TROPICAL ZOO PLANTS

Supplier of tropical plants for ZOO exhibits

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www.tzp.dk
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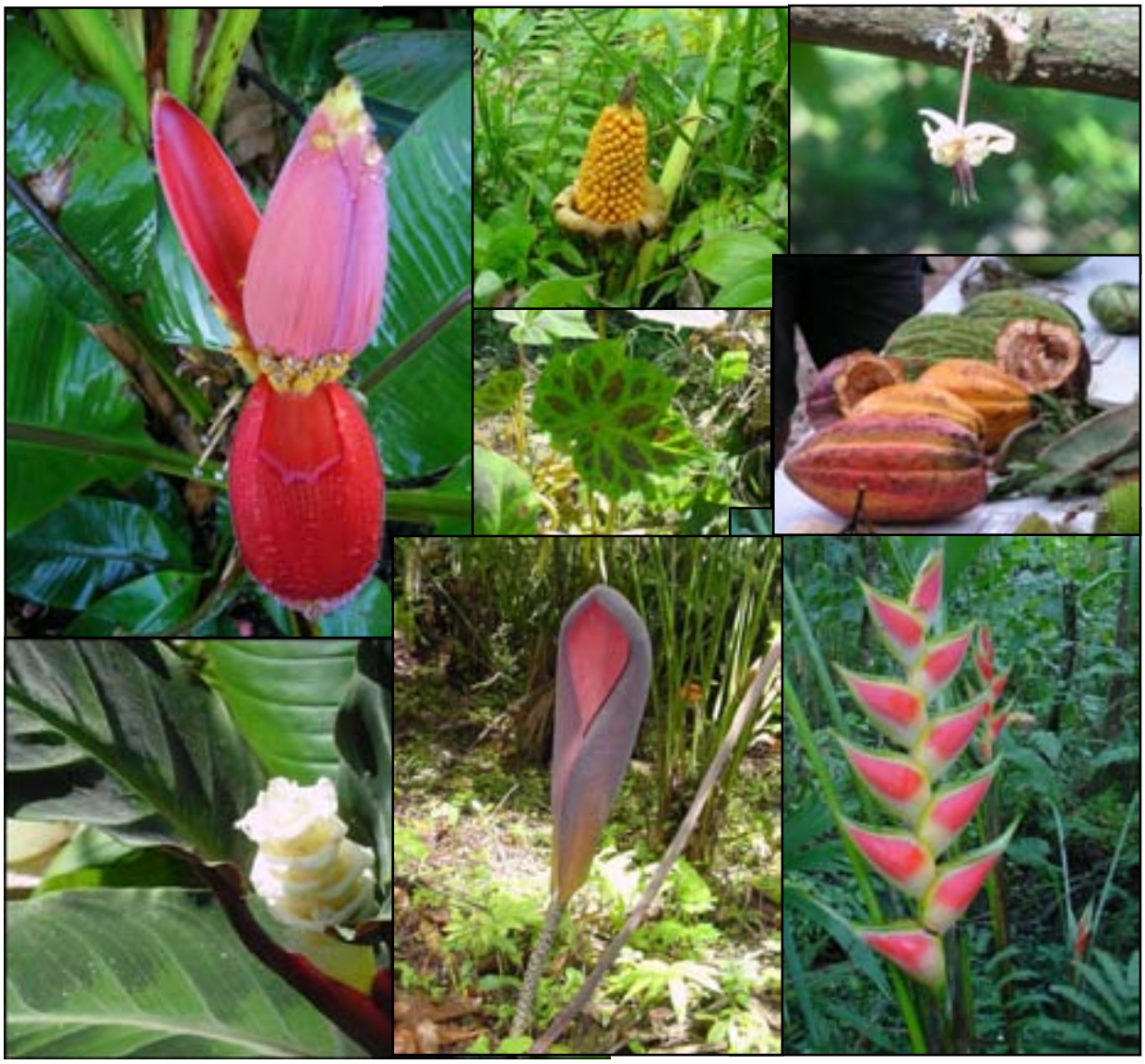
Welcome to a world of tropical plants



Musaceae; Araceae; Begoniaceae; Sterculiaceae; Marantaceae; Heliconiaceae

www.tropicalzooplants.dk

go to Plantlist and find all our plants

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creative consultants of tropical exhibits

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Tropical Zoo Plants

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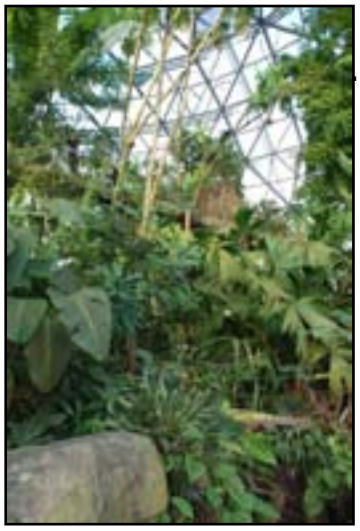
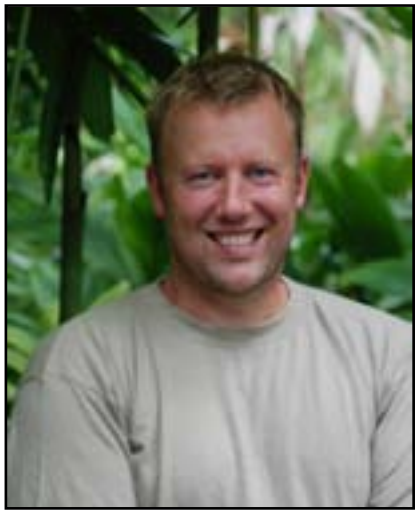


Company profile

Tropical Zoo Plants has supplied rainforest plants for larger tropical exhibits in Europe since 1997. The company own a rainforest in the Limon province, Costa Rica. The forest is 13 HA of secondary rainforest.

Tropical Zoo Plants is a Danish company owned by Botanical Engineer, Mr. Lars Bo Kjeldstrøm-Fisker (1965) and hís wife, Mrs. Marianne Kjeldstrøm-Fisker, Forest -and Landscape Engineer.

Since 1992 Lars Bo Kjeldstrøm-Fisker has worked with nature conservation in Costa Rica. Since 1994 he has worked with Zoo exhibits.
Lectures on both conser-vation, education and the lack of biodiversity in rainforest exhibits, are offered at EAZA horti conferences.



Since 1998 Marianne Kjeldstrøm-Fisker has worked with nature exhibits in Denmark. Since 2005 she has worked with Zoo exhibits and being a conservationist by heart she can explain, to both the visitors in the zoo -and also our collaborators, what we do and why.

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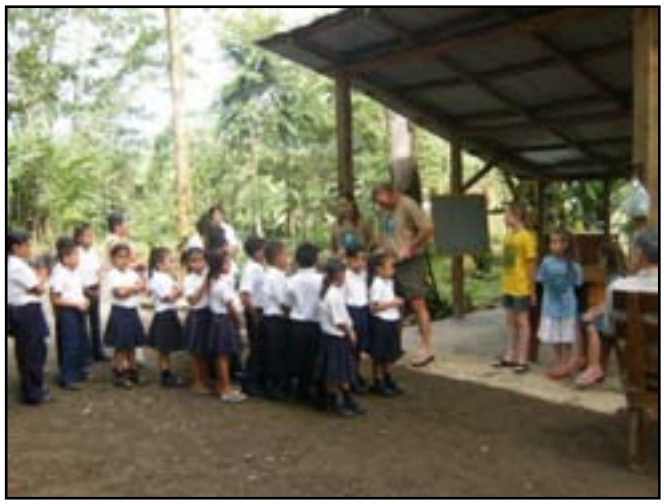
Company policy

Tropical Zoo Plants combines nature conservation and supplying zoo exhibits with rainforest plants by the well established nursery in Aguas Zarcas, Limon, Costa Rica. We run a non-timber production that sustain the local community. This way many of the people in the village do not have to cut their forest to make a living. They work in the production of tropical plants directly in the rainforest.

We try to support the people in the village with all the work, we are able to give them. Therefore most work is always done by hand, and we dont use big machinery.

Development

We care about the people working in the nursery. Free dinner break, free coffee and snack break. We support education and environmental issues in the village, and support with our knowledge at town-meetings.



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Company policy

Conservation

In our rainforest in Costa Rica the biodiversity is very high. It is one of our goals to add more land to our forest. This way we will protect an even larger area, where plants and animals are saved. We will also be able to continue the work with production facilities in the rainforest village and support the local people with a continuous income. This is very essential in modern conservation, that we create a sustainable future - not only in the favour of plants and animals, but also for the local people.

The rainforest nursery is part of a sustainable development and is appreciated by the local government. We concentrate on harvesting the seeds, cuttings, small plants and small trees that are in great numbers in the undergrowth. This will not damage the forest, when done correctly.

Product ecology

Sacks for the plants are sewed by local women of nylon mesh. The mesh is a waste product from big nurseries - where it is used for shade making.The plant sack goes into a wooden crate.The crates are handmade of waste wood from sawmills.

The crates can be reused at the nursery - as only the sack with the plant leaves the nursery. This way more plants can be stored in a container and a soft sack will not damage any of the other plants in the container during the transport.

The picture above shows a sack in a big crate - by shipment of this size of a plant - the sack does stay in the crate.

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References

Tropical Zoo Plants has supplied rainforest plants for larger tropical exhibits in Europe since 1997.

Creating rainforest exhibits in the zoo´s using our knowledge about plants in the real rainforest combined with the knowledge about what plants need when you put them in an artificial environment, like a tropical house.

Recent projects:

Universeum, Sweden

Randers Regnskov, Denmark

Aalborg ZOO, Denmark

Odense ZOO, Denmark

Kattegatcentret, Denmark

Parken ZOO, Sweden

Zlin ZOO, Czech Republic

London ZOO, United Kingdom

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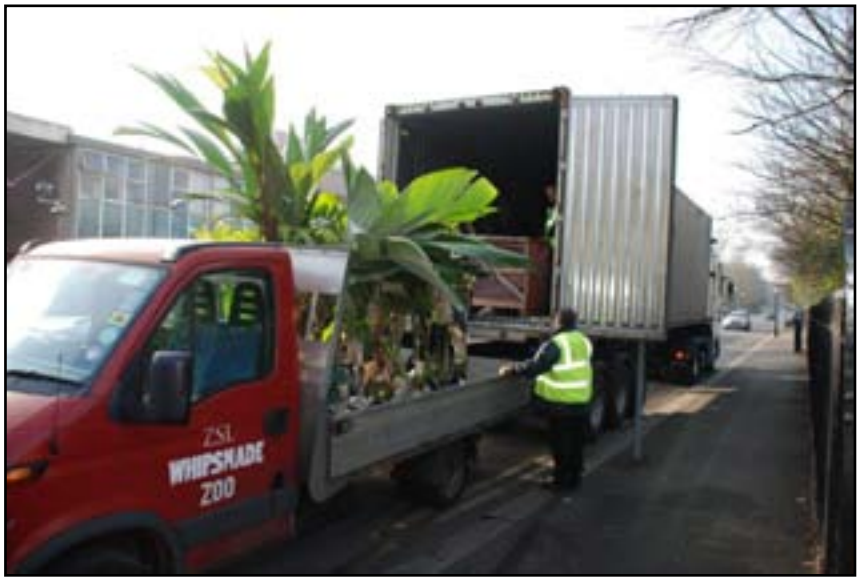
Order

Besides being a professional supplier of tropical plants – our business is to be consultants from the beginning of your project. We work both at our homeoffice in Denmark and at our nursery in Costa Rica. We produce a wide range of true rainforest species.

Beautiful Calathea warscewiczii always on stock

Bauhinea guianensis, Liana



Plants from the nursery arrive at London ZOO, 2008.

We receive your order with the requested plantnames and sizes. Following we help you adjust the order to suit the special wishes for your ZOO exhibition. On our web-site, you can find our plantlist in the feature **Plant Search**.

