AQUIFOLIACEAE

Ilex decidua Walt.
Ilex opaca Ait.
Ilex paraguariensis St.-Hil.

ARALIACEAE

Brassia actinophylla Endl.
X Fatsiedera lizei (Cochet) Guillaume
Hedera helix L.

ARISTOLOCHIACEAE

Aristolochia elegans M. T. Mast

ASCLEPIADACEAE

Araujia sericifera Brot.
Asclepias curassavica L.
Ceropegia sandersonii Hook.f.
Ceropegia woodii Schlechter
Hoya bandaensis Schlechter
Hoya carnosa (L.f.) R. Br.
Hoya purpurea Hook.
Huernia sp.
Periploca graeca L.
Stapelia gigantea N. E. Br.
Stapelia variegata L.
Stephanotis floribunda Brongn.

AVICENNIACEAE

Avicennia nitida Jacq.

BALSAMINACEAE

Impatiens balsamina L.

BASELLACEAE

Anredera cordifolia (Ten.) Steenis
Basella alba L. cv. *rubra*

BEGONIACEAE

Begonia boweri Ziesenh.
Begonia hiemalis Fotsch.
Begonia cv. "immense"
Begonia masoniana Irmsch
Begonia mazae Ziesenh.
Begonia X rex Putz.
Begonia salicifolia A. DC.
Begonia X semperflorens-cultorum Hort.
Begonia serratifolia Irmsch
Begonia sp.

BETULACEAE

Alnus glutinosa (L.) Gaertn.
Betula pubescens J. F. Ehrh.

BIGNONIACEAE

Clytostoma callistegioides (Cham.) Bur.
Incarvillea delavayi Bur. & Franch.
Macfadyena unguis-cati (L.) A. Gentry
Spathodea campanulata Beauv.

BIXACEAE

Bixa orellana L.

BOMBACACEAE

Ceiba pentandra (L.) Gaertn.
Ocroma lagopus Sw.

BORAGINACEAE

Anchusa azurea Mill.
Borago officinalis L.

BUDDLEJACEAE

Buddleja diversifolia Tenore

BUXACEAE

Buxus microphylla L.

CYATHEACEAE

Altophila australis R. Br.
Dicksonia antarctica Labill

DAVALLIACEAE

Davallia mariesii T. Moore
Davallia sp.
Nephrolepis biserrata (Swartz) Schott. cv. *furcata*
Nephrolepis cordifolia (L.) K. Presl.
Nephrolepis exaltata (L.) Schott.
Nephrolepis exaltata cv. *bostoniensis*

MARSILEACEAE

Marsilea quadrifolia L.
Pilularia americana A. Br.
Regnellidium diphyllum Lindm.

POLYPODIACEAE

Camptoneuron angustifolium (Sw.) Fee
Drynaria sp.
Microgramma heterophyllum (L.) Wherry
Platynerium sp.
Polypodium aureum L.
Polypodium musifolium Blume
Polypodium polycarpon (L.) Swartz.

SALVINIACEAE

Azolla mexicana Presl.
Salvinia sp.

SCHIZAEACEAE

Lygodium japonicum Swartz.
Lygodium sp.

THELYPTERIDACEAE

Thelypteris normalis (C. Chr.) Moxley
Thelypteris sp.

THYRSOPTERIDACEAE

Cibotium chamissoi Kaulf.

VITTARIACEAE

Ananthacorus angustifolius (Sw.) Underw. & Maxon
Antrophyum ensiforme Hook.
Antrophyum lineatum (Sw.) Kaulf.
Vittaria dimorpha C. Muell.
Vittaria graminifolia Kaulf.
Vittaria lineata (L.) J.E. Sm.
Vittaria minima (Baker) Benedict
Vittaria remota Fee

CYCADOPHYTA

CYCADACEAE

Bowenia serrulata Hook. ex Hook.f.
Ceratozamia hildae Landry & Wilson
Ceratozamia mexicana Brongn.
Cycas revoluta Thunb.
Lepidozamia peroffkiana Regel.
Macrozamia communis L. A. S. Johnson
Zamia floridana A. DC.
Zamia latifolia Lodd.
Zamia pumila L.

GINKGOPHYTA

GINKGOACEAE

Ginkgo biloba L.

PINOPHYTA

ARAUCARIACEAE

Araucaria araucana (Bertol.) O. Ktze.
Araucaria bidwillii Hook.
Araucaria excelsa R. Br.

