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Banana Industry Trust



**NATIONAL FOREST DEMARCATION AND BIO-PHYSICAL
RESOURCE INVENTORY PROJECT
CARIBBEAN – SAINT LUCIA
SFA 2003/SLU/BIT-04/0711/EMF/LC**

BIODIVERSITY ASSESSMENT OF SAINT LUCIA'S FORESTS, WITH MANAGEMENT RECOMMENDATIONS

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2009



Cover illustrations: Cloud Montane Forest on Mount Gimie Range (Roger Graveson, FCG); Saint Lucia iguana (Matthew Morton, FCG-Durrell); Deciduous Seasonal Forest at Grande Anse (Jenny Daltry, FCG-FFI).

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Executive Summary

Saint Lucia's forests perform essential functions in safeguarding and regulating the island's water supply, preventing soil erosion and landslides, and supporting the country's present and future renewable fuel supply. The forests also support, and are maintained by, a rich diversity of animals and plants, many of which are unique to this island.

This report summarises the main findings and recommendations of a series of ecological studies conducted between September 2008 and September 2009. More than 750 person-days were spent in the forests to conduct this work, with more than 25 international and 13 national personnel taking an active part (as well as more than 250 local interviewees). More than 300 forest sites were visited nationwide to understand the forest biodiversity and its spatial variation, both inside and outside of the Forest Reserves.

Some of the major achievements and findings of this work were:-

- The development of a robust, user-friendly classification system for all forests and other major vegetation types on Saint Lucia, together with a new vegetation map.
- The discovery of well over 650 forest species not previously recorded in Saint Lucia - most of them invertebrates - and an updated and significantly enlarged inventory of forest plants and animal, summarised as follows (species checklists are appended to this report):

	Saint Lucian endemic species	Indigenous species	Alien species	Total species
Seed-bearing plants	10	1,009	282+	1,291
Ferns	0	138	7	145
Mammals	1 (+1 subsp.)	10	7	17
Birds	5 (+13 subspp.)	132	2	134
Reptiles	7 (+5 subspp.)	13	6	19
Amphibians	1	2	3	5
Beetles	144	777+	39+	816
Dragonflies	0	26	0	26
Flies	19	?	?	134
Total species	187	>2,107	>346	2,537

- An analysis across most taxa revealed that the deciduous and semi-evergreen seasonal forests support an even greater variety of indigenous species than the rainforests, including a larger number of island endemics and globally threatened species. However, the seasonal forests also contained the majority of alien invasive species.
- Improved distribution maps were compiled and new information collated on the ecology and relative abundance of many of the vertebrate animals. By applying international criteria for assessing threat, it was revealed that many Saint Lucia forest species are globally threatened with extinction and should be added to the IUCN Red List accordingly.

Daltry – Biodiversity Assessment

- Twenty-five priority areas for biodiversity conservation were identified both inside the Forest Reserves (12 sites) and outside of the Forest Reserves (13 sites). If managed appropriately, these could conserve virtually all of the indigenous forest species on Saint Lucia.
- A preliminary analysis of the carbon storage of Saint Lucia's forests was conducted, showing that approximately 1.8 million tonnes are stored within the Forest Reserve and 1.2 million tonnes outside the Forest Reserve. There is clear potential for the latter figure to increase by enabling young secondary forests to mature.

A participatory threat analysis was carried out to identify the main threats and pressures on forest biodiversity. Chief among the threats were the ongoing degradation and loss of deciduous seasonal forests, mangroves and freshwater swamp forests to residential, tourism and other developments, alien invasive species; and, for a few species, over-exploitation. The analysis demonstrated that forests outside of the Forest Reserve system were approximately four times more at risk from severe threats than forests inside the reserves: a testimony to the effectiveness of the reserves' management.

The ecological team, however, also identified many promising opportunities to mitigate or reverse the threats to Saint Lucia's forest ecosystems. Among the top priority recommendations are:-

1. Within the Forest Reserves, establish and implement site management plans that integrate biodiversity conservation with other forest uses and services
2. Make a concerted effort to safeguard important forests outside of the current Forest Reserves, with particular attention to deciduous and semi-evergreen seasonal forests
3. Control the introduction and spread of alien invasive species that seriously endanger Saint Lucia's forests and their biodiversity.
4. Revise and amend the national legislation to reflect the current status and needs of Saint Lucia's forest biodiversity.
5. Develop species management plans for exploited and threatened species, and ensure their Red List status is up to date.
6. Conduct applied research to inform and monitor the management of Saint Lucia's forest biodiversity.
7. Strengthen local and national understanding and support for forest biodiversity conservation, with special attention to the lesser-known forest types.
8. Foster the development of civil society organisations as a tool for lobbying for and enhancing the conservation of forests and their biodiversity.

1. Introduction

1.1. Context of this Report

This report is a synthesis of a series of ecological studies conducted as a part of the National Forest Demarcation and Bio-Physical Resource Inventory Project, funded by the European Community under the Saint Lucia SFA2003 Programme of Economic and Agriculture Diversification and Poverty Reduction through Integrated National Resources Management. The purpose of this inventory project was “to survey and demarcate the physical parameters of the public forest reserve and conduct a comprehensive biophysical inventory/ assessment and management system of forest resources”. The present report contributes especially towards project Result 3 (“*comprehensive report on the current state of forest resources [...biodiversity, wild fauna etc], with recommendations for sustainable management practices*”, including “*f. vegetation classification*” and “*g. species list*”); Result 5 (“*an assessment of wildlife use attributes identifying critical habitats and recommendation for sustaining habitats of important, rare or endangered animal species*”) and the overlapping Result 9 (“*comprehensive report on the nature, magnitude and geographical scope of forest resources [...biodiversity, carbon storage and processes]*”).

The ecological research programme began during the final quarter of 2008 and continued until August 2009. It comprised original field-based studies of the status, ecology and conservation needs of Saint Lucia’s forest mammals (Clarke, 2009), reptiles and amphibians (Daltry, 2009), birds (Toussaint *et al.*, 2009), beetles, flies, dragonflies and other insects (Ivie, in prep.) and selected vascular plants (Graveson, 2009b). For some of the most threatened species, Morton (2009a) provided a further analysis of their ecology and management needs. A major component of this programme was an assessment of the island’s vegetation, which resulted in the vegetation classification system described by Graveson (2009a) and summarized in section 2.1. Finally, Morton (2009b) examined the use of selected wild forest animals and plants by local people.

All of these studies can be pooled under the title of forest biodiversity assessment. Biodiversity is often considered by forest managers as simply a list of the species present, some of which may be useful. Biodiversity in fact has a much wider definition than that: the Convention on Biological Diversity defined “biological diversity” as the variability among living organisms from all sources including terrestrial, marine, and other aquatic ecosystems and the ecological complexes of which they are part. This includes diversity within species, among species, and of ecosystems.

This report draws out some of the research highlights and presents the main recommendations for conserving Saint Lucia’s remarkably rich yet fragile forest biodiversity. For further details of the methods and findings, please refer to the technical reports cited above for each taxon or theme.

1.2. Biodiversity Research Team

Although the project documents called for one Conservation Biologist to work throughout the project, a larger team was drawn together on the same budget to boost productivity and study as wide a range of taxa and issues as possible (**Table 1**). More than 25 international and 13 national personnel took part (not including more than 250 interviewees in the survey of wildlife use: Morton, 2009b).

Daltry – Biodiversity Assessment

Table 1 The Project Biodiversity Team

Name	Institution	Role	Dates	Working with (international)	Working with (national)
Project Conservation Biologist/ Team Leader					
Dr Jennifer Daltry	Fauna & Flora International	Technical oversight of research outputs. Reptile and amphibian survey	Oct 2008 – Dec 2009- (part time)	All listed staff below.	All listed below. Specifically included Stephen Lesmond Nereus Mitchel and Canice Peterson on reptile survey.
Critical Habitats Specialist					
Matthew Morton	Durrell Wildlife Conservation Trust	Wildlife use, priority species, key conservation areas, Other.	Jan 2008 – Dec 2009 (part time)	All listed staff below.	All listed below.
Bird Specialist					
Adam Toussaint	Saint Lucia Forestry Department	Bird survey	July, August 2009	M. Morton (analysis)	Lyndon John
Project Mammalogist					
Dr Frank Clarke	University of Aberdeen	Mammal survey	Jan-May 2009	J. Daltry (part), M. Morton (analysis)	George Antione Timothy Jno Baptiste Alwin Dornelly Mary James Stephen Lesmond Randall Marius Nereus Mitchel Canice Peterson Melvyn Smith
Project Entomologist					
Prof. Michael Ivie	Montana State University	Entomological survey	26 Apr – 17 Jul 2009	Dr Don Bright Dr Michael Caterino Dan J. Cavan Dr Evelyn Clark Dr Dalton Clark Dr Shawn M. Clark Dr Andrew Cline Ian A. Foley Leslie E. Foley Dr Stephen Gaimari Dr Matthew Gimmel Katie J. Hopp LaDonna L. Ivie Eli A. Ivie Dr James B. Johnson Tiffany Lillrose Crystal A. Maier Dr Justin Runyon Dr Fred Sibley Ross Winton (plus undergraduates)	Melvyn Smith
Project Botanist					
Roger Graveson	Independent	Plant survey, vegetation classification, herbarium developments	Jan 2008 – Dec 2009 (part time)	J. Daltry (analysis) M. Morton (GIS) Vijay Datadin (GIS)	Chris Sealys, Melvin Smith Rebecca Rock (GIS)

This enlarged team brought a wide range of specialist skills and spent well over 750 person-days in the forests between September 2008 and September 2009. The majority of the team members generously gave their time at no charge, for the sake of furthering science and understanding of the island's biodiversity. More than 300 locations were visited nationwide to understand the forest composition and its spatial variation, both inside and outside of the Forest Reserves.

Most of the international experts who took part in this survey provided 'on the job' training and mentoring to national counterparts, and the team leader delivered a one-week training class for 15 national personnel on ecological survey techniques. This transfer of skills and information was a two-way exchange, however, as the majority of the national personnel who participated in the surveys (**Table 1**) already had an impressive knowledge of the island's wildlife, its use and its history. Adams Toussaint and members of the Wildlife Unit proved to be especially well informed about the island's wildlife and contributed invaluable information to many of these studies. Melvin Smith must also be singled out here, for his outstanding knowledge of Saint Lucia's flora (Graveson, 2009b).

1.3. Saint Lucia: A Brief Introduction

Saint Lucia is in the Windward Islands of the Lesser Antilles in the West Indies. Its closest neighbouring islands are Martinique, 32km to the north, and Saint Vincent, 40km to the south. It is the second largest island of the Lesser Antilles, with an area of 616km², and with a maximum length and width of 43km and 21km, respectively. The human population today is close to 166,838 residents, giving a mean density of approximately 1,036/km², but much of the island's interior is uninhabited.

Volcanic in origin, Saint Lucia has a mountainous topography dominated by a central ridge running almost the full length of the island from north to south. Numerous steep offshoot ridges extend to both sides of the coasts. Some valleys are broad and occupied by large banana plantations, including Cul-de-sac, Roseau and Mabouya. These valleys, together with the area around the town of Vieux-Fort in the South, account for most of the flat lands of the country. The central southern part of the country has high mountains (Mount Gimie being the highest at 958m). The coastlines, particularly the east coast, are deeply indented by near-vertical cliffs and have a number of narrow sandy beaches.

The island's tropical marine climate is characterized by relatively uniform high temperature throughout the year. The dry season is roughly from January to April and the rainy season from May to August, with usually sunny, warm weather from September to October. (This pattern is variable, however, and the present study regularly experienced torrential storms). Tropical storms and hurricanes are infrequent, with the majority of West Indian tropical cyclones passing to the north of Saint Lucia. The hottest period is May to October, and the coolest, December to March, giving a mean annual temperature of approximately 26°C at sea level. Annual rainfall varies from 1,524-1,778mm in the north to 2,540-3,683mm in the mountainous interior of the south.

Approximately 30% of Saint Lucia's land area is pastoral and arable land. Originally the mainstay of the economy, agriculture has been in decline in recent years, contributing only 3.4% of Gross Domestic Product (GDP) in 2005, with bananas the principal export crop. The economy has shifted to a service economy, with tourism the largest economic sector, accounting for 13.6% of GDP in 2005.

2. The Forests and Their Biodiversity

2.1. Forest Diversity

Forests, defined for the purposes of this study as any area dominated by trees (including woodlands with a broken canopy), cover more than 20,000 hectares¹, approximately one third Saint Lucia's land area. Almost half are within the network of government Forest Reserves, with a total area of 9,196 hectares. Much of this forest is mature but secondary, including extensive tracts of deciduous seasonal forest that are reclaiming abandoned cotton plantations at lower elevations. Most forest areas have also been modified by human activities, such as grazing, cutting for charcoal and planting of exotic trees. Natural disturbances, such as landslides and hurricanes, also explain why relatively few of the forest areas display a classic climax structure: they are constantly changing (Graveson, 2009b).

A long history of human disturbance, and even more importantly, natural spatial variation in topography, rainfall, temperature, wind exposure, and geology, have given rise to an astonishingly diverse array of forest forms. These range from cacti-dominated forms on offshore islands, which receive less than 1,500mm rain and endure long droughts, to lush rainforests that receive more than 3,000mm of precipitation and are almost permanently enveloped in cool mist. As part of the present project, Graveson (2009a) developed a much-needed new classification system for Saint Lucia, which identified 10 very distinct, natural forest classes (summarized on **Table 2**) as well as other vegetation types. The new vegetation map shows the distribution and extent of the main vegetation classes (**Fig. 1**).

This impressive variety of forest types in turn provides a rich diversity of habitats for numerous animal and plant species, as summarised below and in **Table 3**. Forests are not merely vessels for wildlife, however, but are living ecosystems that actively created and maintained by the animals and plants that inhabit them. As well as obvious roles above ground, such as pollination and seed dispersal, living organisms are crucial in the recycling of nutrients and formation of soil. As the world has become increasingly aware of the importance of tropical forests and their soils in capturing and storing excess carbon, it should be noted that mature natural forests with high biodiversity make a significantly greater contribution than forests that have been degraded and weakened by the loss of native species (Thompson *et al.*, 2009).

Climate change is indicated several times in the captions above, and has been identified as a serious threat to Saint Lucia's forests (section 5.1). Maintaining and restoring biodiversity in forests increases their resilience to human-induced pressures and is therefore an essential 'insurance policy' and safeguard against expected climate change impacts. Thompson *et al.* (2009) observed that "*Plantations and modified natural forests will face greater disturbances and risks for large-scale losses due to climate change than primary forests, because of their generally reduced biodiversity.*" It should be conceded, however, that even modified forests are much better at mitigating climate change than almost any other forms of land use.

¹ FAO (1996) registered 20,073 hectares of natural forest, or 35% of Saint Lucia's land area. Definitions, and therefore published measurements, of Saint Lucia's forests vary, however, with some authors measuring only the rainforest areas or areas with an unbroken forest canopy.

Figure 1 Forests and other vegetation types of Saint Lucia

Provisional map from Graveson (2009a).

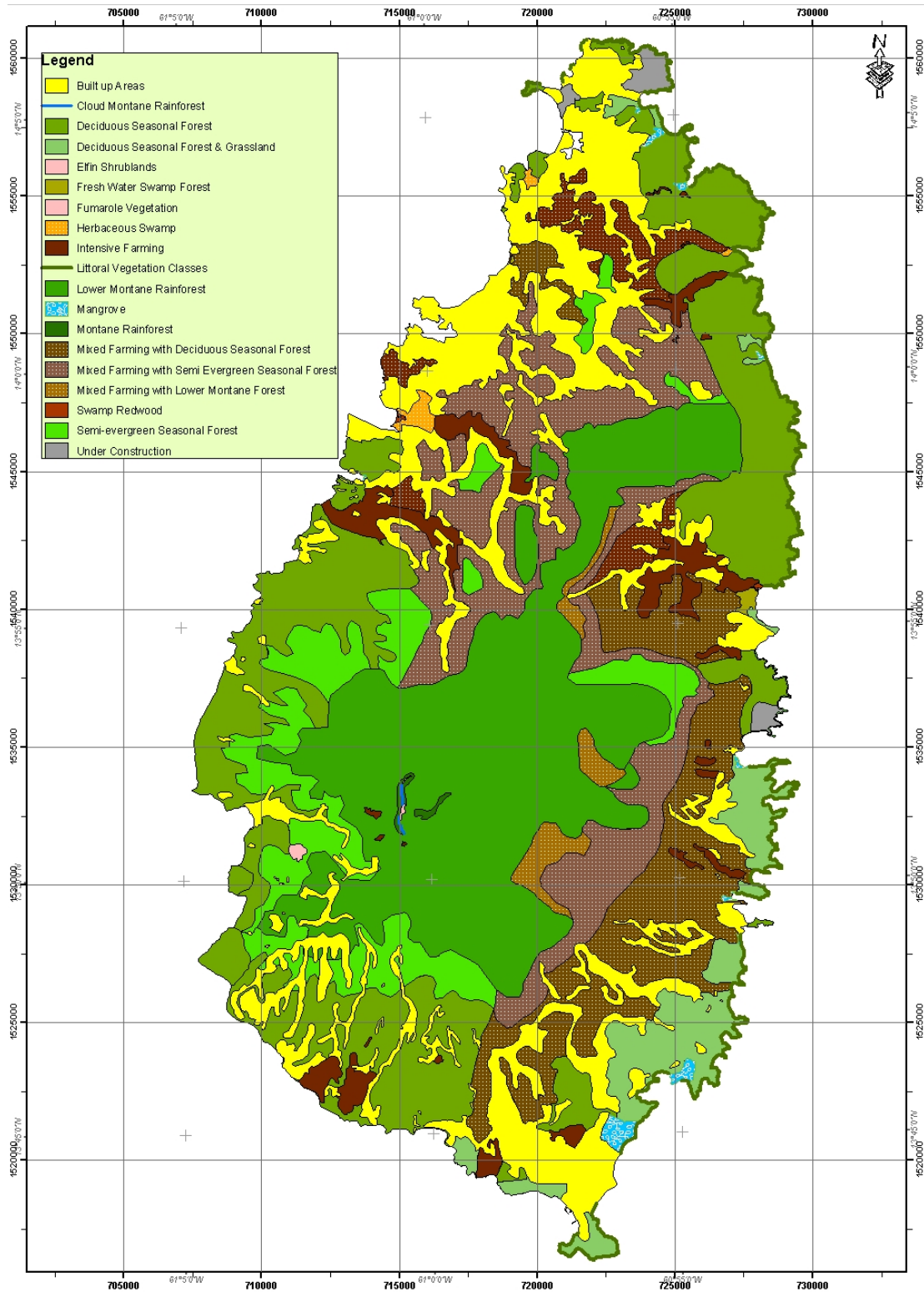


Table 2 Forest types of Saint Lucia

See Graveson (2009a) for more extensive descriptions and illustrations, including a further eight vegetation classes.

1. Elfin Shrublands



Naturally scarce and vulnerable.

This shrubland vegetation class is found only in the windiest spots on the Mount Gimie/ Troumassée ridges and peaks, at an elevation above 700 metres. The canopy is up to two metres tall, but often less, with an occasional slightly taller *Prestoea acuminata* palms. Cloud and mist cover, with heavy rainfall, is predominant with occasional short periods of sunshine. Relatively few species are found in this vegetation type: mainly a mixture of bromeliads, sedges and grasses and shrubs, with many Lesser Antillean endemics. Because this vegetation type has specialist climatic needs, it is most threatened by climate change (rising temperatures and/or reduced mist and rain).

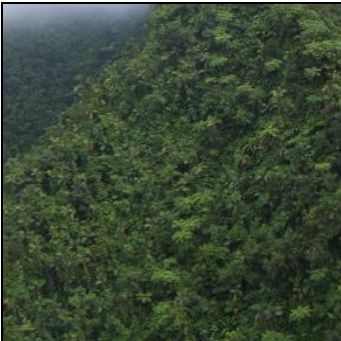
2. Cloud Montane Forest



Naturally scarce and vulnerable.

This vegetation class is found on the high summits of the Mount Gimie range, including Piton Troumassée (although not in the most windy spots), at an elevation of 700 metres or higher and possibly the eastern interior end of Mount Tabak ridge and a small area on the western end of the La Sorciere ridge. The canopy is about 8m high with occasional much taller trees of *Freziera undulata*. Terrestrial ferns, anthuriums, bromeliads, and epiphytes are very common; moss cover is often several centimetres thick. Cloud and mist cover, with heavy rainfall, is predominant, with only occasional and short periods of sunshine. This vegetation type is most threatened by climate change, because its species need almost continual cloud cover.

3. Montane Forest



Naturally rare.

Montane Rainforest is on the western side and sheltered eastern slopes of the Mount Gimie Range, including Piton Troumassée, above 650m. Slopes are extremely steep, rainfall is very heavy, there is little wind and landslides are very common. The steepest areas are covered with tree ferns and palms, with canopy height of four to six metres, with some scattered taller trees on slightly less steep areas. This class is similar to Lower Montane Rainforest in terms of species, but it has a very characteristic appearance. Although this vegetation type is rare, it is not at risk unless climate change is very severe.

4. Lowland Montane Rainforest

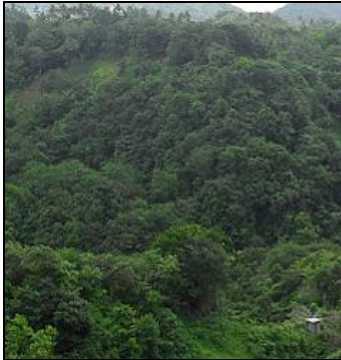


Abundant and well protected

Trees are evergreen because there is usually no water deficit. Trees of all heights are found (up to 45m), without clear divisions into separate canopy layers. Although there may be a shrub, fern and herbaceous (mainly Anthuriums) ground cover, this forest class is easy to walk through except where the canopy has been destroyed and ferns, vines and shrubs colonise the clearing. In comparison to Semi-evergreen Seasonal Forest, the canopy height, wind, and incline are greater and there is a greater abundance of vines, epiphytes, ferns and mosses. Trees are more tightly packed, and the trees can be much wider in girth, and often have buttress roots. This forest class has been recorded from 100-680m above sea level.

5. Semi-evergreen Seasonal Forest

Severely reduced and fragmented



Semi-evergreen Seasonal Forest occupies the zone between Deciduous Seasonal Forest and Lower Montane Rainforest. It is characterized by upper canopy trees with rather thin, often broad, and quite often compound leaves, which may lose some, but not all, of their leaves during a dry spell. There are no, or very few, epiphytes, ground ferns and mosses. Elevation ranges from almost sea-level (in ravines) to the summit of Gros Piton. In comparison with Deciduous Seasonal Forest, this forest class has a higher canopy and greater canopy cover and trunks with a greater girth, and it occurs in less windy areas, and generally at a higher elevation. Most of this forest type has been replaced by farmland (e.g. most banana plantations are in this zone).

6. Deciduous Seasonal Forest

Widespread, but degraded and at risk



This vegetation class covers large areas in Saint Lucia from the coast to the summit of Petit Piton (700m), but virtually all is secondary and much of it degraded. It merges inland with the Semi-evergreen Seasonal Forest. The taller trees tend to lose all their leaves in most dry seasons, but the smaller trees and shrubs are evergreen. Its overall appearance during a normal dry season is of a more or less leafless canopy. There is no moss or cover of ground ferns. Vines and herbaceous ground cover are present, particularly in disturbed areas. Residential and tourism developments, livestock grazing and fire are the greatest risk to this class on a large scale.

7. Littoral Evergreen Forest and Shrubland

Widespread, at moderate risk



Behind sandy beaches, rocky cliffs and pavements, an evergreen forest or shrubland is found, especially on the Atlantic coast. The harsh conditions caused by wind, salt-spray, often a thin soil and a water deficit even during most of the wet season, favour an evergreen arborescent flora with thick leathery leaves. *Coccoloba uvifera* (wézen, siwiz, sea grape) is commonly present in this vegetation class. This class is at some risk from coastal residential and tourism developments.

8. Littoral Scrub, With or Without Cacti

Widespread, at moderate risk



This type of vegetation is found in a narrow zone between littoral rock and cliff vegetation and Deciduous Seasonal Forest or Littoral Evergreen Forest. It consists of shrubs, cacti and sometimes grassy spaces.

9. Freshwater Swamp Forest



Naturally uncommon, at severe risk
This vegetation class is independent of direct rainfall and more dependant on edaphic (soil) water. Freshwater Swamp Forest occurs in flat areas close to sea level, with a permanent or seasonal freshwater flow and no inflow of salt water. Trees are evergreen and there is a tendency for single-species stands to form. The soil becomes muddy because the water table reaches the surface for at least part of the year, and is sometimes inundated. This class ranges from permanently muddy, occasionally inundated swamp redwood forest beside rivers with a permanent flow of water, to forest on flat areas behind beaches that rely on seasonal creeks to maintain the high water table. Threatened by manmade changes to water flow.

10. Mangrove



Naturally uncommon, at severe risk
Mangrove is an evergreen forest of brackish water. This well-known vegetation class contains only a few widely distributed, salt-tolerant species. In Saint Lucia, Mangrove forests contain four tree species and are mainly on the Atlantic coast. Mangroves are threatened by manmade changes to water flow and cutting for charcoal.

Of the natural vegetation classes above, the Forest Reserve system is predominantly covered by the ‘wet’ forest formations: especially Lowland Montane Rainforest, together with virtually all of the country’s Montane Forest, Cloud Montane Rainforest and Elfin Shrublands. They also contain several hundred hectares of plantations of exotic trees (2.4.1), intermingled with the native species. The reserves contains only a few small, but significant, patches of Deciduous Seasonal Forest and Semi-evergreen Seasonal Forest (section 3.2) and none of the other lowland classes.

The majority of forest types shown in **Table 2**, as well as other non-forest vegetation types described by Graveson (2009a), are thus situated outside of the reserve, in areas that lack formal protection (section 3.3).

2.2. Plant Diversity

2.2.1. Vascular plants

1,147 native terrestrial vascular plants have been documented on Saint Lucia to date, including 11 new national records in 2009. Most of the native species are forest plants. At least ten species are endemic to Saint Lucia (*Acalypha elizabethiae*, *Bernardia laurentii*, *Cuphea crudiana* [possibly extinct], *Chrysochlamys caribaea*, *Daphnopsis macrocarpa*, *Gonolobus iyanolensis*, *Lobelia santa-luciae*, *Miconia luciana*, *Miconia secunda*, and *Siparuna sanctae-luciae*) and many more have only a restricted range within the Lesser Antilles.

Table 3: The Terrestrial (Non-Marine) Flora and Fauna of Saint Lucia

Not including non-vascular plants, fungi, crustaceans, and many other groups.

	Vascular Plants		Mammals	Vertebrate Animals			Invertebrate Animals			Total known
	Seed plants	Ferns and their allies		Birds ²	Reptiles	Amphibians	Beetles ³	Dragonflies	Flies	
Native species	c. 1,009⁴	138	10	132	13	2	777+	26?	?	2,107
Saint Lucia endemic species	10	0	1	5	7	1	c. 144 (49 uncertain)	0	c. 19	187
Saint Lucia endemic subspecies	1+	0	1	13	5	0	n/a	0	?	20
Lesser Antilles endemic species	111	7	3	15	10	2	c. 204	3	?	355
Caribbean endemic species	200	16	4	23	10	2	c.252 (West Indies)	3	?	510
Extinct/ Extirpated (not recorded for decades)	63	0	2	1	2	1	n/a	?	?	69
Taxa listed as globally threatened by IUCN (2009)	6 (1xCR, 2xEN, 3xVU)	0	1 (1xEX)	5 (1xCR, 2xEN 2xVU)	2 (1xEN, 1xVU)	1 (1xCR)	0	0	0	15
Taxa qualifying as globally threatened using IUCN criteria	6+	?	1+	5+	10 (7 spp.; 3 subsp.)	1 (1 sp.)	?	?	?	23
Alien (non-native) species	282+	7	7	2	6	3	39+	0?	?	346
TOTAL SPECIES (native and alien)	1,291	145	17	134	19	5	816	26	c. 134⁵	2,587

² Residents (72 species) and migrants only: vagrant records are excluded. Figures include shorebirds and seabirds that feed or breed on the coast.

³ The number of native beetles and alien beetles are incomplete. A total of 816 beetle species had been recorded by M. Ivie as of 16 November 2009.

⁴ Possibly an overestimate because the indigenous ranges of many neotropical plants are poorly known. Graveson (2009b) reported only 945 indigenous seed-plants (including two seagrasses) and fewer endemic species, but omitted recent (2009) findings and species that had not been collected since the 1930s (Annex).

⁵ 1,200 species of flies (and over 1,000 beetles) are predicted to be found on Saint Lucia, with further survey effort (M. Ivie, pers. comm.).

An additional 289 non-native species have also become established in natural habitats (i.e. outside of farmland and residential areas) from plants deliberately or accidentally imported to the island. Graveson (2009b) divided these alien species into ‘escaped’ (species that have remained close to where they were introduced) and ‘naturalized’ (more invasive species that have dispersed themselves widely). Some of the most invasive plants in Saint Lucia are the common bamboo (*Bambusa vulgaris*), African tulip tree (*Spathodea campanulata*), water hyacinth (*Eichornia crassipes*) and leucaena (*Leucaena leucocephala*). The majority of alien plants have been observed in degraded forests in lowland areas: it appears that relatively few have been successful at invading the mature rainforests to date.

Currently, only six native plants⁶ (0.5% of native vascular species) are listed as globally threatened by IUCN (2009): Critically Endangered: pencil cedar (*Juniperus barbadensis* var. *barbadensis*); Endangered: lignum vitae or gayak (*Guaiacum officinale*); pennepis (*Pouteria pallida*); Vulnerable: red cedar or acajou (*Cedrela odorata*); arkokwa (*Zanthoxylum flavum*); and contweven (*Pouteria semecarpifolia*). Although *Pouteria semecarpifolia* is recognised as globally threatened, it is in fact still very common on Saint Lucia (R. Graveson, pers. comm.).

Most plant species have not even begun to be evaluated against the IUCN criteria, however, and further research is likely to reveal many species are globally and nationally threatened with extinction. Graveson (2009b) revealed more than 60 indigenous plants have not been recorded since the 1930s – which probably means they have either been extirpated or were incorrectly attributed to Saint Lucia in the first place – and a very large number of species are now scarce or highly localized.

Among the species considered to be at risk today are akoma or yellow mastic (*Sideroxylon foetidissimum*); arkokwa (*Zanthoxylum flavum*); balata (*Manilkara bidentata*); bois caille or bois rouge (*Carapa guianensis*); lowye kannel (*Aniba ramageana*); lignum vitae (*Guaiacum officinale*); pencil cedar (*Juniperus barbadensis*); and *Bernardia laurentii*. The latter two occur only on the summit of Petit Piton, where they are at risk from fire and invasive ornamentals. Species confined to highest elevation vegetation types are currently well protected, but are likely to be among the first species to be lost to climate change, e.g. the endemic Saint Lucia lobelia (*Lobelia santa-luciae*). Lansan (*Protium attenuatum*) and latannyé (*Coccothrinax barbadensis*) are currently widely harvested and at risk from overexploitation.

2.2.2. Non-vascular plants

While the national checklist of vascular plants is considered largely complete and up to date, the non-vascular plants (bryophytes), including mosses and liverworts, have not been surveyed in recent years. There appear to be no published lists or statistics on these.

⁶ IUCN also list a seventh globally threatened (Vulnerable) plant, the small-leaved mahogany (*Swietenia mahagoni*), as being native to Saint Lucia. Botanist Roger Graveson believes that this tree does not naturally occur, on Saint Lucia, and is present only where it was planted for its timber.

2.3. Animal Diversity

One hundred and fifty seven native terrestrial vertebrate animals have been confirmed on Saint Lucia, the majority of which are forest birds. Endemicity is impressively high, with 14 species and at least 19 recognised subspecies that naturally occur only on Saint Lucia. The number of alien vertebrate animals is also high and growing, however, and has driven some of the native fauna to extinction.

2.3.1. Mammals

Nine of the 10 confirmed native mammals are bats, with only one exception, the large endemic Saint Lucia musk rat (*Megalomys luciae*), which has not been formally recorded since the 1880s and is probably extinct (attempts to find this species in 2009 were unsuccessful: Clarke, 2009). Although most of the bats are widespread throughout the Lesser Antilles, many species are in decline due to the loss of forest cover, major roost sites and other factors, and Saint Lucia has an important role to play in their conservation. One bat subspecies is endemic, the Saint Lucia little yellow-shouldered bat (*Sturnira lilium luciae*), and another occurs only on Saint Lucia and Saint Vincent (the tree bat *Ardops nichollsi luciae*). Most bat species are present in the rainforests of the Forest Reserves, but there are important foraging and roosting areas in the forests outside of the reserve system (Clarke, 2009). None of the bats are currently protected by law.

The mammal list has become significantly enlarged with the introduction of the southern opossum (*Didelphis marsupialis*), Brazilian agouti (*Dasyprocta leporina*), feral pigs (*Sus scrofa*), rats (*Rattus rattus*, *R. norvegicus*), mice (*Mus musculus*) and small Asian mongoose (*Herpestes javanicus*), many of which pose a very serious threat to native species and have significantly altered the natural forest ecosystem. Rats have been successfully eradicated from Praslin, Dennery and Rat islands, but most of the alien mammals have spread unchecked, and two species are even protected under the Wildlife Protection Act (the opossum and agouti).

2.3.2. Birds

Of the 132 birds regularly recorded on Saint Lucia (i.e. not vagrants), 72 are year-round residents and the remainder are migrants. Saint Lucia boasts one of the highest levels of bird endemicity in the region, with five endemic species (Saint Lucia amazon *Amazona versicolor*, Saint Lucia black finch *Melanospiza richardsoni*, Saint Lucia oriole *Icterus laudabilis*, Saint Lucia warbler *Dendroica delicata*, and Semper's warbler *Leucopeza semperi* [possibly extinct]) and 13 endemic subspecies. Five birds – all forest species – are currently listed as globally threatened with extinction (IUCN, 2009) i.e., Critically Endangered: Semper's warbler; Endangered: Saint Lucia black finch, white-breasted thrasher (*Ramphocinclus brachyurus*); and Vulnerable: Saint Lucia amazon, forest thrush (*Cichlherminia lherminieri*). The Saint Lucia oriole is listed as Near Threatened.

The vulnerable Saint Lucia amazon is recovering strongly thanks to concerted conservation efforts, but a number of other forest birds appear to be in decline, including the Saint Lucia oriole, Saint Lucia nightjar (*Caprimulgus rufus otiosus*), the endemic subspecies of white-breasted thrasher (*R. b. sanctaeluciae*), Saint Lucia wren (*Troglodytes aedon mesoleucus*), and the rarely-seen forest thrush (*C.l. sanctaeluciae*) (Toussaint *et al.*, 2009). The Forest Reserves clearly play a critical role in conserving the species at greatest risk of extinction, with about 19% of the 16 'priority birds' restricted to these rainforests, and a further 44% also using this habitat. However, 38% of the priority birds almost entirely in habitats outside the Forest Reserve, chiefly the deciduous seasonal forests

(Toussaint *et al.*, 2009). An analysis of the areas used by migrant birds also found the majority of records fell outside of the forest reserves (Toussaint *et al.*, 2009)..