The plants are shipped in 40 feet climate controlled containers. One container consists aprox. plants to cover 500 sqm exhibit with big trees, palms, climbers, understorey and epiphytes. Conditions are to order by contract 8-12 Months before delivery. Customers will be sceduled to visit the nursery in Costa Rica 8-9 weeks before delivery to see the plants in the nursery and enjoy the plants in the nature. For more details go to our webpage:

www.tzp.dk

Services

to see all our plants
www.tzp.dk

go to PLANTLIST

Tropical Zoo Plants offers all kinds of tropical or subtropical environments – ranging from rainforest to desert. Besides the wide range of species we offer in living plants it is possible to supply with dead plant material such as old trunks and cut lianas – and artificial foliage is also an option for problematic environments like nocturnal ZOO exhibits.

Development and maintenance of the growing forest and stories for the visitors about the tropical plants

Consultance about construction of tropical enclosures and buildings

Water and irrigation systems, rain and fog. Light and shade, artificial light

Soil and draining, water balance in the plants

Diseases and biological programs to control them

Pressure on plants from animals ex-situ

Education and expedition in the rainforest

Presentation and lectures at EAZA conferences and Zoos.

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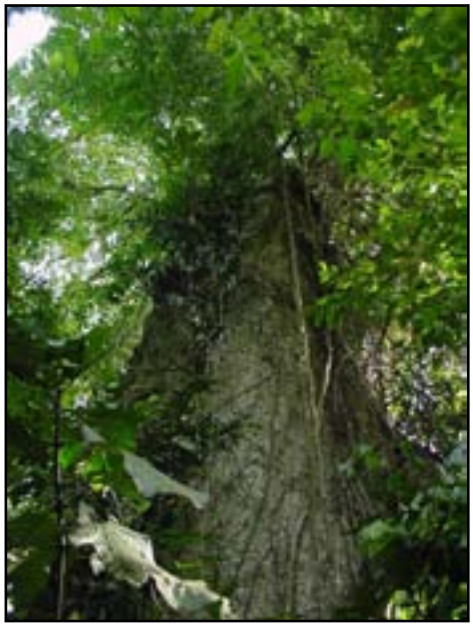
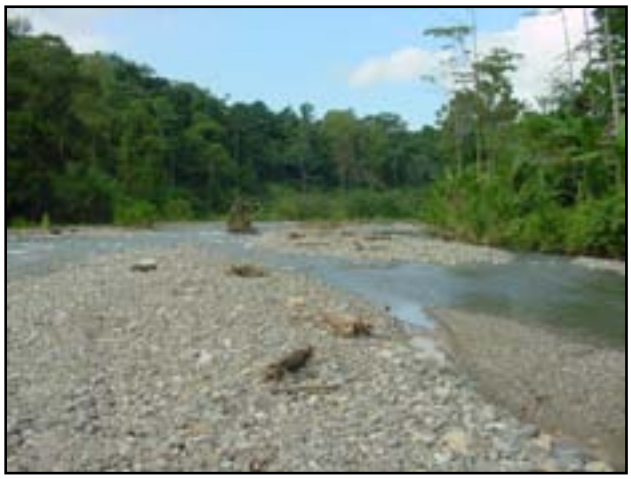
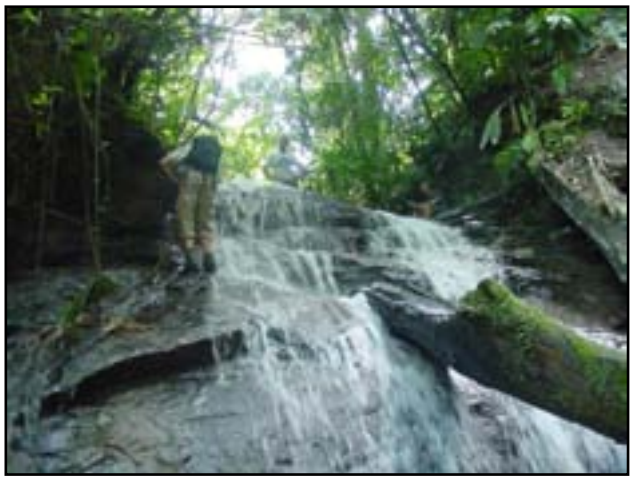
Visit the Rainforest

With all orders of one or more containers follow a visit to Costa Rica. The visit takes place at our production facilities and in our rainforest. It is important for us to show the customers how we work and how the plants grow in the nature.







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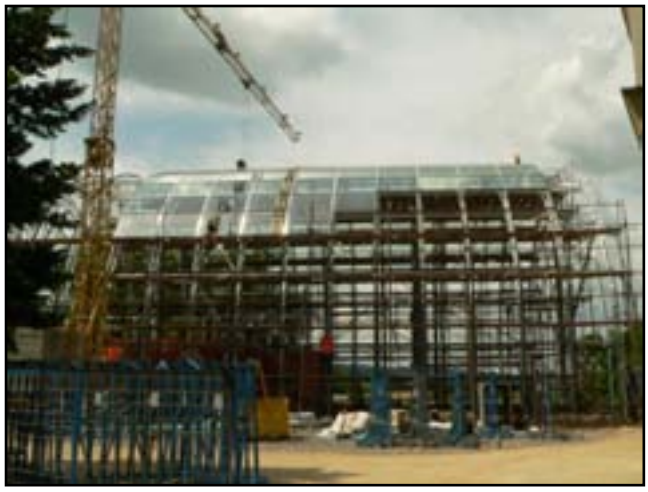
Construction phase

Besides creating the exact type of environment that you need, we also offer our consultancy in the early phases of designing the building in order to discover any technical faults that might prove very expensive to correct later on – such as ventilation, heating, artificial light or water recirculation.

"we create a piece of tropical nature"

Animals and plants



Enclosures for animals are one of our specials – and also butterfly gardens where we can offer consultancy on how to keep and breed - and which species will perform well in your exhibition.
We spend a lot of time in tropical areas to see how nature do the "decorating" – how the plants are growing together and the amount of material we need to create the natural look, which is our primary task when we create a piece of tropical nature.

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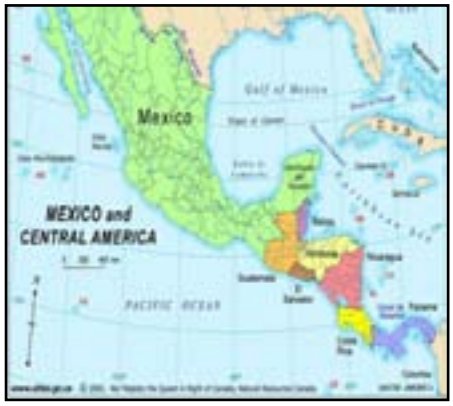
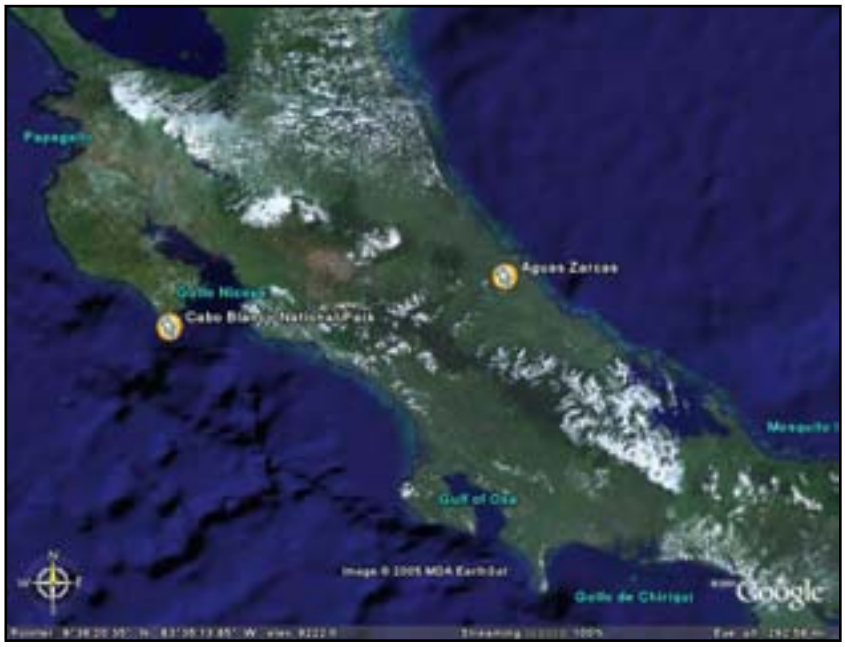
Production in Costa Rica

Our rainforest and nursery in Costa Rica





The nursery and the forest are located in Aguas Zarcas at the Caribean Coast close to the City of Limon.

Our production supports sustainable forestry.

We have the permission to harvest seeds and plant material of wild plant species in the rainforest. The nursery and all plant exports are controlled by the Costa Rican Ministry of Environment and Energi; MINAE and Ministry of Agriculture; MAG.

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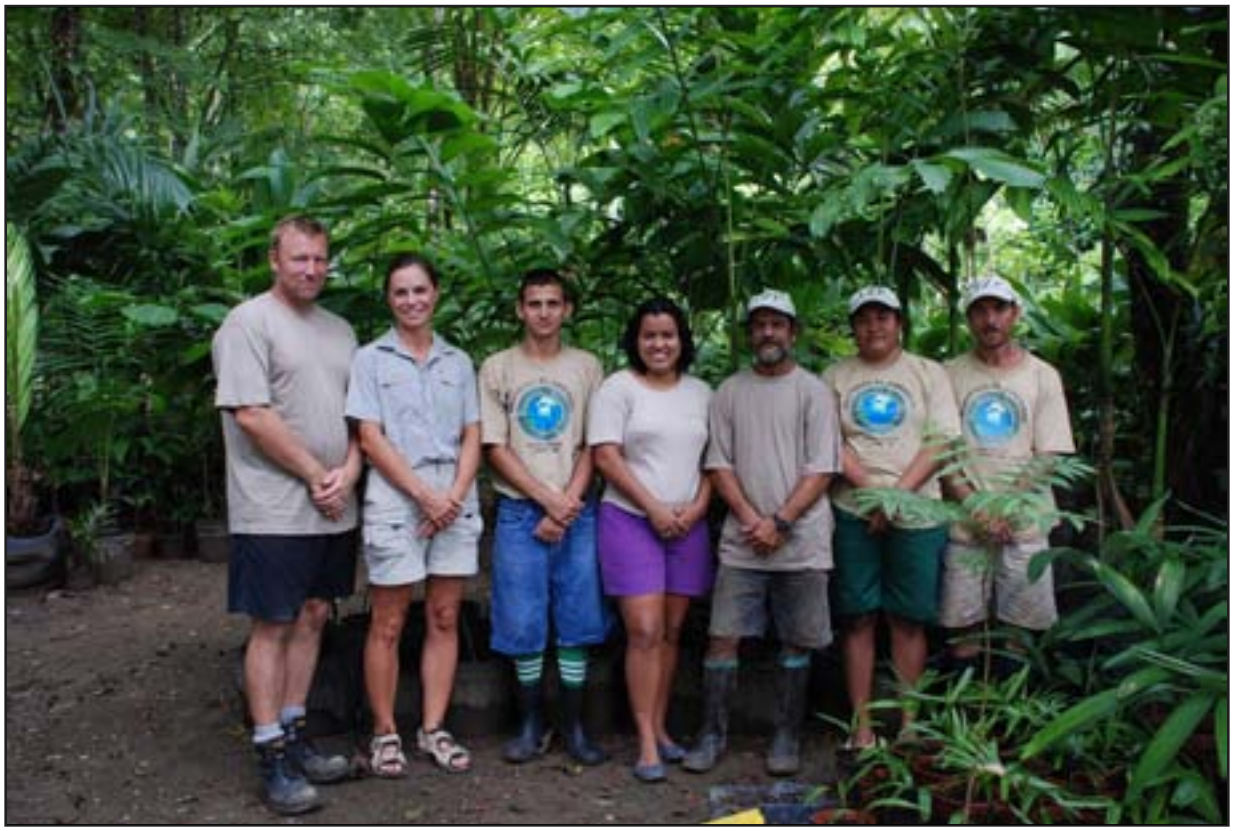
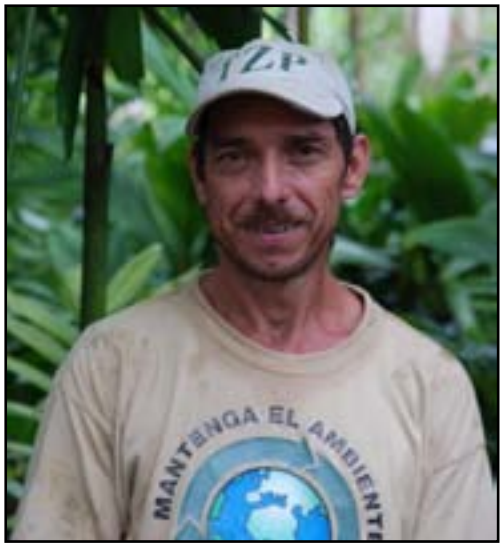
Employees



The employees in Costa Rica are local people from the the village.



