

CONVENTION SUR LE COMMERCE INTERNATIONAL DES ESPECES
DE FAUNE ET DE FLORE SAUVAGES MENACEES D'EXTINCTION



Dix-neuvième session du Comité pour les plantes
Genève (Suisse), 18 – 21 avril 2011

Etude du commerce important de spécimens d'espèces de l'Annexe II

ESPECES A SELECTIONNER APRES LA COP15

1. Le présent document a été préparé par le Secrétariat.
2. Dans la résolution Conf. 12.8 (Rev. CoP13) sur *l'Etude du commerce important de spécimens d'espèces de l'Annexe II*, la Conférence des Parties:

CHARGE le Comité pour les animaux et le Comité pour les plantes, en coopération avec le Secrétariat et des spécialistes, et en consultation avec les Etats des aires de répartition, d'examiner les informations biologiques, commerciales et autres, relatives aux espèces inscrites à l'Annexe II faisant l'objet d'un commerce important, dans le but de déceler les problèmes d'application de l'Article IV, paragraphes 2 a), 3 et 6 a)...
3. Conformément au paragraphe a) de cette résolution, sous *Concernant la conduite de l'étude du commerce important*, le Secrétariat demande au PNUE-WCMC de produire un résumé des statistiques des rapports annuels fondé sur la base de données CITES, indiquant le niveau net des exportations enregistrées des espèces inscrites à l'Annexe II pour les cinq dernières années. Son rapport figure en annexe 1 au présent document (anglais seulement). Les données brutes utilisées pour préparer ce résumé sont disponibles dans le document PC19 Inf. 2.
4. Le paragraphe b) de la même section charge le Comité pour les plantes, sur la base des niveaux de commerce enregistrés et des informations dont dispose ledit Comité, le Secrétariat, les Parties ou d'autres spécialistes pertinents, de sélectionner pour étude les espèces dont il faut se préoccuper en priorité (qu'elles aient ou non fait l'objet d'une étude précédente).
5. Afin d'aider le Comité dans cette tâche de sélection et sur la base d'un analyse similaire entreprise à l'intention du Comité pour les animaux en 2008, le PNUE-WCMC a établi une procédure, fondée sur une analyse approfondie du commerce, destinée à identifier les espèces candidates pour cet examen. Cette procédure est décrite à l'annexe 2 (anglais seulement) au présent document, qui contient également un résumé de l'analyse approfondie du commerce et une liste des éventuelles espèces candidates pour l'examen ainsi identifiées.
6. Le Comité est invité à sélectionner pour étude les espèces dont il faut se préoccuper en priorité.

Recorded Net Exports of Appendix-II Flora 2004-2008

To comply with the specifications of Resolution Conf. 12.8 (Rev. CoP13), an initial data output was produced comprising net exports of Appendix-II species over the most recent five-year period for which near-complete data are available (2004-2008). Data from 2009 were excluded because at the time of the data extraction (1 December 2010), less than half of annual reports had been received (76 out of the 175 Parties to CITES). This output only contains direct trade reported as wild-collected ('W'), ranched – which has been applied to plants in the past ('R'), unknown ('U') or without a source reported. A full list of "terms" (i.e. types of specimens in trade) traded is available in the CITES Trade Database interpretation guide, see: www.unep-wcmc.org/citestrade/docs/CITESTradeDatabaseGuide_v7.pdf. Specimens traded at levels averaging less than one item over the five-year period have been excluded from the output. Quantities recorded have been rounded to the nearest decimal place, when applicable.

Taxon	Term	Unit	2004	2005	2006	2007	2008	Yearly Average
AMARYLLIDACEAE								
<i>Galanthus alpinus</i>	LIV					20		4
<i>Galanthus elwesii</i>	LIV		5700000	5700000	5600000	5700000	5104120	5560824
<i>Galanthus lagodechianus</i>	LIV					10		2
<i>Galanthus nivalis</i>	LIV			750				150
<i>Galanthus</i> spp.	LIV			1250				250
<i>Galanthus woronowii</i>	LIV		4005775	18000000	18000000	15000020	14950767	13991312.4
APOCYNACEAE								
<i>Hoodia gordonii</i>	DER				21057	360		4283.4
<i>Hoodia gordonii</i>	DER	flasks				6	12	3.6
<i>Hoodia gordonii</i>	DER	kg		124	1248	66.1	298.8	347.4
<i>Hoodia gordonii</i>	DPL				1065			213
<i>Hoodia gordonii</i>	DPL	kg		993.5	4335.4	354.3	32790.8	7694.8
<i>Hoodia gordonii</i>	EXT	kg		745	2427	140	250	712.4
<i>Hoodia gordonii</i>	LIV			20		5		5
<i>Hoodia gordonii</i>	LIV	kg		70	20.2			18.0
<i>Hoodia gordonii</i>	LVS	kg		4291.5	1500	30		1164.3
<i>Hoodia gordonii</i>	POW	kg		14711.7	55869.2	23384.5	32529.9	25299.1
<i>Hoodia gordonii</i>	ROO	kg				60		12
<i>Hoodia gordonii</i>	SEE					30010000	30000000	12002000
<i>Hoodia gordonii</i>	STE	kg		1489	880			473.8
<i>Hoodia lugardi</i>	CHP	kg		45				9
<i>Hoodia pilifera</i>	DER	kg		300				60
<i>Hoodia pilifera</i>	LIV					20		4
<i>Pachypodium bispinosum</i>	LIV		3053	1640		1640		1266.6
<i>Pachypodium brevicaulis</i>	LIV		1876	1263	1528	658	1499	1364.8
<i>Pachypodium brevicaulis</i>	SEE				100			20
<i>Pachypodium densiflorum</i>	LIV		1148	1805	1083	1275	380	1138.2
<i>Pachypodium densiflorum</i>	SEE				100			20
<i>Pachypodium geayi</i>	LIV			10	2			2.4
<i>Pachypodium horombense</i>	LIV		475	749	653	158	247	456.4
<i>Pachypodium horombense</i>	SEE				100			20

* The geographical designations employed in this Annex do not imply the expression of any opinion whatsoever on the part of the CITES Secretariat or the United Nations Environment Programme concerning the legal status of any country, territory, or area, or concerning the delimitation of its frontiers or boundaries. The responsibility for the contents of the document rests exclusively with its author.

Taxon	Term	Unit	2004	2005	2006	2007	2008	Yearly Average
<i>Pachypodium lamerei</i>	LIV		332	18	40	800		238
<i>Pachypodium makayense</i>	LIV						62	12.4
<i>Pachypodium rosulatum</i>	LIV		787	1724	569	1172	167	883.8
<i>Pachypodium rutenbergianum</i>	LIV		115	35		10		32
<i>Pachypodium rutenbergianum</i> <i>var. sofiense</i>	LIV		10	21	160			38.2
<i>Pachypodium</i> spp.	LIV		1929	1558	1159	899	813	1271.6
<i>Pachypodium</i> spp.	SEE				200		52000	10440
<i>Pachypodium succulentum</i>	LIV		362	40		40		88.4
<i>Rauvolfia serpentina</i>	LIV	kg			3000			600
<i>Rauvolfia serpentina</i>	ROO	kg	6050	3030	2100	4900	1000	3416
ARALIACEAE								
<i>Panax quinquefolius</i>	ROO			4	1			1
<i>Panax quinquefolius</i>	ROO	kg	29034.5	24950.2	28319.4	25256.1	12993.5	24110.7
ASCLEPIADACEAE								
<i>Ceropegia dimorpha</i>	LIV		10					2
BROMELIACEAE								
<i>Tillandsia</i> spp.	LIV		30	4				6.8
CACTACEAE								
<i>Astrophytum myriostigma</i>	LIV			51	1			10.4
<i>Astrophytum myriostigma</i>	SEE	kg				200		40
<i>Astrophytum</i> spp.	LIV			50				10
<i>Blossfeldia liliputana</i>	LIV					40		8
Cactaceae spp.	DPL			2690	8	298	2	599.6
Cactaceae spp.	LIV		50				10	12
Cactaceae spp.	STE		280		1750			406
<i>Carnegiea gigantea</i>	TIM		28900			2		5780.4
<i>Carnegiea gigantea</i>	TIP				80000	40000		24000
<i>Carnegiea gigantea</i>	TIP	m ³	98.1	49.1	49.1			39.3
<i>Cereus hildmannianus</i>	DPL		3	5				1.6
<i>Cereus hildmannianus</i>	SPE			5				1
<i>Cereus</i> spp.	LIV				5			1
<i>Cereus validus</i>	LIV			50				10
<i>Cleistocactus</i> spp.	DPL				24			4.8
<i>Copiapoa cinerascens</i>	STE						5	1
<i>Copiapoa cinerea</i>	STE						5	1
<i>Copiapoa montana</i>	LIV		500	1000				300
<i>Copiapoa</i> spp.	DPL		53					10.6
<i>Corryocactus brevispinus</i>	STE			70				14
<i>Corryocactus brevistylus</i>	CAR					1568		313.6
<i>Corryocactus brevistylus</i>	STE		1826	5649	2148	5208	1650	3296.2
<i>Corryocactus brevistylus</i> ssp. <i>puquiensis</i>	STE				500			100
<i>Corryocactus pulquinensis</i>	STE			300		750	400	290
<i>Coryphantha radians</i>	SEE	kg				200		40
<i>Disocactus aurantiacus</i>	LIV						5	1
<i>Disocactus</i> spp.	DPL				5			1
<i>Echinocactus platyacanthus</i>	SEE	kg				200		40
<i>Echinopsis chiloensis</i>	CAR			742			13299	2808.2
<i>Echinopsis chiloensis</i>	DPL		1				900	180.2

Taxon	Term	Unit	2004	2005	2006	2007	2008	Yearly Average
<i>Echinopsis chiloensis</i>	STE		57011	35312	36665	28180	3225	32078.6
<i>Echinopsis chiloensis</i>	STE	m				15093	13703	5759.2
<i>Echinopsis hertrichiana</i>	LIV					10		2
<i>Echinopsis mamillosa</i>	LIV			1		10		2.2
<i>Echinopsis marsoneri</i>	LIV					10		2
<i>Echinopsis pachanoi</i>	BAR	kg					70	14
<i>Echinopsis pachanoi</i>	POW	kg		2.0		136.9		27.8
<i>Echinopsis pachanoi</i>	STE		1110	830		1350	400	738
<i>Echinopsis pachanoi</i>	STE	kg				125		25
<i>Echinopsis pachanoi</i>	TIM	kg					25	5
<i>Echinopsis peruviana</i>	CAR		1730			850		516
<i>Echinopsis peruviana</i>	LIV						40	8
<i>Echinopsis peruviana</i>	STE			750	950		110	362
<i>Echinopsis peruviana ssp. puquiensis</i>	STE		1045	3460		1536	2000	1608.2
<i>Echinopsis spachiana</i>	DPL	kg	33500	10000				8700
<i>Echinopsis spp.</i>	DPL		28		18			9.2
<i>Echinopsis spp.</i>	DPL	kg	5000					1000
<i>Echinopsis spp.</i>	STE		450	654		110		242.8
<i>Echinopsis tegeleriana</i>	LIV					10		2
<i>Eriosyce chilensis</i>	LIV		5					1
<i>Eriosyce islayensis</i>	LIV					20		4
<i>Eulychnia acida</i>	CAR			2204			23163	5073.4
<i>Eulychnia acida</i>	DER					160	695	171
<i>Eulychnia acida</i>	STE		144050	97628	105426	72911	12101	86423.2
<i>Eulychnia acida</i>	STE	m				44612.0	38662	16654.8
<i>Eulychnia breviflora</i>	STE						16	3.2
<i>Eulychnia spp.</i>	DPL		71					14.2
<i>Ferocactus histrix</i>	SEE	kg				200		40
<i>Ferocactus latispinus</i>	SEE				1350000	1350000		540000
<i>Ferocactus spp.</i>	LIV			70				14
<i>Harrisia nashii</i>	DPL						50	10
<i>Hylocereus undatus</i>	LIV		600					120
<i>Mammillaria bocasana</i>	SEE	kg				200		40
<i>Mammillaria spp.</i>	LIV			150	5			31
<i>Matucana formosa</i>	LIV					10		2
<i>Matucana krahni</i>	LIV					10		2
<i>Matucana paucicostata</i>	LIV					10		2
<i>Melocactus macracanthos</i>	LIV		15					3
<i>Melocactus spp.</i>	DPL						50	10
<i>Myrtillocactus geometrizans</i>	SEE				450000	450000		180000
<i>Myrtillocactus geometrizans</i>	SEE	kg				200		40
<i>Myrtillocactus schenckii</i>	SEE	kg				200		40
<i>Obregonia denegrii</i>	SEE	kg				200		40
<i>Opuntia atacamensis</i>	LIV		6					1.2
<i>Opuntia boliviana</i>	DPL		5					1
<i>Opuntia boliviana</i>	LIV		7					1.4
<i>Opuntia caribaea</i>	DPL						50	10
<i>Opuntia cholla</i>	DPL	kg	1900					380
<i>Opuntia cholla</i>	TIP	kg	1900					380

Taxon	Term	Unit	2004	2005	2006	2007	2008	Yearly Average
<i>Opuntia conoidea</i>	LIV		11					2.2
<i>Opuntia dillenii</i>	SPE				18			3.6
<i>Opuntia echios</i>	DER						195	39
<i>Opuntia echios</i>	SPE						195	39
<i>Opuntia engelmannii</i>	FRU					60		12
<i>Opuntia ficus-indica</i>	DPL	kg	3000	3000		2000	2000	2000
<i>Opuntia ficus-indica</i>	FLO	kg	3000	7020	9000	2000	10040	6212
<i>Opuntia ficus-indica</i>	LIV	kg		1020				204
<i>Opuntia fulgida</i>	SPE					15		3
<i>Opuntia galapageia</i>	DER						12	2.4
<i>Opuntia galapageia</i>	SPE						12	2.4
<i>Opuntia imbricata</i>	TIP	kg	13736	7815	10903	8797		8250.2
<i>Opuntia insularis</i>	DER						10	2
<i>Opuntia insularis</i>	SPE						10	2
<i>Opuntia leucotricha</i>	LIV		2230					446
<i>Opuntia megasperma</i>	DER						5	1
<i>Opuntia megasperma</i>	SPE						5	1
<i>Opuntia moniliformis</i>	DPL						50	10
<i>Opuntia robusta</i>	FRU	kg			1292.4			258.5
<i>Opuntia robusta</i>	POW	flasks			6960			1392
<i>Opuntia sphaerica</i>	LIV		5					1
<i>Opuntia spp.</i>	DER					7080		1416
<i>Opuntia spp.</i>	DER	flasks					6960	1392
<i>Opuntia spp.</i>	DPL		82	1				16.6
<i>Opuntia spp.</i>	LIV		23	50				14.6
<i>Opuntia spp.</i>	SPE				46			9.2
<i>Opuntia spp.</i>	STE						4800	960
<i>Opuntia spp.</i>	STE	kg					30000	6000
<i>Opuntia spp.</i>	TIM	kg		10723		54727		13090
<i>Opuntia spp.</i>	TIP	kg	5000	13552	82100	75000		35130.4
<i>Opuntia streptacantha</i>	DPL	kg	7		300		300	121.4
<i>Opuntia streptacantha</i>	EXT	kg			300			60
<i>Opuntia streptacantha</i>	STE	kg					300	60
<i>Opuntia streptacantha</i>	TIP	kg	7					1.4
<i>Opuntia subulata</i>	STE		15356	1400				3351.2
<i>Oreocereus spp.</i>	DPL		13		2			3
<i>Oroya peruviana</i>	LIV					20		4
<i>Pachycereus schottii</i>	STE					10	3	2.6
<i>Parodia concinna</i>	DPL		5	1				1.2
<i>Parodia erinacea</i>	DPL		2	3				1
<i>Parodia erinacea</i>	LIV					20		4
<i>Parodia mammulosa</i>	DPL		10	10				4
<i>Parodia ottonis</i>	DPL		11	13				4.8
<i>Parodia scopa</i>	DPL		3	2				1
<i>Parodia sellowii</i>	DPL		8	8				3.2
<i>Parodia spp.</i>	DPL		10	6	2			3.6
<i>Pelecyphora strobiliformis</i>	SEE	kg				200		40
<i>Pilosocereus spp.</i>	LIV			50				10
<i>Polaskia chende</i>	SEE	kg				200		40

<i>Taxon</i>	<i>Term</i>	<i>Unit</i>	2004	2005	2006	2007	2008	Yearly Average
<i>Polaskia chichipe</i>	SEE	kg				200		40
<i>Rebutia albopectinata</i>	LIV					10		2
<i>Rebutia mentosa</i>	LIV					10		2
<i>Rebutia</i> spp.	LIV			100				20
<i>Rhipsalis baccifera</i>	DPL			3	1	5		1.8
<i>Rhipsalis</i> spp.	DPL			5	5	3		2.6
<i>Rhipsalis</i> spp.	SPE				5			1
<i>Schlumbergera</i> spp.	LIV			4			6	2
<i>Sclerocactus</i> spp.	LIV			20			5	5
<i>Selenicereus grandiflorus</i>	DPL	kg	1200	4000				1040
<i>Selenicereus grandiflorus</i>	FLO	kg	4000					800
<i>Stenocereus alamosensis</i>	STE					20	13	6.6
<i>Stenocereus gummosus</i>	STE					20	10	6
<i>Stenocereus thurberi</i>	STE					5	10	3
CYATHEACEAE								
<i>Alsophila</i> spp.	DPL		14					2.8
<i>Cyathea alata</i>	DPL				12			2.4
<i>Cyathea albida</i>	LVS			12				2.4
<i>Cyathea appendiculata</i>	LVS			10				2
<i>Cyathea arborea</i>	DPL	m ³	139.0			26		33.0
<i>Cyathea australis</i>	LIV		377	194	345	341	320	315.4
<i>Cyathea bellisquamata</i>	LVS			8				1.6
<i>Cyathea boivini</i>	LVS			6				1.2
<i>Cyathea borbonica</i>	LVS			6				1.2
<i>Cyathea borinquena</i>	LIV				40			8
<i>Cyathea brownii</i>	LIV		10			10		4
<i>Cyathea caracasana</i>	DPL		2	3				1
<i>Cyathea concinna</i>	DPL	kg	23200					4640
<i>Cyathea contaminans</i>	CHP	kg					56700	11340
<i>Cyathea contaminans</i>	DER					1250		250
<i>Cyathea contaminans</i>	DPL					42700		8540
<i>Cyathea contaminans</i>	DPL	kg	53500		69986	77150		40127.2
<i>Cyathea contaminans</i>	TIM	kg	400000			505141.6	299549.8	240938.3
<i>Cyathea cooperi</i>	DPL			14	5			3.8
<i>Cyathea cooperi</i>	LIV		440	1251	1284			595
<i>Cyathea cunninghamii</i>	LIV		1194	10	25	1773		600.4
<i>Cyathea dealbata</i>	LIV		760	287	99	2560	350	811.2
<i>Cyathea decrescens</i>	LVS			22				4.4
<i>Cyathea dregei</i>	LIV					20		4
<i>Cyathea lepifera</i>	CHP					2072		414.4
<i>Cyathea lepifera</i>	DPL		5	20852				4171.4
<i>Cyathea lepifera</i>	LIV					620		124
<i>Cyathea lepifera</i>	POW					57		11.4
<i>Cyathea lepifera</i>	TIM					1100		220
<i>Cyathea lunulata</i>	DPL		10					2
<i>Cyathea madagascariensis</i>	LVS			6				1.2
<i>Cyathea medullaris</i>	DPL	kg					1000	200
<i>Cyathea medullaris</i>	LIV		611	294	178	3294	425	960.4
<i>Cyathea medullaris</i>	POW	kg					2000	400