2.3.3. Reptiles and amphibians

‘The Place Where the Iguana is Found’ (Iouanalao), is also a country of outstanding significance for reptiles, with seven endemic species - 53% of indigenous terrestrial species - Saint Lucia anole *Anolis luciae*, Saint Lucia whiptail *Cnemidophorus vanzoi*, Saint Lucia pygmy gecko *Sphaerodactylus microlepis*, Saint Lucia fer-de-lance *Bothrops caribbaeus*, Saint Lucia cribo *Clelia errabunda*, Saint Lucia thread snake *Leptotyphlops brulei*, and Saint Lucia racer *Liophis ornatus*. There are five endemic subspecies, including the Saint Lucia boa *Boa constrictor orophias*. Three full species have become extinct in recent history, however. While only two reptiles are currently shown on the IUCN (2009) Red List as threatened with extinction (Endangered: Saint Lucia racer; Vulnerable: Saint Lucia whiptail), almost all of the endemic taxa are in serious decline and meet IUCN’s criteria as being globally threatened, including the endemic pygmy gecko (both subspecies), thread snake and fer-de-lance (Daltry, 2009).

Six alien reptiles have been documented on Saint Lucia since 1900, of which only three have persisted. These include an alien green iguana (*Iguana iguana*) which is undoubtedly capable of wiping out the endemic iguana unless it is eradicated. Another alarming discovery of the present survey was that another alien lizard, *Anolis watsi*, which was previously believed to be harmless, is spreading very rapidly across the island and appears to be capable of displacing the endemic *Anolis luciae* (Daltry, 2009).

The amphibian list is considerably shorter, as is usually the case on oceanic islands, with only two native species documented: the endemic, and very abundant, Johnstone’s whistling frog (*Eleutherodactylus johnstonei*) and the now-extirpated mountain chicken (*Leptodactylus fallax*), a Lesser Antillean endemic. Three alien amphibians have been reported, of which two have continued to flourish, including the notorious cane toad (*Bufo marinus*).

The forest class with the greatest diversity and abundance of reptiles and amphibians is mature Deciduous Seasonal Forest, closely followed by mature Freshwater Swamp Forest and Semi-Evergreen Seasonal Forest. Forests with low herpetofaunal diversity and abundance were Elfin Shrubland, Lower Montane Rainforest, Fumarole Vegetation and Mangrove. Human degradation of all forest classes was significantly associated with an increased number of alien invasive reptiles and amphibians. These findings tell us that the forest classes that are best represented in the protected area system have the lowest diversity and abundance. The species-rich Deciduous Seasonal Forests and Freshwater Swamp Forests are largely outside of the protected zone and thus at risk. An important exception to this rule are the xeric Maria Islands (12ha), which supports seven native species, most of which are scarce or absent from the ‘mainland’.

2.3.4. Invertebrates

The invertebrate fauna, while greatly outnumbering the vertebrate animals in terms of number of species and orders, is only partially known. The 2009 ecological surveys included the first intensive forest insect survey, especially beetles (Coleoptera – the most diverse order of insects), but also flies (Diptera), dragonflies (Odonata) and other selected insect orders.

Prior to this study, only 179 species (27 families) of beetles had been formally documented in Saint Lucia (plus a further 33 unpublished records). The present survey increased this total to at least 816 species in at least 70 families⁷, of which 739 species were collected in 2009 (M. Ivie, pers. comm.). This is a significantly larger number of species than have been found during longer term beetle inventories on Dominica and Monserrat. The actual number of beetle species present is likely to be well over 1,000. (M. Ivie, pers. comm.). This diversity does include a large number of alien beetles, however, at least three of which were deliberately introduced as biocontrol agents (*Diomus roseicollis*, *Pseudoazyza trinitatis* and *Coleophora inaequalis*). Approximately 144 (18%) of the beetle species found to date have been tentatively identified as species endemic to Saint Lucia, but many of these have not been formally named yet (see Annex Table C). Among the few species of beetles previously recorded on Saint Lucia is the very large hercules beetle (*Dynastes hercules reidi*), which is restricted to montane areas.

The beetle study in 2009 found that diversity of species decreases with elevation (but the percentage of endemics rises), so the summits have a limited fauna of mostly native, mostly Saint Lucian endemics. At lower elevations, notably in the deciduous seasonal forests, the number of species is very high. Not only do the lowland forests contain a greater diversity of Saint Lucian endemic species, but also more alien species. The endemics here tend to be more scarce than the more widespread native and invasive species, and it takes more survey effort to locate them. This indicates that the dry forests are greatly underrated in terms of their biodiversity value, and are more threatened by aliens than the wetter forests in the Forest Reserves (M. Ivie, pers. comm.).

Flies (Diptera) were equally poorly known, with only 45 species documented prior to 2009, but nearer 1,200 expected (M. Ivie and R. Winton, unpublished data). The 2009 survey of one family, Dolichopodidae, in 2009 yielded a preliminary total of 60 species in 22 genera (see Annex, Table D), 19 of which appear to be new species and are assumed to be single island endemics, but could be found to be more widespread with more collecting in the region (J. Runyon, unpublished data.). The fact that fourteen of the 60 species are represented by a single individual specimen indicates a large number of species yet to be discovered. Two-thirds of the species were in the wetter forests in the Forest Reserves, and one-third were in drier forests (chiefly Deciduous Seasonal Forest) outside of the reserves.

Among the smaller insect groups (in terms of number of species) are the dragonflies (Odonota), of which 26 species have been recorded from Saint Lucia to date. Most of these known dragonflies have a wide distribution, but three are endemic Lesser Antilles (Annex, Table E).

Forest crustaceans (not shown on Table 3) include at least two species of forest-living crabs identified by Morton (2009a) as bak, or the forest crab, *Guinotia dentata*, and kwab or coastal crab, *Cardisoma guanhumi*. Morton's study revealed a high percentage of Saint Lucians consume forest-living crabs, and collection pressure is evidently high, especially in coastal areas. There is insufficient data to determine whether this harvest is sustainable or not. Thirteen species of freshwater shrimps or 'crayfish' have been identified within the rivers that run through the forests. Their numbers are

⁷ As 16 November 2009. On 27 November, M. Ivie confirmed that the number had reached 817 species. This figure may continue to rise with further analyses of the collected specimens.

reportedly on the decline, putatively due to pollution of the freshwater systems (Government of Saint Lucia (1998), although these crustaceans are also caught in large numbers for food.

Other major invertebrate groups, such as arachnids (spiders, scorpions, ticks and mites), molluscs (snails and slugs) and annelids (earthworms), were not surveyed in 2009 and there appears to be very little written information on these.

2.4. Functions and Values

2.4.1. Conservation and use of wildlife

The main theme of this report is among the major benefits that forests bring. More than 2,100 native species have been found to date (**Table 3**), and this number should more than double when other terrestrial plant taxa (notably the bryophytes and algae), invertebrate taxa and fungi are surveyed. The majority of these organisms are largely or entirely dependent on forest habitats.

As a party or signatory to the Convention on Biological Diversity, the St. George's Declaration on Environmental Sustainability in the OECS, the Protocol Concerning Specially Protected Areas and Wildlife (SPA Protocol), among others, Saint Lucia has a global responsibility to conserve its indigenous plants, animals and their habitats. Maintaining sizeable, representative areas of the different natural forest types is the single most important action that Saint Lucia can take to achieve this. While plantations of exotic trees can, to some extent, serve as forest surrogates and support a number of native animals and plants (more than arable or livestock farming anyway, or most other land uses), the greatest diversity and abundance of indigenous species are to be found in the natural, mature forests.

This native and alien forest biodiversity also makes a direct contribution to local livelihoods, as Saint Lucians collect, buy and use a remarkably diverse array of forest products, especially plants. Morton (2009b) provides a more detailed account of the use of the native gonmyé (*Dacryodes excelsa*), lansan (*Protium attenuatum*), latannyé (*Coccothrinax barbadensis*), and four species of lyenn: awali (*Clusia major* and *C. plukenetii*), ti kannou (*Asplundia rigida*) and ponm dilyenn (*Passiflora laurifolia*); the native animals bak or forest crab (*Guinotia dentata*), kwab or coastal crab (*Cardisoma guanhumii*), léza or iguana (*Iguana cf iguana*), tet chyenn or boa (*Boa constrictor*), and the alien mannikou or opossum (*Didelphis marsupialis*), kochon mawon or feral pig (*Sus scrofa*) and agouti (*Dasyprocta leporina*). The harvesting and current management of latannyé and the now-rare mabi or mauby (*Colubrina elliptica*) were examined by van Eynde (2009).

All of the main animal quarry are protected by the Wildlife Protection Act (1980), which appears to have been successful in significantly reducing hunting (John, 2001). Traditionally, killing of a variety of birds was commonplace, for sport or food, but this practice has largely ceased due to law enforcement and changing attitudes towards wildlife (Adams Toussaint, pers. comm.). Hunters may, however, be able to develop a valuable role in helping to control undesirable alien mammals, notably feral pigs (Dornelly & Jn Baptiste, in prep.). Other less controversial animal products include bat guano, which is collected as a fertilizer for gardens on a small scale.

Wood is, of course, another major forest product, and the focus of attention from other members of the project implementation team. Tennant (2009) provided a quantitative analysis of the current timber reserves on Saint Lucia's forest reserves, while van Eynde (2009) provided further analysis of how

this resource is currently being managed and used. Saint Lucia boasts a number of trees that produce high quality, valuable timber, and was a net exporter of timber until the 1940s. Although some of the most sought-after trees, such as arkokwa, have become extremely scarce, many useful native timber species remain in the forests, including gonmyé or gommier, lowye mabwe (*Ocotea leucoxydon*), white cedar (*Tabebuia pallida*), bwa blan (Simarouba amara), bwa damand (*Hieronyma caribaea*), red cedar (*Cedrela odorata*), bwa kweyol (*Myrcia deflexa*) bwapen mawon (*Talauma dodecapetata*) and la glu (*Sapium caribaeum*) (van Eynde, 2009). Despite the presence of these indigenous trees, a number of exotic alternatives have been introduced, chiefly into the Forest Reserves, in an effort to boost timber production, reforest degraded areas and safeguard watersheds. The exotic species include mahogany (*Swietenia macrophylla*), blue mahoe (*Hibiscus elatus*) and Caribbean pine (*Pinus caribaea*), with lesser numbers of gmelina (*Gmelina arborea*), teak (*Tectona grandis*), eucalyptus (*Eucalyptus resinifera*, *E. robusta*, *E. kirtoniana*) and leucaena (*Leucaena leucocephala*). The plantations are scattered, but cover a relatively small total area of 505 hectares (van Eynde, 2009). Replacing imported timber with local supplies would be an important strategy for reducing the country's 'carbon footprint', but the use of exotic timber species should be discouraged in areas of high conservation value (section 3).

Although demand has generally decrease in recent decades, charcoal continues to be an important source of domestic fuel and income in Saint Lucia: a charcoal maker can earn as much as EC\$1,500 from one "good burn". Charcoal is produced in covered pits, which can be seen scattered around the country, often utilizing wood from secondary forests outside of the Forest Reserve. Saint Lucia used to export charcoal, and this industry was blamed for extensive deforestation (Towle & Towle, 1991). Since the early 1980s, a number of projects have therefore endeavoured to ensure the nation's charcoal supply is more sustainable, including the introduction of leucaena (*Leucaena leucocephala*) plantations (although yields fell short of expectations) and a community project to manage the 40-hectares of mangroves at Mankòtè, near Vieux Fort (Smith & Berkes, 1993). As fossil fuel alternatives become increasingly rare and expensive, domestic and overseas demand for renewable fuels is likely to skyrocket in the coming decades. While a resurgence in charcoal exports could be viewed as a threat, conserving Saint Lucia's wood supply is undoubtedly a wise investment to buffer the country against future global energy crises.

2.4.2. Watershed and soil protection

Intact forested land captures rainwater far more efficiently than any other form of land cover, and, like a giant sponge, releases this water steadily, thereby serving to buffer rivers and users downstream from seasonal floods and droughts. This vital regulatory function has long been recognised in Saint Lucia, with the need to protect critical catchment areas being the driving force behind the designation of many Forest Reserves. Indeed, the country's first was Castries Waterworks Reserve, established in 1916 to safeguard the city's water supply.

To clear or degrade any of the existing forest reserve areas would be exceedingly risky. All of the island's major rivers have their headwaters in Forest Reserves, in the island's mountainous interior, where rainfall typically exceeds 3,000mm. Most of the >12 million m³ of water consumed in Saint Lucia is derived from the forested watersheds of seven major rivers: Canelles, Cul de Sac, Fond D'Or, Marquis, Troumassee, Vieux Fort and Roseau, the largest at 49.1km². (Towle & Towle, 1991; Kundall, 2008).

It is, however, simplistic to regard the Forest Reserves as the island’s water catchments and all other areas as being irrelevant. The watersheds of all rivers, large or small, also encompass the island’s foothills and other land areas downstream - areas with lower rainfall than the mountains, but are cumulatively larger in area. The remaining forests outside the reserve thus also make a major contribution to maintaining Saint Lucia’s water supply, especially those nearest to ravines and their tributaries.

Forests also serve to anchor soil, especially on land that is sloping, prone to erosion by rivers or on inherently loose soils. CIDA (1988) identified 3,462 hectares as being at “extreme and high erosion risk”, 578 hectares of which were outside of the existing Forest Reserves. With a very large amount of Saint Lucia’s private lands already cleared of their forests for agriculture and settlements (**Figure 1**), soil erosion is a persistent problem in almost all watersheds, leading to landslides, irregular water flow, and increased sedimentation of rivers and coastal reefs. Policies to maintain existing forests and promote regrowth are crucial, especially near watercourse and on steep slopes.

2.4.3. Carbon storage

The forests of Saint Lucia currently represent more than three million tonnes of stored carbon (equivalent to 11,570,000 tonnes CO₂). **Table 4** shows their calculated carbon storage, based on average values published for equivalent types of tropical forest. The potential carbon could be significantly higher, but much of the forest is disturbed or secondary regrowth, which holds less carbon than mature, intact forests.

Table 4 Preliminary estimate of carbon in Saint Lucia’s forests (above and below ground biomass carbon, plus soil).

Areas of forest cover are conservative visual estimates and should not be cited. These calculations should be redone when more accurate measures of forest cover become available.

<i>Forest category (major classes)</i>	<i>Estimated⁸ tonnes of Carbon/ha</i>	<i>Area (hectares)</i>		<i>Carbon (tonnes)</i>		<i>Total Carbon</i>
		<i>Forest Reserve</i>	<i>Outside Reserve</i>	<i>Forest Reserve</i>	<i>Outside Reserve</i>	
Littoral Evergreen Forest and Shrubland	70	0	1,000	0	70,000	70,000
Mangrove	>300	0	200	0	>60,000	>60,000
Freshwater Swamp Forest	211	0	100	0	21,100	21,100
Deciduous Seasonal Forest	80 (disturbed) to 143 (intact)	350	7,000	35,000	700,000	735,000
Semi-evergreen Seasonal Forest, Lowland Montane Rainforest	200 (disturbed) to 259 (intact)	8,200	2,000	1,804,000	420,000	2,224,000
Montane Rainforest, Cloud Montane Rainforest	140 (disturbed) to 190 (intact)	200	50	34,000	8,500	42,500
		8,750	10,350	1,873,000	1,279,600	3,152,600

⁸ Mean carbon content figures are “conservative” calculations for the equivalent forest types in Guyana (Cedergren, 2009) and other forests in tropical South America (Fauna & Flora International’s Arcadia Climate Assessment Project database, based on Eggleston *et al.*, 2006).

In common with many other islands in the Lesser Antilles (Helmer *et al.*, 2008), Saint Lucia's forest cover appears to have increased significantly since Beard mapped the island's vegetation in the 1940s (Beard, 1949). This trend could continue due to declines in traditional arable plantations, enabling Saint Lucia to sequester substantial carbon as its forest regrowth continues. Many of the Deciduous and Semi-evergreen Seasonal Forests are still in their first decades of regrowth, and will assimilate carbon at a faster rate than the old growth forests. Although the land area is small on a global scale, there may be scope for Saint Lucia to secure funding through various carbon schemes for its contribution in the fight against climate change (see van Eynde, 2009, for options).

2.4.4. Tourism

Saint Lucia's appeal to tourists owes much to its natural beauty, with the rainforests in particular adding to its 'tropical paradise' label. A large number visit the forest reserves or hike up Petit Piton every year, or experience the forests through driving, birding tours, aerial flights, and horse-back riding. Tourists are becoming increasingly knowledgeable and concerned about tropical forests and wildlife. There is more scope to promote the forests and increase their accessibility to visitors in return for more revenue for the Forestry Department or private enterprises. Nature-based tourism is still one of the fastest growing sectors of tourism (Balmford, *et al.* 2009) and Saint Lucia is well placed to make use of this opportunity, with birding enthusiasts especially drawn to the island's large number of endemic species.

2.4.5. Scenic and other values

Forests are important for the well-being of residents too: a point that may be fully appreciated only when exposed to countries that have lost most of their forest cover, such as Barbados and Antigua. Saint Lucians who visit such deforested islands often complain of the lack of shade and poor-tasting, desalinated water. The contribution of forests to the health and well-being of people may go much further than this, however. Experimental research has demonstrated a significant reduction in blood pressure, diabetes and cancer by walking in old-growth forests (compared to city walking), and people who view forest scenery for 20 minutes have 13% lower blood concentration of the stress hormone cortisol than people viewing urban settings (Park *et al.*, 2007). In 2008, Japanese scientists demonstrated that people living in areas with a higher percentage of forest cover had lower mortality rates for cancers of the lung, breast, uterus, prostate, kidney, and colon, compared with people living in areas with lighter forest cover, even after factoring in socioeconomic status. For a fuller review of the relationships between forests and human health, see Colfer *et al.* (2006).

3. Priority Forest Biodiversity Areas

3.1. Introduction

Saint Lucia's wild animal and plant species are very unevenly distributed, even within the forested areas. After consultation with many of the biologists that participated in field surveys in 2009, 25 areas were identified and rated as priorities using the Forest Stewardship Council's first three criteria for identifying High Conservation Value (HCV) forests:-

HCV 1: Globally, regionally or nationally significant concentrations of biodiversity values (this includes: protected areas; rare or threatened species; endemic species; and seasonal concentrations of species)

HCV 2: Globally, regionally or nationally significant large landscape-level forests

HCV 3: Forest areas that are in or contain rare, threatened or endangered ecosystems

Together, the 25 areas identified contain virtually all of Saint Lucia's known natural vegetation formations, endemic terrestrial species and globally threatened terrestrial species.

The recommended management activities in zones ranked as Very High or High in importance for biodiversity should be primarily conservation-oriented. While this does not necessarily exclude other activities (e.g. selective logging, harvesting non-timber forest products, tourism), such uses should be strictly controlled to avoid spoiling the outstanding biodiversity values of these areas.

In zones ranked as being of Medium or Lower importance, there will be greater scope for other activities, including plantations and even agriculture. The needs of protected and threatened species should be respected, however (e.g. safeguarding parrot nesting trees and large bat roosts in timber extraction areas).

In all zones, it is crucial to avoid introducing of alien invasive species, because these could spread throughout the country. Other crucial functions of the forests - most notably watershed protection - should also be borne in mind, and the Precautionary Principle applied wherever there is uncertainty. Achieving the recommended management objectives below, both inside and outside of the Forest Reserves, will depend on the Forestry Department engaging the cooperation and support of private owners, developers, wildlife consumers, the National Trust, and other forest stakeholders.

3.2. Priority areas within the Forest Reserve

See **Figure 2** for location of zones.

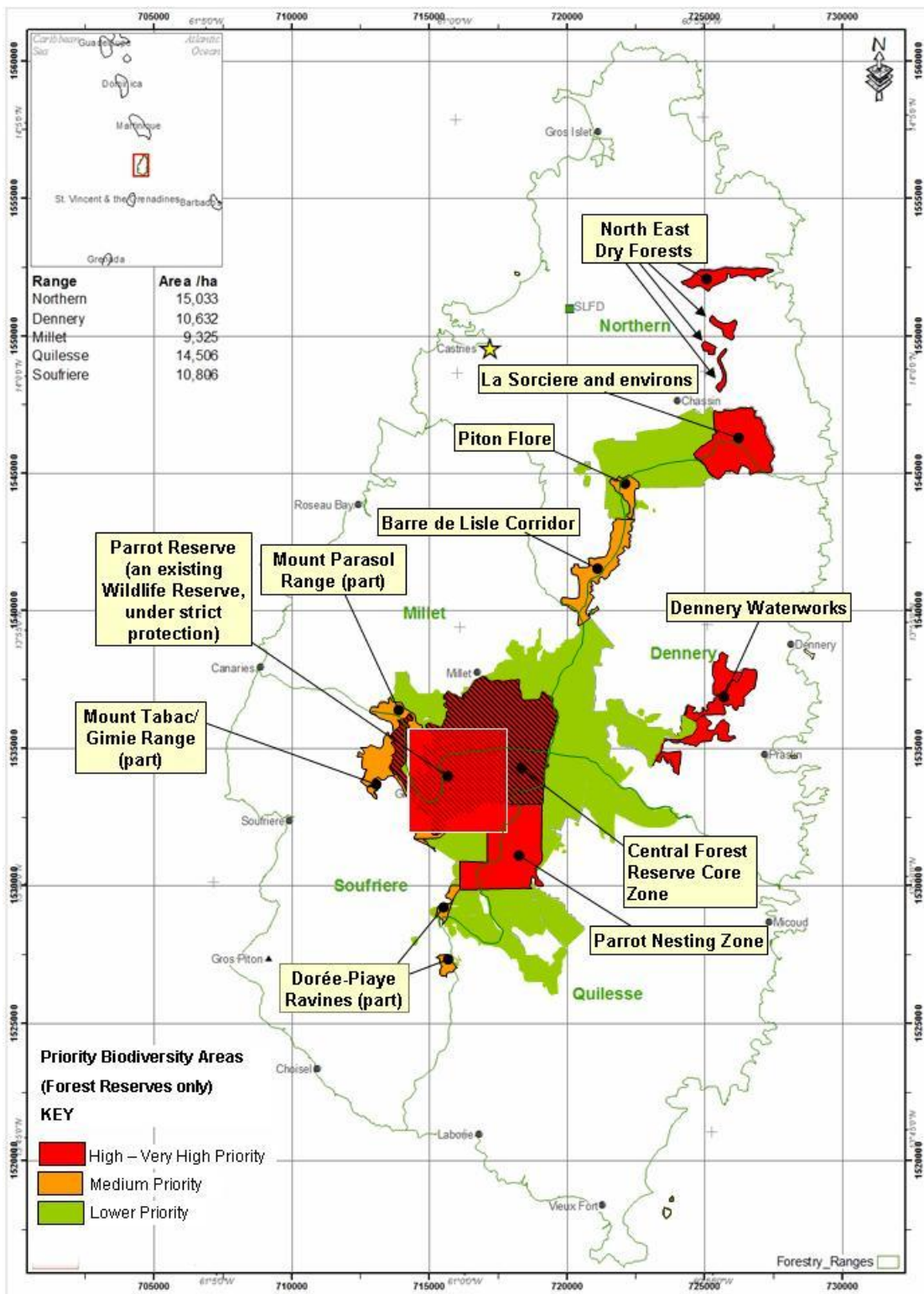
1. North East Dry Forest Reserves

Conservation Importance - Very High

Rationale - Almost the only examples of deciduous seasonal forest designated as Forest Reserves, these four reserves capture a very significant variety of species and habitats that do not occur in the rest of the reserve system. Rare trees, including arkokwa (*Zanthoxylum flavum*) akoumat (*Sideroxylon foetidissimum*) and *Exothea paniculata* are found in the forest reserve strips in the Maquis-Bouguis area. A small number of Saint Lucia iguana (*Iguana cf iguana*) inhabit these areas, but require several

Figure 2 Priority areas for biodiversity conservation within the Forest Reserve

See text for descriptions.



adjoining areas, outside of the Reserves, for nesting. These reserves form part of the Government Forest Reserve Important Bird Area (#LC002), and are directly adjacent to the North East Coast IBA (#LC001) (see North East Coast Dry Forests below). While most of these forest areas are secondary and degraded, they could recover quickly if given the chance.

Management needs - Enable the recovery and long term conservation of these sites in the context of the wider dry forest landscape. Protect all indigenous wild animals and plants. No hunting (with possible exception of pig hunting as part of a control programme) and any collection of non-timber forest products should be strictly regulated within sustainable limits. All exotic tree plantations and farms (squatters) should be removed to allow native seasonal deciduous forest to replace them. Avoid logging, but localized clearings may help create the low forests favoured by the rare Saint Lucia nightjar (*Caprimulgus rufus otiosus*). Planting of rare trees that naturally occur in this habitat, e.g., arkokwa, akoumat, and gayak (*Guaiacum officinale*), would benefit these forests and the species concerned. Acquire land or form agreements with local private landowners to enlarge the effective area under protection. A top priority is to maintain contiguous forest cover to the iguana's coastal nesting areas. Research and monitor these forests and selected wildlife.

2. Parrot Reserve

Conservation Importance - Very High

Rationale - A Wildlife Reserve established for the conservation of the Saint Lucia amazon (*Amazona versicolor*), covering 3,128 hectares. The western part of this reserve includes Mount Gimie (Saint Lucia's highest mountain) and therefore most of Saint Lucia's elfin shrublands, cloud montane forests and their associated flora. Important populations of endemic and threatened animals and plants are present, including a wide variety of rainforest birds, Saint Lucia boa, Saint Lucia fer-de-lance, and Saint Lucia pygmy gecko. The wildlife reserve forms part of the Government Forest Reserve Important Bird Area (#LC002).

Management needs - Maintain the high conservation value of this area, especially for parrots. Strict protection of all indigenous wild animals and plants within this area, as mandated under the Wildlife Protection Act (this applies to fer-de-lance). No logging or hunting, with the possible exception of pig hunting as part of a feral pig control programme. Collection of non-timber forest products (e.g. lyenn) should be strictly limited to minimise disturbance to nesting parrots. Demarcate boundary in the more accessible parts. Research and monitor parrots and other selected wildlife.

3. Parrot Nesting Zone

Conservation Importance - High

Rationale - Additional to the Parrot Reserve, this is the main area where the Saint Lucia amazon (*Amazona versicolor*) lives and breeds, and is also significant for other endemic rainforest birds, reptiles and plants. It forms part of the Government Forest Reserve Important Bird Area (#LC002).

Management needs - Maintain the high conservation value of this area, especially for parrots. All indigenous wild animals and plants should be protected. Gradually phase out the exotic tree plantations, taking care to leave trees identified as being in active use by feeding or nesting parrots and roosting bats. Allow native vegetation to succeed them. Feral pig control. Logging, hunting and the collection of non-timber forest products (NTFP), such as lyenn, should be strictly limited to minimise disturbance to nesting parrots. Low-impact nature-based tourism could be developed here, but the locations of parrot nests should not be revealed. Research and monitor parrots and other selected wildlife.

4. Central Forest Reserve Core Zone

Conservation Importance - High

Rationale - The most remote parts of the Central Forest Reserve, difficult to access and therefore an excellent natural sanctuary for lowland montane rainforest wildlife. Additional and overlapping with the Parrot Reserve and Parrot Nesting Zone above, this zone forms part of the Government Forest Reserve Important Bird Area (#LC002). This remote area has a high density of fer-de-lance and human activity in this area should be minimal to avoid snake-human conflict. This area was also identified by CIDA as a protection zone (see CIDA report for rationale).

Management needs - Minimise human activity in this area, both for the benefit of wildlife and to ensure human safety. All indigenous wild animals and plants should be strictly protected. Feral pig control is required, to conserve this forest and prevent this being a breeding area from which pigs will spread to other areas. No, or minimal, logging, NTFP collection or hunting. Limited research and monitoring of wildlife. Most of this area should be off limits to tourists for safety reasons (the main hiking trail is east of the boundary of this zone).

5. La Sorciere and Environs

Conservation Importance - High

Rationale - An area is noted for the quality of its flora, comprised mainly of lower montane rainforest, with some rare deciduous and semi-evergreen seasonal forests. It forms part of the Government Forest Reserve Important Bird Area (#LC002), with historical reports of the critically endangered Semper's warbler (*Leucopoeza semperi*, last recorded here in 1972) and vulnerable forest thrush (*Cichlherminia lherminieri*, last recorded here in 2007). It also adjoins the North East Coast IBA (#LC001). This zone borders crucial deciduous seasonal forests for Saint Lucia iguanas, Saint Lucia nightjars (*Caprimulgus rufus otiosus*), white-breasted thrashers (*Ramphocinctus brachyurus*) and Saint Lucia wrens (*Troglodytes aedon martinicensis*) and is therefore important as a buffer area for any future developments in the North East Dry Forests (see below).

Management needs - Preserve good forests and enable the recovery of degraded areas in the context of the wider forest landscape. Protect indigenous wild animals and plants. Remove exotic tree plantations, starting with Caribbean pines (*Pinus caribbaea*), which are not thriving and pose a fire hazard, and remove farms (squatters), to allow native vegetation to replace them. Limited scope for logging, but small clearings may be beneficial in creating improved nightjar habitat. NTFP collection (lyenn, lansan, etc) should be possible if conducted sustainably. Develop co-management agreements with neighbouring landowners or developers to maintain forest on their properties in order to form a contiguous band along the full wet-mesic-dry gradient down to the coasts (including the key ravines of Louvet, Caille des, and Grand Anse). Research and monitor forest cover and wildlife.

6. Dennery Waterworks

Conservation Importance - High

Rationale - A very important link between the coastal deciduous seasonal forests and the lower montane rainforest, containing some unique deciduous seasonal and semi-evergreen seasonal forest flora (forest types that are generally under-represented in the Forest Reserve system). This reserve forms part of the Government Forest Reserve Important Bird Area (#LC002) and adjoins the Mandelé Dry Forest IBA (#LC004). It supports a small, but important, number of white-breasted thrashers (*Ramphocinctus brachyurus*) and foraging flocks of Saint Lucia amazons (*Amazona versicolor*).

Management needs - Preserve good forests and enable the recovery of degraded areas in the context of the wider forest landscape. Ensure high level protection of all indigenous wild animals and plants.

Logging should be limited, but NTFP collection (e.g. lyenn) would be permissible if conducted sustainably. Endeavour to acquire land or form agreements with local landowners to bring adjoining deciduous seasonal forest areas under protection. Research and monitor the forest cover and wildlife, in particular the white-breasted thrashers.

7. Barre de Lisle Corridor

Conservation Importance - Medium

Rationale - An important link between the northern and southern parts of the Forest Reserve network. As a corridor, this zone can provide contiguous lowland montane rainforest to enable the movement of forest species between the northern and southern reserves (many rainforest species, including many understory birds, are unwilling or unable to cross clearings). This zone also contains important populations of many rainforest species, including probably the highest concentration of lansan trees (*Protium attenuatum*). It also lies at the centre of the Government Forest Reserve Important Bird Area (#LC002), noted for its large number of threatened and endemic rainforest birds.

Management needs - Maintain a continuous natural forest canopy between the northern and southern parts of the Forest Reserve network. Gradually phase out exotic tree plantations, including *Eucalyptus*, and remove farms (squatters) to allow native rainforest vegetation to replace them. Any logging (apart from removal of exotics) should be highly selective and generally best avoided due to steep slopes and high rainfall. Low-impact tourism (e.g. hiking trails) and sustainable NTFP collection (e.g. lansan resin) would be permissible.

8. Piton Flore

Conservation Importance - Medium

Rationale - The summit of Piton Flore has a unique dwarf form of lower montane rainforest species, while the lower slopes are more typical lower montane rainforest. This area forms part of the Government Forest Reserve Important Bird Area (#LC002) and contains important habitat for the Saint Lucia amazon.

Management needs - Maintain this area under natural forest cover for the purposes of biodiversity conservation (and watershed protection). Avoid any logging on the flanks and summit of this piton, and especially ensure large, old trees are preserved for nesting parrots and roosting bats. Low-impact tourism (hiking) and sustainable NTFP collection should be permissible.

9. Mount Tabac/ Gimie Range

Conservation Importance - Medium

Rationale - Range identified for its botanical importance. The summits and joining ridges have a mosaic of cloud montane rainforest and elfin shrublands, containing about 15 plant species not found anywhere else in Saint Lucia. Many of these are Saint Lucian or Lesser Antillean endemics.

Management needs - Maintain this area under natural forest cover and ensure it remains contiguous with the Mount Tabac forested landscape outside of the Forest Reserve. Avoid any logging on the flanks and summits of these mountains and ridges. Especially ensure large, old trees are preserved for nesting parrots and bat roosts. Low-impact tourism (hiking) and sustainable NTFP collection should be permissible.

10. Dorée-Piaye Ravines

Conservation Importance – Lower/Medium

Rationale – Small, but important segments of ravines (the remainder of which lie outside of the Forest Reserve) with well-developed forests and an exceptionally high diversity of plants. Forms part of the Government Forest Reserve Important Bird Area (#LC002)

Management needs - Maintain under natural forest cover, contiguous with the rest of the Dorée and Piaye ravines that continue downstream outside of the Forest Reserve (see below). Avoid logging (these are very steep ravines). More research should be conducted into the flora and especially fauna of these ravines. Local people could be enabled to develop low-impact tourist hiking trails along the ravines, especially if the rest of the ravines can be maintained downstream.

11. Part of Mount Parasol Range Conservation Importance – Lower/Medium

Rationale - Range identified for its botanical importance, but also forms part of the Government Forest Reserve Important Bird Area (#LC002).

Management needs - Maintain under as much natural forest cover as possible, both to conserve its native biodiversity and to maintain its watershed functions.

12. Other Forest Reserve Conservation Importance – Lower

Rationale - All other parts of the Forest Reserve not included in the zones above. Predominantly lowland montane rainforest, these form the rest of the Government Forest Reserve Important Bird Area (#LC002) and contain a rich diversity of animals and plants, with some excellent forest habitats. No species are known to be in this area, however, which do not also occupy at least one of the priority zones above.

Management needs - A multiple use area, but incorporating sound conservation principles to conserve biodiversity and maintain its critical watershed functions. Logging should be low-impact and highly selective, following best practices to avoid soil erosion and landslides. Only exotic and non-endangered native trees should be harvested. Large, old trees can be preserved for nesting parrots and bat roosts. As far as economically viable, tree plantations in this zone should use mixed native species in preference to exotic ones. Exotic *Pinus* and *Eucalyptus* should be phased out as a priority, because they represent a fire hazard, degrade the topsoil and offer least benefits to native wildlife. No new exotic species should be introduced into the Forest Reserve for timber, ornamental or other purposes in case they become invasive. Illegal farms (squatters) should be removed from all forest reserves and replaced with forest or plantations (ideally using native species). Local people can be enabled to benefit from sustainable use of forest products, both animals and plants. Research and monitor wildlife, especially tree species and forest areas targeted by logging.