CUPRESSACEAE

Chamaecyparis lawsoniana (A. Murr.) Parl.
Chamaecyparis nootkatensis (D. Don) Spach
Chamaecyparis thyoides (L.) BSP.
Juniperus deppeana Steud.
Juniperus virginiana L.
Libocedrus decurrens Torr.
Thuja occidentalis L.
Thuja plicata J. Donn ex D. Don

PINACEAE

Abies lasiocarpa (Hook.) Nutt.
Larix laricina (DuRoi) K. Koch
Picea mariana (Mill.) BSP.
Picea rubens Sarg.
Pinus contorta Dougl. ex Loud.

Pinus echinata Mill.

Pinus palustris Mill.

Pinus rigida Mill.

Tsuga canadensis (L.) Carr.

Tsuga heterophylla (Raf.) Sarg.

PODOCARPACEAE

Podocarpus macrophyllum L'Her ex Pers.

TAXACEAE

Taxus brevifolia Nutt.

TAXODIACEAE

Metasequoia glyptostroboides H.H. Hu & Cheng.
Sequoia sempervirens (D. Don) Endl.
Taxodium distichum (L.) L. Rich

GNETOPHYTA

EPHEDRACEAE

Ephedra distachya L.

GNETACEAE

Gnetum gnemon L.

WELWITSCHIACEAE

Welwitschia mirabilis Hook.f.

MAGNOLIOPHYTA: LILIOPSIDA

AGAVACEAE

Agave ferdinand-regis A. Berger
Agave lehmannii Torr.
Agave lophantha Schiede. cv. *poselgeri*
Agave sisalana Perrine
Beaucarnea recurvata Lem.
Cordylone terminalis (L.) Kunth cv. *tricolor*
Dracaena cincta Bak.
Dracaena marginata Lam.
Dracaena sanderiana Hort. Sander ex M. T. Mast
Furcraea foetida (L.) Haw.
Furcraea hexapetala (Jacq.) Urb.
Hesperaloe parviflora (Torr.) J. Coult.
Phormium tenax J.R. Forst. and G. Forst.
Yucca aloifolia L.

ALISMACEAE

Alisma plantago-aquatica L.
Sagittaria sagittifolia L.
Sagittaria subulata (L.) Buchenau
Sagittaria sp.

AMARYLLIDACEAE

Agapanthus africanus Hoffmegg.
Alstroemeria sp.
Amaryllis sp.
Anigozanthos manglesii D. Donn
Clivia miniata Regel.
Crinum jagus (J. Thoms.) Dandy
Crinum sp.
Eucharis grandiflora Planch. & Linden
Habranthus tubispatus (L'Her) Traub.
Haemanthus albisolus Jacq.
Haemanthus multiflorus Martyn
Hymenocallis narcissiflora (Jacq.) Macbr.
Hymenocallis speciosa (Salisb.) Salisb.
Hymenocallis sp.
Lycoris squamigera Maxim.
Zephyranthes sp.

ARACEAE

Aglanema commutatum Schott.
Aglanema modestum Schott. ex Engl.
Anthurium crassinerivum (Jacq.) G. Don
Anthurium polychistum R.E. Schult. & Idrobo
Anthurium scandens (Aubl.) Engl.
Dieffenbachia picta Schott.
Dieffenbachia seguine Schott.
Epipremnum aureum (Linden & Andre) Bunt.
Monstera deliciosa Liebm.
Monstera obliqua (Miq.) Walp.
Philodendron bipinnatifidum Schott.
Pistia stratiotes L.
Spathiphyllum cv. "clevelandii"
Syngonium podophyllum Schott.
Xanthosoma sagittifolium (L.) Schott.
Zantedeschia aethiopica Spreng.

BROMELIACEAE

Abromeitiella abstrusa Castellanos

Aechmea caudata Lindm. cv. *variegata*

Aechmea cylindrata Lindm.

Aechmea X maginatii

Billbergia distachya (Vell.) Mez.

Billbergia leptopoda L.B. Sm.

Billbergia nutans H. Wendl.

Billbergia pyramidalis (Sims) Lindl.

Billbergia saundersii Hort. ex C. Koch X *pyramidalis*

Cryptanthus habianus L. B. Sm.

Cryptanthus biuittatus (Hook.) Regel cv. *minor*

X *Cryptbergia rubra* (Mol.) Skeels.

Neoregelia spectabilis (T. Moore) L.B. Sm.

