

Report on a rapid bird census in the eastern half of the upper Bladen watershed

11-13 April 2013

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ABSTRACT

A 3-day rapid bird census was carried out between 11 and 13 April 2013, as a follow up to the 1987 Manomet Bird Observatory and Missouri Botanical Garden expedition to the Upper Bladen Branch Nature Reserve in Toledo District in the south of Belize. A total of 233 bird species were positively identified by the 2013 team. This report gives data for all confirmed observations, makes comparisons with the 1987 data and gives some further recommendations.

INTRODUCTION

Between February 28 – 29 March 1987, 11 personnel from the Manomet Bird Observatory and Missouri Botanical Garden, plus 2 Belizeans from Mango Creek, made a biological survey of the Upper Bladen Branch watershed in the Mayan Mountains of Belize. The 44 page expedition report¹ included an initial management plan for this remote, undeveloped and biologically rich part of southern Belize. The main recommendation of the report was that the whole area be established as an inviolate nature preserve, within a wider conservation region.

In 1990, the Belizean Government declared the 99,796 acres (40,386 ha) of the Upper Bladen watershed a Strict Nature Reserve², the highest status of IUCN protection; one of only three such highly protected areas in Belize³. As such, access has since been strictly limited by permit, with a permanent ranger presence within the reserve and regular ranger patrols to guard against human encroachment and exploitation of the natural resources. In 2005, the Belize Foundation for Research and Environmental Education (BFREE⁴) was set up, and this has enabled much scientific research to be carried out, under strict access controls, within the reserve. Since December 2008, the Bladen Nature Reserve (BNR) has been managed the Ya'axché Conservation Trust (Ya'axché) in partnership with the Belize Government.

The authors of this report first met in Belize, during the period that one of them was assigned to the British Armed Forces between 1986 and 1988, and since meeting, it has always been their aspiration to visit the Bladen, being as it was clearly excellent for avifauna. An opportunity arose for this to take place in early 2013, and so planning started on carrying out a rapid bird census of the eastern half of the Upper Bladen Reserve. The team was to include a Ya'axché Ranger, who lived just outside the reserve's boundary, a trainee ringer/bander, and a professional bird guide: all three were very experienced field observers and very familiar with the identification of the bird species which are to be found in this part of southern Belize. The total of 7 members of the expedition is listed at **Appendix A**.

¹ The Bladen Branch Wilderness. A Special Report. The Manomet Bird Observatory, PO Box 936, Manomet, Massachusetts, 02345, USA. October 1987.

² IUCN Category Ia Strict nature reserve — An area which is protected from all but light human use in order to preserve the geological and geomorphological features of the region and its biodiversity.

³ All protected areas within Belize are detailed at: http://www.protectedplanet.net/countries/22

⁴ Belize Foundation for Research and Environmental Education: http://www.bfreebz.org

Although records of birds encountered on ranger patrols and visits by avian specialists are recorded by Ya'axché, and at least 352 species of birds have so far been recorded for the reserve, as planning started for the 2013 survey, no published material could be found about the birds of BNR. However, just before the expedition took place, a book⁵ became available, which is invaluable for all those interested in the Upper Bladen ecosystem. It stated that more than 352 species of birds had been recorded within the BNR, and listed 345 of these.

It was decided that the expedition would hike in via the only official entrance to the reserve, off the Southern Highway, via the Ranger Station, and spend 2 nights camping in the eastern part of the reserve, reaching as far as Calera Camp and the Quebrada de Oro River. The detailed itinerary for the 3 days is at **Appendix B**. All bird species that were positively identified, either heard or seen, would be recorded in each sector that was hiked. In entering the Upper Bladen Branch basin from its eastern end, via Forest Hill⁶, and walking some 10km west⁷ along the southern side of the Bladen Branch, the team were able to census four of the six areas that the 1987 expedition had visited⁸. Although no mist netting was carried out by the 2013 expedition, as had been the case by qualified banders in the 1987 team, this was offset by the considerable local knowledge of those in the 2013 team

AIM

To carry out a rapid bird census over a 3 day period in the eastern part of the Upper Bladen Reserve, as far as the Upper Quebrada de Oro River, record all positively identified bird species, and compare the bird species recorded in the same areas by the expedition mounted in 1987 by Manomet Bird Observatory and Missouri Botanical Garden.

RESULTS OF RAPID BIRD CENSUS

The numbers of each bird species identified are at **Appendix C**. The taxonomic order and abundance and seasonality status codes are as per Jones and Vallely, 2001⁹.

Numbers recorded in the tables are based on birds seen or positively identified by their call, or a minimum estimate when an exact number could not be ascertained.

There was a possibility of double counting, as the team hiked in along the same trail as it left the valley. Some species which can be heard and identified from a distance, e.g. parrots,

⁵ Biodiversity of the Maya Mountains, a focus on the Bladen Nature Reserve, by Daniel C Dourson. 2012. Goatslug Publications, Bakersville, NC, USA. ISBN: 978-0-615-72795-0.

⁶ Forest Hill is assumed to be the point on the vehicle track to BFREE Field Station from which the trail enters the Upper Bladen Reserve to follow the southern bank of the Upper Bladen River.

⁷ This distance is only the east to west measurement; the hike itself was considerably further due to the meandering of the Bladen Branch.

⁸ The 2013 expedition covered Forest Hill, Richardson Creek, and both the lower and upper reaches of the Quebrada de Oro rivers. It did not penetrate far enough west to cover the Ridge or Ramos Creek which the 1987 expedition included in it's expedition. Neither expedition covered the terrain to the west of these latter two areas, i.e. the majority of the western half of the Upper Bladen Reserve was not covered by either expedition.

 $^{^{2}}$ Annotated Checklist of the Birds of Belize, by H Lee Jones and A C Vallely, Lynx Editions 2001. ISBN: 84-87334-35-0.

woodpeckers, motmots etc may have been recorded in more than one transect, but it is impossible to be sure.

The original data spreadsheet gives a detailed breakdown of where each bird species was recorded, with an indication of the potential for double counts, and is available on request.

The team identified 233 species in 3 days between 11 and 13 April 2013 (a similar time of year as the 1987 expedition).

The records include 50 species categorized as either summer (7) or winter (37) visitors or transients (6), as opposed to residents in the Toledo District, as per the Annotated Checklist of the Birds of Belize⁹.