<i>Taxon</i>	<i>Term</i>	<i>Unit</i>	2004	2005	2006	2007	2008	Yearly Average
<i>Cyathea sechellarum</i>	SPE					11		2.2
<i>Cyathea similis</i>	LVS			6				1.2
<i>Cyathea smithii</i>	LIV		603	211	153	1750	95	562.4
<i>Cyathea</i> spp.	CHP	kg		161375	38950			40065
<i>Cyathea</i> spp.	DPL		335	44	128	399	25039	5189
<i>Cyathea</i> spp.	DPL	kg	11400	6720	33573.5	14308	5990	14398.3
<i>Cyathea</i> spp.	DPL	m ³		96.9		123.8	230.4	90.2
<i>Cyathea</i> spp.	LIV		8	8166		260		1686.8
<i>Cyathea</i> spp.	LVS			38				7.6
<i>Cyathea</i> spp.	SPE						64	12.8
<i>Cyathea</i> spp.	TIM					150		30
<i>Cyathea</i> spp.	TIM	kg		990816.7				198163.3
<i>Cyathea tomentosissima</i>	LIV				25			5
Cyatheaceae spp.	DPL		4832	426	480	600	16	1270.8
Cyatheaceae spp.	LIV					143	3	29.2
Cyatheaceae spp.	SPE				19	19		7.6
CYCADACEAE								
Cycadaceae spp.	DPL					5		1
Cycadaceae spp.	SEE						15000	3000
<i>Cycas angulata</i>	LIV		8	3				2.2
<i>Cycas media</i>	LIV		250					50
<i>Cycas pectinata</i>	LIV			1016				203.2
<i>Cycas revoluta</i>	LIV						295	59
<i>Cycas rumphii</i>	SEE			500				100
<i>Cycas</i> spp.	DPL					70		14
<i>Cycas</i> spp.	LIV		4	3000				600.8
<i>Cycas</i> spp.	SEE				160			32
<i>Cycas thouarsii</i>	LIV		2001	3070		150	1	1044.4
<i>Cycas thouarsii</i>	SEE	kg		315				63
DICKSONIACEAE								
<i>Calochlaena</i> spp.	DPL			12				2.4
<i>Calochlaena straminea</i>	DPL				12			2.4
<i>Cibotium barometz</i>	DER	kg	1217.8	44.9				252.5
<i>Cibotium barometz</i>	LIV				6			1.2
<i>Cibotium barometz</i>	ROO	kg	69600	136000	79021.5	61000	69450	83014.3
<i>Cibotium barometz</i>	TIP	kg				500		100
<i>Dicksonia antarctica</i>	LIV					456		91.2
<i>Dicksonia</i> spp.	DPL		3	12	6	7	5	6.6
<i>Dicksonia</i> spp.	LIV			5	350			71
Dicksoniaceae spp.	DPL					24		4.8
Dicksoniaceae spp.	LIV				350			70
DIDIEREACEAE								
<i>Alluaudia ascendens</i>	LIV		7	106	2	720		167
<i>Alluaudia comosa</i>	LIV		4	89	40			26.6
<i>Alluaudia dumosa</i>	LIV		1		2	40		8.6
<i>Alluaudia montagnacii</i>	LIV		4	6				2
<i>Alluaudia procera</i>	LIV		2	2	2	27		6.6
<i>Alluaudiopsis fiherenensis</i>	LIV		2	10	215			45.4
<i>Alluaudiopsis marnieriana</i>	LIV		2		3			1

<i>Taxon</i>	<i>Term</i>	<i>Unit</i>	2004	2005	2006	2007	2008	Yearly Average
<i>Decarya madagascariensis</i>	LIV		3	2				1
<i>Didierea madagascariensis</i>	LIV		103	29				26.4
<i>Didierea trollii</i>	LIV		8	24		60		18.4
EUPHORBIACEAE								
<i>Euphorbia abyssinica</i>	LIV		84330	100500				36966
<i>Euphorbia albipollinifera</i>	LIV					25		5
<i>Euphorbia alfredii</i>	LIV				165			33
<i>Euphorbia analalavensis</i>	CUL			8				1.6
<i>Euphorbia ankarensis</i>	LIV		159	275	95	82		122.2
<i>Euphorbia antisiphilitica</i>	DPL	kg					15000	3000
<i>Euphorbia antisiphilitica</i>	EXT	kg			19500			3900
<i>Euphorbia antisiphilitica</i>	WAX	kg	417151	430525	393525	689200	1005865	587253.2
<i>Euphorbia antso</i>	LIV			20	20	5		9
<i>Euphorbia astrophora</i>	LIV					25		5
<i>Euphorbia aureoviridiflora</i>	LIV		4	103	5		100	42.4
<i>Euphorbia banae</i>	LIV		65	3	6			14.8
<i>Euphorbia beharensis</i>	LIV			100	3			20.6
<i>Euphorbia berorohae</i>	LIV			100	60			32
<i>Euphorbia biaculeata</i>	LIV		27					5.4
<i>Euphorbia bongolavensis</i>	LIV		282	165	155	10		122.4
<i>Euphorbia braunsii</i>	LIV					15		3
<i>Euphorbia bulbispina</i>	LIV		100	2	71			34.6
<i>Euphorbia bupleurifolia</i>	LIV					5		1
<i>Euphorbia canariensis</i>	LIV			49000				9800
<i>Euphorbia capmanambatoensis</i>	LIV			101	25	5		26.2
<i>Euphorbia clavarioides</i>	LIV			10				2
<i>Euphorbia colliculina</i>	LIV					62		12.4
<i>Euphorbia crassipes</i>	LIV					25		5
<i>Euphorbia croizatii</i>	LIV		3	50	102	200		71
<i>Euphorbia denisiana</i>	LIV			63	3			13.2
<i>Euphorbia didiereoides</i>	LIV			5	3			1.6
<i>Euphorbia duranii</i>	LIV		24	118	36			35.6
<i>Euphorbia elliotii</i>	LIV		13					2.6
<i>Euphorbia famatamboay</i>	LIV			50	50			20
<i>Euphorbia fianarantsoae</i>	LIV		7	145	21			34.6
<i>Euphorbia fusca</i>	LIV					60		12
<i>Euphorbia genoudiana</i>	LIV		13					2.6
<i>Euphorbia geroldii</i>	LIV				7	2120		425.4
<i>Euphorbia gorgonis</i>	LIV					15		3
<i>Euphorbia gottlebei</i>	LIV			10				2
<i>Euphorbia gracilicaulis</i>	LIV						100	20
<i>Euphorbia guillauminiana</i>	LIV		739	188	118	218	120	276.6
<i>Euphorbia hedyotoides</i>	LIV		179	234	99	75	60	129.4
<i>Euphorbia herman-schwartzii</i>	LIV			100	163			52.6
<i>Euphorbia hofstaetteri</i>	LIV		200	5	102	14		64.2
<i>Euphorbia horombensis</i>	LIV		39	60	126			45
<i>Euphorbia iharanae</i>	LIV			15		200		43
<i>Euphorbia ingens</i>	LIV			400				80
<i>Euphorbia itremensis</i>	LIV			535	225	290	125	235

Taxon	Term	Unit	2004	2005	2006	2007	2008	Yearly Average
<i>Euphorbia kondoi</i>	LIV		386		110	15	10	104.2
<i>Euphorbia labatii</i>	LIV			295	268	150		142.6
<i>Euphorbia lactea</i>	LIV		20750	2000				4550
<i>Euphorbia leandriana</i>	LIV			500				100
<i>Euphorbia leucodendron</i>	LIV		4	1				1
<i>Euphorbia leuconeura</i>	LIV		100		55			31
<i>Euphorbia lophogona</i>	LIV		2	5605	20	750		1275.4
<i>Euphorbia mahabobokensis</i>	LIV		9	157	83		50	59.8
<i>Euphorbia mainty</i>	LIV						100	20
<i>Euphorbia mangokyensis</i>	LIV			10	16			5.2
<i>Euphorbia milii</i>	LIV		307	162	58	10		107.4
<i>Euphorbia milii</i> var. <i>roseana</i>	LIV		6					1.2
<i>Euphorbia millotii</i>	LIV						100	20
<i>Euphorbia monteiri</i>	LIV				5			1
<i>Euphorbia multiceps</i>	LIV					81		16.2
<i>Euphorbia multifolia</i>	LIV					129		25.8
<i>Euphorbia neobosseri</i>	LIV			50	49			19.8
<i>Euphorbia neohumbertii</i>	LIV		5	195	20			44
<i>Euphorbia pachypodioides</i>	LIV		31	333	205	65		126.8
<i>Euphorbia paulianii</i>	LIV		1		50			10.2
<i>Euphorbia pedilanthoides</i>	LIV		255	108	225	35		124.6
<i>Euphorbia perrieri</i>	LIV		5	10	150	20		37
<i>Euphorbia poissonii</i>	DPL			100				20
<i>Euphorbia poissonii</i>	LIV		200	100				60
<i>Euphorbia primulifolia</i>	LIV		3322	1478	386	292	694	1234.4
<i>Euphorbia primulifolia</i> var. <i>begardii</i>	LIV		25			200		45
<i>Euphorbia razafindratsirae</i>	LIV		147	10	8	43	10	43.6
<i>Euphorbia razafinjohanii</i>	LIV				5			1
<i>Euphorbia resinifera</i>	EXT	kg	12		25			7.4
<i>Euphorbia robivelonae</i>	LIV				11			2.2
<i>Euphorbia rossii</i>	LIV		250		21			54.2
<i>Euphorbia sakarahaensis</i>	LIV		160	170	18	24		74.4
<i>Euphorbia schoenlandii</i>	LIV				7	75		16.4
<i>Euphorbia silenifolia</i>	LIV		150					30
<i>Euphorbia</i> spp.	CUL			20				4
<i>Euphorbia</i> spp.	DPL		14	17	142	69	22	52.8
<i>Euphorbia</i> spp.	LIV		1957	3759	265	325	22	1265.6
<i>Euphorbia</i> spp.	SEE						600	120
<i>Euphorbia</i> spp.	SPE						68	13.6
<i>Euphorbia stellata</i>	LIV		1080					216
<i>Euphorbia stellispina</i>	LIV					65		13
<i>Euphorbia susannae</i>	LIV			170		40		42
<i>Euphorbia susannae-marnierae</i>	LIV		81	809	53	30	30	200.6
<i>Euphorbia tirucalli</i>	LIV		108		5005			1022.6
<i>Euphorbia trichadenia</i>	LIV				6			1.2
<i>Euphorbia trigona</i>	LIV		12000	7350				3870
<i>Euphorbia venenifica</i>	DPL			150				30
<i>Euphorbia venenifica</i>	LIV		200	150				70
<i>Euphorbia viguieri</i>	LIV		8	12	10	300		66

<i>Taxon</i>	<i>Term</i>	<i>Unit</i>	2004	2005	2006	2007	2008	Yearly Average
<i>Euphorbia waringiae</i>	LIV			274	33	3860	10	835.4
HAEMODORACEAE								
<i>Anigozanthos rufus</i>	DPL					375		75
LEGUMINOSAE								
<i>Pericopsis elata</i>	CAR					15		3
<i>Pericopsis elata</i>	TIM						140.4	28.1
<i>Pericopsis elata</i>	TIM	m ²			4098.8	3953.4		1610.4
<i>Pericopsis elata</i>	TIM	m ³	13533.7	17380.5	21846.5	28661.1	23300.3	20944.4
<i>Pterocarpus santalinus</i>	LOG	kg				25000	177490	40498
<i>Pterocarpus santalinus</i>	TIM	m ³			2933.2			586.6
LILIACEAE								
<i>Aloe acutissima</i>	LIV			14		4		3.6
<i>Aloe antandroi</i>	LIV		17					3.4
<i>Aloe arborescens</i>	EXT	kg	13400	6000			10600	6000
<i>Aloe arborescens</i>	LIV			3000		200		640
<i>Aloe aristata</i>	LIV			10				2
<i>Aloe barbertoniae</i>	LIV		7		3006	1		602.8
<i>Aloe capitata</i>	LIV		8	16				4.8
<i>Aloe castanea</i>	LIV			20	5		1	5.2
<i>Aloe ciliaris</i>	LIV			1		200		40.2
<i>Aloe conifera</i>	LIV		2	62	2			13.2
<i>Aloe deltoideodonta</i>	LIV		6	4800	5	510		1064.2
<i>Aloe divaricata</i>	LIV		20	12	2			6.8
<i>Aloe ecklonis</i>	LIV			10				2
<i>Aloe erythrophylla</i>	LIV		5	15				4
<i>Aloe ferox</i>	DPL		20735	1500				4447
<i>Aloe ferox</i>	EXT		17098	24165	55375	17352	23214.4	27440.9
<i>Aloe ferox</i>	EXT	flasks	489					97.8
<i>Aloe ferox</i>	EXT	kg	381136.7	447771.4	618116.8	423025.7	439103.3	461830.8
<i>Aloe ferox</i>	EXT	l	121500.4	102641.1	55883.6	85253.1	51050	83265.6
<i>Aloe ferox</i>	EXT	shipments		40	2			8.4
<i>Aloe ferox</i>	FIB	kg	200	1				40.2
<i>Aloe ferox</i>	LIV			25		202	1	45.6
<i>Aloe ferox</i>	LVS		90590	74856	71900	108190	69625	83032.2
<i>Aloe ferox</i>	LVS	kg		3000	6881.7	24043	33115.1	13408.0
<i>Aloe ferox</i>	STE			3692				738.4
<i>Aloe ferox</i>	TIP		107383	83309	92908			56720
<i>Aloe ferox</i>	TIP	kg	7500					1500
<i>Aloe fleurentinorum</i>	LIV					200		40
<i>Aloe fragilis</i>	LIV					300		60
<i>Aloe guillaumetii</i>	LIV			22				4.4
<i>Aloe humbertii</i>	LIV		15	7				4.4
<i>Aloe ibitiensis</i>	LIV		2	10				2.4
<i>Aloe imalotensis</i>	LIV		6	10				3.2
<i>Aloe itremensis</i>	DPL						7	1.4
<i>Aloe macroclada</i>	LIV			4	1	4		1.8
<i>Aloe perrieri</i>	LIV					250		50
<i>Aloe plicatilis</i>	LIV				500			100
<i>Aloe polyphylla</i>	LIV			30				6

<i>Taxon</i>	<i>Term</i>	<i>Unit</i>	2004	2005	2006	2007	2008	Yearly Average
<i>Aloe pratenis</i>	LIV			10				2
<i>Aloe pretoriensis</i>	LIV			18			1	3.8
<i>Aloe prostrata</i>	LIV			6				1.2
<i>Aloe spp.</i>	DPL		7	56	1		6	14
<i>Aloe spp.</i>	LIV		406	96	230	384	130	249.2
<i>Aloe spp.</i>	SEE						1300	260
<i>Aloe suarezensis</i>	LIV		5	6				2.2
<i>Aloe trachyticola</i>	LIV		23	20				8.6
<i>Aloe vanbalenii</i>	LIV				9			1.8
<i>Aloe vaombe</i>	LIV			5	2			1.4
MELIACEAE								
<i>Swietenia humilis</i>	TIM	m ³				121.1	401.0	104.4
<i>Swietenia macrophylla</i>	CAR		50	2	1			10.6
<i>Swietenia macrophylla</i>	LVS		101					20.2
<i>Swietenia macrophylla</i>	PLY	m ³				14.9		3.0
<i>Swietenia macrophylla</i>	TIM		54.4	9				12.7
<i>Swietenia macrophylla</i>	TIM	m ²				14900	5340	4048
<i>Swietenia macrophylla</i>	TIM	m ³	352313.5	48535.9	40319.4	32898.3	48975.2	104608.5
NEPENTHACEAE								
<i>Nepenthes albo-marginata</i>	DPL				12			2.4
<i>Nepenthes ampullaria</i>	DPL				20	4		4.8
<i>Nepenthes ampullaria</i>	LIV				10	35		9
<i>Nepenthes bellii</i>	LIV			1		4		1
<i>Nepenthes bicalcarata</i>	DPL		7	110	167			56.8
<i>Nepenthes bicalcarata</i>	LIV			21		5		5.2
<i>Nepenthes gracilis</i>	DPL				22	3		5
<i>Nepenthes hirsuta</i>	LIV					15		3
<i>Nepenthes maxima</i>	LIV			1		18		3.8
<i>Nepenthes mirabilis</i>	DPL				13			2.6
<i>Nepenthes mirabilis</i>	LIV		82			12		18.8
<i>Nepenthes mirabilis</i>	SPE			1000				200
<i>Nepenthes rafflesiana</i>	DPL			5	49	7		12.2
<i>Nepenthes rafflesiana</i>	LIV					34		6.8
<i>Nepenthes spp.</i>	LIV					47	704	150.2
<i>Nepenthes sumatrana</i>	LIV			2		10		2.4
<i>Nepenthes truncata</i>	LIV			1		20		4.2
<i>Nepenthes veitchii</i>	LIV			1		10		2.2
<i>Nepenthes ventricosa</i>	LIV					14		2.8
ORCHIDACEAE								
<i>Aa spp.</i>	DPL					7	2	1.8
<i>Acampe pachyglossa</i>	LIV				30			6
<i>Acriopsis spp.</i>	LIV						6	1.2
<i>Acrolophia spp.</i>	LIV		5					1
<i>Ada spp.</i>	DPL					4	2	1.2
<i>Aerangis articulata</i>	LIV			30	5		30	13
<i>Aerangis citrata</i>	FRU				15			3
<i>Aerangis citrata</i>	LIV		3	150	57		2	42.4
<i>Aerangis cryptodon</i>	LIV		5	61		23		17.8
<i>Aerangis curnowiana</i>	LIV		5	110	17	23		31