3.3. Priority areas outside the Forest Reserve

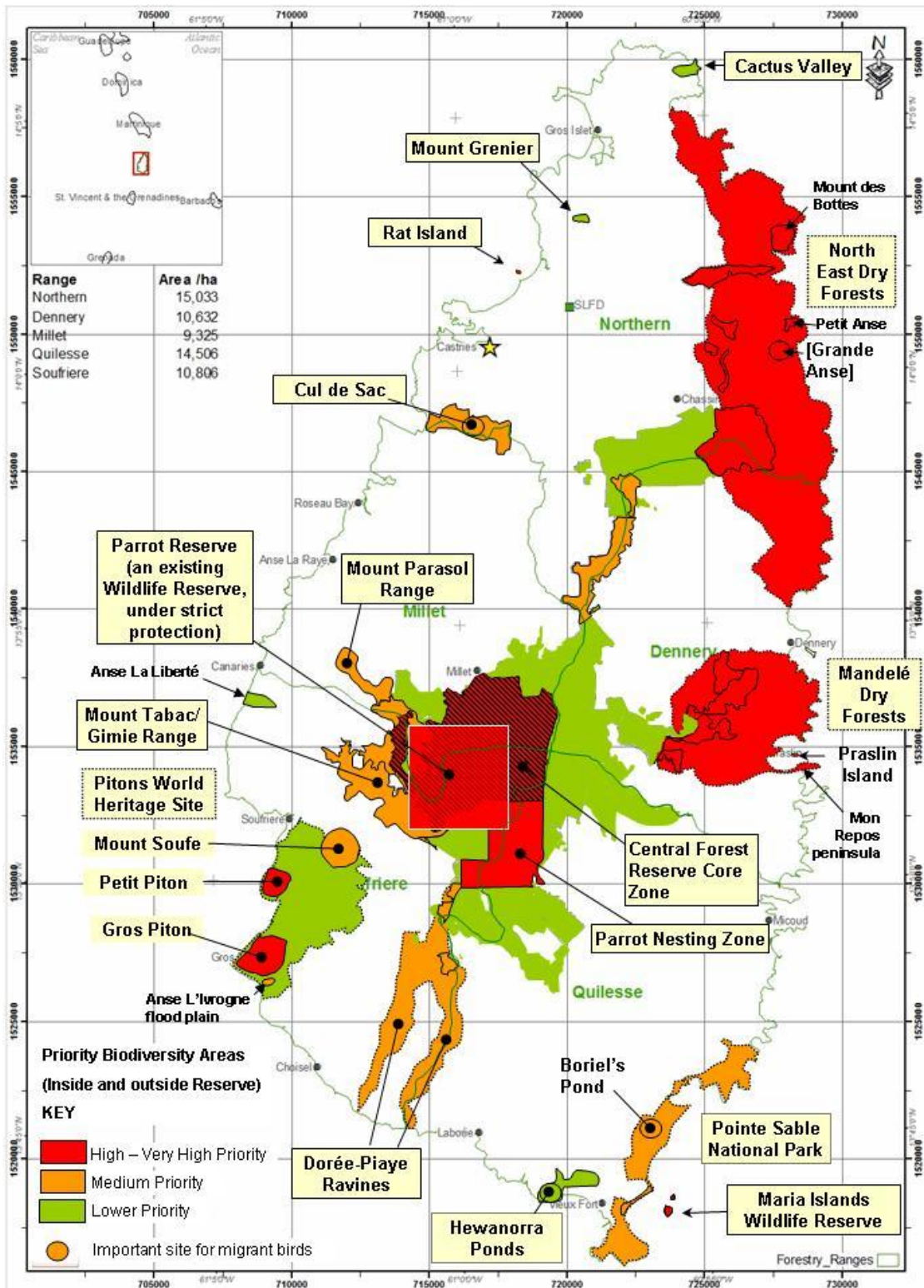
See **Figure 3** for location of zones.

13. North East Dry Forests Conservation Importance – High/ Very High

Rationale - Outstanding concentration of rare and endemic plants, birds and reptiles in a rolling forested landscape dominated by deciduous seasonal forest and other coastal vegetation classes, with some arable and pastoral land. This ecosystem, with its many unique species, is not adequately represented in the existing Forest Reserve or other protected areas. Covering approximately 5,000 hectares, this zone is considered large enough to conserve viable populations of many deciduous

Figure 3 Priority areas for biodiversity conservation outside the Forest Reserve

See text for details.



seasonal forest species. While much of the deciduous seasonal forests are secondary and degraded, they will recover quickly if given the opportunity, and would enable populations of rare species to increase. This zone encompasses the entire North-east Coast Important Bird Area (#LC001), immediately adjacent to the Government Forest Reserve IBA (#LC002). It contains an estimated 7.5% of Saint Lucia's endangered white-breasted thrashers (*Ramphocinctus brachyurus*), the endangered Saint Lucia black finch (*Melospiza richardsoni*), most of the world population of Saint Lucia nightjars (*Caprimulgus rufus otiosus*) and other endemic birds. Rare native Saint Lucia iguanas (*Iguana cf iguana*) occupy in this zone, which is also noteworthy for the presence of Saint Lucia boas (*Boa constrictor orophias*) and Saint Lucie fer-de-lance (*Bothrops caribbaeus*). Latanné palms (*Coccothrinax barbadensis*) are naturally present, but overharvested. Key sites within this zone are:-

North East Dry Forest Reserves: See above.

Grande Anse coast (Very High): Nesting area for Saint Lucia iguanas and three species of sea turtles. Significant population of Saint Lucia pygmy gecko (*Sphaerodactylus microlepis microlepis*) and Saint Lucia worm lizards (*Gymnophthalmus pleii luetkeni*). The northern slopes of Grande Anse have good deciduous seasonal forest with the rare understory tree *Morisonia americana* and the only population of *Eugenia trinitatis*, a rare Lesser Antillean endemic. Very rare vines are found along the river including *Tanaecium crucigerum*. Important site for migratory birds. A pond at Grande Anse forms Saint Lucia's only known breeding site for masked duck (*Nomonyx dominicus*).

Petit Anse: Excellent mature deciduous seasonal forest, and an important population of white-breasted thrashers.

Louvet: The other important area for iguanas and sea turtles. The globally threatened gayak (*Guaiacum officinale*) has been found on a dry hill at Louvet. Pockets of *Syagra amara*, a Lesser Antillean endemic palm, occupy hills close to the sea between Desbarras and Louvet.

Mount de Bottes: Located north of Marquis, with good quality deciduous seasonal forest. Two extremely rare indigenous species are gayak (*Guaiacum officinale*) and mabi (*Colubrina elliptica*).

Management needs - A multiple use area that should seek to conserve and enhance the nationally and globally important role of these forests for conserving Saint Lucia's dry forest biodiversity. Enable the recovery/ restoration of native deciduous seasonal and coastal forest vegetation. Endeavour to acquire land or form conservation agreements with landowners and developers to maintain as much natural forest cover as possible. Forest cover should especially be maintained along ravines, along beaches (in the *Coccoloba* fringe where iguanas and hawksbill turtles nest), and along migration corridors for iguanas moving to and from their traditional nesting areas. Exotic tree plantations and squatters on crown land should be phased out. Mixed plantations of native timber trees that belong in this habitat (e.g. arkokwa) could be a commercially viable alternative and would be more beneficial for wildlife. Logging and other forms of natural resource use should be kept within sustainable limits. Hunting should be prohibited, with possible exception of hunting of feral pigs (without using dogs). Special activities should be conducted (continued) to support the recovery of the Saint Lucia iguana, Saint Lucia nightjar, nesting sea turtles, arkowa, and other rare species: e.g. conduct localised control of opossums, mongooses and other alien invasive predators, enforce rules against sand-mining, plant rare native trees, and create forest clearings suitable for nesting iguanas and Saint Lucia nightjars. Explore potential for low-impact, nature-based tourism. Any Crown Land in this area (Mount de Bottes?)

should be designated as Forest Reserve or Wildlife Reserve. (See above for additional recommendations for the existing North East Dry Forest Reserves, which form part of this zone).

14. Pointe-Sable National Park (incl. Conservation Importance – Medium/ Very High Maria Islands Wildlife Reserve)

Rationale - The Pointe Sable National Park contains a mosaic of rare and important coastal forest habitats, including mangroves. It is an Important Bird Area (#LC005) because more than 20,000 seabirds nest here, including sooty terns, bridled terns, roseate terns, royal terns, red-billed tropic birds, and brown noddies.

The Maria Islands (Very High): a Wildlife Reserve, already under strict protection. Because the islands are free of alien mammals, they are critically important for endemic reptiles, including the world's last remaining population of Saint Lucia racer (*Liophis ornatus*), the largest populations of Saint Lucia whiptail (*Cnemidophorus vanzoi*), Saint Lucia thread snake (*Leptotyphlops bruilei*) and Antilles leaf-toed gecko (*Hemidactylus palaichthus*), and probably the only populations of the Maria Islands pygmy gecko (*Sphaerodactylus microlepis thomasi*) and Maria Islands worm lizard (*Gymnophthalmus pleii nesydrion*). A very important seabird nesting area: the nesting birds include a regionally important colony of red-billed tropicbirds (*Phaethon aethereus*).

Moule a Chique and Anse de Sables beach (Medium): rare coastal flora.

Savannes Bay and Mankòté mangroves (Medium): Saint Lucia's only two Ramsar sites. These are important for waterbirds and neotropical migrants. Mangroves are also an important source of fuel for local communities.

Boriel's Pond (Medium): important for migratory birds.

Management needs - The mainland part of this park is a multiple use area and many parts are already degraded. What natural vegetation remains should be kept intact. The Maria Islands are exceptionally pristine and harbour globally important biodiversity, and must be kept as close to their natural state as possible.

Maria Islands: High level protection of all indigenous wild animals and plants. Prevent the invasion of any kind of alien species, and check the island regularly for any alien plants or animals (including maintaining and regularly monitoring the existing bait stations). Alien species should be promptly removed. Restrict visitor numbers and manage access through permitting only limited trained tour guides to take groups. Uphold the annual closed season when most birds are nesting. Study the status and ecology of the poorly-known endemic reptiles, especially the Saint Lucia racer, whiptail lizard, Maria Islands pygmy gecko, Maria Islands worm lizard, and Saint Lucia worm snake. Monitor bird colonies every year. Continue to implement the whiptail lizard action plan, to conserve the two Maria Islands colonies as part of the wider metapopulation.

Mainland: Tackle pressure from tourism developments, mining and quarrying, and unauthorized harvesting of mangrove for charcoal.

15. Mandelé Dry Forest

Conservation Importance – High

Rationale - Covering approximately 2,000 hectares, including parts of Dennery Waterworks (above). This area contains some of Saint Lucia's most intact and biodiverse deciduous seasonal forests. Most

of this area is the Mandelé Dry Forest Important Bird Area (#LC004), noted for containing over 90% of the Saint Lucia white-breasted thrasher (*Ramphocinclus brachyurus*). It also includes an important population of the endangered Saint Lucia black finch (*Melospiza richardsoni*), supports seasonal foraging flocks of Saint Lucia amazon (*Amazona versicolor*), and the endemic subspecies of Lesser Antillean flycatcher (*Myiarchus oberi santaeluciae*). Royal terns (*Sterna maxima*) breed on the coast. Latanné palms are present, but over-harvested, in this area. Sites within this area include:

Dennery Waterworks: (Forest Reserve) See above.

Praslin Island: Contains an important reintroduced population of whiptail lizards (*Cnemidophorus vanzoi*).

Bordelais Forest: Exceptionally diverse flora, including a mixture of deciduous seasonal forest species and evergreen seasonal forest plants more usually associated with wetter areas. (Conspicuous differences in species composition between this area and the North East Dry Forests, above, may be indicative of different soil types).

Mon Repos Peninsula: Very mature deciduous seasonal forest, and excellent rock/cliff pavement and cactus scrub.

Management needs - Conserve and restore this area's globally important dry forest biodiversity. Promote the recovery and restoration of native deciduous seasonal and coastal forest vegetation. This should include re-establishing vegetation on the southern parts of this area that were recently cleared (whether or not this development continues at a later date) because these barren areas are almost useless for wildlife and exacerbate soil erosion and sedimentation of the adjoining marine ecosystems. Forest regrowth will be extremely slow and may need to be assisted: the clearings are large and much of the top soil has already washed away to expose the rock beneath. It is important to acquire land or form agreements with landowners and developers to maintain and restore as much natural forest cover as possible: white-breasted thrashers are poor at crossing clearings or roads, and require forests with a dense canopy and deep leaf litter. Mixed plantations of native timber trees that belong in this habitat (e.g. arkokwa) would be a more wildlife-friendly alternative to exotic plantations or agriculture, but logging and other forms of natural resource use should be kept within sustainable limits. Special activities should be conducted (continued) to support the recovery of the white-breasted thrasher and other rare species. These should include conducting localised control of opossums, mongooses and other alien invasive predators. (See above for additional recommendations for the Dennery Waterworks forest reserve, which also forms part of this zone). Research and monitor wildlife, especially the white-breasted thrasher and its threats (mainland) and the whiptail lizard colony (Praslin Island).

Specifically on Praslin Island, prevent the invasion of any kind of alien species, and check the island regularly for any alien plants or animals (including maintaining and regularly monitoring the existing bait stations). Any alien species should be promptly removed. Visitor numbers should be restricted, and fires and overnight camping prohibited. This should be achieved through a formal co-management agreement with the owner (Louvet Estate Paradis).

Special precautions should be taken to avoid forest fires in this area (e.g. warning signs on highway, prohibit use of campfires on Praslin island). Fires could have a devastating impact on the white-breasted thrashers (mainland) and whiptail lizards (Praslin island).

16. Pitons World Heritage Site

Conservation Importance – Medium/ Very High

Rationale - Aside from its aesthetic appeal and iconic status, the pitons landscape is of outstanding importance for biodiversity, especially plants and birds. A World Heritage Site, this area is also recognised as the Pitons Important Bird Area (#LC003) and includes an important population of the endangered Saint Lucia black finch (*Melospiza richardsoni*), the near threatened Saint Lucia oriole (*Icterus laudabilis*), the endemic subspecies of Lesser Antillean flycatcher (*Myiarchus oberi santaeluciae*) and Saint Lucia wren (*Troglodytes aedon martinicensis*). Royal terns (*Sterna maxima*) breed on the coast. A group of very rare shrubs are found only on the Pitons, including *Salvia lamiifolia*, *Justicia periplocifolia*, *Dicliptera martinicensis* and *Koanophyllon celtidifolia*. Some of the many other rare and unusual plants are indicated below. Maintenance of this forest ecosystem is also important for maintaining the fringing coral reefs (deforestation would increase sedimentation of reefs and reduce fisheries productivity). Key sites are:

Petit Piton (Very High): almost entirely deciduous seasonal forest. Contains many very rare species, including the endemics *Gonolobus iyolensis* and *Bernardia laurentii* (the only known population is on the summit), and world's last remaining population of *Juniperus barbadensis* var. *barbadensis*. *Myrcianthes fragrans*, and *Dodonea elliptica* are also known only from Petit Piton in Saint Lucia. Some endemic birds occur here.

Gros Piton (Very High): covered mainly by deciduous seasonal forest, with the middle and upper slopes more or less intact. The flattish area at the top is an unusual form of semi-evergreen seasonal forest with a few lower montane rainforest species mixed in. Examples of species found only on Gros Piton are *Ilex nitida*, *Sloanea dentata*, *Passiflora cuneata*, *Psidium sartorianum*, *Lantana radula*, *Mikania cordifolia*, and *Galactia rubra*, but there are many others. Its overall floral biodiversity is very significant, with many very rare species. At least 27 bird species have been recorded on Gros Piton, including five endemics.

Mount Souf (Medium): Rare example of sulfarole vegetation by the hot springs, while the other (northern) side has the rare semi-evergreen seasonal forest.

Anse L'Ivrogne flood plain (Medium): Close to the sea, this site contains *Annona montana*, a Lesser Antillean endemic plant not found elsewhere in Saint Lucia.

Management needs - A multiple use area that should seek to conserve and enhance its nationally and globally important flora and birds. Forest uses should be compatible with the area's international status as a World Heritage Site. Preserve native vegetation across most of this area, especially the key sites indicated on the left. Logging and other forms of natural resource extraction should be kept within sustainable limits. Low-impact tourism can continue. If trampling of rare flora and erosion of trails increases, this may be mitigated by controlling visitor numbers and with correct trail infrastructure. Seek and respond to any reports of alien green iguanas (*Iguana iguana*) in this area. All alien green iguanas should be culled immediately.

Petit Piton and Gros Piton, eradicate any alien invasive plants and prohibit (and enforce) the planting of exotic ornamental species. Monitor the rare wild plants on the pitons, bearing in mind that ranges may shift due to climate change; monitor their threats and pressures; and conduct faunal surveys of the pitons.

Mount Souf: conserve all remaining areas of natural vegetation on the slopes on the far side of the springs and remove the (non-native) coconut palms. The (non-native) Caribbean pines should be gradually removed and not replanted (they are self-seeding in this area, and seedlings should be pulled up).

17. Rat Island

Conservation Importance – High

Rationale - Important for the conservation of the Saint Lucia whiptail lizard (*Cnemidophorus vanzoi*, a newly introduced population) and Saint Lucia worm lizard (*Gymnophthalmus pleii*).

Management needs - Ensure the island retains suitable habitat for these rare native lizards. Prevent the invasion of any alien species, and check the island regularly for any alien plants or animals (including maintaining and regularly monitoring bait stations). Any alien species should be promptly removed. Visitor numbers should be restricted, and overnight camping prohibited. Raise national awareness of the importance of this site. Study status and ecology of the endemic reptiles and their prey.

18. Mount Tabac/ Gimie Range

Conservation Importance – Medium

Rationale - Range identified for its botanical importance, part of which (including Mount Gimie) is in the Forest Reserve. The summits and joining ridges have a narrow band of interspersed cloud montane rainforest and elfin shrublands, containing about 15 plant species not found elsewhere, many of which are Lesser Antillean and Caribbean endemics. Mount Tabac ridge has abundant *Podocarpus coriaceus* on its interior half.

Management needs - Maintain under as much natural forest cover as possible, both to conserve biodiversity and maintain its watershed functions. (Most of this area is too steep to be used for almost any other purpose).

19. Dorée-Piaye Ravines

Conservation Importance – Medium

Rationale - More than 1,000 hectares of steep-sided ravines (River Doree and Piaye) containing rare examples of well developed, intact semi-evergreen seasonal forest. Noted for rare riverine vines.

Management needs - A multiple use area which should be maintained under its rich natural forest cover. Avoid logging (steep ravines). More research warranted into flora and fauna. Explore potential for establishing tourist hiking trails along the ravines (in addition to the natural beauty, there are rare petroglyphs to see). The main areas of ecological importance are fairly inaccessible, but should be protected from pollution from agricultural lands.

20. Cul de Sac

Conservation Importance – Medium

Rationale - An important wetland along the Cul de Sac River: an important site for migratory birds, and contains a rare example of *Pterocarpus officinalis* freshwater swamp forest.

Management needs - Prevent any developments that may alter inflow or drainage of this wetland, or pollute its water supply.

21. Mount Parasol Range

Conservation Importance – Medium

Rationale - Range identified for its botanical importance. Mount Parasol contains good examples of semi-evergreen seasonal forest, while the adjoining areas have pristine semi-evergreen seasonal forest

and lower montane rain forest. The Lesser Antillean endemic plant *Calyptranthes elegans* occurs here and nowhere else in Saint Lucia. This area is also noted for its Saint Lucia fer-de-lance (*Bothrops caribbaeus*).

Management needs - Maintain this zone under natural forest cover, ensuring this is contiguous to the Forest Reserve and a large estate to the north, now owned by the National Trust. Replant denuded lower slopes with native vegetation. Control feral pigs and monitor impacts of control efforts.

22. Mount Grenier

Conservation Importance – Lower

Rationale - Good quality deciduous seasonal forest on a steep hill, with several extremely rare species including *Myrciaria floribunda*, *Croton corylifolius*, *Eugenia tapacumensis*, and *Comocladia dodonaea*.

Management needs - Ensure the natural forest cover on this hill is not removed. This will require engagement with the private land owners.

23. Cactus Valley

Conservation Importance – Lower

Rationale - A small site extending to only 3.5 hectares, but considered to be one of the best sites for cacti in Saint Lucia.

Management needs - Conduct survey to confirm continued existence and significance of this area, in light of recent residential developments. If the area is still biologically valuable, develop management guidelines and negotiate with local developers to preserve this small site as a local nature site.

24. Anse La Liberté

Conservation Importance – Lower

Rationale - Recovering deciduous seasonal forest on National Trust land, with potential to be a good reserve for the native biodiversity associated with this underprotected forest type..

Management needs - Facilitate the recovery of natural forest in this National Trust property.

25. Hewanorra Ponds

Conservation Importance – Lower

Rationale - An important man-made site for migratory birds.

Management needs - Maintain current condition and biological values of this small site. Prevent any developments that may alter inflow or drainage of this wetland, or pollute its water supply. Monitor migrant birds and threats and pressures on this habitat.

4. Priority forest species for conservation

All indigenous species are important, but **Table 5** presents a shortlist of XX species of outstanding importance for people, the significant benefits they bring to the forest ecosystem, and/or high risk of extinction. These not only warrant special attention in Saint Lucia's overall forest management strategy, but some of them could be monitored as indicators of whether the country's conservation policies are working. This list is necessarily very selective, however, because many more species on Saint Lucia are known fit at least one of these criteria.

Daltry – Biodiversity Assessment

Table 4 A selection of priority species in need of conservation attention

List compiled by J. Daltry, M. Morton, R. Graveson and M. Ivie. (*) Species known or expected to be inside Forest Reserves.

Scientific name	Common names	Justification	Comments	Management Needs
PLANTS				
(*) <i>Asplundia rigida</i>	Ti kannou, Sidjinn (Lyenn)	Economic importance	Grows in rainforest, chiefly in the Forest Reserve. A palm-like epiphyte. Extremely common.	Conserve forest habitat. Harvesting can continue at current level.
<i>Bernardia laurentii</i>		Qualifies as globally threatened. National endemic	Only on the summit of Petit Piton.	Preserve native vegetation on Petit Piton - prevent fires and halt planting of exotic ornamental species on the piton.
<i>Carapa guianensis</i>	Andiroba, Brazilian mahogany, Bois caille, Bois rouge	Commercial importance Ecological importance Very rare on Saint Lucia	Timber has a wide range of uses (furniture, flooring, etc) Important food plant for amazon parrots and agoutis. This tree has not been seen inside the Forest Reserve.	Potential to be cultivated as a native timber tree in relatively flat semi-evergreen seasonal-wet areas (techniques for cultivation have been developed in other countries). Offers an opportunity for local livelihoods - oil from seeds can be processed into soaps, candles, etc. Should conserve its remaining semi-evergreen seasonal forest habitat around Chassin).
<i>Cedrela odorata</i>	Cigar-box wood, Red cedar, Acajou	Globally threatened (VU). Commercial potential	In great demand for its timber in Saint Lucia, mainly for furniture. Not seen inside the Forest Reserve.	Need to maintain its semi-evergreen seasonal-wet forest in the Soufriere area, and (to a lesser extent) in the Parish of Choiseul (both SW Saint Lucia). Potential to be cultivated in moderately wet areas as a native plantation tree
(*) <i>Clusia major</i> (also called <i>C. rosea</i>) and (*) <i>Clusia plukenetii</i>	Pitch apple, Strangling fig, Awali (Lyenn)	Economic importance Ecological importance	<i>Clusia major</i> is quite widespread in lower rainforests and semi-evergreen forests, inside and outside of the Forest Reserve. <i>Clusia plukenetii</i> is in deciduous and semi-evergreen seasonal forests mostly outside of the Forest Reserve (but may be inside the Forest Reserve areas with deciduous seasonal forest). Aerial roots of both species are harvested (under license in the Forest Reserve) for basket weaving. Harvesting does not appear to damage the tree. Parrots feed on <i>Clusia</i> fruits. Parrot experts have indicated that collection of these 'lianas' disturbs nesting parrots (but there is little hard evidence to support this).	Conserve deciduous and semi-evergreen seasonal forests. Continue licensing collectors in permitted areas, but ideally not in known parrot nesting areas..
(*) <i>Coccothrinax barbadensis</i>	Latannier palm, Latannyé	Commercial importance Becoming rare in the wild	Used in broom production for local consumption and export. Becoming rare in the wild chiefly due to overexploitation, but SLFD is addressing this through establishing commercial plantations. Occurs in coastal deciduous seasonal forests. May occur in the Forest Reserves with deciduous seasonal forest.	Prevent further over-exploitation and, increasingly, conserve deciduous seasonal forest habitat on the Atlantic coast. Further development of commercial plantations on private land could help relieve pressure on wild stocks.

Daltry – Biodiversity Assessment

Scientific name	Common names	Justification	Comments	Management Needs
(*) <i>Dacryodes excelsa</i>	Gommier, Candlewood, Gonmyé.	Ecological importance Commercial importance Regional endemic	Important component of the Lower Montane Rainforest (in Forest Reserve), Wood good for furniture and general carpentry. Resin collected (but less valuable than Lansan) Food plant (and nesting tree) for Saint Lucia amazon.	Has potential for developing a <i>sustainable</i> resin harvesting industry. Continue to preserve rainforest. In selectively logged areas, always leave large, mature trees undisturbed for parrot nesting.
<i>Guaiacum officinale</i>	Lignum vitae, Gayak	Globally threatened (EN) Very rare on Saint Lucia	Known on deciduous seasonal hill at Louvet and Mount des Bottes (Northeast). Can be cultivated, but very slow-growing (and international trade governed by CITES).	Conserve deciduous seasonal forests in NE Saint Lucia Potential to plant this species to restore deciduous seasonal forests and future commercial use.
<i>Juniperus barbadensis</i> var. <i>barbadensis</i>	Pencil cedar	National endemic subspecies Globally threatened (CR)	World's last population is on Petit Piton.	Conserve native vegetation on Petit Piton: prevent fires and spread of exotic ornamentals. Opportunity to cultivate this species as a native Christmas tree (replace foreign <i>Cupressus lusitanica</i>).
(*) <i>Lobelia santa-luciae</i>	Saint Lucia lobelia	National endemic May qualify as globally threatened A flagship for elfin shrublands	Occurs only in elfin shrublands on Mount Gimie range.	Conserve peaks of Mount Gimie range (inside Forest Reserve)
(*) <i>Passiflora laurifolia</i>	Ponm dilyenn (Lyenn)	Economic importance Ecological importance	Common in deciduous and semi-evergreen seasonal forests Should be in the seasonal forests in the Forest Reserve (not confirmed) Parrots feed in fruits. Lianas harvested for basket weaving. Unknown whether this species is as important, or sustainable, as the other species called 'lyenn'.	Conserve semi-evergreen forest habitat. Investigate use and sustainability of this species as a source of 'lyenn'.
(*) <i>Pouteria pallida</i>	Pennepis	Globally threatened (EN) Ecological importance Regional endemic	Food plant (and nesting tree) for Saint Lucia amazon. Still common on Saint Lucia.	Continue to conserve lower level of lower montane rainforest in the Forest Reserve (up to 600m) and semi-evergreen seasonal forest, especially close to rivers In selectively logged areas, always leave large, old trees standing for parrot nesting.
(*) <i>Pouteria semecarpifolia</i>	Contweven	Globally threatened (VU) Ecological importance Regional endemic	Food plant (and nesting tree) for Saint Lucia amazon Still common on Saint Lucia.	Continue to conserve lower montane rainforest in the Forest Reserve (up to 600m) Quite rare and should never be logged.
(*) <i>Protium attenuatum</i>	Incense wood, Lansan	Economic importance Ecological importance Globally threatened? (listed DD). Regional endemic	St Lucia is probably its last stronghold - still common in Forest Reserve (lower montane rainforest) Food plant for Saint Lucia amazon	Conserve lower montane rainforest, especially the Barre de Lisle strip and semi-evergreen seasonal forest. Opportunity to develop sustainable resin management with tappers to use this resource (and to enlist their assistance to protect it).
(*) <i>Schefflera attenuata</i>	Fijé Di Mon	Regional endemic	Important fruiting tree for birds and bats.	Conserve all cloud montane forest areas on

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Scientific name	Common names	Justification	Comments	Management Needs
(*) <i>Sideroxylon foetidissimum</i>	Yellow mastic, Akoma	Ecological importance Ecological importance Rare.	Uncommon in the wild throughout its range. Now very rare in Saint Lucia Fruits edible for humans, and eaten by birds In deciduous seasonal forest (including the Forest Reserve).	ridges if Mount Gimie range and Piton Esprit. Conserve deciduous seasonal forest habitat - including the Forest Reserve parcels in Maquis/ Petite Anse area, on Gros Piton and Grande Anse – to promote the recovery of this rare tree.
(*) <i>Zanthoxylum flavum</i>	Arkokwa	Globally threatened (VU) Valuable timber Rare on Saint Lucia.	Now very rare in Saint Lucia In deciduous seasonal forest (including the Forest Reserve).	Conserve deciduous seasonal forests and enable recovery of this species: naturally occurs from Petit Anse as far south as Mon Repos (including the Forest Reserve parcels in Maquis area) Potential to grow this native tree in plantations in drier areas.
ANIMALS				
Mammals				
(*) <i>Sturnira lilium luciae</i>	Little yellow-shouldered bat	National endemic subspecies Ecological importance.	Feed mainly on fruits (role in seed dispersal), also nectar, pollen (role in pollination) and insects. Declines of this species on other islands, have been attributed to loss of forest habitat (poor at using agricultural areas).	Requires continued protection of natural rainforest in the Forest Reserve.
(*) <i>Monophyllus plethodon luciae</i>	Lesser Antillean long-tongued bat	Regional endemic Ecological importance. Socio-economic importance.	A cave-roosting bat – at risk from quarrying and any other developments that affect its caves. Often roosts in association with other native bats Important role in pollinating plants, including commercial fruit crops.	Locate and protect roosting caves. (NB for all bats, more work is needed to locate, protect and monitor all roosts, especially species that congregate in large numbers. Many of the most important roosts are coastal)
(*) <i>Noctilio leporinus</i>	Greater fishing bat	Rare	Appears uncommon and patchily distributed over the island,. May be sensitive to pollution of water. Roost in sea caves and in hollows in mature, large trees (native and non-native, e.g., including silk cottonwood <i>Ceiba pentandra</i> , balata <i>Manilkara bidentata</i> , red mangrove <i>Rhizophora mangle</i> and royal palms <i>Roystonea</i> spp). Suitable roost sites appear to be relatively limited.	Locate and protect roosting caves and trees. Leave large, dead trees standing where possible.
Birds				
(*) <i>Amazona versicolor</i>	Saint Lucia amazon (parrot), Jacquot	National endemic species Globally threatened (VU) Flagship species for rainforests Ecological importance Attracts tourists	Important in forest tree dispersal. A Parrot Reserve was established in the Central Forest Reserve, but does not include all key nesting areas. Population is increasing rapidly, due to successful conservation programme to tackle hunting (collection for pet trade). Prefer large old trees for nesting. May depend on trees with deep crevices to avoid egg predation by pearly-eyed thrashers. Diet includes Blue Mahoe (currently grown in plantations) Raid fruit crops outside of the Forest Reserve.	Requires continued protection of natural rainforest in the Forest Reserve: Known nesting areas in the southern Central Forest Reserve should have minimal disturbance. Large old trees should not be logged Develop strategy to addressing conflict with farmers (likely to increase with growing parrot population and shift from bananas to other crops).
<i>Caprimulgus rufus otiosus</i>	Saint Lucia nightjar	National endemic subspecies	Depends on deciduous seasonal forest outside the Forest Reserve.	Localised control of mongooses, pigs and other alien predators could be beneficial.

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Scientific name	Common names	Justification	Comments	Management Needs
		Qualifies as globally threatened Declining	Threatened by alien mammals (mongooses, cats, probably opossums) Use short forest.	Habitat could be created by clearing patches to form shorter forest growth (a potential side-benefit of selecting logging and of removing alien tree species - see below).
<i>Cichlherminia lherminieri sanctaeluciae</i>	Forest thrush	National endemic subspecies Globally threatened (VU) Very rare	Inhabits deciduous seasonal and semi-evergreen seasonal forests – both under threat in Saint Lucia.	Depends on maintenance of natural deciduous seasonal and semi-evergreen seasonal forest outside the Forest Reserve.
(*) <i>Icterus laudabilis</i>	Saint Lucia oriole	National endemic species Globally near-threatened (NT)	Quite adaptable - occupies a variety of forest types. Appears to be declining, but causes are unknown. (Nest parasitism and secondary poisoning with insecticides are two hypotheses).	Depends on continued protection of high quality natural forest in the Forest Reserve. Identify cause of decline.
(*) <i>Leucopeza semperi</i>	Semper's warbler	National endemic species Globally threatened (CR) - feared extinct	Reason for decline unknown – probably alien invasive predators.	If still exists, this bird will depend on continued protection of natural rainforest in the Forest Reserve.
(*) <i>Melanospiza richardsoni</i>	Saint Lucia black finch	National endemic species Globally threatened (EN)	Needs forests (deciduous seasonal, semi-evergreen seasonal or wet) with dense undergrowth Patchy distribution and declining on Saint Lucia, putatively due to loss of suitable forest habitat (and competition with the bullfinch in more degraded areas).	Depends on continued protection of high quality natural forest, especially deciduous seasonal forest, both in and outside the Forest Reserve. Identify habitat factors or other factors that explain its patchy distribution (e.g. MSc project)
(*) <i>Ramphocinclus brachyurus sanctaeluciae</i>	White-breasted thrasher	National endemic subspecies Globally threatened (EN) Flagship species for deciduous seasonal forests Decreasing	Two main populations in Northeast and (especially) Eastern deciduous seasonal forests. Few are in the current Forest Reserve system (eastern end of Dennerly Waterworks). Need mature deciduous seasonal forest with large trees. Intolerant of forest fragmentation and poor at crossing roads. Also threatened by alien mammals (mongooses, cats, probably opossums).	FD advised to acquire or otherwise help ensure protection and restoration of deciduous seasonal forest areas especially Mandele area (East) and Povert to La Ti Tanse (Northeast). Localised control of mongooses and other alien predators could be beneficial.
(*) <i>Troglodytes aedon mesoleucus</i>	Saint Lucia wren	National endemic subspecies Declining	Entirely in deciduous seasonal forests	Depends on preservation of deciduous seasonal forest mostly outside the Forest Reserve.
Reptiles				
* <i>Boa constrictor orophias</i>	Saint Lucia boa, Tet chyenn	National endemic subspecies Ecological importance Globally threatened (qualifies as VU) Economic importance	The natural forest 'top predator' Some economic value for snake oil industry (to treat rheumatism), but the practice of taking fat from live snakes is inhumane and there are better alternative cures. Some indications that this species is declining. Protected by law.	Stop issuing licences to harvest snake oil, unless this can be demonstrated to be done in a sustainable and humane way.
(*) <i>Bothrops caribbaeus</i>	Saint Lucia fer de lance Saint Lucia pitviper, Sepan	National endemic Globally threatened (qualifies as VU) Declining Ecological importance	May have beneficial role in controlling mongooses (which endanger other wildlife) Potentially dangerous to humans (including forest workers and tourists on trails), but very few bites per year. The best way to minimise human-snake conflict is to keep the	To prevent extinction, recommend setting aside (remote) areas where people do not need to go and these snakes will not be persecuted Forest workers should be given training and

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Scientific name	Common names	Justification	Comments	Management Needs
<i>Cnemidophorus vanzoi</i>	Saint Lucia whiptail lizard, Zandoli tè	Economic potential Medical importance National endemic Globally threatened (VU – qualifies as EN) Ecological importance Flagship for the offshore islands.	two spatially separated as much as possible. Venom products may be commercially valuable. Probably used to occur throughout Saint Lucia, but disappeared from the mainland due to alien mammals (e.g. mongooses). Now survive only on offshore islands, including Maria islands (wildlife reserve). Prey species for the Saint Lucia racer, <i>Liophis ornatus</i> .	appropriate clothing to reduce injuries (to them and the snakes). Must prevent the Maria Islands, Praslin and Rat Islands from being invaded by any alien species (animals and plants).
(*) <i>Iguana cf iguana</i>	Saint Lucia iguana, Gwo zandoli, Leza	National endemic Globally threatened (qualifies as CR) A flagship species for deciduous seasonal forests Tourism potential	None/ very few in current Forest Reserve system (and even these need the nesting areas outside of the reserve). Favour mature deciduous seasonal forest with large trees, and ravines. Threatened by alien green iguanas (below), dogs and feral pigs. Need to maintain contiguous forest cover to the nesting areas - iguanas are more vulnerable to dogs and other predators when they are on the ground.	Localised alien mammal control may help, especially in nesting areas (e.g. Grande Anse, Louvet). FD's reserves in NE should be well conserved to set a good example to neighbouring landowners. FD to acquire or otherwise help ensure (e.g. through co-management agreements with local owners and developers) protection of deciduous seasonal forest areas in NE Saint Lucia. Migration corridors should be kept forested for iguanas to reach the (limited) nesting sites. Crucial to preserve Maria Major and prevent it from being invaded by alien species that may kill the racers or disrupt the island ecosystem. Develop in situ or ex-situ programmes to increase the population (e.g., reintroduction to other predator-free islands).
<i>Liophis ornatus</i>	Saint Lucia racer, Saint Lucia grass snake , Kouwès	National endemic Globally threatened (EN, but qualifies as CR)	Entire world population is on Maria Major (wildlife reserve). Probably used to occur throughout Saint Lucia, but disappeared from the mainland due to alien mammals (e.g. mongooses). The current population is probably too small to be viable.	Ensure offshore islands are kept free of alien invasive mammals, especially the Maria Islands. Localised control of alien predators (e.g., mongooses) could be very beneficial. Identify habitat factors or other factors that explain its patchy distribution (an MSc project)
(*) <i>Sphaerodactylus microlepis</i>	Saint Lucia pygmy gecko	National endemic Globally threatened (qualifies as VU)	Population fragmented and probably declining due to alien invasive animals.	
Insects				
(*) <i>Ateuchus luciae</i> and <i>Pseudocanthan iuanalaoi</i>	Dung beetles	National Endemic species	Important in disposing of faeces. Possibly under threat from invasive African dung beetle <i>Onthophagus gazellae</i> .	
(*) <i>Chloronia antillicnsis</i>	Dobsonfly	Only Antillean species of its Order. Known only from Dominica and Saint Lucia.	Larvae inhabit high elevation streams and are sensitive to water quality.	
(*) <i>Dynastes hercules reidi</i>	Saint Lucia hercules beetle,	Local endemic subspecies (shared with Martinique).	Saint Lucia population needs reevaluation (may be upgraded to a full species).	Allow rotten stumps and trees (standing or fallen) to remain.