Leader of the nursery.

Secretary in San Jose.

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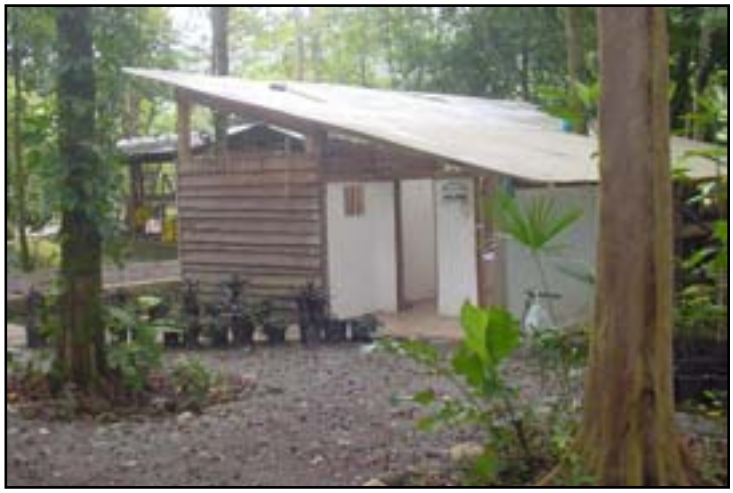
Production facilities



Costus villosisissimus AM031U

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Production facilities

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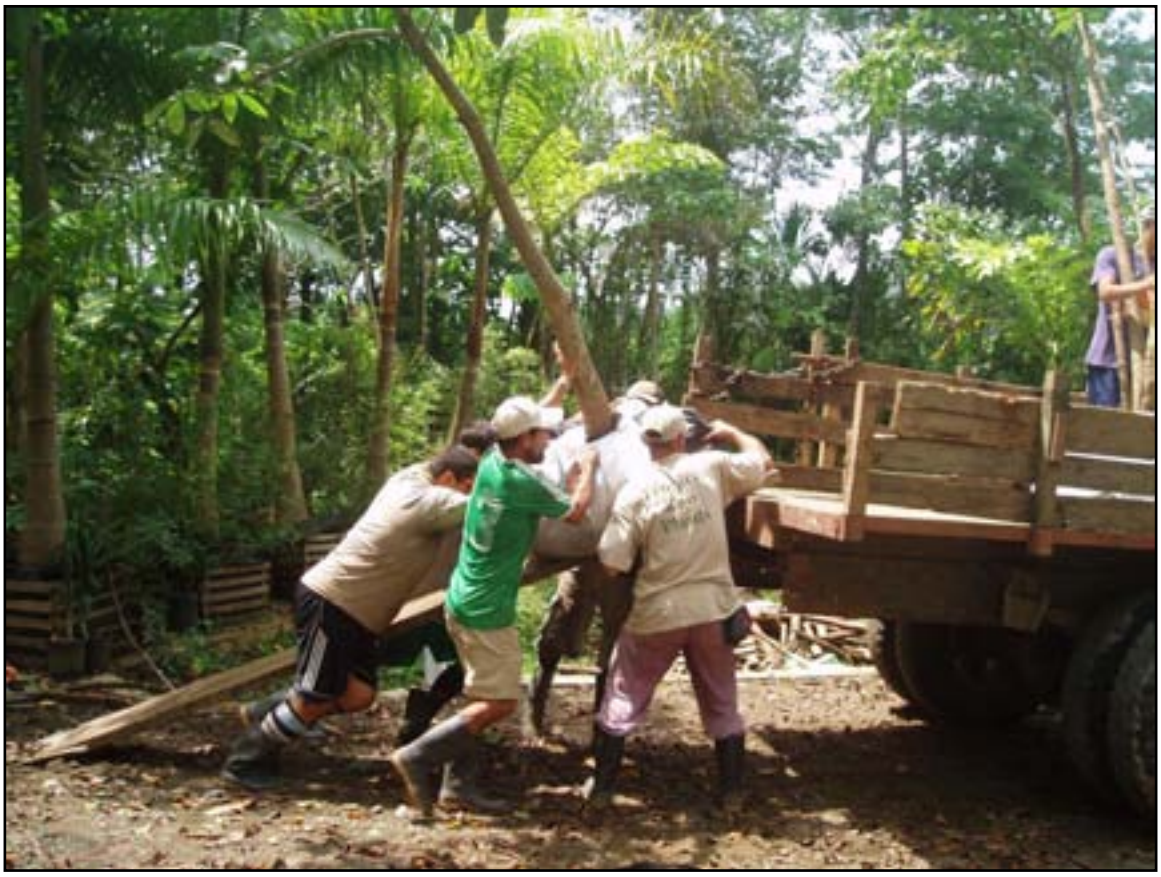
Exportation



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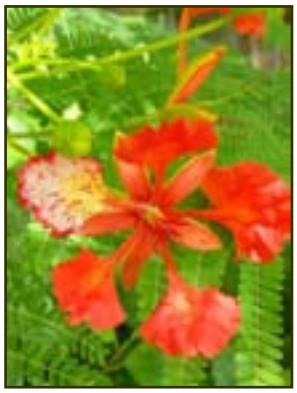
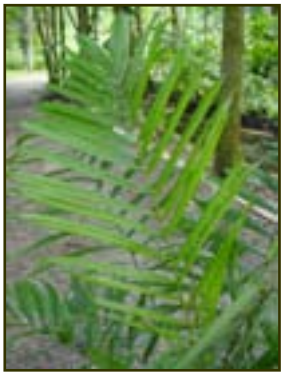
Diversity

Our plant list shows a wide range of diversity in all plant types. From America, Asia and Africa.
You can always draw a new list from our database PLANTSEARCH on the www.tzp.dk
Please be aware that we hold many more species in stock than the list shows. We are working on the registration of all our species.


AM017T Ceiba pentandra, America

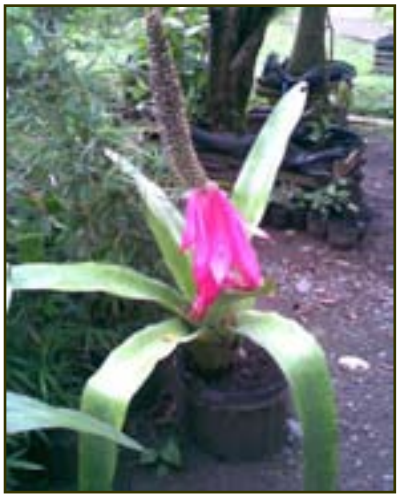

AF002T Delonix regia, Africa


AF004P Elaeis guineensis, Africa


AM107U Crinum rubescens, America


AM283E Tillandsia bulbosa, America


AS018T Artocarpus altillis, Asia


AM287E Aechmea mariae-reginae, America


AM012T Plumeria rubra, America

Click
PLANTSEARCH
to see our plantlist on
www.tropicalzooplants.dk

www.tzp.dk

Plant ID System

You will find that all plants in our plantlist have a unique number. In the nursery the plants are taged with the ID NO.

Beneath is a simple explanation to the ID system:

For example a plant with the ID: AM001P

The two first letters AM indicate in which continent the plant originates:

AM - means Tropical America

AF - means Tropical Africa

AS - means Tropical Asia

The three numbers 001 indicate each plants number

The letter at the end P indicates which type of plant it is.

The system holds 6 types:

T - means TREE

P - means PALM

U - means UNDERSTOREY

E - means EPIPHYTE

C - means CLIMBER

O - means Other....

Trees

The plant list shows a wide range of diversity in the group of trees. Trees from America, Asia and Africa are present. This group of plants contains small to large trees.
Some species are fast growing pioneer trees, others are slow growing hard wood – and some are bearing fruit for consumption by animals or humans.

AM017T Ceiba pentandra, America

AF002T Delonix regia, Africa

AS018T Artocarpus altillis, Asia

AM012T Plumeria rubra, America

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ID NO.	Name	Family	Genera	Species
AM410T	Abarema idiopoda	Fabaceae	Abarema	idiopoda
AM408T	Acacia angustissima	Fabaceae	Acacia	angustissima
AM416T	Acacia collinsii	Mimosaceae	Acacia	collinsii
AM417T	Acacia cornigera	Mimosaceae	Acacia	cornigera
AM020T	Acacia farnesiana	Mimosaceae	Acacia	farnesiana
AM170T	Albizia adinocephala	Mimosaceae	Albizia	adinocephala
AM158T	Anacardium exelsum	Anacardiaceae	Anacardium	exelsum
AM420T	Anacardium occidentale	Anacardiaceae	Anacardium	occidentale
AM433T	Annona cherimola	Annonaceae	Annona	cherimola
AM002T	Annona muricata	Anonnaceae	Annona	muricata
AM003T	Annona sp.	Arecaceae	Annona	sp.
AM439T	Ardisia comprassa	Myrsinaceae	Ardisia	comprassa
AS018T	Artocarpus altilis	Moraceae	Artocarpus	altilis
AS021T	Artocarpus camansi	Moraceae	Artocarpus	camansi
AS039T	Artocarpus heterophylla	Moraceae	Artocarpus	heterophylla
AS004T	Averrhoa bilimbi	Averrhoaceae	Averrhoa	bilimbi
AS008T	Averrhoa carambola	Averrhoaceae	Averrhoa	carambola
AS041T	Averrhoa carambola acido	Averrhoaceae	Averrhoa	carambola acido
AS010T	Azadirachta indica	Meliaceae	Azadirachta	indica
AS011T	Bauhinia purpurea	Caesalpiniaceae	Bauhinia	purpurea
AM004T	Bixa orellana	Bixaceae	Bixa	orellana
AM406T	Bixa orellana amarillo	Bixaceae	Bixa	orellana
AM405T	Bixa urucurana	Bixaceae	Bixa	urucurana
AF006T	Blighia sapida	Sapindaceae	Blighia	sapida
AM165T	Bravaisia integerrima	Acanthaceae	Bravaisia	integerrima
AM174T	Bursera simaruba	Burseraceae	Bursera	simaruba
AM432T	Byrsonyma crassifolia	Malphigiaceae	Byrsonyma	crassifolia
AM456T	Caesalpinia eryostachys	Caesalpiniaceae	Caesalpinia	eryostachys
AM430T	Caesalpinia pulcherrima	Caesalpiniaceae	Caesalpinia	pulcherrima
AM435T	Caesalpinia pulcherrima Amarillo	Caesalpiniaceae	Caesalpinia	pulcherrima Amarillo
AM024T	Calliandra haematocephala	Mimosaceae	Calliandra	haematocephala
AM021T	Calliandra surinamensis	Mimosaceae	Calliandra	surinamensis
AS006T	Callistemon viminalis	Myrtaceae	Calistemon	viminalis
AS017T	Cananga odorata	Anonnaceae	Cananga	odorata
AM155T	Carica cauliflora	Moraceae	Carica	cauliflora
AM154T	Carica papaya	Moraceae	Carica	papaya
AM427T	Casearia sylvestris	Flacourtiaceae	Casearia	sylvestris
AS044T	Cassia fistula	Caesalpiniaceae	Cassia	fistula
AM457T	Cassia grandis	Caesalpiniaceae	Cassia	grandis
AM083T	Castilla elastica	Moraceae	Castilla	elastica
AM074T	Cecropia insignis	Cecropiaceae	Cecropia	insignis
AM073T	Cecropia obtusifolia	Cecropiaceae	Cecropia	obtusifolia
AM072T	Cecropia peltata	Cecropiaceae	Cecropia	peltata
AM026T	Cedrela odorata	Meliaceae	Cedrela	odorata
AM017T	Ceiba pentandra	Bombacaceae	Ceiba	pentandra
AM259T	Chimarrhis sp.	Rubiaceae	Chimarrhis	sp.
AM019T	Chrysophyllum sp.	Sapotaceae	Chrysophyllum	sp.
AM214T	Chrysophyllum sp.	Sapotaceae	Chrysophyllum	sp.
AM431T	Chrysophyllum sp.	Sapotaceae	Chrysophyllum	sp.
AS003T	Cinnamomum verum	Lauraceae	Cinnamomum	verum
AM009T	Citharexylum caudatum	Verbenaceae	Citharexylum	caudatum
AS037T	Citrus aurantifolia	Rutaceae	Citrus	aurantifolia
AS046T	Citrus deliciosa	Rutaceae	Citrus	deliciosa
AM006T	Coccoloba uvifera	Polygonaceae	Coccoloba	uvifera
AS031T	Codiaeum variagatum	Euphorbiaceae	Codiaeum	variagatum
AM421T	Cojoba costaricense	Mimosaceae	Cojoba	costaricense
AM015T	Crescentia alata	Bignoniaceae	Crescentia	alata
AM425T	Cupania glabra	Sapindaceae	Cupania	glabra
AM280T	Cusapoa villosa	Cepropiaceae	Cusapoa	villosa
AM169T	Cybistax donnell smithii	Bignoniaceae	Cybitax	donnell smithii
AF002T	Delonix regia	Caesalpiniaceae	Delonix	regia
AM262T	Dendropanax arboreus	Araliaceae	Dendropanax	arboreus
AM437T	Diphysa americana	Papilionaceae	Diphysa	americana
AM008T	Dipteryx panamensis	Papilionaceae	Dipteryx	panamensis
AM160T	Enterolobium cyclocarpum	Fabaceae	Enterolobium	cyclocarpum

