

Avifauna at Cloudbridge

by Nathan Marcy

“Human life is not purposeless. Rather, the moments of intense pleasure we experience in our encounters with nature may well justify our existence.” - Alexander Skutch, Ornithologist

Purpose

The two objectives of this study were:

- to make a thorough survey of bird life at Cloudbridge, and
- to look for differences in the bird communities within different habitats in the Reserve.

Method

Observations were made during September and October 2004 at six sites, chosen to reflect the diversity of habitat types at Cloudbridge. They included primary cloudforest and older secondary forest, young secondary forest and thicket, successional area composed of dense, low shrubbery, and mature riparian forest.

Five observation sessions were conducted at each site. Each session lasted one hour, and took place between 06:00 and 09:00. The data collected were as follows:

A list of all bird species observed within the site area during the hour.

As accurately as possible, the number of individuals of each species present.

A description of the location within the vegetation where each species is observed (from ground to canopy, where present).

When possible, a description of the preferred habitat and behavior of the birds.

Also, all species that were observed on the property (whether during observation sessions or not) are included in a master list (Appendix A).

The results of this study have been compiled into a set of lists and charts which demonstrate the abundance and diversity of Costa Rica cloudforest avifauna in different habitats. The following represents a summary and interpretation of the findings.

Results and interpretation

Site 1: At the intersection of the Cloudbridge Ridge Trail and the main Chirripo trail. This site includes primary cloudforest (on the south side of the Chirripo trail) and older secondary forest (on the north side of the trail).

Of the six sites, this one had the greatest abundance of birds, the second highest diversity of species, and the most endemic species. The high abundance value is mostly due to mixed flocks of tanagers and warblers. Such flocks were strikingly larger here than at other sites, and seemed to appear more frequently as well. The Common Bush-tanager (pictured) was especially numerous and often dominated the mixed flocks. Some of the other species most



common at Site 1, like the Spangled-cheeked Tanager, Black-cheeked Warbler, and Flame-throated Warbler were rare or absent at all other sites. Species like these must favor the relatively high elevation of this site, its unique primary forest habitat, or a combination of both. With its towering trees, this site had the greatest vertical diversity of habitat, and many bird species showed strong preferences for particular strata. Most of the species "endemic" to Site 1 favored the upper canopy. The Long-tailed Silky Flycatcher is especially notable for this; it was always seen at the extreme highest points of trees.

Site 2: At the forest edge on the Ridge Trail. Vegetation was young secondary forest and thicket.

As at Site 1, the Common Bush-tanager was the most abundant species at Site 2. The composition of mixed flocks here was quite different, however, with Silver-throated Tanagers (picture at right) and Slate-throated Redstarts in the place of Spangled-cheeked Tanagers and Black-throated Warblers. Like Site 1, this site hosted a high diversity of the insectivorous woodcreepers and foliage-gleaners. Also well represented were the larger fruit-eating species, such as the Emerald Toucanet, Red-headed Barbet, Sulfur-winged Parakeet, and Black Guan.

Site 3: In the upper meadow along the Ridge Trail, approximately 100 meters above the main trail. Vegetation was early successional, almost entirely composed of dense, low shrubbery.

Birds were scarce at Site 3; it had the lowest values for both abundance and diversity. Fewer than half as many species were observed here than at any other site. This is probably because Site 3 has the least vegetation, the most homogenous vegetation, and is essentially an unnatural habitat to which few species in the area are well adapted. Most of the birds that were common at nearly every other site – like the Common Bush-tanager, Silver-throated Tanager, and Brown-capped Vireo – were not seen here. The Rufous-collared Sparrow (right) and Yellow-faced Grassquit (seed-eating species) dominated the site. These species were also common at Site 4, but were absent from all of the more heavily forested sites. The Lesser Goldfinch (also a seed-eater) was the only species "endemic" to this site.

Site 4: In the lower meadow, near the intersection of the River and Plantation Trails. Vegetation is successional, with a mixture of open, grassy spaces, shrubs, and young trees.

This site had mid-range values for diversity, abundance, and richness, and the second highest percentage of endemic species. To judge by its four most common species – Yellow-faced Grassquit (pictured) Rufous-collared Sparrow, Common Bush-tanager, and Silver-throated Tanager – Site 4 must be a hybrid of sites 2 and 3. In fact, it does have the young trees (including Cecropias) of Site 2 and the low shrubs and grasses of Site 3. The habitat seems to be especially favorable for the small, omnivorous tanagers. Seven species of tanager were observed here, more than at any other site. The Golden-hooded Tanager and Glue-gray Tanager were among its "endemic" species. Site 4 also hosted a relatively high diversity of flycatchers (four species), perhaps because the vegetation provided many exposed perches from which to catch insects in flight.



Silver-throated tanager



Rufous-collared sparrow



Blue-crowned Motmot

Site 5: Along the Rio Chirripo near The Casa. Vegetation is the mature riparian forest of the north bank.

Since this site included the river, it hosted three aquatic species not seen at any other site. These were the Torrent Tyrannulet, the American Dipper, and the Louisiana Waterthrush. They all foraged for insects in the water, either from the riverbank or rocks in mid-stream. The most common bird was the Slate-throated Redstart. Site 5 also had a high diversity of hummingbirds (four species), which were attracted there by the many flowering plants. The Green Hermit was the most abundant of the hummingbirds, and was "endemic" to Site 5. Another beautiful species, seen only at this site, was the Blue-crowned Motmot (picture at right).

Emerald ToucanetSite 6: Along the Uran Trail, between the Rio Uran suspension bridge and Rancho Don Victor, immediately after the entrance to Cloudbridge North. The vegetation is mature riparian forest (with a view into the canopy) and sucesional thicket.



Emerald Toucanet

With 36 species observed, this site had the greatest diversity of birds. It is interesting to compare the results from Site 6 with those from Site 1. Both have high levels of diversity, but while Site

1 also has a high percentage of "endemic" species, Site 6 has the lowest level of endemism among all the sites. This is most likely due to its highly varied habitat. It has the mature trees of Site 1, the young trees of Site 2, and the open spaces and shrubbery of Site 4. It can support a wide variety of birds, but many of these birds also find their preferred habitat at other sites. The most abundant and often-seen species at Site 6 was the Emerald Toucanet, pictured at right, attracted there by a fruiting aguacatillo (wild avocado) tree. Many other species fed on this fruit, including the Squirrel Cuckoo, Collared Trogon, Black Guan, and, most notably, the Resplendant Quetzal (photo at top of page). A single male quetzal was regularly seen at Site 6. Several large, dead trees in the area may provide good cavity nesting sites for this species.

Detailed Quantitative Results.

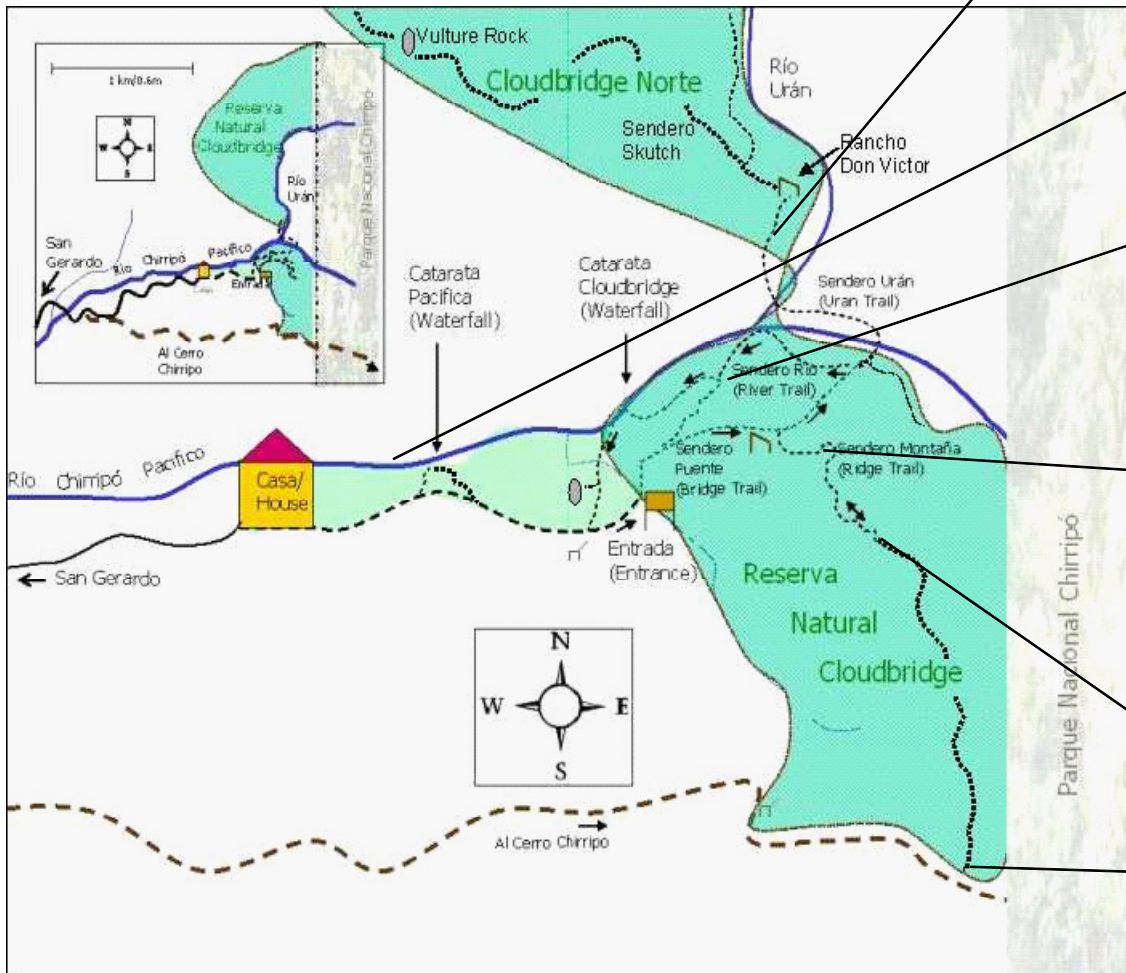
An Excel file, containing the avifauna species counts and charts measuring diversity, richness, abundance and local endemism, is available by clicking on the image at right. For more information write to Ian Giddy (see the contact page). Also see the descriptive Bird Sightings page.