Of the 233 species, 73% were in the very common, common, or fairly common categories, whilst the team recorded 52 species were are categorized as less common, including the rare Harpy Eagle, a species at the extreme northern limit of its range in the Americas, Ornate Hawk Eagle and Black-and-white Hawk-Eagle. Also, singles of Green Heron and Black-throated Bobwhite, which are currently assessed as occurring marginally in the Toledo District, were seen. A beautiful male Painted Bunting was seen in riverside grass on the Lower Quebrada de Oro; this is currently categorised as occasional in Toledo District. ¹ The total in the marginal category includes the sighting of 3 White-fronted Parrots; this species does not have an abundance status for Toledo District in the Annotated Checklist of the Birds of Belize.

Table 1: Number of species censused in 2013- by abundance category for Toledo district (categories as per Jones and Vallely, 2001).

| Abundance category for the Toledo District | Very Common | Common | Fairly Common | Un- common | Rare | Oc- casional | Scarce in most of Toledo District | Marginall y occurs in Toledo District |
|--|----------------|--------|------------------|---------------|------|-----------------|--|--|
| | V | С | F | U | R | 0 | I | М |
| Number of species recorded by the 2013 census team | 25 | 104 | 52 | 32 | 3 | 1 | 13 | 3 |

The 5 most abundant species as recorded by the 2013 census were, in descending order: Chestnut-headed Oropendola, Brown-hooded Parrot, White-collared Manakin, Red-throated Ant Tanager and Keel-billed Toucan. All of these species are very vocal and readily identifiable at a distance, and so their relative abundance, when compared with quieter less obvious species, are likely to be over stated.

COMPARISON OF RESULTS OF RAPID BIRD CENSUS WITH THE 1987 EXPEDITION

The 1987 expedition recorded 194 species of birds¹⁰, but of these, 184 were recorded in the same areas that the 2013 census visited⁸. However, members of the 2013 team believe that 2 of the species recorded by the 1987 team are dubious¹¹; these are Magnificent Hummingbird and Audubon's (Black-headed) Oriole.

The 1987 expedition caught and ringed 345 birds of 71 species; of these, 80% were permanent residents. Table 2 shows percentages based on all records of the 1987 expedition, not just based on those species that were caught and ringed. 26 years apart, the percentage results of the 2 teams, for the seasonality status of the avifauna in the eastern part of the Upper Bladen at this time of year, are very similar.

Table 2: Comparison of species between the two expeditions by season status

| | | Permanent | Wintering | Transient | Summer migrants | Visitor |
|-----------------|-------------------|-----------|-----------|-----------|--------------------|---------|
| 2013 Census | Number of species | 182 | 37 | 6 | 7 | 1 |
| (233 species) | Percentage | 78% | 16% | 2.5% | 3% | 0.5% |
| 1987 Expedition | Number of species | 142 | 29 | 2 | 7 | 2 |
| (182 species) | Percentage | 78% | 16% | 1% | 4% | 1% |

The 2013 census recorded 79 species that were not recorded by the 1987 expedition, in the areas those both team's visited. Conversely, the 1987 expedition recorded 28 species that were not recorded by the 2013 census in the same areas. Collectively, the 2 expeditions recorded 265 (plus 2 disputed) species in the eastern part of the Upper Bladen Basin which they both visited.

Three White-tipped Doves were recorded in the 2013 census, a species which is categorized in Jones and Vallely, 2001, as marginally occurring in the Toledo District. This species was also recorded by the 1987 expedition.

Three White-fronted Parrots were recorded in the 2013 census, a species that is not recorded by Jones and Vallely, 2001, as occurring in the Toledo District. This species was also recorded by the 1987 expedition.

Interestingly, the abundance of game birds recorded on the 2013 expedition is the opposite to the abundance order listed in Jones and Vallely, 2001. It is suggested that this is because

¹⁰ The 1987 expedition actually recorded 189 species, plus an additional 5 species on a previous visit to the area in May 1985; hence the total of 194 in the report (Appendix C).

Disputed 1987 species records are: Magnificent Hummingbird (Eugenes fulgens) which was recorded in the Upper Quebrada by the 1987 expedition. This is a highland species, normally encountered at 1000-3000 meters ASL (as per Howell and Webb, 1995), but the Upper Quebrada is less than 600 metres ASL. The nearest population of the resident Audubon's Oriole (Icterus graduacauda) is Oaxaca and Veracruz states in Mexico (Howell and Webb, 1995), and so it is more likely that the bird seen on Richardson's Creek by the 1987 team was a female Black-cowled Oriole (Icterus prosthemelus).

the abundance statuses in Jones and Vallely, 2001, are skewed towards habitats that are more disturbed that the pristine BNR.

Table 3: Comparison of status of main game species between 1987 and 2013 (abundance categories as per

Jones and Vallely, 2001)

| | 2013 Censu | S | | Species a | abundance as per 1 | 987 Expedition | |
|-------------------------------|------------|--------|--------|----------------|--|--|---|
| | Abundance | Status | Number | Forest Hill | Richardson's Creek and upstream to Calera Caves | Lower Quebrada de Oro and Bladen from Calera to Hellgate | Upper reaches of Quebrada de Oro |
| Great Curassow | U | Р | 29 | - | U | - | С |
| Crested Guan | U | Р | 13 | - | R | R | U |
| Great Tinamou | F | Р | 11 | - | С | С | С |
| Little Tinamou | F | Р | 8 | - | С | С | С |
| Slate- breasted Tinamou | F | Р | 6 | - | С | С | С |
| Plain Chachalaca | С | Р | 2 | С | U | - | - |

CONCLUSIONS

Recruiting highly experienced field observers to the team enabled a very effective rapid bird census to be carried out over a 3 day period in an extensive area of rain forest.

The technique of censusing the area by observers remaining on the tracks, or hiking along river beds, is an effective and non intrusive way of carrying out a repeatable sample of the avifauna of the area, given the difficulty and disturbance to wildlife if observers were to attempt to move across the terrain away from trails.

The composition of species, as categorised by their seasonality status, was very similar between the 2 expeditions, which were separated by 26 years (Table 2).

The populations of bird game species seemed to be healthy, with notable numbers of Great Curassow seen and heard; this would indicate the absence or very little hunting in the eastern end of the BNR.

Certain species are restricted to particular habitat types, others were encountered in a variety of habitats, and others, by nature of their wide roaming, could be seen or heard overhead anywhere, e.g. vultures, parrots and swifts.