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Scientific name	Common names	Justification	Comments	Management Needs
	Siye Bois	Economic potential.	Owing to its large size, collectors are interested in buying live or preserved specimens. Could be sold to tourists. Conservation status unknown – none were found during 2009 entomological survey, but adults reported to emerge in December. Larvae feed on rotten wood and take a year or more to develop. Reported to be associated with Bwa Dou tree	Potential livelihood opportunity (selling beetles to tourists and overseas collectors), if managed sustainably. Evaluate taxonomic status of the Saint Lucia population
<i>Megastylulus pivai</i> and <i>Stylulus isabelae</i>	Ground beetles	National endemic at generic (<i>Megastylulus pivai</i>) or species (<i>S. isabelae</i>) level	Eyeless soil dwellers known only from Ravine Chabot, not recovered in 2009	Biology unknown
(*) <i>Paraclymtemnestra lineata</i>	Longhorn beetle	National endemic at generic level	Large and very rare species Wet Forests Wood borer	
<i>Phyllophaga lackwelderi</i>	May beetle, white grub	National Endemic species	Soil dwelling larvae feed on roots Abundant on eastern coast in deciduous seasonal forest Adults fly to lights. Biomass may exceed that of any native vertebrate species	Larvae may be a pest in sugar cane and even banana, requires study Adults probably important to insectivores during emergences

5. Threats to Forest Biodiversity

5.1. Forest Threat Analysis

Numerous threats to Saint Lucia's forests and their biodiversity were identified during the present project (e.g. Clarke, 2009; Daltry, 2009; Graveson, 2009a, 2009b; Morton, 2009a, 2009b; Toussaints *et al.*, 2009); many of which echoed concerns raised by previous studies (e.g. Towle & Towle, 1991).

To construct a clearer overview of the current factors that threaten forests, and their relative importance, the author facilitated a workshop at the Forestry Department on 15 October 2009 to gather the expert opinions of senior Forestry Department personnel and other experts from the environmental sector. To ensure no major threats were overlooked, a list of all possible threat categories were taken from IUCN's Conservation Measures Partnership (see www.conservationmeasures.org for full descriptions with examples).

The participants were divided into three groups and each group was asked to discuss a cluster of threats to determine whether they were applicable to Saint Lucia's forests and to describe some examples. The following simple scoring system was devised to help the participants rank the threats in terms of their importance:

Scores for assessing each threat

- 0 Not a threat.
- 1 Minor threat (requiring monitoring, but not specific management).
- 2 Moderate threat (requiring specific management actions to address it).
- 3 Major threat (requiring immediate and intensive management).

Every group was then asked to present their findings to the rest of the workshop participants, which resulted in some revisions based on audience feedback. **Table 5** shows the main findings of this process.

What is most striking from this assessment is the relatively low number of major threats (subcategories scoring 3) affecting forests in the Forest Reserves compared with forested areas on private land. This tells us that the Forest Reserve is working remarkably well to achieve its purpose of protecting forests, and areas within this network are reasonably secure. This exercise has been conducted for protected areas worldwide, and such a low number of major threats is unusual in an area of this size and proximity to many settlements. This finding is to the credit of the Forestry Department.

Table 5 suggests that forested areas outside of the Forest Reserves are at approximately four times more risk from major threats, a significant and alarming difference. Preserving forests and forest resources on private land now warrants as much if not more attention than the Forest Reserves to avoid catastrophic losses.

Nevertheless, any threats that scored two or three in either location are, according to the workshop participants, very serious and demand more concerted attention than is currently being given. Some of the most critical, immediate threats, are explored further below the table.

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Table 5 General Assessment of Threats to Saint Lucia’s Forested Areas

Assessment conducted by: Adams Toussaint, Alfred Prospere, Rebecca Rock, Timotheus Jn Baptiste, Allwin Dornelly, Michael Andrew, Anita James, Pius Haines, Odetta James, Nerius Mitchell, Roger Graveson, Karla van Eynde, Matthew Morton, David (Stylo) Lewis, Caroline Eugene, and Jenny Daltry.

CATEGORY/ Subcategory	Score	
	Forest Reserves	Outside Forest Reserves
1. RESIDENTIAL AND COMMERCIAL DEVELOPMENT		
Housing and Urban Areas	0	3 Urban development plans in North East quarter (deciduous seasonal forests)
Commercial and Industrial Areas	0	2 Cul de Sac (important wetland and freshwater swamp forest) at risk. Landfill in Deux Glo.
Tourism and Recreation Areas	1	3 Le Paradis development, marinas, high-footprint developments planned at Louvet and Grande Anse.
2. AGRICULTURE & AQUACULTURE		
Annual and Perennial Non-Timber Crops	2 Marijuana gardens in secondary forest in Forest Reserves.	3 Conversion of mid-level forests [lowland montane rainforest and semi-evergreen seasonal deciduous forest] to gardens.
Wood and Pulp Plantations	1 Selective and well-managed.	0
Livestock Farming and Ranching	1 Some problems in Northern Range.	3 Free-ranging cattle and pigs are a major problem in places such as Grande Anse.
Marine and Freshwater Aquaculture	0	0
3. ENERGY PRODUCTION AND MINING		
Oil and Gas Drilling	0	1 Proposed oil refinery.
Mining and Extraction	1 Soil mining.	2 Quarries, soil mining and, on beaches, sand mining (affecting turtle nesting beaches e.g. Grande Anse.
Renewable energy	0	1 Geothermal exploration in Sulphur Springs.
4. TRANSPORTATION AND SERVICE CORRIDORS		
Roads and Railroads	3 Proposed tunnel at Barre de Lisle.	3 Ravine poison disaster during road construction in 1965.
Utility Lines	1 (monitored)	1 (monitored)
Shipping Lanes	0	0
Flight Paths	2 Helicopter tours over island disturb parrots during breeding season.	1 Helicopter tours disturb parrots.
5. BIOLOGICAL RESOURCE USE		
Hunting and Collecting Terrestrial Animals	2 Species targeted included protected species e.g. agouti (non-native), opossum (non-native) and birds. The full extent and intensity is not known.	2 As left.

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CATEGORY/ Subcategory	Score	
	Forest Reserves	Outside Forest Reserves
Gathering Terrestrial Plants and Plant Products	2 - 3 Collection of gum resin (<i>Dacryodes excelsa</i>), vines, bamboo, poles (for making brooms), latannye palm leaves (to make brooms). Score of 3 specifically given to collection of L'encens, <i>Protium attenuatum</i> resin, which can kill the tree.	2 Collection of gum resin (<i>Dacryodes excelsa</i>), vines, bamboo, poles (for making brooms), latannye palm leaves (to make brooms).
Logging	1 Some harvesting of poles.	3 Harvesting of mangroves e.g. Mankote (Pointe-Sable National Park)
Fishing and Aquatic Resource Harvesting	2 Use of toxins to poison water sources to catch crayfish and fish.	2 Use of toxins to poison water sources to catch crayfish and fish.
6. HUMAN INTRUSIONS AND DISTURBANCE		
Recreational Activities	1 Risks from fires	2 e.g. cooking fires on offshore islands and beaches presents a risk of forest fires.
Work and Other Activities	2 Eradication of marijuana fields.	2
War, Civil Unrest and Military Exercises	0	0
7. NATURAL SYSTEM MODIFICATIONS		
Fire & Fire Suppression	1 As right, but less frequent.	3 Linked to recreation and agriculture. Some deliberate burning in specific areas
Dams & Water Management/Use	1	3 e.g. for golfcourses. Private lands with their own water sources are at a high premium.
Other Ecosystem Modifications	0	3 Diversion and desilting of rivers, drainage of swampy areas impacting on bird life. Hotel developments; quarrying – all impacting on wildlife. [NB some duplication with categories above]
8. INVASIVE AND OTHER PROBLEMATIC SPECIES AND GENES		
Alien Invasive Species – animals	3 Feral pigs, mongooses, feral cats, rats. Also alien anole lizard (<i>Anolis watsi</i>) displacing native anole lizard (<i>Anolis luciae</i>).	3 Feral pigs, mongooses, feral cats, rats. Also alien lizard (<i>Anolis watsi</i>) replacing native lizard. Alien green iguana (<i>Iguana iguana</i>) threatens native iguana. Feral monkeys?
Alien Invasive Species – plants	1 Bamboo	3 e.g. <i>Coccinia grandis</i> and the glue tree <i>Cordia obliqua</i> .
Problematic Native Species	0	2 Saint Lucia amazon parrot raids fruit farms. Bats are a nuisance in houses. Shiny cowbird impacts other birds.
Introduced Genetic Material	0	0
Species Hybridization		0 - 3 (Score of 3 specifically given to alien green iguana, which has potential to hybridize with the endemic iguana)
9. POLLUTION		
Household Sewage and Urban Waste Water	0	3 Affects mangroves and rivers, harming aquatic life.
Industrial and Military Effluents	0	1 Pumice mining and minor industrial chemical waste
Agricultural & Forestry	1	3

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CATEGORY/ Subcategory	Score	
	Forest Reserves	Outside Forest Reserves
Effluents		Agrochemicals, especially on banana plantations. Effluent from pig and poultry farms.
Garbage & Solid Waste	2	3 Block drains and causes flooding. Associated with rodents.
Airborne Pollutants	0	0
Excess Energy (heat, light, noise etc)	0	1 [Participants cited helicopter noise, but this was covered under category 4]
10. GEOLOGICAL EVENTS		
Volcanoes	1 Potentially massive threat, but unlikely/ infrequent.	1 Potentially massive threat, but unlikely/ infrequent.
Earthquakes and Tsunamis	0 Potentially big threat, but unlikely/ infrequent.	0 Potentially big threat, but unlikely/ infrequent.
Landslides and Avalanches	1 Natural hazard	2 Exacerbated by human activities.
11. CLIMATE CHANGE AND SEVERE WEATHER		
Habitat Shifting and Alteration	3 Climate Change could/will lead to changes in habitats and hence species composition, including loss of montane habitats (and their species).	3 Climate Change could/will lead to changes in habitats and hence species composition, including loss of montane habitats (and their species).
Climate Variability	2 Causes change in species composition.	2 Causes change in species composition.
<i>No. of subcategories classed as Major Threats</i>	4	16
<i>No. of subcategories classed as Moderate Threats</i>	7	10

5.2. Discussion of Selected Major Threats to Saint Lucia's Forests

5.2.1. Development on private land (Threat Category 1)

At least half of Saint Lucia's forests are under private control, and participants of the threat analysis drew particular attention to the mounting threats to forests in the North East and East (see the uppermost priority areas in sections 3.2 and 3.3 and on **Figures 2 and 3**). These areas constitute at least half of Saint Lucia's non-crown land forests, very large parcels of which have already been sold or promised to developers. Importantly, these are Deciduous Seasonal Forests, a forest type that is severely under-represented in the current protected area system.

Experience from Saint Lucia and other islands suggests that most modern developers will, if permitted to do so, clear most of the natural forest from the plots and construct large scale tourists resorts, holiday homes or luxury housing, with a number of recreational amenities such as golfcourses and marinas. Native vegetation cover is typically removed and replaced with exotic ornamentals, propagated in local nurseries or imported from overseas. Such developments are often promoted as a way of making jobs or adding to national prestige.

There are several possible approaches to ensuring that at least some of these forests will be preserved, which could be mixed and matched according to the situation.

Regulation

Regulation is the most widely used tool for retaining native vegetation on private land in developed countries. This is cost effective when assets and values are seriously under threat and any further damage may result in irreversible losses, and when preventing these losses has considerable benefits. Regulations may include, for example, prohibiting the felling of trees above a certain girth without a permit from the Forestry Department, requiring owners of large plots to retain a minimum percentage under natural vegetation cover, or preventing forests from being cleared within a specific distance from a ravine. Such regulations are commonly used in developed countries.

Many suitable regulations already exist under the current Forestry, Soil and Water Conservation Act, but are applicable to Crown Land only: Could these be extended to include private land, under a revised Act? New regulations can cause ill feeling among landholders when they are perceived to impinge on property rights, however, and national governments throughout the West Indies commonly give developers considerable free rein to avoid the risk of losing them to other countries competing for their investment.

Biodiversity offsets

This is a powerful approach that requires landowners or developers to make a direct, positive contribution to conservation to offset the negative impacts of their actions. Government permission to develop an area would be contingent on them paying for or setting aside an equivalent area for the purposes of nature conservation. For a country where the main development pressures come from the relatively wealthy owners and developers of large estates, this should be a workable compromise. The Forestry Department could take an important role in assessing and proposing suitable offset areas.

Land purchase

Land purchase effectively adds land to the public reserve system, which according to the Threat Analysis above, could automatically give its forests four times more protection. If the government needs complete control of land (certainty), if the land offered is large in area and next to existing reserves, and if the land has a high ecological value, then this may be the best option. Land should ideally be purchased with government funding, but money to buy land on behalf of the nation could be raised from the private sector, or from special land purchase schemes such as The Nature Conservancy (www.nature.org), World Land Trust (www.worldlandtrust.org) and Arcadia Land Trust (<http://www.fauna-flora.org/arcadia.php>).

One difficulty is that Saint Lucia's land prices are very high, especially in the sought-after dry forest zone near the coast, and it would be difficult for either the government or other sponsors to out-bid what a developer would offer. In 2009, for example, 500 acres (202 hectares) of Marquis Estate was advertised for US\$10 million, or \$20,000 per hectare. The same price tag would buy 50,000 hectares of Amazonian rainforest (\$200 per hectare) with a much higher diversity of species per unit area. International donors may regard Saint Lucia as a relatively poor investment for its conservation return.

The cost of managing the area in perpetuity, by the government or a designated trust, also needs to be factored into the equation. Land purchases may therefore be limited to relatively small plots with

exceptionally high conservation value. This is further complicated by the fact that most forested areas in Saint Lucia take the form of large estates that are commonly sold in large blocks.

Conservation easements

Voluntary agreements can be effective at conserving biodiversity on land where owners are conservation minded. Often these landholders do not consider other forms of development as the main use of their land – they are not driven primarily by economic incentives. A number of landowners in Saint Lucia have bequeathed lands to the National Trust to run, rather than sell them to developers.

Private nature reserve

Private land owners, particularly those with an interest in tourism, could be encouraged and assisted to actively manage part of the land for nature-based tourism. This could be practiced in any of the forest types on Saint Lucia, as all forest types support interesting and attractive wildlife (especially birds).

Conservation incentives

For landowners that want or need the land to generate revenue, other innovative mechanisms can be developed to make the forests a competitive land use option for the landowner and the country. Some of approaches used in other developing countries are summarized below and could be mixed and matched according to the situation. While these do not involve a direct financial transaction to the landowner, they may need investment in education and training on management issues relating to biodiversity conservation.

Payment for Environmental Services: Owners of forests are financially paid for the environmental benefits that the forests bring to society at large or to specific industries. This has been successfully practiced in Costa Rica, under the Forestry Law of 1996, where the program is financially supported by taxes on fossil fuels. New proposals have also been developed involving the private sector, such as paying for drinking and irrigation water (SCBD, 2001). Payments can be scaled according to the forestry land use type.

Table 6 Example of Payment for Environmental Services – Costa Rica

Amount paid for environmental services and commitment period for each forestry land use type in the Costa Rica government's Payment of Environmental Services scheme (SCBD, 2001).

Forest Land use type	Total amount paid over a five year period (US\$ per ha)	Annual payments as percentage of total for years 1-5 (years)					Period of commitment (years)
		1	2	3	4	5	
Reforestation	565	50%	20%	15%	10%	5%	15
Natural Forest Management	344	50%	20%	10%	10%	10%	5
Natural Forest Preservation or Regeneration	211	20%	20%	20%	20%	20%	10

REDD and other forms of carbon-linked revenue: van Eynde (2009) presented an excellent analysis of various options suitable for Saint Lucia, which could be applied to private land as well as crown land.

Timber and NTFP production: Saint Lucia's forests contain a high diversity of timber and non-timber species, but this diversity comes at the price of the low abundance and patchy distribution of most species. For this reason, the sustainable management of mixed tropical forests for timber purposes

alone yields generally low financial returns. For small scale, private operations, the best financial returns come from harvesting both timber and non-timber forest products, either by the owners themselves, or through concessions granted to other users (SCBD, 2001).

Tax incentives: Tax incentives target those landholders with large tax bills, with a percentage of their taxes waived in reward for an agreement to retain land under natural forest cover. While there is a cost to the country, from reduced revenue from certain individuals, this approach tends to be more appealing and affordable to the Government than a direct land purchase.

Annex I Species Checklists

Table A Seed Plants (Angiosperms and Gymnosperms) of Saint Lucia

Table B Ferns and their allies (Pteridophytes) of Saint Lucia

Table C Beetles of Saint Lucia

Table D Flies of Saint Lucia

Table E Dragonflies of Saint Lucia

Table F Reptiles and Amphibians of Saint Lucia

Table G Birds of Saint Lucia (excluding vagrant records)

Table H Mammals of Saint Lucia

Table A Seed Plants (Angiosperms and Gymnosperms) of Saint Lucia

* Species not collected since 1930s. Data from Graveson (2009a)

Scientific name	Common names	Status	Scientific name	Common names	Status
Acanthaceae			<i>Celosia argentea</i>		Alien
<i>Asystasia gangetica</i>	Chinese Violet.	Alien	<i>Cyathula prostrata</i>		Alien
<i>Avicennia germinans</i>	Manng Salé. Black Mangrove.		<i>Dysphania ambrosioides</i>	Semen Contwé.	Alien
<i>Avicennia schaueriana</i>	Manng Salé. Black Mangrove.		<i>Gomphrena serrata</i>		
<i>Barleria lupulina</i>	Hophead Philippine Violet.	Alien	* <i>Iresine angustifolia</i>		
<i>Blechnum pyramidatum</i>	Zo Nwè. Fonn San.		<i>Iresine diffusa</i>		
<i>Dicliptera martinicensis</i>		Caribbean endemic	<i>Lithophila muscoides</i>		
<i>Hemigraphis alternata</i>	Red Flame Ivy.		<i>Microtea debilis</i>	Alatoukay.	
<i>Justicia pectoralis</i>	Chapantyé.		Amaryllidaceae		
<i>Justicia periplocifolia</i>		Caribbean endemic	<i>Crinum asiaticum</i>	Poison Bulb.	Alien
<i>Justicia secunda</i>	St. John's Bush.		<i>Crinum bulbispermum</i>		Alien
* <i>Justicia carthaginensis</i>			<i>Crinum zeylanicum</i>		Alien
<i>Odontonema cuspidatum</i>	Firespike.	Alien	<i>Eucharis amazonica</i>		Alien
<i>Odontonema nitidum</i>	Chapantyé Gwan Bwa.	Caribbean endemic	<i>Hippeastrum puniceum</i>	Easter Lily.	Alien
<i>Ruellia tuberosa</i>	Ti Patat.		<i>Hymenocallis caribaea</i>	Lonyon Gli. Spider Lily.	Caribbean endemic
<i>Ruellia tweediana</i>	Mexican Petunia.	Alien	<i>Zephyranthes citrina</i>	Rain Lily.	Alien
<i>Teliostachya alopecuroidea</i>			Anacardiaceae		
<i>Thunbergia alata</i>	Black-Eyed Susan Vine.	Alien	<i>Anacardium occidentale</i>	Ponm Acajou. Nwa. Cashew.	Alien
<i>Thunbergia fragrans</i>		Alien	<i>Comocladia dodonaea</i>	Bwa Di Hou.	Caribbean endemic
<i>Thunbergia grandiflora</i>	Trumpet Vine.	Alien	<i>Mangifera indica</i>	Mango.	Alien
Agavaceae			<i>Spondias mombin</i>	Mouben. Hog Plum.	Alien
<i>Agave caribaeicola</i>	Lang Béf. Lapit Century Plant.	Less. Ant. endemic	Annonaceae		
<i>Furcraea tuberosa</i>		Caribbean endemic	<i>Annona glabra</i>	Fey) Manmà. Kajouka. Manjé Kwab.	
<i>Yucca aloifolia</i>	Spanish Bayonet.	Alien	<i>Annona montana</i>	Kachiman.	
Aizoaceae			<i>Annona muricata</i>	Kòsòl. Soursop.	Alien
<i>Sesuvium portulacastrum</i>			<i>Annona reticulata</i>	Kachiman Blan. Custard Apple.	Alien
<i>Trianthema portulacastrum</i>			<i>Annona squamosa</i>	Ponm Kannél. Sugar Apple.	Alien
Amaranthaceae			<i>Cananga odorata</i>	Ylang-Ylang.	Alien
<i>Achyranthes aspera</i>	Man-Better-Man.		<i>Gutteria caribaea</i>	Kòsòl Mawon. Ti Kachiman Bwa.	Caribbean endemic
<i>Alternanthera brasiliana</i>		Alien	<i>Oxandra laurifolia</i>		Caribbean endemic
<i>Alternanthera flavescens</i>		Alien	Apiaceae		
<i>Alternanthera olivacea</i>		Caribbean endemic	<i>Eryngium foetidum</i>	Chadon Beni.	
<i>Alternanthera paronychioides</i>			<i>Hydrocotyle verticillata</i>	Pawasol Djab. Pawasol Demou.	
<i>Alternanthera sessilis</i>			Apocynaceae		
<i>Alternanthera tenella</i>			<i>Allamanda cathartica</i>	Yellow Allamanda.	Alien
<i>Amaranthus blitum</i>		Alien	<i>Asclepias curassavica</i>	Kòtòn Kadwiv. Milk Weed.	Alien
<i>Amaranthus cruentus</i>	(Red, Purple) Amaranth.	Alien	<i>Catharanthus roseus</i>	Kaka Poul. Periwinkle.	Alien
<i>Amaranthus dubius</i>	Zèpina Blan.		<i>Cryptostegia madagascariensis</i>	Lèt Makak. Zong Makak.	Alien
<i>Amaranthus hybridus</i>	Zèpina.	Alien	<i>Gonolobus iyanolensis</i>		St. Lucia endemic
<i>Amaranthus spinosus</i>			<i>Marsdenia macrophylla</i>		
<i>Amaranthus viridis</i>			<i>Matelea maritima</i>		
<i>Blutaparon vermiculare</i>			<i>Metastelma parviflorum</i>		
<i>Celosia argentea</i>	Cockscomb.	Alien	<i>Nerium oleander</i>	Lowyé Wouj. Oleander.	Alien

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Scientific name	Common names	Status	Scientific name	Common names	Status
<i>Plumeria alba</i>	Frangipani.	Caribbean endemic	<i>Ptychosperma macarthurii</i>	Macarthur Palm.	Alien
<i>Rauvolfia viridis</i>	Bwa Let.		<i>Roystonea oleracea</i>	Royal Palm.	Alien
<i>Rhabdadenia biflora</i>			<i>Sabal causiarum</i>	Puerta Rican Hat Palm.	Alien
<i>Tabernaemontana citrifolia</i>	Bwa Let.		<i>Sabal mauritiiformis</i>		Alien
<i>Thevetia peruviana</i>	Yellow Oleander.	Alien	<i>Syagrus amara</i>	Gwou-Gwou.	Less. Ant. endemic
<i>Ilex macfadyenii</i>		Caribbean endemic			
<i>Ilex nitida</i>			Aristolochiaceae		
<i>Ilex sideroxyloides</i>	Ti Siton.	Caribbean endemic	<i>Aristolochia trilobata</i>	Twef.	
Araceae			Asteraceae		
<i>Alocasia cucullata</i>	'Pot Plant'.	Alien	<i>Acmella uliginosa</i>		
<i>Alocasia macrorrhizos</i>	Malanga. Giant (Upright) Tayo.	Alien	<i>Ageratum conyzoides</i>	Zèb A Mouton. Labonn Fanm. Latifi.	
<i>Anthurium cordatum</i>	Sidjinn.	Caribbean endemic	<i>Ambrosia hispida</i>		Alien
<i>Anthurium cordatum x hookeri</i>	Sidjinn.		<i>Baccharis pedunculata</i>		
<i>Anthurium grandifolium</i>	Sidjinn.	Caribbean endemic	<i>Bidens alba</i>		
<i>Anthurium guildingii</i>	Sidjinn.	Less. Ant. endemic	<i>Bidens cynapiifolia</i>	Zèb A Zédjwi.	
<i>Anthurium hookeri</i>	Sidjinn.		<i>Bidens pilosa</i>	Zèb A Zédjwi.	
<i>Anthurium palmatum</i>	Sidjinn.	Less. Ant. endemic	<i>Bidens reptans</i>		
<i>Anthurium willdenowii</i>		No recent collection	<i>Centratherum punctatum</i>	Magéwit.	
<i>Caladium bicolor</i>	Koko Shak.	Alien	<i>Chaptalia nutans</i>	Fèy Do Blan.	
<i>Colocasia esculenta</i>	Dasheen. Dasheen Chou. Dasheen Wouj. Dasheen Blan Danma. Kalalou.	Alien	<i>Chromolaena trigonocarpa</i>		Less. Ant. endemic
			<i>Chromolaena odorata</i>		
<i>Dieffenbachia seguine</i>	Kann Wiviyé. Kann Bwilé. Dumbcane.		<i>Clibadium erosum</i>		
			<i>Condylium iresinoides</i>		
<i>Epipremnum pinnatum</i>	Golden Pothos.	Alien	<i>Conyza bonariensis</i>		
<i>Landoltia punctata</i>	Duckweed.		<i>Conyza canadensis</i>		Alien
<i>Monstera adansonii</i>			<i>Conyza laevigata</i>		
<i>Montrichardia arborescens</i>			<i>Cosmos sulphureus</i>		Alien
<i>Philodendron consanguineum</i>		Alien	<i>Critonia macropoda</i>		Less. Ant. endemic
<i>Philodendron lingulatum</i>		Caribbean endemic	<i>Eclipta prostrata</i>	Konngolala.	
<i>Philodendron scandens</i>			<i>Egletes commixta</i>		
<i>Pistia stratiotes</i>	Chapo Ma. Water Lettuce.	Alien	<i>Egletes prostrata</i>		
<i>Syngonium podophyllum</i>	Arrowhead Vine.	Alien	<i>Elephantopus mollis</i>	Tèt Nèg.	
<i>Typhonium trilobatum</i>		Alien	<i>Eleutheranthera ruderalis</i>		
<i>Xanthosoma sagittifolium</i>	Tayo. Tannia.	Alien	<i>Emilia fosbergii</i>		
<i>Xanthosoma violaceum</i>	Chou Jamaik. Chou Blan. Chou Bouton. Purple-Stem Tannia.	Alien	<i>Emilia sonchifolia</i>		Alien
			<i>Epaltes brasiliensis</i>	Kamami.	
Araliaceae			<i>Erechtites hieraciifolius</i>		
<i>Oreopanax capitatus</i>	Fijé Sek.		<i>Erigeron karvinskianus</i>		Alien
<i>Schefflera attenuata</i>	Fijé Di Mòn.	Less. Ant. endemic	<i>Fleischmannia microstemon</i>		
Arecaceae			<i>Hebeclinium macrophyllum</i>		
<i>Acrocomia aculeata</i>	Ti Koko.		<i>Koanophyllon celtidifolia</i>	Bwa Flambo.	
<i>Aiphanes minima</i>	Gwigwi.	Caribbean endemic	<i>Lagascea mollis</i>		
<i>Coccothrinax barbadensis</i>	Latanyé.	Caribbean endemic	<i>Melanthera nivea</i>		
<i>Cocos nucifera</i>	Koko. Coconut.		<i>Mikania cordifolia</i>		
<i>Geonoma interrupta</i>	Goglèt.	Less. Ant. endemic	<i>Mikania micrantha</i>	Kacho.	
<i>Prestoea acuminata</i>	Palmis.	Caribbean endemic	<i>Mikania latifolia</i>		Less. Ant. endemic
			<i>Neurolaena lobata</i>	Zèb A Pik.	