Cloudbridge Avifauna Study
 Nathan Marcy
 September-October 2004
 Cloudbridge Nature Reserve, Costa Rica

This is a study of the bird life at 6 sites in the Cloudbridge Nature Reserve, Costa Rica (<http://cloudbridge.org>)

Contents

- Diversity
- Richness
- Abundance
- Endemism
- Shared species (6 pages)
- Data for charts
- Site Bird Lists (6 pages)



Site 6: Along the Uran Trail, between the Rio Urán suspension bridge and Rancho Don Victor. The vegetation is mature riparian forest (with a view into the canopy) and successional thicket.

Site 5: Along the Rio Chirripó near Casa Amanzimtoti. Vegetation is the mature riparian forest of the north bank.

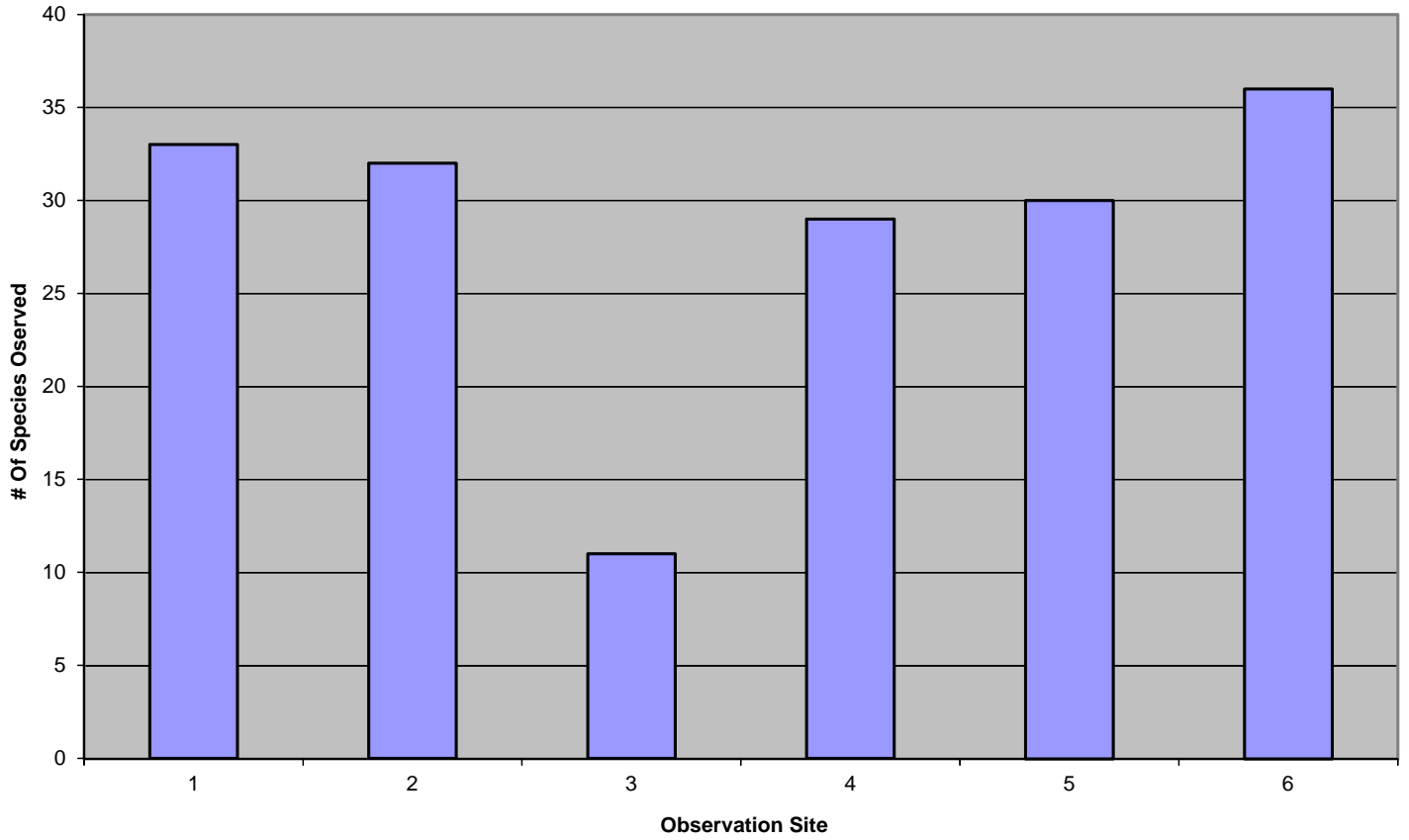
Site 4: In the lower meadow, near the intersection of the River and Plantation Trails. Vegetation is successional, with a mixture of open, grassy spaces, shrubs, and young trees.

Site 3: In the upper meadow along the Ridge Trail, approximately 100 meters above the main trail. Vegetation is early successional, almost entirely composed of dense, low shrubbery.

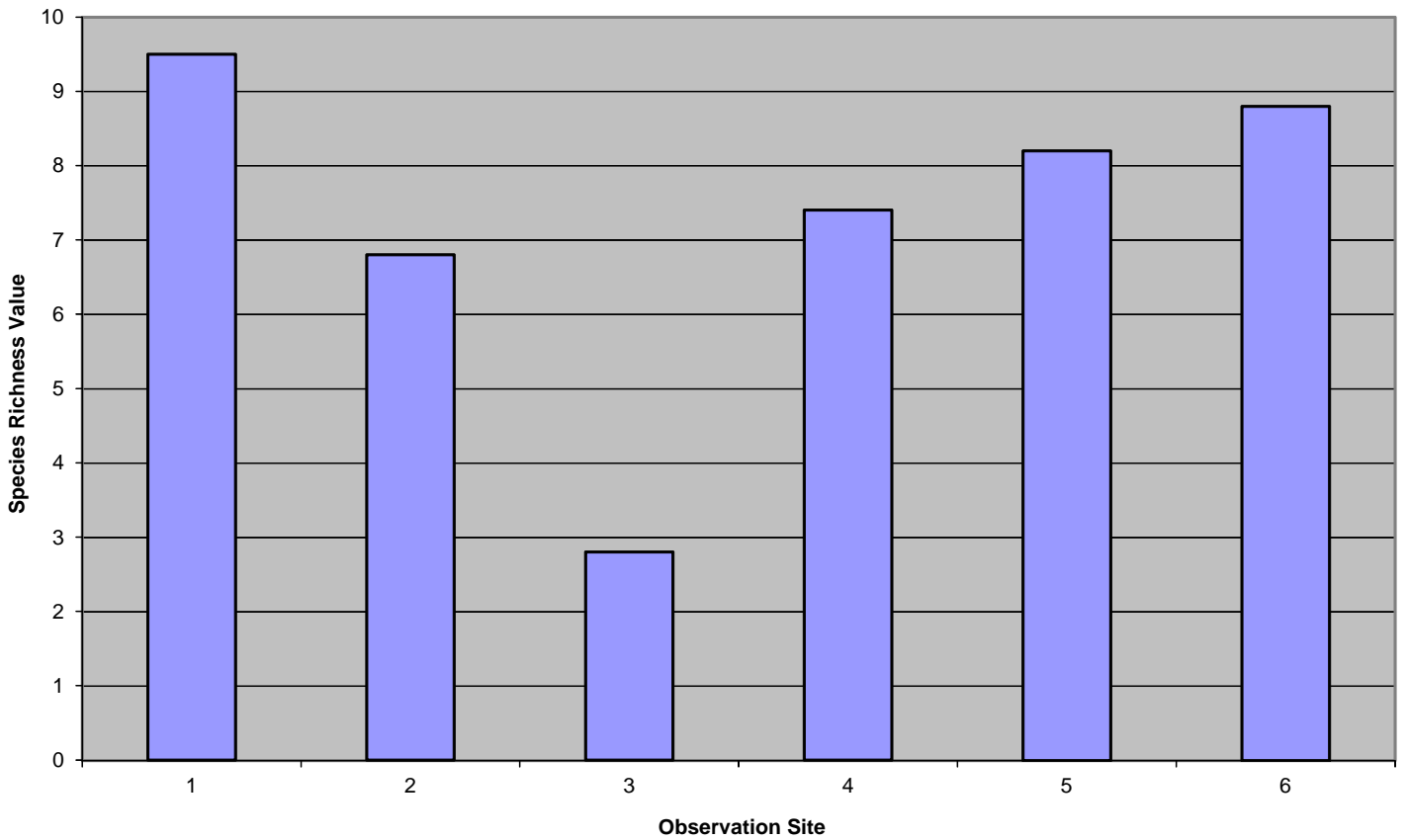
Site 2: At the forest edge on the Ridge Trail. Vegetation is young secondary forest and thicket.

Site 1: At the intersection of the Ridge Trail and the Chirripó trail. This site includes primary cloudforest (on the south side of the Chirripó trail) and older secondary forest (on the north side of the trail).