<i>Taxon</i>	<i>Term</i>	<i>Unit</i>	2004	2005	2006	2007	2008	Yearly Average
<i>Aerangis decaryana</i>	LIV			52	12			12.8
<i>Aerangis decaryana</i>	SEE				5			1
<i>Aerangis ellisii</i>	LIV		2	27				5.8
<i>Aerangis fastuosa</i>	LIV		6	217	70	9	2	60.8
<i>Aerangis fastuosa</i>	SEE				5			1
<i>Aerangis fuscata</i>	LIV			46	13	3	10	14.4
<i>Aerangis hyaloides</i>	FRU			15				3
<i>Aerangis hyaloides</i>	LIV			100	39	18	2	31.8
<i>Aerangis hyaloides</i>	SEE				5			1
<i>Aerangis macrocentra</i>	LIV			180	6		2	37.6
<i>Aerangis modesta</i>	LIV		3	19	3		10	7
<i>Aerangis mooreana</i>	SEE				5			1
<i>Aerangis pallidiflora</i>	SEE				5			1
<i>Aerangis punctata</i>	FRU			12				2.4
<i>Aerangis punctata</i>	LIV			7	52			11.8
<i>Aerangis punctata</i>	SEE				5			1
<i>Aerangis spiculata</i>	SEE				5			1
<i>Aerangis</i> spp.	DPL		3			2		1
<i>Aerangis</i> spp.	LIV		119			4		24.6
<i>Aerangis stylosa</i>	LIV			175	61	4		48
<i>Aeranthus arachnitis</i>	LIV			35				7
<i>Aeranthus caudata</i>	LIV			12		5		3.4
<i>Aeranthus dentiens</i>	FRU			5				1
<i>Aeranthus filipes</i>	LIV			52				10.4
<i>Aeranthus grandiflora</i>	LIV		6	40	5	5	13	13.8
<i>Aeranthus henrici</i>	LIV		4	132	56	34	32	51.6
<i>Aeranthus henrici</i>	LVS		8			201		41.8
<i>Aeranthus henrici</i>	SEE				15		27	8.4
<i>Aeranthus henrici</i>	SPE						5	1
<i>Aeranthus longipes</i>	LIV		9	22				6.2
<i>Aeranthus nidus</i>	LIV			26	3			5.8
<i>Aeranthus parvula</i>	LIV				110			22
<i>Aeranthus peyrotii</i>	LIV			10			1	2.2
<i>Aeranthus ramosa</i>	LIV		3	142	22	22	46	47
<i>Aeranthus</i> spp.	DPL			5	1	6		2.4
<i>Aeranthus</i> spp.	FRU				44			8.8
<i>Aeranthus</i> spp.	LIV		8	1				1.8
<i>Aeranthus</i> spp.	SEE	µg		7.5				1.5
<i>Aeranthus tricalcarata</i>	LIV			40	10			10
<i>Aerides falcatum</i>	LIV		30					6
<i>Aerides multiflorum</i>	LIV		76	20				19.2
<i>Aerides odoratum</i>	LIV		40		20			12
<i>Aerides rubescens</i>	LIV		60					12
<i>Agrostophyllum</i> spp.	LIV						55	11
<i>Angraecum ankeranense</i>	LIV				10			2
<i>Angraecum baronii</i>	SEE				8			1.6
<i>Angraecum bicallosum</i>	LIV			30				6
<i>Angraecum breve</i>	FRU			10				2
<i>Angraecum breve</i>	LIV			135	12		10	31.4

<i>Taxon</i>	<i>Term</i>	<i>Unit</i>	2004	2005	2006	2007	2008	Yearly Average
<i>Angraecum calceolus</i>	LIV			5				1
<i>Angraecum chamaeanthus</i>	SEE				10			2
<i>Angraecum compactum</i>	LIV			35	2	20	21	15.6
<i>Angraecum dendrobiopsis</i>	LIV				10			2
<i>Angraecum didieri</i>	LIV			160	3			32.6
<i>Angraecum drouhardii</i>	FRU				10			2
<i>Angraecum drouhardii</i>	LIV			125	41		20	37.2
<i>Angraecum eburneum</i>	LIV		3	14	20	2	2	8.2
<i>Angraecum eburneum ssp. superbum</i>	LIV			6		2	2	2
<i>Angraecum eburneum ssp. superbum var. longicalcar</i>	DPL		3	10				2.6
<i>Angraecum eburneum ssp. superbum var. longicalcar</i>	LIV		2	4	1			1.4
<i>Angraecum elephantinum</i>	FRU				21			4.2
<i>Angraecum elephantinum</i>	LIV			105	7			22.4
<i>Angraecum equitans</i>	LIV		6	10	36		15	13.4
<i>Angraecum filicornu</i>	FRU			15	8			4.6
<i>Angraecum filicornu</i>	LIV			5	3			1.6
<i>Angraecum germinyanum</i>	LIV			25	52	3	15	19
<i>Angraecum leonis</i>	LIV			123	4	1	5	26.6
<i>Angraecum letouzeyi</i>	SEE				10			2
<i>Angraecum linearifolium</i>	SEE				10			2
<i>Angraecum madagascariense</i>	DPL		5	1				1.2
<i>Angraecum magdalenae</i>	LIV		3	31	36	3		14.6
<i>Angraecum mahavavense</i>	LIV			2	10			2.4
<i>Angraecum musculiferum</i>	SEE				8			1.6
<i>Angraecum obesum</i>	LIV			70	11	20	20	24.2
<i>Angraecum oblongifolium</i>	SEE				5			1
<i>Angraecum panicifolium</i>	DPL			2		3		1
<i>Angraecum popowii</i>	FRU				12			2.4
<i>Angraecum praestans</i>	FRU			10				2
<i>Angraecum praestans</i>	LIV			56	60			23.2
<i>Angraecum praestans</i>	SEE				10			2
<i>Angraecum protensum</i>	FRU			5				1
<i>Angraecum protensum</i>	LIV			30				6
<i>Angraecum pseudofilicornu</i>	LIV			28		3	10	8.2
<i>Angraecum pumilio</i>	LIV			6				1.2
<i>Angraecum ramosum</i>	LIV			6		1	10	3.4
<i>Angraecum rutenbergianum</i>	FRU				25			5
<i>Angraecum rutenbergianum</i>	LIV			62	13	4	20	19.8
<i>Angraecum scottianum</i>	LIV			143	82			45
<i>Angraecum sesquipedale</i>	LIV		3	22	2	4	2	6.6
<i>Angraecum sesquipedale</i>	LVS					18	150	33.6
<i>Angraecum sororium</i>	LIV		3	10	8		10	6.2
<i>Angraecum spp.</i>	DPL		20	16	1	12	2	10.2
<i>Angraecum spp.</i>	FRU				14			2.8
<i>Angraecum spp.</i>	LIV		127		21		10	31.6
<i>Angraecum spp.</i>	LVS		12					2.4
<i>Angraecum spp.</i>	SEE	µg		9				1.8
<i>Angraecum spp.</i>	SPE	kg					6.6	1.3

<i>Taxon</i>	<i>Term</i>	<i>Unit</i>	2004	2005	2006	2007	2008	Yearly Average
<i>Angraecum teretifolium</i>	FRU				5			1
<i>Angraecum teretifolium</i>	LIV			196	9	22	20	49.4
<i>Angraecum triquetrum</i>	LIV			100				20
<i>Angraecum urschianum</i>	FRU			4	1			1
<i>Angraecum viguieri</i>	LIV			30	3	21	20	14.8
<i>Anguloa uniflora</i>	SPE		1				4	1
<i>Appendicula</i> spp.	LIV						20	4
<i>Arpophyllum giganteum</i>	LIV		150					30
<i>Ascocentrum ampullaceum</i>	LIV		5					1
<i>Ascocentrum miniatum</i>	LIV		11			5		3.2
<i>Beclardia macrostachya</i>	FRU				6			1.2
<i>Beclardia macrostachya</i>	LIV			25	13	13		10.2
<i>Bletia florida</i>	LIV				10	4		2.8
<i>Bletia patula</i>	LIV		5					1
<i>Bonatea</i> spp.	LIV		25					5
<i>Bothriochilus bellus</i>	LIV		25	20				9
<i>Brachycorythis</i> spp.	LIV		13					2.6
<i>Brachypeza indusiata</i>	LVS						5	1
<i>Brassavola cordata</i>	LIV		1		4	1		1.2
<i>Brassavola grandiflora</i>	LIV		25					5
<i>Brassavola nodosa</i>	LIV		1488	555	400			488.6
<i>Brassavola tuberculata</i>	LIV						10	2
<i>Brassia arcuigera</i>	LVS		6					1.2
<i>Brassia caudata</i>	LIV		62	6	10	4		16.4
<i>Brassia maculata</i>	LIV		303		100			80.6
<i>Brassia</i> spp.	LIV		5					1
<i>Brassia</i> spp.	LVS		6					1.2
<i>Broughtonia negrilensis</i>	LIV			7				1.4
<i>Broughtonia sanguinea</i>	LIV		2		8			2
<i>Bulbophyllum affine</i>	LIV		5					1
<i>Bulbophyllum afzelii</i>	SEE				8			1.6
<i>Bulbophyllum alexandrae</i>	LIV		1		5	10	1	3.4
<i>Bulbophyllum antenniferum</i>	LIV				10			2
<i>Bulbophyllum baronii</i>	DPL		1	1		3	1	1.2
<i>Bulbophyllum baronii</i>	LIV				7		10	3.4
<i>Bulbophyllum boiteaui</i>	LIV		15		10			5
<i>Bulbophyllum coccinatum</i>	SEE				8			1.6
<i>Bulbophyllum complanatum</i>	SEE				8			1.6
<i>Bulbophyllum conchidioides</i>	SEE				5			1
<i>Bulbophyllum coriophorum</i>	DPL			3		2		1
<i>Bulbophyllum coriophorum</i>	LIV		5		5		22	6.4
<i>Bulbophyllum dearei</i>	LIV				20			4
<i>Bulbophyllum elliotii</i>	LIV		5					1
<i>Bulbophyllum erectum</i>	LIV				10			2
<i>Bulbophyllum hamelinii</i>	LIV		5	75	20	10	20	26
<i>Bulbophyllum hamelinii</i>	SEE				8			1.6
<i>Bulbophyllum humbertii</i>	LIV			20	10			6
<i>Bulbophyllum insolitum</i>	SEE				11			2.2
<i>Bulbophyllum lakatoense</i>	SEE				10			2

Taxon	Term	Unit	2004	2005	2006	2007	2008	Yearly Average
<i>Bulbophyllum leandrianum</i>	LIV		24					4.8
<i>Bulbophyllum lemniscatoides</i>	LIV		6					1.2
<i>Bulbophyllum lepidum</i>	LIV		5					1
<i>Bulbophyllum lichenophylax</i>	SEE				10			2
<i>Bulbophyllum lobbii</i>	LIV				15			3
<i>Bulbophyllum longiflorum</i>	FRU				9			1.8
<i>Bulbophyllum macranthum</i>	LIV		5					1
<i>Bulbophyllum mandibulare</i>	LIV				30			6
<i>Bulbophyllum mangelotii</i>	SEE				10			2
<i>Bulbophyllum megalonyx</i>	LIV				35			7
<i>Bulbophyllum microglossum</i>	LIV				30			6
<i>Bulbophyllum namoronae</i>	SEE				6			1.2
<i>Bulbophyllum occlusum</i>	LIV			40	15	10	11	15.2
<i>Bulbophyllum occultum</i>	LIV		1	5				1.2
<i>Bulbophyllum pachypus</i>	LIV		1	25	30			11.2
<i>Bulbophyllum pleurothallopsis</i>	SEE				5			1
<i>Bulbophyllum refractum</i>	LIV		6					1.2
<i>Bulbophyllum rubrum</i>	LIV			25	35			12
<i>Bulbophyllum rufinum</i>	LIV		5					1
<i>Bulbophyllum septatum</i>	LIV			37	13			10
<i>Bulbophyllum</i> spp.	DPL		16	24	90	77		41.4
<i>Bulbophyllum</i> spp.	FLO					12		2.4
<i>Bulbophyllum</i> spp.	LIV		64	37			434	107
<i>Bulbophyllum</i> spp.	LVS					12		2.4
<i>Bulbophyllum</i> spp.	SPE					180		36
<i>Bulbophyllum sulfureum</i>	FRU				7			1.4
<i>Bulbophyllum therezienii</i>	SEE				5			1
<i>Bulbophyllum trilineatum</i>	LIV			45	50			19
<i>Bulbophyllum vinaceum</i>	LIV				20			4
<i>Cadetia</i> spp.	LIV						13	2.6
<i>Calanthe calanthoides</i>	DPL				8			1.6
<i>Calanthe madagascariensis</i>	LIV			97	32		20	29.8
<i>Calanthe repens</i>	LIV			5				1
<i>Calanthe rubens</i>	LIV		50					10
<i>Calanthe</i> spp.	DPL			1		4		1
<i>Calanthe</i> spp.	LIV						60	12
<i>Calanthe sylvatica</i>	LIV		10	15	10		2	7.4
<i>Calanthe triplicata</i>	LIV				15			3
<i>Calanthe vestita</i>	LIV		25	25				10
<i>Campylocentrum ariza-juliae</i>	LIV		10					2
<i>Campylocentrum micranthum</i>	LIV		13	8				4.2
<i>Campylocentrum pachyrrhizum</i>	LIV					10		2
<i>Catasetum integerrimum</i>	LIV		62					12.4
<i>Catasetum saccatum</i>	STE			20				4
<i>Catasetum tenebrosum</i>	SPE						7	1.4
<i>Cattleya bowringiana</i>	LIV		14					2.8
<i>Cattleya granulosa</i>	LVS		6					1.2
<i>Cattleya labiata</i>	LVS		6					1.2
<i>Cattleya</i> spp.	LIV		250					50

Taxon	Term	Unit	2004	2005	2006	2007	2008	Yearly Average
<i>Cattleya</i> spp.	ROO						9	1.8
<i>Caularthron bilamellatum</i>	LIV		48					9.6
<i>Ceratandra</i> spp.	LIV		10					2
<i>Chamaeangis gracilis</i>	LIV		10				22	6.4
<i>Chondrorhyncha</i> spp.	LIV		5					1
<i>Chysis bractescens</i>	LIV		490	801	300			318.2
<i>Chysis</i> spp.	LIV		100					20
<i>Cleisomeria</i> spp.	LIV		5					1
<i>Cleisostoma</i> spp.	LVS						5	1
<i>Clowesia russelliana</i>	LIV		20					4
<i>Cochleanthes flabelliformis</i>	LIV		5	9	6	8		5.6
<i>Coelia</i> spp.	LIV				25			5
<i>Coelogyne brachyptera</i>	LIV		5					1
<i>Coelogyne fimbriata</i>	LIV		105					21
<i>Coelogyne mooreana</i>	LIV		20					4
<i>Coelogyne</i> spp.	LIV		88				21	21.8
<i>Comparettia falcata</i>	LIV			50				10
<i>Corallorrhiza maculata</i>	STE				6			1.2
<i>Coryanthes speciosa</i>	LIV		135	205				68
<i>Coryanthes</i> spp.	LIV		14					2.8
<i>Corycium</i> spp.	LIV		16					3.2
<i>Cranichis</i> spp.	DPL		6			8	3	3.4
<i>Cranichis sylvatica</i>	LIV		5					1
<i>Cryptarrhena guatemalensis</i>	LIV		20					4
<i>Cryptarrhena lunata</i>	LIV		20		2			4.4
<i>Cryptopus paniculatus</i>	LIV			20				4
<i>Cryptopus</i> spp.	LIV			10				2
<i>Cryptostylis subulata</i>	LIV				8			1.6
<i>Cyclopogon</i> spp.	DPL		4	2		3		1.8
<i>Cycnoches egertonianum</i>	LIV		324					64.8
<i>Cycnoches</i> spp.	LIV		12					2.4
<i>Cycnoches ventricosum</i>	LIV		45					9
<i>Cymbidiella falcigera</i>	DPL		4			1		1
<i>Cymbidiella falcigera</i>	LIV			11		8	15	6.8
<i>Cymbidiella flabellata</i>	LIV		6	15	20	2		8.6
<i>Cymbidiella pardalina</i>	LIV		3	32	3	1	1	8
<i>Cymbidiella</i> spp.	LIV		3		1	5	15	4.8
<i>Cymbidium dayanum</i>	LIV		35					7
<i>Cymbidium devonianum</i>	LIV		135					27
<i>Cymbidium eburneum</i>	LIV		110					22
<i>Cymbidium ensifolium</i>	LIV		35					7
<i>Cymbidium erythrostylum</i>	LIV		35					7
<i>Cymbidium insigne</i>	LIV		25					5
<i>Cymbidium iridioides</i>	LIV		25					5
<i>Cymbidium kanran</i>	LIV		37					7.4
<i>Cymbidium lancifolium</i>	LIV		6					1.2
<i>Cymbidium munronianum</i>	LIV		31					6.2
<i>Cymbidium sinense</i>	LIV		25					5
<i>Cymbidium</i> spp.	FLO						1000	200