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Scientific name	Common names	Status	Scientific name	Common names	Status
<i>Parthenium hysterophorus</i>	Matnitjen.		<i>Bourreria succulenta</i>		
<i>Pectis ciliaris</i>			<i>Cordia alliodora</i>	Sip.	
<i>Pectis elongata</i>	Sitonnèl.		<i>Cordia collococca</i>	Sip.	
<i>Pectis humifusa</i>		Caribbean endemic	<i>Cordia curassavica</i>	Maho Nwè.	
<i>Pluchea carolinensis</i>	Tabak Djab.		* <i>Cordia globosa</i>		
* <i>Pluchea odorata</i>			<i>Cordia martinicensis</i>	Maho Nwè.	Less. Ant. endemic
<i>Porophyllum ruderales</i>			<i>Cordia nesophila</i>	Maho Nwè.	Less. Ant. endemic
<i>Pseudelephantopus spicatus</i>	Tèt Nèg.		<i>Cordia obliqua</i>	Glue.	Alien
<i>Pseudelephantopus spiralis</i>	Tèt Nèg.		* <i>Cordia polycephala</i>		
<i>Rolandra fruticosa</i>	Tèt Nèg.		<i>Cordia reticulata</i>	Sip.	Less. Ant. endemic
<i>Sonchus oleraceus</i>		Alien	<i>Cordia sebestena</i>		Alien
<i>Sphagneticola trilobata</i>	Venvenn Kawayib.		<i>Cordia sulcata</i>	Sip Blan.	
<i>Spilanthes urens</i>			<i>Heliotropium angiospermum</i>	Kwèp Kodenn.	
<i>Struchium sparganophorum</i>			<i>Heliotropium curassavicum</i>		
<i>Synedrella nodiflora</i>			<i>Heliotropium indicum</i>		
<i>Tithonia diversifolia</i>		Alien	<i>Heliotropium ternatum</i>		
<i>Tithonia rotundifolia</i>		Alien	<i>Tournefortia bicolor</i>		
<i>Tridax procumbens</i>			<i>Tournefortia filiflora</i>		Caribbean endemic
<i>Verbesina gigantea</i>			<i>Tournefortia volubilis</i>		
<i>Vernonia arborescens</i>			Brassicaceae		
<i>Vernonia cinerea</i>		Alien	<i>Cardamine flexuosa</i>		Alien
<i>Wedelia calycina</i>	Bwa Sousouwi. Bwa Sòlèy.		<i>Lepidium virginicum</i>		Alien
* <i>Wulffia baccata</i>			<i>Nasturtium officinale</i>	Kouso. Water Cress.	Alien
<i>Zinnia elegans</i>		Alien	Bromeliaceae		
Balanophoraceae			<i>Aechmea lingulata</i>	Kawata.	
<i>Helosis cayennensis</i>			<i>Aechmea smithiorum</i>	Kawata.	Less. Ant. endemic
Balsaminaceae			<i>Billbergia pyramidalis</i>		Alien
<i>Impatiens balsamina</i>	Busy Lizzie.	Alien	<i>Bromelia karatas</i>	Kawata.	
<i>Impatiens walleriana</i>	Busy Lizzie.	Alien	<i>Catopsis floribunda</i>	Kawata.	
Basellaceae			<i>Guzmania lingulata</i>	Kawata.	
<i>Anredera leptostachys</i>	Djéwi Tout.		<i>Guzmania megastachya</i>	Kawata.	Caribbean endemic
<i>Basella alba</i>	Zèpina. Spinach.	Alien	<i>Guzmania plumieri</i>	Kawata.	Less. Ant. endemic
Begoniaceae			<i>Pitcairnia angustifolia</i>	Kawata.	Caribbean endemic
<i>Begonia humilis</i>			<i>Tillandsia fasciculata</i>	Kawata.	
<i>Begonia vincentiana</i>	Bread and Cheese.	Less. Ant. endemic	<i>Tillandsia polystachya</i>	Kawata.	
Bignoniaceae			<i>Tillandsia recurvata</i>		
<i>Amphilophium paniculatum</i>			<i>Tillandsia tenuifolia</i>		
<i>Crescentia cujete</i>	Kalbas.		<i>Tillandsia usneoides</i>		
<i>Cydista aequinoctialis</i>			<i>Tillandsia utriculata</i>	Kawata.	
<i>Macfadyena uncata</i>			<i>Vriesea antillana</i>		Less. Ant. endemic
<i>Macfadyena unguis-cati</i>			<i>Werahia ringens</i>	Kawata.	
<i>Spathodea campanulata</i>	African Tulip Tree.	Alien	Burmanniaceae		
<i>Tabebuia heterophylla</i>	Pòwyé. White Cedar.		<i>Gymnosiphon niveus</i>		Caribbean endemic
<i>Tabebuia pallida</i>	Pòwyé. White Cedar.	Less. Ant. endemic	Burseraceae		
<i>Tanaecium crucigerum</i>			<i>Bursera simaruba</i>	Gonmyé Modi.	
<i>Tecoma stans</i>		Alien	<i>Dacryodes excelsa</i>	Gonmyé.	Caribbean endemic
Boraginaceae			<i>Protium attenuatum</i>	Lansan.	Less. Ant. endemic

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Scientific name	Common names	Status	Scientific name	Common names	Status
Cactaceae			<i>Licania ternatensis</i>	Bwa Dimas.	Less. Ant. endemic
<i>Acanthocereus tetragonus</i>	Tèt Anglès.		Cleomaceae		
<i>Melocactus intortus</i>		Caribbean endemic	<i>Cleome aculeata</i>		Alien
<i>Opuntia dillenii</i>	Watjèt.		<i>Cleome gynandra</i>		Alien
<i>Opuntia triacanthos</i>		Caribbean endemic	<i>Cleome rutidosperma</i>		Alien
<i>Pereskia aculeata</i>	Barbados Gooseberry.		<i>Cleome spinosa</i>	Tamadoz Mawon.	
<i>Pilosocereus royenii</i>			<i>Cleome viscosa</i>		Alien
<i>Rhipsalis baccifera</i>			<i>Cleome aculeata</i>		
Campanulaceae			Clusiaceae		
<i>Centropogon berterianus</i>		Less. Ant. endemic	<i>Calophyllum antillanum</i>	Galba.	Caribbean endemic
<i>Hippobroma longiflora</i>		Alien	<i>Chrysochlamys caribaea</i>	Bwa Mang. Palitivyé Wouj.	St. Lucia endemic
<i>Lobelia cirsiifolia</i>		Less. Ant. endemic	<i>Clusia major</i>	Awali.	Less. Ant. endemic
<i>Lobelia cliffortiana</i>			<i>Clusia plukenettii</i>	Awali.	Less. Ant. endemic
<i>Lobelia santa-Lucia</i>		St. Lucia endemic	<i>Marila racemosa</i>	Bwa Pwa.	Less. Ant. endemic
Canellaceae			<i>*Symphonia globulifera</i>		
<i>Canella winterana</i>	Bwa Kannèl.		<i>Tovomita plumieri</i>	Palitivyé Jòn.	Less. Ant. endemic
Cannaceae			Colchicaceae		
<i>Canna indica</i>	Toloman.	Alien	<i>Gloriosa superba</i>		Alien
<i>Canna glauca</i>			Combretaceae		
Capparaceae			<i>Buchenavia tetraphylla</i>	Zolivyé.	
<i>Capparis baducca</i>			<i>Conocarpus erectus</i>	Paltivyé Wouj.	
<i>Capparis cynophallophora</i>	Black Willow.		<i>Laguncularia racemosa</i>	Manng Blan. Paltivyé.	
<i>Capparis flexuosa</i>			<i>Quisqualis indica</i>		Alien
<i>Capparis hastata</i>			<i>Terminalia catappa</i>	Zamann. Almond.	Alien
<i>Capparis indica</i>	Bwa Puant.		Commelinaceae		
<i>*Capparis odoratissima</i>		Less. Ant. endemic	<i>Callisia filiformis</i>		
<i>Morisonia americana</i>			<i>Callisia fragrans</i>		Alien
Caricaceae			<i>Callisia repens</i>		
<i>Carica papaya</i>	Papay. Papaya.	Alien	<i>Commelina diffusa</i>	Zèb Gwa.	
Caryophyllaceae			<i>Commelina erecta</i>	Zèb Gwa.	
<i>Drymaria cordata</i>			<i>Cyanotis cristata</i>		Alien
Celastraceae			<i>Gibasis geniculata</i>		
<i>Crossopetalum rhacoma</i>			<i>Tradescantia pallida</i>		Alien
<i>Elaeodendron xylocarpum</i>			<i>Tradescantia spathacea</i>	Moses-in-the-Cradle.	Alien
<i>Gyminda latifolia</i>			<i>Tradescantia zebrina</i>		Alien
<i>Hippocratea volubilis</i>			<i>Tripogandra serrulata</i>		
<i>Maytenus guyanensis</i>			Connaraceae		
<i>Maytenus laevigata</i>		Caribbean endemic	<i>Rourea surinamensis</i>		
<i>Schaefferia frutescens</i>			Convolvulaceae		
Chloranthaceae			<i>*Convolvulus nodiflorus</i>		
<i>Hedyosmum arborescens</i>			<i>Cuscuta americana</i>	Lyenn San Pyè.	
Chrysobalanaceae			<i>Evolvulus antillanus</i>		Caribbean endemic
<i>Chrysobalanus cuspidatus</i>	Kaka Wat.	Less. Ant. endemic	<i>Evolvulus convolvuloides</i>		
<i>Chrysobalanus icaco</i>	Ponm Zikak. Fatpòk.		<i>Evolvulus nummularius</i>		
<i>Hirtella pendula</i>	Pann Zòwèy. Zikak Fwans.	Less. Ant. endemic	<i>Ipomoea asarifolia</i>		Alien
<i>Hirtella triandra</i>			<i>Ipomoea batatas</i>		Alien
<i>Licania leucosepala</i>			<i>Ipomoea cairica</i>		Alien

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<i>Ipomoea carnea</i>		Alien	<i>Juniperus barbadensis</i>	Pencil Cedar.	Less. Ant. endemic
<i>Ipomoea hederifolia</i>			Cyclanthaceae		
<i>Ipomoea imperati</i>			<i>Asplundia insignis</i>		Less. Ant. endemic
<i>Ipomoea nil</i>			<i>Asplundia rigida</i>	Sidjinn.	Less. Ant. endemic
<i>Ipomoea obscura</i>			<i>Cyclanthus bipartitus</i>		
<i>Ipomoea ochracea</i>		Alien	Cymodoceaceae		
<i>Ipomoea pes-caprae</i>	Patat Bòd Lanmè.		<i>Syringodium filiforme</i>	Manatee Grass.	
<i>Ipomoea quamoclit</i>		Alien	Cyperaceae		
<i>Ipomoea repanda</i>		Caribbean endemic	<i>Abildgaardia ovata</i>		
<i>Ipomoea setifera</i>	Patat Mawon.		<i>Bulbostylis antillana</i>		Caribbean endemic
<i>Ipomoea tiliacea</i>	Lyenn Dous.		<i>Carex polystachya</i>		
* <i>Ipomoea triloba</i>		Caribbean endemic	* <i>Cladium jamaicense</i>		
<i>Ipomoea violacea</i>			<i>Cyperus alopecuroides</i>		
<i>Ipomoea philomega</i>			<i>Cyperus articulatus</i>	Gwenn Djiné.	
<i>Jacquemontia pentanthos</i>			<i>Cyperus compressus</i>		
<i>Jacquemontia solanifolia</i>		Caribbean endemic	<i>Cyperus digitatus</i>		
<i>Merremia aegyptia</i>			<i>Cyperus elegans</i>		
<i>Merremia dissecta</i>	Noyò.		<i>Cyperus esculentus</i>		
<i>Merremia quinquefolia</i>			* <i>Cyperus hermaphroditus</i>		
<i>Merremia tuberosa</i>		Alien	<i>Cyperus involucratus</i>		Alien
<i>Merremia umbellata</i>			<i>Cyperus iria</i>		Alien
<i>Operculina hamiltonii</i>			<i>Cyperus laxus</i>		
<i>Poranopsis paniculata</i>		Alien	<i>Cyperus ligularis</i>		
<i>Stictocardia tiliifolia</i>		Alien	<i>Cyperus luzulae</i>		
<i>Turbina corymbosa</i>		Alien	<i>Cyperus odoratus</i>		
Costaceae			<i>Cyperus planifolius</i>		
<i>Costus arabicus</i>			<i>Cyperus polystachyos</i>		
<i>Costus scaber</i>		Alien	<i>Cyperus rotundus</i>		
<i>Costus speciosus</i>		Alien	<i>Cyperus sphaclatus</i>		
<i>Costus spicatus</i>		Alien	<i>Cyperus surinamensis</i>		
Crassulaceae			<i>Cyperus aggregatus</i>		
<i>Bryophyllum pinnatum</i>	Kawakté Lézòm. Leaf-Of-Life.	Alien	<i>Eleocharis flavescens</i>		
Cucurbitaceae			<i>Eleocharis geniculata</i>		
<i>Cayaponia americana</i>		Caribbean endemic	<i>Eleocharis interstincta</i>		
<i>Coccinia grandis</i>		Alien	<i>Eleocharis mutata</i>		
<i>Cucumis melo</i>	Ti Konkonm.	Alien	<i>Eleocharis retroflexa</i>		
<i>Cucumis anguria</i>	Ti Konkonm.	Alien	<i>Fimbristylis complanata</i>		
<i>Cucurbita moschata</i>	Jonmou. Pumpkin.	Alien	<i>Fimbristylis cymosa</i>		
<i>Lagenaria siceraria</i>	Gouj. Squash.	Alien	<i>Fimbristylis dichotoma</i>		
<i>Luffa aegyptiaca</i>	Tochon.	Alien	<i>Fimbristylis ferruginea</i>		
<i>Melothria pendula</i>	Konmonm Kouli.		<i>Fimbristylis littoralis</i>		Alien
<i>Momordica charantia</i>	Konmonm Kouli.	Alien	<i>Fimbristylis quinquangularis</i>		Alien
<i>Psiguria umbrosa</i>			<i>Fuirena umbellata</i>		
<i>Sicydium tannifolium</i>			<i>Kyllinga brevifolia</i>		
Cunoniaceae			<i>Kyllinga polyphylla</i>		Alien
<i>Weinmannia pinnata</i>	Tanmawen Montan.		<i>Kyllinga pumila</i>		
Cupressaceae			<i>Machaerina restioides</i>		Caribbean endemic

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<i>Rhynchospora ciliata</i>			<i>Croton guildingii</i>	Ti Bonm Wouj.	
<i>Rhynchospora contracta</i>			<i>Croton hircinus</i>	Ti Bonm Lélé.	
<i>Rhynchospora holoschaenoides</i>			* <i>Croton hirtus</i>		
<i>Rhynchospora longifolia</i>			<i>Croton lobatus</i>		
<i>Rhynchospora marisculus</i>			<i>Croton niveus</i>		
<i>Rhynchospora polyphylla</i>			<i>Dalechampia scandens</i>		
<i>Rhynchospora radicans</i>			<i>Euphorbia articulata</i>		Caribbean endemic
<i>Rhynchospora tenerrima</i>			<i>Euphorbia cyathophora</i>		Alien
<i>Rhynchospora tenuis</i>			<i>Euphorbia dussii</i>		Less. Ant. endemic
<i>Scleria latifolia</i>	Zèb A Kouto.		<i>Euphorbia graminea</i>		Alien
<i>Scleria lithosperma</i>			<i>Euphorbia heterophylla</i>		
<i>Scleria melaleuca</i>	Zèb A Kouto.		<i>Euphorbia hirta</i>	Zeb Malnonmen.	
<i>Scleria microcarpa</i>	Zèb A Kouto.		<i>Euphorbia hypericifolia</i>		
<i>Scleria mitis</i>	Zèb A Kouto.		<i>Euphorbia hyssopifolia</i>		
<i>Scleria scindens</i>	Zèb A Kouto.		<i>Euphorbia lasiocarpa</i>		
<i>Scleria secans</i>	Zèb A Kouto.		<i>Euphorbia mesembrianthemifolia</i>		
Dichapetalaceae			<i>Euphorbia oerstediana</i>		
<i>Tapura latifolia</i>	Bwa Kòt Wouj.	Less. Ant. endemic	<i>Euphorbia ophthalmica</i>		
Dilleniaceae			<i>Euphorbia prostrata</i>		
<i>Pinzona coriacea</i>	Lyenn Chasè.		<i>Euphorbia serpens</i>		
Dioscoraceae			<i>Euphorbia thymifolia</i>		
<i>Dioscorea alata</i>	Bandja.	Alien	<i>Euphorbia tithymalooides</i>		Alien
<i>Dioscorea altissima</i>			<i>Gymnanthes hypoleuca</i>	Bwa Sadin.	
<i>Dioscorea polygonoides</i>	Yanm Matwiten Djab.		<i>Hevea brasiliensis</i>	Rubber Tree.	Alien
Ebenaceae			<i>Hippomane mancinella</i>	Medsinnyé Modi.	
<i>Diospyros revoluta</i>	Babawa.	Caribbean endemic	<i>Hura crepitans</i>		Alien
Elaeocarpaceae			<i>Jatropha gossypifolia</i>	Zèb Zòtòlan.	
<i>Sloanea dentata</i>		Less. Ant. endemic	<i>Jatropha integerrima</i>		Alien
<i>Sloanea caribaea</i>	Chatannyé.		<i>Jatropha multifida</i>		Alien
Erythroxylaceae			<i>Plukenetia volubilis</i>		
<i>Erythroxylum havanense</i>	Bwa Vinet.		* <i>Richeria grandis</i>		Caribbean endemic
<i>Erythroxylum squamatatum</i>	Bwa Gwiv.		<i>Ricinus communis</i>		Alien
Euphorbiaceae			<i>Sapium caribaeum</i>	Lagli.	Less. Ant. endemic
<i>Acalypha alopecuroides</i>			<i>Tragia volubilis</i>		
<i>Acalypha arvensis</i>			Fabaceae-Caesalpinioideae		
<i>Acalypha elizabethiae</i>		St. Lucia endemic	<i>Bauhinia monandra</i>		Alien
<i>Acalypha indica</i>		Alien	<i>Bauhinia multinervia</i>		Alien
<i>Acalypha poiretii</i>		Alien	<i>Caesalpinia bonduc</i>	Kannik.	
* <i>Actinostemon caribaeus</i>		Caribbean endemic	<i>Caesalpinia pulcherrima</i>	Flè Makata.	Alien
<i>Argythamnia polygama</i>			<i>Chamaecrista glandulosa</i>	Ti Tanmawen.	Caribbean endemic
<i>Bernardia corensis</i>			<i>Chamaecrista nictitans</i>		
<i>Bernardia laurentii</i>		St. Lucia endemic	* <i>Chamaecrista obcordata</i>		Caribbean endemic
<i>Caperonia palustris</i>			* <i>Crudia glaberrima</i>		
* <i>Cnidocolus urens</i>			<i>Delonix regia</i>	Flanboyan.	Alien
<i>Croton bixoides</i>	Ti Bonm Blan. Gwo Bonm.	Caribbean endemic	<i>Haematoxylum campechianum</i>	Kanpèch.	
<i>Croton corylifolius</i>			<i>Hymenaea courbaril</i>	Koubawi. Stinking Toe Tree.	
<i>Croton flavens</i>	Ti Bonm Koupayou.		<i>Peltophorum pterocarpum</i>		Alien

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<i>Senna alata</i>	Kasialata.	Alien	<i>Desmodium triflorum</i>		
<i>Senna bicapsularis</i>	Kaka Bétjé. Soumatjé.		<i>Desmodium velutinum</i>		Alien
<i>Senna hirsuta</i>			<i>Dussia martinicensis</i>	Ponmyé. Bwa Gamel.	
<i>Senna obtusifolia</i>	Soumatjé.		<i>Erythrina fusca</i>	Mòtèl.	Alien
<i>Senna occidentalis</i>	Kafé Zèpyant.		<i>Erythrina poeppigiana</i>	Mòtèl.	Alien
<i>Senna siamea</i>		Alien	<i>Erythrina corallodendron</i>	Mòtèl.	
<i>Senna sophera</i>			<i>Flemingia strobilifera</i>	Zèb Sèk.	Alien
<i>Swartzia caribaea</i>	Kas. Miskad Mawon.	Less. Ant. endemic	<i>Galactia longiflora</i>		Less. Ant. endemic
<i>Tamarindus indica</i>	Tamarind.Tanmawen.	Alien	<i>Galactia rubra</i>		Less. Ant. endemic
Fabaceae-Faboideae			<i>Gliricidia sepium</i>	Glory Cedar.	Alien
<i>Abrus precatorius</i>	Gwenn Légliz.	Alien	<i>Indigofera hirsuta</i>		Alien
<i>Aeschynomene americana</i>			<i>Indigofera suffruticosa</i>	La Indigo.	
<i>Aeschynomene evenia</i>			<i>Indigofera tinctoria</i>	La Indigo.	Alien
<i>Aeschynomene sensitiva</i>			<i>*Indigofera spicata</i>		Alien
<i>Aeschynomene viscidula</i>			<i>Lablab purpureus</i>	Pwa Boukousou. Pwa Senm.	Alien
<i>Alysicarpus vaginalis</i>		Alien	<i>Lonchocarpus heptaphyllus</i>	Savonnèt Gwan Fey.	
<i>Andira sapindoides</i>		Less. Ant. endemic	<i>Lonchocarpus punctatus</i>	Ti Savonnèt.	
<i>Cajanus cajan</i>	Pwa Angòl. Pigeon Pea.	Alien	<i>Machaerium lunatum</i>		
<i>Calopogonium caeruleum</i>			<i>Macroptilium atropurpureum</i>		
<i>Calopogonium mucunoides</i>	Pwa Blé.		<i>Macroptilium lathyroides</i>		
<i>Canavalia campylocarpa</i>	Pwa Agoul.		<i>Mucuna pruriens</i>	Pwa Gwaté. Gwenn Zyé Bouwik.	Alien
<i>Canavalia rosea</i>	Sea Bean.		<i>Mucuna pruriens</i>	Kafé Gwo Bouwo. Kafé Mal Kochon.	Alien
<i>Centrosema plumieri</i>			<i>Mucuna sloanei</i>	Pwa Gwat. Gwenn Zyé Bouwik.	
<i>Centrosema virginianum</i>			<i>Mucuna urens</i>	Pwa Gwat. Gwenn Zyé Bouwik.	
<i>Centrosema pubescens</i>			<i>Neonotonia wightii</i>		Alien
<i>Chaetocalyx scandens</i>			<i>Ormosia monosperma</i>	Dédéfouden. Pwa Bwa Wawi.	
<i>Clitoria falcata</i>				Gwenn Zyé Bouwik.	
<i>Clitoria ternatea</i>		Alien	<i>Pachyrhizus erosus</i>	Yam Bean.	
<i>Coursetia caribaea</i>			<i>Phaseolus lunatus</i>	Pwa Chous. Pwa Senm. Lima Bean.	Alien
<i>Crotalaria incana</i>	Chakchak.		<i>Piscidia carthagenensis</i>	Bwa Gulo.	
<i>Crotalaria lotifolia</i>	Chakchak.		<i>Pterocarpus officinalis</i>	Swamp Redwood.	
<i>Crotalaria pallida</i>	Chakchak.	Alien	<i>Pueraria phaseoloides</i>	Kudzu.	Alien
<i>Crotalaria retusa</i>	Chakchak.		<i>Rhynchosia minima</i>		
<i>Crotalaria spectabilis</i>	Chakchak.	Alien	<i>Rhynchosia phaseoloides</i>		
<i>*Crotalaria stipularia</i>			<i>Sesbania sericea</i>		Alien
<i>Crotalaria zanzibarica</i>		Alien	<i>Sophora tomentosa</i>		
<i>Crotalaria verrucosa</i>		Alien	<i>Stylosanthes guianensis</i>		Alien
<i>Dalbergia ecastaphyllum</i>			<i>Stylosanthes hamata</i>		
<i>Dalbergia monetaria</i>			<i>Tephrosia cinerea</i>		
<i>Desmodium adscendens</i>			<i>Tephrosia noctiflora</i>		Alien
<i>Desmodium axillare</i>			<i>*Tephrosia candida</i>		Alien
<i>Desmodium barbatum</i>	Pistach Mawon.		<i>Tephrosia senna</i>		
<i>Desmodium incanum</i>	Sweethearts.		<i>Teramnus labialis</i>		
<i>Desmodium incanum</i>			<i>Vigna hosei</i>	Ti Pwa Jòn.	Alien
<i>Desmodium procumbens</i>			<i>Vigna luteola</i>	Pwa Zombi.	
<i>Desmodium scorpiurus</i>			<i>Vigna unguiculata</i>		Alien
<i>Desmodium tortuosum</i>			<i>Zornia microphylla</i>		Caribbean endemic

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Fabaceae-Mimosoideae			<i>Thalassia testudinum</i>	Turtle Grass.	
<i>Acacia nilotica</i>	Zakasya.	Alien	Hypoxidaceae		
<i>Adenantha pavonina</i>	Dalmawi.	Alien	<i>Curculigo scorzonrifolia</i>		
<i>Calliandra calothyrsus</i>		Alien	<i>Hypoxis decumbens</i>		
<i>Calliandra slaneae</i>	Minizyé. Myann Fwans.	Less. Ant. endemic	Iridaceae		
<i>Calliandra tergemina</i>	Bwa Patat. Bwa (Lyenn) Myan.		<i>Eleutherine bulbosa</i>		
<i>*Calliandra purpurea</i>		(dubious id)	<i>Trimezia martinicensis</i>	Koko Chat.	
<i>Desmanthus virgatus</i>			Lamiaceae		
<i>Entada polystachya</i>	Manyòk Chapèl.		<i>Clerodendrum aculeatum</i>		
<i>Inga ingoides</i>	Kakoli.		<i>Clerodendrum chinense</i>		Alien
<i>Inga laurina</i>	Pwa Dou.		<i>Clerodendrum indicum</i>	Zèb A Lonng Kou.	Alien
<i>Leucaena leucocephala</i>		Alien	<i>Clerodendrum paniculatum</i>		Alien
<i>Mimosa camporum</i>			<i>Clerodendrum x speciosum</i>		Alien
<i>Mimosa casta</i>	Kwòk Chyen.		<i>Gmelina philippensis</i>		Alien
<i>Mimosa ceratonia</i>	Kwòk Chyen.		<i>Hyptis atrorubens</i>		
<i>Mimosa debilis</i>			<i>Hyptis capitata</i>		
<i>Mimosa pigra</i>		Alien	<i>Hyptis mutabilis</i>		
<i>Mimosa pudica</i>	Mari Hont. Ti Mari.		<i>Hyptis pectinata</i>		
<i>Mimosa quadrivalvis</i>	Schrankia Leptocarpa De Candolle.		<i>Hyptis suaveolens</i>		
<i>Neptunia plena</i>			<i>Hyptis verticillata</i>		
<i>Pithecellobium jupunba</i>	Dalmawi.		<i>Leonotis nepetifolia</i>	Gwo Ponpon.	Alien
<i>Pithecellobium unguis-cati</i>	Bebel.		<i>Leonurus japonicus</i>		Alien
<i>Samanea saman</i>	Masav. Saman.	Alien	<i>*Leucas martinicensis</i>		
<i>Senegalia riparia</i>	Zanmouwèt.		<i>Marsipianthes chamaedrys</i>	Konmonmi Mawon.	
<i>Senegalia tamarindifolia</i>			<i>Ocimum basilicum</i>	Bazilik.	Alien
<i>Vachellia farnesiana</i>	Zakasya.		<i>Ocimum campechianum</i>	Fonbwazen.	
<i>Vachellia macracantha</i>	Zakasya.		<i>Ocimum gratissimum</i>	Bwa Gazon. (Mal) Fonbwazen.	Alien
Gentianaceae			<i>Plectranthus amboinicus</i>	Gwo Dite.	
<i>Encostema verticillatum</i>	Lanng Poul.		<i>Pogostemon cablin</i>	Patchouli.	Alien
<i>Voyria aphylla</i>			<i>Salvia lamiifolia</i>		Less. Ant. endemic
<i>Voyria tenella</i>			<i>Salvia micrantha</i>		
Gesneriaceae			<i>Salvia occidentalis</i>	Zo Kayal.	
<i>Alloplectus cristatus</i>			<i>Scutellaria purpurascens</i>		
<i>Besleria filipes</i>		Less. Ant. endemic	<i>Solenostemon scutellarioides</i>	Coleus.	Alien
<i>Besleria lutea</i>		Caribbean endemic	Lauraceae		
<i>Columnea scandens</i>			<i>Aniba bracteata</i>	Lowyé Jòn.	
<i>Gesneria ventricosa</i>		Caribbean endemic	<i>Aniba ramageana</i>	Lowyé Kannèl.	Less. Ant. endemic
<i>Nauticalyx melittifolius</i>		Caribbean endemic	<i>Beilschmiedia pendula</i>	Lowyé Wouj.	
<i>Seemanian sylvatica</i>		Alien	<i>Cassytha filiformis</i>	Lyenn San Pyè.	
Heliconiaceae			<i>Cinnamomum elongatum</i>		Caribbean endemic
<i>Heliconia bihai</i>	Balizyé.		<i>Cinnamomum verum</i>	Kannèl. Cinnamon.	Alien
<i>Heliconia caribaea</i>	Balizyé.	Caribbean endemic	<i>Endlicheria sericea</i>	Lowyé Fè.	
<i>Heliconia psittacorum</i>	Bird-Of-Paradise.	Alien	<i>Licaria sericea</i>		Less. Ant. endemic
<i>Heliconia wagneriana</i>		Alien	<i>Nectandra coriacea</i>	Lowyé Gwi.	
Hydrocharitaceae			<i>Nectandra membranacea</i>	Lowyé Sann. Lowyé Gwan Fey.	Caribbean endemic
<i>Egeria densa</i>		Alien	<i>Nectandra patens</i>		Caribbean endemic
<i>Limnium laevigatum</i>			<i>Ocotea cernua</i>	Lowyé Gwo Gwenn. Lowyé Ti Fèy.	

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<i>Ocotea eggersiana</i>	Lowyé Ti Fèy.	Less. Ant. endemic	<i>Guazuma ulmifolia</i>	Bwa Lonm.	
<i>Ocotea falcata</i>		Less. Ant. endemic	<i>Herissantia crispa</i>		
<i>Ocotea imrayana</i>		Less. Ant. endemic	<i>Malachra alceifolia</i>		
<i>Ocotea jacquini</i>	Lowyé Gwo Gwenn.	Less. Ant. endemic	* <i>Malachra capitata</i>		
<i>Ocotea leucoxylon</i>	Lowyé Mabwé.		<i>Malachra fasciata</i>		
<i>Persea urbaniana</i>	Lowyé Zabòka.	Caribbean endemic	<i>Malvastrum americanum</i>		
Lentibulariaceae			<i>Malvastrum coromandelianum</i>		
<i>Utricularia alpina</i>			<i>Malvaviscus penduliflorus</i>		Alien
Linderniaceae			<i>Melochia nodiflora</i>		
<i>Lindernia crustacea</i>		Alien	* <i>Melochia pyramidata</i>		
<i>Lindernia diffusa</i>			<i>Melochia tomentosa</i>		
Loganiaceae			<i>Ochroma pyramidale</i>	Bwa Flo.	
<i>Spigelia anthelmia</i>	Zèb A Vè.		<i>Pavonia paludicola</i>		
Loranthaceae			<i>Pavonia spinifex</i>		
<i>Dendropemon caribaeus</i>	Anho Bwa.	Caribbean endemic	<i>Pseudoabutylon umbellatum</i>		
<i>Psittacanthus americanus</i>	Anho Bwa.		<i>Quararibea turbinata</i>	Bwa Lélé. Swizzlestick Tree.	Caribbean endemic
<i>Psittacanthus martinicensis</i>	Anho Bwa.	Less. Ant. endemic	<i>Sida acuta</i>	Balyé Wonzè.	
Lythraceae			<i>Sida ciliaris</i>		
<i>Ammannia baccifera</i>		Alien	<i>Sida cordifolia</i>		
<i>Ammannia latifolia</i>			<i>Sida glomerata</i>		
<i>Cuphea carthagenensis</i>			<i>Sida jamaicensis</i>		
* <i>Cuphea crudiana</i>		St. Lucia endemic	<i>Sida rhombifolia</i>	Balyé Wonzè.	
* <i>Cuphea micrantha</i>			<i>Sida spinosa</i>		
Magnoliaceae			<i>Sida urens</i>		
<i>Talauma dodecapetala</i>	Bwapen Mawon.	Less. Ant. endemic	<i>Sterculia caribaea</i>	Maho Kochon.	Less. Ant. endemic
<i>Bunchosia polystachia</i>			<i>Talipariti elatum</i>	Blue Mahoe.	Alien
<i>Byrsonima spicata</i>	Bwa Tan (Si).		<i>Talipariti tiliaceum</i>	Maho Mang. Maho Gonbo.	Alien
<i>Byrsonima trinitensis</i>	Bwa Tan Wouj.	Less. Ant. endemic	<i>Thespesia populnea</i>	Maho Bòd Lanmè.	
<i>Heteropterys platyptera</i>	Lyenn Tè.	Less. Ant. endemic	<i>Triumfetta lappula</i>	Tèt Nèg.	
<i>Heteropterys purpurea</i>			<i>Triumfetta rhomboidea</i>		
<i>Malpighia coccigera</i>	Ti Minizyé.	Caribbean endemic	<i>Triumfetta semitriloba</i>	Tèt Nèg.	
<i>Malpighia emarginata</i>	Siwiz. Cherry.		<i>Urena lobata</i>	Pikan Kouzen.	
* <i>Malpighia linearis</i>			<i>Urena sinuata</i>	Pikan Kouzen.	
<i>Stigmaphyllon bannisterioides</i>			<i>Waltheria indica</i>		
<i>Stigmaphyllon convolvulifolium</i>			* <i>Wercklea tulipiflora</i>		Less. Ant. endemic
* <i>Stigmaphyllon emarginatum</i>		Caribbean endemic	* <i>Wissadula contracta</i>		
<i>Stigmaphyllon puberum</i>			Marantaceae		
Malvaceae			<i>Calathea allouia</i>	Topi Tanbou. Koko Tanbou.	
<i>Abelmoschus moschatus</i>	Gonbo Modi.	Alien	<i>Calathea lutea</i>		Alien
<i>Bastardia viscosa</i>			<i>Maranta arundinacea</i>	Mouchas Babad. Djitan. Arrowroot.	Alien
<i>Ceiba pentandra</i>	Fwonmajé.		Marcgraviaceae		
<i>Corchorus aestuans</i>			<i>Marcgravia lineolata</i>		Less. Ant. endemic
<i>Corchorus hirsutus</i>			<i>Marcgravia trinitatis</i>		
<i>Corchorus hirtus</i>			<i>Marcgravia umbellata</i>		Less. Ant. endemic
<i>Corchorus siliquosus</i>			Melastomataceae		
<i>Gossypium hirsutum</i> × <i>barbadense</i> complex	Kòtòn. Kòtòn Wouj. Cotton.	Alien	<i>Aciotis aequatorialis</i>		
			<i>Charianthus alpinus</i>		Less. Ant. endemic

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<i>Clidemia hirta</i>	Kaka Mèl.		<i>Musa textilis</i>	Manila Hemp. Abaca.	Alien
<i>Clidemia umbrosa</i>		Caribbean endemic	Myrsinaceae		
<i>Conostegia icosandra</i>			<i>Ardisia elliptica</i>	Popgun Tree.	Alien
* <i>Henriettea lateriflora</i>		Alien	<i>Ardisia obovata</i>		Caribbean endemic
<i>Henriettia triflora</i>		Less. Ant. endemic	<i>Cybianthus antillanus</i>	Bwa Diwi.	Less. Ant. endemic
<i>Heterotis rotundifolia</i>		Alien	<i>Cybianthus parasiticus</i>		Less. Ant. endemic
<i>Miconia cornifolia</i>	Bwa Kòt. Bwa Savann.	Less. Ant. endemic	<i>Cybianthus rostratus</i>	Bwa Diwi.	Less. Ant. endemic
<i>Miconia furfuracea</i>	Bwa Senn.	Less. Ant. endemic	<i>Myrsine coriacea</i>	Bwa Diwi.	
<i>Miconia globulifera</i>		Less. Ant. endemic	<i>Stylogyne lateriflora</i>	Zabwiko Mawon.	Caribbean endemic
<i>Miconia laevigata</i>		Less. Ant. endemic	<i>Stylogyne canaliculata</i>		Dubious taxon
<i>Miconia luciana</i>	Bwa Senn.	St. Lucia endemic	Myrtaceae		
<i>Miconia mirabilis</i>	Bwa Kòt.		<i>Calyptanthes forsteri</i>	Bwa Di Blas Blan. Bwa Di Fer.	
<i>Miconia racemosa</i>			<i>Calyptanthes elegans</i>		Less. Ant. endemic
<i>Miconia secunda</i>	Bwa Senn.	St. Lucia endemic	<i>Eugenia biflora</i>		
* <i>Miconia striata</i>		Less. Ant. endemic	<i>Eugenia confusa</i>	Bwa Heti.	
* <i>Miconia trichotoma</i>		Caribbean endemic	<i>Eugenia cordata</i>		
<i>Nepsera aquatica</i>			<i>Eugenia greggii</i>		Less. Ant. endemic
<i>Pterolepis glomerata</i>			<i>Eugenia lambertiana</i>		
<i>Tetrazygia angustifolia</i>		Caribbean endemic	<i>Eugenia ligustrina</i>	Bwa Heti.	
<i>Tetrazygia discolor</i>		Less. Ant. endemic	<i>Eugenia monticola</i>	Bwa (Di Bas) Ti Fèy.	
<i>Tibouchina chamaecistus</i>		Less. Ant. endemic	<i>Eugenia pseudopsidium</i>		
<i>Tibouchina pilosa</i>		Alien	<i>Eugenia tapacumensis</i>		
Meliaceae			<i>Eugenia trinitatis</i>		Less. Ant. endemic
<i>Azadirachta indica</i>	Neem.	Alien	<i>Eugenia coffeifolia</i>		
<i>Carapa guianensis</i>			<i>Eugenia duchassaingiana</i>		Less. Ant. endemic
<i>Cedrela odorata</i>	Acajou. Red Cedar.		<i>Eugenia oerstediana</i>	Bwa Di Bas Gwi.	
<i>Guarea glabra</i>	Acajou Gwan Bwa.		<i>Marlierea guildingiana</i>		
<i>Guarea kunthiana</i>			<i>Myrcia antillana</i>	Bwa Di Bas Wouj.	Less. Ant. endemic
<i>Guarea macrophylla</i>	Bwa Di Woz.		<i>Myrcia citrifolia</i>	Bwa Gwiyé . Blackberry.	
<i>Melia azedarach</i>	Chinaberry.	Alien	<i>Myrcia deflexa</i>	Bwa Kwéyòl.	
<i>Trichilia pallida</i>			<i>Myrcia fallax</i>	Bwadfè.	
Menispermaceae			<i>Myrcia leptoclada</i>		
<i>Cissampelos pareira</i>	Aymanyad.		<i>Myrcia platyclada</i>		
<i>Hyperbaena domingensis</i>			<i>Myrcia ramageana</i>		Less. Ant. endemic
Molluginaceae			<i>Myrcia splendens</i>	Bwa (Di Bas) Ti Fèy.	
<i>Mollugo nudicaulis</i>		Alien	<i>Myrcianthes fragrans</i>		
<i>Siparuna sanctae-luciae</i>	Bwa Kaka.	St. Lucia endemic	<i>Myrciaria floribunda</i>		
Moraceae			<i>Pimenta racemosa</i>	Bwaden. Bay Leaf.	
<i>Castilla elastica</i>	Kaochou. Rubber Tree.	Alien	<i>Plinia pinnata</i>		
<i>Ficus americana</i>	Fijé Ti Fèy.		<i>Psidium guajava</i>	Gwiyav. Guava.	
<i>Ficus citrifolia</i>	Fijé.		<i>Psidium sartorianum</i>		
<i>Ficus insipida</i>	Fijé.		<i>Siphoneugena densiflora</i>		
<i>Ficus nymphaeifolia</i>	Fijé.		<i>Syzygium cumini</i>	Java Plum.	Alien
<i>Ficus pumila</i>		Alien	<i>Syzygium jambos</i>	Ponm Woz.	Alien
<i>Ficus trigonata</i>	Fijé.		Nyctaginaceae		
<i>Maclura tinctoria</i>	Bwa Dowanj.		<i>Boerhavia coccinea</i>	Patagon.	
Musaceae			<i>Boerhavia diffusa</i>	Patagon.	