Tillandsia fasciculata Swartz. cv. *clavispica*

Tillandsia recurvata (L.) L. Ball

Tillandsia usneoides L.

Vriesia carinata Wawra

BUTOMACEAE

Hydrocleys commersonii Rich.

CANNACEAE

Canna X orchiodes L.H. Bailey

COMMELINACEAE

Anilema sp.
Commelina appendiculata C.B. Clark
Commelina communis L.
Hadrodemas warszewiczianum (Kunth & Bouche)
H.E. Moore
Palisota barteri Hook.f.
Rhoeo spathacea Hance
Setcreasea pallida Rose
Tradescantia bloisfeldiana Mildb.
Tradescantia ohienensis Raf.
Tradescantia sillamontana Matuda
Tradescantia velutina Matuda
Tradescantia sp.
Tripogandra multiflora (Sw.) Steyererm.
Zebrina pendula Schnitzl.

CYPERACEAE

Cyperus alternifolius L.
Cyperus papyrus L.
Cyperus sp.
Dulichium arundinaceum (L.) Britt.
Eleocharis quadrangulata (Michx.) R. & S.
Eleocharis sp.
Scirpus acutus Muhl.
Scirpus fluviatilis (Torr.) Gray

FLAGELLARIACEAE

Flagellaria indica L.

GRAMINEAE

Avena fatua L.
Bambusa arundinacea (Retz.) Willd.
Bambusa longispiculata Gamble ex Brandis.
Bambusa multiplex (Lour.) Rauschel.
Chionachne koenigii (Spreng.) Thw.
Cbloris sp.
Chusquea coronalis Sods. & Cald.
Coix lacryma-jobi L.
Cryptochloa granulifera Swallen
Cymbopogon citratus (DC. ex Nees) Stapf.
Distichlis stricta (Torr.) Rydb.
X *Elybordeum iowense* Pohl
Elymus canadensis L.
Eragrostis curvula (Schrad.) Nees
Hymenachne amplexicaulis (Rudge) Nees
Lithachne humilis Sods. & Cald.
Lithachne pauciflora (Sw.) Beauv.
Melinis minutiflora Beauv.
Oplismenus hirtellus (L.) Beauv.
Oryza sativa L.
Panicum grande Hitchc. & Chase
Pariana parvispica Pohl
Pennisetum sp.
Phaenosperma globosa Munro ex Benth.
Pharus latifolia L.
Phragmites australis (Cav.) Trin. ex Steud.
Phyllostachys aurea Carriere ex A. Riviere &
C. Riviere
Phyllostachys nigra (Lodd. ex Lindl.) Munro
Pseudosasa japonica (Sieb. & Zucc. ex Steud.) Mak.
Saccharum officinarum L.

