National Protected Area Systems Analysis Gap Analysis

Introduction:

A Gap Analysis tries to identify gaps in an existing system. In a protected areas gap analysis, this would translate to the question; "which conservation features (species, ecosystems, features or other) are not met within the existing protected areas system.

The principal source of information in the analysis was the 1:250.000 Belize Ecosystems Map (Meerman & Sabido, 2001). This map included all terrestrial ecosystems including some inland water ecosystems.

The Meerman & Sabido (2001) map, was essentially an update of the 1995 Vegetation map of Belize by Iremonger and Browkaw (1995). Meawhile, this Iremonger and Brokaw map borrowed heavily from the Natural Vegetation Map of Belize by Wright et al (1959).

For the marine part, there existed several draft versions of a marine habitat map (Mumby & Harborne, 1999). The scale of the latter map was much finer that that of the Belize Ecosystems Map which made it difficult to integrate it fully in an overall ecosystems map. Also, this marine habitat map existed only in a draft stage and uncertainties remained to which version was the most up to date.

To overcome the inconsistencies caused by the differences and reliability of both products, the various groups of habitats in the marine map were clustered as to represent their main classifications and this result was re-digitized into polygons with a minimum size of 1 acre.

The resulting product was updated and enriched using the following sources:

- Fieldwork data gathered by J. C. Meerman from 2001 through 2004. See http://biological-diversity.info/projects.htm
- Recent Landsat tm images: 1947 20040228; 1948 20040127 and 1949 2004 01 27
- Brokaw & Sabido, 1998. Vegetation of the Rio Bravo Conservation & Management Area.
- Murray et all, 1999. Soil-plant relationships and revised vegetation classification of Turneffe Atoll Belize.,
- Penn et all, 2004. Vegetation of the Greater Maya Mountains, Belize.
- MET department: Climatological data
- Cornec, 2003. Geology map of Belize
- The Belize Territorial waters extend follows the Maritime Areas Act, (GOB, 2000).

The final product being an all encompassing Belize Ecosystems Map¹ < ecosys_bze_2004b > (Meerman, 2005)(figure 2) on a scale of 1:100,000 incorporating the main terrestrial and marine ecosystems (including deep sea habitats). In total 96 ecosystems were thus mapped:

¹ ArcView shapefile available on resource data CD

- 65 Terrestrial classes
- 14 Marine classes
- 7 Agriculture / silviculture / mariculture classes
- 6 Mangrove classes
- 3 Inland water classes
- 1 Urban class

A visualization of the process is presented in Figure 1.

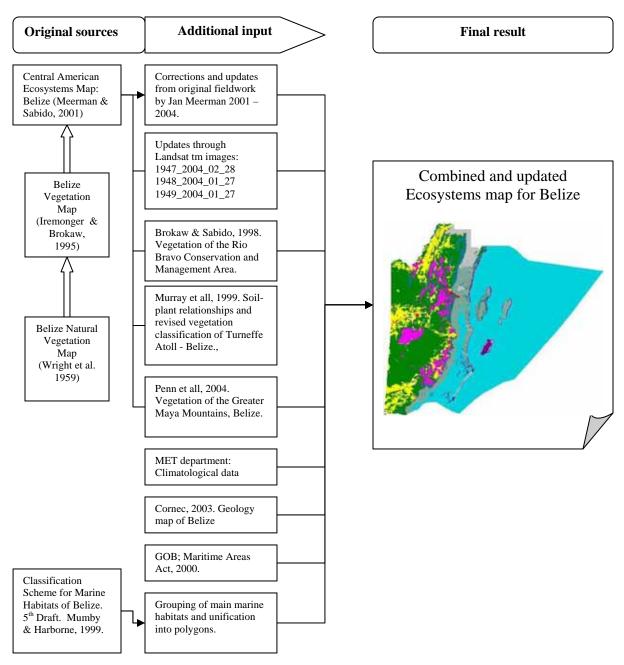


Figure 1. Flowchart showing process leading to updated 2004 Ecosystems Map of Belize

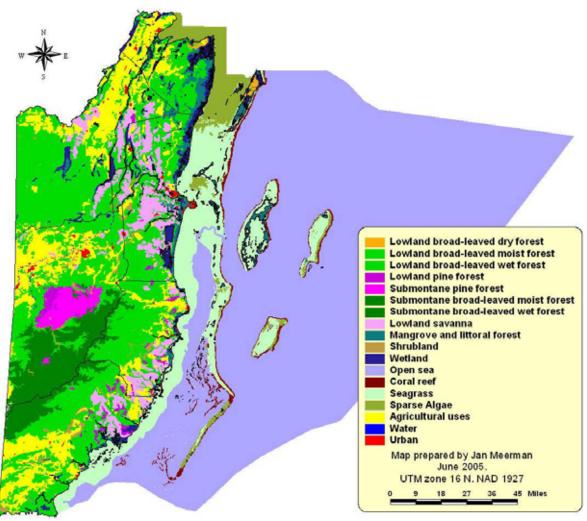


Figure 2. Ecosystems map of Belize - version 2004b (Meerman, 2005). For reasons of scale, the 96 ecosystems have been grouped into 16 broad ecosystem classes.

An ecosystem is the complex of living organisms, their physical environment, and all their interrelationships in a particular unit of space. Since vegetation patterns are at the base of the biological environment. Vegetation patterns have been chosen as "proxy" for ecosystems. And since actual distribution patterns and data for specific species are scarce and generally incomplete, ecosystems have been taken as a proxy for biodiversity patterns. For this reason, the current gap analysis will look at ecosystems only. Other biodiversity indicators will be discussed under the MARXAN analysis².

² See that document

Methodology

Using GIS with the protected areas layer³ < PA20050615> as an overlay on this ecosystem map, it was possible to calculate the coverage (in acres and in hectares) for each ecosystem within the respective protected areas.

The result is table 2 which can be found at the end of this document. This table incorporates 81 protected areas and calculates the surface of the ecosystems mapped for each protected area. Not all protected areas were analyzed in this way. The 1:100,000 scale of the 2004 ecosystem map does not lend itself for small scale analysis and for this reason the tiny bird sanctuaries and several of the smaller archaeological reserves could not be incorporated in this analysis. Note also that some slight discrepancies may exist due to the fact that several of the Spawning aggregations partly fall within other marine reserves.

Fundamental in this analysis was the underlying thought that a minimum area will be required for each habitat/ecosystem. The World Conservation Union (IUCN) recommends a minimum of 10% under protection for each habitat. Theoretically, this would enable the survival of 50 - 70% of the extant species. The Selva Maya, Zoque and Olmec Ecoregional Planning initiative⁴ used a minimum of 30% which would allow the survival of 65 - 85% of the species (see Figure 3).

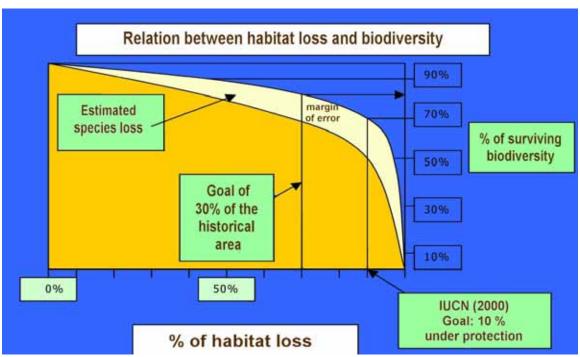


Figure 3. Relation between habitat loss and biodiversity. Addapted from The Selva Maya, Zoque and Olmec Ecoregional Planning initiative, 2004

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³ ArcView shapefile available on resource CD

⁴ Reports available on resource CD

However, it was felt that the 10% - 30% targets were too arbitrary. There are certain ecosystems that would require more protection than just 10-30%. For example, a very rare ecosystem occurring only on 5 locations with a combined cover of 2000 acres is not served with 10 or even 30 % protection. For such ecosystems, the target should be much higher, but was set not to exceed 95%. Also, there are ecosystems that provide vital environmental services; these too need a higher target. Some ecosystems are not suitable for any type of development and by default are best preserved. Consequently should be identified as conservation targets. Other important functions could also lead to a higher target setting. Throughout a minimum target setting of 30% was maintained. In particular, the marine working group of the consortium set a standard 30% target for most marine conservation features.

With fixed conservation targets considered too arbitrary, a system needed to be developed that establishes which criteria should be used for setting this target. Such criteria need to be easy to identify using existing data. Criteria used to establish ecosystem – bioregion targets were:

- Slope: Areas with steep slopes are unsuitable for development and have high erosion risks. Consequently, by default, such areas received high conservation marks. Information was derived from a 90 m Digital Elevation Model (DEM) for Belize.
- Rarity: Ecosystems with coverage of < 5,000 acres were considered "rare". Ecosystems with coverage of 5,000-25,000 acres "uncommon" and ecosystems with 25,000 100,000 acres "fairly uncommon" and 100,000 1,000,000 acres: "common". The rarest ecosystems received the highest conservation ranks. Information is based on the 2004 ecosystems map (Meerman, 2005).
- Count: Representing the number of polygons for this ecosystem. Anything under a count of 10 polygons received a slightly higher conservation rank. Information is based on the 2004 ecosystems map (Meerman, 2005).
- Environmental Services: In some cases these are particularly pronounced. Example: Coastal fringe mangroves and Riverine mangroves (erosion control, nurseries). Environmental services with relation to watershed protected are essentially covered under "slope". Information is based on the 2004 ecosystems map (Meerman, 2005).
- Timber: Some forest types are more important for timber production than others. This is reflected in extra points for timber production. Mahogany rich forests rank highest. Information is based on the 2004 ecosystems map (Meerman, 2005). No other good data exist for this timber analysis. Ideally, all the primary and secondary timber species should be included in this analysis. The current criterion should be seen as a first attempt to quantify production forests.
- Fisheries: Ecosystems particularly important for fisheries are covered here.
- Endemic species: Belize is not particularly rich in endemic species. However there seem to be 2 ecosystems that harbor the bulk of the endemic species (Steep Karts hills and Savanna's)
- Last of the wild: The analysis by Ramos (2004) identified to large contiguous areas of more or less intact habitat that were particularly important for conservation and then specifically for species requiring large areas of intact habitat. The ecosystems covered by this analysis are covered here.