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<i>*Boerhavia erecta</i>			<i>Ionopsis utricularioides</i>		
<i>Guapira fragrans</i>	Mapou.		<i>Isochilus linearis</i>		
<i>Guapira suborbiculata</i>	Ti Mapou.	Less. Ant. endemic	<i>Jacquinella globosa</i>		
<i>Mirabilis jalapa</i>	Four o'Clock.	Alien	<i>Leochilus puertoricensis</i>		Caribbean endemic
<i>Pisonia aculeata</i>			<i>*Lepanthes dussii</i>		
Nymphaeaceae			<i>Liparis nervosa</i>		
<i>Nymphaea amazonum</i>	Chapo Dlo. Water Lily.		<i>Malaxis massonii</i>		
<i>Nymphaea ampla</i>	Chapo Dlo. Water Lily.		<i>Maxillaria coccinea</i>		Caribbean endemic
Ochnaceae			<i>Microchilus hirtellus</i>		Caribbean endemic
<i>Ouratea guildingii</i>			<i>Microchilus plantagineus</i>		Caribbean endemic
<i>Sauvagesia erecta</i>			<i>Octomeria graminifolia</i>		Caribbean endemic
Olacaceae			<i>Oeceoclades maculata</i>		Alien
<i>Ximenia americana</i>			<i>Oncidium altissimum</i>		Caribbean endemic
Oleaceae			<i>Pelexia adnata</i>		
<i>Chionanthus compactus</i>	Bwadfè.		<i>Pleurothallis pruinosa</i>		
<i>Forestiera rhamnifolia</i>	Kaka Wavèt.		<i>Pleurothallis ruscifolia</i>		
<i>Jasminum fluminense</i>		Alien	<i>Pleurothallis sieberi</i>		Less. Ant. endemic
<i>Jasminum laurifolium</i>		Alien	<i>*Pleurothallis testifolia</i>		
<i>Ligustrum japonicum</i>		Alien	<i>Polystachya concreta</i>		
Onagraceae			<i>Ponthieva petiolata</i>		Caribbean endemic
<i>Ludwigia erecta</i>	Jiwòf Glo.		<i>Prescottia oligantha</i>		
<i>Ludwigia hyssopifolia</i>	Jiwòf Glo.		<i>Prescottia stachyodes</i>		
<i>Ludwigia octovalvis</i>	Jiwòf Glo.		<i>*Psilochilus macrophyllus</i>		
<i>*Ludwigia leptocarpa</i>			<i>Sacoila lanceolata</i>		
Orchidaceae			<i>Scaphyglottis modesta</i>		
<i>Bletia patula</i>		Alien	<i>Scaphyglottis punctulata</i>		
<i>Brachionidium sherringii</i>		Caribbean endemic	<i>Scaphyglottis dunstervillei</i>		
<i>Cranichis muscosa</i>			<i>Spathoglottis plicata</i>		Alien
<i>Cranichis ovata</i>		Caribbean endemic	<i>Specklinia aristata</i>		
<i>Cyclopogon cranichoides</i>			<i>Spiranthes torta</i>		
<i>Cyclopogon elatus</i>			<i>Stelis scabrida</i>		Less. Ant. endemic
<i>Epidendrum anceps</i>			<i>Trichocentrum cebolleta</i>		
<i>Epidendrum antillanum</i>		Caribbean endemic	<i>Trichocentrum luridum</i>		
<i>Epidendrum boricuarum</i>		Caribbean endemic	<i>Trichosalpinx dura</i>		
<i>Epidendrum carpophorum</i>			<i>Triphora surinamensis</i>		
<i>Epidendrum ciliare</i>	Eye-Lash Orchid.		<i>Vanilla mexicana</i>		
<i>Epidendrum nocturnum</i>			<i>Vanilla planifolia</i>	Vanni. Vanilla.	Alien
<i>Epidendrum pallidiflorum</i>		Less. Ant. endemic	<i>Wulfschlaegelia calcarata</i>		
<i>Epidendrum ramosum</i>			Orobanchaceae		
<i>Epidendrum rigidum</i>			<i>Alectra aspera</i>		
<i>Epidendrum rubroticum</i>		Less. Ant. endemic	Oxalidaceae		
<i>Epidendrum strobiliferum</i>			<i>Oxalis barrelieri</i>		
<i>*Epidendrum miserrimum</i>			<i>Oxalis corniculata</i>	Ti Siwèt.	
<i>Epidendrum revertianum</i>		Less. Ant. endemic	<i>Oxalis debilis</i>		
<i>Eulophia alta</i>	Lonyon Djab.		<i>Oxalis frutescens</i>		
<i>Habenaria alata</i>			Papaveraceae		
<i>Habenaria monorrhiza</i>			<i>Argemone mexicana</i>		

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<i>*Bocconia frutescens</i>			Plantaginaceae		
Passifloraceae			<i>Bacopa monnieri</i>	Kwinin Pavé.	
<i>Passiflora andersonii</i>		Less. Ant. endemic	<i>Mecardonia procumbens</i>		
<i>Passiflora cuneata</i>			<i>Micranthemum umbrosum</i>		
<i>Passiflora edulis</i>	Passion Fruit.	Alien	<i>Plantago major</i>	Planten.	Alien
<i>Passiflora foetida</i>	Kòkian.		<i>Russelia equisetiformis</i>		Alien
<i>Passiflora laurifolia</i>	Ponm Di Lyenn.		<i>Scoparia dulcis</i>	Balyé Dou.	
<i>Passiflora pallida</i>			Plumbaginaceae		
<i>Passiflora quadrangularis</i>	Babadin.	Alien	<i>Plumbago scandens</i>		
<i>Passiflora rubra</i>			Poaceae		
<i>Passiflora serratodigitata</i>			<i>Andropogon bicornis</i>		
<i>Passiflora suberosa</i>			<i>Andropogon glomeratus</i>		
Phyllanthaceae			<i>Antheophora hermaphrodita</i>		
<i>Hieronyma caribaea</i>	Bwa Damand.		<i>Arthrostylidium venezuelae</i>		
<i>Margaritaria nobilis</i>	Bwa Mil Bwanch. Bwa Zo Bèf.		<i>*Arundo donax</i>		Alien
<i>Phyllanthus amarus</i>	Gwenn Anba Fèy Blan.		<i>Axonopus compressus</i>		
<i>Phyllanthus caroliniensis</i>			<i>Bambusa vulgaris</i>		Alien
<i>Phyllanthus niruri</i>			<i>Bothriochloa bladhii</i>		Alien
<i>Phyllanthus urinaria</i>	Gwenn Anba Fèy Blan.	Alien	<i>Bothriochloa pertusa</i>		Alien
Phytolaccaceae			<i>Bouteloua americana</i>		
<i>Petiveria alliacea</i>	Fèy Douvan. Mawi Pouwi.		<i>*Cenchrus brownii</i>		(dubious id)
<i>Phytolacca rivinoides</i>	Lanng Bèf. Agouman (Gwan Bwa).		<i>Cenchrus echinatus</i>		
<i>Rivina humilis</i>			<i>*Cenchrus incertus</i>	Zèb Kolan.	(dubious id)
<i>Trichostigma octandrum</i>			<i>Chloris barbata</i>	Zèb A Bab.	
Pinaceae			<i>Chloris radiata</i>		
<i>Pinus caribaea</i>	Caribbean Pine.	Alien	<i>*Chloris ciliata</i>		
Piperaceae			<i>Chrysopogon zizanioides</i>	Voytivé.	Alien
<i>Peperomia emarginella</i>			<i>Coix lacryma-jobi</i>	Job's Tears.	Alien
<i>Peperomia hernandiifolia</i>			<i>Cymbopogon citratus</i>	Sitonnèl. Lemon Grass.	Alien
<i>*Peperomia hirtella</i>		Less. Ant. endemic	<i>Cynodon dactylon</i>		Alien
<i>Peperomia magnoliifolia</i>			<i>Dactyloctenium aegyptium</i>		Alien
<i>Peperomia myrtifolia</i>		Caribbean endemic	<i>Dichanthium annulatum</i>		Alien
<i>Peperomia nigropunctata</i>			<i>Diectomis fastigiata</i>		
<i>Peperomia obtusifolia</i>			<i>Digitaria insularis</i>		
<i>Peperomia pellucida</i>	Zèb Akouwès.		<i>Digitaria setigera</i>		Alien
<i>Peperomia rotundifolia</i>	Ti Kako.		<i>*Digitaria bicornis</i>		
<i>*Peperomia serpens</i>			<i>*Digitaria longiflora</i>		Alien
<i>Peperomia smithiana</i>		Less. Ant. endemic	<i>Echinochloa colona</i>		
<i>Peperomia tenella</i>			<i>Echinochloa polystachya</i>		
<i>Peperomia trifolia</i>			<i>*Echinochloa guadeloupensis</i>		Caribbean endemic
<i>Peperomia urocarpa</i>			<i>Eleusine indica</i>		Alien
<i>Piper aequale</i>			<i>Eragrostis amabilis</i>		Alien
<i>Piper amalago</i>	Bwa Mal Lèstomak.		<i>Eragrostis cilianensis</i>		Alien
<i>Piper dilatatum</i>	Malenbé. Bwa Mal Lèstomak.		<i>Eragrostis ciliaris</i>		Alien
<i>Piper dussii</i>		Less. Ant. endemic	<i>Eragrostis pilosa</i>		Alien
<i>Piper glabrescens</i>			<i>*Eragrostis prolifera</i>		
<i>Piper peltatum</i>	Chapo Glo.		<i>Eriochloa aristata</i>		

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<i>Gynerium sagittatum</i>	Wozo.		<i>Pharus lappulaceus</i>		
<i>Hymenachne amplexicaulis</i>			<i>Phragmites australis</i>		Alien
<i>Hyparrhenia rufa</i>		Alien	<i>Rottboellia cochinchinensis</i>		Alien
<i>Ichnanthus nemorosus</i>			<i>Schizachyrium brevifolium</i>		
<i>Ichnanthus pallens</i>			<i>Schizachyrium microstachyum</i>		
<i>Isachne disperma</i>		Caribbean endemic	<i>Schizachyrium salzmannii</i>		
<i>Ischaemum rugosum</i>		Alien	<i>Setaria barbata</i>		Alien
<i>Ischaemum timorense</i>		Alien	<i>Setaria parviflora</i>		
<i>Lasiacis divaricata</i>	Ti Banbou. Banbou Fwans.		<i>Setaria setosa</i>		
<i>Lasiacis sorghoidea</i>	Ti Banbou. Banbou Fwans.		<i>*Setaria paniculifera</i>		
<i>Leptochloa fusca</i>			<i>Sorghum halepense</i>		Alien
<i>Leptochloa panicea</i>			<i>Spartina patens</i>		Alien
<i>Leptochloa virgata</i>			<i>Sporobolus indicus</i>		
<i>Lithachne pauciflora</i>			<i>Sporobolus jacquemontii</i>		
<i>Megathyrsus maximus</i>	Zèb Djiné. Guinea Grass.	Alien	<i>Sporobolus tenuissimus</i>		
<i>Melinis repens</i>		Alien	<i>Sporobolus virginicus</i>		
<i>Olyra latifolia</i>			<i>Stenotaphrum secundatum</i>		
<i>Oplismenus hirtellus</i>			<i>Thysanolaena maxima</i>		Alien
<i>Oplismenus hirtellus</i>			<i>Tripsacum andersonii</i>		Alien
<i>Orthoclada laxa</i>			<i>*Urochloa adspersa</i>		
<i>*Panicum hirsutum</i>			<i>Urochloa distachya</i>		
<i>Panicum laxum</i>			<i>Urochloa fusca</i>		
<i>Panicum pilosum</i>			<i>Urochloa mutica</i>		Alien
<i>Panicum trichanthum</i>			<i>Urochloa plantaginea</i>		
<i>Panicum trichoides</i>			<i>Urochloa reptans</i>		Alien
<i>Paspalidium geminatum</i>			Podocarpaceae		
<i>Paspalum arundinaceum</i>			<i>Podocarpus coriaceus</i>	Lowyé Woz.	
<i>Paspalum conjugatum</i>			Polygalaceae		
<i>Paspalum distichum</i>			<i>Polygala paniculata</i>	Diten Manyòk.	
<i>*Paspalum fasciculatum</i>			<i>Securidaca diversifolia</i>	Lyenn Pak.	
<i>Paspalum fimbriatum</i>			<i>Antigonon leptopus</i>		Alien
<i>Paspalum laxum</i>			<i>Coccoloba ascendens</i>		
<i>Paspalum millegrana</i>			<i>Coccoloba dussii</i>		Caribbean endemic
<i>Paspalum nesiotis</i>		Less. Ant. endemic	<i>Coccoloba pubescens</i>	Bwa Gwan Fèy.	Caribbean endemic
<i>*Paspalum notatum</i>			<i>Coccoloba swartzii</i>	Bwa Lanmowi. Wézinyé.	
<i>Paspalum nutans</i>			<i>Coccoloba uvifera</i>	Wézen. Siwiz. Sea Grape.	
<i>Paspalum orbiculatum</i>			<i>Coccoloba venosa</i>		
<i>Paspalum paniculatum</i>			<i>Persicaria glabra</i>		
<i>Paspalum plicatulum</i>			<i>Persicaria punctata</i>		
<i>Paspalum saccharoides</i>			<i>Triplaris americana</i>		Alien
<i>*Paspalum setaceum</i>			Pontederiaceae		
<i>Paspalum urvillei</i>		Alien	<i>Eichhornia crassipes</i>	Water Hyacinth.	Alien
<i>Paspalum vaginatum</i>			Portulacaceae		
<i>Paspalum virgatum</i>			<i>Portulaca halimoides</i>		
<i>Pennisetum purpureum</i>	Elephant Grass.	Alien	<i>Portulaca oleracea</i>	Koupyé.	
<i>Pennisetum setaceum</i>		Alien	<i>Portulaca pilosa</i>	Chouvalyé Wonzé.	
<i>*Pennisetum polystachion</i>		Alien	<i>Portulaca quadrifida</i>		Alien

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<i>Talinum fruticosum</i>			<i>Randia nitida</i>		
<i>Talinum paniculatum</i>			<i>Richardia scabra</i>		
<i>Drypetes glauca</i>		Caribbean endemic	<i>Rondeletia parviflora</i>		Less. Ant. endemic
Rhamnaceae			<i>Rosenbergiodendron formosum</i>		Alien
<i>Colubrina elliptica</i>	Mabi.		<i>Rudgea citrifolia</i>	Bwa Lay.	Less. Ant. endemic
<i>Gouania lupuloides</i>	Lyenn Savon.		<i>Schradera exotica</i>		Caribbean endemic
<i>Krugiodendron ferreum</i>	Bwa Di Fè.		<i>Spermacoce confusa</i>		
<i>Ziziphus mauritiana</i>	Koko Kouli. Dunks.	Alien	<i>Spermacoce tetraquetra</i>		
Rhizophoraceae			<i>Spermacoce densiflora</i>	Ti Makònèt.	
<i>Cassipourea guianensis</i>	Bwa Di Fè. Bwa Lay.		<i>Spermacoce ocymifolia</i>		
<i>Rhizophora mangle</i>	Manng Wouj. Red Mangrove.		<i>Spermacoce ovalifolia</i>	Ti Makònèt.	
Rosaceae			<i>Spermacoce prostrata</i>		
<i>Rubus rosifolius</i>	Fonbwèz.	Alien	<i>Spermacoce remota</i>	Ti Makònèt.	
Rubiaceae			<i>Spermacoce verticillata</i>	Ti Makònèt.	
<i>Chimarrhis cymosa</i>	Bwa Wivyé.		<i>Vangueria madagascariensis</i>	Tanmawen Dezenn.	Alien
<i>Chiococca alba</i>	Kalkan. Kikado.		Ruppiaceae		
<i>Chione venosa</i>	Manba.		<i>Ruppia maritima</i>		
<i>Chomelia fasciculata</i>		Less. Ant. endemic	Ruscaceae		
<i>Diadia virginiana</i>			<i>Sansevieria hyacinthoides</i>	(Both species) Lanng Bèlmè.	Alien
<i>Erithalis fruticosa</i>	Bwa Flanbo.		<i>Sansevieria trifasciata</i>	Mother-In-Law's Tongue	Alien
<i>*Exostema caribaeum</i>			Rutaceae		
<i>Exostema sanctae-Luciae</i>	China.	Less. Ant. endemic	<i>Amyris elemifera</i>		
<i>Fareamea occidentalis</i>	Ti Kafé.		<i>Citrus aurantiifolia</i>	Siton. Lime.	Alien
<i>Genipa americana</i>	Jénipa.		<i>Triphasia trifolia</i>	Sitonèl. Sweet Lime.	Alien
<i>Geophila repens</i>			<i>Zanthoxylum caribaeum</i>	Lépinì Wouj.	
<i>Gonzalagunia spicata</i>			<i>Zanthoxylum flavum</i>	Arkokwa.	
<i>Guettarda crispiflora</i>			<i>*Zanthoxylum martinicense</i>		
<i>Guettarda odorata</i>	Bwa Djèt.		<i>Zanthoxylum microcarpum</i>	Lépinì.	
<i>Guettarda scabra</i>	Bwa Madanm.		<i>Zanthoxylum monophyllum</i>	Lépinì.	
<i>Hillia parasitica</i>	Jasmen Bwa.		<i>Zanthoxylum punctatum</i>		Caribbean endemic
<i>Ixora ferrea</i>	Bwa Dlo Savann Ti Kafé Mawon.		<i>Zanthoxylum spinifex</i>	Bwa Bandé.	
<i>Ixora finlaysoniana</i>		Alien	Sabiaceae		
<i>Malanea macrophylla</i>			<i>Meliosma herbertii</i>		
<i>Margaritopsis microdon</i>	Bwa Genton.		<i>Casearia decandra</i>	Bwa Koko Kawèt.	
<i>Mitracarpus hirtus</i>			<i>*Casearia guianensis</i>		
<i>Morinda citrifolia</i>	Kòsòl Chyenn. Noni.	Alien	<i>*Casearia sylvestris</i>		
<i>Notopleura guadalupensis</i>			<i>Prockia crucis</i>		
<i>Notopleura uliginosa</i>			Santalaceae		
<i>Oldenlandia corymbosa</i>		Alien	<i>Dendrophthora macrostachya</i>	Anho Bwa.	Less. Ant. endemic
<i>Oldenlandia lancifolia</i>		Alien	<i>Phoradendron anceps</i>	Anho Bwa.	
<i>Palicourea crocea</i>	Bwa Kilibwi.		<i>*Phoradendron hexastichum</i>		
<i>Psychotria berteriana</i>			<i>*Phoradendron martinicense</i>		
<i>Psychotria mapourioides</i>			<i>Phoradendron piperoides</i>	Anho Bwa.	
<i>Psychotria muscosa</i>		Less. Ant. endemic	<i>Phoradendron quadrangulare</i>	Anho Bwa.	
<i>Psychotria nervosa</i>	Ti Kafé Mawon.		<i>Phoradendron trinervium</i>	Anho Bwa.	
<i>Psychotria pleeana</i>		Less. Ant. endemic	<i>Phoradendron chrysocladon</i>	Anho Bwa.	
<i>Randia aculeata</i>	Bwa Lans.		<i>Phoradendron tetrapterum</i>	Anho Bwa.	

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Scientific name	Common names	Status	Scientific name	Common names	Status
Sapindaceae			<i>Lycianthes pauciflora</i>		
<i>Allophylus racemosus</i>			<i>Physalis angulata</i>	Pok Pok.	
* <i>Cardiospermum corindum</i>			<i>Physalis pubescens</i>		
<i>Cardiospermum microcarpum</i>			<i>Solanum americanum</i>	Agouman.	
<i>Cupania triquetra</i>			<i>Solanum capsicoides</i>	Ponm Pwézon.	
<i>Cupania americana</i>			<i>Solanum jamaicense</i>		
<i>Dodonaea viscosa</i>			<i>Solanum lanceifolium</i>		
<i>Dodonaea angustifolia</i>			<i>Solanum racemosum</i>		
<i>Exothea paniculata</i>			<i>Solanum torvum</i>	Béléjenn Djab.	
<i>Paullinia cururu</i>	Lyenn Pèsi.		Staphyleaceae		
<i>Paullinia pinnata</i>	Lyenn Pèsi.		<i>Turpinia occidentalis</i>	Bwa Lat.	
<i>Paullinia vespertilio</i>		Less. Ant. endemic	Styracaceae		
Sapotaceae			<i>Styrax glabrus</i>	Sip Zowanj.	
<i>Chrysophyllum argenteum</i>	Bwi. Bwi Kayamit.		Symplocaceae		
<i>Manilkara bidentata</i>	Balata.		<i>Symplocos martinicensis</i>	Bwa Blé. Zolivyé.	
<i>Micropholis crotonoides</i>	Balata.		Theaceae		
<i>Micropholis guyanensis</i>	Fèy Dowé.		<i>Freziera undulata</i>		Less. Ant. endemic
<i>Pouteria multiflora</i>	Pennépis.		<i>Ternstroemia oligostemon</i>	Miwiz.	Caribbean endemic
<i>Pouteria pallida</i>	Balata Chyen.	Less. Ant. endemic	<i>Ternstroemia peduncularis</i>	Zabwiko Pwanti. Zabwiko Blan.	Caribbean endemic
<i>Pouteria semecarpifolia</i>	Kontwévan.	Less. Ant. endemic	Theophrastaceae		
<i>Sideroxylon foetidissimum</i>	Akoma.		<i>Jacquinia arborea</i>	Flanbo Blan.	Caribbean endemic
<i>Sideroxylon obovatum</i>			Thymelaeaceae		
Schlegeliaceae			<i>Daphnopsis americana</i>	Maho Pimen.	
<i>Schlegelia axillaris</i>		Caribbean endemic	<i>Daphnopsis macrocarpa</i>	Maho Pimen Gwan Bwa.	St. Lucia endemic
Schoepfiaceae			Turneraceae		
<i>Schoepfia schreberi</i>			<i>Piriqueta cistoides</i>		
Scrophulariaceae			<i>Turnera subulata</i>	Politician's Plant.	Alien
<i>Bontia daphnoides</i>	Sea Olive.		<i>Turnera ulmifolia</i>		Alien
<i>Capraria biflora</i>	Dité Péyi.		Ulmaceae		
Simaroubaceae			<i>Celtis iguanaea</i>		
<i>Picramnia pentandra</i>	Bwa Moudong.		<i>Trema lamarckiana</i>		
<i>Picrasma excelsa</i>	Sip Amé.		<i>Trema micranthum</i>		
<i>Simarouba amara</i>	Bwa Blan.		<i>Boehmeria ramiflora</i>		
Smilacaceae			<i>Boehmeria nivea</i>	Koko Bel Mennwit. China Grass.	Alien
<i>Smilax guianensis</i>	Boyo Djab.	Less. Ant. endemic	<i>Cecropia schreberiana</i>	Bwa Kannon.	Caribbean endemic
<i>Smilax oblongata</i>	Boyo Djab.	Less. Ant. endemic	<i>Laportea aestuans</i>		
Solanaceae			<i>Phenax sonneratii</i>	Zoti.	Alien
<i>Acnistus arborescens</i>	Bwa Mou Limou.		<i>Pilea caribaea</i>	Zoti Blan.	Less. Ant. endemic
<i>Browallia americana</i>			<i>Pilea inaequalis</i>		Caribbean endemic
<i>Capsicum annum</i>			<i>Pilea involucreta</i>		
<i>Capsicum frutescens</i>	Piman Gwiv. Bird Pepper.	Alien	<i>Pilea microphylla</i>		
<i>Cestrum alternifolium</i>			<i>Pilea nummulariifolia</i>		
<i>Cestrum latifolium</i>			<i>Pilea semidentata</i>		Caribbean endemic
<i>Cestrum laurifolium</i>			<i>Pilea parietaria</i>		
<i>Cestrum megalophyllum</i>			* <i>Urera caracasana</i>		
<i>Datura innoxia</i>			Verbenaceae		
<i>Datura stramonium</i>	Joy Juice.	Alien	<i>Aegiphila martinicensis</i>	Bwa Kabwit.	

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Scientific name	Common names	Status	Scientific name	Common names	Status
<i>Citharexylum spinosum</i>	Bwa Kòtlèt.		<i>Cissus verticillata</i>	Godmò.	Alien
<i>Cornutia pyramidata</i>	Bwa Kasav.		<i>Vitis tiliifolia</i>		Alien
<i>Duranta stenostachya</i>			Zingiberaceae		
<i>Lantana arubensis</i>	Ti Bonbon.		<i>Alpinia zerumbet</i>	Shell Ginger.	Alien
* <i>Lantana involucrata</i>		(dubious id)	<i>Curcuma longa</i>	Tjitima. Turmeric.	Alien
<i>Lantana strigocamara</i>	Jiwòf Flè. Bwa Wa Tou. Pis A Bed.		<i>Curcuma xanthorrhiza</i>	Jenjanm Dou. Kashibou.	Alien
<i>Lantana radula</i>			<i>Hedychium coronarium</i>	Lavann. Lavender.	Alien
<i>Lippia alba</i>	Twa Tas.		<i>Renealmia alpinia</i>		
<i>Petrea volubilis</i>	Lyenn Wid.	Caribbean endemic	<i>Renealmia pyramidalis</i>		Less. Ant. endemic
<i>Phyla fruticosa</i>			* <i>Renealmia occidentalis</i>		
<i>Priva lappulacea</i>	Ti Dayi.		<i>Zingiber zerumbet</i>	Bitter Ginger.	Alien
<i>Stachytarpheta cayennensis</i>	Vèvenn Latjé Wat.		Zygophyllaceae		
<i>Stachytarpheta jamaicensis</i>	Vèvenn Latjé Wat.		<i>Guaicum officinale</i>	Gayak.	
<i>Stachytarpheta urticifolia</i>	Vèvenn Latjé Wat.	Alien	<i>Kallstroemia maxima</i>		
<i>Tectona grandis</i>	Teck. Teak.	Alien	<i>Kallstroemia pubescens</i>		
<i>Vitex divaricata</i>	Bwa Léza.				
Vitaceae					
<i>Cissus obovata</i>	Godmò.	Caribbean endemic			

Table B Ferns and their allies (Pteridophytes) of Saint Lucia

Data from Graveson (2009b)

Family/ Scientific name	Status	Family/ Scientific name	Status	Family/ Scientific name	Status
Anemiaceae		<i>Salpichlaena volubilis</i>		<i>Elaphoglossum latifolium</i>	
<i>Anemia adiantifolia</i>		Cyatheaaceae		<i>Elaphoglossum martinicense</i>	Caribbean endemic
Aspleniaceae		<i>Alsophila imrayana</i>		<i>Elaphoglossum petiolatum</i>	
<i>Asplenium auritum</i>		<i>Alsophila muricata</i>	Less. Ant. endemic	<i>Elaphoglossum plumieri</i>	Caribbean endemic
<i>Asplenium cristatum</i>		<i>Cyathea arborea</i>		<i>Megalastrum subincisum</i>	
<i>Asplenium cuneatum</i>		<i>Cyathea grandifolia</i>		<i>Olfersia cervina</i>	
<i>Asplenium obtusifolium</i>		<i>Cyathea tenera</i>		<i>Polysichopsis muscosa</i>	
<i>Asplenium pumilum</i>		Dennstaedtiaceae		<i>Stigmatopteris rotundata</i>	
<i>Asplenium salicifolium</i>		<i>Dennstaedtia dissecta</i>		Gleicheniaceae	
<i>Asplenium serra</i>		Dennstaedtiaceae		<i>Dicranopteris flexuosa</i>	Less. Ant. endemic
<i>Asplenium serratum</i>		<i>Hypolepis repens</i>		<i>Gleichenella pectinata</i>	
Blechnaceae		<i>Pteridium arachnoideum</i>		<i>Sticherus bifidus</i>	
<i>Blechnum fragile</i>		Dryopteridaceae		Hymenophyllaceae	
<i>Blechnum occidentale</i>		<i>Elaphoglossum apodum</i>		<i>Hymenophyllum fucooides</i>	
<i>Blechnum ryanii</i>	Less. Ant. endemic	<i>Elaphoglossum crinitum</i>		<i>Hymenophyllum hirsutum</i>	
<i>Blechnum serrulatum</i>		<i>Elaphoglossum herminieri</i>		<i>Hymenophyllum lanatum</i>	

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Family/ Scientific name	Status
<i>Hymenophyllum polyanthos</i>	
<i>Trichomanes alatum</i>	Caribbean endemic
<i>Trichomanes angustifrons</i>	
<i>Trichomanes crispum</i>	
<i>Trichomanes hymenoides</i>	
<i>Trichomanes hymenophylloides</i>	
<i>Trichomanes krausii</i>	
<i>Trichomanes lineolatum</i>	
<i>Trichomanes membranaceum</i>	
<i>Trichomanes osmundoides</i>	
<i>Trichomanes pinnatum</i>	
<i>Trichomanes polypodioides</i>	
<i>Trichomanes punctatum</i>	
<i>Trichomanes rigidum</i>	
<i>Trichomanes trigonum</i>	Less. Ant. endemic
Lindsaeaceae	
<i>Lindsaea lancea</i>	
<i>Lindsaea quadrangularis</i>	
<i>Lonchitis hirsuta</i>	
Lomariopsidaceae	
<i>Lomariopsis sorbifolia</i>	Caribbean endemic
<i>Nephrolepis biserrata</i>	
<i>Nephrolepis brownii</i>	Alien
<i>Nephrolepis rivularis</i>	
Lycopodiaceae	
<i>Huperzia acerosa</i>	
<i>Huperzia aqualupiana</i>	
<i>Huperzia dichotoma</i>	
<i>Huperzia linifolia</i>	
<i>Huperzia taxifolia</i>	
<i>Huperzia wilsonii</i>	
<i>Lycopodiella cernua</i>	
Marattiaceae	
<i>Danaea alata</i>	Caribbean endemic
<i>Danaea antillensis</i>	Less. Ant. endemic
Oleandraceae	
<i>Oleandra articulata</i>	
Ophioglossaceae	
<i>Ophioglossum harrisii</i>	
Polypodiaceae	
<i>Campyloneurum brevifolium</i>	

Family/ Scientific name	Status
<i>Campyloneurum cf. angustifolium</i>	
<i>Campyloneurum phyllitidis</i>	
<i>Campyloneurum repens</i>	
<i>Cochlidium seminudum</i>	
<i>Cochlidium serrulatum</i>	
<i>Lellingeria suspensa</i>	
<i>Microgramma lycopodioides</i>	
<i>Microgramma piloselloides</i>	
<i>Micropolypodium taenifolium</i>	Caribbean endemic
<i>Neurodium lanceolatum</i>	
<i>Niphidium crassifolium</i>	
<i>Pecluma pectinata</i>	
<i>Phlebodium aureum</i>	
<i>Pleopeltis astrolepis</i>	
<i>Pleopeltis polypodioides</i>	
<i>Serpocaulon dissimile</i>	
<i>Serpocaulon loriceum</i>	
<i>Serpocaulon triseriale</i>	
<i>Terpsichore asplenifolia</i>	
Psilotaceae	
<i>Psilotum nudum</i>	
Pteridaceae	
<i>Acrostichum aureum</i>	
<i>Acrostichum danaeifolium</i>	
<i>Adiantopsis radiata</i>	
<i>Adiantum fragile</i>	Caribbean endemic
<i>Adiantum latifolium</i>	
<i>Adiantum obliquum</i>	
<i>Adiantum tetraphyllum</i>	
<i>Adiantum villosum</i>	
<i>Ananthacorus angustifolius</i>	
<i>Anetium citrifolium</i>	
<i>Hemionitis palmata</i>	
<i>Pityrogramma calomelanos</i>	
<i>Pityrogramma chrysophylla</i>	Caribbean endemic
<i>Polytaenium dussianum</i>	
<i>Polytaenium feei</i>	
<i>Pteris arborea</i>	
<i>Pteris longifolia</i>	
<i>Pteris tripartita</i>	Alien
<i>Pteris vittata</i>	Alien

Family/ Scientific name	Status
<i>Vittaria lineata</i>	
Saccolomataceae	
<i>Saccoloma inaequale</i>	
Schizaeaceae	
<i>Anemia adiantifolia</i>	
Selaginellaceae	
<i>Selaginella flabellata</i>	
<i>Selaginella plana</i>	Alien
<i>Selaginella rotundifolia</i>	Less. Ant. endemic
<i>Selaginella substipitata</i>	
<i>Selaginella tenella</i>	
Tectariaceae	
<i>Tectaria heracleifolia</i>	
<i>Tectaria incisa</i>	
<i>Tectaria plantaginea</i>	
<i>Tectaria trifoliata</i>	
Thelypteridaceae	
<i>Macrothelypteris torresiana</i>	Alien
<i>Thelypteris balbisii</i>	
<i>Thelypteris clypeolutata</i>	Less. Ant. endemic
<i>Thelypteris decussata</i>	
<i>Thelypteris dentata</i>	Alien
<i>Thelypteris extensa</i>	Alien
<i>Thelypteris germaniana</i>	
<i>Thelypteris glandulosa</i>	
<i>Thelypteris hispidula</i>	Caribbean endemic
<i>Thelypteris nephrodioides</i>	
<i>Thelypteris opposita</i>	
<i>Thelypteris pennata</i>	
<i>Thelypteris poiteana</i>	
<i>Thelypteris reticulata</i>	
<i>Thelypteris sancta</i>	
<i>Thelypteris tetragona</i>	
Woodsiaceae	
<i>Diplazium cristatum</i>	
<i>Diplazium limbatum</i>	
<i>Diplazium striatum</i>	
<i>Hemidictyum marginatum</i>	

Table C Beetles of Saint Lucia

Unpublished data from M. Ivie

Scientific name	Status	Scientific name	Status	Scientific name	Status
Carabidae		<i>Selenophorus sinuatus</i> Gyllenhal		Caribbean endemic	
<i>Aspidoglossa schach</i> (Fabricius)		<i>Selenophorus latior</i> Darlington	Caribbean endemic	Rhysodidae	
<i>Aspidoglossa cribrata</i> Putzeys		<i>Selenophorus striatopunctatus</i> Putzeys		<i>Clinidium n. sp.</i>	Saint Lucia endemic
<i>Clivina (Paraclivina) marginipennis</i> Putzeys	Alien	<i>Selenophorus parvus</i> Darlington	Caribbean endemic	Hydrophilidae	
<i>Clivina (Paraclivina) tuberculata</i> Putzeys	Alien	<i>Selenophorus chalybeus</i> Dejean	Caribbean endemic	<i>Berosus stribalus</i> d'Orchymont	Caribbean endemic
<i>Clivina (Semiclivina) oblita</i> Putzeys		<i>Selenophorus n.sp. nonseriatus</i>	Saint Lucia endemic?	<i>Enochrus bartlettii</i> Short	Caribbean endemic
<i>Halocoryza arenaria</i> (Darlington)		<i>Loxandrus sp. #1 bicolored</i>	?	<i>Hydrophilus intermedius</i> Jac.DuVal	
<i>Microtopus n. sp.</i>		<i>Loxandrus n.sp. #2 black flightless</i>	Saint Lucia endemic	<i>Hydrobiomorpha phallica</i> (d'Orchymont)	
<i>Megastylulus piva</i> Giachino & Sciaky	Saint Lucia endemic	<i>Paratachys (Eotachys) bleoides</i> (Jennel)	Alien	<i>Helochares abbreviatus</i>	
<i>Stylulus isabelae</i> Giachino & Sciaky	Saint Lucia endemic	<i>Paratachys sp. 1</i>		<i>Enochrus aequalis</i> (Sharp)	
<i>Pentagonica maculicornis</i> Bates		<i>Paratachys sp. 2</i>		<i>Dactylosternum abdominalis</i> (Fabricius)	
<i>Pentagonica flavipes</i> LeConte		<i>Paratachys sp. 3</i>		<i>Phaenonotum exstriatum</i> (LeConte)	
<i>Dyscolus luciae</i> (Liebherr)	Saint Lucia endemic	<i>Paratachys sp. 4</i>		<i>Ceryon variegatus</i> Sharp	
<i>Glyptolenus chalybaeus</i> (Dejean)	Alien	<i>Paratachys sp. 5</i>		<i>Paracymus delatus</i> Wooldridge	Caribbean endemic
<i>Anchonoderus humeralis</i> Bates		<i>Paratachys sp. 6</i>		<i>Pelosoma sp.</i>	?
<i>Calleida amethystine</i> (Fabricius)	Alien	<i>Mioptachys n. sp.</i>	Saint Lucia endemic?	<i>Aculomicrus n.sp.</i>	Saint Lucia endemic?
<i>Colliuris sp.</i>		Haliplidae		<i>Omicrus palmarum</i> (Schwarz)	Caribbean endemic
<i>Pachyteles sp.</i>		<i>Haliplus gravidus</i> Aubé		<i>Hydrophidid genus?</i>	
<i>Cicindella suturalis</i> Fabricius		Dytiscidae		<i>Oosternus costatum</i> Sharp	
<i>Brasiella argentata</i> (Fabricius)		<i>Copelatus posticatus</i> Fabricius		<i>Tropisternus lateralis</i> (Fabricius)	
<i>Lebia marginicollis</i> Dejean		<i>Copelatus sp.</i>		<i>Tropisternus sp.</i>	
<i>Lebia sp.</i>		<i>Laccophilus proximus</i> Say		<i>Paracymus confusus</i> Wooldridge	
<i>Apenes marginalis</i> Dejean		<i>Laccophilus sp. not proximus</i>		Histeridae	
<i>Apenes variegata</i> Dejean		<i>Hydrovatus pustulatus</i> Melsheimer		<i>Peromalus sp.</i>	?
<i>Apenes n. sp. Ball and Shpley</i>	Saint Lucia endemic	<i>Megadytes fraternus</i> Sharp		<i>Omalodes sp.</i>	?
<i>Thalpius sp.</i>		<i>Thermonectes basilaris</i> (Harris)		<i>Euspilotus sp. #1</i>	?
<i>Perileptus dentifer</i> Darlington	Caribbean endemic	<i>Celina sp.</i>	?	<i>Euspilotus sp. #2</i>	?
<i>Phloeoxena n. sp.</i>	Saint Lucia endemic?	Noteridae		<i>Bacanius sp. #1</i>	?
<i>Athrostiticus paganus</i> Dejean		<i>Suphisellus binotatus</i> (Fleutiaux & Sallé)	Caribbean endemic	<i>Bacanius? sp. #2</i>	?
<i>Selenophorus alternans</i>		<i>Mesonoterus? sp.</i>	?	<i>Bacanius? sp. #3</i>	?
<i>Selenophorus discopunctatus</i> Dejean		<i>Notomicrus sp.</i>	?	<i>Bacanius? sp. #4</i>	?

