Christmas counts of birds in Trinidad 1969-1975 and 1981-1983

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INTRODUCTION

The results of ten "Christmas Counts" during the periods 1969-1983 are here presented and analyzed. Christmas Counts of birds are routinely made in many parts of North America under the auspices of the National Audubon Society. Starting with 27 observers on Christmas Day 1900, the counts now involve many thousands of cooperators, and the idea has spread beyond the boundaries of U.S.A. into Canada, Latin America and the West Indies.

The counts here described were first held under the auspices of the Florida Audubon Society as part of an initial attempt to incorporate regular Christmas Counts into the programme of cooperators in neotropical countries. The results were published in a journal called "Pan American Naturalist". This arrangement was soon terminated, so I carried on up to 1975 for my own interest. Since 1976 counts have continued and have been published in "American Birds", an official publication of the National Audubon Society, but there has been no comparative analysis of the figures to date.

I here present the results of ten years' counts, these being the years when I myself attended and organised the studies. During the five intermediate years 1976 – 1980 counts were made, but by very variable numbers of observers, and occasionally in a slightly different area. As I feel unable to evaluate these five counts objectively, I have omitted them from this study.

METHODS

These Christmas Counts follow the rules laid down internationally for all participants under the National Audubon Society's jurisdiction. One area, forming a circle with diameter of 15 miles, is studied each year at about Christmas time. On a single chosen calendar day within the period, from midnight to midnight, all the birds found within the area are recorded. The number of participating observers is unlimited, and they may be divided into different groups, provided the same birds are not counted by more than one group. All the species that are recognised are recorded, along with the numbers of individuals. Although complete accuracy is the aim, in the case of large flocks of birds a reasonable estimate of numbers is allowed.

The circle chosen in Trinidad had its centre at Arouca (Fig. 1). Thus the places covered included the Arima Valley north to the watershed up to Las Lapas Trace, La Laja road, the western portion of Waller Field, Piarco, St Augustine and the eastern

portion of Caroni Swamp, including the bird sanctuary. In practice the group concentrated on Las Lapas, the Asa Wright Nature Centre, La Laja, Waller Pield and the Caroni Swamp with adjoining marshes.

In 1981-1982 less time was spent on the above areas in order to allow the inclusion of the Government Stock Farm in north Waller Field, St Raphael and the western section of the Arena Forest, and Las Lomas.

In all cases the time spent observing approximated to twelve hours, roughly 0600 to 1800, and the weather was usually fine, allowing maximum observation. However, there were sometimes showers, and in two cases, 1971 and 1982, a great deal of light rain fell, inhibiting the course of observation.

In every case but two the observers worked in one single party, varying from three to six in number, but in 1981 and 1983 thirteen and 27 observers formed two parties, one in the Northern Range and one in the plains, and were thus able to spend longer in their respective areas. However, no birds were counted outside the originally chosen circle.

RESULTS AND DISCUSSION

Table 1 summarises the counts by years, giving total figures. Table 2 lists all 201 species recorded during the ten counts, and gives totals of individuals in each species year by year.

Table 2 indicates roughly those species that are usually abundant or commonly seen in the count area. Of the 201 species 52 were recorded in each count, ranging from the Scarlet Ibis whose numbers always topped 1000 to the Yellow-bellied Elaenia whose numbers ranged from 1 to 7. All of these 52 species (and several others that were recorded in nine out of ten counts) can be considered "common" in the sense that one can expect to see them on any outing. However, a bird like the Osprey may be invariably present without being common, since because of limited habitat and territory size it is never likely to be present in large numbers. So the list may be useful, especially to beginners, since it gives some idea of those species with are likely to be seen (or heard).

The figures also reflect some significant changes. In the period 1981-1983, when north Waller Field, San Raphael and Las Lomas were included for the first time, species such as the Southern Lapwing, Savannah Hawk and Yellow-rumped Cacique were recorded, all of them absent before. In addition, Wattled Jacana and Orange-winged Parrot numbers reflect these added habitats, and White-headed Marsh-Tyrants were now seen in much greater numbers. On the converse side, Common Potoos were no

longer seen, since their favoured habitat was Cacandee, an area no longer covered after 1971.