- Low agricultural value: Areas with very low agricultural value are less suitable for agricultural development. Consequently, by default, such areas received higher conservation marks. Information based on King et al. 1992
- Wetlands: Wetlands are considered important locations for biodiversity and water control. Consequently, wetlands received extra conservation marks. Information is based on the 2004 ecosystems map (Meerman, 2005).

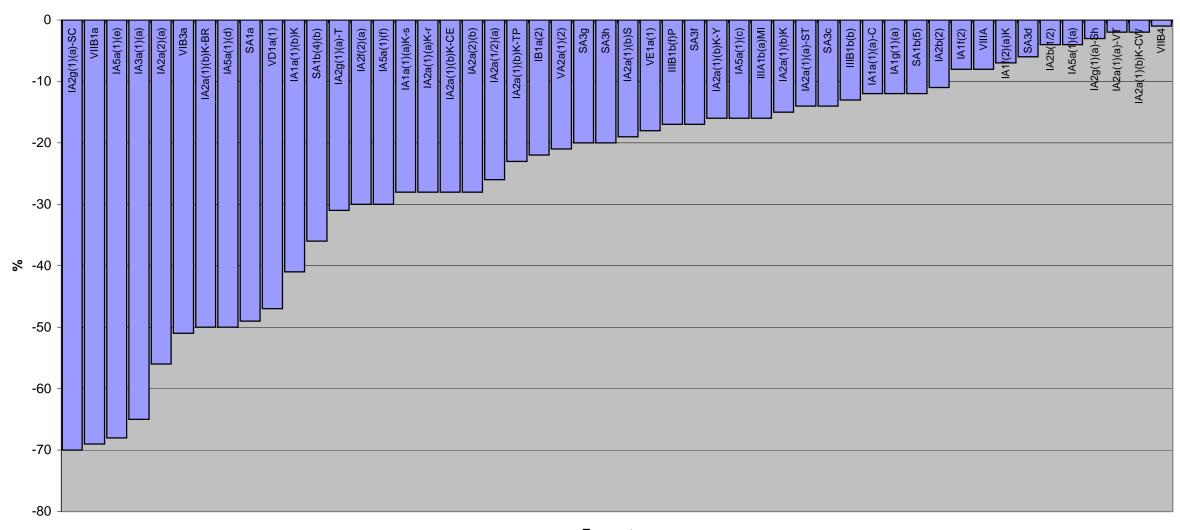
Based on the above criteria, the various terrestrial and marine ecosystems were awarded conservation targets varying from 30% to 95%. Some ecosystems would actually reach conservation targets of more than 100% based on their combined criteria. However, for purposes of the analysis, it was decided that a conservation target of 100% would essentially "lock" the target and this would not be conform the decision to use a "seeded" method rather than a "locked" method. For this reason, the maximum target percentage was set as 95%. For an explanation of these terminologies see the MARXAN Analysis paper⁵.

Table 3 at the end of the document lists all ecosystem conservation features with their targets including the rationale for these different targets.

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⁵ Included as a document on the resource CD

Graphic 1: Conservation feature targets not met within existing protected area system



Ecosystem

Graphic 2: Set conservation feature targets exceeded within existing Protected Area system

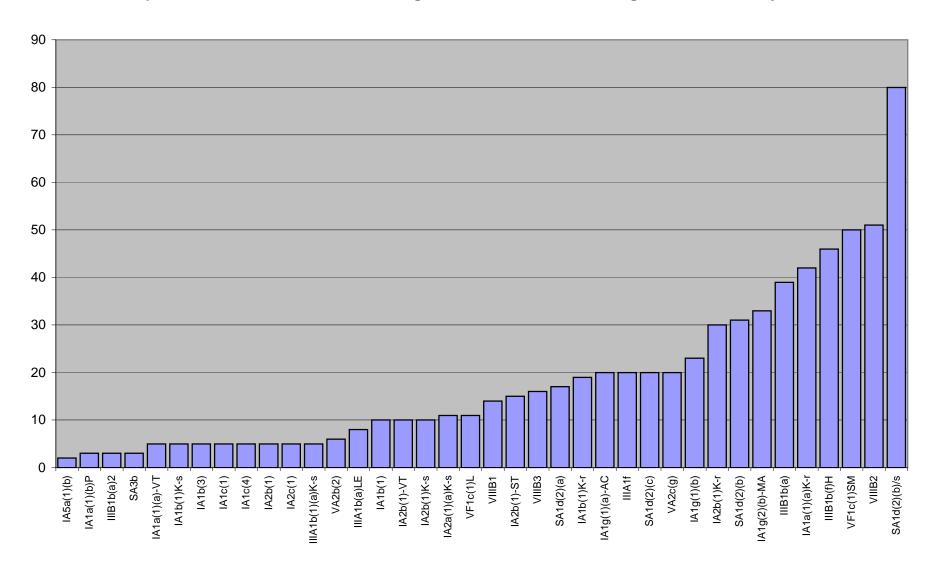


Table 1. The most important ecosystems within the existing Protected Areas System

Scoring rationale

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Unesco Code IA1a(1)(a)K-s	MARXAN data file#	Number of Polygons	Ecosystem Description Tropical evergreen broad-leaved lowland hill forest on steep karstic terrain	edolS 40	8 8 8 9 9 9 9 9 9 9 9 9 9	Count	Env-serv	Timber	Fisheries	0 Endemics	0 Last-wild	Low Ag	Wetland	% Total	≋%Target	85- Discrep.
IA1a(1)(b)K	305	9	Tropical evergreen broad-leaved lowland forest on calcareous soils		50	10		20						80	80	-41
IA2a(1)(a)K-r	308	4	Tropical evergreen broad-leaved submontane forest on rolling karstic hills		30	10		20			10	10		80	80	-28
IA2a(1)(b)K- BR	324	6	Tropical evergreen seasonal broad-leaved lowland forest on calcareous soils, Belize River variant		20	10		20						50	50	-50
IA2a(1)(b)K- CE	325	15	Tropical evergreen seasonal broad-leaved lowland forest on calcareous soils, Central Eastern variant					40						40	40	-28
IA2a(1)(b)K- TP	327	32	Tropical evergreen seasonal broad-leaved lowland forest on calcareous soils, Tehuantepec-Peten variant					40			10			50	50	-23
IA2a(1/2)(a)	330	4	Tropical evergreen seasonal mixed lowland hill forest	40	50	10		20						120	95	-26
IA2a(2)(a)	331	4	Tropical evergreen seasonal needle-leaved lowland hill forest		40	10		20						70	70	-56
IA2a(2)(b)	332	40	Tropical evergreen seasonal needle-leaved lowland forest		20			20			10			50	50	-28
IA2f(2)(a)	341	51	Tropical evergreen seasonal broad-leaved alluvial forest		30			20						50	50	-30
IA2g(1)(a)-SC	342	6	Tropical evergreen seasonal broad-leaved lowland swamp forest, Stann Creek variant		50	10						10		70	70	-70
IA2g(1)(a)-T	344	183	Tropical evergreen seasonal broad-leaved lowland swamp forest, tall variant					20			10	10		40	40	-31
IA3a(1)(a)	345	4	Tropical semi-deciduous broad-leaved lowland forest		40	10		20				10		80	80	-65
IA5a(1)(d)	349	456	Caribbean mangrove forest; coastal fringe mangrove		20		20					10	10	60	60	-50
IA5a(1)(e)	350	51	Caribbean mangrove forest; riverine mangrove		40		20					10	10	80	80	-68
IA5a(1)(f)	351	91	Caribbean mangrove forest; basin mangrove		30							10	10	50	50	-30
IB1a(2)	352	4	Tropical deciduous microphyllous lowland forest		50	10						10		70	70	-22
SA1a	362	17	River		40							10	10	60	60	-49
SA1b(4)(b)	363	58	Freshwater Lake		40							10	10	60	60	-36
SA3c	NA	1	Caribbean open sea			10			10					20	20	-14
SA3f	372	1	Caribbean open sea - mesopelagic/bathyal			10			10					20	20	-17
SA3g	373	2	Caribbean open sea - bathyal			10			10					20	20	-20
SA3h	374	1	Caribbean open sea - abyssal			10			10					20	20	-20
VA2a(1)(2)	375	50	Short-grass savanna with scattered needle-leaved trees					20		10		10		40	40	-21
VD1a(1)	378	6	Eleocharis marsh. Note: Probably not as badly under protected as indicated. Ecosystem often small and included as patches in other ecosystems.		30							10	10	50	50	-47
VIB3a	391	31	Tropical coastal vegetation on recent sediments (Littoral Forest)		50		10							60	60	-51
VIIB1a	392	7	Tropical freshwater reed-swamp		50	10							10	70	70	-69

Findings

By comparing the target values for each ecosystem (table 3) with the actual coverage within each ecosystem (table 2), the gaps in the system become immediately obvious.