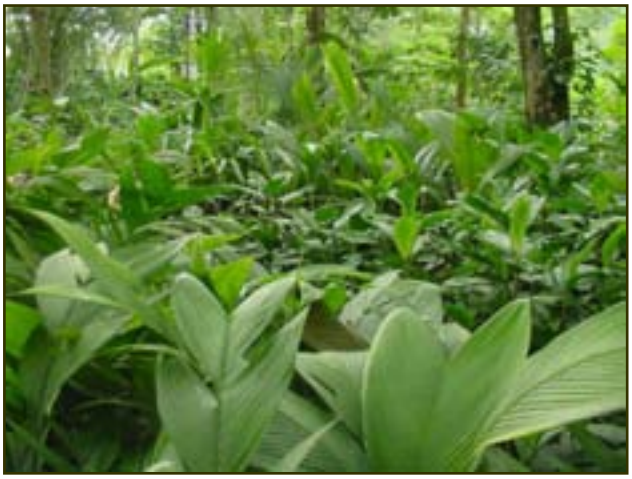
AM443T	Erythrina costarricensis	Papilionaceae	Erythrina	costarricensis
AM444T	Erythrina fusca	Papilionaceae	Erythrina	fusca
AM023T	Erythrina lanceolata	Fabaceae	Erythrina	lanceolata
AM022T	Erythrina sp.	Fabaceae	Erythrina	sp.
AS013T	Eucalyptus sp.	Myrtaceae	Eucalyptus	sp.
AM350T	Euginia uniflora	Myrtaceae	Euginia	uniflora
AS016T	Ficus benjamina	Moraceae	Ficus	benjamina
AM264T	Ficus brevibracteata	Moraceae	Ficus	brevibracteata
AM269T	Ficus cahuitensis	Moraceae	Ficus	cahuitensis
AM276T	Ficus citrifolia	Moraceae	Ficus	citrifolia
AM273T	Ficus colubrinae	Moraceae	Ficus	colubrinae
AS035T	Ficus elastica	Moraceae	Ficus	elastica
AM162T	Ficus goldmanii	Moraceae	Ficus	goldmanii
AM163T	Ficus longifolia	Moraceae	Ficus	longifolia
AM266T	Ficus morazaniana	Moraceae	Ficus	morazaniana
AM161T	Ficus nymphaeifolia	Moraceae	Ficus	nymphaeifolia
AS014T	Ficus panda	Moraceae	Ficus	panda
AM279T	Ficus pertusa	Moraceae	Ficus	pertusa
AM013T	Ficus sp.	Moraceae	Ficus	sp.
AM265T	Ficus sp.	Moraceae	Ficus	sp.
AM267T	Ficus sp.	Moraceae	Ficus	sp.
AM270T	Ficus sp.	Moraceae	Ficus	sp.
AM271T	Ficus sp.	Moraceae	Ficus	sp.
AM272T	Ficus sp.	Moraceae	Ficus	sp.
AM274T	Ficus sp.	Moraceae	Ficus	sp.
AM306T	Ficus sp.	Moraceae	Ficus	sp.
AM268T	Ficus tonduzii	Moraceae	Ficus	tonduzii
AM173T	Genipa americana	Rubiaceae	Genipa	americana
AS043T	Gmelina aborea	Verbenaceae	Gmelina	aborea
AS012T	Grevillea robusta	Proteaceae	Grevillea	robusta
AM167T	Guarea sp.	Meliaceae	Guarea	sp.
AM060T	Hamelia patens	Rubiaceae	Hamelia	patens
AM426T	Heisteria longipes	Olacaceae	Heisteria	longipes
AM313T	Heliocarpus sp.	Tiliaceae	Heliocarpus	sp.
AM084T	Herrania purpurea	Sterculiaceae	Herrania	purpurea
AM331T	Hibiscus pernambucensis	Malvaceae	Hibiscus	pernambucensis
AM127T	Hura crepitans	Euphorbiaceae	Hura	crepitans
AM171T	Hyeronima oblonga	Euphorbiaceae	Hyeronima	oblonga
AM159T	Hymenea courbaril	Caesalpiniaceae	Hymenea	courbaril
AM308T	Inga alba	Fabaceae	Inga	alba
AM305T	Inga ciliata	Fabaceae	Inga	ciliata
AM304T	Inga edulis	Fabaceae	Inga	edulis
AM454T	Inga nobilis	Mimosaceae	Inga	nobilis
AM487T	Inga sapindoides	Fabaceae	Inga	sapindoides
AM303T	Inga skutchii	Fabaceae	Inga	skutchii
AM309T	Inga sp.	Fabaceae	Inga	sp.
AM312T	Inga sp.	Fabaceae	Inga	sp.
AM307T	Inga spectabilis A	Fabaceae	Inga	spectabilis A
AM164T	Inga spectabilis D	Fabaceae	Inga	spectabilis D
AM310T	Inga thibaudiana	Fabaceae	Inga	thibaudiana
AM455T	Inga tonduzii	Mimosaceae	Inga	tonduzii
AM311T	Inga umbellifera	Fabaceae	Inga	umbellifera
AM261T	Isertia sp.	Rubiaceae	Isertia	sp.
AM316T	Jacaranda copaia	Bignoniaceae	Jacaranda	copaia
AM007T	Jacaranda mimosifolia	Bignoniaceae	Jacaranda	mimosifolia
AM442T	Jacarata dolichaulea	Cariaceae	Jacarata	dolichaulea
AM514T	Jatropha curcas	Euphorbiaceae	Jatropha	curcas
AM423T	Jatropha multifida	Euphorbiaceae	Jatropha	multifida
AS005T	Lagerstroemia speciosa	Lythraceae	Lagerstroemia	speciosa
AM257T	Lecythis ampla	Lecythidaceae	Lecythis	ampla
AM418T	Licania sp.	Chrysobalanaceae	Licania	sp.
AM419T	Licania sp.	Chrysobalanaceae	Licania	sp.
AS034T	Litchi chinensis	Sapindaceae	Litchi	chinensis
AM260T	Macrocnenum glabrescens	Rubiaceae	Macrocnenum	glabrescens
AM018T	Mammea americana	Clusiaceae	Mammea	americana
AS009T	Melaleuca decora	Myrtaceae	Melaleuca	decora
AM125T	Minquartia guianensis	Olacaceae	Minquartia	guianensis

AS045T	Murraya paniculata	Rutaceae	Murraya	paniculata
AS015T	Myristica fragrans	Myristicaceae	Myristica	fragrans
AM447T	Nectandra membranaceae	Lauraceae	Nectandra	membranaceae
AM449T	Nectandra reticulata	Lauraceae	Nectandra	reticulata
AM028T	Nectrandra sp.	Lauraceae	Nectandra	sp.
AS042T	Nephelium lappaceum	Sapindaceae	Nephelium	lappaceum
AS023T	Ochna integerrima	Ochnaceae	Ochna	integerrima
AM413T	Ochroma pyramidale	Bombacaceae	Ochroma	pyramidale
AM441T	Oreopanax sp.	Araliaceae	Oreopanax	sp.
AM005T	Pachira aquatica	Bombacaceae	Pachira	aquatica
AM178T	Pachira quinata	Bombacaceae	Pachira	quinata
AS033T	Peltophorum inerme	Caesalpinaceae	Peltophorum	inerme
AM179T	Pentaclethra macroloba	Mimosaceae	Pentaclethra	macroloaba
AM407T	Persea americana	Lauraceae	Persea	amaricana
AM012T	Plumeria rubra	Apocynaceae	Plumeria	rubra
AM263T	Poulsenia armata	Moraceae	Poulsenia	armata
AM411T	Pouruma cecropiifolia	Cecropiaceae	Pouruma	cecropiifolia
AM258T	Pricramnia antidesma	Simaroubaceae	Pricramnia	antidesma
AM016T	Pseudobombax septanum	Bombacaceae	Pseudobombax	septanum
AM176T	Psidium cattleianum	Myrtaceae	Psidium	cattleianum
AM177T	Psidium friedrichstahlianum	Myrtaceae	Psidium	friedrichstahlianum
AM059T	Quassia amara	Simaroubaceae	Quassia	amara
AM448T	Rhodostemonodaphne kunthiana	Lauraceae	Rhodostemonodaphne	kunthiana
AM424T	Rollinia jimenzii	Annonaceae	Rollinia	jimenzii
AM450T	Sapium glandulosum	Lauraceae	Sapium	glandulosum
AS001T	Schefflera amate	Araliaceae	Schefflera	amate
AM011T	Schizolobium parahyba	Fabaceae	Schizolobium	parahyba
AF005T	Spathodea campanulata	Bignoniaceae	Spathodea	campanulata
AS007T	Spondias dulcis	Anacardiaceae	Spondias	dulcis
AM014T	Sterculia recordiana	Sterculiaceae	Sterculia	recordiana
AM422T	Swartzia sumorum	Papilionaceae	Swartzia	sumorum
AM027T	Swietenia macrophylla	Meliaceae	Swietenia	macrophylla
AM492T	Symphonia gabonensis	Clusiaceae	Symphonia	gabonensis
AS040T	Syzygium jambos	Myrtaceae	Syzygium	jambos
AS022T	Syzygium malaccense	Myrtaceae	Syzygium	malaccense
AF008T	Tamarindus indica	Fabaceae	Tamarindus	indica
AM412T	Terminalia amazonia	Combretaceae	Terminalia	amazonia
AM157T	Terminalia catappa	Combretaceae	Terminalia	catappa
AM062T	Theobroma bicolor	Sterculiaceae	Theobroma	bicolor
AM061T	Theobroma cacao	Sterculiaceae	Theobroma	cacao
AM166T	Virola koschnyi	Myristicaceae	Virola	koschnyi
AM415T	Virola sebifera	Myristicaceae	Virola	sebifera
AM414T	Vitex cooperi	Verbenaceae	Vitex	cooperi
AM429T	Xylopia sp.	Annonaceae	Xylopia	sp.
AM409T	Xylosma chlorantha	Flacourtiaceae	Xylosma	chlorantha
AM172T	Zanthoxylum acuminatum	Rutaceae	Zanthoxylum	acuminatum
AM434T	Zygia longifolia	Mimosaceae	Zygia	longifolia

Palms

The plant list shows a wide range of diversity in the group of palms. Palms from America, Asia and Africa are present. This group of plants contains small to large palms, from the deminute Chamaedorea robertii of 0,5 m to the majestic royal palm; Roystonea regia of 15 m.
Some palms are emergents that thrive in the warm and sunny exhibit. Some palms prefers the shade and coolness in the understorey.