Taxon	Term	Unit	2004	2005	2006	2007	2008	Yearly Average
<i>Cymbidium</i> spp.	LIV		6	205	32503			6542.8
<i>Cynorkis ampullacea</i>	LIV			50				10
<i>Cynorkis boinana</i>	SEE				5			1
<i>Cynorkis brevicornu</i>	LIV			50				10
<i>Cynorkis fallax</i>	LIV				100			20
<i>Cynorkis gibbosa</i>	LIV		4	48	3	3	15	14.6
<i>Cynorkis gibbosa</i>	SEE				5			1
<i>Cynorkis lilacina</i> var. <i>pulchra</i>	SEE				5			1
<i>Cynorkis perrieri</i>	LIV				100			20
<i>Cynorkis peyrotii</i>	SEE				5			1
<i>Cynorkis sacculata</i>	LIV			49	100			29.8
<i>Cynorkis</i> spp.	DPL		20	10	3	11	1	9
<i>Cynorkis</i> spp.	FRU			10				2
<i>Cynorkis</i> spp.	LIV		8	40		3	30	16.2
<i>Cynorkis</i> spp.	LVS		5					1
<i>Cynorkis uncinata</i>	LIV			40		3	15	11.6
<i>Cynorkis uncinata</i>	SEE				5			1
<i>Cynorkis uniflora</i>	SEE				5			1
<i>Cypripedium acaule</i>	LIV		30					6
<i>Cypripedium parviflorum</i>	LIV				120	61		36.2
<i>Cypripedium reginae</i>	LIV			2	10	25		7.4
<i>Cyrtorchilum loxense</i>	SPE						10	2
<i>Cyrtorchilum</i> spp.	DPL		27			6	4	7.4
<i>Cyrtorchilum</i> spp.	SPE		2			3		1
<i>Cyrtopodium punctatum</i>	LIV		524	170				138.8
<i>Dendrobium aduncum</i>	LIV		25					5
<i>Dendrobium amabile</i>	LIV		178					35.6
<i>Dendrobium anosmum</i>	LIV		25					5
<i>Dendrobium aphyllum</i>	LIV		25					5
<i>Dendrobium aphyllum</i>	LIV	kg					1500	300
<i>Dendrobium bellatulum</i>	LIV		153					30.6
<i>Dendrobium capillipes</i>	LIV		1174					234.8
<i>Dendrobium capillipes</i>	ROO	kg				8000		1600
<i>Dendrobium cariniferum</i>	LIV		25					5
<i>Dendrobium cathcartii</i>	LIV		25					5
<i>Dendrobium chlorostylum</i>	LIV		25					5
<i>Dendrobium christyanum</i>	LIV		20					4
<i>Dendrobium chrysanthum</i>	LIV		81					16.2
<i>Dendrobium chrysotoxum</i>	LIV		4			5		1.8
<i>Dendrobium chrysotoxum</i>	LIV	kg			80000	150000		46000
<i>Dendrobium chrysotoxum</i>	ROO	kg				7000		1400
<i>Dendrobium crepidatum</i>	LIV		156					31.2
<i>Dendrobium crumenatum</i>	LIV		6					1.2
<i>Dendrobium densiflorum</i>	LIV		154					30.8
<i>Dendrobium dickasonii</i>	LIV		155					31
<i>Dendrobium draconis</i>	LIV		153					30.6
<i>Dendrobium ellipsophyllum</i>	LIV		5					1
<i>Dendrobium eriiflorum</i>	STE	kg					18990	3798
<i>Dendrobium farmeri</i>	LIV		54					10.8

Taxon	Term	Unit	2004	2005	2006	2007	2008	Yearly Average
<i>Dendrobium fimbriatum</i>	LIV		54					10.8
<i>Dendrobium fimbriatum</i>	ROO	kg				8000		1600
<i>Dendrobium finetianum</i>	LIV		12					2.4
<i>Dendrobium formosum</i>	LIV		203	20				44.6
<i>Dendrobium gratiosissimum</i>	LIV		29					5.8
<i>Dendrobium hemimelanoglossum</i>	LIV		20					4
<i>Dendrobium hercoglossum</i>	LIV			20				4
<i>Dendrobium hercoglossum</i>	ROO	kg				7000		1400
<i>Dendrobium infundibulum</i>	LIV		177					35.4
<i>Dendrobium lindleyi</i>	LIV		10					2
<i>Dendrobium lowii</i>	LIV				30			6
<i>Dendrobium macrophyllum</i>	LIV			20				4
<i>Dendrobium moschatum</i>	LIV	kg			91000	150000		48200
<i>Dendrobium nobile</i>	DPL	kg	8000	6436		4000		3687.2
<i>Dendrobium nobile</i>	LIV						6	1.2
<i>Dendrobium nobile</i>	LIV	kg		4336				867.2
<i>Dendrobium nobile</i>	ROO				1000			200
<i>Dendrobium nobile</i>	ROO	kg			23489.1			4697.8
<i>Dendrobium ochraceum</i>	LIV		177					35.4
<i>Dendrobium oligophyllum</i>	LIV		7	20				5.4
<i>Dendrobium parishii</i>	LIV		7					1.4
<i>Dendrobium parthenium</i>	LIV				30			6
<i>Dendrobium pendulum</i>	LIV		6					1.2
<i>Dendrobium primulinum</i>	LIV		181					36.2
<i>Dendrobium revolutum</i>	LIV		25					5
<i>Dendrobium serratilabium</i>	LIV				10			2
<i>Dendrobium speciosum</i>	LIV					151	17	33.6
<i>Dendrobium spp.</i>	DER	kg	28.4	2.9		6.5		7.6
<i>Dendrobium spp.</i>	DPL	kg	15000					3000
<i>Dendrobium spp.</i>	FIB					12		2.4
<i>Dendrobium spp.</i>	LIV		33			1	512	109.2
<i>Dendrobium spp.</i>	LIV	kg				100000		20000
<i>Dendrobium spp.</i>	ROO						6	1.2
<i>Dendrobium spp.</i>	SPE						5	1
<i>Dendrobium spp.</i>	STE	kg			28.4			5.7
<i>Dendrobium thysiflorum</i>	LIV		28	25				10.6
<i>Dendrobium unicum</i>	LIV		5					1
<i>Dendrobium venustum</i>	LIV		10					2
<i>Dendrobium wardianum</i>	LIV		9					1.8
<i>Dendrophylax funalis</i>	LIV		4	50	10		10	14.8
<i>Dichaea spp.</i>	DPL		4	5		9	2	4
<i>Dichaea spp.</i>	SPE		5			1		1.2
<i>Dimerandra emarginata</i>	LIV		25	50				15
<i>Dinema polybulbon</i>	LIV		131	38	2			34.2
<i>Diplocaulobium spp.</i>	LIV						72	14.4
<i>Disa caffra</i>	LIV				50			10
<i>Disa incarnata</i>	LIV		5	2	50			11.4
<i>Disa spp.</i>	LIV		269					53.8
<i>Disperis spp.</i>	LIV		26					5.2

Taxon	Term	Unit	2004	2005	2006	2007	2008	Yearly Average
<i>Earina mucronata</i>	LIV						20	4
<i>Earina</i> spp.	SPE				13			2.6
<i>Elleanthus capitatus</i>	LIV			20				4
<i>Elleanthus longibracteatus</i>	LIV		3	25	4	7		7.8
<i>Elleanthus</i> spp.	DPL		26	3		28	15	14.4
<i>Elleanthus</i> spp.	SPE					18		3.6
<i>Eltroplectris calcarata</i>	LIV			9	10		3	4.4
<i>Encyclia alata</i>	LIV		209	55	200			92.8
<i>Encyclia amanda</i>	LIV		25	130	100			51
<i>Encyclia ambigua</i>	LIV		125					25
<i>Encyclia asperula</i>	LIV		21					4.2
<i>Encyclia baculus</i>	LIV		45					9
<i>Encyclia boothiana</i>	LIV		743	455				239.6
<i>Encyclia boothiana</i> ssp. <i>boothiana</i>	LIV		120					24
<i>Encyclia bractescens</i>	LIV		703	680	200			316.6
<i>Encyclia chacaoensis</i>	LIV		29					5.8
<i>Encyclia chloroleuca</i>	LIV		20					4
<i>Encyclia cochleata</i>	LIV			12	6			3.6
<i>Encyclia cordigera</i>	LIV		29					5.8
<i>Encyclia dickinsoniana</i>	LIV		25					5
<i>Encyclia distantiflora</i>	LIV		20					4
<i>Encyclia fragrans</i>	LIV		4	100	6	6		23.2
<i>Encyclia guatemalensis</i>	LIV		274	240				102.8
<i>Encyclia livida</i>	LIV		25					5
<i>Encyclia michuacana</i>	LIV		50	30				16
<i>Encyclia porrecta</i>	LIV		20					4
<i>Encyclia prismatocarpa</i>	LIV			100				20
<i>Encyclia pygmaea</i>	LIV			6				1.2
<i>Encyclia pyriformis</i>	LIV			10				2
<i>Encyclia radiata</i>	LIV		1753	225	300			455.6
<i>Encyclia</i> spp.	DPL				3		3	1.2
<i>Encyclia</i> spp.	LIV		4	1				1
<i>Epidendrum acunae</i>	LIV		20					4
<i>Epidendrum angustifolium</i>	LIV			15		2		3.4
<i>Epidendrum ciliare</i>	LIV		722	75				159.4
<i>Epidendrum cristatum</i>	LIV		10					2
<i>Epidendrum diffusum</i>	LIV		123	107	106	6	8	70
<i>Epidendrum imatophyllum</i>	LIV		25					5
<i>Epidendrum jamaicense</i>	LIV			20				4
<i>Epidendrum nocturnum</i>	LIV		133	28		4		33
<i>Epidendrum nutans</i>	LIV		5		6			2.2
<i>Epidendrum paniculatum</i>	LIV		10					2
<i>Epidendrum polyanthum</i>	LIV		10					2
<i>Epidendrum radicans</i>	DPL				14			2.8
<i>Epidendrum rigidum</i>	LIV			12		4		3.2
<i>Epidendrum saxicola</i>	DPL					5		1
<i>Epidendrum saxicola</i>	SPE					5		1
<i>Epidendrum secundum</i>	LIV		45	3			3	10.2
<i>Epidendrum sintenisii</i>	LIV			5				1

<i>Taxon</i>	<i>Term</i>	<i>Unit</i>	2004	2005	2006	2007	2008	Yearly Average
<i>Epidendrum</i> spp.	DPL		114	11	1	120	52	59.6
<i>Epidendrum</i> spp.	LIV		434	1	4			87.8
<i>Epidendrum</i> spp.	SPE		24			36		12
<i>Epidendrum stamfordianum</i>	LIV		677	555				246.4
<i>Eria</i> spp.	LIV						37	7.4
<i>Eria truncata</i>	LIV		5					1
<i>Eulophia ibityensis</i>	LIV			10				2
<i>Eulophia livingstoneana</i>	LIV		6					1.2
<i>Eulophia perrieri</i>	LIV			10				2
<i>Eulophia pulchra</i>	DPL		4		1			1
<i>Eulophia pulchra</i>	LIV			7	30			7.4
<i>Eulophia ramosa</i>	LIV			50	5			11
<i>Eulophia</i> spp.	DPL		11			3	5	3.8
<i>Eulophia</i> spp.	LIV		14	5	3	1		4.6
<i>Eulophiella capuroniana</i>	LIV			7				1.4
<i>Eulophiella elisabethae</i>	LIV			21	2	1		4.8
<i>Eulophiella roempleriana</i>	DPL		8					1.6
<i>Eulophiella roempleriana</i>	LIV			13	3	2	3	4.2
<i>Eulophiella roempleriana</i>	LVS		17					3.4
<i>Fernandezia</i> spp.	DPL		3			2		1
<i>Flickingeria</i> spp.	LIV						16	3.2
<i>Galeandra batemanii</i>	LIV		681	1060	100			368.2
<i>Gastrodia elata</i>	DER	kg		500				100
<i>Gastrodia elata</i>	LIV	kg		11296				2259.2
<i>Gastrorchis francoisii</i>	LIV		15	123	10	2	12	32.4
<i>Gastrorchis humblotii</i>	LIV		6	135	180	2	10	66.6
<i>Gastrorchis humblotii</i> var. <i>schlechteri</i>	LIV					3	12	3
<i>Gastrorchis lutea</i>	LIV			35				7
<i>Gastrorchis peyrotii</i>	LIV			10				2
<i>Gastrorchis pulchra</i>	LIV				10			2
<i>Gastrorchis simulans</i>	LIV			25				5
<i>Gastrorchis</i> spp.	LIV			5	10			3
<i>Gastrorchis tuberculosa</i>	LIV			108				21.6
<i>Glomera</i> spp.	LIV						10	2
<i>Gongora cassidea</i>	LIV		10					2
<i>Gongora quinquenervis</i>	LIV		61					12.2
<i>Gongora</i> spp.	LIV		12					2.4
<i>Gongora truncata</i>	LIV		20	200	100			64
<i>Gongora unicolor</i>	LIV		355		100			91
<i>Goodyera erosa</i>	LIV		9					1.8
<i>Goodyera</i> spp.	LIV						22	4.4
<i>Govenia utriculata</i>	LIV				5			1
<i>Grammangis ellisii</i>	LIV		1	10	25	9	2	9.4
<i>Grammangis spectabilis</i>	LIV		2	8				2
<i>Grammangis</i> spp.	LIV		46			5		10.2
<i>Grammatophyllum</i> spp.	LIV						7	1.4
<i>Graphorkis concolor</i>	FRU				8			1.6
<i>Habenaria dentata</i>	LIV		10					2
<i>Habenaria distans</i>	LIV		5					1

<i>Taxon</i>	<i>Term</i>	<i>Unit</i>	2004	2005	2006	2007	2008	Yearly Average
<i>Habenaria entomantha</i>	LIV		5					1
<i>Habenaria floribunda</i>	LIV		5					1
<i>Habenaria lindleyana</i>	LIV		5					1
<i>Habenaria</i> spp.	DPL		8			12	4	4.8
<i>Habenaria</i> spp.	LIV		53					10.6
<i>Habenaria</i> spp.	SPE				3	6		1.8
<i>Heterotaxis crassifolia</i>	LIV		32	2	2			7.2
<i>Hexadesmia</i> spp.	LIV			50				10
<i>Holcoglossum subulifolium</i>	LIV		20					4
<i>Holothrix</i> spp.	LIV		28					5.6
<i>Huntleya fasciata</i>	LIV		25					5
<i>Ionopsis satyrioides</i>	LIV			6	20			5.2
<i>Ionopsis</i> spp.	LIV				70			14
<i>Ionopsis utricularioides</i>	LIV			49	200	12		52.2
<i>Isochilus carnosiflorus</i>	LIV		100					20
<i>Isochilus linearis</i>	LIV		123	204	103	3		86.6
<i>Jumellea amplifolia</i>	LIV				10			2
<i>Jumellea angustifolia</i>	LIV			5				1
<i>Jumellea arborescens</i>	FRU			8				1.6
<i>Jumellea arborescens</i>	LIV			20	10			6
<i>Jumellea brevifolia</i>	LIV			20	10			6
<i>Jumellea confusa</i>	LIV			60	40			20
<i>Jumellea ibityana</i>	LIV		5	5				2
<i>Jumellea jumelleana</i>	LIV			5			20	5
<i>Jumellea major</i>	LIV			35	10	3		9.6
<i>Jumellea maxillarioides</i>	LIV			4	1			1
<i>Jumellea pandurata</i>	LIV		3	60	1		20	16.8
<i>Jumellea punctata</i>	LIV			14			10	4.8
<i>Jumellea</i> spp.	DPL		6	14	1	1		4.4
<i>Jumellea</i> spp.	LIV			60			30	18
<i>Jumellea teretifolia</i>	LIV			4	2			1.2
<i>Kefersteinia</i> spp.	LIV		5					1
<i>Lacaena bicolor</i>	LIV		45					9
<i>Laelia purpurata</i>	LIV		5					1
<i>Lemurella culicifera</i>	FRU				20			4
<i>Leochilus labiatus</i>	LIV		20	9	115			28.8
<i>Leochilus</i> spp.	LIV		20		15			7
<i>Lepanthes acuminata</i>	LIV			40				8
<i>Lepanthes ovalis</i>	LIV		6					1.2
<i>Lepanthes</i> spp.	DPL		49	4		43	7	20.6
<i>Lepanthes</i> spp.	LIV			100	1			20.2
<i>Lepanthes</i> spp.	SPE		16			26		8.4
<i>Lepanthopsis</i> spp.	DPL			4		1		1
<i>Liparis nervosa</i>	LIV		5					1
<i>Liparis</i> spp.	DPL		6	2		8	1	3.4
<i>Liparis</i> spp.	LIV		4				10	2.8
<i>Liparis viridiflora</i>	LIV		5					1
<i>Lockhartia biserra</i>	DPL		26					5.2
<i>Lockhartia hercodonta</i>	LIV		200					40

<i>Taxon</i>	<i>Term</i>	<i>Unit</i>	2004	2005	2006	2007	2008	Yearly Average
<i>Luisia macrotis</i>	LIV		5					1
<i>Luisia thailandica</i>	LIV		5					1
<i>Lycaste aromatica</i>	LIV		444	305	200			189.8
<i>Lycaste barringtoniae</i>	LIV		8		20	3		6.2
<i>Lycaste cochleata</i>	LIV		50					10
<i>Lycaste leucantha</i>	LIV			30				6
<i>Macradenia lutescens</i>	LIV				15	2	12	5.8
<i>Macradenia</i> spp.	LIV				15			3
<i>Malaxis latifolia</i>	LIV		20					4
<i>Malaxis parthonii</i>	LIV		5					1
<i>Malaxis</i> spp.	DPL		7			7		2.8
<i>Malaxis</i> spp.	LIV						8	1.6
<i>Malaxis</i> spp.	SPE					6		1.2
<i>Malleola</i> spp.	LVS						5	1
<i>Masdevallia angulata</i>	LIV		100					20
<i>Masdevallia floribunda</i>	LIV		500	30				106
<i>Masdevallia</i> spp.	DPL		16	9		11	1	7.4
<i>Masdevallia</i> spp.	LIV		146				2	29.6
<i>Masdevallia</i> spp.	SPE		6		4	4		2.8
<i>Maxillaria alba</i>	LIV		16	2	5			4.6
<i>Maxillaria conferta</i>	LIV		7	5	2	3	2	3.8
<i>Maxillaria densa</i>	LIV		26	100				25.2
<i>Maxillaria elatior</i>	LIV		2	200				40.4
<i>Maxillaria exaltata</i>	DPL			6				1.2
<i>Maxillaria friedrichsthali</i>	LIV		56	18				14.8
<i>Maxillaria fulgens</i>	LIV		26					5.2
<i>Maxillaria lankestri</i>	DPL			7				1.4
<i>Maxillaria minor</i>	DPL			6				1.2
<i>Maxillaria repens</i>	DPL			18				3.6
<i>Maxillaria ringens</i>	LIV		25					5
<i>Maxillaria rufescens</i>	LIV		30	10	30		3	14.6
<i>Maxillaria speciosa</i>	LIV		141					28.2
<i>Maxillaria</i> spp.	DPL		73	16		115	37	48.2
<i>Maxillaria</i> spp.	LIV		1	104	4			21.8
<i>Maxillaria</i> spp.	SPE		32			29		12.2
<i>Maxillaria tenuifolia</i>	LIV		312	390	200			180.4
<i>Maxillaria uncata</i>	LIV		28					5.6
<i>Maxillaria variabilis</i>	LIV		41	250				58.2
<i>Mediocalcar</i> spp.	LIV						8	1.6
<i>Microcoelia gilpinae</i>	LIV					20	20	8
<i>Microcoelia gilpinae</i>	SEE				10			2
<i>Microcoelia macrantha</i>	LIV			21	9		30	12
<i>Microcoelia perrieri</i>	LIV			5				1
<i>Microcoelia</i> spp.	LIV		6	5	5		20	7.2
<i>Miltonia flavescens</i>	LVS		6					1.2
<i>Miltonia regnellii</i>	LVS		6					1.2
<i>Mormodes lineata</i>	LIV		10					2
<i>Mormodes sotoana</i>	LIV		10					2
<i>Mormodes</i> spp.	LIV		16	1				3.4