Graphic 1 visualizes the ecosystems that are insufficiently met under the current Protected Areas System, while Graphic 2 shows those ecosystems that currently exceed the set conservation feature targets. It is clear that certain ecosystems are under-represented in the system. The 27 most under-represented ecosystems (as identified by a discrepancy of 20% or more) are summarized in table 1.

Some ecosystems are currently not covered at all within the Protected Areas System (discrepancy and target% identical) or do not even meet the 10% minimum IUCN requirement. These include:

- IA2a(1)(b)K-BR (Tropical evergreen seasonal broad-leaved lowland forest on calcareous soils, Belize River variant). This is an ecosystem in the Belize River valley and mostly if not entirely found on private property.
- IA2g(1)(a)-T (Tropical evergreen seasonal broad-leaved lowland swamp forest, tall variant)
- IA2g(1)(a)-SC (Tropical evergreen seasonal broad-leaved lowland swamp forest, Stann Creek variant). This is a poorly researched ecosystem in the Stann Creek district. There is a potential for including some of this in the protected areas system by expansion of the Gra Gra Lagoon National Park. See case study⁶.
- **VIB3a** (Tropical coastal vegetation on recent sediments). This more commonly known as "littoral forest". Considered a very important habitat (migratory birds) but located on some of the most coveted real estate.
- **SA3c** (Caribbean open sea) This and the following ecosystem are deep water ecosystems located outside the reef. Virtually no data exist on this huge ecosystem.
- SA3f (Caribbean open sea mesopelagic/bathyal). See above
- SA3g (Caribbean open sea bathyal). See above.
- SA3h (Caribbean open sea abyssal). See above.
- **SA1A** (River) is included in some of the protected area layers but it is unclear whether rivers within protected areas are actually included within the protection. It could very well be that this ecosystem is another one that is essentially not covered within the current system.

Attention should be called to:

- **VD1a(1)** (Eleocharis marsh) and
- **VIIB1a** (Tropical freshwater reed-swamp).

⁶ Included as a document on the resource CD

These are ecosystems that occur as patches within a number of other ecosystems but the patches are too small to be mapped on the 1:100.000 scale. Consequently, these ecosystems are probably not as under-protected as indicated here.

The same caution should be taken with:

- IA5a(1)(d) Caribbean mangrove forest; coastal fringe mangrove
- IA5a(1)(e) Caribbean mangrove forest; riverine mangrove

Both are narrow linear features in the landscape and consequently subject to mapping problems. As a result, coverage should be taken as indication only. Nevertheless, the fact that these ecosystems were analyzed as under-protected indicates that these ecosystems important for the environmental services they provide should be looked at closely during a conservation planning/implementation phase. It has to be noted that Mangroves already enjoy a certain form of protection under the "Protection of Mangrove" regulations of 1989.

Overlaying the most recent protected areas map on a map indicating the principal under-represented ecosystems gives a good visual presentation of where these under-presented ecosystems are located (figure 4). Largest gaps appear to be in the Northern Belize District, the Southern Orange Walk District and the eastern Cayo Districts. Notice that this map only shows the extend of these conservation features and not which areas need to be selected for conservation. For a rationalization of these data, the MARXAN methodology⁷ was followed.

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⁷ See separate paper included on resource CD

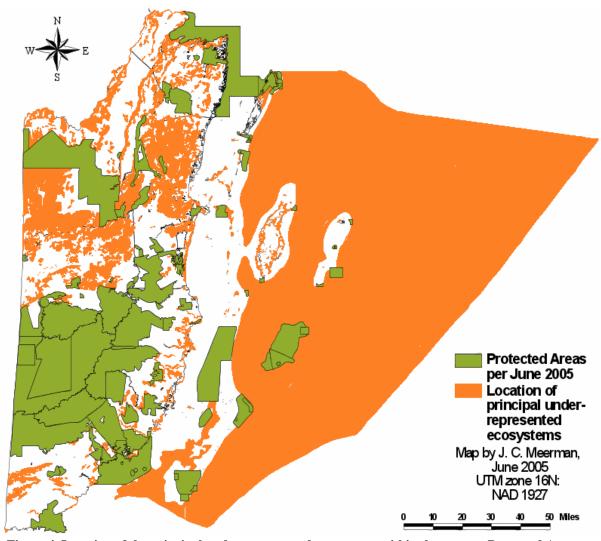


Figure 4. Location of the principal under-represented ecosystems within the current Protected Areas System. Note that this map does not indicate areas to be preserved!

Contame Part		A1a(1)(a)-C	A1a(1)(a)-VT	A1a(1)(a)K-r	IA1a(1)(a)K-s	IA1a(1)(b)K	IA1a(1)(b)P	IA1b(1)	lA1b(1)K-r	A1b(1)K-s
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Rocky Point SA Runaway Creek Sandbore SA Sapodilla Cayes MR Sarstoon-Temash NP 3,423 3,058 Seal Caye SA Shipstern Nature Reserve Sibun FR Silk Cayes MR Sittee River FR South Point Lighthouse SA South Point Turneffe SA South Point Turneffe SA South Water Caye MR Spanish Creek WS St. Herman's Blue Hole NP Swallow Caye WS Swasey-Bladen FR Tapir Mountain NR Thousand Foot Falls NM Vaca FR Victoria Peak NM In PA's 15,368 20,486 49,814 48,181 1,832 55,057 64,426 28,745 31,990 National total 22,720 20,486 54,346 92,939 4,671 164,828 64,426 28,993 31,995 National total 80 95 50 80 80 30 90 80 95 80										
Runaway Creek Sandbore SA Sapodilla Cayes MR Sarstoon-Temash NP 3,423 3,423 3,423 3,058 Seal Caye SA Shipstern Nature Reserve Sibun FR Silk Cayes MR Sittee River FR South Point Lighthouse SA South Point Turneffe SA South Point Turneffe SA South Water Caye MR Spanish Creek WS St. Herman's Blue Hole NP Swallow Caye WS Swassey-Bladen FR Tapir Mountain NR Thousand Foot Falls NM Vaca FR Victoria Peak NM In PA's 15,368 20,486 49,814 48,181 1,832 55,057 64,426 28,745 31,990 National total 22,720 20,486 54,346 92,939 4,671 164,828 64,426 28,993 31,995 National total 22,720 20,486 54,346 92,939 4,671 164,828 64,426 28,993 31,995 National total 80 95 50 80 80 30 90 80 95 85										
Sarpodilla Cayes MR Sarstoon-Temash NP 3,423 Seal Caye SA Shipstern Nature Reserve Sibun FR Silk Cayes MR Sittee River FR South Point Lighthouse SA South Point Turneffe SA South Point Turneffe SA South Water Caye MR Spanish Creek WS St. Herman's Blue Hole NP Swallow Caye WS Swassey-Bladen FR Tapir Mountain NR Thousand Foot Falls NM Vaca FR Victoria Peak NM In PA's 15,368 20,486 49,814 48,181 1,832 55,057 64,426 28,745 31,990 National total 67,6 100.0 91,7 518,8 39,2 33.4 100.0 99,1 100.0 7arget set 80 95 50 80 80 80 80 80 80 80 80 80 80 80 80 80										
Sarstoon-Temash NP										
Seal Caye SA		3,423					3,058			
Sibun FR Silk Cayes MR Sittee River FR South Point Lighthouse SA South Point Lighthouse SA South Point Turneffe SA South Water Caye MR Spanish Creek WS St. Herman's Blue Hole NP Swallow Caye WS Swasey-Bladen FR Tapir Mountain NR Thousand Foot Falls NM Vaca FR Victoria Peak NM In PA's 15,368 20,486 49,814 48,181 1,832 55,057 64,426 28,745 31,990 National total 22,720 20,486 54,346 92,939 4,671 164,628 64,426 28,993 31,995 National total 67,6 100.0 91.7 51.8 39.2 33.4 100.0 99.1 100.0 Target set 80 95 50 80 80 80 30 90 80 95	Seal Caye SA									
Silk Cayes MR Sittee River FR South Point Lighthouse SA South Point Lighthouse SA South Point Turneffe SA South Water Caye MR Spanish Creek WS St. Herman's Blue Hole NP Swallow Caye WS Swasey-Bladen FR Tapir Mountain NR Thousand Foot Falls NM Vaca FR Victoria Peak NM In PA's 15,368 20,486 49,814 48,181 1,832 55,057 64,426 28,745 31,990 National total 2,2720 20,486 54,346 92,939 4,671 164,828 64,426 28,993 31,995 National total 67,6 100.0 95 50 80 80 30 90 80 95										
South Point Lighthouse SA South Point Turneffe SA South Water Caye MR Spanish Creek WS St. Herman's Blue Hole NP Swallow Caye WS Swasey-Bladen FR 2,463 2,463 Tapir Mountain NR Thousand Foot Falls NM Vaca FR Victoria Peak NM In PA's 15,368 20,486 49,814 48,181 1,832 55,057 64,426 28,745 31,990 National total 2,2720 20,486 54,346 92,939 4,671 164,828 64,426 28,933 31,995 National total 67,6 100.0 91.7 51.8 39.2 33.4 100.0 99.1 100.0 Target set 80 95 50 80 80 80 30 90 80 95 95 80 80 80 80 95 80 80 80 95 80 80 80 80 80 80 80 8	Silk Cayes MR									
South Point Turneffe SA South Water Caye MR Spanish Creek WS St. Herman's Blue Hole NP Swallow Caye WS Swasey-Bladen FR Tapir Mountain NR Thousand Foot Falls NM Vaca FR Victoria Peak NM In PA's 15,368 20,486 49,814 48,181 1,832 55,057 64,426 28,745 31,990 National total 22,720 20,486 54,346 92,939 4,671 164,628 64,426 28,993 31,995 National total 67.6 100.0 91.7 51.8 39.2 33.4 100.0 99.1 100.0 Target set 80 95 50 80 80 80 30 90 80 95 95 80 80 80 80 80 95 80 80 80 80 80 80 80 8										
Spanish Creek WS St. Herman's Blue Hole NP Swallow Caye WS Swasey-Bladen FR 2,463 2,463 Tapir Mountain NR Thousand Foot Falls NM Vaca FR Victoria Peak NM In PA's 15,368 20,486 49,814 48,181 1,832 55,057 64,426 28,745 31,990 National total 22,720 20,486 54,346 92,939 4,671 164,828 64,426 28,993 31,995 4,671 164,828 64,426 28,993 31,995										
St. Herman's Blue Hole NP Swallow Caye WS Swasey-Bladen FR Tapir Mountain NR Thousand Foot Falls NM Vaca FR Victoria Peak NM In PA's 15,368 20,486 49,814 48,181 1,832 55,057 64,426 28,745 31,990 National total 2,720 20,486 54,346 92,939 4,671 164,628 64,426 28,993 31,995 National total 67.6 100.0 91.7 51.8 39.2 33.4 100.0 99.1 100.0 Target set 80 95 50 80 80 80 30 90 88 95										
Swallow Caye WS Swasey-Bladen FR 2,463 Tapir Mountain NR Thousand Foot Falls NM Vaca FR Victoria Peak NM In PA's 15,368 20,486 49,814 48,181 1,832 55,057 64,426 28,745 31,990 National total 22,720 20,486 54,346 92,939 4,671 164,828 64,426 28,993 31,995 % in PA's 67.6 100.0 91.7 51.8 39.2 33.4 100.0 99.1 100.0 Target set 80 95 50 80 80 30 90 80 95										
Tapir Mountain NR Thousand Foot Falls NM Vaca FR Victoria Peak NM In PA's 15,368 20,486 49,814 48,181 1,832 55,057 64,426 28,745 31,990 National total 22,720 20,486 54,346 92,939 4,671 164,828 64,426 28,993 31,995 % in PA's 67.6 100.0 91.7 51.8 39.2 33.4 100.0 99.1 100.0 Target set 80 95 50 80 80 80 30 90 80 95										
Thousand Foot Falls NM Vaca FR Victoria Peak NM In PA's 15,368 20,486 49,814 48,181 1,832 55,057 64,426 28,745 31,990 National total 22,720 20,486 54,346 92,939 4,671 164,828 64,426 28,993 31,995 (9 PA's 67.6 100.0 91.7 51.8 39.2 33.4 100.0 99.1 100.0 Target set 80 95 50 80 80 80 30 90 80 80 95							2,463			
Victoria Peak NM In PA's 15,368 20,486 49,814 48,181 1,832 55,057 64,426 28,745 31,990 National total 22,720 20,486 54,346 92,939 4,671 164,828 64,426 28,993 31,995 % in PA's 67.6 100.0 91.7 51.8 39.2 33.4 100.0 99.1 100.0 Target set 80 95 50 80 80 30 90 80 95	Thousand Foot Falls NM									
In PA's 15,368 20,486 49,814 48,181 1,832 55,057 64,426 28,745 31,990 National total 22,720 20,486 54,346 92,939 4,671 164,828 64,426 28,993 31,995 Na PA's 67.6 100.0 91.7 51.8 39.2 33.4 100.0 99.1 100.0 Target set 80 95 50 80 80 30 90 80 95										
% in PA's 67.6 100.0 91.7 51.8 39.2 33.4 100.0 99.1 100.0 Target set 80 95 50 80 80 30 90 80 95	In PA's									
Target set 80 95 50 80 80 30 90 80 95										
				42		(41)		10	19	