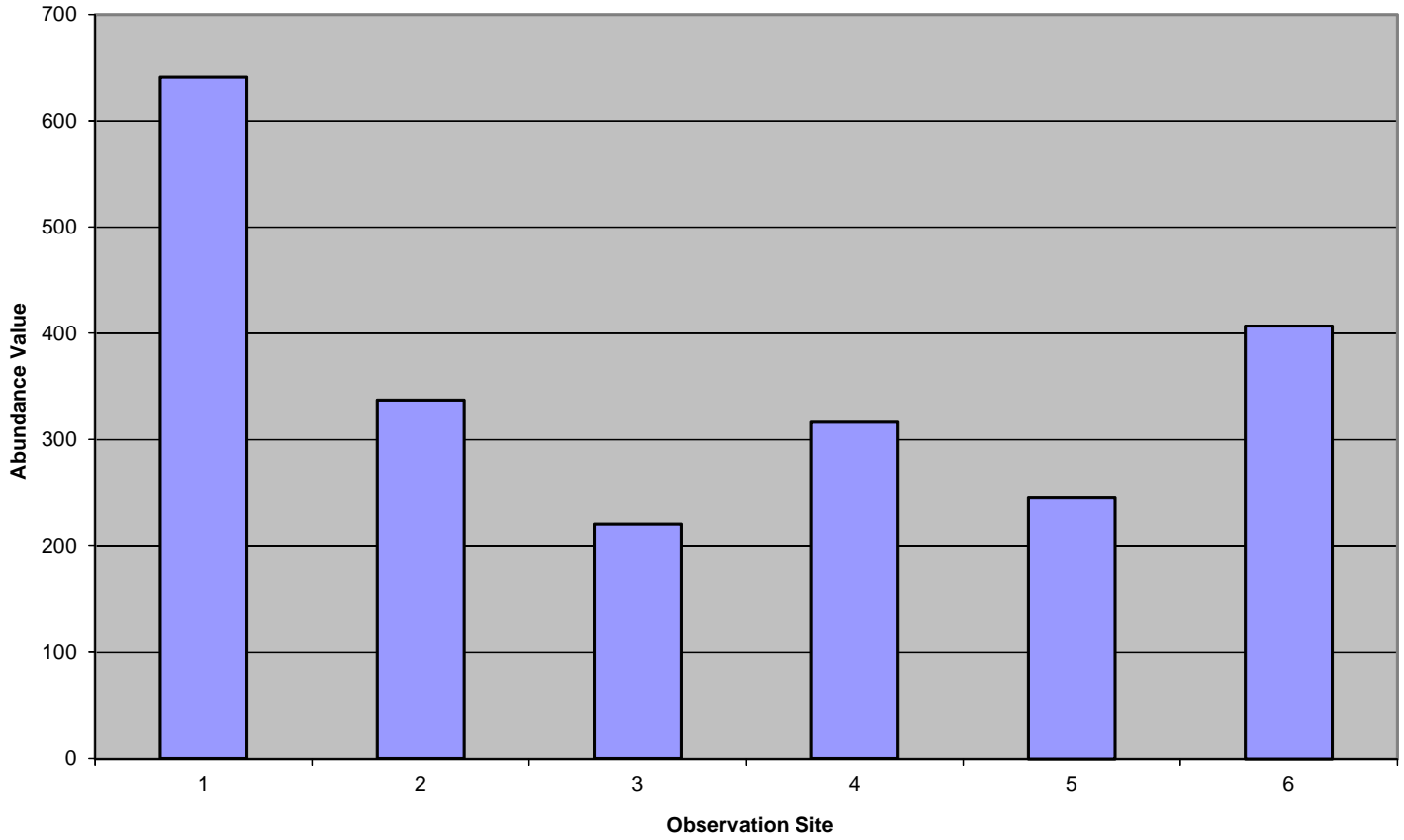
Bird Species Diversity at Six Sites Within the Cloudbridge Reserve



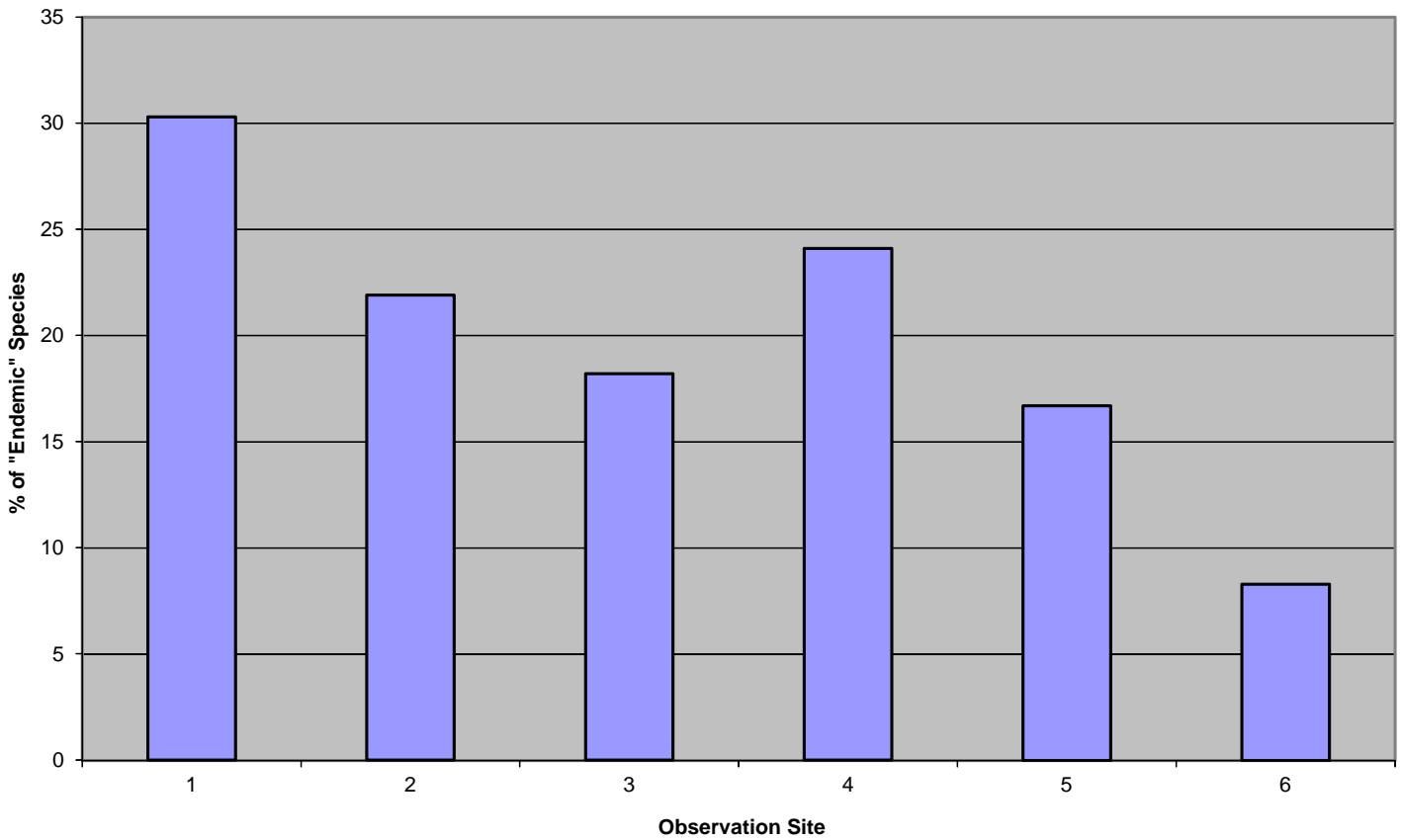
Relative Bird Species "Richness" at Six Sites Within the Cloudbridge Reserve



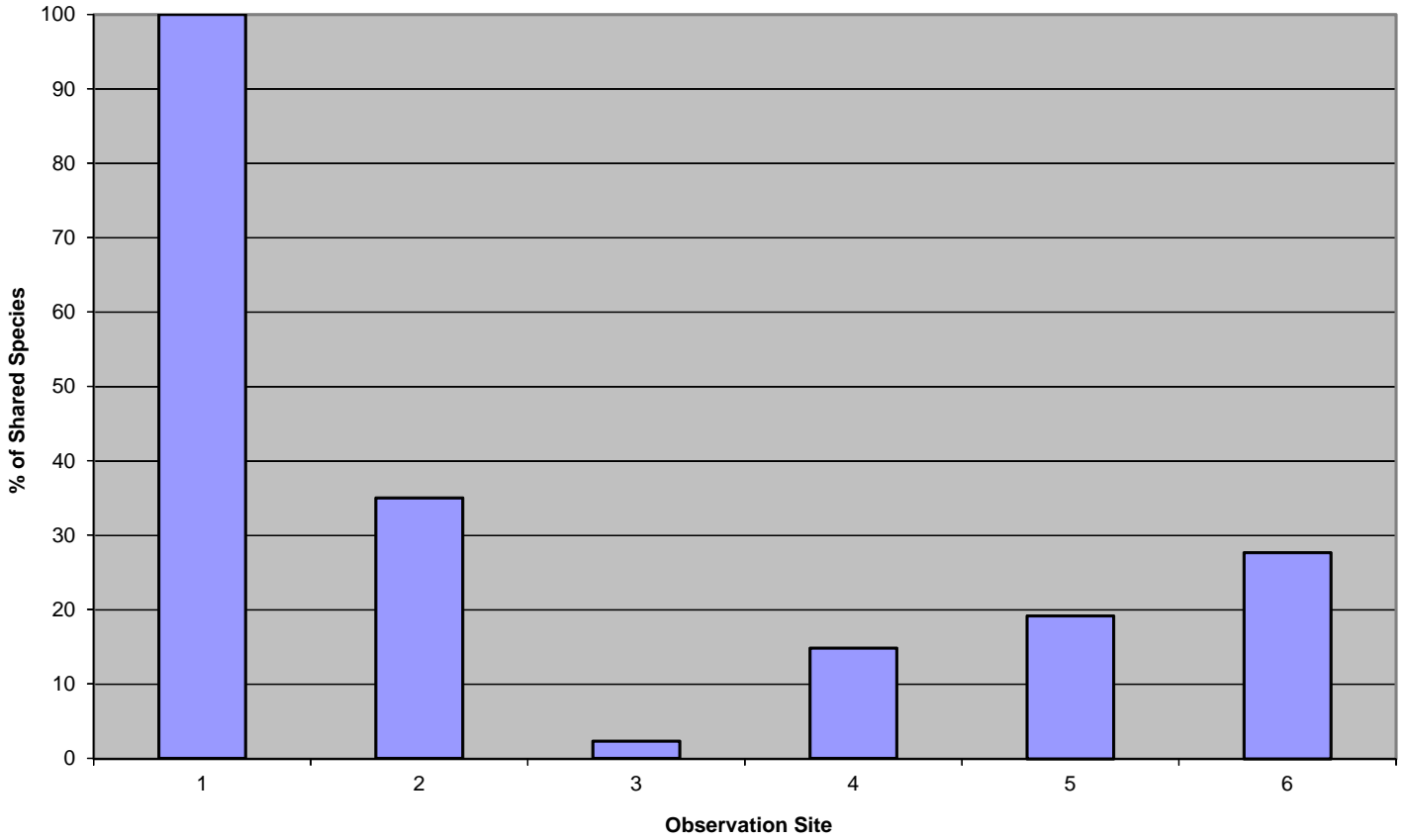
Relative Bird Abundance at Six Sites Within the Cloudbridge Reserve