- Lamiasium galeobdolon* (L.) Ehrend. & Polatsch.
Lavandula stoechas L.
Lavandula sp.
Mentha X piperita L.
Mentha requienii Benth.
Mentha sp.
Moluccella laevis L.
Nepeta cataria L.
Ocimum basilicum L.
Plectranthus nummularius Briq.
Plectranthus oertendahlit T. C. E. Fries.
Plectranthus tomentosus Benth. ex E. H. Mey.
Rosmarinus officinalis L.
Salvia coccinea Juss. ex J. Murr.
Salvia sp.
- LAURACEAE**
Laurus nobilis L.
Lindera benzoin (L.) Blume
Persea americana Mill.
Sassafras albidum (Nutt.) Nees
Umbellularia californica (Hook. & Arn.) Nutt.
- LECYTHIDACEAE**
Couropita guianensis Aubl.
- LEGUMINOSAE**
Acacia cornigera (L.) Willd.
Acacia farnesiana (L.) Willd.
Acacia sp.
Albizia julibrissin Durazz.
Amorpha sp.
Apios americana Medic.
Astragalus cicer L.
Baptisia australis (L.) R. Br.
Caesalpinia pulcherrima (L.) Swartz.
Cajanus cajan (L.) Huth.
Calliandra emarginata (Humb. & Bonpl.) Benth.
Calliandra Tweedii Benth.
Canavalia sp.
Cassia occidentalis L.
Cassia tora L.
Cercis canadensis L.
Cladrastis lutea (Michx.f.) C. Koch
Coronilla varia L.
Crotalaria retusa L.
Dalea leporina (Ait.) Kearney & Peebles
Erythrina herbacea K. Spreng.
Genista tinctoria L.
Indigofera australis Willd.
Laburnum X watereri (Kirchn.) Dipp.
Lathyrus latifolius L.
Leucaena leucocephala (Lam.) de Wit
Lotus corniculatus L.
Lupinus polyphyllus Lindl.
Machaerium sp.
Medicago sativa L.
Melilotus alba Desr.
Melilotus officinalis (L.) Pall.
Neonotonia verdicourtii Isely
Neonotonia wightii (Arnott) Lackey
Pachyrhizus erosus (L.) Urb.
Parkinsonia aculeata L.
Psophocarpus tetragonolobus (L.) DC.
Psoralea tenax Lindl.
Robinia pseudoacacia L.
Trifolium pratense L.
Trifolium repens L.
Vicia villosa Roth.
- LINACEAE**
Linum perenne L.
Linum sp.
- LYTHRACEAE**
Cuphea heterophylla Benth.
Cuphea hyssopifolia HBK.
Cuphea platycentra A. DC.
Heimia salicifolia (HBK.) Link
Lagerstroemia indica L.
- MALPIGHIACEAE**
Malpighia coccigera L.
- MALVACEAE**
Abelmoschus esculentus (L.) Moench.
- Gossypium herbaceum* L.
Hibiscus mutabilis L.
Hibiscus trionum L.
Lavatera trimestris L.
Lebronnecia kokoioides F. R. Fosberg
Malva sylvestris L.
Malvaviscus arboreus Cav.
Thespesia populnea (L.) Soland ex Correa.
- MELASTOMACEAE**
Heterocentron elegans (Schlechtend.) O. Ktze.
- MELIACEAE**
Citadessa baccifera Miq.
Melia azedarach L.
Swietenia macrophylla King
- MORACEAE**
Broussonetia papyrifera (L.) Vent.
Dorstenia contrajerva L.
Ficus benghalensis L.
Ficus benjamina L.
Ficus carica L.
Ficus deltoidea Jack
Ficus elastica Roxb. ex Hornem.
Ficus elastica cv. *variegata*
Ficus lyrata Ward.
Ficus macrophylla Desf. ex Pers.
Ficus mysorensis B. Heyne ex Roth.
Ficus pumila L.
Ficus sagittata Vahl
- MYRSINACEAE**
Ardisia crispata (Thunb.) A. DC.
Ardisia escallonioides Cham. & Schlechtend.
Ardisia polyccephala Wall.
- MYRTACEAE**
Callistemon phoeniceus Lindl.
Eucalyptus crebra F. J. Muell.
Eucalyptus viminalis Labill
Eucalyptus sp.
Eugenia uniflora L.
Myrtus communis L. cv. *microphylla*
Psidium guajava L.
Psidium littorale Raddi. cv. *longipes*
- NEPENTHACEAE**
Nepenthes hookeriana Lindl.
Nepenthes X superba B. S. Williams.
Nepenthes sp.
- NOLANACEAE**
Nolana paradoxa Lindl.
- NYCTAGINACEAE**
Bougainvillea glabra Choisy
- NYMPHAEACEAE**
Nymphaea X daubeniana Hort ex O. Thomas
- NYSSACEAE**
Nyssa sylvatica Marsh.
- OLEACEAE**
Fraxinus americana L.
Ligustrum japonicum Thunb.
Olea europaea L.
- ONAGRACEAE**
Fuchsia corymbiflora Ruiz & Pav.
Fuchsia sp.
Oenothera cheiranthifolia Hornem. ex K. Spreng.
Oenothera fruticosa L.
Oenothera glazoviana Micheli
- OXALIDACEAE**
Biophytum sensitivum (L.) DC.
Oxalis deppei Lodd. ex Sweet
Oxalis pes-caprae L.
- PAPAVERACEAE**
Hunnemannia fumariifolia Sweet
- PASSIFLORACEAE**
Adenia digitata Burt-Davy
Passiflora caerulea L.
Passiflora capsularis L.
Passiflora coriacea Juss.
Passiflora incarnata L.
- PHYTOLACCACEAE**
Phytolacca americana L.
- Rivina humilis* L.
- PIPERACEAE**
Peperomia argyreia E. Morr.
Peperomia caperata Yuncck.
Peperomia caperata cv. "emerald ripple"
Peperomia clusifolia (Jacq.) Hook.
Peperomia dahlstedtii A. C. DC.
Peperomia deppeana Schlechtend. & Cham.
Peperomia fraseri A. C. DC.
Peperomia griseoargentea Yuncck.
Peperomia humilis A. Dietr.
Peperomia incana (Haw.) Hook.
Peperomia meridana Yuncck.
Peperomia obtusifolia (L.) A. Dietr.
Peperomia persicifolia (Jacq.) HBK.
Peperomia rotundifolia (L.) HBK. var. *pilosior*
Peperomia rubella (Haw.) Hook.
Peperomia scandens Ruiz & Pav. cv. *variegata*
Peperomia subpeltata A. C. DC.
Peperomia trinervis Ruiz & Pav.
Piper crocatum Ruiz & Pav.
Piper kadsura (Choisy) Ohwi
Piper nigrum L.
Piper sp.
- PITTOSPORACEAE**
Pittosporum tobira (Thunb.) Ait.
- PLANTAGINACEAE**
Plantago lanceolata L.
Plantago rugelii Dcne.
- PLATANACEAE**
Platanus occidentalis L.
- POLEMONIACEAE**
Pbiox drummondii Hook.
Polemonium caeruleum L.
- POLYGONACEAE**
Antigonon leptopus Hook. & Arn.
Coccoloba uvifera (L.) L.
Fagopyrum esculentum Moench.
Homalocladium platycladum (F. J. Muell.) L. H. Bailey
Polygonum capitatum Don
- PORTULACACEAE**
Portulaca grandiflora Hook.
Portulaca oleracea L. X *grandiflora* Hook.
Portulacaria afra (L.) Jacq.
Talinum paniculatum (Jacq.) Gaertn.
- PRIMULACEAE**
Anagallis monelli L. ssp. *linifolia*
Cyclamen persicum Mill.
Lysimachia clethroides Duby
Lysimachia nummularia L.
Lysimachia punctata L.
- PROTEACEAE**
Grevillea robusta A. Conn.
- PUNICACEAE**
Punica granatum L.
- RANUNCULACEAE**
Aquilegia sp.
Delphinium sp. (hybrid)
Ranunculus cymbalaria Pursh
- RHIZOPHORACEAE**
Rhizophora mangle L.
- ROSACEAE**
Cotoneaster horizontalis Decne.
Duchesnea indica (Andr.) Focke.
Eriobotrya japonica (Thunb.) Lindl.
Potentilla fruticosa L.
Potentilla recta L. cv. *warrenii*
Potentilla tabernaemontana Asch.
Potentilla sp.
Rhaphiolytis umbellata Mak.
Rosa centifolia L. var. *muscosa*
Rosa sp.
- RUBIACEAE**
Coffea arabica L.
Gardenia jasminoides Ellis.
Gardenia sp.