	<u>8</u>	e		.	A1f(2)(a)K	1)(a)	IA1g(1)(a)-AC	1)(b)	A1g(2)(b)-MA
	IA1b(3)	IA1c(1)	IA1c(4)	IA1f(2)	A1 f(2	M1g(1)(a)	41g(IA1g(1)(b)	41g(
Actun Tunichil Muknal NM Aguacaliente WS Aguacate Lagoon Aguas Turbias NP Bacalar Chico MR	3	2	2	2	2	889	1,082	2	3
Bacalar Chico NP Barton Creek Billy Barquedeer NP Bladen NR Block 127	22,307	446	556		6,986 207				
Blue Hole NM Burdon Canal NR Cahal Pech Caracol Caye Caulker FR Caye Caulker MR					201				
Chiquibul FR Chiquibul NP	1,940	1,692	985						
Cockscomb Basin WS Columbia River FR	5,542				955 1,310				
Community Baboon Sanctuary Corozal Bay WS Crooked Tree WS									
Deep River FR Dog Flea SA					1,650				
EI Pilar Emily or Caye Glory SA Five Blues Lake NP Fresh Water Creek FR Gales Point WS									
Gladden Spit SA Gladden Spit and Silk Cayes MR Glovers Reef MR									
Golden Stream Gragra Lagoon NP					1,916				
Grants Works FR Guanacaste NP Halfmoon Caye NM									
Hol Chan MR Honey Camp NP Lamanai									
Laughing Bird Caye NP Machaca FR Manatee FR						17			
Mango Creek (1) FR Mango Creek (4) FR Maya Mountain FR Mayflower Bocawina NP Monkey Bay NP				1,645	107 395				
Monkey Bay Monkey Caye FR Mountain Pine Ridge FR				875	182				
Nicholas Caye SA Nojkaaxmeen Eligio Panti NP Northern Glovers Reef SA Payne's Creek NP				651	3,010				
Port Honduras MR Rio Blanco NP Rio Bravo C&MA Rise and Fall Bank SA									
Rocky Point SA Runaway Creek Sandbore SA Sapodilla Cayes MR									
Sarstoon-Temash NP Seal Caye SA Shipstern Nature Reserve						12,936		7,026	5,681
Sibun FR Silk Cayes MR Sittee River FR South Point Lighthouse SA South Point Turneffe SA									
South Point I urnerie SA South Water Caye MR Spanish Creek WS St. Herman's Blue Hole NP Swallow Caye WS Swasey-Bladen FR Tapir Mountain NR									
Thousand Foot Falls NM Vaca FR Victoria Peak NM									
In PA's National total	29,789 29,789	2,138 2,138	1,541 1,541	3,171 6,094	16,718 31,423	13,841 49,770	1,082 1,082	7,026 8,477	5,681 6,092
% in PA's Target set Discrepancy	100.0 95 5	100.0 95 5	100.0 95 5	52.0 60 (8)	53.2 60 (7)	27.8 40 (12)	100.0 80 20	82.9 60 23	93.3 60 33

	IA2a(1)(a)-ST	IA2a(1)(a)-VT	M2a(1)(a)K-r	/A2a(1)(a)K-s	IA2a(1)(b)K	IA2a(1)(b)K-BR	IA2a(1)(b)K-CE	IA2a(1)(b)K-CW	IA2a(1)(b)K-TP
Actun Tunichil Muknal NM	-	-	278	_	172	_	_	_	-
Aguacaliente WS Aguacate Lagoon									214
Aguas Turbias NP									5,089
Bacalar Chico MR Bacalar Chico NP									
Barton Creek									
Billy Barquedeer NP Bladen NR	1,586		14						
Block 127			14						
Blue Hole NM									
Burdon Canal NR Cahal Pech									
Caracol			7,096	12,095					
Caye Caulker FR Caye Caulker MR									
Chiquibul FR	4,015		1,177	2,944					
Chiquibul NP	20,216	4.400	7,458	24,472					
Cockscomb Basin WS Columbia River FR	58,558	4,168	3,899						
Community Baboon Sanctuary					4,112		1,406		
Corozal Bay WS Crooked Tree WS							1,213		
Deep River FR							1,210		
Dog Flea SA El Pilar									37
Emily or Caye Glory SA									31
Five Blues Lake NP				880	2,842				
Fresh Water Creek FR Gales Point WS									
Gladden Spit SA									
Gladden Spit and Silk Cayes MR Glovers Reef MR									
Golden Stream									
Gragra Lagoon NP									
Grants Works FR Guanacaste NP									
Halfmoon Caye NM									
Hol Chan MR Honey Camp NP									
Lamanai								750	
Laughing Bird Caye NP Machaca FR									
Manatee FR	34,021	2,136	682	21,225	11,113				
Mango Creek (1) FR	1,335				1,648				
Mango Creek (4) FR Maya Mountain FR	21,752	858		4					
Mayflower Bocawina NP	7,084								
Monkey Bay NP Monkey Bay				1,344	190				
Monkey Caye FR									
Mountain Pine Ridge FR Nicholas Caye SA				12,908					
Nojkaaxmeen Eligio Panti NP				9,780					
Northern Glovers Reef SA									
Payne's Creek NP Port Honduras MR									
Rio Blanco NP					474		40.000	00.404	00.007
Rio Bravo C&MA Rise and Fall Bank SA					174		10,928	63,164	82,887
Rocky Point SA				0.400	200				
Runaway Creek Sandbore SA				2,196	268				
Sapodilla Cayes MR									
Sarstoon-Temash NP Seal Caye SA									
Shipstern Nature Reserve									
Sibun FR Silk Cayes MR	16,457	8,858	3,796		21				
Sittee River FR	27,991	47,824							
South Point Lighthouse SA									
South Point Turneffe SA South Water Caye MR									
Spanish Creek WS			450	011	32		4,682		
St. Herman's Blue Hole NP Swallow Caye WS			450	214					
Swasey-Bladen FR									
Tapir Mountain NR Thousand Foot Falls NM	571 344		4,613		77				850
Vaca FR				27,606					462
Victoria Peak NM In PA's	782 194,711	561 64,405	29,464	115,669	20,649	0	18,229	63,914	89,538
National total	296,914	68,967	92,543	163,958	84,181	41,090	147,368	133,983	337,577
% in PA's	65.6	93.4	31.8	70.5	24.5	0.0	12.4	47.7	26.5
Target set Discrepancy	80 (14)	95 (2)	60 (28)	60 11	40 (15)	50 (50)	40 (28)	50 (2)	50 (23)