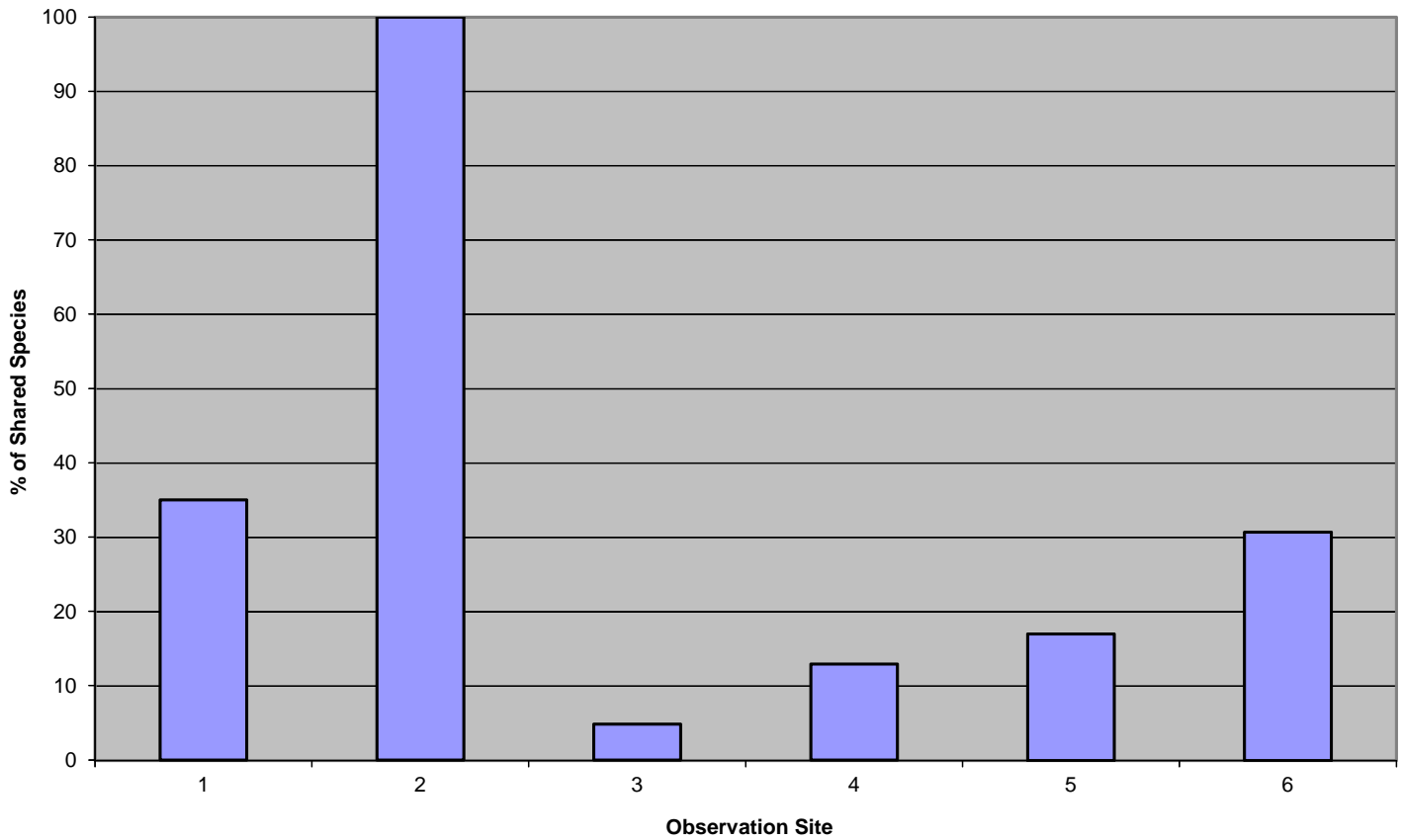
Percentage of Birds Species Observed at Each Site that Are "Endemic" to that Site



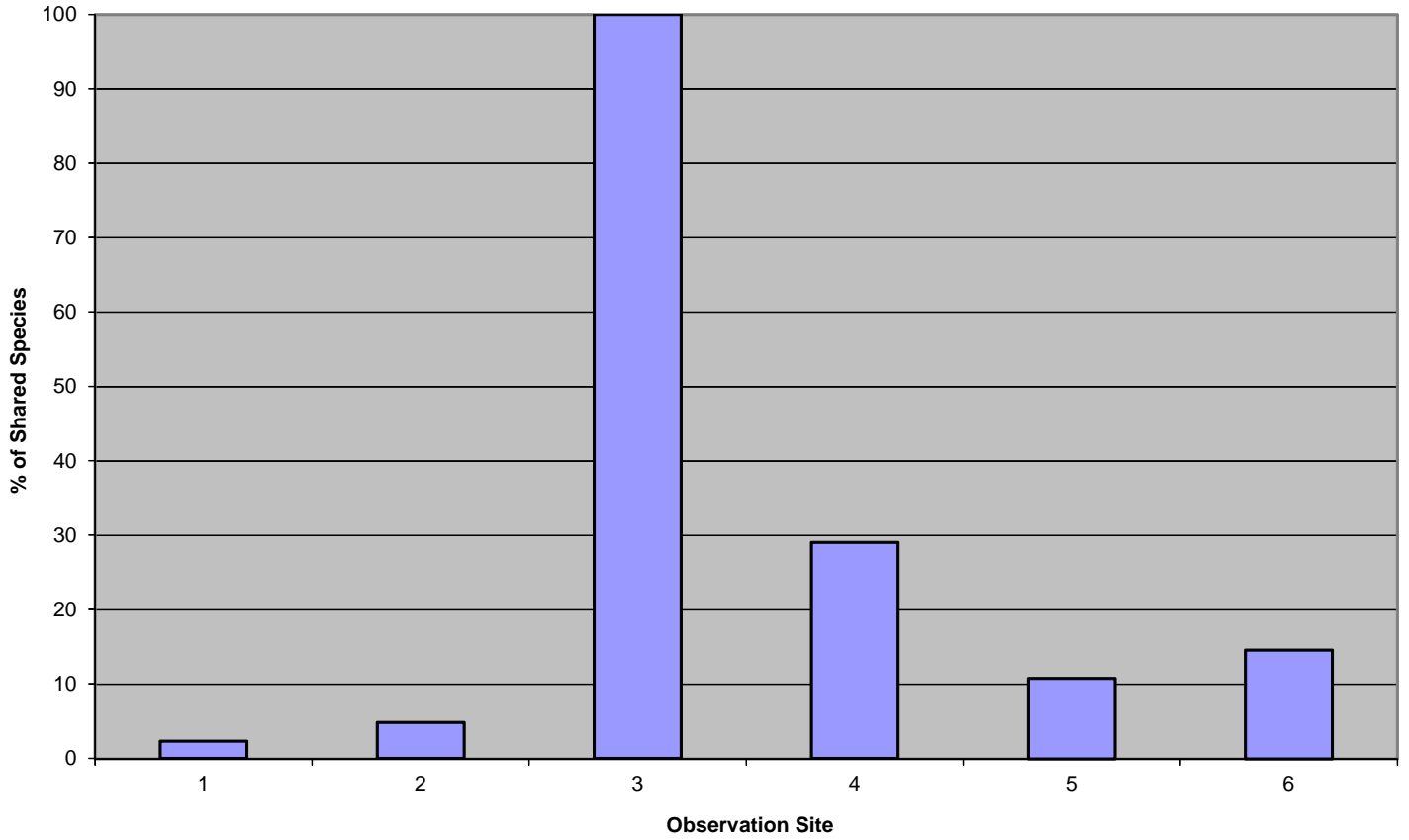
Percentage of Species Shared Between Site #1 and Other Sites



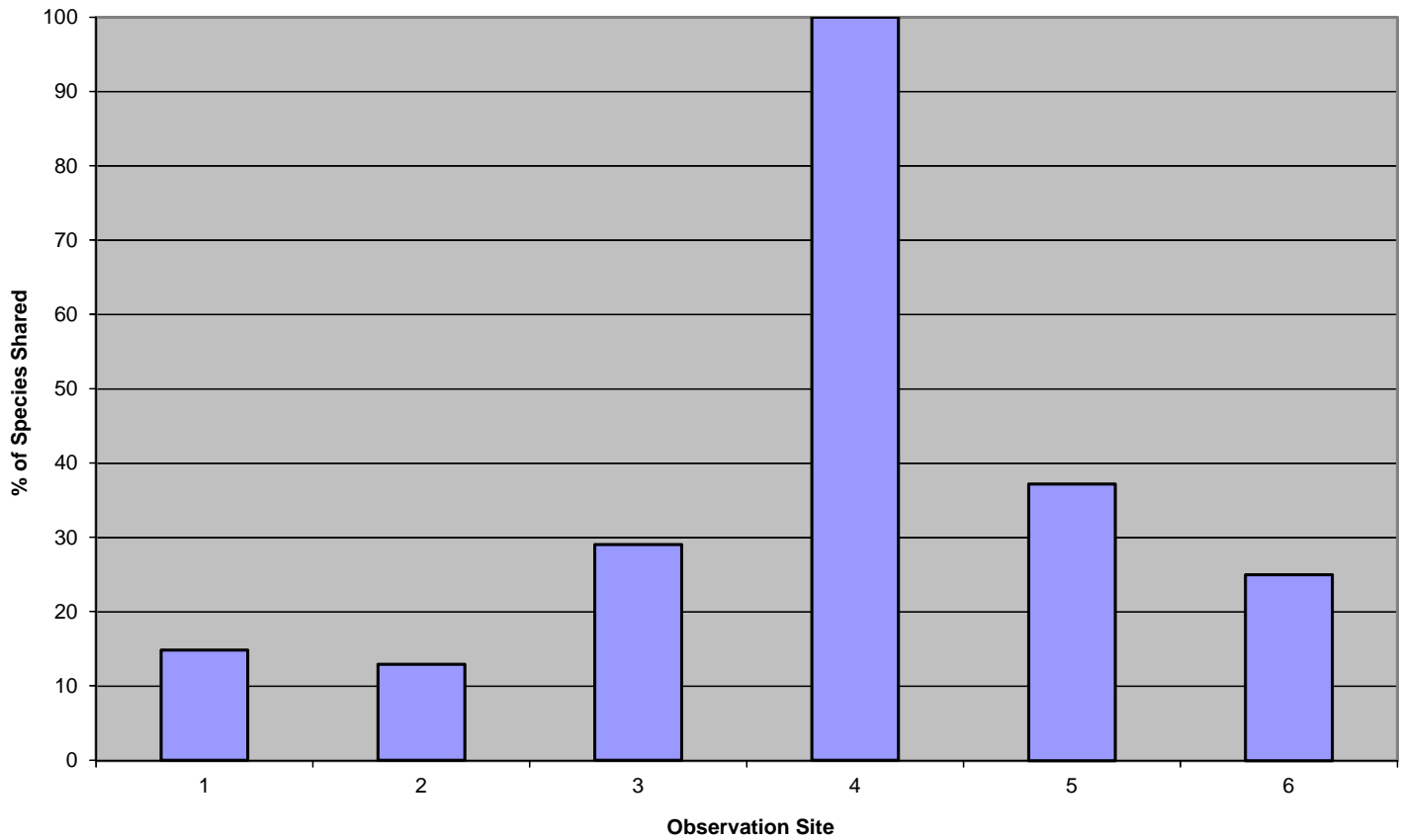
Percentage of Species Shared Between Site #2 and Other Sites