<i>Taxon</i>	<i>Term</i>	<i>Unit</i>	2004	2005	2006	2007	2008	Yearly Average
<i>Mormolyca ringens</i>	LIV		25	100				25
<i>Myoxanthus</i> spp.	DPL		7			5	1	2.6
<i>Myoxanthus</i> spp.	SPE		2			3		1
<i>Myoxanthus trachychlamys</i>	DPL			7				1.4
<i>Myrmecophila brysiana</i>	LIV		55					11
<i>Myrmecophila exaltata</i>	LIV		30					6
<i>Myrmecophila tibicinis</i>	LIV		1385	250	600			447
<i>Neobathiea grandidierana</i>	LIV			80	1		1	16.4
<i>Neobathiea perrieri</i>	LIV		4	15		2		4.2
<i>Neobathiea spatulata</i>	LIV			100				20
<i>Neobolusia</i> spp.	LIV		5					1
<i>Neodryas</i> spp.	DPL					5	2	1.4
<i>Neofinetia falcata</i>	LIV		5					1
<i>Neolehmannia difformis</i>	LIV		100	2	4	10		23.2
<i>Nervilia</i> spp.	DPL		9			1		2
<i>Nervilia</i> spp.	SPE				5			1
<i>Neuwiedia</i> spp.	LVS						5	1
<i>Neuwiedia veratrifolia</i>	FLO						20	4
<i>Neuwiedia veratrifolia</i>	LVS						5	1
<i>Nidema boothii</i>	LIV		4	4				1.6
<i>Nidema ottonis</i>	LIV					5		1
<i>Notylia barkeri</i>	LIV		582	178				152
<i>Notylia</i> spp.	LIV				200			40
<i>Oberonia disticha</i>	DPL			2	1	3		1.2
<i>Oberonia</i> spp.	LIV						56	11.2
<i>Odontoglossum</i> spp.	DPL		26			5	4	7
<i>Odontoglossum subuligerum</i>	DPL					7		1.4
<i>Odontoglossum subuligerum</i>	SPE					6		1.2
<i>Oeceoclades calcarata</i>	LIV		10	110	20			28
<i>Oeceoclades decaryana</i>	LIV		7	121	4	50		36.4
<i>Oeceoclades humbertii</i>	LIV		30					6
<i>Oeceoclades maculata</i>	DPL		2	6				1.6
<i>Oeceoclades pandurata</i>	LIV			12	10			4.4
<i>Oeceoclades perrieri</i>	LIV				20	30		10
<i>Oeceoclades petiolata</i>	LIV		5	5	50			12
<i>Oeceoclades peyrotii</i>	LIV			100				20
<i>Oeceoclades rauhii</i>	LIV			200				40
<i>Oeceoclades roseovariegata</i>	LIV		6	172	22	40		48
<i>Oeceoclades spathulifera</i>	LIV			50	40	80		34
<i>Oeceoclades</i> spp.	DPL		6	4				2
<i>Oeceoclades</i> spp.	LIV		4	220		10		46.8
<i>Oeonia rosea</i>	LIV			65	20	3		17.6
<i>Oeonia volucris</i>	LIV		5	3	20			5.6
<i>Oeoniella polystachys</i>	LIV			15	14	7	2	7.6
<i>Oeoniella</i> spp.	LIV		5					1
<i>Oncidium baueri</i>	LVS		6					1.2
<i>Oncidium blanchetii</i>	LVS		6					1.2
<i>Oncidium ciliatum</i>	LVS		6					1.2
<i>Oncidium concolor</i>	LVS		6					1.2

<i>Taxon</i>	<i>Term</i>	<i>Unit</i>	2004	2005	2006	2007	2008	Yearly Average
<i>Oncidium cruciatum</i>	LVS		6					1.2
<i>Oncidium divaricatum</i>	LVS		6					1.2
<i>Oncidium ensatum</i>	LIV		25	105				26
<i>Oncidium fimbriatum</i>	LVS		6					1.2
<i>Oncidium flexuosum</i>	LVS		6					1.2
<i>Oncidium gardneri</i>	LVS		6					1.2
<i>Oncidium gauntlettii</i>	LIV			10				2
<i>Oncidium hastatum</i>	LIV		25					5
<i>Oncidium hians</i>	LVS		6					1.2
<i>Oncidium leiningii</i>	LVS		6					1.2
<i>Oncidium lindenii</i>	LIV		160	30				38
<i>Oncidium longicornu</i>	LVS		6					1.2
<i>Oncidium longipes</i>	LVS		6					1.2
<i>Oncidium pubes</i>	LVS		6					1.2
<i>Oncidium pulchellum</i>	LIV						8	1.6
<i>Oncidium pumilum</i>	LVS		6					1.2
<i>Oncidium raniferum</i>	LVS		6					1.2
<i>Oncidium sarcodes</i>	LVS		6					1.2
<i>Oncidium sphacelatum</i>	LIV		246	135				76.2
<i>Oncidium spp.</i>	DER			196				39.2
<i>Oncidium spp.</i>	DPL		8	1		4	3	3.2
<i>Oncidium spp.</i>	LIV		23	1	2		1	5.4
<i>Oncidium spp.</i>	LVS		6					1.2
<i>Oncidium spp.</i>	SPE		4			1		1
<i>Oncidium tetrapetalum</i>	LIV		4		6	10		4
<i>Oncidium triquetrum</i>	LIV			12				2.4
<i>Oncidium varicosum</i>	LVS		6					1.2
<i>Orchidaceae hybrid</i>	LIV		37		4331		1	873.8
<i>Orchidaceae spp.</i>	DPL		265	229	1336	1175	353	671.6
<i>Orchidaceae spp.</i>	DPL	kg				106		21.2
<i>Orchidaceae spp.</i>	FLO				58	23		16.2
<i>Orchidaceae spp.</i>	FRU				197			39.4
<i>Orchidaceae spp.</i>	LIV		23070	5485	12637	367	226	8357
<i>Orchidaceae spp.</i>	LVS		157			61		43.6
<i>Orchidaceae spp.</i>	SPE		43	464	501	106	614	345.6
<i>Orchidaceae spp.</i>	SPE	kg		5.5				1.1
<i>Ornithocephalus bicornis</i>	LIV		250	100				70
<i>Ornithocephalus gladiatus</i>	LIV		102					20.4
<i>Ornithocephalus inflexus</i>	LIV		100	300				80
<i>Ornithocephalus spp.</i>	LIV		33					6.6
<i>Otochilus fusca</i>	LIV		5					1
<i>Otoglossum globuliferum</i>	DPL			8				1.6
<i>Pachyphyllum spp.</i>	DPL		1			30	7	7.6
<i>Pachyphyllum spp.</i>	SPE					22		4.4
<i>Pedilochilus spp.</i>	LIV						12	2.4
<i>Peristeria elata</i>	LIV				23			4.6
<i>Phaius pulchellus</i>	LIV			10				2
<i>Phaius spp.</i>	LIV		32				6	7.6
<i>Phalaenopsis amabilis</i>	LIV				30			6

Taxon	Term	Unit	2004	2005	2006	2007	2008	Yearly Average
<i>Phalaenopsis maculata</i>	LIV				20			4
<i>Phalaenopsis mannii</i>	LIV		5					1
<i>Phalaenopsis parishii</i>	LIV		6					1.2
<i>Phalaenopsis pulcherrima</i>	LIV		5					1
<i>Phalaenopsis</i> spp.	LIV		3		1000	1000		400.6
<i>Phalaenopsis violacea</i>	LIV				15			3
<i>Pholidota articulata</i>	DPL		5					1
<i>Pholidota</i> spp.	LIV						9	1.8
<i>Phreatia</i> spp.	LIV						51	10.2
<i>Piperia elegans</i>	DPL			82				16.4
<i>Piperia transversa</i>	DPL			15				3
<i>Piperia unalascensis</i>	DPL			100				20
<i>Platanthera bifolia</i>	LVS					200		40
<i>Platanthera chlorantha</i>	LVS					200		40
<i>Platystele</i> spp.	DPL		13	10		4		5.4
<i>Platystele</i> spp.	SPE		3			3		1.2
<i>Pleurothallis alpestris</i>	LIV				10			2
<i>Pleurothallis brighamii</i>	LIV		100					20
<i>Pleurothallis corniculata</i>	LIV		6	15		10		6.2
<i>Pleurothallis delicatula</i>	LIV		10	12				4.4
<i>Pleurothallis grobyi</i>	LIV		200	556	100			171.2
<i>Pleurothallis oblongifolia</i>	LIV		8					1.6
<i>Pleurothallis pruinosa</i>	LIV					10	11	4.2
<i>Pleurothallis quadrifida</i>	LIV		13	7	8		4	6.4
<i>Pleurothallis sertularioides</i>	LIV		5	20	10		5	8
<i>Pleurothallis</i> spp.	DPL		126	69		92	33	64
<i>Pleurothallis</i> spp.	LIV		10	2				2.4
<i>Pleurothallis</i> spp.	SPE		34		15	31		16
<i>Pleurothallis tikalensis</i>	LIV		29					5.8
<i>Pleurothallis tribuloides</i>	LIV				4		5	1.8
<i>Pleurothallis uncinata</i>	LIV		25					5
<i>Polycycnis</i> spp.	LIV		12					2.4
<i>Polystachya concreta</i>	DPL			2		3		1
<i>Polystachya henrici</i>	LIV				50			10
<i>Polystachya humbertii</i>	FRU				30			6
<i>Polystachya oreocharis</i>	LIV		5					1
<i>Polystachya rhodochila</i>	LIV		6					1.2
<i>Polystachya rosea</i>	FRU				10			2
<i>Polystachya rosea</i>	LIV			23				4.6
<i>Polystachya</i> spp.	DPL		2	12		17	1	6.4
<i>Polystachya</i> spp.	FLO		5					1
<i>Polystachya</i> spp.	LIV			11			1	2.4
<i>Polystachya</i> spp.	SPE				6	1		1.4
<i>Pomatocalpa kunstleri</i>	LVS						5	1
<i>Pomatocalpa</i> spp.	LIV						12	2.4
<i>Ponthieva</i> spp.	DPL		14			4	1	3.8
<i>Porroglossum</i> spp.	DPL		6					1.2
<i>Porroglossum</i> spp.	SPE		5					1
<i>Prescottia</i> spp.	DPL		3			3		1.2

Taxon	Term	Unit	2004	2005	2006	2007	2008	Yearly Average
<i>Prosthechea cochleata</i>	LIV						5	1
<i>Prosthechea</i> spp.	DPL		5			5	3	2.6
<i>Pseuderia</i> spp.	LIV						6	1.2
<i>Psygmorechis pumilio</i>	LIV				100			20
<i>Psygmorechis pusilla</i>	LIV		280		100			76
<i>Pteroceras semiteretifolium</i>	LIV		5					1
<i>Pterygodium</i> spp.	LIV		27					5.4
<i>Renanthera bella</i>	LIV				15			3
<i>Restrepia</i> spp.	DPL		5					1
<i>Restreplopsis</i> spp.	DPL			8				1.6
<i>Rhyncholaelia digbyana</i>	LIV		55	2				11.4
<i>Rhyncholaelia glauca</i>	LIV		619	365	200			236.8
<i>Rhynchostylis gigantea</i>	LIV					5		1
<i>Rhynchostylis retusa</i>	LIV					5		1
<i>Robiquetia</i> spp.	LIV						49	9.8
<i>Rusbyella</i> spp.	DPL					4	3	1.4
<i>Sacoila lanceolata</i>	LIV		8					1.6
<i>Sarcanthopsis</i> spp.	LIV						8	1.6
<i>Sarcoglottis acaulis</i>	LIV				15			3
<i>Sarcoglottis sceptrodes</i>	LIV		700	1				140.2
<i>Satyrium amoenum</i>	LIV		5					1
<i>Satyrium</i> spp.	LIV		103					20.6
<i>Scaphosepalum</i> spp.	DPL		5					1
<i>Scaphosepalum</i> spp.	SPE		6					1.2
<i>Scaphyglottis behrii</i>	LIV		54					10.8
<i>Scaphyglottis prolifera</i>	LIV		100					20
<i>Scaphyglottis</i> spp.	DPL			5		8	1	2.8
<i>Scelochilus</i> spp.	DPL						6	1.2
<i>Schizochilus</i> spp.	LIV		15					3
<i>Schizodium</i> spp.	LIV		20					4
<i>Schoenorchis gemmata</i>	LIV		30					6
<i>Schoenorchis micrantha</i>	LIV		30					6
<i>Schomburgkia</i> spp.	LIV			200				40
<i>Sievekingia</i> spp.	LIV		8					1.6
<i>Sobennikoffia humbertiana</i>	FRU			7				1.4
<i>Sobennikoffia humbertiana</i>	LIV			107	27	22		31.2
<i>Sobennikoffia robusta</i>	FRU			10				2
<i>Sobennikoffia robusta</i>	LIV			102	17	20		27.8
<i>Sobennikoffia</i> spp.	LIV					20		4
<i>Sobralia decora</i>	LIV		8					1.6
<i>Sobralia macrantha</i>	LIV		185					37
<i>Sobralia</i> spp.	DPL		11	13		13	4	8.2
<i>Sobralia</i> spp.	SPE		2			7		1.8
<i>Solenangis aphylla</i>	LIV			21	4			5
<i>Spathoglottis plicata</i>	LIV		5					1
<i>Spiranthes costaricensis</i>	LIV		5					1
<i>Spiranthes romanzoffiana</i>	LVS			39				7.8
<i>Spiranthes romanzoffiana</i>	SPE		2	30				6.4
<i>Stanhopea ecornuta</i>	LIV		20					4

<i>Taxon</i>	<i>Term</i>	<i>Unit</i>	2004	2005	2006	2007	2008	Yearly Average
<i>Stanhopea graveolens</i>	LIV		20					4
<i>Stanhopea inodora</i>	LIV		40					8
<i>Stanhopea oculata</i>	LIV		150		100			50
<i>Stanhopea</i> spp.	LIV		116	150	100			73.2
<i>Stelis ophioglossoides</i>	LIV		10	15	20	5	4	10.8
<i>Stelis</i> spp.	DPL		141	57		169	31	79.6
<i>Stelis</i> spp.	SPE		58		15	31		20.8
<i>Stelis superbiens</i>	SPE						5	1
<i>Stellilabium</i> spp.	DPL					5	1	1.2
<i>Stellilabium</i> spp.	SPE		2			3		1
<i>Stenorrhynchus speciosum</i>	LIV		6	5	6		1	3.6
<i>Stilifolium ascendens</i>	LIV		119	145				52.8
<i>Stilifolium jonesianum</i>	LVS		6					1.2
<i>Telipogon machupicchuensis</i>	DPL					5		1
<i>Telipogon</i> spp.	DPL		12			44	8	12.8
<i>Telipogon</i> spp.	LIV				8			1.6
<i>Telipogon</i> spp.	SPE		1			25		5.2
<i>Thelasis</i> spp.	LIV						8	1.6
<i>Thrixspermum centipeda</i>	LIV		5					1
<i>Thrixspermum</i> spp.	LIV						10	2
<i>Trichocentrum carthagenense</i>	LIV		264	126	100			98
<i>Trichocentrum cebolleta</i>	LIV		6					1.2
<i>Trichocentrum cebolleta</i>	LVS		6					1.2
<i>Trichocentrum microchilum</i>	LIV		129	28	205	3	6	74.2
<i>Trichocentrum</i> spp.	LIV				8			1.6
<i>Trichoglottis</i> spp.	LIV						6	1.2
<i>Trichosalpinx ciliaris</i>	LIV		10					2
<i>Trichosalpinx dura</i>	LIV		200					40
<i>Trichosalpinx</i> spp.	DPL		15			3	2	4
<i>Trichosalpinx</i> spp.	SPE		7			2		1.8
<i>Trigonidium egertonianum</i>	LIV		153	50				40.6
<i>Trisetella</i> spp.	DPL		10					2
<i>Vanda denisoniana</i>	LIV		25					5
<i>Vanda lilacina</i>	LIV		7					1.4
<i>Vanda pumila</i>	LIV		35					7
<i>Vanda</i> spp.	LIV		6		2547		4	511.4
<i>Vanilla francoisii</i>	LIV			50				10
<i>Vanilla inodora</i>	LIV		25					5
<i>Vanilla planifolia</i>	LIV		116	2	100			43.6
<i>Vanilla</i> spp.	DPL		14	1		2		3.4
<i>Vanilla</i> spp.	LIV		4	3		3		2
<i>Vanilla</i> spp.	SEE		1200			70		254
<i>Vanilla</i> spp.	SPE					8		1.6
<i>Xylobium</i> spp.	DPL		5	1			1	1.4
<i>Zootrophion atropurpureum</i>	LIV			12	20			6.4
OROBANCHACEAE								
<i>Cistanche deserticola</i>	DER	kg	325.3	223.4	0.4	3.6	200.9	150.7
<i>Cistanche deserticola</i>	ROO	kg			89.3			17.9