Few mammals or their tracks¹² were seen and the one Peccary that was seen was extremely wary; this may indicate illegal hunting activity.

A few shoals, each comprising up to 100 Mountain Mullet (Agonostomus monticola), with the larger fish approximately 2 feet in length, were seen slowly swimming downstream; this may indicate low levels of fishing of the Bladen Branch River.

It is understood from the Ya'axché rangers that regular illegal incursions from Guatemala result in illegal exploitation of the BNR. This includes extraction of the ornamental xaté (pronounced: shatay). These are the leaves from 3 Chamaedorea species of palm tree (Chamaedorea ernesti-augustii, Chamaedorea elegans and Chamaedorea oblongata).

RECOMMENDATIONS

- 1. To carry out a follow-on rapid bird census, perhaps at approximately the same time in 2014, to cover the whole of the Upper Bladen basin area, i.e. to the west of the area covered by the 2013 census, including two sites covered by the 1987 expedition, Ridge and Ramos; and if time and manpower permits, also some of the higher slopes within the watershed.
- 2. Ya'axché, in collaboration with BFREE, to publish the updated list of at least 352 bird species which have so far been recorded in the BNR.
- 3. The Belizean Government, in partnership with Ya'axché, to investigate how illegal encroachment by Guatemalans across the border into the western end of the Upper Bladen Nature Reserve can be halted and to put measures in place to eliminate exploitation of plants and animals in this part of the Nature Reserve.
- 4. To maintain the IUCN Category Ia (Strict nature reserve) status of the Upper Bladen Basin.

Tracks were seen of Puma, Tapir and Brocket Deer. The only mammal seen was a Peccary species (either White-lipped (*Tayassu pecari*) or Collared Peccary (*Tayassu tajacu*) and Black Howler Monkeys (*Allouatta pigra*) were heard.

APPENDIX A

11 – 13 APRIL 2013 RAPID BIRD CENSUS OF THE UPPER BLADEN BRANCH, TOLEDO DISTRICT, BELIZE

EXPEDITION MEMBERS

| Name | Function | Role |
|--|---|----------------|
| Philip Balderamos | President of the Belize Audubon Society 1991–1992 | Team Leader |
| Nick Smith, BSc(Hons) Environmental Science | Royal Air Force Logistics Officer | Co-leader |
| Victor Bonilla | Ya'axché Ranger since 2004 and specialist in the birds of BNR | Member |
| Maarten Hofman, MSc Ecology, BSc Wildlife Management | Ya'axché Research Coordinator | Member |
| Israel Manzanero ('Junior') | Professional Bird Guide, Blue Hole NP | Member |
| Tom Pienkowski, BSc Environmental Conservation | Ya'axché Development Officer | Member |
| Liberato Pop ('Gato') | Trainee Bird Ringer and Avian Technician | Member |

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APPENDIX B

11 – 13 APRIL 2013 RAPID BIRD CENSUS OF THE UPPER BLADEN BRANCH, TOLEDO DISTRICT, BELIZE

ITINERARY

10 APRIL

pm. PB, NS and IM and LP drive from Belmopan to home of VB at Medina Bank. Overnight.

11 APRIL

0500–0510hrs. PB, NS and IM and LP drive to BNR Ranger Station and leave vehicle with Rangers.

0530-0630hrs. Hike along BFREE vehicle track through savannah habitat.

0650-0710hrs. Hike along BFREE vehicle track through transition habitat, to Forest Hill.

0720-0820 hrs. Hike along trail through broad leaved deciduous forest to Blue Pool.

0830-0920 hrs. Hike along trail from Blue Pool to Fishbone Crossing.

0940–1030 hrs. Hike along trail from Fishbone Crossing to Richardson Camp.

1030–1040hrs. Hike along trail from Richardson Camp to Solomon Camp. TP and MH join.

1040–1225hrs. Team hikes along trail from Solomon Camp to Richardson Creek/Bland Branch confluence.

1240–1525hrs. Team hikes along trail from Richardson Creek/Bland Branch confluence to Calera.

1240–1525hrs. Team hikes along trail from Richardson Creek/Bland Branch confluence to Calera.

Overnight at Calera Camp

12 APRIL

0600-0700hrs and 1000-1230hrs. PB, VB, MH and IM survey area around Calera Camp.

0600-0730hrs. LP, NS and TP hike to Lower Quebrada de Oro.

0750-0830hrs. LP, NS and TP hike up Lower Quebrada de Oro.

0840-1000hrs. LP, NS and TP hike up Upper Quebrada de Oro.

1100–1130hrs. LP, NS and TP hike down Upper Quebrada de Oro.

1135–1245hrs. LP, NS and TP hike from Upper Quebrada de Oro to Calera Camp.

Ya'axché Conservation Trust

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0700–1000hrs. PB, VB, MH and IM hike from Calera Camp to Calera and return to Calera Camp.

1430-1550hrs. Team hikes from Calera Camp to Richardson Camp. Overnight at Richardson Camp

13 APRIL

0530-0730hrs. Team surveys area around Richardson Camp.

0700–1000hrs. VB, MH, IM hike from Richardson Camp up Richardson Creek, then catch rest of team up.

0900–1105hrs. PB, NS, TP and LP hike from Richardson Camp to Solomon Camp.

1020–1100hrs. PB, NS, TP and LP hike from Solomon Camp to Fishbone Crossing.

1145–1100hrs. Team hikes from Fishbone Crossing to Blue Pool.