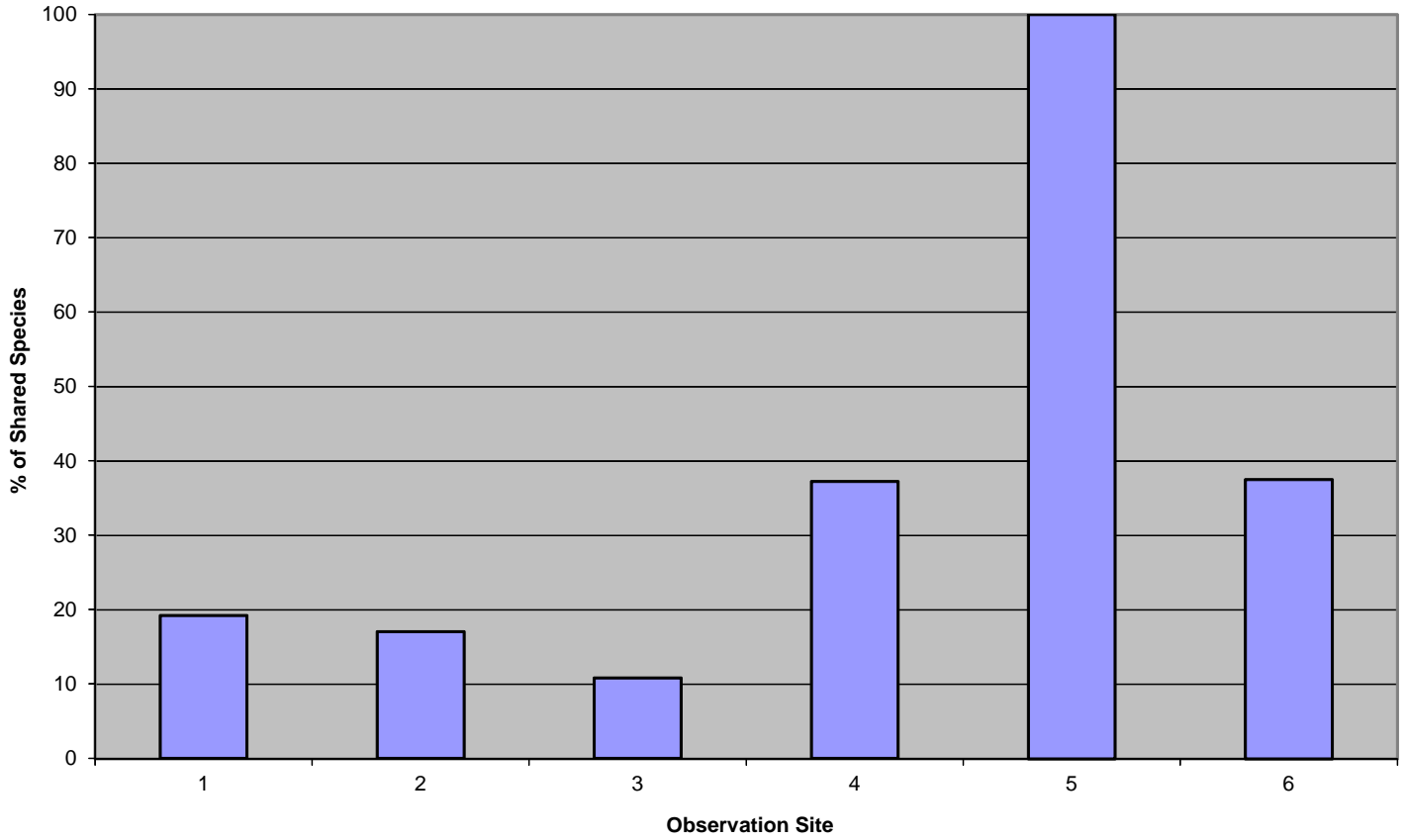
Percentage of Species Shared Between Site #3 and Other Sites



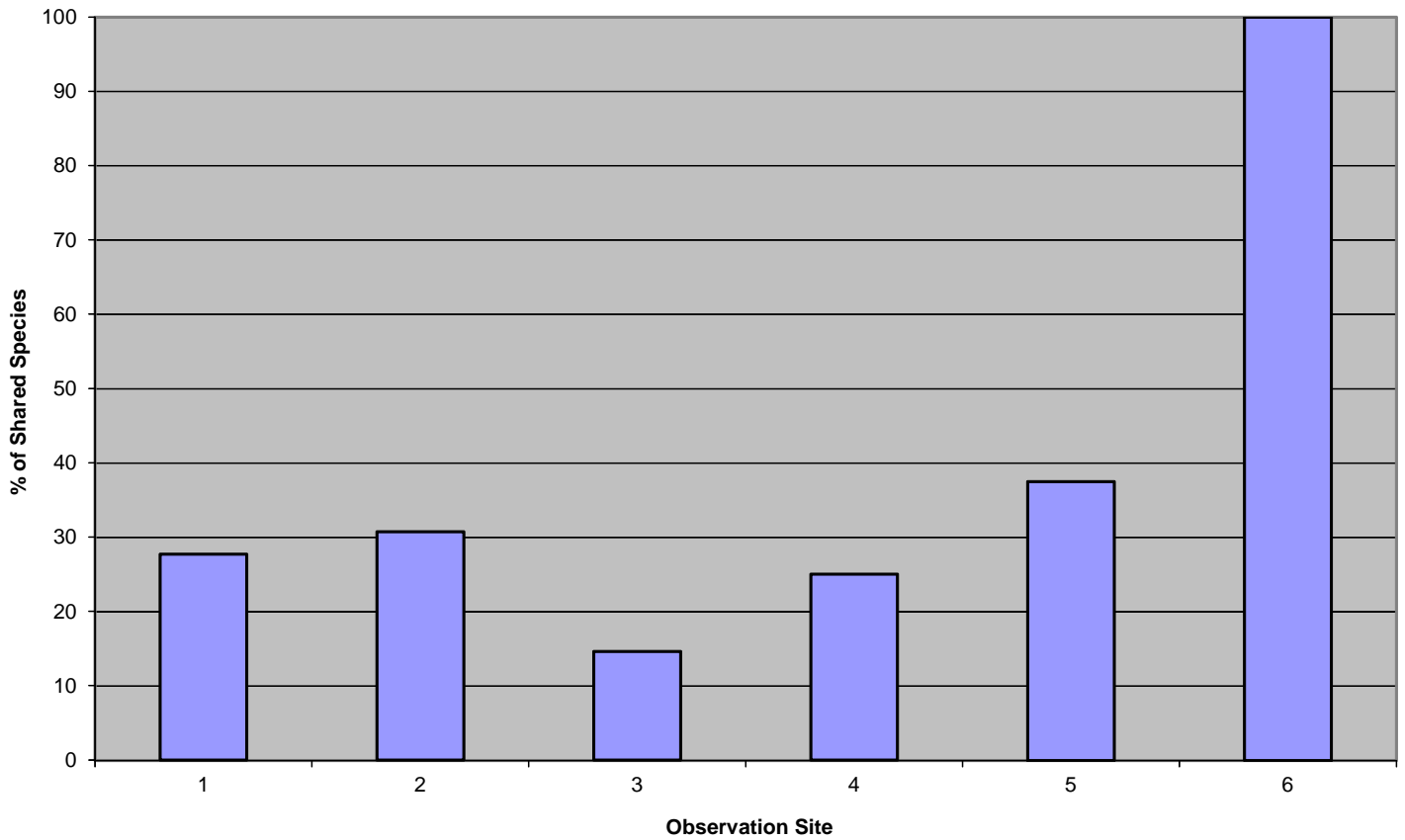
Percentage of Species Shared Between Site #4 and Other Sites



Percentage of Species Shared Between Site #5 and Other Sites



Percentage of Species Shared Between Site #6 and Other Sites



Rufus-crowned Nightingale-Thrush	2	1, 2
Black-cheeked Warbler	4	2, 3, 4
Ruddy Treerunner	1	4
Yellow-thighed Finch	2	2, 3
Tufted Flycatcher	1	3, 4
Black-and-White Warbler	1	4
Yellow-winged Vireo	2	4
Gray-breasted Wood-wren	1	1, 2

<<4>> 10/11/2004 7:30-8:30 AM

Hairy Woodpecker	1	4
Common Bush-tanager	5+	2, 3, 4
Flame-throated Warbler	1	4, 5
Three-striped Warbler	5+	2, 3
Black-cheeked Warbler	5+	1, 2, 3
Yellow-thighed Finch	4	1, 2, 3
Gray-breasted Wood-wren	2	2
Emerald Toucanet	2	3, 4
Wilson's Warbler	1	4
Collared Redstart	2	4, 5
Spotted-crowned Woodcreeper	1	4
Buff-fronted Foliage-gleaner	1	4, 5
Long-tailed Silky Flycatcher	2	5
Mistletoe Tyrannulet	2	4, 5
Brown-capped Vireo	3	4, 5
Tufted Flycatcher	2	4, 5
Gray-tailed Mountain Gem	1	4
Rufus-browed Peppershrike	1	4