	A2a(1)(b)K-Y	A2a(1)(b)S	A2a(1/2)(a)	A2a(2)(a)	A2a(2)(b)	IA2b(1)	A2b(1)-ST	A2b(1)-VT	A2b(1)K-r
Actun Tunichil Muknal NM	⋖	≤	≤	₹	≤	₹	₹	≤	≤
Aguacaliente WS									
Aguacate Lagoon									
Aguas Turbias NP									
Bacalar Chico MR Bacalar Chico NP									
Barton Creek									
Billy Barquedeer NP									
Bladen NR							943		
Block 127 Blue Hole NM									
Burdon Canal NR		274							
Cahal Pech		214							
Caracol									785
Caye Caulker FR									
Caye Caulker MR							16 100	12.062	64.000
Chiquibul FR Chiquibul NP							16,188 71,190	13,963 50,762	61,099 9,982
Cockscomb Basin WS		13,827					8,904	22,496	0,002
Columbia River FR									
Community Baboon Sanctuary									
Corozal Bay WS Crooked Tree WS									
Deep River FR									
Dog Flea SA									
El Pilar									
Emily or Caye Glory SA									
Five Blues Lake NP Fresh Water Creek FR	04 000								
Gales Point WS	21,239								
Gladden Spit SA									
Gladden Spit and Silk Cayes MR									
Glovers Reef MR									
Golden Stream		2							
Gragra Lagoon NP Grants Works FR		3 1,703			2,617				
Guanacaste NP		1,700			2,017				
Halfmoon Caye NM									
Hol Chan MR									
Honey Camp NP	4,363								
Lamanai Laughing Bird Caye NP									
Machaca FR									
Manatee FR		131			2,179				
Mango Creek (1) FR		153			650				
Mango Creek (4) FR					200				
Maya Mountain FR		563			1,416			2,167	
Mayflower Bocawina NP Monkey Bay NP		675							
Monkey Bay		070							
Monkey Caye FR									
Mountain Pine Ridge FR			630						14,627
Nicholas Caye SA				0.470					
Nojkaaxmeen Eligio Panti NP Northern Glovers Reef SA			14	2,476					
Payne's Creek NP									
Port Honduras MR									
Rio Blanco NP									
Rio Bravo C&MA		319							
Rise and Fall Bank SA Rocky Point SA									
Runaway Creek		2,896							
Sandbore SA		_,							
Sapodilla Cayes MR									
Sarstoon-Temash NP									
Seal Caye SA Shipstern Nature Reserve	2,442								
Sibun FR	2,442			723			6,643	28,716	
Silk Cayes MR							5,515		
Sittee River FR							1,579	14,535	
South Point Lighthouse SA									
South Point Turneffe SA									
South Water Caye MR Spanish Creek WS									
St. Herman's Blue Hole NP									
Swallow Caye WS									
Swasey-Bladen FR					2,689				
Tapir Mountain NR									
Thousand Foot Falls NM Vaca FR				3			119		
Vaca FR Victoria Peak NM				3		255		3,217	
In PA's	28,044	20,544	643	3,201	9,751	255	105,566	135,855	86,493
National total	116,962	65,910	935	22,986	44,400	255	111,487	135,857	71,866
% in PA's	24.0	31.2	68.8	13.9	22.0	100.0	94.7	100.0	120.4
Target set	40 (16)	50 (19)	95 (26)	70 (56)	50 (28)	95 5	80 15	90 10	90 30
Discrepancy	(10)	(19)	(20)	(30)	(20)	э	10	10	30

	A2b(1)K-s	A2b(1/2)	A2b(2)	M2c(1)	A2f(2)(a)	IA2g(1)(a)-SC	IA2g(1)(a)-Sh	IA2g(1)(a)-T	A3a(1)(a)
Actun Tunichil Muknal NM	_	_	_	_	_	_	_	_	_
Aguacatiente WS								47	
Aguacate Lagoon Aguas Turbias NP							2,313	1,007	
Bacalar Chico MR							,	,	
Bacalar Chico NP									
Barton Creek Billy Barquedeer NP									
Bladen NR									
Block 127									
Blue Hole NM							20		
Burdon Canal NR Cahal Pech							28		
Caracol	2,626								
Caye Caulker FR									
Caye Caulker MR Chiquibul FR	43,007		2,592						
Chiquibul NP	25,713	3,152	2,592						
Cockscomb Basin WS									
Columbia River FR									
Community Baboon Sanctuary Corozal Bay WS									
Crooked Tree WS			1,585				11,521	1,646	
Deep River FR									
Dog Flea SA El Pilar									
Emily or Caye Glory SA									
Five Blues Lake NP									
Fresh Water Creek FR							1,738	1,384	
Gales Point WS Gladden Spit SA									
Gladden Spit and Silk Cayes MR									
Glovers Reef MR									
Golden Stream									1,820
Gragra Lagoon NP Grants Works FR						1			
Guanacaste NP									
Halfmoon Caye NM									
Hol Chan MR							105	2 420	
Honey Camp NP Lamanai							195	3,138 185	
Laughing Bird Caye NP								.00	
Machaca FR									
Manatee FR Mango Creek (1) FR							8,959	2,321	
Mango Creek (1) FR								2,321	
Maya Mountain FR									
Mayflower Bocawina NP									
Monkey Bay NP Monkey Bay									
Monkey Caye FR									
Mountain Pine Ridge FR		29,179	24,283						
Nicholas Caye SA									
Nojkaaxmeen Eligio Panti NP Northern Glovers Reef SA									
Payne's Creek NP									
Port Honduras MR									
Rio Blanco NP Rio Bravo C&MA					6,825			16,414	
Rise and Fall Bank SA					0,025			10,414	
Rocky Point SA									
Runaway Creek									
Sandbore SA Sapodilla Cayes MR									
Sarstoon-Temash NP									
Seal Caye SA									
Shipstern Nature Reserve		4.074	7.004					1,680	489
Sibun FR Silk Cayes MR		1,371	7,901						
Sittee River FR									
South Point Lighthouse SA									
South Point Turneffe SA									
South Water Caye MR Spanish Creek WS							214	156	
St. Herman's Blue Hole NP								.00	
Swallow Caye WS									
Swasey-Bladen FR									
Tapir Mountain NR Thousand Foot Falls NM		9							
Vaca FR	1,030	ŭ							
Victoria Peak NM				26			04		
In PA's National total	72,375 72,376	33,711 36,942	36,361 43,151	26 26	6,825 34,485	1 3,579	24,969 93,014	27,977 305,539	2,310 15,049
% in PA's	100.0	91.3	84.3	100.0	19.8	0.0	26.8	9.2	15,049
Target set	90	95	95	95	50	70	30	40	80
Discrepancy	10	(4)	(11)	5	(30)	(70)	(3)	(31)	(65)

	A5a(1)(a)	A5a(1)(b)	A5a(1)(c)	IA5a(1)(d)	A5a(1)(e)	A5a(1)(f)	B1a(2)	llA1b(1)(a)K-s	IIA1b(a)LE
Actun Tunichil Muknal NM	≤	≰	≰	≰	≤	≰	<u>@</u>	≧	≧
Aguacaliente WS									
Aguacate Lagoon Aguas Turbias NP									119
Bacalar Chico MR									
Bacalar Chico NP Barton Creek	5,327		581	1,150		133			
Billy Barquedeer NP									
Bladen NR								829	
Block 127 Blue Hole NM		1,141	2,033		318				
Burdon Canal NR			2,338		97	1,122			
Cahal Pech									
Caracol Caye Caulker FR				94					
Caye Caulker MR				0.					
Chiquibul FR									
Chiquibul NP Cockscomb Basin WS									
Columbia River FR									
Community Baboon Sanctuary Corozal Bay WS	3		1,533	227					
Crooked Tree WS	3		1,555	221					
Deep River FR	2,996	5,488	1,087		16				
Dog Flea SA El Pilar									
Emily or Caye Glory SA									
Five Blues Lake NP									
Fresh Water Creek FR Gales Point WS			3,783 31		7	2,080 31			1,992
Gladden Spit SA			0.		•	0.			
Gladden Spit and Silk Cayes MR Glovers Reef MR									
Golden Stream			108						
Gragra Lagoon NP			200			655			
Grants Works FR Guanacaste NP									
Halfmoon Caye NM									
Hol Chan MR				210					
Honey Camp NP Lamanai									
Laughing Bird Caye NP				33					
Machaca FR									
Manatee FR Mango Creek (1) FR									
Mango Creek (4) FR			37						
Maya Mountain FR									
Mayflower Bocawina NP Monkey Bay NP									
Monkey Bay									
Monkey Caye FR Mountain Pine Ridge FR				28					
Nicholas Caye SA									
Nojkaaxmeen Eligio Panti NP									
Northern Glovers Reef SA Payne's Creek NP		5,015	4,017	864	314				
Port Honduras MR		0,010	1,011	1,683	0				
Rio Blanco NP		0.670							25 444
Rio Bravo C&MA Rise and Fall Bank SA		2,678							35,444
Rocky Point SA									
Runaway Creek Sandbore SA									
Sapodilla Cayes MR				250					
Sarstoon-Temash NP			384	712	731	1,090			
Seal Caye SA Shipstern Nature Reserve	6,258	414		4		333	488		89
Sibun FR									
Silk Cayes MR Sittee River FR									
South Point Lighthouse SA									
South Point Turneffe SA									
South Water Caye MR Spanish Creek WS									
St. Herman's Blue Hole NP									
Swallow Caye WS				1,013					
Swasey-Bladen FR Tapir Mountain NR									
Thousand Foot Falls NM									
Vaca FR Victoria Peak NM									
Victoria Peak NM In PA's	14,584	14,736	16,133	6,267	1,483	5,444	488	829	37,644
National total	40,674	28,112	67,132	60,917	11,900	27,302	1,016	829	78,295
% in PA's Target set	35.9 40	52.4 50	24.0 40	10.3 60	12.5 80	19.9 50	48.1 70	100.0 95	48.1 40
Discrepancy	(4)	2	(16)	(50)	(68)	(30)	(22)	5	8