Taxon	Term	Unit	2004	2005	2006	2007	2008	Yearly Average
PALMAE								
<i>Beccariophoenix madagascariensis</i>	DPL		4			2		1.2
<i>Beccariophoenix madagascariensis</i>	LVS		39			1		8
<i>Beccariophoenix madagascariensis</i>	SEE			4000		2		800.4
<i>Beccariophoenix madagascariensis</i>	SEE	kg		2		30.2	40	14.4
<i>Lemurophoenix halleuxii</i>	LIV				6			1.2
<i>Lemurophoenix halleuxii</i>	SEE			8010	20			1606
<i>Lemurophoenix halleuxii</i>	SEE	kg			3800	100	0.1	780.0
<i>Marojejya darianii</i>	DPL					4	2	1.2
<i>Marojejya darianii</i>	SEE	kg		0.2	1225.0			245.0
<i>Neodypsis decaryi</i>	LIV					3	2	1
<i>Neodypsis decaryi</i>	SEE	kg			250		320	114
<i>Ravenea rivularis</i>	LIV		28579	19342	2974	541	1200	10527.2
<i>Ravenea rivularis</i>	SEE	kg	4058	3475	4570	8925	3675	4940.6
<i>Satranala decussilvae</i>	LIV				6			1.2
<i>Satranala decussilvae</i>	SEE			210				42
<i>Satranala decussilvae</i>	SEE	kg		0.1	205	94.2	1.8	60.2
<i>Voanioala gerardii</i>	SEE			9110	10			1824
PRIMULACEAE								
<i>Cyclamen cilicium</i>	DPL			250			80	66
<i>Cyclamen cilicium</i>	LIV		250500	250075	250000	250000	227926	245700.2
<i>Cyclamen coum</i>	LIV		530000	500000	600000	520695	455725	521284
<i>Cyclamen graecum</i>	DPL						80	16
<i>Cyclamen graecum</i>	LIV			9			5	2.8
<i>Cyclamen hederifolium</i>	LIV		1001630	1000000	900000	800120	729160	886182
<i>Cyclamen intaminatum</i>	DPL		100					20
<i>Cyclamen intaminatum</i>	LIV		75					15
<i>Cyclamen mirabile</i>	DPL		100					20
<i>Cyclamen mirabile</i>	LIV		75					15
RANUNCULACEAE								
<i>Adonis vernalis</i>	DPL	kg		4710	55			953
<i>Adonis vernalis</i>	ROO	kg	5440					1088
<i>Hydrastis canadensis</i>	POW	kg				30		6
ROSACEAE								
<i>Prunus africana</i>	BAR						10	2
<i>Prunus africana</i>	BAR	kg	2160355.5	2937700	2093301	1227300	815151.4	1846761.6
<i>Prunus africana</i>	DER						20	4
<i>Prunus africana</i>	EXT	kg	738	491	722	46.8	673.5	534.3
<i>Prunus africana</i>	LVS					130	60	38
<i>Prunus africana</i>	POW	kg		59000	595000			130800
<i>Prunus africana</i>	SPE						490	98
<i>Prunus africana</i>	STE	kg			25			5
<i>Prunus africana</i>	TIM						240	48
SARRACENIACEAE								
<i>Sarracenia purpurea</i>	DPL	kg			12.3	36		9.7
STANGERIACEAE								
<i>Bowenia serrulata</i>	FLO			120	120			48

<i>Taxon</i>	<i>Term</i>	<i>Unit</i>	2004	2005	2006	2007	2008	Yearly Average
<i>Bowenia serrulata</i>	LIV					132		26.4
<i>Bowenia serrulata</i>	LVS		3040					608
TAXACEAE								
<i>Taxus chinensis</i>	EXT	kg		27.0				5.4
<i>Taxus cuspidata</i>	EXT	kg				36		7.2
<i>Taxus cuspidata</i>	LIV					7	17	4.8
<i>Taxus cuspidata</i>	LOG	m ³				50		10
<i>Taxus wallichiana</i>	EXT	kg			180	6		37.2
THYMELAEACEAE								
<i>Aquilaria beccariana</i>	TIM				560			112
<i>Aquilaria crassna</i>	CHP	kg		78.3	86	180	176	104.1
<i>Aquilaria crassna</i>	OIL	kg			37.6	0.1	1.3	7.8
<i>Aquilaria crassna</i>	POW	kg			10000			2000
<i>Aquilaria crassna</i>	TIM	kg		40	9			9.8
<i>Aquilaria filaria</i>	CHP	kg		276015	360576	329269.2	179098	228991.6
<i>Aquilaria filaria</i>	POW	kg		91765	206051	56575	200460	110970.2
<i>Aquilaria filaria</i>	TIM	kg				10140	6710	3370
<i>Aquilaria malaccensis</i>	CHP	kg	281130.5	187458.5	222410.1	225747.3	137939.5	210937.2
<i>Aquilaria malaccensis</i>	DER	kg		4.9	5.0	2.3	3.8	3.2
<i>Aquilaria malaccensis</i>	OIL	kg			3	27	10.0	8.0
<i>Aquilaria malaccensis</i>	OIL	l			6.2	414.0	105.5	105.1
<i>Aquilaria malaccensis</i>	POW	kg	5000	29000	19619.5	66700	70786	38221.1
<i>Aquilaria malaccensis</i>	STE	kg			5.0			1.0
<i>Aquilaria malaccensis</i>	TIM	kg			411.4	12259	15368	5607.7
<i>Aquilaria microcarpa</i>	CHP	kg		100			2	20.4
<i>Aquilaria sinensis</i>	DER	kg				126.6	24.6	30.2
<i>Aquilaria sinensis</i>	STE	kg			229.9			46.0
<i>Aquilaria</i> spp.	CHP	kg	1408.5	239184.2	247573.8	5525.8	33200.3	105378.5
<i>Aquilaria</i> spp.	LIV					5	30000	6001
<i>Aquilaria</i> spp.	OIL	kg	292		5.2	3.8	0.4	60.3
<i>Aquilaria</i> spp.	OIL	l	0.1	11	169.6	37.9	179.8	79.7
<i>Aquilaria</i> spp.	POW	kg		21000	30985		7500	11897
<i>Aquilaria</i> spp.	STE	kg			189.4	89.2	21.2	60.0
<i>Aquilaria</i> spp.	TIM	kg			75		3954	805.8
<i>Gonystylus bancanus</i>	CAR	kg					6683.9	1336.8
<i>Gonystylus bancanus</i>	CAR	m ³		34	5905.8	740	865.8	1509.1
<i>Gonystylus bancanus</i>	LIV	m ³					20.3	4.1
<i>Gonystylus bancanus</i>	TIM					2	10332	2066.8
<i>Gonystylus bancanus</i>	TIM	m ³		5808.4	8990.8	12176.1	6529.9	6701.0
<i>Gonystylus forbesii</i>	SAW	m ³			172.6	31.8		40.9
<i>Gonystylus forbesii</i>	TIP	m ³				36.0		7.2
<i>Gonystylus</i> spp.	CAR	m ³		13247.1	3723.0	113.3	0.8	3416.9
<i>Gonystylus</i> spp.	FRN	m ³		1696.4		37.8		346.8
<i>Gonystylus</i> spp.	LIV				20			4
<i>Gonystylus</i> spp.	LIV	m ³					9.0	1.8
<i>Gonystylus</i> spp.	PLY	m ³		7.2	8.6	5.4		4.2
<i>Gonystylus</i> spp.	SPE	m ³		15.6				3.1
<i>Gonystylus</i> spp.	TIM	m ²		42.3				8.5
<i>Gonystylus</i> spp.	TIM	m ³		40581.0	10568.2	6859.4	6540.6	12909.9

<i>Taxon</i>	<i>Term</i>	<i>Unit</i>	2004	2005	2006	2007	2008	Yearly Average
<i>Gyrinops</i> spp.	CHP	kg		22700	64543	63006	22225	34494.8
<i>Gyrinops</i> spp.	POW	kg			33250	9000	17000	11850
<i>Gyrinops</i> spp.	TIP	kg					1090	218
<i>Gyrinops versteegii</i>	CHP	kg		605			10000	2121
<i>Gyrinops versteegii</i>	POW	kg		7450				1490
ZAMIACEAE								
<i>Dioon mejiae</i>	LIV		77	47				24.8
<i>Dioon mejiae</i>	LVS			30				6
<i>Dioon</i> spp.	DPL		44					8.8
<i>Dioon</i> spp.	SEE		1672					334.4
<i>Macrozamia communis</i>	LIV		70	170	123	375		147.6
<i>Macrozamia communis</i>	LVS					70000		14000
<i>Macrozamia communis</i>	STE			10				2
<i>Macrozamia moorei</i>	LIV		1995	2642	1036			1134.6
<i>Macrozamia mountperriensis</i>	LIV		1075	184	70			265.8
<i>Macrozamia riedlei</i>	LIV			20	17	119	163	63.8
<i>Zamia angustifolia</i>	SPE			50				10
<i>Zamia elegantissima</i>	LIV			15				3
<i>Zamia fairchildiana</i>	LVS			500				100
<i>Zamia furfuracea</i>	LIV		28000	1000				5800
<i>Zamia manicata</i>	LIV			17				3.4
<i>Zamia</i> spp.	DPL		22					4.4
<i>Zamia</i> spp.	LIV		28	17				9
<i>Zamia</i> spp.	LVS			9				1.8
<i>Zamia</i> spp.	SEE		836					167.2
<i>Zamia</i> spp.	STE			21				4.2
<i>Zamia standleyi</i>	LIV		33	28				12.2
<i>Zamia standleyi</i>	LVS			5				1
<i>Zamiaceae</i> spp.	LIV				90	2		18.4
ZYGOPHYLLACEAE								
<i>Guaiacum coulteri</i>	SAW	m ³	12.0					2.4
<i>Guaiacum coulteri</i>	TIM	m ³				18.2		3.6
<i>Guaiacum officinale</i>	DPL						50	10
<i>Guaiacum sanctum</i>	LVS			1500	250			350
<i>Guaiacum sanctum</i>	POW	m ³			7.6			1.5
<i>Guaiacum sanctum</i>	TIM	m ³	149.3	99.6	160.7	1777.6	64.7	450.4

Selection of species for inclusion in the Review of Significant Trade following CoP15: Extended analysis

UNEP-WCMC has undertaken an extended analysis of the Appendix-II trade data with the aim of assisting the CITES scientific committees with the task of species selection for the Review of Significant Trade. The species selected by the analysis described below are listed in Table 1. It should be noted, however, that many of these species may have been selected as a results of anomalies in the trade data rather than because of genuine concerns with the trade.

Data used

This extended analysis of gross exports in Appendix-II species covers trade data over the most recent ten-year period for which near-complete data is available (1999-2008). A longer period was deemed more appropriate to enable the identification of slopes and dispersion of trade levels, used for the analysis. As with the initial data output produced (see Annex 1 of the present document), specimens traded at levels averaging less than one over the most recent five-year period were excluded. Similarly, only trade data where the reported source was wild-collected, ranched, unknown or where there was no reported source were included. Trade at the genus level is included. However, trade reported at higher taxonomic levels (e.g. at the family, order or class level) has been excluded. The number of individual trade records involved in this analysis totalled over 3,389,800.

As re-export data were not deemed to add relevant information to the analysis of the number of specimens taken for trade, only the data concerning direct exports was used in the analysis.

Data for 2009 were excluded from this extended analysis since less than 50 % of annual reports for 2009 had been received by UNEP-WCMC and included in the CITES Trade Database by the time of the data extraction (1 December 2010). However, data for 2009 have been included in a separate analysis described under "Preliminary analysis of 2009 data" (see p. 35 of the present document).

The resulting dataset was subsequently filtered to include only the following terms of trade (i.e. types of specimens in trade):

- bark, carvings, chips, cultures, derivatives, dried plants, extract, flowers, flower pots, fruit, furniture, leaves, live, logs, plywood, powder, roots, sawn wood, seeds, stems, timber, timber carvings, timber pieces, veneer, and wax.

A full list of terms traded is available in the CITES Trade Database interpretation guide, see: www.unep-wcmc.org/citestrade/docs/CITESTradeDatabaseGuide_v7.pdf. Conversion factors were applied to enable a more meaningful analysis of the different units in which trade was originally reported. Units of trade were converted in order to standardize the data and facilitate the analysis as follows.

Converted from	Converted to
grams or milligrams	kilograms
millilitres	litres
centimetres	metres
cm ² or ft ²	m ²
cm ³	m ³

* The geographical designations employed in this Annex do not imply the expression of any opinion whatsoever on the part of the CITES Secretariat or the United Nations Environment Programme concerning the legal status of any country, territory, or area, or concerning the delimitation of its frontiers or boundaries. The responsibility for the contents of the document rests exclusively with its author.

Parties often report timber in either kilograms or cubic metres. Therefore, prior to the creation of the gross export tables, timber reported in kilograms was converted to cubic metres where a conversion factor for the species was available from the CITES Identification Manual – see below:

Species	Mean specific weight
<i>Gonystylus</i> spp.	0.66 g/cm ³
<i>Guaiaacum sanctum</i>	1.23 g/cm ³
<i>Guaiaacum officinale</i>	1.23 g/cm ³
<i>Pericopsis elata</i>	0.725 g/cm ³
<i>Prunus africana</i>	0.74 g/cm ³
<i>Swietenia humilis</i>	0.61 g/cm ³
<i>Swietenia macrophylla</i>	0.60 g/cm ³
<i>Swietenia mahagoni</i>	0.75 g/cm ³

Species selection

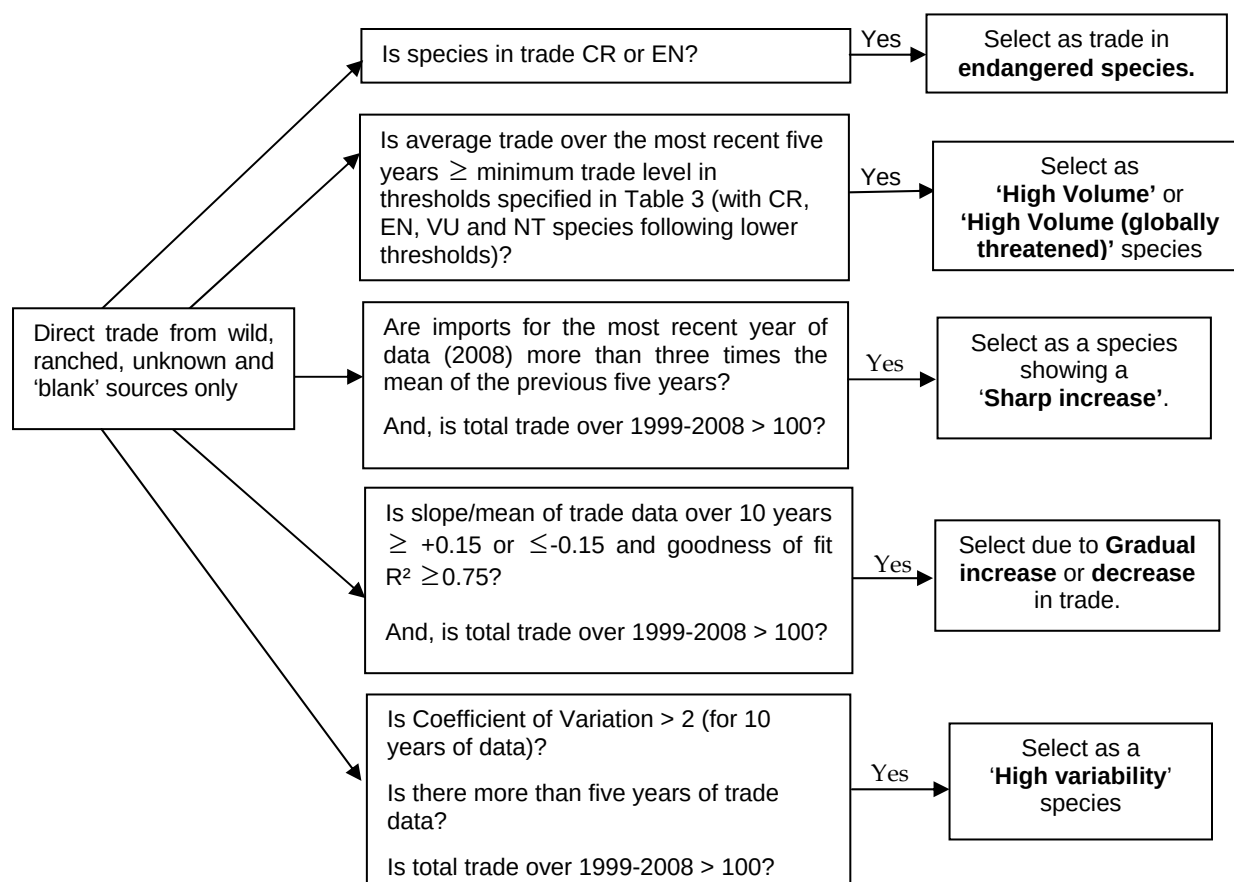
The resulting dataset was then filtered using a set of criteria to extract the species showing noteworthy patterns of trade. The selection of species highlighted in this detailed analysis was derived using the analysis protocol depicted in Figure 1. Trade levels were analysed and selected as noteworthy according to five criteria designed to identify:

- High volume of trade over the most recent five year period (2003-2008);
- Sharp increase in trade in 2008 in comparison to the average over preceding five-year period (2003-2007);
- General long-term increases or decreases in trade over a ten-year period (1999-2008);
- Long-term variability in trade between 1999 and 2008;
- Global threat status: Species categorized in the *IUCN Red List of Threatened Species* as Critically Endangered (CR) or Endangered (EN) were automatically selected for inclusion in Annex 1. Globally threatened and near-threatened species traded at relatively high volumes over 2003-2008 were also selected.

Further details on these criteria are summarized in Figure 1, followed by a detailed description of each criterion.

Species that met at least one of the criteria are included in Table 1, along with the details of which criterion or criteria they met. To assist the CITES scientific committees with the task of species selection for the Review of Significant Trade, UNEP-WCMC has provided additional information on species selected as part of this extended analysis in the Notes column. For instance, annotations are provided for species that were previously selected for review as part of the Review of Significant Trade, and for species that were newly listed on the CITES Appendices (within the period analysed).

Figure 1: Flow chart for the selection of candidate species for consideration in
the Review of Significant Trade



Criterion 1: Global threat status

Species threatened with extinction are assumed to be more adversely affected by high trade volumes and more susceptible to changes in trade patterns than non-threatened species. For this reason, species in trade that have been classified as Critically Endangered and Endangered in the *2010 IUCN Red List of Threatened Species* were automatically selected for inclusion. The standard selection criteria have also been applied to these species – adjusted when other criteria are also met.

The global threat status was taken into consideration when applying the 'high volume' criterion. Thresholds used to determine high volume trade were lower for globally threatened species than for non-threatened species. The minimum trade level required to meet the high volume criteria (see criterion 2) was also adjusted for all species categorised as Critically Endangered ('CR'), Endangered ('EN'), Vulnerable ('VU') or Near Threatened ('NT') in the *2010 IUCN Red List of Threatened Species*.

It should be noted that not all species have been assessed in the *2010 IUCN Red List of Threatened Species* e.g. many reptiles and invertebrates. Therefore, the higher trade thresholds will apply to these species by default as it cannot be easily determined whether or not these species are threatened.

Criterion 2: High volume trade

Species qualified for inclusion in Table 1 on the basis of 'high volume trade' or 'high volume (globally threatened)' if the average level of gross direct exports during 2004-2008 exceeded pre-determined thresholds (see below). Terms with the same unit (e.g. number or m³) were combined in order to assess the high volume criterion. For instance, a species might meet the high volume criterion on the combination of trade in live, bodies and skins. Trade in units other than number, or m³ in the case of timber, (e.g. kg or m) were excluded from the high volume trade analysis, as it is difficult to combine these units meaningfully, but were included in the analyses for the remaining criteria.

Average minimum number of specimens from wild, ranched and unknown sources reported as directly exported per year over 2004-2008 needed to qualify for selection on the basis of high trade volume.