<<5>> 10/15/2004 7:00-8:00 AM

Common Bush-tanager	5	3, 4
Flame-throated Warbler	1	4, 5
Emerald Toucanet	2	4
Black-cheeked Warbler	3	1, 2
Yellow-thighed Finch	4	2, 3, 4
Brown-capped Vireo	1	4
Spangled-cheeked Tanager	2	3, 4
Acorn Woodpecker	2	5
Black-faced Solitaire	2	2, 3
Collared Redstart	2	3, 4
Black-and-White Warbler	1	4
Long-tailed Silky Flycatcher	2	5
Spotted-crowned Woodcreeper	2	4
Silver-throated Jay	4	4
Wilson's Warbler	1	4
Mountain Robin	2	4
Mistletoe Tyrannulet	2	2, 3, 4

SITE 2

Species

Number Location

Site 2 Totals

Abundance

<<1>> 9/5/2004 7:00-8:00 AM

Rank Value Species

Gray-breasted Wood Wren	1	1, 2	1	105	Common Bush-Tanager
Common Bush-Tanager	5	3, 4	2	36	Yellow-thighed Finch
Emerald Toucanet	1	4	3	32	Slate-throated Redstart
Ruddy Pigeon	1	3	4	28	Emerald Toucanet
Slate-throated Redstart	2	3, 4	5	25	Gray-breasted Wood-Wren
Yellowish Flycatcher	1	3	6	15	Red-headed Barbet
Red-headed Barbet	2	4	7	14	Silver-throated Tanager
Silver-throated Tanager	2	2, 3, 4	8	10	Sulfur-winged Parakeet
Yellow-thighed Finch	1	3	9	9	Black-faced Solitaire
Black-faced Solitaire	1	3	10	9	Brown-capped Vireo
Lineated Foliage-gleaner	1	2	11	9	Wilson's Warbler

<<2>> 9/14/2004 6:30-7:30 AM

Common Bush-Tanager	2, 3	2, 3, 4, 5	12	8	Yellow-throated Brush-Finch
Brown-capped Vireo	1	5	13	4	Yellowish Flycatcher
Gray-tailed Mountain Gem	1	2	14	4	Gray-tailed Mountain Gem
Gray-breasted Wood-Wren	1	1, 2	15	4	Hairy Woodpecker
Emerald Toucanet	1	4, 5	16	4	Spotted Wood-Quail
Black-faced Solitaire	1	4	17	3	Spangled-cheeked Tanager
Yellow-thighed Finch	2	2, 3, 4	18	2	Red-faced Spinetail
Red-headed Barbet	2	4, 5	19	2	White-winged Tanager
Wilson's Warbler	1	4	20	2	Black-cheeked Warbler
Lineated Foliage-gleaner	1	4	21	1	Ruddy Pigeon
Slate-throated Redstart	1	4, 5	22	1	Lineated Foliage-gleaner

<<3>> 9/27/2004 8:30-9:30 AM

Silver-throated Tanager	5+	4, 5	23	1	Ochraceous Wren
Common Bush-Tanager	5+	2, 3, 4, 5	24	1	Brown-billed Scythebill
Slate-throated Redstart	2	1, 2, 3, 4	25	1	Black Guan
GBWR	1	1, 2	26	1	Barred Becard
Black-faced Solitaire	1	2, 3, 4	27	1	Buff-fronted Foliage-gleaner
Yellow-throated Brush-Finch	2	3, 4	28	1	Spotted-crowned Woodcreeper
Red-faced Spinetail	2	4	29	1	Ruddy-capped Nightingale-Thrush
Ochraceous Wren	1	4	30	1	Spectacled Foliage-gleaner
Black-cheeked Warbler	2	2, 3	31	1	Yellow-winged Vireo
Brown-capped Vireo	1	4	32	1	Spotted Barbtail
Hairy Woodpecker	1	4			
Red-headed Barbet	1	5			
Spangled-cheeked Tanager	3	3, 4			
Yellow-thighed Finch	2	2, 3, 4			
Brown-billed Scythebill	1	4			

<<4>> 10/4/2004 8:30-9:30 AM

Black Guan	1	4			
Spotted Wood-Quail	4	1			

SITE 3

Species

Number Location

Site 3 Totals

Abundance

<<1>> 9/29/2004 7:45-8:45 AM

Rank value Species

Yellow-faced Grassquit	2	2, 3	1	85	Rufus-collared Sparrow
Rufus-collared Sparrow	4	2, 3	2	65	Yellow-faced Grassquit
White-collared Swift	5	6	3	20	White-collared Swift
Wilson's Warbler	1	2, 3	4	16	Wilson's Warbler
Eastern Wood-Pewee	1	4	5	15	Lesser Goldfinch
House Wren	1	2, 3	6	9	House Wren
Lesser Goldfinch	2	2, 3	7	4	Eastern Wood-Pewee
Slate-throated Redstart	1	2, 3	8	2	Scarlet-thighed Dacnis

<<2>> 10/3/2004 7:45-8:45 AM

			9	2	Golden-hooded Tanager
			10	1	Flame-colored Tanager
			11	1	Slate-throated Redstart

Yellow-faced Grassquit	3	2, 3
Rufus-collared Sparrow	4	2, 3
Wilson's Warbler	1	2, 3
Scarlet-thighed Dacnis	2	3
Lesser Goldfinch	2	2, 3

<<3>> 10/8/2004 6:30-7:30 AM

Yellow-faced Grassquit	4	2, 3
Rufus-collared Sparrow	2	2, 3
White-collared Swift	5	6
Golden-hooded Tanager	2	3, 4
Flame-colored Tanager	1	4
Eastern Wood-Pewee	1	4

<<4>> 10/13/2004 7:00-8:00 AM

Rufus-collared Sparrow	3	2, 3
Yellow-faced Grassquit	2	2, 3
House Wren	1	2, 3
Wilson's Warbler	1	2, 3

<<5>> 10/14/2004 8:00-9:00 AM

Rufus-collared Sparrow	4	2, 3
Yellow-faced Grassquit	2	2, 3
Lesser Goldfinch	1	2, 3
House Wren	1	2, 3
Wilson's Warbler	1	2, 3

Yellow-thighed Finch	4	1, 2, 3
Wilson's Warbler	2	2, 3, 4
Rufus-collared Sparrow	2	1, 2
Yellow-faced Grassquit	3	1, 2, 3
Sulfur-winged Parakeet	10+	6
House Wren	1	1, 2
Silver-throated Tanager	1	4
Clay-colored Robin	1	4
Golden-olive Woodpecker	1	4
Mistletoe Tyrannulet	2	4, 5
Brown-capped Vireo	6	1, 2, 3, 4, 5
Common Bush-Tanager	2	2, 3, 4
Scarlet-thighed Dacnis	2	5
Golden-hooded Tanager	2	3, 4
Bay-headed Tanager	1	4
Blackburnian Warbler	1	4
Northern Oriole	1	4

<<5>> 10/5/2004 7:30-8:00 AM

Common Bush-Tanager	3	2, 3, 4
Golden-bellied Flycatcher	2	5
Yellow-faced Grassquit	2	2, 3
Rufus-collared Sparrow	2	1, 2
Wilson's Warbler	1	3, 4
Olive-sided Flycatcher	1	4, 5
Slaty Flowerpiercer	1	2, 3
Brown-capped Vireo	1	4
Silver-throated Tanager	2	4, 5

SITE 5

Species Number Location

Site 5 Totals

Abundance

<<1>> 9/11/2004 6:00-7:00 AM

Slate-throated Redstart	3	3, 4
Torrent Tyrannulet	2	1, 2
American Dipper	1	1
Gray-tailed Mountain Gem	2	2
Louisiana Waterthrush	1	1
Blue-crowned Motmot	1	3
Green Hermit	1	2

Rank	Value	Species
1	60	Slate-throated Redstart
2	25	Green Hermit
3	22	Speckled Tanager
4	21	Common Bush-Tanager
5	18	Torrent Tyrannulet
6	15	Blackburnian Warbler
7	12	Silver-throated Tanager
8	10	Sulfur-winged Parakeet

<<2>> 9/25/2004 7:30-8:30 AM

Green Hermit	1	2
Speckled Tanager	6	4, 5
Blue-hooded Euphonia	1	3
Blackburnian Warbler	3	4, 5
Brown-capped Vireo	1	4
Eastern Wood-Pewee	1	4, 5
Black-and-White Warbler	1	4
Slate-throated Redstart	2	2, 3, 4, 5
Golden-bellied Flycatcher	1	4
Masked Tityra	2	5
Torrent Tyrannulet	2	1

9	9	Black-and-White Warbler
10	8	Flame-colored Tanager
11	6	Brown-capped Vireo
12	6	Striped-tailed Hummingbird
13	4	American Dipper
14	4	Blue-crowned Motmot
15	4	Mistletoe Tyrannulet
16	4	Black-faced Solitaire
17	2	Gray-tailed Mountain Gem
18	2	Masked Tityra
19	2	Bay-headed Tanager
20	2	Gray-breasted Wood Wren
21	1	Louisiana Waterthrush
22	1	Blue-hooded Euphonia
23	1	Eastern Wood-Pewee

<<3>> 10/5/2004 6:00-7:00 AM

Green Hermit	1	2, 3
Common Bush-Tanager	2	2, 3, 4
Slate-throated Redstart	2	4, 5
Blackburnian Warbler	1	4, 5
Flame-colored Tanager	2	4, 5
Torrent Tyrannulet	2	1
Blue-crowned Motmot	1	2, 3
Striped-tailed Hummingbird	1	2, 3, 4
Black-and-White Warbler	1	4, 5
Wilson's Warbler	1	4, 5

24	1	Golden-bellied Flycatcher
25	1	Wilson's Warbler
26	1	Squirrel Cuckoo
27	1	Snowy-bellied Hummingbird
28	1	Northern Oriole
29	1	Collared Trogon
30	1	Olive-sided Flycatcher