	IIIA1b(a)MI	IIA1f	IIB1b(a)	IIIB1b(a)2	IIIB1b(b)	IIB1b(f)H	llB1b(f)P	SA1a	SA1b(4)(b)
Actun Tunichil Muknal NM									
Aguacaliente WS Aguacate Lagoon				1,588			259		
Aguas Turbias NP				222					
Bacalar Chico MR									
Bacalar Chico NP									
Barton Creek Billy Barquedeer NP									
Bladen NR			266		650	11			
Block 127									
Blue Hole NM Burdon Canal NR	136								
Cahal Pech	100								
Caracol									
Caye Caulker FR Caye Caulker MR									
Chiquibul FR						2,841			
Chiquibul NP			307		684	454			
Cockscomb Basin WS Columbia River FR				3,449		1,655 40			
Community Baboon Sanctuary				27		40		1,210	
Corozal Bay WS									
Crooked Tree WS	1,227			040			0	225	3,290
Deep River FR Dog Flea SA	1,256			910			8	60	
El Pilar									
Emily or Caye Glory SA									
Five Blues Lake NP Fresh Water Creek FR									404
Gales Point WS									404
Gladden Spit SA									
Gladden Spit and Silk Cayes MR Glovers Reef MR									
Golden Stream				1,717					
Gragra Lagoon NP									
Grants Works FR Guanacaste NP				257				10	
Halfmoon Caye NM								10	
Hol Chan MR									
Honey Camp NP									72
Lamanai Laughing Bird Caye NP									
Machaca FR				7					
Manatee FR	485								
Mango Creek (1) FR Mango Creek (4) FR									
Maya Mountain FR							763		
Mayflower Bocawina NP							400		
Monkey Bay NP Monkey Bay	549						102 208		
Monkey Caye FR									
Mountain Pine Ridge FR			4,593		17,701	1,650			
Nicholas Caye SA Nojkaaxmeen Eligio Panti NP			164					91	
Northern Glovers Reef SA								•	
Payne's Creek NP Port Honduras MR								28	
Rio Blanco NP				94					
Rio Bravo C&MA	3,463			519			6		63
Rise and Fall Bank SA									
Rocky Point SA Runaway Creek							229		
Sandbore SA									
Sapodilla Cayes MR		0.745		400				004	
Sarstoon-Temash NP Seal Caye SA		3,715		139				621	
Shipstern Nature Reserve									
Sibun FR				1,318	4,215				
Silk Cayes MR Sittee River FR									
South Point Lighthouse SA									
South Point Turneffe SA									
South Water Caye MR Spanish Creek WS							888	1	
St. Herman's Blue Hole NP							500		
Swallow Caye WS									
Swasey-Bladen FR Tapir Mountain NR	87						80		
Thousand Foot Falls NM				376	442				
Vaca FR						48		242	
Victoria Peak NM In PA's	7,203	3,715	5,330	10,622	23,692	6,700	2,543	2,488	3,830
In PA's National total	7 ,203 51,470	3,715 3,715	5,330 5,994	10,622 45,651	23,692 35,479	6,700 7,012	2,543 11,122	2,488 21,833	3,830 15,909
% in PA's	14.0	100.0	88.9	23.3	66.8	95.6	22.9	11.4	24.1
Target set	30	80 20	50	20	80	50	40	60	60
Discrepancy	(16)	∠0	39	3	(13)	46	(17)	(49)	(36)

	SA1b(5)	SA1d(2)(a)	SA1d(2)(b)	SA1d(2)(b)/s	SA1d(2)(c)	SA3b	SA3c	SA3d	SA3f
Actun Tunichil Muknal NM	0)	0)		0)	0,	0,	0,	0,	0,
Aguacate Lagan			84						
Aguacate Lagoon Aguas Turbias NP									
Bacalar Chico MR	619	1,261	518		1,487			1,611	
Bacalar Chico NP	2,102								
Barton Creek Billy Barquedeer NP									
Bladen NR									
Block 127	644								
Blue Hole NM Burdon Canal NR	395								
Cahal Pech	393								
Caracol									
Caye Caulker FR		4.007			4 004			0.050	540
Caye Caulker MR Chiquibul FR		1,697			1,664			2,650	513
Chiquibul NP									
Cockscomb Basin WS									
Columbia River FR Community Baboon Sanctuary									
Corozal Bay WS									
Crooked Tree WS									
Deep River FR		400			400			000	4.40
Dog Flea SA El Pilar		122			183			980	140
Emily or Caye Glory SA		342						512	497
Five Blues Lake NP			10						
Fresh Water Creek FR Gales Point WS	0.000								
Gladden Spit SA	8,909	898	86					719	2,221
Gladden Spit and Silk Cayes MR		1,989	3,857			5,373		3,152	4,752
Glovers Reef MR		6,835	1,387	37,644	1,746				24,754
Golden Stream Gragra Lagoon NP	295								
Grants Works FR	293								
Guanacaste NP									
Halfmoon Caye NM		52	134		372			691	1,986
Hol Chan MR Honey Camp NP		731			359			456	44
Lamanai									
Laughing Bird Caye NP			1,464			8,315	308		
Machaca FR Manatee FR	1								
Mango Creek (1) FR	•								
Mango Creek (4) FR									
Maya Mountain FR Mayflower Bocawina NP									
Monkey Bay NP									
Monkey Bay									
Monkey Caye FR									
Mountain Pine Ridge FR Nicholas Caye SA		463	21					900	280
Nojkaaxmeen Eligio Panti NP								000	200
Northern Glovers Reef SA									1,149
Payne's Creek NP Port Honduras MR	453 34		1,922			25,136	1,531		
Rio Blanco NP	34		1,522			25,150	1,551		
Rio Bravo C&MA									
Rise and Fall Bank SA		557			040	3,304	264	127	007
Rocky Point SA Runaway Creek		192	6		318			584	237
Sandbore SA		77			239			396	575
Sapodilla Cayes MR		4,610	2,328			20,306	5,437	2,723	
Sarstoon-Temash NP Seal Caye SA		230				1,366			
Shipstern Nature Reserve	4,809	230				1,300			
Sibun FR	,								
Silk Cayes MR						8			
Sittee River FR South Point Lighthouse SA		36			127			534	562
South Point Turneffe SA		16			20			796	546
South Water Caye MR		2,402	7,625			68,458	3,146	8,334	
Spanish Creek WS St. Herman's Blue Hole NP									
Swallow Caye WS									
Swasey-Bladen FR									
Tapir Mountain NR									
Thousand Foot Falls NM Vaca FR									
Victoria Peak NM									
In PA's	18,262	22,510	19,442	37,644	6,515	132,265	10,685	25,165	38,256
National total % in PA's	65,665	60,586	38,340	37,645 100.0	16,151 40.3	564,533 23.4	177,929	183,875	1,237,423
% in PA's Target set	27.8 40	37.2 20	50.7 20	100.0 20	40.3 20	23.4 20	6.0 20	13.7 20	3.1 20
Discrepancy	(12)	17	31	80	20	3	(14)	(6)	(17)