AM142P Chamaedorea robertii, America



AS020P Caryota urens, Asia

AF004P Elaeis guineensis, Africa

ID NO.	Name	Family	Genera	Species
AS032P	Areca triandra	Arecaceae	Areca	triandra
AM250P	Asterogyne martiana	Arecaceae	Asterogyne	martiana
AM133P	Astrocaryum alatum	Arecaceae	Astrocaryum	alatum
AM134P	Astrocaryum standleyanum	Arecaceae	Astrocaryum	standleyanum
AM136P	Attalea butyracea	Arecaceae	Attalea	butyracea
AM146P	Bactris candata	Arecaceae	Bactris	candata
AM139P	Bactris gasipaes	Arecaceae	Bactris	gasipaes
AM488P	Bactris glandulosa	Arecaceae	Bactris	glandulosa
AM254P	Bactris gracilior	Arecaceae	Bactris	gracilior
AM147P	Bactris hondurensis	Arecaceae	Bactris	hondurensis
AM148P	Bactris longiseta	Arecaceae	Bactris	longiseta
AM252P	Bactris maraja	Arecaceae	Bactris	maraja
AM253P	Bactris sp.	Arecaceae	Bactris	sp.
AM130P	Calyptrogyne ghiesbreghtiana	Arecaceae	Calyptrogyne	ghiesbreghtiana
AS020P	Caryota urens	Arecaceae	Caryota	urens
AM135P	Chamaedorea allenii	Arecaceae	Chamaedorea	allenii
AM142P	Chamaedorea robertii	Arecaceae	Chamaedorea	robertii
AM129P	Chamaedorea tepejilote	Arecaceae	Chamaedorea	tepejilote
AF007P	Chrysalidocarpus lutescens	Arecaceae	Chrysalidocarpus	lutescens
AM099P	Cocos nucifera	Arecaceae	Cocos	nucifera
AM150P	Crysophila warscewiczii	Arecaceae	Crysophila	warscewiczii
AM248P	Desmoncus orthacanthos	Arecaceae	Desmoncus	orthacanthos
AF004P	Elaeis guineensis	Arecaceae	Elaeis	guineensis
AM138P	Geonoma congesta	Arecaceae	Geonoma	congesta
AM144P	Geonoma interrupta	Arecaceae	Geonoma	interrupta
AM137P	Geonoma sp.	Arecaceae	Geonoma	sp.
AM145P	Geonoma sp.	Arecaceae	Geonoma	sp.
AM256P	Geonoma sp.	Arecaceae	Geonoma	sp.
AM489P	Geonoma sp.	Arecaceae	Geonoma	sp.
AM132P	Iriartea deltoidea	Arecaceae	Iriartea	deltoidea
AM255P	Oenocarpus mapora	Arecaceae	Oenocarpus	mapora
AM140P	Prestoea decurrens	Arecaceae	Prestoea	decurrens
AS029P	Raphis excelsa	Arecaceae	Raphis	excelsa
AM131P	Reinhardtia koschnyana	Arecaceae	Reinhardtia	koschnyana
AM001P	Roystonea regia	Arecaceae	Roystonea	regia
AM149P	Socratea exorrhiza	Arecaceae	Socratea	exorrhiza
AM151P	Syagrus romanzoffiana	Arecaceae	Syagrus	romanzoffiana
AM141P	Synechanthus warscewiczianus	Arecaceae	Synecthanthus	warscewiczianus
AM143P	Welfia regia	Arecaceae	Welfia	regia

Understorey

The plant list shows a group of plants of high diversity and many flowering plants from America, Asia and Africa.
These plants we find in the shade of the emergent trees or developing in the light gaps of fallen giants or landslide areas.

AM107U Crinum rubescens, America

AM100U Heliconia wagneriana, America

AM315U Costus barbatus, America

AS030U Zingiber officinalis, Asia

AM081U Pentagonia wendlandii, America

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ID NO.	Name	Family	Genera	Species
AM365U	Acrostichum danaeifolium	Pteridaceae	Acrostichum	danaeifolium
AM366U	Adiantum concinnum	Adiantaceae	Adiantum	concinnum
AM513U	Adiantum petiolatum	Pteridaceae	Adiantum	petiolatum
AM352U	Adiantum polyphyllum	Adiantaceae	Adiantum	polyphyllum
AM286U	Aechmea magdalenae	Bromeliaceae	Aechmea	magdalenae
AM152U	Ananas comosum	Bromeliaceae	Ananas	comosum
AM436U	Aneilema sp.	Commelinaceae	Aneilema	sp.
AF001U	Angiopteris evecta	Marattiaceae	Angiopteris	evecta
AM156U	Aphelandra squarrosa	Acanthaceae	Aphelandra	squarrosa
AM201U	Asplundia brunneistigma	Cyclanthaceae	Asplundia	brunneistigma
AM318U	Asplundia sleeperae	Cyclanthaceae	Asplundia	sleeperae
AM319U	Asplundia sp.	Cyclanthaceae	Asplundia	sp.
AM321U	Asplundia sp.	Cyclanthaceae	Asplundia	sp.
AS038U	Bambusa sp.	Graminae	Bambusa	sp.
AM115U	Begonia heraclefolia	Begoniaceae	Begonia	heraclefolia
AM372U	Blechnum occidentale	Blechnaceae	Blechnum	occidentale
AM364U	Bolbitis sp.	Lomariopsidaceae	Bolbitis	sp.
AM093U	Calathea crotalifera	Maranthaceae	Calathea	crotalifera
AM227U	Calathea leucostachys	Maranthaceae	Calathea	leucostachys
AM095U	Calathea lutea	Maranthaceae	Calathea	lutea
AM216U	Calathea marantifolia	Maranthaceae	Calathea	marantifolia
AM091U	Calathea micans	Maranthaceae	Calathea	micans
AM085U	Calathea sp.	Maranthaceae	Calathea	sp.
AM086U	Calathea sp.	Maranthaceae	Calathea	sp.
AM088U	Calathea sp.	Maranthaceae	Calathea	sp.
AM089U	Calathea sp.	Maranthaceae	Calathea	sp.
AM092U	Calathea sp.	Maranthaceae	Calathea	sp.
AM094U	Calathea sp.	Maranthaceae	Calathea	sp.
AM217U	Calathea sp.	Maranthaceae	Calathea	sp.
AM218U	Calathea sp.	Maranthaceae	Calathea	sp.
AM219U	Calathea sp.	Maranthaceae	Calathea	sp.
AM220U	Calathea sp.	Maranthaceae	Calathea	sp.
AM221U	Calathea sp.	Maranthaceae	Calathea	sp.
AM222U	Calathea sp.	Maranthaceae	Calathea	sp.
AM223U	Calathea sp.	Maranthaceae	Calathea	sp.
AM224U	Calathea sp.	Maranthaceae	Calathea	sp.
AM225U	Calathea sp.	Maranthaceae	Calathea	sp.
AM226U	Calathea sp.	Maranthaceae	Calathea	sp.
AM090U	Calathea veitchiana	Maranthaceae	Calathea	veitchiana
AM087U	Calathea warchzewickii	Maranthaceae	Calathea	warchzewickii
AM490U	Canna indica	Cannaceae	Canna	indica
AM071U	Carludovica drudei	Cyclanthaceae	Carludovica	drudei
AM325U	Carludovica sp.	Cyclanthaceae	Carludovica	sp.
AM251U	Cascabela thevetia	Apocynaceae	Cascabela	thevetia
AM180U	Chlorospatha croatiana	Araceae	Chlorospatha	croatiana
AM329U	Chrysobalanus icaco	Chrysobalanaceae	Chrysobalanus	icaco
AM212U	Chusquea sp.	Graminae	Chusquea	sp.

AM186U	Clidemia densiflora	Melastomataceae	Clidemia	densiflora
AM315U	Costus barbatus	Costaceae	Costus	barbatus
AM347U	Costus bracteatus	Costaceae	Costus	bracteatus
AM029U	Costus laevis	Costaceae	Costus	laevis
AM033U	Costus malortieanus	Costaceae	Costus	malortieanus
AM036U	Costus pulverulentus	Costaceae	Costus	pulverulentus
AM346U	Costus scaber	Costaceae	Costus	scaber
AM032U	Costus sp.	Costaceae	Costus	sp.
AM034U	Costus sp.	Costaceae	Costus	sp.
AM035U	Costus sp.	Costaceae	Costus	sp.
AM215U	Costus sp.	Costaceae	Costus	sp.
AM314U	Costus sp.	Costaceae	Costus	sp.
AS047U	Costus speciosa	Costaceae	Costus	speciosa
AM030U	Costus stenophyllus	Costaceae	Costus	stenophyllus
AM031U	Costus villosissimus	Costaceae	Costus	villosissimus
AM345U	Costus woodsonii	Costaceae	Costus	woodsonii
AM107U	Crinum erubescens	Amaryllidaceae	Crinum	erubescens
AS019U	Curcuma sp.	Zingiberaceae	Curcuma	sp.
AM070U	Cyclanthus bipartitus	Cyclanthaceae	Cyclanthus	bipartitus
AM511U	Cyclanthus sp.	Cyclanthaceae	Cyclanthus	sp.
AM370U	Danaea media	Marratiaceae	Danaea	media
AM097U	Dichorisandra amabilis	Commelinaceae	Dichorisandra	amabilis
AM098U	Dichorisandra thyrsifolia	Commelinaceae	Dichorisandra	thyrsifolia
AM187U	Dicranopygium sp.	Cyclanthaceae	Dicranopygium	sp.
AM322U	Dicranopygium wedelii	Cyclanthaceae	Dicranopygium	wedelii
AM402U	Didymochlaena truncatula	Aspidiaceae	Didymochlaena	truncatula
AM111U	Dieffenbachia nitidipetiolata	Araceae	Dieffenbachia	nitidipetiolata
AM110U	Dieffenbachia sp.	Araceae	Dieffenbachia	sp.
AM112U	Dieffenbachia sp.	Araceae	Dieffenbachia	sp.
AM113U	Dieffenbachia sp.	Araceae	Dieffenbachia	sp.
AM114U	Dieffenbachia sp.	Araceae	Dieffenbachia	sp.
AM343U	Dieffenbachia sp.	Araceae	Dieffenbachia	sp.
AM344U	Dieffenbachia sp.	Araceae	Dieffenbachia	sp.
AM037U	Dimerocostus strobilaceus	Costaceae	Dimerocostus	strobilaceus
AM393U	Diplazium striatastrum	Athyriaceae	Diplazium	striatastrum
AM175U	Dracontium pittieri	Araceae	Dracontium	pittieri
AM374U	Fern sp			
AM375U	Fern sp			
AM376U	Fern sp			
AM377U	Fern sp			
AM378U	Fern sp			
AM380U	Fern sp.			
Am386U	Fern sp.			
AM387U	Fern sp.			
AM388U	Fern sp.			
AM389C	Fern sp.			
AM390U	Fern sp.			
AM392U	Fern sp.			
AM395U	Fern sp.			
AM398U	Fern sp.			
AM399U	Fern sp.			
AM400U	Fern sp.			