More significant changes are seen for those species affected by the salt-water infiltration into the savannah and fresh-water marsh east of the Caroni North-South Drain. Though this infiltration predates 1960, its effect has been gradual (and to date continues), killing the fresh-water marsh-plants and creating shallow brackish lagoons, fringed or covered with mangrove saplings. This development has no doubt been at least partly instrumental in causing the notable desertion of the Bird Sanctuary roost-site by several heron species, including the Great Egret, Snowy Egret, Cattle Egret, Little Blue Heron and Tricolored Heron. All these species now roost much further east, nearer to the highway. The significant fall in numbers observed on the counts may not neccessarily imply that these birds have diminished; it may merely indicate a change to a new roost-site, less accessible to observation. The Yellow-throated Spinetail, another fresh-water marshbird, has similarly been driven east.

However, the above development has converted areas, hitherto covered by marsh-plants, to open brackish lagoons, where increased numbers of Pied-billed Grebes and Common Gallinules are now to be found.

Certain gregarious species show striking increases in numbers for some years, apparently without cause. These include the Black Vulture and three icterids, the Shiny Cowbird, Carib Grackle and Yellow-hooded Blackbird. These sudden, and not sustained, increases may simply be ascribed to the chance observation of large flocks on certain days.

Some species, however, do seem genuinely to have increased in numbers. Among these, the Ornate Hawk-Eagle has been more in evidence over the Northern Range in later years. Once its call can be recognized it is likely that an observer will record this species on any single day's outing in the hills; 15 to 20 years ago this could not be said. At Springhill the Oilbird population has steadily increased, in spite of occasional setbacks, under the influence of protection afforded by the Nature Centre. My own feeling is that a number of 150 is probably saturation point, given the size of the appropriate habitat, and that an occasional exodus of 30 or so subadult birds must take place from time to time; which could account for the fluctuations over 100. I have to admit to being puzzled by the sudden appearance of the migrant Barn Swallow on the list from 1974 onwards. What seems odd is that it was not noticed during 1969-1973. But the species

does thrive on aerial insects that associate with cattle pastures, so it is not too surprising to find them common on the Waller Field stock farm.

Finally, significant decreases can be seen in Scarlet Ibis and Ruddy-breasted Seedeater. The former has changed its dispersal habits considerably since the late 1960's, and it is also a difficult bird to count, always seeming to be more numerous than it really is, possibly because of the sheer spectacle it affords when in large flocks. My personal view is that its numbers have been adversely affected, though not seriously, by the failure of Government to manage the tourist traffic on a proper basis. The same authorities are also indirectly responsible for the notable disappearance of the once-common Ruddy-breasted Seedeater. Owing to the gradual destruction by trapping of several other finch species — a practice that the Government has done nothing to reduce — trappers have recently turned to this seedeater, hitherto considered too small to bother with, so that now it too will follow its congeners into oblivion within a decade or two.

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Postscript

Dare I hope that some members of the Trinidad and Tobago Field Naturalists' Club may be influenced by the above report to lend their energies towards future counts, so that the areas covered may be more thoroughly studied, and thus enable a regular monitoring system of a least one part of Trinidad to be established?

TABLE 1
Summary of Christmas Count data, Trinidad, 1969-1975, and 1981-1983.

| Year | Observers | Parties | Species | Individuals | Remarks |
|------|-----------|---------|---------|-------------|---|
| 1969 | 4 | 1 | 117 | 5176 | Fine; edge of Waller Field only |
| 1970 | 6 | 1 | 108 | 9958 | Few showers; included Cacandee and Centeno |
| 1971 | 5 | 1 | 113 | 13249 | Drizzle for half the day |
| 1972 | 6 | 1 | 110 | 12255 | 2 hours rain midday. No. 9 Drain instead of |
| | | | | | Cacandee |

| 1973 | 5 | 1 | 116 | 9925 | Fine | | | | |
|------|----|---|---------|---------|--|--|--|--|--|
| 1974 | 5 | 1 | 116 | 7065 | Fine | | | | |
| 1975 | 3 | 1 | 112 | 11759 | Mostly fine; rain at Las Lapas | | | | |
| | | | | | | | | | |
| | | 4 | * * * * | * * * * | * * * * | | | | |
| | | | | | | | | | |
| 1981 | 13 | 2 | 135 | 8380 | Fine; area included Las Lomas, Arena Forest, | | | | |
| | | | | | N. Waller Field. | | | | |
| | _ | | | | | | | | |
| 1982 | 3 | 1 | 125 | 6500 | Showery | | | | |
| 1983 | 27 | 2 | 148 | 5815 | Mostly fine | | | | |
| | | | | | | | | | |