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Scientific name	Status
<i>Bacanius? sp. #5</i>	?
<i>Aeletes sp.</i>	?
<i>Teretriosoma sp.</i>	?
<i>Hololepta sp.</i>	?
<i>Hister servus</i> Erichson	
Hydraenidae	
<i>Hydraena guadelupensis</i> <i>d'Orchymont</i>	
Ptiliidae	
<i>Ptiliid # 1+</i>	
<i>Ptiliid # 2</i>	
<i>Ptiliid # 3</i>	
<i>Ptiliid # 4</i>	
Leiodidae	
<i>Zeadolopus sp. #1 smooth striae</i>	Saint Lucia endemic?
<i>Zeadolopus sp. #2 impressed striae</i>	Saint Lucia endemic?
<i>Zeadolopus sp. #3 no striae</i>	Saint Lucia endemic?
<i>Aglyptinus sp. #1 small black</i>	Saint Lucia endemic?
<i>Aglyptinus sp. #2 large brown</i>	Saint Lucia endemic?
<i>Aglyptinus sp. #3 brown w/ setae on elytra</i>	Saint Lucia endemic?
<i>Aglyptinus sp. #4 metallic</i>	Saint Lucia endemic?
<i>Dissochaetus sp.</i>	Saint Lucia endemic?
<i>Creagrophorus sp.</i>	Saint Lucia endemic?
Scydmaenidae	
<i>Scydmaenus sp.</i>	Saint Lucia endemic?
<i>Microscydms sp.</i>	Saint Lucia endemic?
<i>Euconnus sp. 1</i>	Saint Lucia endemic?
<i>Euconnus sp. 2</i>	Saint Lucia endemic?
<i>Euconnus sp. 3</i>	Saint Lucia endemic?
<i>Euconnus sp. 4</i>	Saint Lucia endemic?
<i>Euconnus sp. 5</i>	Saint Lucia endemic?
<i>Euconnus sp. 6</i>	Saint Lucia endemic?
Staphylinidae	
<i>Adinopsis myllaenoides</i> Kraatz	
<i>Atheta conformis</i> Erichson	

Scientific name	Status
<i>Gnyptosoma basalis</i> Cam.	
<i>Gnyptosoma sanctae-luciae</i> Cam.	Saint Lucia endemic
<i>Gyrophaeana oblita</i> Shp.	
<i>Myllaena fragilis</i> Shp.	
<i>Myllaena indefatigabilis</i> Cam.	Saint Lucia endemic
<i>Stethusa lurida</i> Erichson	
<i>Pseudespeson crassulus</i> (Fauvel)	Less. Antill. endemic
<i>Espeson moratus</i> Schauf.	
<i>Lispinus catena</i> Sharp	
<i>Clavilispinus megacephalus</i> (Fauvel)	
<i>Clavilispinus exiguus</i> (Erichson)	
<i>Clavilispinus politus</i> (Sharp)	
<i>Tannea tenellus</i> (Erichson)	
<i>Nacaeus nigrifrons</i> (Chevrolat and Fauvel)	
<i>Thoracophorus exilis</i> (Erichson)	Caribbean endemic
<i>Thoracophorus guadelupensis</i> Cameron	
<i>Thoracophorus simplex</i> Wendeler	Caribbean endemic
<i>Anotylus insignitus</i> (Gravenhorst)	
<i>Carpelimus beattyi</i> Blackwelder	Caribbean endemic
<i>Carpelimus correctus</i> Blackwelder	
<i>Carpelimus flavipes</i> Erichson	
<i>Oxytelus incisus</i> Motschulsky	
<i>Platystethus spiculus</i> Erichson	
<i>Trogactus (Carpelimus) cornucopius</i> Blackwelder	Caribbean endemic
<i>Astenus cinctiventris</i> Shp.	
<i>Lithocharis dorsalis</i> Er.	
<i>Lithocharis limbata</i> Erichson	
<i>Lithocharis secunda</i> Blackwelder	Caribbean endemic
<i>Lithocharis sororcula</i> Kr.	Caribbean endemic
<i>Lathrobium nitidum</i> Erichson	
<i>Medon johni</i> Blackwelder	Caribbean endemic
<i>Scopaeus antennalis</i> Cam.	Caribbean endemic
<i>Scopaeus arena</i> Blackwelder	Saint Lucia endemic

Scientific name	Status
<i>Scopaeus boxi</i> Blackwelder	Saint Lucia endemic
<i>Scopaeus potamus</i> Blackwelder	Saint Lucia endemic
<i>Scopaeus pygmaeus</i> Erichson	Caribbean endemic
<i>Scopobium anthracinum</i> Cam.	Less. Antill. endemic
<i>Stilomedon connexum</i> (Sharp)	
<i>Sunius debilicornis</i> Woll.	
<i>Sunius oblitus</i> Erichson	
<i>Thinoharis exilis</i> (Erichson)	
<i>Thinoharis smithi</i> Cameron	Less. Antill. endemic
<i>Piestus erythropus</i> Erichson	
<i>Piestus penicillatus</i> Dalman	
<i>Piestus pygmaeus</i> Laporte	
<i>Piestus sulcatus</i> Gravenhorst	
<i>Belonuchus amplus</i> Blackwelder	Saint Lucia endemic
<i>Belonuchus mundus</i> Erichson	Less. Antill. endemic
<i>Cafius bistriatus</i> (Erichson)	
<i>Diachus nanus</i> Erichson	
<i>Neobisnius funerulus</i> Cameron	Less. Antill. endemic
<i>Holisus debilis</i> Erichson	Caribbean endemic
<i>Holisus guildingi</i> Erichson	Caribbean endemic
<i>Neobisnius ludicrus</i> Erichson	
<i>Neohypnus (Xantholinus) illucens</i> Erichson	
<i>Philonthus ventralis</i> (Gravenhorst)	
<i>Coproporus cacao</i> Blackwelder	
<i>Coproporus ebonus</i> Blackwelder	Caribbean endemic
<i>Coproporus pulchellus</i> (Erichson)	
<i>Coproporus sharpi</i> Cam.	Less. Antill. endemic
Passalidae	
<i>Passalus unicornis</i> Lepeltier and Audinet-Serville	
<i>Spasalus crenatus</i> (Macleay)	
Trogidae	
<i>Omorgus suberosus</i> (Fabricius)	Alien
Hybosoridae	
<i>Germanostes rufopiceus</i> (Arrow)	Less. Antill. endemic

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Scientific name	Status
<i>Ceratocanthus n.sp.</i>	Saint Lucia endemic
Geotrupidae	
<i>Neoathyreus ?lanei</i> Martínez	
Scarabaeidae	
<i>Aphodius cuniculus</i>	Alien
<i>Nialaphodius nigritus</i>	Alien
<i>Ataenius luteomargo</i>	Alien?
<i>Ataenius attenuator</i>	Alien?
<i>Ataenius liogaster</i>	Alien?
<i>Ataenius morator</i>	Alien?
<i>Ataenius strigicauda</i>	Alien?
<i>Ataenius scutellaris</i>	Alien?
<i>Ataenius sp? beattyi-camenis</i> group	Saint Lucia endemic?
<i>Ataenius carinator</i> Harold	or Alien
<i>Iguazua blackwelderi</i> (Chapin)	
<i>Saprosites exaratus</i> Fleutiaux & Sallé	Less. Antill. endemic
<i>Ateuchus luciae</i> Matthews	Saint Lucia endemic
<i>Pseudocanthon iuanalaoi</i> Matthews	Saint Lucia endemic
<i>Onthophagus gazellae</i> (F.)	Alien
<i>Chalepides barbatus</i> (F.)	
<i>Dynastes hercules reidi</i> Chalumeau	Less. Antill. endemic
<i>Cyclocephala tridentata</i> (F.)	
<i>Cyclocephala melanocephala</i> (F.)	
<i>Tomarus ebenus</i> DeGeer	
<i>Tomarus cuniculus</i> (F.)	
<i>Phileurus valgus</i> (Linnaeus)	
<i>Phileurus didymus</i> (Linnaeus)	
<i>Rutela striata antiqua</i> Ohaus	Less. Antill. endemic
<i>Anomala luciae</i> Blanchard	Less. Antill. endemic
<i>Leucothyreus luciae</i> B33	Saint Lucia endemic
<i>Paragymnetis rudolphi</i> Frölich	Saint Lucia endemic
<i>Phyllophaga blackwelderi</i> Saylor	Saint Lucia endemic
<i>Phyllophaga n. sp.</i>	Saint Lucia endemic
Scirtidae	
<i>Cyphon sp. 1</i>	

Scientific name	Status
<i>Cyphon sp. 2</i>	
<i>Ora sp.1</i>	
<i>Ora sp.2</i>	
<i>Ora sp.3</i>	
<i>Ora sp.4</i>	
<i>Scirtes sp.1</i>	
Buprestidae	
<i>Neotrachys fennahi</i> Théry	Less. Antill. endemic
<i>Acmaeodera villiersi</i> Descarpentiers	Less. Antill. endemic
<i>Polycesta depressa</i> Linn.	Caribbean endemic
<i>Chrysobothris n.sp.</i>	Saint Lucia endemic
<i>Aphanisticus cochinchinae</i>	Alien
<i>Spectralia n.sp.</i>	Saint Lucia endemic?
" <i>Micrasta</i> " <i>uniformis</i>	Caribbean endemic
Elmidae	
<i>Hexanchorus caraibus</i> Coquerel	Less. Antill. endemic
<i>Hexacylloepus smithi</i> (?) Grouvelle	Less. Antill. endemic
<i>Hexacylloepus n. sp.</i>	Saint Lucia endemic
Limnichidae	
<i>Corrinea n.sp.</i>	Saint Lucia endemic?
Heteroceridae	
<i>Tropicus sp.</i>	
Cneoglossidae	
<i>Cneoglossa n.sp.</i>	Saint Lucia endemic
Ptilodactylidae	
<i>Lachnodactyla sp.</i>	Saint Lucia endemic?
<i>Ptilodactyla sp. #1</i>	Saint Lucia endemic?
<i>Ptilodactyla sp. #2</i>	Saint Lucia endemic?
<i>Ptilodactyla sp. #3</i>	Saint Lucia endemic?
<i>Ptilodactyla sp. #4</i>	Saint Lucia endemic?
<i>Ptilodactyla sp. #5</i>	Saint Lucia endemic?
<i>Ptilodactyla sp. #6</i>	Saint Lucia endemic?
<i>Ptilodactyla sp. #7</i>	Saint Lucia endemic?
<i>Ptilodactyla sp. #8</i>	Saint Lucia endemic?
<i>Ptilodactyla sp. #9</i>	Saint Lucia endemic?

Scientific name	Status
<i>Ptilodactyla sp. #10</i>	Saint Lucia endemic?
Chelonariidae	
<i>Chelonarium sp.</i>	
Callirhipidae	
<i>Callirhipis Iherminieri</i> LaPorte	Less. Antill. endemic
Elateridae	
<i>Chalcolepidius validus</i> Candèze	Less. Antill. endemic
<i>Lygelater ignitus</i> Fabricius	
<i>Ignelater luminosus</i> Illiger	Caribbean endemic
<i>Pyrophorus mellifluus</i> Costa	Caribbean endemic?
<i>Pyrophorus mellitus</i> Costa	Saint Lucia endemic?
<i>Lissomus sp.</i>	
<i>Dicrepidius sp. #1</i>	
<i>Dicrepidius sp. #2</i>	
<i>Elaterid #1</i>	
<i>Elaterid #2</i>	
<i>Elaterid #4</i>	
<i>Elaterid #3</i>	
<i>Elaterid #5</i>	
<i>Elaterid #6</i>	
<i>Elaterid #7</i>	
<i>Elaterid #8</i>	
Eucnemidae	
<i>Eucnemid #1</i>	
<i>Eucnemid #2</i>	
<i>Eucnemid #3</i>	
<i>Eucnemid #4</i>	
<i>Eucnemid #5</i>	
<i>Eucnemid #6</i>	
Lampyridae	
<i>Aspisoma insperatum</i> E. Olivier	?
<i>Photinus santaelucia</i> McDermott	Saint Lucia endemic
<i>Aspisoma ignium</i> (L.)	Alien
<i>Lucidota sp.</i>	Saint Lucia endemic
<i>Photuris (? Diurnal)</i>	Saint Lucia endemic

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Scientific name	Status
<i>Photinus sp. #1</i>	Saint Lucia endemic
<i>Rhobopus sp.</i>	Saint Lucia endemic
Lycidae	
<i>Mesopteron sulphureum (Kleine)</i>	Saint Lucia endemic
Cantharidae	
<i>Tylocerus sp.</i>	Saint Lucia endemic
<i>Tytthonyx sp. #1</i>	Saint Lucia endemic
<i>Tytthonyx sp. #2</i>	Saint Lucia endemic
<i>Tytthonyx sp. #3</i>	Saint Lucia endemic
Dermestidae	
<i>Attagenus sp.</i>	
Bostrichidae	
<i>Amphicerus cornutus (Pallas)</i>	Alien
<i>Xylomeira tridens (Fabricius)</i>	Alien
<i>Tetrapriocera longicornis (Olivier)</i>	Alien
<i>Melalgus caribeanus Lesne</i>	Less. Antill. endemic
<i>Lyctus caribea Lesne</i>	Caribbean endemic
<i>Lyctus sp.</i>	Alien
<i>Dinoderus sp.</i>	Alien
Anobiidae	
<i>Ptinus sp.</i>	
<i>Lasioderma sp.</i>	
<i>Protheca sp.</i>	
<i>Tricorynus sp. 1</i>	
<i>Tricorynus sp. 2</i>	
<i>Tricorynus sp. 3</i>	
<i>Petalium sp.</i>	
<i>Cryptoramorphus ? sp.</i>	
<i>Cryptorama sp. 1</i>	
<i>Cryptorama sp. 2</i>	
<i>Cryptorama sp. 3</i>	
<i>Calymmaderus sp.</i>	
Cleridae	
<i>Neorthopleura murina (Klug)</i>	
<i>Clerid sp.</i>	Saint Lucia endemic?

Scientific name	Status
Trogositidae	
<i>Temnochila obscura Reitter</i>	Less. Antill. endemic
<i>Tenebroides sp. #1</i>	
<i>Tenebroides sp. #2</i>	
<i>Colydobius sp.</i>	
Melyridae	
<i>Ablechrus sp. #1</i>	
<i>Ablechrus sp. #2</i>	
<i>Ablechrus sp. nr. Nigrocoeruleus</i>	Less. Antill. endemic?
<i>Melyrodes n. sp.</i>	Saint Lucia endemic?
Lymexylidae	
<i>Atractocerus brasiliensis Lepeletier & Audinet Ser.</i>	
Smicripidae	
<i>Smicrips sp.</i>	
Monotomidae	
<i>Monotoma sp.</i>	Alien
<i>Europs sp. 1</i>	
<i>Europs sp. 2</i>	
Nitidulidae	
<i>Carpophilus sp. 1</i>	
<i>Carpophilus sp. 2</i>	
<i>Carpophilus sp. 3</i>	
<i>Euparea luteolus (Fabricius)</i>	Alien
<i>Lobiopa insularis (Castelnau)</i>	
<i>Stelidota sp. 1</i>	
<i>Stelidota sp. 2</i>	
<i>Colopterus sp. 1</i>	
<i>Colopterus sp. 2</i>	
<i>Conotelus sp.</i>	
Silvanidae	
<i>Cathartosilvanus sp.</i>	
<i>Telephanus sp. 1</i>	Saint Lucia endemic
<i>Telephanus sp. 2</i>	Saint Lucia endemic
<i>Cathartus sp.</i>	

Scientific name	Status
<i>Ahasverus sp.</i>	
Laemophloeidae	
<i>Laemophloeus sp. 1</i>	
<i>Laemophloeus sp. 2</i>	
<i>Laemophloeus sp. 3</i>	
<i>Phloeolaemus sp. 1</i>	
<i>Phloeolaemus sp. 2</i>	
<i>Placonotus sp.</i>	
<i>Dysmerus sp.</i>	
<i>Lepidophloeus sp.</i>	
<i>Cryptolestes sp.</i>	
<i>Laemo? Sp.</i>	
Phalacridae	
<i>Acylopus sp. 1</i>	
<i>Acylopus sp. 2</i>	
<i>Acylopus sp. 3</i>	
<i>Xanthacomus sp.</i>	
Bothrideridae	
<i>Sosylus sp.</i>	
<i>Bothrideres sp.</i>	
Endomychidae	
<i>Eiodereus sp.</i>	Alien
<i>"Micropsephodes" sp.</i>	Saint Lucia endemic?
<i>Adamia n. sp. or n. genus</i>	Saint Lucia endemic
Erotylidae	
<i>Ischyryus quadripunctatus (Olivier)</i>	
<i>Hapalips sp.</i>	
<i>Loberus sp. #1</i>	
<i>Toramus sp. #1</i>	
<i>Toramus sp. #2</i>	
<i>Platoberus dufai Grouvelle</i>	Less. Antill. endemic
Coccinellidae	
<i>Diomus roseicollis (Mulsant)</i>	Alien
<i>Diomus sp. 1</i>	
<i>Diomus sp. 2</i>	

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Scientific name	Status
<i>Diomus sp.3</i>	
<i>Diomus sp. 4</i>	
<i>Diomus sp. 5</i>	
<i>Cladis nitidula (Fabricius)</i>	Caribbean endemic
<i>Nephaspis equuleus Gordon</i>	Less. Antill. endemic?
<i>Nephaspis sp. 1</i>	
<i>Nephaspis sp. 2</i>	
<i>Stethorus caribus Gordon & Chapin</i>	Caribbean endemic
<i>Pseudoazya trinitatis Marshall</i>	Alien
<i>Cycloneda sanguinea</i>	
<i>Coleophora inaequalis (Fabricius)</i>	Alien
<i>Chilocorus cacti (Linneaus)</i>	
<i>Coleomegilla sp.</i>	
<i>Exochomus sp.</i>	?
<i>Exoplectra sp.</i>	?
<i>Hyperaspis sp.</i>	
<i>Psyllobora parvnotata Casey</i>	?
<i>Delphastus n.sp. nr. nebulosus</i>	Saint Lucia endemic
<i>Delphastus sp.</i>	Saint Lucia endemic?
<i>Decadiomus sp. 1</i>	
<i>Scotoscymnus sp. 1</i>	
<i>Nephus sp. 1</i>	
<i>Orthoperus sp.</i>	
<i>Arthrolips sp. 1</i>	
<i>Arthrolips sp. 2</i>	
<i>Holopsis sp.</i>	
<i>Sericoderus sp.</i>	
<i>Genus 1? sp.</i>	
<i>Genus 2? sp.</i>	
Cerylonidae	
<i>Philothermus sp.</i>	
<i>Botrodus sp.</i>	
<i>Metacerylon sp.</i>	
<i>Mychocerus sp. 1</i>	

Scientific name	Status
<i>Mychocerus sp. 2</i>	
Latridiidae	
<i>Latridiid sp. #1</i>	?
<i>Caserus sp.</i>	?
Ciidae	
<i>Ceracis furcatus</i>	
<i>Ceracis pullulus Casey</i>	
<i>Ceracis sp. #1</i>	
<i>Cis mellei Cockerel</i>	
<i>Cis cerberrimus Mellié</i>	
<i>Cis sp. #1</i>	
<i>Cis sp. #2</i>	
<i>Cis sp. #3</i>	
<i>Cis sp. #4</i>	
<i>Cis sp. #5</i>	
<i>Cis sp. #6</i>	
<i>Cis sp. #7</i>	
<i>Cis sp. #8</i>	
<i>Scolytocis cariborum Lopes-Andrade</i>	Less. Antill. endemic
Mycetophagidae	
<i>Litargus sp. 1</i>	
<i>Litargus sp. 2</i>	
Meloidae	
<i>Pseudozonitis marginata (Fabricius)</i>	Caribbean endemic
<i>Pseudozonitis obscuricornis (Chevrolat)</i>	Caribbean endemic
Salpingidae	
<i>Inopeplus assitans Blackwelder</i>	Saint Lucia endemic
<i>Inopeplus smooth head dark antennomeres</i>	Saint Lucia endemic
<i>Serrotibia iviei Escalona</i>	Saint Lucia endemic
<i>nr. Sosthenes</i>	Saint Lucia endemic?
<i>Prostomininae sp. #1</i>	Saint Lucia endemic?
<i>Prostomininae sp. #2</i>	Saint Lucia endemic?
<i>Prostomininae sp. #3</i>	Saint Lucia endemic?
Oedemeridae	

Scientific name	Status
<i>Oxycopsis sp. 1</i>	
<i>Oxycopsis nr. quadrilineata</i>	Saint Lucia endemic
<i>Hypasclera sp. 1</i>	
<i>Paroxacis sp.</i>	
<i>Ascalera sp. 1</i>	Saint Lucia endemic
<i>Ascalera sp. 2</i>	Saint Lucia endemic
<i>Ascalera sp. 3</i>	Saint Lucia endemic
Mordellidae	
<i>Gliptostenoda sp.1</i>	
<i>Mordellistena sp.1</i>	
<i>Falsomordellistena sp.1 ?</i>	
<i>Gliptostenoda sp.2</i>	
<i>Tolidomordella sp. 1</i>	
<i>Falsomordellistena sp.2 ?</i>	
<i>Falsomordellistena sp. 3 ?</i>	
Rhipiphoridae	
<i>Macrosiagon sp.1</i>	
<i>Macrosiagon sp.2</i>	
Colydiidae	
<i>Synchita sp.</i>	
<i>Lasconotus sp.</i>	
<i>Monoedus sp.</i>	
<i>Nematidium sp.</i>	
<i>Eucicones sp.</i>	
<i>Paha sp.</i>	
<i>Bitoma sp.</i>	
<i>Eulachus sp.</i>	
<i>Plagiope sp.</i>	Saint Lucia endemic?
Zopheridae	
<i>Pycnomerus n. sp.</i>	Saint Lucia endemic
<i>Pycnomerus infimus (Grouvelle)</i>	Less. Antill. endemic
<i>Pycnomerus uniformis Ivie & Slipinski</i>	Less. Antill. endemic
<i>Pycnomerus biimpressus Reitter</i>	
Tenebrionidae	
<i>Alegoria dilatata</i>	Alien

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Scientific name	Status
<i>Ammodonus ciliatus</i> Champion	
<i>Opatrinus</i> (O.) <i>clathratus</i>	
<i>Phaleria fulva</i> Fleutiaux & Salle	
<i>Phaleria testacea</i> Say	
<i>Uloma parvula</i> Champion	Less. Antill. endemic
<i>Uloma retusa</i> (Fabricius)	
<i>Palembus ocularis</i> ?	Alien
<i>Cymatothes tristis</i> LaPorte	Alien
<i>Cyrtosoma n.sp.</i>	Saint Lucia endemic
<i>Zypoetes</i> ?	?
<i>Dioedus sp. w/2 seg club</i>	
<i>Dioedus sp. w/3 seg club</i>	
<i>Archeoglenes n. sp.</i>	Saint Lucia endemic
<i>Talanus sp.#1</i>	Saint Lucia endemic?
<i>Talanus sp.#2</i>	Saint Lucia endemic?
<i>Ortheolus sp. nr. antillarum</i> (Champion)	
<i>Patydema s. prob. apicenotatum</i> Champion	Less. Antill. endemic?
<i>Diaperis maculata</i> Olivier	
<i>Gondwanocrypticus prob. undatus</i> (Champion)	Less. Antill. endemic?
<i>Blapstinus (Diastolinus) n.sp.</i>	Saint Lucia endemic
<i>Lorelus sp.</i>	
<i>Lorelopsiis sp.</i>	
<i>Lorelus sp. small eyes</i>	Saint Lucia endemic
<i>Tyrtaeus rufus</i>	Alien
<i>Corticeus sp.</i>	
<i>Alphitobius laevigatus</i> (Fabricius)	Alien
<i>Rhipidandrus cornutus</i> (Arrow)	
<i>Zophobas sp.</i>	Alien
<i>Lystronychus n. sp.</i>	Saint Lucia endemic
<i>Lobopoda n. sp.#1</i>	Saint Lucia endemic
<i>Lobopoda n. sp.#2</i>	Saint Lucia endemic
<i>Statria n. sp.</i>	Saint Lucia endemic
<i>Adelina sp.</i>	

Scientific name	Status
<i>Cryptozoon n.sp.</i>	Saint Lucia endemic
<i>Gnatocerus sp.</i>	Alien
<i>Trachyscleis aphodiodes</i> Latreille	Alien
<i>Hesiotes n. sp.</i>	Saint Lucia endemic
Anthicidae	
<i>Anthicinae sp.</i>	?
<i>Mecynotarsus prob. shenkingi</i> Pic	
Aderidae	
<i>Zonantes sp.</i>	
<i>Ganascus sp. 1</i>	
<i>Ganascus sp. 2</i>	
<i>Ganascus sp. 3</i>	
<i>Pseudariotes sp. 1</i>	
<i>Pseudariotes sp. 2</i>	
Cerambycidae	
<i>Hesperandra glabra</i> (DeGeer)	
<i>Mallodon spinibarbis</i> (Linnaeus)	
<i>Solenoptera luciae</i> (Lameere)	Saint Lucia endemic
<i>Solenoptera canaliculata</i> (Fabricius)	Less. Antill. endemic
<i>Strongylapsis corticarius</i> (Erichson)	
<i>Chlorida festiva</i> Linnaeus	Alien
<i>Achryson surinamum</i> (Linnaeus)	Alien
<i>Methia necydalea</i> (Fabricius)	
<i>Bonfilsia n. sp.</i>	Saint Lucia endemic
<i>Nesanoplum dalensi</i> Chalumeau & Tourout	Saint Lucia endemic
<i>n. gen. n. sp.</i>	Saint Lucia endemic
<i>Curtoemerus flavus</i> Fabricius	Alien
<i>Caribbomerus nr. attenuatus</i>	
<i>Neocompsa cylindricollis</i> (F.)	
<i>Mionochroma elegans</i> (Olivier)	Less. Antill. endemic
<i>Mionochroma rufescens</i>	Caribbean endemic
<i>Eburia n. sp.</i>	Saint Lucia endemic
<i>Eburia insulana</i> Gahan	Less. Antill. endemic
<i>Eburia inermis</i> (Fleutiaux & Sallé)	Less. Antill. endemic

Scientific name	Status
<i>Stizocera daudini</i> Chalumeau & Tourout	Less. Antill. endemic
<i>Elaphidion glabratum</i>	Caribbean endemic
<i>Ochrus ornatus</i>	
<i>Taniotes leucogrammus</i> Thompson	Less. Antill. endemic
<i>Paraclymntemnestra lineata</i> (Fisher)	Saint Lucia endemic
<i>Oncideres amputator</i> (F.)	Caribbean endemic
<i>Carnedes n. sp.</i>	Saint Lucia endemic
<i>Mimostoloides bernardi</i> Breuning	Less. Antill. endemic
<i>Drycothea guadeloupensis</i> Fleutiaux & Sallé	Less. Antill. endemic
<i>Trestonia fulgerata</i> Buquet	Less. Antill. endemic
<i>Cacostola ornata</i> Feutiaux & Sallé	Less. Antill. endemic
<i>Ecyrus hirtipes</i> (Gahan)	Caribbean endemic
<i>Adetus lherminieri</i> (Fleutiaux & Sallé)	Less. Antill. endemic
<i>Descarthia stephenii</i> Hope	Less. Antill. endemic
<i>Mesestola guadeloupensis</i> Breuning	Less. Antill. endemic
<i>Desmiphora hirticollis</i> (Olivier)	
<i>Bisaltes? Reared from Capsicum</i>	
<i>Steirastoma breve</i> (Sulzer)	Alien
<i>Oreodera glauca</i> (L.)	Alien
<i>Lagochierus araeniformis</i> (L.)	
<i>Oedopeza fleutiauxi</i> (Villiers)	Less. Antill. endemic
<i>Trypanidium spilmani</i> Villiers	Less. Antill. endemic
<i>Styloleptus posticalus</i>	Less. Antill. endemic
<i>Amniscus assimilis</i> (Gahan)	Less. Antill. endemic
<i>Amniscus similis</i> (Gahan)	Caribbean endemic
<i>Leptostylopsis martinicensis</i> Villiers	Less. Antill. endemic
<i>Urgleptes guadeloupensis</i> (Fleutiaux & Sallé)	
<i>Hypsioma grisea</i> (Fleutiaux & Sallé)	Less. Antill. endemic
Chrysomelidae	
<i>Bruchinae #1</i>	
<i>Bruchinae #2</i>	
<i>Chalepus prob. n. sp.</i>	Saint Lucia endemic
<i>Chalepus sangunicollis</i> (Linnaeus)	

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Scientific name	Status
<i>Charidotella prob. n. sp.</i>	Saint Lucia endemic
<i>Charidotella sexpunctata sexpunctata</i> (Fabricius)	
<i>Chelymorpha cribraria</i> (Fabricius)	
<i>Deloyala guttata</i> (Olivier)	
<i>Hilarocassis exclamationis</i> (Linnaeus)	
<i>Lema ? hamata</i> Lacordaire	
<i>Lema ? n. sp.</i>	Saint Lucia endemic
<i>Lema ? vittatipennis</i> Baley	
<i>Neolema dorsalis</i> (Olivier)	
<i>Oulema obscura</i> (Fabricius)	
<i>Cryptocephalus ? ovatus</i> Fleuteaux	Less. Antill. endemic
<i>Cryptocephalus prob. n. sp. #1</i> (near <i>perspicax</i>)	Saint Lucia endemic
<i>Exema prob. n. sp.</i>	Saint Lucia endemic
<i>Griburius prob. n. sp.</i>	Saint Lucia endemic
<i>Pachybrachis ? n. sp. 1</i>	Saint Lucia endemic
<i>Pachybrachis ? n. sp. 2</i>	Saint Lucia endemic
<i>Pachybrachis scabripennis</i> Jacoby	Less. Antill. endemic
<i>Triachus n. sp.</i>	Saint Lucia endemic
" <i>Alethaxius</i> " <i>dominicæ</i> Blake	Less. Antill. endemic
? <i>Tymnes prob. n. sp.</i>	Saint Lucia endemic
<i>Colaspis luciae</i> Blake	Saint Lucia endemic
<i>Metachroma n. sp.</i>	Saint Lucia endemic
<i>Rhabdopterus grenadensis</i> Bowditch	Less. Antill. endemic
" <i>Aphthona</i> " <i>insularis</i> Blake	Less. Antill. endemic
" <i>Aphthona</i> " <i>maculipennis</i> Jacoby	
? <i>Guadeloupena n. sp.</i>	Saint Lucia endemic
<i>Acalymma innubum</i> (Fabricius)	
<i>Aedemon prob. n. sp. 1</i>	Saint Lucia endemic
<i>Aedmon prob. n. sp. 2</i>	Saint Lucia endemic
<i>Altica sp. near occidentalis</i> (Suffrian)	
<i>Cerotoma ruficornis ruficornis</i> (Olivier)	
<i>Chaetocnema perplexa</i> Blake	Caribbean endemic
<i>Diabrotica luciana</i> Blake	Saint Lucia endemic
<i>Diabrotica sinuata</i> (Olivier)	