	3 3	£	VA2a(1)(2)	VA2b(2)	VA2c(g)	VD1a(1)	VE1a(1)	VF1c(1)L	VF1c(1)SM
A - to To i - bil Modern of NIM	SA3g	SA3h	×	×	¥	Š	Ĕ	¥	Ŗ
Actun Tunichil Muknal NM Aguacaliente WS					372				
Aguacate Lagoon									
Aguas Turbias NP Bacalar Chico MR									
Bacalar Chico NP							1,829		
Barton Creek Billy Barquedeer NP									
Bladen NR			81	29					
Block 127 Blue Hole NM									
Burdon Canal NR				216		38			
Cahal Pech Caracol									
Caye Caulker FR									
Caye Caulker MR Chiquibul FR									
Chiquibul NP									
Cockscomb Basin WS Columbia River FR			726						
Community Baboon Sanctuary			1,810	783					
Corozal Bay WS Crooked Tree WS			3,249	2,630					
Deep River FR			2,204	23,677					
Dog Flea SA El Pilar									
Emily or Caye Glory SA									
Five Blues Lake NP Fresh Water Creek FR							606		
Gales Point WS							606		
Gladden Spit SA									
Gladden Spit and Silk Cayes MR Glovers Reef MR	734								
Golden Stream									
Gragra Lagoon NP Grants Works FR				1,932					
Guanacaste NP	F 740								
Halfmoon Caye NM Hol Chan MR	5,749								
Honey Camp NP									
Lamanai Laughing Bird Caye NP									
Machaca FR									
Manatee FR Mango Creek (1) FR			2,293 2,357	6,393 4				1,231	
Mango Creek (4) FR			2,856	8,924					
Maya Mountain FR Mayflower Bocawina NP									
Monkey Bay NP									
Monkey Bay Monkey Caye FR				199 106					
Mountain Pine Ridge FR								309	258
Nicholas Caye SA Nojkaaxmeen Eligio Panti NP									
Northern Glovers Reef SA	378								
Payne's Creek NP Port Honduras MR			1,136	12,283					
Rio Blanco NP									
Rio Bravo C&MA Rise and Fall Bank SA			15,548	7,520					
Rocky Point SA				4 400					
Runaway Creek Sandbore SA				1,408					
Sapodilla Cayes MR									
Sarstoon-Temash NP Seal Caye SA									
Shipstern Nature Reserve							3,327		
Sibun FR Silk Cayes MR									
Sittee River FR									
South Point Lighthouse SA South Point Turneffe SA									
South Water Caye MR									
Spanish Creek WS St. Herman's Blue Hole NP									
Swallow Caye WS			0.450						
Swasey-Bladen FR Tapir Mountain NR			9,456						
Thousand Foot Falls NM									
Vaca FR Victoria Peak NM									
In PA's	6,861	0	41,718	66,103	372	38	5,761	1,540	258
National total % in PA's	2,518,460 0.3	2,438,756 0.0	218,739 19.1	251,561 26.3	372 100.0	1,416 2.7	48,622 11.8	5,040 30.6	258 100.0
Target set	20	20	40	20	80	50	30	20	50
Discrepancy	(20)	(20)	(21)	6	20	(47)	(18)	11	50

	VIB3a	VIIB1a	VIIB4	AIIIA	VIIIB1	VIIIB2	VIIIB3
Actun Tunichil Muknal NM	5	5	5	>	>	>	5
Aguacaliente WS							
Aguacate Lagoon Aguas Turbias NP							
Bacalar Chico MR				3,113	3,328	4,007	
Bacalar Chico NP	22				1		
Barton Creek Billy Barquedeer NP							
Bladen NR							
Block 127				200	0.47		
Blue Hole NM Burdon Canal NR			595	629	317		
Cahal Pech							
Caracol							
Caye Caulker FR Caye Caulker MR				3,146			
Chiquibul FR							
Chiquibul NP Cockscomb Basin WS							
Columbia River FR							
Community Baboon Sanctuary							
Corozal Bay WS Crooked Tree WS			9,644	1,913	3,475	173,324	
Deep River FR			0,011				
Dog Flea SA							
El Pilar Emily or Caye Glory SA							
Five Blues Lake NP							
Fresh Water Creek FR Gales Point WS				4			
Gladden Spit SA				4			72
Gladden Spit and Silk Cayes MR				2,206			4,650
Glovers Reef MR Golden Stream	11		133		12,180		
Gragra Lagoon NP		36	104				
Grants Works FR							
Guanacaste NP Halfmoon Caye NM	76			389	321		
Hol Chan MR				1,574	10	28	
Honey Camp NP Lamanai							
Laughing Bird Caye NP							
Machaca FR							
Manatee FR Mango Creek (1) FR							
Mango Creek (1) FR							
Maya Mountain FR							
Mayflower Bocawina NP Monkey Bay NP							
Monkey Bay							
Monkey Caye FR							
Mountain Pine Ridge FR Nicholas Caye SA							
Nojkaaxmeen Eligio Panti NP							
Northern Glovers Reef SA Payne's Creek NP	227		4,800		9		
Port Honduras MR	221		4,000	69,694			
Rio Blanco NP							
Rio Bravo C&MA Rise and Fall Bank SA			11,794				
Rocky Point SA					72		
Runaway Creek							
Sandbore SA Sapodilla Cayes MR							2,941
Sarstoon-Temash NP				190			_,
Seal Caye SA Shipstern Nature Reserve							
Sibun FR							
Silk Cayes MR							370
Sittee River FR South Point Lighthouse SA				58			
South Point Turneffe SA				1			
South Water Caye MR				24,356	93		1,733
Spanish Creek WS St. Herman's Blue Hole NP							
Swallow Caye WS				7,959			
Swasey-Bladen FR							
Tapir Mountain NR Thousand Foot Falls NM							
Vaca FR							
Victoria Peak NM In PA's	336	36	27,069	115,232	19,806	177 250	9,766
National total	3,933	2,986	92,977	967,195	58,942	177,359 250,056	27,506
% in PA's	8.6	1.2	29.1	11.9	33.6	70.9	35.5
Target set Discrepancy	60 (51)	70 (69)	30 (1)	20 (8)	20 14	20 51	20 16
50.0pu0y	(01)	(00)	(1)	(0)	1-7	0.	10

	ID# shape	Ecosystem name			Slope	ē	Count	Env-serv	Timber	Fisheries	Endemics	Last-wild	Low Ag	Wetland	Ē	%Target
Unesco code	file	S Ecosystem name	Acres	Hectare	Sio	Rare	Ö	En	Ë	Fis	Ë	Гая	۲ò	We	Total	
IA1a(1)(a)-C	301	3 Tropical evergreen broad-leaved lowland hill forest, Callophyllum variant	22,720	9,195		40	10		20			10			80	80
IA1a(1)(a)K-r	303	14 Tropical evergreen broad-leaved lowland hill forest on rolling karstic terrain	54,346	21,993		20			20			10			50	50
IA1a(1)(a)K-s	304	17 Tropical evergreen broad-leaved lowland hill forest on steep karstic terrain	92,939	37,611	40	20					10	10			80	80
IA1a(1)(a)-VT	302	3 Tropical evergreen broad-leaved lowland hill forest, Vochysia-Terminalia variant	20,486	8,290	40	40	10		20			10			120	95
IA1a(1)(b)K	305	9 Tropical evergreen broad-leaved lowland forest o calcareous soils	4,671	1,890		50	10		20						80	80
IA1a(1)(b)P	306	41 Tropical evergreen broad-leaved lowland forest o poor or sandy soils	164,828	66,704					20			10			30	30
IA1b(1)	307	2 Tropical evergreen broad-leaved submontane forest	64,426	26,073	40	20	10					10	10		90	90
IA1b(1)K-r	308	4 Tropical evergreen broad-leaved submontane forest on rolling karstic hills	29,010	11,740		30	10		20			10	10		80	80
IA1b(1)K-s	309	7 Tropical evergreen broad-leaved submontane forest on steep karstic hills	32,000	12,950	40	30	10				10	10	10		110	95
IA1b(3)	310	3 Tropical evergreen broad-leaved submontane palm forest	29,789	12,055	40	30	10					10	10		100	95
IA1c(1)	311	Tropical evergreen broad-leaved lower-montane forest	2,138	865	40	50	10						10		110	95
IA1c(4)	312	2 Tropical evergreen broad-leaved lower montane palm forest	1,541	624	40	50	10						10		110	95
IA1f(2)	313	10 Tropical evergreen broad-leaved alluvial forest	6,094	2,466		40			20						60	60
IA1f(2)(a)K	314	32 Tropical evergreen broad-leaved alluvial forest on calcareous soils	31,423	12,716		30			20			10			60	60
IA1g(1)(a)	315	28 Tropical evergreen broad-leaved lowland swamp forest	49,770	20,141		20			20						40	40
IA1g(1)(a)-AC	316	1 Tropical evergreen broad-leaved lowland swamp forest, Aguacaliente variant	1,082	438		50	10						10	10	80	80
IA1g(1)(b)	317	Tropical evergreen broad-leaved permanently waterlogged lowland swamp forest	8,477	3,431		40	10						10		60	60
IA1g(2)(b)-MA	318	4 Tropical evergreen broad-leaved permanently waterlogged lowland swamp forest with palms. Manicaria variant	6,092	2,465		40	10						10		60	60