TABLE 2 Species and individuals recorded on Christmas Counts 1969 - 1975 & 1981 - 1983

| Species | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1981 | 1982 | 1983 |
|----------------------------|------|------|------|------|------|------|------|------|------|------|
| Little Tinamou | 1 | 1 | 6 | 2 | | 2 | 1 | 4 | 2 | 5 |
| Pied-billed Grebe | | 2 | 2 | | 4 | 4 | | 12 | 10 | 6 |
| Anhinga | 1 | | 1 | | | | 1 | 1 | 2 | 2 |
| Magnificent Frigatebird | | 1 | 1 | | | | | 10 | 1 | |
| White-necked Heron | 1 | 1 | 1 | 1 | | | | | | |
| Great Egret | 28 | 38 | 48 | 68 | 120 | 70 | 20 | 13 | 8 | 13 |
| Snowy Egret | 14 | | 56 | 12 | 70 | 122 | 1 | 4 | 3 | 1 |
| Little Blue Heron | 212 | 113 | 123 | 70 | 118 | 21 | 18 | 23 | 86 | 22 |
| Tricolored Heron | 376 | 147 | 370 | 128 | 353 | 160 | 54 | 32 | 38 | 7 |
| Striated Heron | 3 | 2 | 8 | 2 | 2 | | 2 | 4 | 1 | 2 |
| Cattle Egret | 1120 | 6982 | 5938 | 6700 | 4100 | 2500 | 5200 | 714 | 795 | 280 |
| Black-crowned Night-Heron | | 1 | | | | | 12 | | | |
| Yellow-crowned Night-Heron | 9 | | 4 | 11 | | 1 | | 3 | | 1 |
| Boat-billed Heron | | | | | | | | | | |
| Scarlet Ibis | 1500 | 1446 | 4992 | 4162 | 3800 | 3248 | 5601 | 5000 | 3500 | 3500 |
| Black-bellied Tree-Duck | | | | | | | | 2 | | |
| American Wigeon | 8 | | | | | 1 | | | 2 | |
| Blue-winged Teal | 89 | | | 7 | 70 | | | 20 | 1 | |
| King Vulture | 1 | | | | | | | | | |
| Black Vulture | 46 | 77 | 127 | 59 | 165 | 123 | 73 | 1133 | 181 | 701 |
| Turkey Vulture | 3 | 2 | 6 | 3 | 3 | 5 | 7 | 7 | 7 | 19 |
| Gray-headed Kite | | | | | | | | 1 | | |
| Double-toothed Kite | | 3 | | | | | | | | |
| Short-tailed Hawk | 1 | | 2 | 1 | 1 | 2 | 1 | | | |
| Gray Hawk | | 1 | | 1 | | 2 | | | 1 | 1 |
| White Hawk | | 2 | | 1 | | 1 | | 2 | | |
| Savanna Hawk | | | | | | | | 5 | 6 | 4 |
| Common Black Hawk | 1 | 2 | | 9 | 1 | 2 | 2 | 4 | 2 | 4 |
| Great Black Hawk | | 1 | | | | | | | | |
| Ornate Hawk-Eagle | | | | | | | | 1 | 4 | |
| Long-winged Harrier | | 1 | | | | | | | | |
| Osprey | 2 | 4 | 2 | 5 | 5 | 5 | 5 | 2 | 6 | 8 |
| | | | | | | | | | | |