1255-1330hrs. Team hikes from Blue Pool to BFREE track (Forest Hill).

pm. Team disperses

Appendix C

11 – 13 APRIL 2013 RAPID BIRD CENSUS OF THE UPPER BLADEN BRANCH, TOLEDO DISTRICT, BELIZE

SPECIES LIST

| | | | | 2013 | | | 1987 | | |
|----|----------------------------|-----------------------------|------------------------|--------------------------|------------------------------------|----------------|--|-----------------------------|----------------------|
| | Common Name | Scientific Name | Abundance [†] | Seasonality [†] | Totals for Rapid Bird Census | Forest Hill | Lower QdO* and Bladen from Calera to Hellgate | Upper reaches of QdO* | Total for 1987 |
| 1 | Great Tinamou** | Tinamus major | Ь | Ь | 11 | | С | C | \wedge |
| 2 | Little Tinamou** | Crypturellus soui | Ь | d | 8 | | С | C | > |
| 3 | Slate-breasted Tinamou** | Crypturellus boucardi | Ь | Ь | 9 | | С | C | > |
| 4 | Bare-throated Tiger Heron | Tigrisoma mexicanum | N | Ь | 0 | X | | X | \wedge |
| 5 | Great Blue Heron | Ardea herodias | C | \wedge | 0 | | | | \wedge |
| 9 | Great Egret | Ardea alba | ^ | Ь | 1 | | | | |
| 7 | Little Blue Heron | Egretta caerulea | ^ | \wedge | 2 | | | | \wedge |
| 8 | Green Heron | Butorides virescens | C | > | 1 | | С | C | 1 |
| 6 | Chestnut-bellied Heron | Agamia agami | R | Ь | 0 | | × | | \checkmark |
| 10 | Yellow-crowned Night-Heron | Nyctanassa violacea | C | Ь | 0 | | | | \wedge |
| 11 | Boat-billed Heron | Cochlearius cochlearius | | Ь | 1 | | | | |
| 12 | Black Vulture | Coragyps atratus | ^ | Ь | 0 | | | | |
| 13 | Turkey Vulture | Cathartes aura | \ | Ь | 3 | С | U | | \checkmark |
| 14 | King Vulture | Sarcoramphus papa | U | Ь | 3 | | n | | \wedge |
| 15 | Muscovy Duck | Cairina moschata | U | Ь | 0 | × | | | \checkmark |
| 16 | Blue-winged Teal | Anas discors | C | M | 12 | | | | |
| 17 | Osprey | Pandion haliaetus | F | Ь | 2 | | | | \wedge |
| 18 | Swallow-tailed Kite | Elanoides forficatus | F | S | 3 | U | | | \wedge |
| 19 | White-tailed Kite | Elanus leucurus | F | Ь | 1 | | | | |
| 20 | Double-toothed Kite | Harpagus bidentatus | U | Ь | 0 | | | | \wedge |
| 21 | Plumbeous Kite | Ictinia plumbea | U | S | 0 | | U | | \wedge |

| | | | | 2013 | | | 1987 | | |
|----|----------------------------|----------------------------|------------------------|--------------------------|------------------------------------|----------------|--|-----------------------------|----------------------|
| | Common Name | Scientific Name | Abundance [†] | Seasonality [†] | Totals for Rapid Bird Census | Forest Hill | Lower QdO* and Bladen from Calera to Hellgate | Upper reaches of QdO* | Total for 1987 |
| 22 | White Hawk | Pseudastur albicollis | U | Р | 0 | | n | N | <i>></i> |
| 23 | Gray Hawk | Asturina nitida | F | Р | 1 | | | | \wedge |
| 24 | Common Black-Hawk | Buteogallus anthracinus | F | Р | 1 | | | | |
| 25 | Great Black-Hawk | Buteogallus urubitinga | U | Ь | 1 | | Э | | \wedge |
| 26 | Roadside Hawk | Buteo magnirostris | С | Р | 1 | | | | \wedge |
| 27 | Harpy Eagle | Harpia harpyja | R | Ь | 1 | | | | |
| 28 | Black and White Hawk Eagle | Spizastur melanoleucus | R | Ь | 1 | | | | |
| 29 | Black Hawk-Eagle | Spizaetus tyrannus | П | Ь | 3 | | | | > |
| 30 | Ornate Hawk Eagle | Spizaetus ornatus | R | Р | 1 | | | | |
| 31 | Barred Forest-Falcon | Micrastur ruficollis | U | Р | 6 | | | R | ^ |
| 32 | Collared Forest-Falcon | Micrastur semitorquatus | F | Р | 0 | | | С | \wedge |
| 33 | Laughing Falcon | Herpetotheres cachinnans | Ь | Ь | 3 | × | | | \nearrow |
| 34 | Aplomado Falcon | Falco fermoralis | | Р | 1 | | | | |
| 35 | Bat Falcon | Falco rufigularis | F | Р | 3 | | | | \nearrow |
| 36 | Plain Chachalaca** | Ortalis vetula | С | Р | 2 | C | | | > |
| 37 | Crested Guan** | Pnelope purpurascens | U | Р | 13 | | R | U | ^ |
| 38 | Great Curassow** | Craxrubra | U | Р | 29 | | | С | ^ |
| 39 | Black-throated Bobwhite | Colinus nigrogullaris | Σ | Р | 1 | | | | |
| 40 | Spotted Wood Quail | Odontophorus guttatus | U | Ь | 2 | | n | N | <i>></i> |
| 41 | Gray-necked Wood Rail | Aramides cajanea | F | Р | 2 | | | | |
| 42 | Limpkin | Aranus guarauna | С | Ь | 5 | | | | |
| 43 | American Golden-Plover | Pluvialis dominica | 1 | T | 0 | | | | |
| 44 | Solitary Sandpiper | Tringa solitaria | F | | 0 | | × | | \nearrow |
| 45 | Spotted Sandpiper | Actitis macularius | С | | 7 | | С | | > |
| 46 | Pale-vented Pigeon | Columba cayennensis | ^ | Ь | 2 | | | | |
| 47 | Scaled Pigeon | Columba speciosa | U | Ь | 3 | | | | |
| 48 | Short-billed Pigeon | Patagioenas nigrirostris | С | Р | 29 | | С | C | ^ |
| 49 | Pale-breasted Ground Dove | Columbina minuta | C | Ь | 3 | | | | |
| 90 | Ruddy Ground-Dove | Columbina talpacoti | > | Ь | 0 | × | | | > |
| 51 | Blue Ground-Dove | Claravis pretiosa | C | Ь | 14 | 0 | C | \cap | > |
| 52 | White-tipped Dove | Leptotila verreauxi | Σ | Ь | 3 | × | | | > |
| 53 | Gray-fronted Dove | Leptotila rufaxilla | C | Р | 3 | | n | | > |