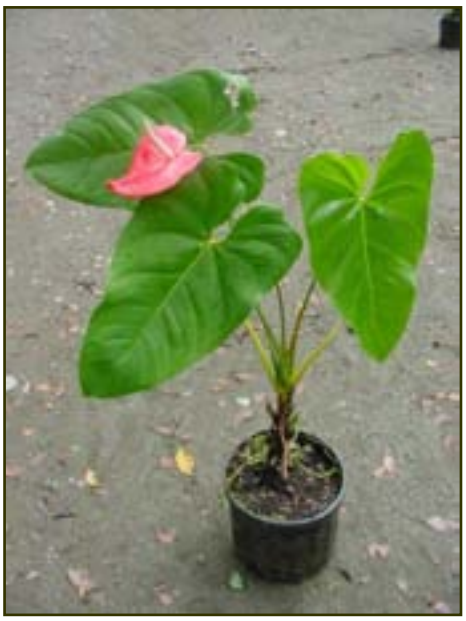
AM401U	Fern sp.			
AM510U	Fern sp.			
AM512U	Fern sp.			
AM213U	Guadua sp.	Graminae	Guadua	sp.
AM076U	Gynerium sagittatum	Poaceae	Gynerium	sagittatum
AS036U	Hedychium coronarium	Zingiberaceae	Hedychium	coronarium
AM244U	Heliconia clinophila	Heliconiaceae	Heliconia	clinophila
AM245U	Heliconia imbricata	Heliconiaceae	Heliconia	imbricata
AM508U	Heliconia irrasa	Heliconiaceae	Heliconia	irrasa
AM242U	Heliconia latisphata	Heliconiaceae	Heliconia	latisphata
AM506U	Heliconia longiflora	Heliconiaceae	Heliconia	sp.
AM241U	Heliconia mariae	Heliconiaceae	Heliconia	mariae
AM243U	Heliconia pogonantha	Heliconiaceae	Heliconia	pogonantha
AM240U	Heliconia psittacorum	Heliconiaceae	Heliconia	psittacorum
AM507U	Heliconia reticulata	Heliconiaceae	Heliconia	reticulata
AM101U	Heliconia sp.	Heliconiaceae	Heliconia	sp.
AM246U	Heliconia sp.	Heliconiaceae	Heliconia	sp.
AM100U	Heliconia wagneriana	Heliconiaceae	Heliconia	wagneriana
AM185U	Homalomena wendlandii	Araliaceae	Homalomena	wendlandii
AM182U	Hymenocallis littoralis	Amaryllidaceae	Hymenocallis	littoralis
AM063U	Ischnosiphon inflatus	Maranthaceae	Ischnosiphon	inflatus
AM348U	Limnocharis flava	Limnocharitaceae	Limnocharis	flava
AM096U	Melastomataceae sp.	Melastomataceae	Melastomataceae	sp.
AM497U	Melastomataceae sp.	Melastomataceae	Melastomataceae	sp.
AM499U	Melastomataceae sp.	Melastomataceae	Melastomataceae	sp.
AM500U	Melastomataceae sp.	Melastomataceae	Melastomataceae	sp.
AM501U	Melastomataceae sp.	Melastomataceae	Melastomataceae	sp.
AM502U	Melastomataceae sp.	Melastomataceae	Melastomataceae	sp.
AM503U	Melastomataceae sp.	Melastomataceae	Melastomataceae	sp.
AM504U	Melastomataceae sp.	Melastomataceae	Melastomataceae	sp.
AM505U	Melastomataceae sp.	Melastomataceae	Melastomataceae	sp.
AM446U	Montrichardia arborenscens	Araceae	Montrichardia	arborenscens
AM249U	Nephrolepis biserrata	Polypodiaceae	Nephrolepis	biserrata
AM247U	Nephrolepis sp.	Polypodiaceae	Nephrolepis	sp.
AM373U	Nephrolepis sp.	Lomariopsidaceae	Nephrolepis	sp.
AM385U	Nephrolepis sp.	Lomariopsidaceae	Nephrolepis	Sp.
AM354U	Niphidium nidulare	Polypodiaceae	Niphidium	nidulare
AM355U	Niphidium sp.	Polypodiaceae	Niphidium	Sp.
AM356U	Niphidium sp.	Polypodiaceae	Niphidium	Sp.
AM357U	Niphidium sp.	Polypodiaceae	Niphidium	Sp.
AM358U	Niphidium sp.	Polypodiaceae	Niphidium	Sp.
AM359U	Niphidium sp.	Polypodiaceae	Niphidium	Sp.

AM079U	Pentagonia macrophylla	Rubiaceae	Pentagonia	macrophylla
AM080U	Pentagonia sp.	Rubiaceae	Pentagonia	sp.
AM081U	Pentagonia wendlandii	Rubiaceae	Pentagonia	wendlandii
AM233U	Philodendron grandipes	Araceae	Philodendron	grandipes
AM362U	Phlebodium sp.	Polypodiaceae	Phlebodium	sp.
AM183U	Piper auritum	Piperaceae	Piper	auritum
AM462U	Piper cenocladom	Piperaceae	Piper	cenocladom
AM473U	Piper evasum	Piperaceae	Piper	evasum
AM483U	Piper friedrichsthalii	Piperaceae	Piper	friedrichsthalii
AM479U	Piper melanocladum	Piperaceae	Piper	melanocladum
AM476U	Piper multiplinervum	Piperaceae	Piper	multiplinervum
AM481U	Piper ortopodium	Piperaceae	Piper	ortopodium
AM468U	Piper paulifolium	Piperaceae	Piper	paulifolium
AM184U	Piper peltatum	Piperaceae	Piper	peltatum
AM461U	Piper pleiostachopiper	Piperaceae	Piper	pleiostachopiper
AM458U	Piper reticulatum	Piperaceae	Piper	reticulatum
AM459U	Piper sp.	Piperaceae	Piper	sp.
AM464U	Piper sp.	Piperaceae	Piper	sp.
AM465U	Piper sp.	Piperaceae	Piper	sp.
AM466U	Piper sp.	Piperaceae	Piper	sp.
AM467U	Piper sp.	Piperaceae	Piper	sp.
AM469U	Piper sp.	Piperaceae	Piper	sp.
AM470U	Piper sp.	Piperaceae	Piper	sp.
AM471U	Piper sp.	Piperaceae	Piper	sp.
AM474U	Piper sp.	Piperaceae	Piper	sp.
AM475U	Piper sp.	Piperaceae	Piper	sp.
AM477U	Piper sp.	Piperaceae	Piper	sp.
AM478U	Piper sp.	Piperaceae	Piper	sp.
AM480U	Piper sp.	Piperaceae	Piper	sp.
AM482U	Piper sp.	Piperaceae	Piper	sp.
AM484U	Piper sp.	Piperaceae	Piper	sp.
AM485U	Piper sp.	Piperaceae	Piper	sp.
AM486U	Piper sp.	Piperaceae	Piper	sp.
AM463U	Piper urostachyum	Piperaceae	Piper	urostachyum
AM460U	Piper violae	Piperaceae	Piper	violae
AM367U	Pityrogramma calomelanos	Hemionitidaceae	Pityrogramma	calomelanos
AM381U	Polypodium sp.	Polypodiaceae	Polypodium	sp.
AM384C	Polypodium sp.	Polypodiaceae	Polypodium	Sp.
AM351U	Pteris altissima	Pteridaceae	Pteris	altissima
AM379U	Pteris sp.	Pteridaceae	Pteris	sp.
AF003U	Ravenala madagascariensis	Strelitziaceae	Ravenala	madagascariensis
AM103U	Renalmia sp.	Zingiberaceae	Renealmia	sp.
AM102U	Renealmia cernua	Zingiberaceae	Renealmia	cernua
AM105U	Renealmia pluriplicata	Zingiberaceae	Renealmia	pluripicata
AM371C	Salpichlaena volubilis	Blechnaceae	Salpichlaena	volubilis
AM403U	Selaginella anceps	Selaginellaceae	Selaginella	anceps
AM404U	Selaginella sp.	Selaginellaceae	Selaginella	sp.
AM118U	Spathiphyllum sp.	Araceae	Spathiphyllum	sp.
AM119U	Spathiphyllum sp.	Araceae	Spathiphyllum	sp.
AM120U	Spathiphyllum sp.	Araceae	Spathiphyllum	sp.
AM117U	Spathiphyllum wendlandii	Araceae	Spathiphyllum	wendlandii

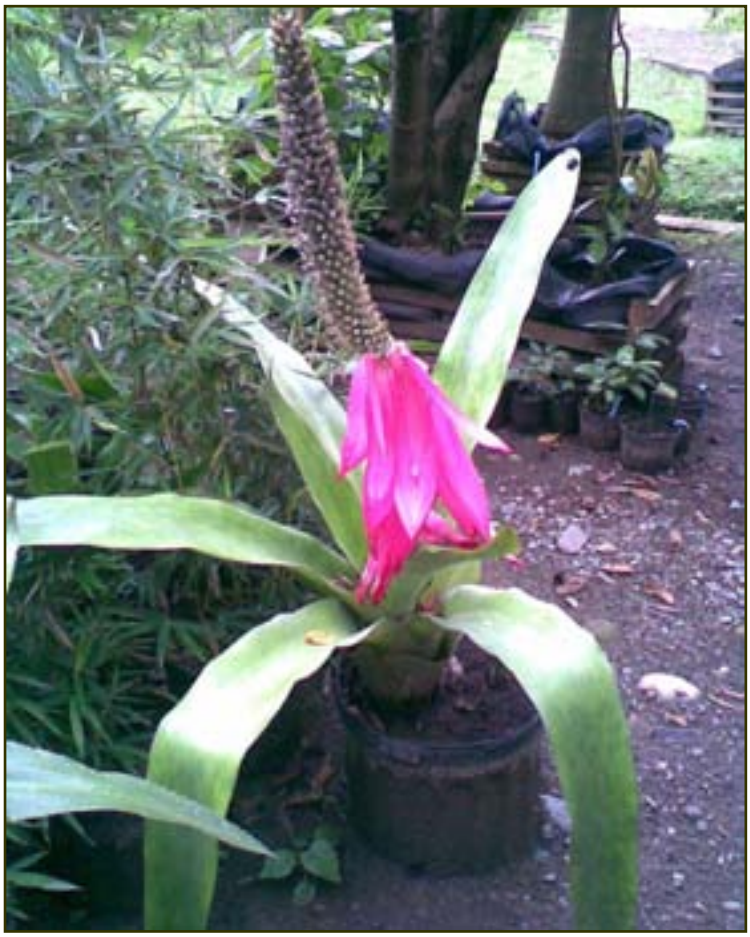
AM188U	Sphaeradenia acutitepala	Cyclanthaceae	Sphaeradenia	acutitepala
AM181U	Sphaeradenia sp.	Cyclanthaceae	Sphaeradenia	sp.
AM330U	Stachytarpheta jamaicensis	Verbenaceae	Stachytarpheta	jamaicensis
AM353U	Tectaria brauniana	Dryopteridaceae	Tectaria	brauniana
AM363U	Tectaria sp.	Dryopteridaceae	Tectaria	sp.
AM360U	Thelypteris ghiesbreghtiana	Thelypteridaceae	Thelypteris	ghiesbreghtiana
AM368U	Thelypteris lingulata	Thelypteridaceae	Thelypteris	lingulata
AM498U	Triolena sp.	Melastomataceae	Triolena	sp.
AM116U	Xanthosoma undipes	Araceae	Xanthosoma	undipes
AM121U	Xiphidium caeruleum	Haemodoraceae	Xiphidium	caeruleum
AM058U	Zamia neurophyllidia	Zamiaceae	Zamia	neurophyllidia
AS030U	Zingiber officinalis	Zingiberaceae	Zingiber	officinalis

Epiphytes

Epiphyte means ”growing on plant” – and these plants you will find growing on the trunks and branches of trees (and palms).
Their roots cling to the tree, but they are not parasitic and not any hazard to the tree in general.