Coriandrum sativum L.
Daucus carota L.
Eryngium maritimum L.
Foeniculum vulgare Mill.
Hydrocotyle rotundifolia Lam.
Lilaeopsis chinensis (L.) O. Ktze.
Sium suave Walt.

URTICACEAE
Boehmeria nivea (L.) Guad.-Beaup.
Pellionia daveauana (Godefr.) N. E. Br.
Pellionia pulchra N. E. Br.
Pilea cadieri Gagnep. & Guillaum.
Pilea involucri (Sims) Urb.
Pilea nummulariifolia (Swartz.) Wedd.

VALERIANACEAE
Valeriana officinalis L.

VERBENACEAE
Aloysia triphylla (L'Her) Britt.
Caryopteris X clandonensis A. Simmonds ex Rehd.
Clerodendrum fragrans (Vent.) R. Br. var. *pleniflorum*
Clerodendrum speciosissimum Van Geert.
Clerodendrum thomsoniae Balf.
Duranta repens L.
Holmskioldia sanguinea Retz.
Lantana camara L.
Verbena cv.
Vitex agnus-castus L.

VIOLACEAE
Viola tricolor L.

VITACEAE
Ampelopsis arborea Koehne
Cissus antarctica Vent. cv. *minima*
Cissus discolor Blume
Cissus juttae Dinter & Gilg ex Gilg & M. Brandt.
Cissus quadrangula L.
Cissus rhombifolia Vahl
Cissus rotundifolia Vahl
Cissus sp.
Rhoicissus capensis (Burm.f.) Planch.
Tetrastigma voinieranum (Balter) Pierre ex Gagnep.

WINTEACEAE
Drimys grenadensis L. var. *mexicana*

Bailey Hortorium Staff. 1987. *Hortus Third: A Concise Dictionary of Plants Cultivated in the United States and Canada*. 1290 pp. MacMillan Publishing Co., Inc., New York.