| | | | | 2013 | | | 1987 | | |
|----|-----------------------------|----------------------------|------------------------|--------------------------|------------------------------------|--------|--|-----------------------------|----------------------|
| | Common Name | Scientific Name | Abundance [†] | Seasonality [†] | Totals for Rapid Bird Census | Forest | Lower QdO* and Bladen from Calera to Hellgate | Upper reaches of QdO* | Total for 1987 |
| 54 | Gray-chested Dove | Leptotila cassini | С | Р | 10 | | U | N | > |
| 25 | Ruddy Quail-Dove | Geotrygon montana | F | Р | 10 | | | | |
| 99 | Olive-throated Parakeet | Aratinga nana | ^ | Р | 31 | | C | С | > |
| 57 | Brown-hooded Parrot | Pionopsitta haematotis | C | Р | 50 | | | | |
| 58 | White-crowned Parrot | Pionus senilis | C | Р | 9 | | n | | > |
| 59 | White-fronted Parrot | Amazona albifrons | | | 3 | | U | | > |
| 09 | Red-lored Parrot | Amazona autumnalis | ^ | Р | 9 | N | U | | ^ |
| 61 | Mealy Parrot | Amazona farinosa | Э | Ь | 15 | | N | | <i>></i> |
| 62 | Yellow-headed Parrot | Amazona oratrix | Ь | Р | 4 | | | | |
| 63 | Squirrel Cuckoo | Piaya cayana | С | Р | 16 | С | C | С | > |
| 64 | Vermiculated Screech Owl | Otus guatamalae | U | Р | 0 | | R | R | ^ |
| 9 | Spectacled Owl | Pulsatrix perspicillata | U | Р | 2 | | × | X | <i>></i> |
| 99 | Central American Pygmy Owl | Glaucidium griseiceps | U | Р | 1 | | C | С | ^ |
| 67 | Ferruginous Pygmy-Owl | Glaucidium brasilianum | | Р | 0 | | | | |
| 89 | Mottled Owl | Ciccaba virgata | С | Р | 4 | С | С | | > |
| 69 | Black-and-white Owl | Ciccaba nigrolineata | R | Р | 0 | × | | | > |
| 70 | Common Nighthawk | Chordeiles minor | _ | S | 0 | × | | | > |
| 71 | Common Pauraque | Nyctidromus albicollis | C | Р | 4 | \cup | U | \bigcirc | > |
| 72 | White-collared Swift | Sreptoprocne zonaris | F | Р | 1 | | U | U | > |
| 73 | Vaux's Swift | Chaetura vauxi | C | Р | 8 | | n | Π | > |
| 74 | Lesser Swallow-tailed Swift | Panyptila cayennensis | Ь | Р | 2 | | | | |
| 75 | Long-tailed Hermit | Phaethornis superciliosus | C | Р | 8 | | C | \bigcirc | > |
| 76 | Stripe-throated Hermit | Phaethornis strigularis | С | Р | 9 | | | U | \nearrow |
| 77 | Scaly-breasted Hummingbird | Phaeochroa cuvierii | U | Ь | 1 | | С | | <i>></i> |
| 78 | Wedge-tailed Sabrewing | Campylopterus curvipennis | | Ь | 1 | | С | \cap | <i>></i> |
| 79 | Violet Sabrewing | Campylopterus hemileucurus | Ь | Ь | 1 | | N | | <i>></i> |
| 80 | White-necked Jacobin | Florisuga mellivora | Ь | Р | 5 | | R | R | ^ |
| 81 | Green-breasted Mango | Anthracothorax prevostii | Ь | Р | 1 | | | | |
| 82 | White-bellied Emerald | Chlorostilbon | C | Р | 11 | | | 8 | > |
| 83 | Azure-crowned Hummingbird | Amazilia cyanocephala | _ | Р | 0 | | | | > |
| 84 | Rufous-tailed Hummingbird | Amazilia tzacatl | > | Ь | 9 | | O | C | > |
| 85 | Purple-crowned Fairy | Heliothryx barroti | N | Р | 1 | | | | |

| | | | | 2013 | | | 1987 | | |
|-----|----------------------------------|--------------------------------|------------------------|--------------------------|------------------------------------|----------------|--|-----------------------------|----------------------|
| | Common Name | Scientific Name | Abundance [†] | Seasonality [†] | Totals for Rapid Bird Census | Forest Hill | Lower QdO* and Bladen from Calera to Hellgate | Upper reaches of QdO* | Total for 1987 |
| 98 | Magnificent Hummingbird*** | Eugenes fulgens | | | 0 | | | × | V |
| 87 | Black-headed Trogon (Citreoline) | Trogon melanocephalus | Э | Р | 10 | | | | \wedge |
| 88 | Gartered Trogon (Violaceous) | Trogon caligatus | Э | Ь | 13 | | n | N | \wedge |
| 89 | Collared Trogon | Trogon collaris | Э | Ь | 1 | | | | \wedge |
| 06 | Slaty-tailed Trogon | Trogon massena | Э | Ь | 15 | N | С | С | \wedge |
| 91 | Tody Motmot | Hylomanes momotula | Э | Ь | 3 | | | | |
| 92 | Whooping Motmot (Blue-crowned) | Momotus subrufescens | Э | Ь | 31 | | С | R | ~ |
| 93 | Keel-billed Motmot | Electron carinatum | | Ь | 3 | | 2 | | > |
| 94 | Ringed Kingfisher | Megaceryle torquata | Ь | Р | 0 | N | | | ^ |
| 98 | Belted Kingfisher | Ceryle alcyon | Э | M | 1 | | | | |
| 96 | Amazon Kingfisher | Chloroceryle amazona | N | Р | 5 | | n | | \wedge |
| 26 | Green Kingfisher | Chloroceryle americana | Э | Ь | 15 | Э | С | C | ~ |
| 86 | American Pygmy Kingfisher | Chloroceryle aenea | С | Ь | 0 | | | | \wedge |
| 66 | White-necked Puffbird | Notharchus hyperrhynchus | R | Ь | 0 | | | | \wedge |
| 100 | White-whiskered Puffbird | Malacoptila panamensis | U | Р | 2 | | | U | \wedge |
| 101 | Rufous-tailed Jacamar | Galbula ruficauda | F | Р | 17 | | U | U | V |
| 102 | Blue-throated (Emerald) Toucanet | Aulacorhynchus caeruleogularis | F | Р | 4 | | × | | V |
| 103 | Collared Aracari | Pteroglossus torquatus | C | Ь | 13 | | C | \bigcirc | ~ |
| 104 | Keel-billed Toucan | Ramphastos sulfuratus | C | Р | 34 | | С | С | V |
| 105 | Acorn Woodpecker | Melanerpes formicivorus | С | Р | 2 | | | | |
| 106 | Black-cheeked Woodpecker | Melanerpes pucherani | F | Р | 19 | U | U | U | \checkmark |
| 107 | Golden-fronted Woodpecker | Melanerpes aurfrons | C | Р | 0 | | | | \checkmark |
| 108 | Smoky-brown Woodpecker | Veniliornis fumigatus | Ц | Ь | 4 | | | | > |
| 109 | Chestnut-colored Woodpecker | Celeus castaneus | U | Р | 0 | | | | V |
| 110 | Lineated Woodpecker | Dryocopus lineatus | C | Р | 2 | | С | U | V |
| 111 | Pale-billed Woodpecker | Campephilus guatemalensis | С | Р | 12 | | U | U | |
| 112 | Rufous-breasted Spinetail | Synallaxis erthrothorax | F | Р | 4 | | | | \wedge |
| 113 | Buff-throated Foliage-gleaner | Automolus ochrolaemus | Ь | Р | 5 | | C | \bigcirc | > |
| 114 | Plain Xenops | Xenops minutus | C | Р | 4 | | C | C | V |
| 115 | Scaly-throated Leaftosser | Sclerurus guatamalensis | n | Ь | 2 | | | \bigcirc | \nearrow |
| 116 | | Dendrocincla anabatina | L | Ь | 3 | | n | \cap | > |
| 117 | Ruddy Woodcreeper | Dendrocincla homochroa | U | Ь | 1 | | R | | \nearrow |