| Species | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1981 | 1982 | 1983 |
|----------------------------|------|------|------|------|------|------|------|------|------|------|
| Yellow-headed Caracara | | | | | | | 1 | | | |
| Peregrine | 1 | | | | | | | | | |
| Bat Falcon | | 3 | | | | 4 | | | 1 | 3 |
| Merlin | 1 | 1 | 1 | 2 | | 1 | 1 | | 1 | 2 |
| Gray-breasted Crake | | | | | | | | | | 1 |
| Clapper Rail | 4 | 2 | | 2 | 1 | | 1 | 2 | 2 | 2 |
| Gray-necked Wood-Rail | | 2 | | | | | | | | |
| Common Gallinule | 4 | 4 | 12 | | 2 | 11 | 4 | 49 | 55 | 38 |
| Purple Gallinule | 1 | 1 | | | 6 | 2 | 2 | | | 4 |
| Wattled Jacana | 8 | 31 | 21 | 2 | 6 | 6 | 8 | 38 | 59 | 49 |
| Southern Lapwing | | | | | | | | 24 | 15 | 19 |
| Black-bellied Plover | 7 | | | 10 | | | | | | 22 |
| Solitary Sandpiper | | | 1 | | 6 | 1 | 2 | 3 | 3 | 5 |
| Lesser Yellowlegs | 10 | 79 | | 49 | 5 | | 6 | 8 | 1 | 9 |
| Greater Yellowlegs | 4 | | | | 1 | | 11 | | 7 | 3 |
| Spotted Sandpiper | 21 | 30 | 58 | 30 | 71 | 14 | 35 | 30 | 20 | 41 |
| Willet | | | | | | 2 | | | | 6 |
| Least Sandpiper | | | | | | | | 4 | | 17 |
| Pectoral Sandpiper | | | | | | | | | 5 | 6 |
| Semipalmated Sandpiper | | | | | | | | 40 | 1 | 2 |
| Common Snipe | | | | | | | | 1 | 1 | |
| Short-billed Dowitcher | | | | | | | | | | 1 |
| Scaled Pigeon | 1 | | 3 | 1 | | 1 | 1 | 5 | 12 | 22 |
| Pale-vented Pigeon | | | 1 | | | | 1 | | | |
| Eared Dove | 7 | 5 | 21 | 2 | | 2 | 1 | 8 | 4 | 2 |
| Common Ground-Dove | | | | 5 | | | | 7 | 4 | 4 |
| Plain-breasted Ground-Dove | | 2 | 1 | | 22 | 2 | | | | |
| Ruddy Ground-Dove | 21 | 25 | 34 | 29 | 28 | 46 | 13 | 56 | 58 | 36 |
| White-tipped Dove | | 1 | | | 4 | | | 1 | 2 | 2 |
| Gray-fronted Dove | 2 | 2 | 1 | 2 | | 2 | 2 | 7 | 1 | 1 |
| Green-rumped Parrotlet | | 6 | | | 3 | 3 | 1 | 33 | 2 | 30 |
| Lilac-tailed Parrotlet | | 14 | 4 | 14 | 1 | 1 | 1 | 12 | 4 | |
| Blue-headed Parrot | | | | | 1 | | | 10 | 6 | 10 |
| Orange-winged Parrot | | 16 | | 8 | 4 | 2 | 2 | 21 | 75 | 29 |
| Mangrove Cuckoo | | | | | 1 | | | | 1 | 1 |
| Squirrel Cuckoo | | | | | | | 2 | 1 | | 2 |
| Greater Ani | | | 6 | 1 | | 2 | 1 | | | |
| Smooth-billed Ani | 45 | 70 | 29 | 39 | 27 | 36 | 21 | 35 | 35 | 18 |
| Striped Cuckoo | | | | 3 | | 2 | 4 | 6 | | |
| Barn Owl | | | 1 | | | | | | | 1 |
| Ferruginous Pygmy-Owl | 4 | 2 | 1 | 5 | | 2 | 1 | 8 | 4 | 5 |
| Oilbird | 36 | 37 | 43 | 43 | 49 | 64 | 74 | 123 | 105 | 50 |
| Common Potoo | 4 | 7 | 4 | | | | 1 | | | |
| Semicollared Nighthawk | | | | | | | | | 1 | |
| Pauraque | | | | | | | | | | 1 |
| White-tailed Nightjar | | | 1 | | | | | | | |
| White-collared Swift | 1 | | | | | | | | | |
| Chestnut-collared Swift | | | | | 1 | | | | | |
| Gray-rumped Swift | 100 | 31 | 26 | 10 | 50 | 17 | 56 | | 30 | 12 |