<<4>> 10/13/2004 8:30-9:30 AM

Squirrel Cuckoo	1	3, 4
Green Hermit	1	2
Snowy-bellied Hummingbird	1	2
Common Bush-Tanager	3	2, 3, 4
Silver-throated Tanager	4	2, 3, 4
Slate-throated Redstart	3	2, 3, 4, 5
Brown-capped Vireo	2	2, 3, 4
Mistletoe Tyrannulet	1	2, 3, 4
Speckled Tanager	5	2, 3, 4

Bay-headed Tanager	2	4, 5
Black-faced Solitaire	1	2, 3
Gray-breasted Wood Wren	2	2
Northern Oriole	1	3, 4
Flame-colored Tanager	2	4, 5
Black-and-White Warbler	1	4
Blackburnian Warbler	1	4

<<5>> 10/14/2004 6:00-7:00 AM

Black-faced Solitaire	1	4
Sulfur-winged Parakeet	10	4
Common Bush-Tanager	2	2, 3, 4
Silver-throated Tanager	2	4, 5
Slate-throated Redstart	2	2, 3, 4, 5
Mistletoe Tyrannulet	1	4, 5
Green Hermit	1	2, 3
Striped-tailed Hummingbird	2	2, 3, 4
American Dipper	1	1
Olive-sided Flycatcher	1	4
Collared Trogon	1	4

Striped-tailed Hummingbird	2	2, 3, 4
Scintillant Hummingbird	1	4
Scarlet-thighed Dacnis	2	4
Golden-browed Chlorophonia	1	5
Gray-tailed Mountain Gem	1	4
Masked Tityra	2	5
Eastern Wood-Pewee	1	4
Mistletoe Tyrannulet	3	2, 3, 4

<<4>> 10/3/2004 6:45-7:45 AM

Emerald Toucanet	5	4, 5
Resplendent Quetzal	1	4, 5
Ruddy Pigeon	1	4
Flame-colored Tanager	2	4, 5
Silver-throated Tanager	4	2, 3, 4
Mistletoe Tyrannulet	2	2, 3, 4
Scintillant Hummingbird	2	2, 3, 4, 5
Blue-hooded Euphonia	1	4, 5
Wilson's Warbler	1	2, 3, 4
Blackburnian Warbler	1	4
Black-throated Green Warbler	1	4
Brown-capped Vireo	2	4
Barred Becard	1	3
Sulfur-winged Parakeet	10+	4
Red-headed Barbet	1	4
Scarlet-thighed Dacnis	1	4
Black-and-White Warbler	1	4

<<5>> 10/8/2004 7:00-8:00 AM

Emerald Toucanet	5	4, 5
Flame-colored Tanager	2	5
Silver-throated Tanager	4	4
Common Bush-Tanager	2	2, 3, 4, 5
Mistletoe Tyrannulet	2	4
Slate-throated Redstart	2	3, 4, 5
Scintillant Hummingbird	2	4
Striped-tailed Hummingbird	1	2, 3, 4
Black-and-White Warbler	1	4, 5
Mountain Robin	1	5
Scarlet-thighed Dacnis	2	4
Tufted Flycatcher	1	3, 4

Emerald Toucanet	2	5
Yellow-throated Brush-Finch	2	4
Common Bush-Tanager	4	2, 3, 4, 5
Slate-throated Redstart	2	3, 4
Barred Becard	1	4
Wilson's Warbler	1	4
Gray-breasted Wood Wren	1	1, 2
Yellow-thighed Finch	4	2, 3
Buff-fronted Foliage-gleaner	1	4
Brown-capped Vireo	1	4
Spotted-crowned Woodcreeper	1	4
White-winged Tanager	2	5

<<5>> 10/11/2004 6:00-7:00 AM

Gray-breasted Wood Wren	1	2
Common Bush-Tanager	2	4, 5
Slate-throated Redstart	1	4
Emerald Toucanet	3	4, 5
Yellowish Flycatcher	1	3
Brown-capped Vireo	1	3, 4
Wilson's Warbler	1	4
Hairy Woodpecker	1	4
Ruddy-capped Nightingale-Thrush	1	2
Sulfur-winged Parakeet	10+	3
Spectacled Foliage-gleaner	1	4
Spotted Barbtail	1	2
Yellow-winged Vireo	1	4

Appendix A

Bird Sighted at Cloudbridge Nature Reserve

FAMILY		English name	Spanish name	Scientific name	Migratory	STATUS
FAMILY TINAMIDAE						
1	Highland Tinamou	Tinamú Serrano	Nothocercus bonapartei	R	Rare	
FAMILY CATHARTIDAE						
2	Turkey Vulture	Zopilote Negro	Cathartes aura	R	Common	
3	Black Vulture	Zopilote Cabecirrojo	Coragyps atratus	R	Common	
FAMILY ACCIPITRIDAE						
4	Swallow-tailed Kite	Elanio Tijereta	Elanoides forficatus	M	Common	
5	Red-tailed Hawk	Gavilán Colirrojo	Buteo jamaicensis	R/M	Uncommon	
6	Barred Forest Falcon	Halcón de Monte Barreteado	Micrastur mirandollei	R	Rare	
FAMILY CRACIDAE						
7	Black Guan	Pava Negra	Chamaepetes unicolor	R	Uncommon	
FAMILY PHASIANIDAE						
8	Spotted Wood-Quail	Codorniz Moteada	Odontophorus gujanensis	R	Uncommon	
FAMILY COLUMBIDAE						
9	Band-tailed Pigeon	Paloma Collareja	Columba fasciata	R	Common	
10	Ruddy Pigeon	Paloma Rojiza	Columba subvinacea	R	Common	
11	White-tipped Dove	Paloma Coliblanca	Leptotila verreauxi	R	Rare	
12	Buff-fronted Quail-Dove	Paloma-Perdiz Costarriqueña	Geotrygon costaricensis	R	Rare	
13	Chiriqui Quail-Dove	Paloma-Perdiz Pechicanela	Geotrygon chiriquensis	R	Uncommon	
FAMILY PSITTACIDAE						
14	Sulfur-winged Parakeet	Perico Aliazufrado	Pyrrhura hoffmanni	R	Abundant	
15	Red-fronted Parrotlet	Periquito Alirrojo	Touit costaricensis	R	Uncommon	
FAMILY CUCULIDAE						
16	Squirrel Cuckoo	Cuco Ardilla	Piaya cayana	R	Uncommon	
FAMILY STRIGIDAE						
17	Mottled Owl	Lechuza Café	Ciccaba virgata	R	Rare	
18	Bare-shanked Screech-Owl	Lechucita Serranera	Otus clarkii	R	Rare	
19	Spectacled Owl	Buho de Anteojos	Pulsatrix perspicillata			
20	Andean Pygmy-Owl	Mochuelo Montanero	Glaucidium jadinii			
FAMILY CAPRIMULGIDAE						
21	Common Pauraque	Tapacaminos Común	Nyctidromus albicollis	R	Uncommon	
FAMILY APODIDAE						
22	White-collared Swift	Vencejón Collarejo	Streptoprocne zonaris	R	Common	
FAMILY TROCHILIDAE						
23	Green Hermit	Ermitaño Verde	Phaethornis guy	R	Common	
24	Little Hermit	Ermitaño Enano	Phaethornis longuemareus	R	Rare	
25	Violet Sabrewing	Ala de Sable Violáceo	Campylopterus hemileucurus	R	Rare	
26	Green Violet-ear	Colibrí Orejivioláceo Verde	Colibri thalassinus	R	Uncommon	
27	Snowy-bellied Hummingbird	Amazilia Vientriblanca	Amazilia edward	R	Common	

28	Rufus-tailed Hummingbird	Amazilia Rabirrufa	Amazilia tzacatl	R	Uncommon
29	Striped-tailed Hummingbird	Colibrí Colirrayado	Eupherusa eximia	R	Common
30	White-tailed Emerald	Esmeralda Coliblanca	Elvira chionura	R	Rare
31	Gray-tailed Mountain Gem	Colibrí Montañas Coligrís	Lampornis cinereicauda	R	Common
32	Green-crowned Brilliant	Brillante Frentiverde	Heliodoxa jacula	R	Uncommon
33	Magnificent Hummingbird	Colibrí Magnífico	Eugenes fulgens	R	Uncommon
34	Purple-crowned Fairy	Colibrí Picopunzón	Heliothryx barroti	R	Uncommon
35	Scintillant Hummingbird	Chispita Gorginaranja	Selasphorus scintilla	R	Common
FAMILY TROGONIDAE					
36	Resplendent Quetzal	Quetzal	Pharomachrus mocinno	R	Uncommon
37	Collared Trogon	Trogón Collarejo	Trogon collaris	R	Common
FAMILY MOMOTIDAE					
38	Blue-crowned Motmot	Momoto Común	Momotus momota	R	Uncommon
FAMILY CAPITONIDAE					
39	Red-headed Barbet	Barbudo Cabecirrojo	Eubucco bourcierii	R	Uncommon
FAMILY RAMPHASTIDAE					
40	Emerald Toucanet	Tucancillo Verde	Aulacorhynchus prasinus	R	Common
FAMILY PICIDAE					
41	Olivaceous Piculet	Carpenterito Olivaceo	Picumnus olivaceous	R	Rare
42	Acorn Woodpecker	Carpintero Careto	Melanerpes formicivorus	R	Uncommon
43	Hairy Woodpecker .	Carpintero Serranero	Picoides villosus	R	Uncommon
44	Golden-olive Woodpecker	Carpintero Verde Dorado	Piculus rubiginosus	R	Rare
FAMILY DENDROCOLAPTIDAE					
45	Wedge-billed Woodcreeper	Trepadorcito Pico de Cuña	Glyphorhynchus spirurus	R	Rare
46	Spotted-crowned Woodcreeper	Trepador Cabecipunteado	Lepidocolaptes affinis	R	Abundant
47	Brown-billed Scythebill	Trepador Pico de Hoz	Campylorhamphus pusillus	R	Rare
FAMILY FURNARIIDAE					
48	Red-faced Spinetail	Colaespina Carirroja	Cranioleuca erythroptis	R	Common
49	Spotted Barbtail	Subepalo Moteado	Premnoplex brunnescens	R	Uncommon
50	Ruddy Treerunner	Trepador Rojizo	Margarornis rubiginosus	R	Uncommon
51	Buffy Tuftedcheek	Trepamusgo Cachetón	Pseudocolaptes lawrencii	R	Uncommon
52	Lineated Foliage-gleaner	Trepamusgo Lineado	Syndactyla subalaris	R	Common
53	Spectacled Foliage-gleaner .	Trepamusgo de Anteojos	Anabacerthia variegaticeps	R	Rare
54	Buff-fronted Foliage-gleaner	Trepamusgo Rojizo	Philydor rufus	R	Uncommon
55	Streaked-breasted Treehunter	Trepamusgo Cuellirojizo	Thripadectes rufobrunneus	R	Uncommon
56	Streaked Xenops	Xenops Rayado	Xenops rutilans	R	Rare
FAMILY FORMICARIIDAE					
57	Slaty Antwren	Hormiguerito Pizarroso	Myrmotherula schisticolor	R	Uncommon
FAMILY TITYRIDAE					
58	Barred Becard	Cabezón Ondeado	Pachyramphus versicolor	R	Common
59	Masked Tityra	Tityra Carirroja	Tityra semifasciata	R	Common
FAMILY TYRANNIDAE					