| | | | | 2013 | | | 1987 | | |
|-----|------------------------------|-----------------------------|------------------------|--------------------------|------------------------------------|--------|--|-----------------------------|----------------------|
| | Common Name | Scientific Name | Abundance [†] | Seasonality [†] | Totals for Rapid Bird Census | Forest | Lower QdO* and Bladen from Calera to Hellgate | Upper reaches of QdO* | Total for 1987 |
| 118 | Olivaceous Woodcreeper | Sittasomus griseicapillus | Э | Ь | 2 | | R | | \wedge |
| 119 | Wedge-billed Woodcreeper | Glyphorynchus spirurus | F | Ь | 3 | C | С | С | $^{\vee}$ |
| 120 | Northern Barred-Woodcreeper | Dendrocolaptes sanctithomae | Ь | Ь | 1 | | n | | \wedge |
| 121 | Ivory-billed Woodcreeper | Xiphorhynchus flavigaster | Э | Ь | 15 | | С | С | \wedge |
| 122 | Streak-headed Woodcreeper | Lepidocolaptes souleyetii | N | Ь | 2 | | | | |
| 123 | | Thamnophilus doliatus | Э | Ь | 3 | × | | | \wedge |
| 124 | Western Slaty Antshrike | Thamnophilus atrinucha | Э | Ь | 3 | | | | |
| 125 | | Thamnistes anabatinus | n | Ь | 2 | | | | |
| 126 | | Microrhopias quixensis | O | Ь | 21 | | Э | O | > |
| 127 | Dusky Antbird | Cercomacra tyrannina | Э | Ь | 7 | | | | \nearrow |
| 128 | Black-faced Antthrush | Formicarius analis | Э | Ь | 10 | | С | С | \wedge |
| 129 | Yellow-bellied Tyrannulet | Ornithion semiflavum | Э | Ь | 2 | | | N | \wedge |
| 130 | | Camptostoma imberbe | | Ь | 1 | | | | |
| 131 | Greenish Elaenia | Myiopagis viridicata | F | Ь | 7 | | | | |
| 132 | Yellow-bellied Elaenia | Elaenia flavogaster | \wedge | Ь | 9 | | | | |
| 133 | Ochre-bellied Flycatcher | Mionectes oleagineus | C | Ь | 8 | | С | С | |
| 134 | Sepia-capped Flycatcher | Leptopogon amaurocephalus | F | Ь | 1 | | n | \cap | \wedge |
| 135 | | Oncostoma cinereigulare | C | Ь | 7 | | U | N | $^{\vee}$ |
| 136 | Slate-headed Tody-Flycatcher | Poecilotriccus sylvia | U | Р | 1 | | | | |
| 137 | Common Tody-Flycatcher | Todirostrum cinereum | C | Ь | 3 | | | | |
| 138 | Eye-ringed Flatbill | Rhynchocyclus brevirostris | U | Р | 1 | | | × | > |
| 139 | Yellow-olive Flycatcher | Tolmomyias sulphurescens | C | Р | 11 | | | | |
| 140 | Stub-tailed Spadebill | Platyrinchus cancrominus | C | Р | 7 | | n | \cap | > |
| 141 | Royal Flycatcher | Onychorhynchus coronatus | U | Р | 2 | | | | |
| 142 | Ruddy-tailed Flycatcher | Terenotriccus erythrurus | R | Р | 0 | | R | | V |
| 143 | Sulphur-rumped Flycatcher | Myiobius sulphureipygius | C | Ь | 2 | | U | R | $^{\vee}$ |
| 144 | Olive-sided Flycatcher | Contopus cooperi | U | Т | 0 | | | | \checkmark |
| 145 | Eastern Wood-Pewee | Contopus virens | > | Τ | 5 | | | | |
| 146 | Tropical Pewee | Contopus cinereus | Ь | Р | 7 | | | | |
| 147 | Yellow-bellied Flycatcher | Empidonax flaviventris | C | \wedge | 3 | | C | O | \nearrow |
| 148 | Least Flycatcher | Empidonax minimus | C | \wedge | 4 | | O | | > |
| 149 | Black Phoebe | Sayornis nigricans | | Ь | 3 | | C | | \nearrow |