AM042E Anthurium andreanum, America



AM287E Aechmea mariae-reginae, America

AM324E Evodianthus funifer, America

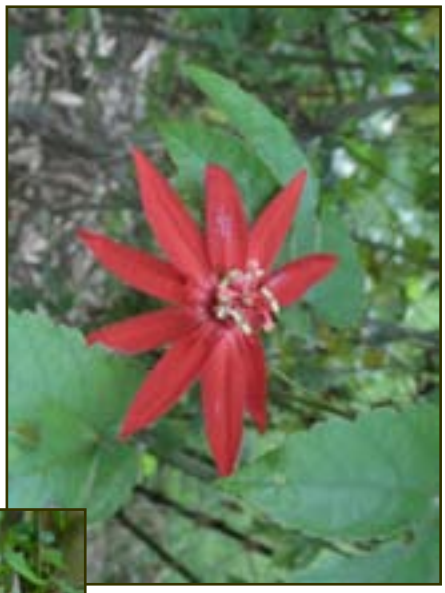
AM283E Tillandsia bulbosa, America

ID NO.	Name	Family	Genera	Species
AM287E	Aechmea mariae-reginae	Bromeliaceae	Aechmea	mariae-reginae
AM284E	Aechmea nudicaulis	Bromeliaceae	Aechmea	nudicaulis
AM290E	Aechmea pubescens	Bromeliaceae	Aechmea	pubescens
AM153E	Aechmea sp.	Bromeliaceae	Aechmea	sp.
AM042E	Anthurium andreanum	Araceae	Anthurium	andreanum
AM039E	Anthurium bakeri	Araceae	Anthurium	bakeri
AM038E	Anthurium clavigerum	Araceae	Anthurium	clavigerum
AM339E	Anthurium consobrinum	Araceae	Anthurium	consobrinum
AM051E	Anthurium crystallinum	Araceae	Anthurium	crystallinum
AM048E	Anthurium cuspidatum	Araceae	Anthurium	cuspidatum
AM337E	Anthurium fatoense	Araceae	Anthurium	fatoense
AM040E	Anthurium gracile	Araceae	Anthurium	gracile
AM047E	Anthurium pentaphyllum	Araceae	Anthurium	pentaphyllum
AM044E	Anthurium prolatum	Araceae	Anthurium	prolatum
AM054E	Anthurium salvinii	Araceae	Anthurium	salvinii
AM045E	Anthurium scandens	Araceae	Anthurium	scandens
AM053E	Anthurium schottianum	Araceae	Anthurium	schottianum
AM041E	Anthurium sp.	Araceae	Anthurium	sp.
AM046E	Anthurium sp.	Araceae	Anthurium	sp.
AM049E	Anthurium sp.	Araceae	Anthurium	sp.
AM050E	Anthurium sp.	Araceae	Anthurium	sp.
AM052E	Anthurium sp.	Araceae	Anthurium	sp.
AM055E	Anthurium sp.	Araceae	Anthurium	sp.
AM056E	Anthurium sp.	Araceae	Anthurium	sp.
AM106E	Anthurium sp.	Araceae	Anthurium	sp.
AM338E	Anthurium sp.	Araceae	Anthurium	sp.
AM340E	Anthurium sp.	Araceae	Anthurium	sp.
AM341E	Anthurium sp.	Araceae	Anthurium	sp.
AM336E	Anthurium subsignatum	Araceae	Anthurium	subsignatum
AM043E	Anthurium upalense	Araceae	Anthurium	upalense
AM281E	Catopsis nutans	Bromeliaceae	Catopsis	nutans
AM190E	Catopsis paniculata	Bromeliaceae	Catopsis	paniculata
AM289E	Catopsis sessiliflora	Bromeliaceae	Catopsis	sessiliflora
AM293E	Catopsis sp.	Bromeliaceae	Catopsis	sp.
AM294E	Catopsis sp.	Bromeliaceae	Catopsis	sp.
AM302E	Catopsis sp.	Bromeliaceae	Catopsis	sp.
AM126E	Clusia sp.	Clusiaceae	Clusia	sp.
AM108E	Cochliostema odoratissimum	Commelinaceae	Cochliostema	odoratissimum
AM191E	Columnea sp.	Gesneraceae	Columnea	sp.
AM324E	Evodianthus funifer	Cyclanthaceae	Evodianthus	funifer
AM193E	Guzmania monostachia	Bromeliaceae	Guzmania	monostachia
AM192E	Guzmania sp.	Bromeliaceae	Guzmania	sp.
AM285E	Guzmania sp.	Bromeliaceae	Guzmania	sp.
AM292E	Guzmania sp.	Bromeliaceae	Guzmania	sp.
AM301E	Guzmania sp.	Bromeliaceae	Guzmania	sp.
AM194E	Ludovia integrifolia	Cyclanthaceae	Ludovia	integrifolia
AM122E	Peperomia sp.	Piperaceae	Peperomia	sp.
AM211E	Philodendron davidsonii	Araceae	Philodendron	davidsonii
AM109E	Philodendron wendlandii	Araceae	Philodendron	wendlandii
AM195E	Pitcairnea wendlandii	Bromeliaceae	Pitcairnea	wendlandii
AM283E	Tillandsia bulbosa	Bromeliaceae	Tillandsia	bulbosa
AM282E	Tillandsia pruinosa	Bromeliaceae	Tillandsia	pruinosa
AM196E	Tillandsia sp.	Bromeliaceae	Tillandsia	sp.
AM295E	Tillandsia sp.	Bromeliaceae	Tillandsia	sp.
AM296E	Tillandsia sp.	Bromeliaceae	Tillandsia	sp.
AM297E	Tillandsia sp.	Bromeliaceae	Tillandsia	sp.
AM298E	Tillandsia sp.	Bromeliaceae	Tillandsia	sp.
AM299E	Tillandsia sp.	Bromeliaceae	Tillandsia	sp.
AM300E	Tillandsia sp.	Bromeliaceae	Tillandsia	sp.
AM197E	Tillandsia usneoides	Bromeliaceae	Tillandsia	usneoides

AM199E	Tradescantia zanonia	Commelinaceae	Tradescantia	zanonia
AM198E	Tradescantia zebrina	Commelinaceae	Tracescantia	zebrina
AM291E	Vriesea bicolor	Bromeliaceae	Vriesea	bicolor
AM288E	Vriesea heliconoides	Bromeliaceae	Vriesea	heliconoides
AM349E	Vriesia sp.	Bromeliaceae	Vriesia	sp.

Climbers

Lianas and climbers are gathered in this group. Lianas are in fact a very slender tree that are unable to sustain itself and therefore uses another tree to rapidly grow all the way up to the crown of the ”helper” – and there develop a crown that will compete for the light.
Climbers are also using trees to escalate using their roots to cling to the trunk. Climbers rarely emerge in crown foliage of the ”helper” but stays below in the shade.



AM078C Passiflora vittifolia, America

AM077C Gurania makoyana, America

AM202C Bauhinia guianensis, America

AM234C Philodendron verrucosum, America

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ID NO.	Name	Family	Genera	Species
AM025C	Allamanda cathartica	Apocynaceae	Allamanda	cathartica
AM200C	Aristolochia sp.	Aristolochiaceae	Aristolochia	sp.
AM495C	Aristolochia sp.	Aristolochiaceae	Aristolochia	sp.
AM496C	Aristolochia sp.	Aristolochiaceae	Aristolochia	sp.
AM494C	Aristolochia sprucei	Aristolochiaceae	Aristolochia	sprucei
AM493C	Aristolochia translucida	Aristolochiaceae	Aristolochia	translucida
AM320C	Asplundia sp.	Cyclanthaceae	Asplundia	sp.
AM323C	Asplundia sp.	Cyclanthaceae	Asplundia	sp.
AM202C	Bauhinia guianensis	Fabaceae	Bauhinia	guianensis
AM428C	Bauhinia outimouta	Caesalpiniaceae	Bauhinia	outimouta
AM128C	Byttneria aculeata	Sterculiaceae	Byttneria	aculeata
AM491C	Davilla kunthii	Dilleniaceae	Davilla	kunthii
AM382C	Fern sp.			
AM383C	Fern sp.			
AM077C	Gurania makoyana	Curcubitaceae	Gurania	makoyana
AM203C	Heteropsis oblongifolia	Araceae	Heteropsis	oblongifolia
AM334C	Heteropsis sp.	Araceae	Heteropsis	sp.
AM332C	Ipomoea pes-caprae	Convolvulaceae	Ipomoea	pes-caprae
AM204C	Monstera sp.	Araceae	Monstera	sp.
AM205C	Mucuna holtonii	Fabaceae	Mucuna	holtonii
AM206C	Mucuna mutisiana	Fabaceae	Mucuna	mutisiana
AM078C	Passiflora vittifolia	Passifloraceae	Passiflora	vittifolia
AM317C	Paullinia sp.	Sapindaceae	Paullinia	sp.
AM445C	Paullinia sp.	Sapindaceae	Paullinia	sp.
AM230C	Philodendron jodavisianum	Araceae	Philodendron	jodavisianum
AM237C	Philodendron rothschuhianum	Araceae	Philodendron	rothschuhianum
AM067C	Philodendron sp.	Araceae	Philodendron	sp.
AM068C	Philodendron sp.	Araceae	Philodendron	sp.
AM069C	Philodendron sp.	Araceae	Philodendron	sp.
AM228C	Philodendron sp.	Araceae	Philodendron	sp.
AM229C	Philodendron sp.	Araceae	Philodendron	sp.
AM231C	Philodendron sp.	Araceae	Philodendron	sp.
AM232C	Philodendron sp.	Araceae	Philodendron	sp.
AM235C	Philodendron sp.	Araceae	Philodendron	sp.
AM236C	Philodendron sp.	Araceae	Philodendron	sp.
AM326C	Philodendron sp.	Araceae	Philodendron	sp.
AM327C	Philodendron sp.	Araceae	Philodendron	sp.
AM333C	Philodendron sp.	Araceae	Philodendron	sp.
AM234C	Philodendron verrucosum	Araceae	Philodendron	verrucosum
AM208C	Smilax sp.	Smilacaeae	Smilax	sp.
AM207C	Smilax spissa	Smilacaeae	Smilax	spissa
AM209C	Stenospermation marantifolia	Araceae	Stenospermation	marantifolia
AM064C	Stenospermation sp.	Araceae	Stenospermation	sp.
AM065C	Stenospermation sp.	Araceae	Stenospermation	sp.
AM066C	Stenospermation sp.	Araceae	Stenospermation	sp.
AM238C	Syngonium angustatum	Araceae	Syngonium	angustatum
AM210C	Syngonium sp.	Araceae	Syngonium	sp.
AM328C	Syngonium sp.	Araceae	Syngonium	sp.
AM335C	Syngonium sp.	Araceae	Syngonium	sp.

Tropical Zoo Plants

GLOSSARY

Ever wonder what a distichous leaf arrangement is? Not sure what tomentum is? Then this glossary is for you! You don't have to be a palm expert to appreciate the beauty and diversity of palms, so we don't think you should have to be an expert to be able to order the seeds to grow them. In an effort to make our site more user friendly for the lay gardener, or for those who simply are not conversant with palm terminology, we have added a glossary of terms commonly used throughout this site. Included here are terms that even the good plant glossaries have left out, perhaps because the authors thought they were "too simple," and, perhaps more importantly, we have avoided using even more complex terminology in our definitions. (After all, if you are unsure what a spathe is, then will finding out it's a "sheathing bract enclosing a young inflorescence" really help you?)

The glossary includes a listing of words in the form or forms in which they are used in the site, followed by sample usage (in parenthesis) if important for clarification; the form or "part of speech" in italics (*adj.* = adjective, *adv.* = adverb, *n.* = noun, or *v.* = verb); the plural, if unusual; and finally, the definition.

Example:
spicate (~ inflorescence) *adj.* : unbranched, spike-like.

In this example, the term "spicate" is being defined. In parenthesis is an example of how spicate (the ~ symbol stands for the vocabulary word being defined, here "spicate") is used in the text, i.e. a "spicate inflorescence." Since spicate is used here to describe inflorescence, it takes the form of an adjective (adj.). The definition of spicate then follows: "unbranched, spike-like."

Note: any time the ~ symbol appears in the definition, insert the vocabulary word being defined. For instance, after the basic definition of "pinnate," we further explain what it means to be "evenly," "finely," or "sparsely" pinnate in this fashion: "evenly ~, leaflets are the same shape and distance from each other".