Scientific name	Status
<i>Epitrix fasciata</i> Blatchley	
<i>Heikertingerella prob. n. sp.</i>	Saint Lucia endemic
<i>Leptophysa therminieri</i> (Bryant)	Less. Antill. endemic
<i>Megistops n. sp.</i>	Saint Lucia endemic
<i>Metrogaleruca obscura</i> (Degeer)	
<i>Monomacra blakea</i> (Bechyne)	Saint Lucia endemic
<i>Monotalla prob. n. sp.</i>	Saint Lucia endemic
<i>Neolochmaea obliterated</i> (Olivier)	
<i>Omophoita albicollis</i> (Fabricius)	Caribbean endemic
<i>Syphrea ? smithiana</i> (Csiki)	Less. Antill. endemic
<i>Systema s-littera</i> Linnaeus)	
<i>Yingaresca prob. n. sp.</i>	Saint Lucia endemic
<i>Oomorphus prob. n. sp.</i>	Saint Lucia endemic
Brentidae	
<i>Cylas formicarius</i> (F.)	Alien
<i>Apion s.l. n.sp.1</i>	Saint Lucia endemic?
<i>Apion n.sp. 2</i>	
<i>Stereoderma ?exilis</i> Suffrian	Caribbean endemic
<i>Brentid sp. 1</i>	
<i>Brentid sp. 2</i>	
Attelabidae	
<i>Auletobius sp.</i>	
Anthribidae	
<i>Ormiscus lineicollis</i> Chevrolat	Less. Antill. endemic
<i>Ormiscus sp. 1</i>	
<i>Homocloeus sp.</i>	
<i>Acaromimus sp.</i>	
<i>Euxenus sp.</i>	
<i>Araecrini genus? sp.</i>	
Curculionidae	
<i>Anthonomus nanus</i> Gyllenhal	
<i>Anthonomus macromalus</i> Gyllenhal	
<i>Cyrtionyx piperis</i> Marshall	Saint Lucia endemic
<i>Euscepes postfasciatus</i> Fairmaire	
<i>Diaprepes abbreviatus</i> Linnaeus	Alien

Scientific name	Status
<i>Diaprepes boxi</i> Marshall	Saint Lucia endemic
<i>Metamasius hemipterus</i> (Linnaeus)	Alien
<i>Sternochetus mangiferae</i>	Alien
<i>Macromerus lanipes</i> (Olivier)	
<i>Cholus martiniquensis</i> Marshall	Less. Antill. endemic
<i>Cosmopolites sordidus</i>	Alien
<i>Eustylus hybridus</i> (Rosenschoeld)	Less. Antill. endemic
Scolytidae	
<i>Cnemonyx ficus</i> Schwarz	Caribbean endemic
<i>Cnemonyx vagabundus</i> Wood	Caribbean endemic
<i>Bothrosternus isolatus</i> Bright	Caribbean endemic
<i>Cnesinus badius sp. nov.</i>	Saint Lucia endemic
<i>Chramesus maieri sp. nov.</i>	Saint Lucia endemic
<i>Chramesus rotundatus</i> (Chapuis)	Caribbean endemic
<i>Pycnarthrum squamosum sp. nov.</i>	Saint Lucia endemic
<i>Pycnarthrum hispidum</i> (Ferrari)	
<i>Scolytodes nitidissimus</i> (Eggers)	Less. Antill. endemic
<i>Scolytodes atlanticus</i> Bright & Torres	Caribbean endemic
<i>Scolytodes notatus</i> (Eggers)	Caribbean endemic
<i>Stevewoodia minutum sp. nov.</i>	Saint Lucia endemic
<i>Pseudothysanoes magnispinatus</i> Bright & Torres	Caribbean endemic
<i>Cryptocarenum seriatus</i> Eggers	
<i>Cryptocarenum heveae</i> Hagedorn	Alien?
<i>Hypothenemus atomus</i> Hopkins	
<i>Hypothenemus collinus sp. nov.</i>	Saint Lucia endemic
<i>Hypothenemus sp. nov #22</i>	?
<i>Hypothenemus columbi</i> Hopkins	
<i>Hypothenemus crudiae</i> (Panzer)	
<i>Hypothenemus birmanus</i> (Eichhoff)	
<i>Hypothenemus erectus</i>	
<i>Hypothenemus brunneus</i> (Hopkins)	
<i>Hypothenemus pubescens</i>	
<i>Hypothenemus squamosus</i> (Hopkins)	
<i>Hypothenemus eruditus</i> Westwood	

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Scientific name	Status
<i>Hypocryphalus mangiferae</i> (Stebbing)	
<i>Xyleborinus buscki</i> (Hopkins)	Less. Antill. endemic
<i>Dryocoetoides capucinus</i> (Eichhoff)	
<i>Dryocoetoides cristatus</i> (Fabricius)	
<i>Coptoborus vespatorius</i> (Schedl)	
<i>Coptoborus exilis</i> (Schedl)	
<i>Theoborus theobromae</i> Hopkins	
<i>Xyleborus affinis</i> Eichhoff	
<i>Xyleborus ferrugineus</i> Fabricius	
<i>Xyleborus caraibicus</i> Eggers	
<i>Xyleborus spinulosus</i> Blandford	
<i>Xyleborus volvulus</i> (Fabricius)	
<i>Xylosandrus compactus</i> (Eichhoff)	
<i>Ambrosiodmus obliquus</i> (LeConte)	
<i>Sphenocerus antillicus</i> sp. nov.	Saint Lucia endemic

Scientific name	Status
<i>Araptus hymenaeae</i> (Eggers)	
<i>Araptus squamosus</i> sp. nov.	Saint Lucia endemic
<i>Araptus elegans</i> sp. nov.	Saint Lucia endemic
<i>Araptus</i> sp. 1	
<i>Pityophthorus silvaticus</i> sp. nov.	Saint Lucia endemic
<i>Pityophthorus woodruffi</i> sp. nov.	Saint Lucia endemic
<i>Pityophthorus pudens</i> (Blackman)	Caribbean endemic
<i>Pityophthorus</i> sp. 1	
<i>Pityophthorus</i> sp. 2	
<i>Corthylus</i> sp. 1	
<i>Corthylus</i> sp. 2	
<i>Monarthrum ferrugineum</i> sp. nov.	Saint Lucia endemic
<i>Microcorthylus</i> sp.	
<i>Coccotrypes advena</i> Blandford	Alien
<i>Coccotrypes cyperi</i> (Beeson)	Alien

Scientific name	Status
<i>Pagiocerus frontalis</i> (Fabricius)	
<i>Premnobius cavipennis</i> Eichhoff	or Alien
<i>Monarthrum praeustum</i> (Eggers)	Caribbean endemic
<i>Hylocurus</i> sp. 1	
<i>Cnesinus guadeloupensis</i> Eggers	Less. Antill. endemic
<i>Cnesinus strigicollis</i> LeConte	Caribbean endemic
<i>Xyleborus posticus</i> Eichhoff	
<i>Hylocurus</i> sp. 2	
Platypodidae	
<i>Euplatypus parallelus</i> (Fabricius)	
<i>Euplatypus pulicarius</i> (Chapuis)	
<i>Teloplatypus ustulatus</i> (Chapuis)	

Table D Flies of Saint Lucia

Unpublished data from M. Ivie, R. Winton, J. Runyon and Stephen D. Gaimari.

Scientific name	Status
Agromyzidae	
<i>Liriomyza sativae</i>	?
<i>Calycomyza opaca</i>	?
Asilidae	
<i>Efferia nigrimystaceus</i>	?
<i>Ommatius dimidiatus</i>	?
Cecidomyiidae	
<i>Contarinia lycopersici</i>	?
Ceratopogonidae	
<i>Culicoides pusillus</i>	?
<i>Culicoides trilineatus</i>	?
Chamaemyiidae	

Scientific name	Status
<i>Toropamecia caribbea</i> Cogan	?
<i>Leucopis bella</i> Loew	?
<i>Leucopis</i> n.sp.C	?
<i>Melaleucopis simmondsi</i> Sabrosky	?
Chironomidae	
<i>Diplosmittia harrisoni</i>	?
<i>Pseudosmittia digitata</i>	?
Chloropidae	
<i>Goniaspis lucia</i>	?
Clusiidae	
<i>Sobarocephala</i> sp.	
Culicidae	

Scientific name	Status
<i>Aedes (Ochlerotatus) taeniorhynchus</i>	?
<i>Aedes (Ochlerotatus) tortilis</i>	?
<i>Aedes (Stegomyia) aegypti</i>	?
<i>Anopheles (Nyssorhynchus) aquasalis</i>	?
<i>Anopheles (Nyssorhynchus) argyritarsis</i>	?
<i>Culex (Culex) nigripalpus</i>	?
<i>Culex (Culex) quinquefasciatus</i>	?
<i>Culex (Melanoconion) atratus</i>	?
<i>Culex (Melanoconion) idottus</i>	?
<i>Culex (Melanoconion) madininensis</i>	?
<i>Mansonia (Mansonia) titillans</i>	?
<i>Psorophora (Janthinosoma) ferox</i>	?

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Scientific name	Status
<i>Uranotaenia (Uranotaenia) lowii</i>	?
<i>Wyeomyia (Wyeomyia) grayii</i>	?
<i>Wyeomyia (Wyeomyia) pertinans</i>	?
Dolichopodidae	
<i>Thrypticus minutus</i>	?
<i>Xanthina acuticornis</i> Robinson	Less. Antill. endemic?
<i>Achradocera apicalis</i> (Aldrich)	Caribbean endemic
<i>Asyndetus bredini</i> Robinson	Less. Antill. endemic
<i>Asyndetus syntormoides</i> Wheeler	
<i>Asyndetus n.sp. nr. fratellus</i>	Saint Lucia endemic?
<i>Asyndetus nr. interruptus</i> (Loew)	Saint Lucia endemic?
<i>Chrysotus n.sp. nr. callichromus</i>	Saint Lucia endemic?
<i>Chrysotus excisis</i> Robinson	
<i>Chrysotus hirsutus</i> Aldrich	
<i>Chrysotus lamellicaudatus</i> Robinson	Less. Antill. endemic
<i>Chrysotus mediocaudatus</i> Robinson	Less. Antill. endemic
<i>Chrysotus mexinanus</i> Robinson	
<i>Chrysotus minumus</i> Robinson	Less. Antill. endemic
<i>Chrysotus orichalceus</i> Gosseries (=niger Aldrich)	Less. Antill. endemic
<i>Chrysotus proximus</i> Robinson	Less. Antill. endemic
<i>Chrysotus pseudoniger</i> Robinson	Less. Antill. endemic
<i>Chrysotus xiphostoma</i> Robinson	Less. Antill. endemic
<i>Diaphorus angustifrons</i> Robinson	Less. Antill. endemic
<i>Diaphorus contiguus</i> Aldrich	
<i>Diaphorus flavipes</i> Aldrich	
<i>Diaphorus parvulus</i> Aldrich	Caribbean endemic
<i>Paraclius dominicensis</i> Robinson	Less. Antill. endemic
<i>Paraclius filifer</i> Aldrich	
<i>Paraclius quadrinotatus</i> Aldrich	
<i>Paraclius n.sp. nr. discifer</i>	Saint Lucia endemic?
<i>Paraclius n.sp. nr. bellus</i>	Saint Lucia endemic?
<i>Paraclius n.sp. nr. sarcionoides</i>	Saint Lucia endemic?
<i>Tachytrechus n.sp. nr. perornatus</i>	Saint Lucia endemic?
<i>Enlinia bredini</i> Robinson	Less. Antill. endemic

Scientific name	Status
<i>Enlinia patellitarsis</i> Robinson	Less. Antill. endemic
<i>Enlinia n.sp. nr. larondei</i>	Saint Lucia endemic?
<i>Enlinia n.sp. nr. sordida</i>	Saint Lucia endemic?
<i>Enlinia n.sp. nr. larondei #2</i>	Saint Lucia endemic?
<i>Enlinia n.sp.</i>	Saint Lucia endemic?
<i>Enlinia n.sp. nr. panamensis</i>	Saint Lucia endemic?
<i>Harmstonia n.sp.</i>	Saint Lucia endemic?
<i>Cymatopus bredini</i> Robinson	Less. Antill. endemic
<i>Thinophilus ochrifacies</i> Van Duzee	
<i>Cryptopygiella musaphila</i> Robinson	Less. Antill. endemic
<i>Medetera n.sp. nr. crassicauda</i>	Saint Lucia endemic?
<i>Medetera pseudonigripes</i> Robinson	Less. Antill. endemic
<i>Medetera archboldi/steyskali (female)</i>	Less. Antill. endemic
<i>Thrypticus delicatus</i> Robinson	Less. Antill. endemic
<i>Thrypticus minutus</i> Parent	
<i>Dactylomyia decora</i> (Aldrich)	
<i>Neurigona n.sp.</i>	. Saint Lucia endemic?
<i>Nanomyia n.sp. nr. barbata?</i>	Saint Lucia endemic?
<i>Micromorpus albipes</i> (Zetterstedt)	
<i>Peloropeodes n.sp. nr. debilis</i>	Saint Lucia endemic?
<i>Peloropeodes n.sp. nr. similis</i>	Saint Lucia endemic?
<i>Peloropeodes dominicensis</i>	Less. Antill. endemic
<i>Peloropeodes frater</i> (Aldrich)	Less. Antill. endemic
<i>Amblypsilopus luteus</i> Robinson	Less. Antill. endemic
<i>Amblypsilopus n.sp. nr. luteus</i>	Saint Lucia endemic?
<i>Amblypsilopus unifasciatus</i> (Say)	
<i>Condylostylus graenicheri</i> (Van Duzee)	
<i>Condylostylus longicornis</i> (Fabricius)	
<i>Condylostylus similis</i> (Aldrich)	
<i>Sympycnus n.sp. nr. dominicensis</i>	Saint Lucia endemic?
Drosophilidae	
<i>Zygothrica vitticlara</i>	?
<i>Drosophila antillea</i>	?
<i>Drosophila insularis</i>	?
Ephydridae	

Scientific name	Status
<i>Philygria (Nostima) negruzca</i>	?
<i>Philygria (Nostima) simuliflavida</i>	?
Lauxaniidae	
<i>Physoclypeus hendeli</i>	?
<i>Deceia cf. crevecoueri</i> (Coquillett)	?
<i>Poecilominettia n.sp. (zebroides-grp)</i>	?
<i>Sapromyza octopuncta</i> Wiedemann	?
<i>Marmarodeceia marmorata</i> (Malloch)	?
<i>Poecilominettia n.sp.1 (grata-grp)</i>	?
<i>Poecilominettia n.sp.2 (grata-grp)</i>	?
<i>Melanomyza (Melanomyza) n.sp.</i>	?
<i>Trisapromyza cf. vittigera</i> (Coquillett)	?
<i>Sapromyza sororia</i> Williston	?
<i>Sapromyza n.sp. (sororia-grp)</i>	?
<i>Xenochaetina n.sp.</i>	?
Micropezidae	
<i>Grallipeza sp.</i>	?
Phoridae	
<i>Dorhniphora cornuta</i>	?
<i>Dorhniphora divaricata</i>	?
Pipunculidae	
<i>Tomosvaryella tuberculata</i>	?
Sphaeroceridae	
<i>Robustagramma luciense</i>	?
<i>Rachispoda luciana</i>	?
Stratiomyidae	
<i>Brachycara slossonae</i> (Johnson)	?
<i>Cyphomyia dominicana</i> James	?
<i>Hermetia illucens</i> (Linnaeus)	?
<i>Merosargus sp.</i>	?
<i>Pachygaster sp.1</i>	?
<i>Pachygaster sp.2</i>	?
<i>Sargus sp. nr. fasciatus</i> Fabricius	?
Syrphidae	
<i>Pseudodorus clavatus</i>	?

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Scientific name	Status
<i>Ocyptamus dimidiatus</i>	?
<i>Ocyptamus sp.nov.?</i>	?
<i>Toxomerus floralis</i>	?
<i>Toxomerus pictus</i>	?
<i>Toxomerus arcifer</i> (Loew)	?
<i>Toxomerus dispar</i> (Fabricius)	?

Scientific name	Status
<i>Ornida obesa</i>	?
<i>Palpada vinetorum</i>	?
<i>Eristalis agrorum</i>	?
<i>Anastrepha obliqua</i>	?
Tanypezidae	
<i>Neotanypeza flavicalx</i> Enderlein	?

Scientific name	Status
Tephritidae	
<i>Tomoplagia incompleta</i> (Williston)	?

Table E Dragonflies of Saint Lucia

Unpublished data from F. Sibley

Scientific name	Status
Lestidae	
<i>Lestes forficula</i> Rambur 1842	
<i>Lestes tenuatus</i> Rambur 1842	
Protoneuridae	
<i>Protoneura ailsa</i> Donnelly 1961	Lesser Antillean endemic
Coenagrionidae	
<i>Argia concinna</i> (Rambur 1842)	Lesser Antillean endemic
<i>Enallagma coecum</i> (Hagen 1861)	
<i>Ischnura capreolus</i> (Hagen 1861)	
<i>Ischnura ramburii</i> (Selys 1850)	
<i>Telebasis corallina</i> (Selys 1876)	
Aeshnidae	
<i>Gynacantha nervosa</i> Rambur 1842	
<i>Triacanthagyna caribbea</i> Williamson 1923	
<i>Triacanthagyna septima</i> (Selys 1857)	
<i>Triacanthagyna trifida</i> (Rambur, 1842)	

Scientific name	Status
Libellulidae	
<i>Brachymesia furcata</i> (Hagen 1861)	
<i>Brachymesia herbida</i> (Gundlach 1889)	
<i>Dythemis sterilis</i> Hagen 1861	
<i>Erythemis vesiculosa</i> (Fabricius 1775)	
<i>Erythrodiplax berenice</i> (Drury 1773)	
<i>Erythrodiplax umbrata</i> (Linnaeus 1758)	
<i>Miathyria marcella</i> (Selys 1857)	
<i>Micrathyria aequalis</i> (Hagen 1861)	
<i>Micrathyria didyma</i> (Selys 1857)	
<i>Orthemis macrostigma</i> (Rambur 1842)	Lesser Antillean endemic
<i>Pantala flavescens</i> (Fabricius 1798)	
<i>Tholymis citrina</i> Hagen 1867	
<i>Tremea abdominalis</i> (Rambur 1842)	
<i>Tremea insularis</i> Hagen 1861	

Table F Reptiles and Amphibians of Saint Lucia

* Species not seen since 1960 or earlier. Data from Daltry (2009).

Scientific Name	Common Names	Status
AMPHIBIA		
<i>Bufo marinus</i>	Cane toad, Kwapo	Alien
<i>Eleutherodactylus johnstonei</i>	Johnstone's whistling frog, Ti tolin	Saint Lucia endemic
* <i>Eleutherodactylus martinicensis</i>	Martinique whistling frog, Gounouy	Alien/ Lesser Antillean endemic
<i>Scinax ruber</i>	Red-snouted tree frog	Alien
* <i>Leptodactylus fallax</i>	Mountain chicken, Kwapo	Lesser Antillean endemic
REPTILIA		
<i>Caretta caretta</i>	Loggerhead	(pantropical, marine)
<i>Chelonia mydas</i>	Green turtle, Toti blan, Toti vè	(pantropical, marine)
<i>Dermochelys coriacea</i>	Leatherback turtle, Toti cerkeil	(pantropical, marine)
<i>Eretmochelys imbricata</i>	Hawksbill turtle, Toti karet	(pantropical, marine)
<i>Anolis extremus</i>	Barbados anole, Zannoli	Alien/ Lesser Antillean endemic
<i>Anolis luciae</i>	Saint Lucia anole, Zannoli	Saint Lucia endemic
<i>Anolis wattsi wattsi</i>	Watts' anole, Zannoli	Alien/ Lesser Antillean endemic
<i>Cnemidophorus vanzoi</i>	Saint Lucia whiptail, Zando	Saint Lucia endemic
<i>Gymnophthalmus pleii</i>	Rough-scaled worm lizard, Zannoli	Lesser Antillean endemic
<i>G. p. luetkeni</i>	Saint Lucia worm lizard	Saint Lucia endemic
<i>G. p. nesydrion</i>	Maria Islands worm lizard	Saint Lucia endemic
<i>Hemidactylus mabouia</i>	House gecko, Mabouya	Alien?
<i>Hemidactylus palaichthus</i>	Antilles leaf-toed gecko, Rock gecko	
<i>Iguana cf iguana</i>	Saint Lucia iguana, Léza	Saint Lucia endemic
<i>Iguana iguana</i>	Green iguana, Léza	Alien
* <i>Mabuya mabouya</i>	Southern Antillean skink, Mabouya	Lesser Antillean endemic
* <i>Sphaerodactylus elegantulus</i>	Antiguan pygmy gecko	Lesser Antillean endemic
<i>Sphaerodactylus microlepis</i>	Saint Lucia pygmy gecko	Saint Lucia endemic
<i>S. m. microlepis</i>	Saint Lucia pygmy gecko	Saint Lucia endemic
<i>S. m. thomasi</i>	Maria Islands pygmy gecko	Saint Lucia endemic
* <i>Sphaerodactylus vincenti</i>	Central Lesser Antillean pygmy gecko	Alien/ Lesser Antillean endemic
<i>Thecadactylus rapicaudus</i>	Forest gecko	
<i>Boa constrictor orophias</i>	Boa constrictor	
<i>B. c. orophias</i>	Saint Lucia boa, Tet chyenn	Saint Lucia endemic
<i>Bothrops caribbaeus</i>	Saint Lucia fer-de-lance, Sepan	Saint Lucia endemic
* <i>Clelia errabunda</i>	Saint Lucia cribo, Cribo	Saint Lucia endemic
<i>Leptotyphlops bruilei</i>	Saint Lucia thread snake	Saint Lucia endemic
<i>Liophis ornatus</i>	Saint Lucia racer, Kouwès	Saint Lucia endemic

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Table G Birds of Saint Lucia (excluding vagrant records)

* Species not seen since 1970 or earlier. M = Migrant, R= Resident. Data from Toussaint *et al.* (2009).

Scientific name	Common name	Status	Residency	Scientific name	Common name	Status	Residency
<i>Pluvialis dominica</i>	American Golden-Plover		M	<i>Quiscalus lugubris</i>	Caribbean coot		M
<i>Falco sparverius</i>	American Kestrel		R	<i>Elaenia martinica</i>	Caribbean Elaenia	Caribbean endemic	R
<i>Haematopus palliatus</i>	American Oystercatcher		R	<i>Progne dominicensis</i>	Caribbean Martin	Caribbean endemic	R
<i>Setophaga ruticilla</i>	American Redstart		M	<i>Bubulcus ibis</i>	Cattle Egret		R
<i>Anas americana</i>	American Wigeon		M	<i>Petrochelidon pyrrhonota</i>	Cliff Swallow		M
<i>Orthorhyncus cristatus</i>	Antillean Crested Hummingbird	Caribbean endemic	R	<i>Columbina passerina</i>	Common Ground-dove		R
<i>Euphonia musica</i>	Antillean Euphonia	Caribbean endemic	R	<i>Gallinula chloropus</i>	Common Moorhen		R
<i>Puffinus lherminieri</i>	Audubon's Shearwater		R	<i>Chordeiles minor</i>	Common Nighthawk		R
<i>Calidris bairdii</i>	Baird's Sandpiper		M	<i>Sterna hirundo hirundo</i>	Common Tern		M
<i>Coereba flaveola</i>	Bananaquit		R	<i>Zenaida auriculata</i>	Eared Dove		R
<i>Riparia riparia</i>	Bank Swallow		M	<i>Streptopelia decaocto</i>	Eurasian Collared-Dove	Alien	R
<i>Turdus nudigenis</i>	Bare-eyed Thrush		R	<i>Cichlherminia lherminieri</i>	Forest Thrush	Less. Ant. endemic	
<i>Hirundo rustica</i>	Barn Swallow		M	<i>C. l. sanctaeluciae</i>		Saint Lucia endemic	R
<i>Megasceryle alcyon</i>	Belted Kingfisher		R	<i>Sicalis luteola</i>	Grassland Yellow-Finch		R
<i>Cypseloides niger</i>	Black Swift		M	<i>Ardea herodias</i>	Great Blue Heron		M
<i>Mniotilta varia</i>	Black-and-white Warbler		M	<i>Casmerodius albus</i>	Great Egret		R and M
<i>Pluvialis squatarola</i>	Black-bellied Plover		M	<i>Puffinus gravis</i>	Greater Shearwater		M
<i>Nycticorax nycticorax</i>	Black-crowned Night-Heron		R	<i>Tringa melanoleuca</i>	Greater Yellowlegs		M
<i>Tiaris bicolor</i>	Black-faced Grassquit		R	<i>Butorides virescens</i>	Green Heron		R
<i>Rissa tridactyla</i>	Black-legged Kittiwake		M	<i>Eulampis holosericeus</i>	Green-throated Carib	Caribbean endemic	R
<i>Himantopus mexicanus</i>	Black-necked Stilt		M	<i>Tyrannus dominicensis</i>	Grey Kingbird		R
<i>Dendroica striata</i>	Blackpoll Warbler		M	<i>Cinlocerthia gutturalis</i>	Grey Trembler	Less. Ant. endemic	R
<i>Vireo altiloquus</i>	Black-whiskered Vireo		R	<i>C. g. macrorhyncha</i>		Saint Lucia endemic	
<i>Anas discors</i>	Blue-winged Teal		M	<i>*Gelocheilidon nilotica</i>	Gull-billed Tern		M
<i>Dolichonyx oryzivorus</i>	Bobolink		M	<i>Limosa haemastica</i>	Hudsonian Godwit		M
<i>Geotrygon mystacea</i>	Bridled Quail-dove		R	<i>Charadrius vociferous</i>	Killdeer		M
<i>Onychoprion anaethetus</i>	Bridled Tern		M	<i>Larus atricilla</i>	Laughing Gull		M
<i>Buteo platypterus</i>	Broad-winged Hawk		R	<i>Calidris minutilla</i>	Least Sandpiper		M
<i>Sula leucogaster</i>	Brown Booby		R	<i>*Sternula antillarum</i>	Least Tern		M
<i>Anous stolidus</i>	Brown Noddy		R	<i>Contopus latirostris</i>	Lesser Antillean Pewee	Less. Ant. endemic	
<i>Pelecanus occidentalis</i>	Brown Pelican		R	<i>C. l. oberi</i>	Saint Lucia Pewee	Saint Lucia endemic	R
<i>*Tryngites subruficollis</i>	Buff-breasted Sandpiper		M	<i>Loxigilla noctis</i>	Lesser Antillean Bullfinch	Less. Ant. endemic	
<i>Dendroica tigrina</i>	Cape May Warbler		M	<i>L. n. sclateri</i>		Saint Lucia endemic	R
<i>Fulica caribaea</i>	Carib Grackle			<i>Myiarchus oberi</i>	Lesser Antillean Flycatcher	Less. Ant. endemic	
<i>F. c. inflexirostris</i>		Saint Lucia endemic	R	<i>M. o. sanctaeluciae</i>		Saint Lucia endemic	R

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Scientific name	Common name	Status	Residency	Scientific name	Common name	Status	Residency
<i>Saltator albicollis</i>	Lesser Antillean Saltator	Less. Ant. endemic	R	<i>Dendroica delicata</i>	Saint Lucia Warbler	Saint Lucia endemic	R
<i>Chaetura martinica</i>	Lesser Antillean Swift	Less. Ant. endemic	R	<i>Troglodytes aedon</i>	House Wren		
<i>Aythya affinis</i>	Lesser Scaup		M	<i>T. a. mesoleucus</i>	Saint Lucia Wren	Saint Lucia endemic	R
<i>Tringa flavipes</i>	Lesser Yellowlegs		M	<i>Calidris alba</i>	Sanderling		M
<i>Egretta caerulea</i>	Little Blue Heron		R	<i>Thalasseus sandvicensis</i>	Sandwich Tern		M
<i>Egretta garzetta</i>	Little Egret		M	<i>Margarops fuscus</i>	Scaly-breasted Thrasher	Less. Ant. endemic	
<i>Fregata magnificens</i>	Magnificent Frigatebird		R	<i>M. f. schwartzi</i>		Saint Lucia endemic	R
<i>Coccyzus minor</i>	Mangrove Cuckoo		R	<i>Patagioenas squamosa</i>	Scaly-naped Pigeon	Caribbean endemic	R
<i>Sula dactylatra</i>	Masked Booby		R	<i>Charadrius semipalmatus</i>	Semipalmated Plover		M
<i>Nomonyx dominicus</i>	Masked Duck		R	<i>Calidris pusilla</i>	Semipalmated Sandpiper		M
<i>Falco columbarius</i>	Merlin		M	<i>*Leucopeza semperi</i>	Semper's Warbler	Saint Lucia endemic	R
<i>Parula americana</i>	Northern Parula		M	<i>Molothrus bonariensis</i>	Shiny Cowbird		R
<i>Anas acuta</i>	Northern Pintail		M	<i>Limnodromus griseus</i>	Short-billed Dowitcher		M
<i>Anas clypeata</i>	Northern Shoveler		M	<i>Crotophaga ani</i>	Smooth-billed Ani *		R
<i>Seiurus noveboracensis</i>	Northern Waterthrush		M	<i>Egretta thula</i>	Snowy Egret		R
<i>Pandion haliaetus</i>	Osprey		R and M	<i>Tringa solitaria</i>	Solitary Sandpiper		M
<i>Seiurus aurocapilla</i>	Ovenbird		M	<i>Puffinus griseus</i>	Sooty Shearwater		M
<i>Margarops fuscatus</i>	Pearly-eyed Thrasher	Caribbean endemic		<i>Sterna fuscata</i>	Sooty Tern		M
<i>M. f. klinikowski</i>		Saint Lucia endemic	R	<i>Porzana carolina</i>	Sora		R
<i>Calidris melanotos</i>	Pectoral Sandpiper		M	<i>Actitis macularius</i>	Spotted Sandpiper		M
<i>Falco peregrinus</i>	Peregrine Falcon		M	<i>Calidris himantopus</i>	Stilt Sandpiper		M
<i>Podilymbus podiceps</i>	Pied-billed Grebe		M	<i>Egretta tricolor</i>	Tricoloured Heron		R
<i>Protonotaria citrea</i>	Prothonotary Warbler		M	<i>Mimus gilvus</i>	Tropical Mockingbird		R
<i>Porphyrio martinica</i>	Purple Gallinule		R	<i>Calidris mauri</i>	Western Sandpiper		M
<i>Eulampis jugularis</i>	Purple-throated Carib	Less. Ant. endemic	R	<i>Numenius phaeopus</i>	Whimbrel		M
<i>Phaethon aethereus</i>	Red-billed Tropicbird		R	<i>Ramphocinclus brachyurus</i>	White-breasted Thrasher	Less. Ant. endemic	
<i>Sula sula</i>	Red-footed Booby		R	<i>R. b. sanctaeluciae</i>		Saint Lucia endemic	R
<i>Larus delawarensis</i>	Ring-billed Gull		R	<i>Calidris fuscicollis</i>	White-rumped Sandpiper		M
<i>Columba livia</i>	Rock Pigeon	Alien	R	<i>Phaethon lepturus</i>	White-tailed Tropicbird		R
<i>Sterna dougallii dougallii</i>	Roseate Tern		M	<i>Tringa semipalmata</i>	Willet		M
<i>Thalasseus maximus</i>	Royal Tern		M	<i>Dendroica petechia</i>	Yellow Warbler		
<i>Geotrygon montana</i>	Ruddy Quail-dove		R	<i>D. p. babad</i>		Saint Lucia endemic	R
<i>Arenaria interpres</i>	Ruddy Turnstone		M	<i>Coccyzus americanus</i>	Yellow-billed Cuckoo		M
<i>Caprimulgus rufus</i>	Rufous Nightjar			<i>Nyctanassa violace</i>	Yellow-crowned Night-heron		R
<i>C. r. otiosus</i>	Saint Lucia Nightjar	Saint Lucia endemic	R	<i>Dendroica coronata</i>	Yellow-rumped Warbler (Myrtle)		M
<i>Myadestes genibarbis</i>	Rufous-throated Solitaire	Caribbean endemic		<i>Vireo flavifrons</i>	Yellow-throated Vireo		M
<i>M. g. sanctaeluciae</i>		Saint Lucia endemic	R	<i>Zenaida aurita</i>	Zenaida Dove		R
<i>Amazona versicolor</i>	Saint Lucia Amazon	Saint Lucia endemic	R				
<i>Melanospiza richardsoni</i>	Saint Lucia Black Finch	Saint Lucia endemic	R				
<i>Icterus laudabilis</i>	Saint Lucia Oriole	Saint Lucia endemic	R				

Table H Mammals of Saint Lucia

* Species not seen since 1881 or earlier. Data from Clarke (2009).

Scientific Name	Common Names	Status
<i>Didelphis marsupialis</i>	Southern opossum	Alien
<i>Noctilio leporinus</i>	Greater fishing bat	
<i>Pteronotus davyi</i>	Davy's naked-backed bat	
<i>Ardops nichollsi</i>	Tree bat	Lesser Antillean endemic
<i>A. n. luciae</i>		Lesser Antillean endemic
<i>Artibeus jamaicensis</i>	Jamaican fruit bat	
<i>A. j. jamaicensis</i>		Caribbean endemic
<i>Brachyphylla cavernarum</i>	Antillean fruit bat	Caribbean endemic
<i>B.c. cavernarum</i>		Lesser Antillean endemic
<i>Monophyllus plethodon</i>	Insular long-tongued bat	
<i>M. p. luciae</i>		Lesser Antillean endemic
<i>Sturnira lilium</i>	Little yellow-shouldered bat	Lesser Antillean endemic
<i>S. l. luciae</i>	Saint Lucia yellow-shouldered bat	Saint Lucia endemic
<i>Tadarida brasiliensis</i>	Brazilian free-tailed bat	
<i>Molossus molossus</i>	Common free-tailed bat	
<i>M. m. molossus</i>		Lesser Antillean endemic
<i>Dasyprocta leporina</i>	Brazilian agouti	Alien
<i>Herpestes javanicus</i>	Small asian mongoose	Alien
<i>Sus scrofa</i>	Pig	Alien
<i>Rattus rattus</i>	Black rat	Alien
<i>Rattus norvegicus</i>	Brown rat	Alien
<i>Mus musculus</i>	House mouse	Alien
	Saint Lucian giant rice rat	Saint Lucia endemic