| | | | | 2013 | | | 1987 | | |
|-----|----------------------------|--------------------------------|------------------------|--------------------------|------------------------------------|----------------|--|-----------------------------|----------------------|
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| 150 | Bright-rumped Attila | Attila spadiceus | С | Р | 9 | | U | N | \wedge |
| 151 | Rufous Mourner | Rhytipterna holerythra | U | Р | 5 | | R | R | $^{\vee}$ |
| 152 | Dusky-capped Flycatcher | Myiarchus tuberculifer | C | Ь | 6 | | | | \wedge |
| 153 | | Myiarchus crinitus | F | W | 1 | | | × | \wedge |
| 154 | | Myiarchus tyrannulus | C | S | 11 | | U | | \wedge |
| 155 | | Pitangus sulphuratus | \vee | Ь | 5 | | n | N | \wedge |
| 156 | Boat-billed Flycatcher | Megarynchus pitangua | С | Ь | 7 | | U | R | > |
| 157 | Social Flycatcher | Myiozetetes similis | > | Ь | 12 | | O | \supset | > |
| 158 | Streaked Flycatcher | Myiodynastes maculatus | | S | 1 | | | | |
| 159 | Sulphur-bellied Flycatcher | Myiodynastes luteiventris | C | S | 11 | | × | | \wedge |
| 160 | Piratic Flycatcher | Legatus leucophaius | Ь | S | 2 | | R | | > |
| 161 | Tropical/Couch's Kingbird | Tyrannus melancholicus/couchii | V/C | Ь | 1 | | | | |
| 162 | Eastern Kingbird | Tyrannus tyrannus | ^ | | 20 | | | | |
| 163 | Fork-tailed Flycatcher | Tyrannus savana | | Ь | 2 | | | | |
| 164 | Thrush-like Schiffornis | Schiffornis turdina | C | Ь | 8 | | n | С | \wedge |
| 165 | Rufous Piha | Lipaugus unirufus | U | Р | 11 | | С | С | |
| 166 | Cinnamon Becard | Pachyramphus cinnamomeus | F | Ь | 6 | | U | \cap | \wedge |
| 167 | White-winged Becard | Pachyramphus polychopterus | | Р | 1 | | | | |
| 168 | Rose-throated Becard | Pachyramphus | U | Р | 7 | | R | × | \wedge |
| 169 | Masked Tityra | Tityra semifasciata | C | Р | 9 | С | С | U | $^{\vee}$ |
| 170 | Black-crowned Tityra | Tityra inquisitor | F | Ь | 0 | | | | \wedge |
| 171 | | Manacus candei | C | Ь | 41 | | С | С | \wedge |
| 172 | Red-capped Manakin | Pipra mentalis | C | Р | 25 | | C | С | \checkmark |
| 173 | White-eyed Vireo | Vireo griseus | C | | 2 | | U | U | \wedge |
| 174 | Yellow-throated Vireo | Vireoflavifrons | F | M | 1 | | | | |
| 175 | Philadelphia Vireo | Vireo philadelphicus | U | W | 4 | | | | |
| 176 | Red-eyed Vireo | Vireo olivaceus | \vee | Т | 2 | | | | |
| 177 | Yellow-green Vireo | Vireoflavoviridis | C | S | 19 | | | | |
| 178 | Tawny-crowned Greenlet | Hylophilus ochraceiceps | C | Р | 10 | | C | C | > |
| 179 | Lesser Greenlet | Hylophilus decurtatus | ^ | Ь | 19 | | C | C | \nearrow |
| 180 | Green Shrike-Vireo | Vireolanius pulchellus | C | Ь | 9 | | O | O | \nearrow |
| 181 | Brown Jay | Cyanocorax morio | > | Р | 14 | C | | | \nearrow |

| | | | | 2013 | | | 1987 | | |
|-----|-------------------------------|----------------------------|------------------------|--------------------------|------------------------------------|----------------|--|-----------------------------|----------------------|
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| 182 | Gray-breasted Martin | Progne chalybea | Э | S | 20 | | | N | <i>></i> |
| 183 | Mangrove Swallow | Tachycineta albilinea | Э | Р | 0 | | | R | <i>></i> |
| 184 | Northern Rough-winged Swallow | Stelgidopteryx serripennis | С | W | 23 | | n | | <i>></i> |
| 185 | Ridgways N R-w Swallow | Steigidopteryx ridgwayi | Э | Р | 19 | | | | |
| 186 | Barn Swallow | Hirundo rustica | Λ | T | 5 | | | | |
| 187 | Band-backed Wren | Campylorhynchus zonatus | | Р | 0 | | R | × | \(\) |
| 188 | Spot-breasted Wren | Thryothorus maculipectus | Λ | Ь | 27 | | С | C | ^ |
| 189 | White-breasted Wood-Wren | Henicorhina leucosticta | C | Ь | 12 | | O | C | > |
| 190 | Nightingale Wren | Microcerculus philomela | | Р | 4 | | | | |
| 191 | Long-billed Gnatwren | Ramphocaenus melanurus | С | Р | 2 | | | R | |
| 192 | Blue-gray Gnatwren | Polioptila caerulea | С | Р | 1 | | | | |
| 193 | Tropical Gnatcatcher | Polioptila plumbea | Ь | Р | 4 | | n | N | <i>></i> |
| 194 | Swainson's Thrush | Catharus ustulatus | F | T | 5 | | | | |
| 195 | | Hylocichla mustelina | C | W | 7 | | C | С | ^ |
| 196 | Clay-colored Thrush | Turdus grayi | C | Р | 14 | | | | |
| 197 | Gray Catbird | Dumetella carolinensis | C | W | 10 | | C | C | > |
| 198 | Tropical Mockingbird | Mimus gilvus | | Р | 1 | | | | |
| 199 | Blue-winged Warbler | Vermivora cyanoptera | Ь | W | 1 | | × | | > |
| 200 | Golden-winged Warbler | Vermivora chrysoptera | U | W | 1 | | | | |
| 201 | Tennessee Warbler | Vermivora peregrina | F | W | 2 | | | | |
| 202 | Yellow Warbler | Setophaga petechia | C | W | 4 | | | | > |
| 203 | Chestnut-sided Warbler | Setophaga pensylvanica | C | W | 9 | | U | U | > |
| 204 | Magnolia Warbler | Setophaga magnolia | С | W | 10 | \cap | C | С | ^ |
| 205 | Black-throated Green Warbler | Setophaga virens | F | W | 4 | | U | С | ^ |
| 206 | Grace's Warbler | Dendroica graciae | C | Р | 3 | | | | |
| 207 | Black-and-white Warbler | Mniotilta varia | С | W | 5 | \cap | U | U | ^ |
| 208 | American Redstart | Setophaga ruticilla | C | W | 4 | С | C | С | > |
| 209 | Prothonotary Warbler | Protonotaria citrea | С | T | 0 | | R | U | ^ |
| 210 | Worm-eating Warbler | Helmitheros vermivorum | Ь | W | 3 | | 8 | R | > |
| 211 | Ovenbird | Seiurus aurocapilla | C | W | 0 | | 8 | | > |
| 212 | Northern Waterthrush | Parkesia noveboracensis | C | W | 14 | | C | C | > |
| 213 | Louisiana Waterthrush | Parkesia motacilla | U | \sim | 2 | | C | O | > |