Types of plants	High volume	High volume (*globally threatened)
Non-tree	5000	250
Trees	500 m ³	250 m ³

*Applies to species that are classified as Critically Endangered (CR), Endangered (EN), Vulnerable (VU) or Near Threatened (NT) according to the 2010 IUCN Red List of Threatened Species.

Criterion 3: Sharp increase in trade volume in 2008

Species met this criterion if the volume of direct exports during 2008 was more than three times the average trade volume of the preceding five years 2003-2007 (see graphic below). Species that, despite a sharp increase in trade in 2008, were still only traded in very low volumes (i.e. totalling less than 100 over the entire period), were not considered to meet this criterion.

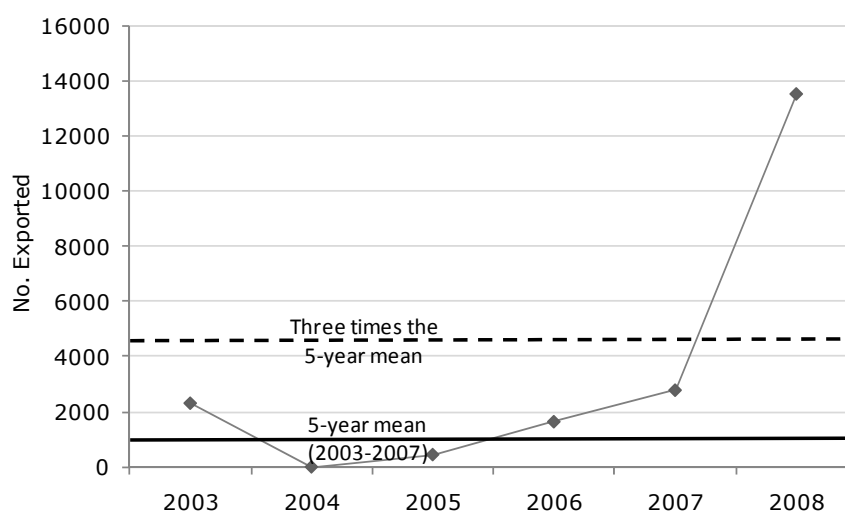


Illustration of the application of the 'sharp increase' criterion (direct gross exports).

Criterion 4: Overall increase or decrease in trade levels 1999-2008

This criterion was included to take into account more general trends over the ten-year period 1999-2008 ('overall increase' and 'overall decrease'). General trends in trade for each taxon were identified by calculating the slopes of a best-fit linear function to the trade data, a large slope (positive or negative) indicating a notable change in trade levels over time (see graphic below).

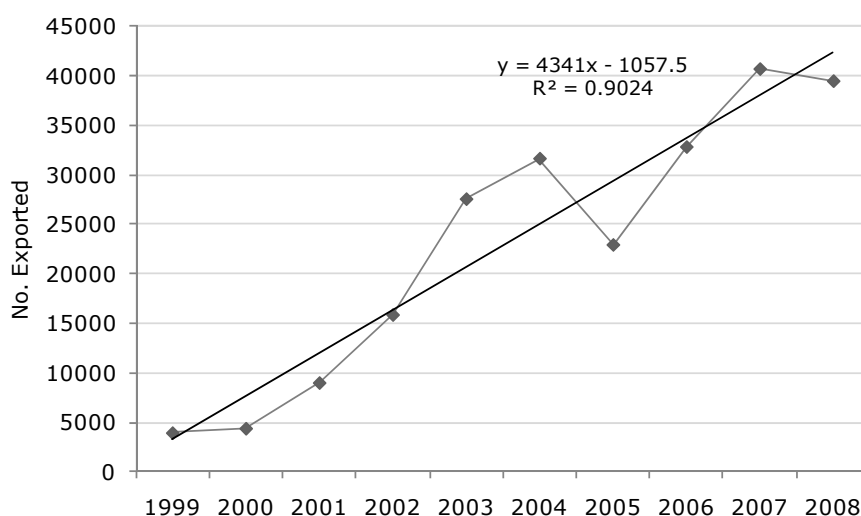


Illustration of the application of the 'overall increase' criterion (direct gross exports).

For the purpose of comparison between taxa, the value of the slope was divided by the mean level of trade (for the ten-year period in question) for each taxon. Following examination of the slope/mean values for all species,

a cut-off threshold of ± 0.15 was chosen. That is to say, values below +0.15 and above -0.15 were considered small slopes, while higher values than +0.15 and lower than -0.15 were considered large slopes. The goodness of fit of the trend-line was also considered with only species with R^2 values of greater than 0.75 retained in the final selection for overall increase or decrease (R^2 is a commonly-used criterion for goodness of fit with $R^2=1.00$ being best fit).

Species that, despite a gradual increase or decrease in trade over this period, were still only traded in very low volumes (i.e. totalling less than 100 over the entire period), were not selected on the basis of this criterion. The date of CITES listing was also taken into consideration for this criterion.

Criterion 5: Highly variable trade levels 1999-2008

Trade levels in some species can be highly variable, with relatively high volumes being traded in some years and little or no trade reported in other years. Most trade patterns do not fit the linear slope pattern, as described in the section on 'overall increase or decrease' above. Therefore, it was considered that a species showing high variation in levels of trade over the period of analysis might need more attention than those showing fairly constant trade levels. For the purpose of this analysis, a ten-year period (1999-2008) was examined. In the case of species added to the CITES Appendices within the period of analysis, only the years since its listing were analysed, provided that at least five years of trade data were available.

A number of measures of spread exist but the most appropriate when comparing across groups with different means was considered to be the coefficient of variation (CV). The CV is calculated as the standard deviation divided by the mean. This coefficient can therefore be used to make comparisons among taxa, as division of the standard deviation by the mean removes the effect of differences in scale of the trade volumes to which different taxa are subject.

Following examination of the coefficients of variation shown by all species within the period of analysis, a cut-off value of +2 was used to select candidate taxa. Thus, taxa whose levels of trade showed a coefficient of variation higher than +2 (i.e. highly variable trade levels) were considered as potential candidates for selection.

As with the previous criterion, species that were traded in low numbers (totalling less than 100 units during 1999-2008) were not selected for further consideration. In addition, species that had five or less data-points were excluded as zero-trade volumes are confounded with no-data due to lack of reporting, therefore many species would be selected as showing artificially high variability.

Preliminary analysis of 2009 data

As 2009 data were incomplete at the time of analysis (December 2010), they could not be subjected to the same analysis as other years of data. Nevertheless, a preliminary analysis was conducted to detect high volume and sharp increases in trade in 2009. The sharp increase criterion applied was the same as described above, with adjustments made for the year (e.g. taxa met the criterion if gross export levels in 2009 were over three times the average level of trade for the period 2004-2008). The high volume criterion applied differed slightly from the criterion applied to the main dataset. Instead of comparing the average of five years of data with the thresholds mentioned above, the 2009 data was assessed on its own to determine if the thresholds had been exceeded on the basis of trade reported to date.

Taxa suggested for review as part of this preliminary analysis of 2009 data are included in Table 2.

Table 1: Plant taxa selected through the flowchart process Quantities rounded to the nearest whole number, when applicable. Data extracted from the CITES Trade Database on 1 December 2010.

Database on 1 December 2010.

Taxon	Term (units)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	IUCN	Notes
AMARYLLIDACEAE													
<i>Galanthus elwesii</i>	live	5500200	5500000	5361900	5976530	5650000	5700000	5700000	5600000	5700000	5454120		Selected due to high volume of trade.
<i>Galanthus woronowii</i>	live	10000000	12000042	17006100	14000285	20000000	4005775	19879750	20000000	17000020	16817942		Selected due to high volume trade. Selected at PC14 in the trade review following CoP12.
APOCYNACEAE													
<i>Hoodia gordonii</i>	derivatives								21057	360			Selected due to high volume and sharp increase in trade. Listed in the CITES Appendices in 2005.
	dried plants								1065				
	seeds									30010000	30000000		
	derivatives (kg)							124	1248	66	299		
	dried plants (kg)							994	4345	554	32791		
	extract (kg)							745	2427	140	250		
	leaves (kg)							4292	1500	30			
	powder (kg)							14712	55869	23385	32531		
	stems (kg)							1489	880				
<i>Pachypodium</i> spp.	live	367	30	125	5	239	1929	1558	1159	899	813		Selected due to high volume of trade, sharp increase and high variability. <i>P. bispinosum</i> and <i>P. succulentum</i> Selected at PC15 in the trade review following CoP13.
	seeds				3400				200		52000		
BROMELIACEAE													
<i>Tillandsia</i> spp.	live	32	530		5		30	4					Selected due to high variability in trade.
CACTACEAE													
<i>Carnegiea gigantea</i>	timber pcs.	13	10						80000	40000			Selected due to high volume of trade.
	timber pcs (m ³)						98	49	49				
<i>Echinopsis chiloensis</i>	carvings							742			13299		Selected due to high volume of trade and sharp increase. Trade in rainsticks.
	dried plants						1				900		
	stems	42462	37411	24941	39185	67432	57011	35312	36665	28180	3225		
	stems (m)									15093	13703		

Taxon	Term (units)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	IUCN	Notes
<i>Echinopsis peruviana</i>	carvings				7775	4633	1730			850			Selected due to sharp increase and high variability in trade. Trade in rainsticks.
	live				80						40		
	stems			510	28810	2980		750	950		110		
<i>Eulychnia acida</i>	carvings							2204			23163		Selected due to high volume of trade, sharp increase and overall decrease in trade. Trade in rainsticks.
	derivatives									160	695		
	stems	218509	253039	141057	156604	148085	144050	97628	105426	72911	12101		
	stems (m)									44612	38662		
<i>Ferocactus latispinus</i>	seeds								1350000	1350000			Selected due to high volume of trade.
<i>Myrtillocactus geometrizans</i>	seeds			320					450000	450000			Selected due to high volume of trade.
	seeds (kg)									200			
<i>Opuntia echios</i>	derivatives										195		Selected due to sharp increase in trade.
<i>Opuntia galapageia</i>	derivatives										12	EN	Selected as trade in endangered species.
<i>Opuntia insularis</i>	derivatives										10	EN	Selected as trade in endangered species.
<i>Opuntia megasperma</i>	derivatives										5	EN	Selected as trade in endangered species.
<i>Opuntia</i> spp.	derivatives									7080			Selected due to sharp increase in trade.
	live	2			501	200	23	50					
	stems			712							4800		
	derivatives (flasks)										6960		
	stems (kg)										30000		
	timber pcs. (kg)						5000	13552	82100	75000			
<i>Opuntia streptacantha</i>	dried plants (kg)					1451	7		300		300		Selected due to sharp increase in trade.
	extract (kg)								300				
	stems (kg)										300		
CYATHEACEAE													
<i>Cyathea contaminans</i>	derivatives									1250			Selected due to high volume in trade and sharp increase. Sharp increase, however, resulting from variation in
	dried plants			1000		48726				42700			

Taxon	Term (units)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	IUCN	Notes
	chips (kg)										56700		reporting of "chips" and "dried plants" by trading partners. Selected at PC14 in the trade review following CoP12.
	dried plants (kg)				195984	175146	53500		69986	77150			
<i>Cyathea medullaris</i>	live	887	786	501	4391	1050	611	294	178	3294	425		Selected due to sharp increase in trade. Discussed at PC14, but not selected for trade review (see document PC14 Doc. 9.3).
	dried plants (kg)										1000		
	powder (kg)										2000		
<i>Cyathea</i> spp.	dried plants	341	943	1731		167	335	44	128	399	25039		Selected due to sharp increase in trade and high variability. Several species within the genus discussed at PC14, with <i>Cyathea contaminans</i> selected for review (see document PC14 Doc. 9.3 and PC16 Doc. 10.2. Annex 3).
	live	31	1	516		53	8	8166		260			
	dried plants (m ³)	115						97		124	230		
	chips (kg)							161375	38950				
	dried plants (kg)	90		875	1826	19072	11400	6720	33574	14308	5990		
CYCADACEAE													
<i>Cycas</i> spp.	dried plants		68							70			Selected due to high variability in trade. Review of Significant Trade in cycads published in 2003 (see document PC14 Doc. 9.2.2 Annex 1).
	live	4	60	4		23	4	3000					
	seeds		25	10					160				
DICKSONIACEAE													
<i>Cibotium barometz</i>	derivatives (kg)	19	505	6675	2457	11732	1218	45					Selected due to overall decrease in trade. Selected at PC14 in the trade review following CoP12
	roots (kg)	213000	185000	167200	178209	72139	69600	136000	79022	61000	69450		
	timber pcs. (kg)									500			
<i>Dicksonia</i> spp.	dried plants			255			3	12	6	7	5		Selected due to high variability in trade. Listed in the CITES Appendices in 2000.
	live	77						5	350				
DIDIEREACEAE													
<i>Alluaudia ascendens</i>	live		4			9	7	106	2	720			Selected due to high variability in trade.
EUPHORBIACEAE													

Taxon	Term (units)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	IUCN	Notes
<i>Euphorbia abyssinica</i>	live	96110	22700	176700	175580	107420	84330	100500					Selected due to high volume in trade. Traded under synonym <i>Euphorbia acurensis</i> .
<i>Euphorbia ankarensis</i>	live	24				52	159	275	95	82		EN	Selected as trade in endangered species.
<i>Euphorbia antisyphilitica</i>	dried plants (kg)										15000		Selected due to sharp increase and overall increase in trade.
	extract (kg)								19500				
	wax (kg)			98000	208000	191525	417151	430525	393525	689200	1005865		
<i>Euphorbia canariensis</i>	live			20				49000					Selected due to high volume of trade.
<i>Euphorbia croizatii</i>	live					5	3	50	102	200		EN	Selected as trade in endangered species.
<i>Euphorbia didiereoides</i>	live	22	5					5	3			EN	Selected as trade in endangered species. Selected at PC17 in the trade review following CoP14.
<i>Euphorbia duranii</i>	live	20				5	24	118	36			EN	Selected as trade in endangered species.
<i>Euphorbia elliotii</i>	live						13					EN	Selected as trade in endangered species. Selected at PC17 in the trade review following CoP14.
<i>Euphorbia guillauminiana</i>	live	9		100		40	739	188	118	218	120	EN	Selected as trade in endangered species and also met the high volume of trade (globally threatened) criterion.
<i>Euphorbia hedyotoides</i>	live		6			60	179	234	99	75	60	EN	Selected as trade in endangered species.
<i>Euphorbia horombensis</i>	live	20	1				39	60	126			EN	Selected as trade in endangered species. Selected at PC17 in the trade review following CoP14.
<i>Euphorbia labatii</i>	live							295	268	150		CR	Selected as trade in endangered species.
<i>Euphorbia lophogona</i>	live	10				11200	2	5605	20	750		VU	Selected due to high volume (globally threatened) and high variability in trade.
<i>Euphorbia mainty</i>	live										100		Selected due to sharp increase in trade.

Taxon	Term (units)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	IUCN	Notes
<i>Euphorbia mangokyensis</i>	live							10	16			EN	Selected as trade in endangered species. Selected at PC17 in the trade review following CoP14.
<i>Euphorbia milii</i>	live	33	205	148	6	2275	307	162	58	10			Selected due to high variability in trade.
<i>Euphorbia millotii</i>	live										100	CR	Selected as trade in endangered species.
<i>Euphorbia neohumbertii</i>	live	24	20	2			5	195	20			EN	Selected as trade in endangered species and also met the high variability criterion.
<i>Euphorbia pachypodioides</i>	live	6	31				31	333	205	65		CR	Selected as trade in endangered species. Selected at PC17 in the trade review following CoP14.
<i>Euphorbia primulifolia</i>	live	65	61	81		558	3322	1478	386	292	694	VU	Selected due to high volume of trade (globally threatened). Selected at PC17 in the trade review following CoP14.
<i>Euphorbia razafindratsirae</i>	live					31	147	10	8	43	10	CR	Selected as trade in endangered species.
<i>Euphorbia robivelonae</i>	live								11			CR	Selected as trade in endangered species. Selected at PC17 in the trade review following CoP14.
<i>Euphorbia</i> spp.	dried plants	12		146	31	51	14	17	142	69	22		Selected due to sharp increase. Euphorbias from Madagascar selected for review following CoP14 at PC17.
	live	1752	25	2026	4170	367	1957	3759	265	325	22		
	seeds			54							600		
<i>Euphorbia viguieri</i>	live	20	10				8	12	10	300			Selected due to high variability in trade.
<i>Euphorbia waringiae</i>	live							274	33	3860	10	VU	Selected due to high volume of trade (globally threatened).
LEGUMINOSAE													
<i>Pericopsis elata</i>	carvings									15		EN	Selected as trade in endangered species and also

Taxon	Term (units)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	IUCN	Notes
	timber (m³)	30507	14058	13691	11748	16415	13534	17381	21846	28661	23300	EN	met the high volume (globally threatened) criterion. Selected at PC17 in the trade review following CoP14.
LILIACEAE													
<i>Aloe deltoideodonta</i>	live	14	15	15	5	6	6	4800	5	510			Selected due to high variability in trade. Selected at PC17 in the trade review following CoP14.
<i>Aloe ferox</i>	dried plants		899		7000	13050	20735	1500					Selected due to high volume of trade. Selected at PC15 in the trade review following CoP13.
	extract	504		9496	43140	42314	17098	24165	55375	17352	23214		
	live	27635		110				35		202	1		
	leaves		6507	8000	12950	120377	90590	74856	71900	108190	69625		
<i>Aloe ferox</i> (cont.)	stems		1007		83349			3692					Selected due to high volume of trade. Selected at PC15 in the trade review following CoP13.
	timber pcs.		39984	55101		29528	107383	83309	92908				
	extract (flasks)						489						
	extract (kg)	324939	306679	402901	342713	453093	381137	447771	618117	423026	439103		
	fibres (kg)		48			1	200	1					
	leaves (kg)		5000			5000		3000	6882	24043	33115		
	timber pcs. (kg)					11	7500						
	extract (l)			28786	149688	130294	121500	102641	55884	85253	51050		
<i>Aloe</i> spp.	live	34	240	105	150	824	406	96	235	384	130		Selected due to sharp increase in trade. Various species have been selected for trade review following CoP11 at PC12 (East Africa), CoP13 at PC15 (South Africa) and following CoP14 at PC17 (Madagascar),
	seeds										1300		
MELIACEAE													
<i>Swietenia humilis</i>	timber (m³)									121	401	VU	Selected due to sharp increase in trade.
<i>Swietenia macrophylla</i>	leaves						101					VU	Selected due to high volume of trade (globally threatened). Listed in Appendix II in 2003. Selected at PC17 in the trade review following CoP14.
	timber (m³)					13317	353062	48867	40958	33211	49119		