60	Black Phoebe	Mosquero de Agua	Sayornis nigricans	R	Uncommon
61	Boat-billed Flycatcher	Mosquerón Picudo	Megarhynchus pitangua	R	Rare
62	Golden-bellied Flycatcher	Mosquero Vientridorado	Myiodynastes hemichrysus	R	Common
63	Gray-capped Flycatcher	Mosquero Cabecigrís	Myiozetetes granadensis	R	Rare
64	Social Flycatcher .	Mosquero Cejiblanco	Myiozetetes similis	R	Rare
65	Great Kiskadee	Bienteveo Grande	Pitangus sulphuratus	R	Rare
66	Dusky-capped Flycatcher	Copetón Crestioscuro	Myiarchus tuberculifer	R	Rare
67	Eastern Wood-Pewee	Pibí Oriental	Contopus virens	M	Common
68	Dark Pewee	Pibí Sombrío	Contopus lugubris	R	Rare
69	Ochraceous Pewee	Pibí Ocraceo	Contopus ochraceus	R	Rare
70	Yellowish Flycatcher	Mosquerito Amarillento	Empidonax flavescens	R	Common
71	Black-capped Flycatcher	Mosquerito Cabecinegro	Empidonax atriceps	R	Rare
72	Tufted Flycatcher	Mosquerito Moñudo	Mitrephanes phaeocercus	R	Common
73	Eye-ringed Flatbill	Piquiplano de Anteojos	Rhynchocyclus brevirostris	R	Rare
74	Torrent Tyrannulet	Mosquerito Guardarrios	Serpophaga cinerea	R	Common
75	Mountain Elaenia	Elainia Montañera	Elaenia frantzii	R	Uncommon
76	Mistletoe (Paltry) Tyrannulet	Mosquerito Cejigrís	Zimmerius vilissimus	R	Abundant
77	Slaty-capped Flycatcher	Mosquerito Orejinegro	Leptopogon superciliaris	R	Rare
78	Olive-striped Flycatcher	Mosquerito Ojimanchado	Mionectes olivaceus	R	Uncommon
FAMILY HIRUNDINIDAE					
79	Blue-and-White Swallow	Golondrina Azul y Blanco	Notiochelidon cyanoleuca	R	Common
FAMILY CORVIDAE					
80	Silvery-throated Jay	Urraca Gorgiplateada	Cyanolyca argentigula	R	Uncommon
FAMILY TROGLODYTIDAE					
81	Plain Wren	Soterrey Chinchirigú	Thryothorus modestus	R	Rare
82	House Wren	Soterrey Cucarachero	Troglodytes aedon	R	Common
83	Ochraceous Wren	Soterrey Ocroso	Troglodytes ochraceus	R	Uncommon
84	Gray-breasted Wood-wren	Soterrey de Selva Pechigrís	Henicorhina leucophrys	R	Abundant
FAMILY TURDIDAE					
85	Clay-colored Robin	Mirlo Pardo (Yiguirro)	Turdus grayi	R	Common
86	Mountain Robin	Mirlo Montañero	Turdus plebejus	R	Common
87	Black-faced Solitaire	Solitario Carinegro	Myadestes melanops	R	Common
88	Slaty-backed Nightingale-Thrush	Zorzal Sombrío	Catharus fuscater		
89	Ruddy-capped Nightingale-Thrush	Zorzal Gorrirojizo	Catharus frantzii	R	Common
90	Orange-billed Nightingale Thrush	Zorzal Piquianaranjado	Catharus aurantiirostris	R	Rare
FAMILY CINCLIDAE					
91	American Dipper	Mirlo Acuatico Plomizo	Cinclus mexicanus	R	Common
FAMILY PTILOGONATIDAE					
92	Long-tailed Silky-flycatcher	Capulinero Colilargo	Ptilogonys caudatus	R	Uncommon
FAMILY VIREONIDAE					
93	Rufus-browed Peppershrike	Vireon Cejirrufo	Cyclarhis gujanensis	R	Common
94	Yellow-winged Vireo	Vireo Aliamarillo	Vireo carmioli	R	Common
95	Red-eyed Vireo	Vireo Ojirrojo	Vireo olivaceus	M	Uncommon
96	Philadelphia Vireo	Vireo Amarillento	Vireo philadelphicus	M	Uncommon
97	Brown-capped Vireo	Vireo Montañero	Vireo leucophrys	R	Common

FAMILY COEREBIDAE				
98	Bananaquit	Reinita Mielera	Coereba flaveola	R Common
FAMILY PARULIDAE				
99	Black-and-White Warbler	Reinita Trepadora	Mniotilta varia	M Uncommon
100	Golden-winged Warbler	Reinita Alidorada	Vermivora chrysoptera	M Uncommon
101	Tennessee Warbler	Reinita Verdilla	Vermivora peregrina	M Common
102	Flame-throated Warbler	Garganta de Fuego	Parula gutturalis	R Uncommon
103	Tropical Parula	Parula Tropical	Parula pitiayumi	R Common
104	Black-throated Green Warbler	Reinita Cariamarilla	Dendroica virens	M Common
105	Blackburnian Warbler	Reinita Gorginaranja	Dendroica fusca	M Common
106	Louisiana Waterthrush	Reinita Acuatica Piquigrande	Seiurus motacilla	M Uncommon
107	Gray-crowned Yellowthroat	Antifacito Coronigris	Geothlypis poliocephala	R Rare
108	Wilson's Warbler	Reinita Gorrinegra	Wilsonia pusilla	M Abundant
109	Canada Warbler	Reinita Pechirrayada	Wilsonia canadensis	M Rare
110	Slate-throated Redstart	Candelita Pechinegra	Myioborus miniatus	R Abundant
111	Collared Redstart	Candelita Collareja	Myioborus torquatus	R Abundant
112	Golden-crowned Warbler	Reinita Coronidorada	Basileuterus culicivorus	R Rare
113	Three-striped Warbler	Reinita Cabecilstada	Basileuterus tristriatus	R Abundant
114	Black-cheeked Warbler	Reinita Carinegra	Basileuterus melanogenys	R Abundant
FAMILY ICTERIDAE				
115	Baltimore Oriole	Bolsero Norteño	Icterus galbula	M Uncommon
FAMILY THRAUPIDAE				
116	Golden-browed Chlorophonia	Clorofonia Cejidorada	Chlorophonia callophrys	R Uncommon
117	Blue-hooded Euphonia	Eufonia Capuchiceleste	Euphonia elegantissima	R Common
118	Speckled Tanager	Tangara Moteada	Tangara guttata	R Common
119	Silver-throated Tanager	Tangara Dorada	Tangara icterocephala	R Abundant
120	Golden-hooded Tanager	Tangara Capuchidorada	Tangara larvata	R Common
121	Bay-headed Tanager	Tangara Cabecicastaña	Tangara gyrola	R Common
122	Spangled-cheeked Tanager	Tangara Ventricastaña	Tangara dowii	R Common
123	Scarlet-thighed Dacnis	Mielero Celeste y Negro	Dacnis venusta	R Common
124	Blue-gray Tanager	Tangara Azuleja	Thraupis episcopus	R Uncommon
125	Scarlet-rumped Tanager	Tangara de Passerini	Ramphocelus passerinii	R Common
126	Summer Tanager	Tangara Veranera	Piranga rubra	M Uncommon
127	Hepatic Tanager	Tangara Bermeja	Piranga flava	R Rare
128	White-winged Tanager	Tangara Aliblanca	Piranga leucoptera	R Uncommon
129	Flame-colored Tanager	Tangara Dorsirrayada	Piranga bidentata	R Common
130	Common Bush Tanager	Tangara de Monte Ojeruda	Chlorospingus ophthalmicus	R Abundant
131	Sooty-capped Bush Tanager	Tangara de Monte Cejiblanca	Chlorospingus pileatus	R Rare
FAMILY EMBERIZIDAE				
132	Buff-throated Saltator	Saltator Gorgianteado	Saltator maximus	R Uncommon
133	Black-thighed Grosbeak	Picogrueso Vientriamarillo	Pheucticus tibialis	R Uncommon
134	Rose-breasted Grosbeak	Picogrueso Pechirrosado	Pheucticus ludovicianus	M Rare
135	Yellow-faced Grassquit	Semillerito Cariamarillo	Tiaris olivacea	R Abundant
136	Blue Seedeater	Semillero Azulado	Amaurospiza concolor	R Rare
137	Slaty Flowerpiercer	Pinchaflor Plomizo	Diglossa plumbea	R Uncommon
138	Yellow-thighed Finch	Saltón de Muslos Amarillos	Pselliophorus tibialis	R Abundant
139	Yellow-throated Brush Finch	Saltón Gargantiamarilla	Atlapetes gutturalis	R Uncommon
140	Chestnut-capped Brush Finch	Saltón Cabecicastaño	Atlapetes brunneinucha	R Common
141	Rufus-collared Sparrow	Chingolo	Zonotrichia capensis	R Abundant
FAMILY FRINGILLIDAE				
142	Lesser Goldfinch	Jilguero Minor	Carduelis psaltria	R Uncommon
143	Yellow-bellied Siskin	Jilguero Vientriamarillo	Carduelis xanthogastra	R Uncommon