Term	Sample usage	Part of sp.	Definition
aerial root		*n.*	grows above ground instead of below; usually supports the trunk, then also called a "stilt root"
apex	(leaf ~, leaflet ~)	*n.*	tip
arching	(~ leaves, ~ leaflets)	*adj.*	having a curved or arch shape, not erect
armament		*n.*	protection; see also "armed"
armed		*adj.*	having spines or thorns
ascending	(~ leaves)	*adj.*	upward growing
bifid	(~ leaves, ~ leaflet apexes, ~ fibers)	*adj.*	divided or forked into two parts, or deeply notched
bipinnate	(~ leaf)	*adj.*	twice divided, featherlike leaf
blade	(leaf ~)	*n.*	flat or expanded part of the leaf; the part that is palmate or pinnate
bloom		*n.*	thin, waxy film covering the surface of a leaf or other part of a plant
bract		*n.*	leaflike structure on the inflorescence, typically protecting parts of the young inflorescence (see also "inflorescence bract," "peduncular bract," and "bracteole")
bracteole		*n.*	small bract subtending a flower (see also "bract")
branched	(~ stem, ~ inflorescence, ~ leaflet)	*adj.*	split into two or more parts
bulbous	(~ trunk)	*adj.*	bulging, swollen, bulb-shaped
cabbage	(palm ~)	*n.*	edible growth center of a palm, usually called heart-of-palm
cane		*n.*	thin or reedlike stem or trunk
cirrus		*n.*	[pl. cirri] long extention of the leaf midrib with hooks used by the plant to climb, whiplike climbing organ (see also "flagellum")
climbing palm		*n.*	has a long, thin trunk that uses other trees for support
clump		*n.*	group or cluster
clumping	(~ palm)	*adj.*	forming clumps or groups (see also "clustering" and "suckering")
clustering	(~ palm, ~ habit)	*adj.*	growing side shoots and developing into groups of stems (see also "clumping" and "suckering")
coco-fiber		*n.*	planting compost made from coconut husks
cone of stilt roots		*n.*	mass of stilt or aerial roots forming a cone shape
conical	(~ trunk)	*adj.*	shaped like a cone
conservatory		*n.*	greenhouse for tender plants
container plant		*n.*	grown in a container or pot instead of the ground, typical for nursery production
costa		*n.*	the part of the leaf stalk extending into the leaf blade in a costapalmate leaf
costapalmate	(~ leaves)	*adj.*	shaped like the palm of a hand with part of the leaf stalk extending into the leaf blade
crown		*n.*	head of leaves
crownshaft		*n.*	tubular leaf sheaths or leaf bases tightly wrapped around each other forming a cylinder on top of the trunk
cultivar		*n.*	distinct form of a plant in cultivation, for instance dwarf or variegated
cultivate		*v.*	to grow or raise, aided by humans vs. wild grown
dichotomous	(~ stem)	*adj.*	equally forking
diminutive	(~ palm)	*adj.*	undersized
distichous	(~ leaf arrangement)	*adj.*	arranged in two opposing rows on either side of a trunk
distribution		*n.*	area of natural occurance
divided	(~ leaves, ~ leaflets)	*adj.*	not entire
dwarf	(~ palm)	*adj.*	small or undersized
elliptic	(~ leaflets, ~ leaves)	*adj.*	like a flattened circle or oval in shape
endemic		*adj.*	growing only in a specific area
entire	(~ leaves, ~	*adj.*	undivided, whole

	leaflets)		
erect	(~ trunk, ~ leaves, ~ leaflets)	*adj.*	stiffly upward or upright
fan	(~ leaf)	*adj.*	palmate; shaped like the palm of a hand, semicircular or circular, with leaf segments radiating from a single point
feather	(~ leaf)	*adj.*	pinnate, divided in segments like a feather
feather-duster	(~ crown)	*adj.*	shaped like a feather-duster or shuttlecock
fibrous		*adj.*	having or made up of fibers
fissured	(~ trunk)	*adj.*	having clefts or splits
flagellum		*n.*	[pl. flagella] whiplike climbing organ with hooked spines, derived from a flower stalk. (see also "cirrus")
flange		*n.*	flat ridge or protrusion; also called a wing
flexuous		*adj.*	lax or flexible
flower		*n.*	reproductive organ
flush		*n.*	fresh, new growth
forked		*adj.*	divided into two equal parts
fronds		*n.*	leaves of palms, ferns, or the like
fruit		*n.*	seed-bearing organ
genus		*n.*	group of closely related species (for example, Trachycarpus, Sabal, Phoenix, etc.) in the Linnean system of biological taxonomy & classification
germinate		*v.*	to sprout a seed
glaucous		*adj.*	dull grayish green or blue usually created by a waxy bloom covering a surface
habit	(clustering ~)	*n.*	mode of growth
habitat		*n.*	natural environment in which a plant grows
hardy	(cold ~)	*adj.*	able to withstand adverse conditions for prolonged periods of time (see also "tolerant")
hastula		*n.*	protrusion at the joint between leafstalk and leafblade in a palmate leaf
humus	(~ rich soil)	*n.*	decomposing organic matter
hybrid		*n. or adj.*	offspring of two plants of different species or genera, not pure
inflorescence		*n.*	flower stalk
inflorescence bract		*n.*	a leaflike structure on the rachis of the flowerstalk subtending a partial flowerstalk (see also "bract")
infructescence		*n.*	fruit stalk; like an inflorescence but in fruit vs. in flower
interandean	(~ valleys)	*adj.*	dry, high altitude valleys between the main ridges of the Andes mountains in South America
internode		*n.*	space between "nodes" or points of leaf attachment on a trunk or stem
irregular	(~ly arranged)	*adv. or adj.*	unevenly arranged, leaflets are inserted at different distances from each other
lanceolate	(~ leaflets)	*adj.*	shaped like a spearhead, tapering to each end
leaf base		*n.*	lower, expanded part of the leaf that attaches to the trunk
leaf blade		*n.*	lamina; upper, expanded part of the leaf; part most commonly thought of as the leaf itself
leaf segment		*n.*	section of a palmate or costapalmate leaf
leaf sheath		*n.*	leaf base or lowest part of the leaf that is enveloping or "sheathing" the trunk. Tubular while developing, then splitting or remaining entire (if entire, then it is called a "crownshaft")
leaf stalk		*n.*	petiole; part of leaf found between the base and the blade
leaflet		*n.*	segment of a pinnate leaf
leathery		*adj.*	having a texture like leather, thick and strong vs. papery
marbled		*adj.*	showing various colors in blotches; mottled
midrib		*n.*	main vein of a leaflet
montane		*adj.*	specific zone of altitude in mountains, at least 500 m (1600 ft.)
mottled		*adj.*	having blotches of various colors; marbled
mulch		*n.*	top dressing (wood chips, peat, straw, leaves, etc.) around a plant's roots
mulch		*v.*	to apply a top dressing
nodal scar		*n.*	scar left on the stem where a leaf was attached
nodding	(~ leaves, ~ leaflets)	*adj.*	drooping
node		*n.*	point where a leaf is or was attached to the stem; see also

			"internode"
notch		*n.*	small V-shaped cut in leaf or leaflet
orbicular	(~ leaf blade)	*adj.*	spherical or circular, like an orb
palmate	(~ leaf)	*adj.*	shaped like a fan, or the palm of a hand, semicircular or circular, with leaf segments radiating from a single point
peat		*n.*	decomposed peat moss, partly carbonized
peduncle		*n.*	inflorescence stalk
peduncular bract		*n.*	a leaflike structure subtending the inflorescence stalk
pendent		*adj.*	drooping
pendulous	(~ leaflets)	*adj.*	drooping, suspended (strongly ~, hanging vertically)
petiole		*n.*	leaf stalk, located between the base and the blade
pinna		*n.*	[pl. pinnae] primary leaflet of a pinnate leaf
pinnate	(~ leaves, ~ palm)	*adj.*	featherlike in appearance with leaflets on either side of the leaf midrib [rachis] (regularly ~, leaflets are the same distance from each other; finely ~, having thin pinnae; sparsely ~, having few pinnae)
pinnule		*n.*	secondary leaflet of a bipinnate leaf
plumose	(~ leaves)	*adj.*	bushy, feathery; having leaflets orientated in different directions
pollen		*n.*	plant "sperm"
pollination		*n.*	transference of genetic material through the pollen from a male flowering organ to a female flowering organ
pot plant		*n.*	usually grown in a pot inside a house vs. in the greenhouse or outside
prickly	(~ crownshaft)	*adj.*	indicates it has spines
pseudostem		*n.*	literally "false stem," looks like a stem but is actually tightly packed leafbases
pseudotrunk		*n.*	literally "false trunk," looks like a trunk but is actually tightly packed leafbases
pubescence		*n.*	felt of hairs
rachis		*n.*	midrib of a leaf or inflorescence
recurved	(~ leaves)	*adj.*	strongly arching
regular	(~ outline)	*adj.*	even
rein		*n.*	threadlike tissue connecting the leaftips of developing leaves in pinnate palms
rhizome		*n.*	underground stem or rootstock
ring		*n.*	nodal scar
ring scars		*n.*	internodes
ringed	(~ trunk)	*adj.*	having nodal scars
roof-shaped		*adj.*	reduplicate; A-shaped in cross section (as opposed to induplicate or "valley-shaped")
root hardy		*adj.*	surviving the winter underground by the means of rhizomes, bulbs, etc
rotund		*adj.*	rounded
runners		*n.*	long, extended rhizomes
savanna		*n.*	dry tropical or subtropical grassland or very open forest
scale		*n.*	dry, flattened plates
seed		*n.*	mature ovule
seedling		*n.*	very young plant, recently germinated
segment		*n.*	section of a palmate or costapalmate leaf
self-cleaning	(~ trunk)	*adj.*	the leaves falling off completely, leaving a smooth trunk
serpentine	(~ soil)	*adj.*	mineral or rock that is rich in magnesium. Soil derived from serpentine is ultrabasic and poor in nutrients
sheath		*n.*	leaf base or lowest part of the leaf that is enveloping or "sheathing" the trunk. Tubular while developing, then splitting or remaining entire (if entire, then it is called a "crownshaft"); (see "leaf sheath")
sheathing		*v.*	enveloping the trunk or another organ of the plant
shuttlecock	(~ crown)	*adj.*	looking like a feather-duster or the tail feathers of a rooster
sickle-shaped		*adj.*	curved, wide at one end, tapering towards the other
side shoot		*n.*	sucker or sprout off the main trunk
simple	(~ leaves)	*adj.*	undivided
sinker		*n.*	the elongated leaf stalk of the first leaf (shoot) produced in some palms after germination, whose purpose is to push the plant down into the soil

site		*v.*	to place in the landscape
solitary	(~ palm, ~ stem, ~ trunk)	*adj.*	not suckering, only producing a single stem
spathe		*n.*	sheathing bract that encloses and protects the young flower stalk
species		*n.*	taxonomic group of closely related plants with common characteristics that set it apart from another group. Subdivision of a genus in the Linnean system of biological taxonomy & classification (for example, fortunei, martianus, humilis etc.; see also "genus")
sphagnum		*n.*	fresh peat moss
spicate	(~ inflorescence)	*adj.*	unbranched, spikelike
spike		*n.*	inflorescence, usually unbranched
spine		*n.*	protruding, thornlike protective organ
spreading	(~ crown)	*adj.*	expansive, not upright
sprout		*n.*	germinated seed
stalk		*n.*	see "leaf stalk," "flower stalk," etc
stem		*n.*	main axis of a plant; trunk
stilt root		*n.*	prop root, grows above ground instead of below and supports the trunk (also see: "aerial root")
stratification		*v.*	process of planting seed in moist sand and exposing it to low temperatures to trigger germination
subcanopy		*n.*	plants in a forest that grow taller than the understorey but do not quite reach the canopy
subterranean		*adj.*	underground
subtropical		*adj.*	climatic region between temperate and tropical
sucker		*n.*	sideshoot or sprout off the main trunk
suckering	(~ trunk, ~ stem)	*adj.*	clumping, clustering vs. solitary
tap root		*n.*	thick root that grows vertically into the soil to tap a source of water
taxonomy		*n.*	classification of plants or animals
temperate		*adj.*	roughly, a climate where the yearly amplitudes of temperature are greater than the daily amplitudes
tolerant		*adj.*	suggests a plant will tolerate conditions for a limited period of time but is not necessarily "hardy" towards those conditions (see also "hardy")
tomentose		*adj.*	covered with fine scales, fur, hair, or wool
tomentum		*n.*	layer of thin scales, fur, hair, or wool
toothed	(~ leaf, ~ leaflet, ~ leafstalk)	*adj.*	with toothlike edges
tristichous	(~ leaf arrangement)	*adj.*	arranged in three vertical rows on a trunk
tropical		*adj.*	roughly, a climatic area where the daily amplitudes of temperature are greater than the yearly amplitudes. Geogaphically located roughly between the Tropic of Cancer in the north and the Tropic of Capricorn in the South
trunk		*n.*	stem
trunkless		*adj.*	without a trunk or with a subterranean trunk
undergrowth		*n.*	lowest layer of plants in a forest
understorey		*n.*	lower layers of plants in a forest that do not reach the canopy and are shade loving
undivided	(~ leaves)	*adj.*	entire, whole, not broken down into segments or leaflets
undulate		*adj.*	wavy
upright	(~ crown, ~ leaves, ~ trunk)	*adj.*	erect, vertical
valley-shaped		*adj.*	induplicate; V-shaped in cross section, trough-shaped (as opposed to reduplicate or "roof-shaped")
vein		*n.*	the conducting tissue of leaves
viable		*adj.*	alive and able to germinate
wild		*n. or adj.*	n. natual habitat; adj. unaided by humans (~ collected, collected in its natual habitat vs. from cultivated plants)