Taxon	Term (units)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	IUCN	Notes
NEPENTHACEAE													
<i>Nepenthes bellii</i>	live	3						1		4		EN	Selected as trade in endangered species.
<i>Nepenthes</i> spp.	live	54								47	704		Selected due to sharp increase in trade.
<i>Nepenthes truncata</i>	live							1		20		EN	Selected as trade in endangered species.
ORCHIDACEAE													
<i>Aerangis macrocentra</i>	live	36	11		2	14		180	6		2		Selected due to high variability in trade.
<i>Aerides odoratum</i>	live	13	50		850	3	40		20				Selected due to high variability in trade.
<i>Angraecum didieri</i>	live	12	26	4	1	12		160	3				Selected due to high variability in trade.
<i>Angraecum leonis</i>	live	31			2	1		123	4	1	5		Selected due to high variability in trade.
<i>Angraecum sesquipedale</i>	leaves									18	150		Selected due to sharp increase in trade.
<i>Broughtonia sanguinea</i>	live	24	89	10	4		2		8				Selected due to high variability in trade.
<i>Calanthe</i> spp.	live	10	20	16							60		Selected due to sharp increase in trade.
<i>Cymbidium</i> spp.	flowers										1000		Selected due to high volume, sharp increase and high variability in trade.
	live	42	16670	100		250	6	205	32503				
<i>Dendrobium anosmum</i>	live	1014	230	100	20	3	25						Selected due to high variability in trade.
<i>Dendrobium aphyllum</i>	live (kg)										1500		Selected due to sharp increase in trade.
<i>Dendrobium eriiflorum</i>	stems (kg)										18990		Selected due to sharp increase in trade.
<i>Dendrobium nobile</i>	live	1776	130	25	1000	25					6		Selected due to high variability in trade. Selected at PC1 in the trade review following CoP12.
	roots								1000				
	dried plants (kg)	67000		16500	22000	36000	8000	6436		4000			
	live (kg)							4336					
	roots (kg)		23000	413000	13752				23489				

Taxon	Term (units)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	IUCN	Notes
<i>Dendrobium</i> spp.	live	60744	319	10001	711	1579	33			1	512		Selected due to high variability in trade. Selected as part of the review of medicinal plants following PC9.
	dried plants (kg)	25000		10000		13000	15000						
	live (kg)									100000			
<i>Dendrobium thysiflorum</i>	live	2710	735	307		64	28	25					Selected due to high variability in trade.
<i>Diplocaulobium</i> spp.	live				62						72		Selected due to sharp increase in trade.
<i>Encyclia bractescens</i>	live	1265	1067	779	695	941	703	680	200				Selected due to overall decrease in trade.
<i>Encyclia fragrans</i>	live	150	637		34	25	4	100	6	6			Selected due to high variability in trade.
<i>Gongora</i> spp.	live	159	11	1162	72	14	12						Selected due to high variability in trade.
<i>Grammangis</i> spp.	live	12		2	1	3	92			5			Selected due to high variability in trade.
<i>Habenaria</i> spp.	live	15	4	9	500	2	53						Selected due to high variability in trade.
<i>Ionopsis satyrioides</i>	live	6	8	16		201		6	20				Selected due to high variability in trade.
<i>Leochilus labiatus</i>	live	3	19	5			20	9	115				Selected due to high variability in trade.
<i>Liparis</i> spp.	live	803	105		5	1	4				10		Selected due to high variability in trade.
<i>Maxillaria densa</i>	live	629	9	2		25	26	100					Selected due to high variability in trade.
<i>Oberonia</i> spp.	live	226			100						56		Selected due to sharp increase.
<i>Oeceoclades decaryana</i>	live		4	1			7	121	4	50			Selected due to high variability in trade.
<i>Oeceoclades roseovariegata</i>	live				2	6	6	172	22	40			Selected due to high variability in trade.
<i>Oeceoclades</i> spp.	live	10	25	2	5	7	4	220		10			Selected due to high variability in trade.
<i>Oncidium</i> spp.	derivatives							196					Selected due to high variability in trade.
	live	2222	643	40898	1008	31	23	1	2		1		

Taxon	Term (units)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	IUCN	Notes
<i>Phalaenopsis</i> spp.	live	25		6309	165	464	3		1000	1000			Selected due to high variability in trade.
<i>Sobralia macrantha</i>	live	10	22	4	1		185						Selected due to high variability in trade.
<i>Trichocentrum cebolleta</i>	live	32	2	4	25	195	6						Selected due to high variability in trade.
<i>Vanda</i> spp.	live	241		321	23	220	6		2547		4		Selected due to high variability in trade.
<i>Vanilla</i> spp.	live	121	252	15	4	6	4	3		3			Selected due to high variability in trade.
	seeds						1200			70			
PALMAE													
<i>Beccariophoenix madagascariensis</i>	dried plants						4			2		CR	Selected as trade in endangered species and also met the high volume of trade (globally threatened) criterion. Listed in the CITES Appendices in 2003. Selected at PC17 in the trade review following CoP14.
	leaves						39			1			
	seeds							4000		2			
	seeds (kg)							2		30	40		
<i>Lemurophoenix halleuxii</i>	live								6			EN	Selected as trade in endangered species and also met the high volume of trade (globally threatened) criterion. Listed in the CITES Appendices in 2003. Selected at PC17 in the trade review following CoP14.
	seeds							8010	20				
	seeds (kg)								3800	100			
<i>Marojejya darianii</i>	dried plants									4	2	CR	Selected as trade in endangered species. Listed in the CITES Appendices in 2003. Selected at PC17 in the trade review following CoP14.
	seeds (kg)								1225				
<i>Ravenea rivularis</i>	live					15448	28579	19342	2974	541	1200	VU	Selected due to high volume of trade (globally threatened). Listed in the CITES Appendices in 2003.
	seeds (kg)					1500	4058	3475	4570	8925	3675		
<i>Satranala decussilvae</i>	live								6			EN	Selected as trade in

Taxon	Term (units)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	IUCN	Notes
	seeds							210					endangered species. Listed in the CITES Appendices in 2003. Selected at PC17 in the trade review following CoP14
	seeds (kg)								205	94	2		
<i>Voanioala gerardii</i>	seeds							9110	10			CR	Selected as trade in endangered species and met the high volume of trade (globally threatened) criterion. Listed in the CITES Appendices in 2003. Selected at PC17 in the trade review following CoP14
PRIMULACEAE													
<i>Cyclamen cilicium</i>	dried plants							250			80		Selected due to high volume of trade.
	live	250000	250000	250000	250000	250000	250500	250075	250000	250000	229516		
<i>Cyclamen coum</i>	live	250000	250000	500020	600200	500000	530000	500000	600000	520695	456965		Selected due to high volume of trade.
<i>Cyclamen hederifolium</i>	live	748962	1270000	1300000	1275000	1250050	1001630	1000000	900000	800120	729160		Selected due to high volume of trade.
STANGERIACEAE													
<i>Bowenia serrulata</i>	flowers							120	120				Selected due to high variability in trade. Review of Significant Trade in cycads published in 2003.
	live			21						132			
	leaves	3020	18700				3040						
TAXACEAE													
<i>Taxus wallichiana</i>	extract (kg)		56	38	3	50000			180	6			Selected due to high variability in trade. Selected at PC15 in the trade review following CoP13.
THYMELAEACEAE													
<i>Aquilaria crassna</i>	chips (kg)							78	10018	180	176	CR	Selected as trade in endangered species. Listed in the CITES Appendices in 2005.
<i>Aquilaria</i> spp.	live									5	30000		Selected due to sharp increase in trade. Listed in the CITES Appendices in 2004. <i>Aquilaria malaccensis</i> was selected at PC12 for trade review following CoP11.
	chips (kg)	232660	725000			170	1409	260184	291603	5566	44900		
	stems (kg)								189	89	21		

Taxon	Term (units)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	IUCN	Notes
<i>Gonystylus bancanus</i>	carvings (m ³)							34	6085	740	866	VU	Selected due to high volume (globally threatened) and sharp increase in trade. Listed in Appendix II in 2005.
	timber (m ³)							5808	9179	12389	6655		
	carvings (kg)										6684		
<i>Gonystylus</i> spp.	carvings (m ³)							13247	3723	113	1		Selected due to high volume of trade. Listed in Appendix II in 2005.
	timber (m ³)							40927	10570	6859	6541		
<i>Gyrinops</i> spp.	chips (kg)							22700	64543	72964	22225		Selected due to sharp increase in trade. Listed in the CITES Appendices in 2005.
	powder (kg)								33250	9000	17000		
	timber pcs. (kg)										1090		
<i>Gyrinops versteegii</i>	chips (kg)							605			10000		Selected due to sharp increase in trade. Listed in the CITES Appendices in 2005.
	powder (kg)							7450					
ZAMIACEAE													
<i>Macrozamia communis</i>	live						70	170	123	375			Selected due to high volume in trade and high variability in trade. Review of Significant Trade in cycads published in 2003.
	leaves		4000							70000			
	stems			70000				10					
<i>Macrozamia moorei</i>	live	419	1382	1582	707	448	1995	2642	1036			NT	Selected due to high volume in trade (globally threatened). Review of Significant Trade in cycads published in 2003.
<i>Macrozamia moutperriensis</i>	live			4	50	9	1075	184	70				Selected due to high variability in trade. Review of Significant Trade in cycads published in 2003.
<i>Zamia elegantissima</i>	live							15				EN	Selected as trade in endangered species.
<i>Zamia</i> spp.	live	14		22	3	28	28	17					Selected due to high variability in trade. Review of Significant Trade in Cycads published in 2003.
	seeds			50			836						
ZYGOPHYLLACEAE													
<i>Guaiacum officinale</i>	dried plants										50	EN	Selected as trade in endangered species. Discussed as part of the review of medicinal plants following PC9.

Taxon	Term (units)	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	IUCN	Notes
<i>Guaiacum sanctum</i>	powder (m ³)								8				EN Selected as trade in endangered species and also met the high volume (globally threatened) criterion. Discussed as part of the review of medicinal plants following PC9.
	timber (m ³)	171	315	149	232	162	149	100	161	1778	74		

Table 2: Preliminary analysis of 2009 data showing plant taxa with high volume trade in 2009 or a sharp increase in trade in 2009 compared with the average trade levels for 2004-2008. Quantities rounded to the nearest decimal place, when applicable. Data extracted from CITES Trade Database on 1 December 2010. NB 2009 data are incomplete.

Taxon	Term (units)	Mean 2004-2008	2009	IUCN	Notes
AMARYLLIDACEAE					
<i>Galanthus elwesii</i>	live	5630824	5600000		Selected due to high volume of trade in 2009.
<i>Galanthus woronowii</i>	live	15540697.4	8920920		Selected due to high volume of trade in 2009.
BROMELIACEAE					
<i>Tillandsia xerographica</i>	cultures	0	150		Selected due to sharp increase in trade in 2009.
CACTACEAE					
<i>Cereus repandus</i>	live	0	280		Selected due to sharp increase in trade in 2009.
<i>Cleistocactus winteri</i>	live	0	3500		Selected due to sharp increase in trade in 2009.
<i>Echinocactus grusonii</i>	live	0.4	300	CR	Selected due to high volume (globally threatened) of trade and sharp increase in 2009.
<i>Echinopsis chamaecereus</i>	live	0.4	13090		Selected due to high volume of trade and sharp increase in 2009.
<i>Echinopsis chiloensis</i>	carvings	2808.2	9622		Selected due to high volume of trade and sharp increase in 2009.
	stems	32078.6	1080		
	stems (m.)	5759.2	10882.1		
<i>Eulychnia acida</i>	carvings	5073.4	22846		Selected due to high volume of trade and sharp increase in 2009.
	dried plants	0	340		
	stems	86423.2	7350		
	stems (kg)	0	1500		
	stems (m.)	16654.8	30268.7		
<i>Gymnocalycium mihanovichii</i>	live	0	415		Selected due to sharp increase in trade in 2009.
<i>Mammillaria hahniana</i>	live	0	1750		Selected due to sharp increase in trade in 2009.
<i>Opuntia cholla</i>	powder (kg)	0	2200		Selected due to sharp increase in trade in 2009.
<i>Opuntia</i> spp.	stems	960	60		Selected due to sharp increase in trade in 2009.
	stems (m ³)	0	23		
	stems (kg)	6000	45000		
<i>Opuntia streptacantha</i>	powder (kg)	0	1600		Selected due to sharp increase in trade in 2009.
<i>Parodia leninghausii</i>	live	0	400		Selected due to sharp increase in trade in 2009.
<i>Schlumbergera truncata</i>	live	0	8800		Selected due to high volume of trade and sharp increase in 2009.
CYATHEACEAE					
<i>Cyathea australis</i>	live	315.4	7583		Selected due to high volume of trade and sharp increase in 2009.
<i>Cyathea medullaris</i>	live	960.4	300		Selected due to sharp increase in trade in 2009.

Taxon	Term (units)	Mean 2004-2008	2009	IUCN	Notes
	dried plants (kg)	200	1265		
	extract (kg)	0	70		
	powder (kg)	400	870		
<i>Cycas revoluta</i>	live	60.4	23366		Selected due to high volume of trade and sharp increase in 2009.
EUPHORBIACEAE					
<i>Euphorbia antisyphilitica</i>	derivatives	0	1290		
	wax	0	10370		Selected due to high volume of trade and sharp increase in 2009.
	wax (kg)	587253.2	1672245.8		
<i>Euphorbia lactea</i>	live	4550	11250		Selected due to high volume of trade in 2009.
<i>Euphorbia primulifolia</i>	live	1234.4	300	VU	Selected due to high volume in trade (globally threatened) in 2009.
LEGUMINOSAE					
<i>Caesalpinia echinata</i>	logs (kg)	0	36815	EN	Selected due to sharp increase in trade in 2009. Listed in the CITES Appendices in 2007.
<i>Pericopsis elata</i>	timber (m ³)	20295.1	17048.6	EN	Selected due to high volume in trade (globally threatened) in 2009.
LILIACEAE					
<i>Aloe arborescens</i>	leaves (kg)	0	60000		Selected due to sharp increase in trade in 2009.
<i>Aloe ferox</i>	dried plants	4447	6820		
	extract	27440.9	2456		
	leaves	83032.2	31400		Selected due to high volume of trade in 2009.
	extract (kg)	461830.8	78354.7		
	extract (l.)	83265.6	14339		
<i>Aloe humilis</i>	live	0	350		Selected due to sharp increase in trade in 2009.
MELIACEAE					
<i>Swietenia macrophylla</i>	carvings	10.6	7102		
	carvings (m ³)	0.4	387.5		
	timber (m ³)	105043.5	29187.3		
	carvings (kg)	0	454.6	VU	Selected due to high volume in trade (globally threatened) and sharp increase in 2009.
ORCHIDACEAE					
<i>Brassavola cordata</i>	live	1.2	40		Selected due to sharp increase in trade in 2009.
<i>Broughtonia sanguinea</i>	live	2	100		Selected due to sharp increase in trade in 2009.

Taxon	Term (units)	Mean 2004-2008	2009	IUCN	Notes
<i>Bulbophyllum putidum</i>	live	0	10		Selected due to sharp increase in trade in 2009.
<i>Bulbophyllum</i> spp.	dried plants	41.4	1068		Selected due to sharp increase in trade in 2009.
	live	118	350		
<i>Dendrobium lindleyi</i>	live	2	20		Selected due to sharp increase in trade in 2009.
<i>Dendrobium pendulum</i>	live	1.2	10		Selected due to sharp increase in trade in 2009.
<i>Dendrophylax funalis</i>	live	14.8	50		Selected due to sharp increase in trade in 2009.
<i>Diplocaulobium</i> spp.	live	14.4	70		Selected due to sharp increase in trade in 2009.
<i>Liparis</i> spp.	live	2.8	30		Selected due to sharp increase in trade in 2009.
<i>Oncidium pulchellum</i>	live	1.6	50		Selected due to sharp increase in trade in 2009.
<i>Oncidium</i> spp.	live	5.4	50		Selected due to sharp increase in trade in 2009.
<i>Rhynchosstylis coelestis</i>	live	0	10		Selected due to sharp increase in trade in 2009.
<i>Rhynchosstylis gigantea</i>	live	1	355		Selected due to sharp increase in trade in 2009.
PRIMULACEAE					
<i>Cyclamen cilicium</i>	dried plants	66	100		Selected due to high volume of trade in 2009.
	live	246018.2	116150		
<i>Cyclamen coum</i>	live	521532	456095		Selected due to high volume of trade in 2009. Listed in the CITES Appendices in 2007.
<i>Cyclamen graecum</i>	dried plants	16	100		Selected due to sharp increase in trade in 2009.
	live	2.8	75		
<i>Cyclamen hederifolium</i>	live	886182	373550		Selected due to high volume of trade in 2009.
ROSACEAE					
<i>Prunus africana</i>	bark	2	66		VU Selected due to sharp increase in trade in 2009.
	bark (kg)	1849982	604755		
	carvings (kg)	0	12		
	extract (kg)	558.3	1676.2		
	leaves (kg)	0.3	31		
THYMELAEACEAE					
<i>Gyrinops versteegii</i>	chips (kg)	2121	9720		Selected due to sharp increase in trade in 2009. Listed in the CITES Appendices in 2005.
<i>Aquilaria beccariana</i>	timber (m³)	0	300	VU	Selected due to high volume in trade (globally threatened) and sharp increase in 2009. Listed in the CITES Appendices in 2005.

Taxon	Term (units)	Mean 2004-2008	2009	IUCN	Notes
<i>Aquilaria</i> spp.	live	6001	50000		Selected due to sharp increase in trade in 2009. Listed in the CITES Appendices in 2005.
	chips (kg)	120732.4	231534.4		
<i>Gonystylus bancanus</i>	carvings (m³)	1545	872.9	VU	Selected due to high volume in trade (globally threatened) in 2009. Listed in Appendix II in 2005.
	timber (m³)	6806.4	3349.9	VU	
	carvings (kg)	1336.8	5783.4	VU	
<i>Gonystylus</i> spp.	carvings (m³)	3416.9	94.8		Selected due to high volume trade in trade in 2009. Listed in Appendix II in 2005.
	timber (m³)	12979.3	3283.4		
ZAMIACEAE					
<i>Zamia floridana</i>	live	0	2965	NT	Selected due to high volume in trade (globally threatened) and sharp increase in 2009.
<i>Zamia furfuracea</i>	live	5800	12625	EN	Selected due to high volume in trade (globally threatened) in 2009.
ZYGOPHYLLACEAE					
<i>Guaiacum sanctum</i>	timber (m³)	452.2	260.2	EN	Selected due to high volume in trade (globally threatened) in 2009.