| | | | | 2013 | | | 1987 | | |
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| 214 | Kentucky Warbler | Geothlypis formosus | С | M | 3 | | C | С | \ |
| 215 | Common Yellowthroat | Geothlypis trichas | С | M | 2 | N | R | | \checkmark |
| 216 | Gray-crowned Yellowthroat | Geothlypis poliocephala | | Р | 1 | | | | |
| 217 | Hooded Warbler | Setophaga citrina | С | M | 3 | | С | n | ^ |
| 218 | Wilson's Warbler | Cardellina pusilla | n | M | 1 | × | | | ^ |
| 219 | | Basileuterus culicivorus | С | Ь | 2 | | | | |
| 220 | | Basileuterus rufifrons | _ | Ь | 0 | | | | |
| 221 | Yellow-breasted Chat | Icteria virens | LL | > | 1 | | × | | > |
| 222 | Gray-headed Tanager | Eucometis penicillata | Ш | Ь | 1 | | | | |
| 223 | Black-throated Shrike Tanager | Lanio aurantius | Ц | Ь | 14 | | N | C | > |
| 224 | Red-crowned Ant-Tanager | Habia rubica | Ш | Ь | 12 | | С | C | > |
| 225 | Red-throated Ant-Tanager | Habia fuscicauda | ^ | Ь | 39 | | C | С | 7 |
| 226 | | Piranga flava | С | Ь | 4 | | | | |
| 227 | Summer Tanager | Piranga rubra | С | M | 12 | | N | U | 7 |
| 228 | Scarlet Tanager | Piranga olivacea | С | T | 1 | | | | |
| 229 | Crimson-collared Tanager | Ramphocelus sanguinolentus | F | Р | 8 | | R | R | Y |
| 230 | | Ramphocelus passerinii | С | Р | 1 | | | | |
| 231 | Blue-gray Tanager | Thraupis episcopus | ^ | Р | 7 | | | | |
| 232 | Yellow-winged Tanager | Thraupis abbas | С | Р | 3 | | U | | 7 |
| 233 | _ | Euphonia affinis | U | Р | 1 | | | | |
| 234 | Yellow-throated Euphonia | Euphonia hirundinacea | С | Р | 4 | | U | × | ^ |
| 235 | | Euphonia gouldi | С | Р | 15 | | R | | ^ |
| 236 | Golden-hooded Tanager | Tangara larvata | Ь | Р | 1 | | R | R | 7 |
| 237 | Green Honeycreeper | Chlorophanes spiza | Ш | Ь | 0 | | × | | > |
| 238 | Red-legged Honeycreeper | Cyanerpes cyaneus | C | Ь | 14 | | N | C | > |
| 239 | | Volatinia jacarina | \ | Ь | 1 | | | | |
| 240 | Variable Seedeater | Sporophila americana | ^ | Р | 14 | | | | |
| 241 | White-collared Seedeater | Sporophila torqueola | > | Р | 5 | | | | |
| 242 | Thick-billed Seed-Finch | Oryzoborus funereus | C | Р | 2 | | | | |
| 243 | Yellow-faced Grassquit | Tiaris olivacea | C | Р | 1 | | | | |
| 244 | Orange-billed Sparrow | Arremon aurantiirostris | O | Ь | 3 | | | U | > |
| 245 | Green-backed Sparrow | Aremonops chloronotus | C | Р | 3 | | | | > |

| | | | | 2013 | | | 1987 | | |
|-----|----------------------------|----------------------------|------------------------|--------------------------|------------------------------------|--------|--|-----------------------------|----------------------|
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| 246 | Rusty Sparow | Aimophila rufescens | O | Ь | _ | | | | |
| 247 | Chipping Sparrow | Spizella passerina | O | Ь | 1 | | | | |
| 248 | Grayish Saltator | Saltator coerulescens | O | Ь | 2 | | | | |
| 249 | Buff-throated Saltator | Saltator maximus | С | Ь | 5 | | | | ^ |
| 250 | Black-headed Saltator | Saltator atriceps | O | Ь | 15 | | | 2 | ~ |
| 251 | Black-faced Grosbeak | Caryothraustes poliogaster | С | Ь | 15 | | С | С | \wedge |
| 252 | Rose-breasted Grosbeak | Pheucticus Iudovicianus | N | M | 1 | | | | |
| 253 | Blue-black Grosbeak | Cyanocompsa cyanoides | С | Ь | 10 | | С | С | \wedge |
| 254 | Blue Grosbeak | Passerina caerulea | Ь | M | 7 | | | | \wedge |
| 255 | Indigo Bunting | Passerina cyanea | С | W | 1 | | R | | \wedge |
| 256 | Painted Bunting | Passerina ciris | 0 | M | 1 | | | | |
| 257 | Melodious Blackbird | Dives dives | ^ | Р | 16 | N | × | | \wedge |
| 258 | Great-tailed Grackle | Quiscalus mexicanus | ^ | Р | 2 | | | | |
| 259 | Bronzed Cowbird | Molothrus aeneus | | Р | 12 | | | | |
| 260 | Giant Cowbird | Molothrus oryzivorus | U | Р | 4 | | | | |
| 261 | Black-cowled Oriole | lcterus prosthemelas | С | Р | 11 | | N | | \wedge |
| 262 | Orchard Oriole | Icterus spurius | С | M | 3 | | | | |
| 263 | Baltimore Oriole | Icterus galbula | С | M | 5 | | | | |
| 264 | Audubon's Oriole*** | lcterus graduacauda | | | 0 | | | | \wedge |
| 265 | Yellow-billed Cacique | Amblycercus holosericeus | С | Р | 3 | | | | V |
| 266 | Chestnut-headed Oropendola | Psarocolius wagleri | | Р | 54 | | C | | V |
| 267 | Montezuma Oropendola | Psarocolius montezuma | ^ | Р | 1 | O | U | | V |
| - | | | | Total ind. | 1630 | | | Total spp. | 184 |

[†]based on Jones and Vallely, 2001 * Quebrada de Oro valley in Bladen Nature Reserve

^{**} Game species
*** Species ID contested by 2013 expedition team