	ID# shape	Ecosystem name			Slope	<u>ə</u>	Count	Env-serv	Timber	Fisheries	Endemics	Last-wild	Low Ag	Wetland	Total	%Target
Unesco code	file	S Ecosystem name	Acres	Hectare	Si	Rare	ပိ	ᇤ	Ė	E S			Ĺ	š		%
IA2a(1)(a)K-r	321	23 Tropical evergreen seasonal broad-leaved lowlan hill forest, on rolling karstic terrain	92,543	37,451		20			20		10	10			60	60
IA2a(1)(a)K-s	322	50 Tropical evergreen seasonal broad-leaved lowlan hill forest on steep karstic terrain	163,958	66,352	40						10	10			60	60
IA2a(1)(a)-ST	319	Tropical evergreen seasonal broad-leaved lowlan hill forest, Simarouba-Terminalia variant	296,915	120,158	40		10		20			10			80	80
IA2a(1)(a)-VT	320	9 Tropical evergreen seasonal broad-leaved lowlan hill forest, Virola-Terminalia variant	68,967	27,910	40	20	10		20			10			100	95
IA2a(1)(b)K	323	53 Tropical evergreen seasonal broadleaf lowland forest over lime-rich alluvium	84,099	34,034		20			20						40	40
IA2a(1)(b)K-BR	324	6 Tropical evergreen seasonal broad-leaved lowlan forest on calcareous soils, Belize River variant	41,090	16,629		20	10		20						50	50
IA2a(1)(b)K-CE	325	15 Tropical evergreen seasonal broad-leaved lowlan forest on calcareous soils, Central Eastern variant	147,368	59,638					40						40	40
IA2a(1)(b)K-CW	326	16 Tropical evergreen seasonal broad-leaved lowlan forest on clacareous soils, Central West variant	133,938	54,203					40			10			50	50
IA2a(1)(b)K-TP	327	32 Tropical evergreen seasonal broad-leaved lowlan forest on calcareous soils, Tehuantepec-Peten variant	337,578	136,613					40			10			50	50
IA2a(1)(b)K-Y	328	31 Tropical evergreen seasonal broad-leaved lowlan forest on calcareous soils, Yucatan variant	116,967	47,335					40						40	40
IA2a(1)(b)S	329	54 Tropical evergreen seasonal broad-leaved lowlan forest on poor or sandy soils	63,272	25,606		20			20			10			50	50
IA2a(1/2)(a)	330	4 Tropical evergreen seasonal mixed lowland hill forest	935	378	40	50	10		20						120	95
IA2a(2)(a)	331	4 Tropical evergreen seasonal needle-leaved lowland hill forest	22,986	9,302		40	10		20						70	70
IA2a(2)(b)	332	40 Tropical evergreen seasonal needle-leaved lowland forest	44,283	17,921		20			20			10			50	50
IA2b(1)	333	2 Tropical evergreen seasonal broad-leaved submontane elfin forest	255	103	40	50	10						10		110	95
IA2b(1)K-r	336	5 Tropical evergreen seasonal broad-leaved submontane forest on rolling karstic hills	71,866	29,083		20	10	20	20			10	10		90	90

	ID # shape	Ecosystem name			bе	ø	ır	Env-serv	Timber	Fisheries	Endemics	Last-wild	v Ag	Wetland	ਗ	%Target
Unesco code	file	Ecosystem name	Acres	Hectare	Slope	Rare	Count	Ē	Ë	Fis	Enc	Las	Low	We	Total	1%
IA2b(1)K-s	337	8 Tropical evergreen seasonal broad-leaved submontane forest on steep karstic hills	72,376	29,289	40	20	10					10	10		90	90
IA2b(1)-ST	334	10 Tropical evergreen seasonal broad-leaved submontane forest, Simarouba-Terminalia variant	111,487	45,117	40				20			10	10		80	80
IA2b(1)-VT	335	4 Tropical evergreen seasonal broadl-leaved submontane forest: Virola-Terminalia variant	135,857	54,980	40		10		20			10	10		90	90
IA2b(1/2)	338	2 Tropical evergreen seasonal mixed submontane forest	36,942	14,950	40	30	10		20			10	10		120	95
IA2b(2)	339	5 Tropical evergreen seasonal needle-leaved submontane forest	43,151	17,463	40	20	10		20			10	10		110	95
IA2c(1)	340	 Tropical evergreen seasonal broad-leaved lower montane elfin forest 	26	11	40	50	10						10		110	95
IA2f(2)(a)	341	51 Tropical evergreen seasonal broad-leaved alluvial forest	34,485	13,955		30			20						50	50
IA2g(1)(a)-SC	342	6 Tropical evergreen seasonal broad-leaved lowlan swamp forest, Stann Creek variant	4,704	1,904		50	10						10		70	70
IA2g(1)(a)-Sh	343	55 Tropical evergreen seasonal broad-leaved lowlan swamp forest, short tree variant	95,092	38,483		20							10		30	30
IA2g(1)(a)-T	344	183 Tropical evergreen seasonal broad-leaved lowlan swamp forest, tall variant	305,534	123,646					20			10	10		40	40
IA3a(1)(a)	345	4 Tropical semi-deciduous broad-leaved lowland forest	15,049	6,090		40	10		20				10		80	80
IA5a(1)(a)	346	25 Caribbean mangrove forest; dwarf mangrove scrub	40,674	16,460		20							10	10	40	40
IA5a(1)(b)	347	14 Caribbean mangrove forest; freshwater mangrov scrub	28,154	11,394		30							10	10	50	50
IA5a(1)(c)	348	151 Caribbean mangrove forest; mixed mangrove scrub	66,436	26,886		20							10	10	40	40
IA5a(1)(d)	349	456 Caribbean mangrove forest; coastal fringe mangrove	60,917	24,652		20		20					10	10	60	60
IA5a(1)(e)	350	51 Caribbean mangrove forest; riverine mangrove	11,900	4,816		40		20					10	10	80	80
IA5a(1)(f)	351	91 Caribbean mangrove forest; basin mangrove	27,881	11,283		30							10	10	50	50

	ID# shape	Ecosystem name			Slope	Rare	Count	Env-serv	Timber	Fisheries	Endemics	Last-wild	Low Ag	Wetland	Total	%Target
Unesco code	file		Acres	Hectare	Š		ပိ	ᇤ	įΞ	iΞ̈́	ᇤ	La		š	2	
IB1a(2)	352	4 Tropical deciduous microphyllous lowland forest	1,016	411		50	10						10		70	70
IIIA1b(1)(a)K-s	353	15 Tropical evergreen broad-leaved shrubland on steep karstic hills	829	336	40	50							10		100	95
IIIA1b(a)LE	354	84 Evergreen broad-leaved lowland shrubland dominated by leguminous shrubs	78,295	31,685		20						10	10		40	40
IIIA1b(a)MI	355	28 Evergreen broad-leaved lowland shrubland, Miconia variant	51,470	20,829		20							10		30	30
IIIA1f	356	5 Evergreen broad-leaved lowland peat shrubland with Sphagnum	3,715	1,503		50	10						10	10	80	80
IIIB1b(a)	357	8 Deciduous broad-leaved lowland shrubland, well- drained, over poor soils	5,994	2,426		40	10								50	50
IIIB1b(a)2	358	56 Deciduous broad-leaved lowland disturbed shrubland	45,654	18,476		20									20	20
IIIB1b(b)	359	24 Deciduous mixed submontane shrubland over poor soils	35,479	14,358	40	30							10		80	80
IIIB1b(f)H	360	5 Deciduous broad-leaved lowland riparian shrubland in hills	7,012	2,838		40	10								50	50
IIIB1b(f)P	361	39 Deciduous broad-leaved lowland riparian shrubland of the plains	11,122	4,501		40									40	40
SA1a	362	17 River	21,822	8,831		40							10	10	60	60
SA1b(4)(b)	363	58 Freshwater Lake	15,748	6,373		40							10	10	60	60
SA1b(5)	364	133 Brackish/saline lake	65,673	26,577		20							10	10	40	40
SA1d(2)(a)		58 Coral reef of the Caribbean; Shallow Reefs	60,586	24,529		20		20		10					50	3 0
SA1d(2)(b)		72 Coral reef of the Caribbean; Patch Reefs	38,340	15,522		30				10					40	3 0
SA1d(2)(b)/s		5 Coral reef of the Caribbean; Patch Reefs scattered in seagrass beds	37,645	15,241		30	10			10					50	3 0
SA1d(2)(c)		14 Coral reef of the Caribbean; Spur and groove	16,151	6,539		40		20		10					70	3 0
SA3b		2 Caribbean inner lagoon	564,682	228,616			10			10					20	3 0
SA3c		1 Caribbean open sea	177,929	72,036			10			10					20	3 0
SA3d	371	2 Caribbean open sea	183,873	74,443			10			10					20	3 0
SA3f	372	1 Caribbean open sea - mesopelagic/bathyal	1,237,423	500,981			10			10					20	3 0
SA3g	373	2 Caribbean open sea - bathyal	2,340,947	947,752			10			10					20	3 0
SA3h	374	1 Caribbean open sea - abyssal	2,616,269	1,059,218			10			10					20	30

Unesco code	ID # shape file	Ecosystem name	Acres	Hectare	Slope	Rare	Count	Env-serv	Timber	Fisheries	Endemics	Last-wild	Low Ag	Wetland	Total	%Target
VA2a(1)(2)	375	50 Short-grass savanna with scattered needle-leave trees	218,741	88,522					20		10		10		40	40
VA2b(2)	376	73 Short-grass savanna with shrubs	251,561	101,803							10		10		20	20
VA2c(g)	377	5 Short-grass swamp savanna without trees or shrubs	372	150		50	10						10	10	80	80
VD1a(1)	378	6 Eleocharis marsh. Note: not as rare as indicated. Partly included as patches in other ecosystems	1,416	573		30							10	10	50	50
VE1a(1)	379	45 Marine salt marsh rich in succulents	48,622	19,677		20							10		30	30
VF1c(1)L	380	4 Fire-induced lowland fern thicket. Note: disturbance indicator. No conservation priority	5,040	2,040									10		10	20
VF1c(1)SM	390	1 Fire-induced submontane fern thicket. Note: disturbance indicator. No conservation priority	258	104	40								10		50	50
VIB3a	391	31 Tropical coastal vegetation on recent sediments	3,932	1,591		50		10							60	60
VIIB1a	392	7 Tropical freshwater reed-swamp	3,267	1,322		50	10							10	70	70
VIIB4	393	93 Tropical lowland tall herbaceous swamp	92,827	37,566		20								10	30	30
VIIIA		33 Seagrass Beds	967,086	391,533				20		10					30	3 0
VIIIB1		59 Sparse algae/sand	58,942	23,863		20				10					30	3 0
VIIIB2		6 Sparse algae/silt	250,056	101,237			10			10					20	3 0
VIIIB3		9 Fleshy Brown Algae/Gorgonians	27,506	11,136		30	10			10					50	3 0