| Maniform Maniform | Species | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1981 | 1982 | 1983 | |
|---|--|-----------------|------|------|------|------|------|------|------|------|------|--|
| Rufous-breasted Hermit | Band-rumped Swift | 29 | 2 | 2 | 7 | 2 | 6 | 5 | | | 10 | |
| Rotous-breasted Hermit | Short-tailed Swift | 45 | 9 | 32 | 32 | 58 | 6 | 45 | 3 | 6 | 21 | |
| Circle Hermit | Lesser Swallow-tailed Swift | | | | | 1 | 2 | | | | 1 | |
| Little Hermit 1 | Rufous-breasted Hermit | 1 | 6 | 2 | 3 | | 4 | 4 | 3 | 4 | 9 | |
| Milte-necked Jacobin | Green Hermit | 2 | 7 | 9 | 18 | 6 | 6 | 7 | 4 | 4 | 3 | |
| Second Notice 1 | Little Hermit | 1 | | | 2 | 1 | 1 | 1 | 5 | 4 | 5 | |
| Black-throated Mango | White-necked Jacobin | | | 1 | | 1 | | | | | 1 | |
| Black-throated Mango | Brown Violetear | | | 1 | 4 | 4 | | 1 | | | | |
| Ruby Topase | Green-throated Mango | | | | 1 | | | | | | | |
| Turtled Coquette | Black-throated Mango | 2 | 5 | 6 | 10 | 14 | 4 | 2 | 4 | 2 | 2 | |
| Turtled Coquette | Ruby Topaz | | | | 1 | 3 | 1 | 1 | 1 | | 1 | |
| White-chested Emerald | | | 1 | | | | 2 | | 1 | 1 | 1 | |
| Copper-rumped Hummingbird 8 | Blue-chinned Sapphire | 1 | 4 | 1 | 4 | 4 | 3 | 2 | 3 | | 4 | |
| Cong-billed Starthroat | White-chested Emerald | 6 | 5 | 3 | 5 | 2 | 3 | | 12 | 1 | 5 | |
| Milte-tailed Trogon | Copper-rumped Hummingbird | 8 | 10 | 7 | 6 | 6 | 8 | 10 | 9 | 4 | 9 | |
| Collared Trogon 1 | Long-billed Starthroat | | | | | | | | 1 | | 1 | |
| Note | White-tailed Trogon | | | | 3 | | | | 1 | 1 | 2 | |
| Pygny Kingfisher 1 1 1 1 1 1 1 1 1 | Collared Trogon | 1 | | | | | | | 5 | | 1 | |
| Pigmy Kingfisher 1 | Violaceous Trogon | 1 | | 1 | | 1 | 3 | | 3 | | 3 | |
| Blue-crowned Motmot 1 | Belted Kingfisher | 1 | | | | | | | | | | |
| Rufous-tailed Jacamar | Pygmy Kingfisher | | | | | | | | | 1 | | |
| Channel-billed Toucan 11 5 8 13 6 5 13 9 17 12 Golden-olive Woodpecker 3 3 1 3 2 4 3 6 4 3 Chestnut Woodpecker 1 | Blue-crowned Motmot | | | 1 | | | | 1 | 2 | 1 | 2 | |
| Colden-olive Woodpecker | Rufous-tailed Jacamar | | | | | 1 | 2 | | | | | |
| Chestnut Woodpecker | Channel-billed Toucan | 11 | 5 | 8 | 13 | 6 | 5 | 13 | 9 | 17 | 12 | |
| Lineated Woodpecker 1 | Golden-olive Woodpecker | 3 | 3 | 1 | 3 | 2 | 4 | 3 | 6 | 4 | 3 | |
| Red-rumped woodpecker 1 | Chestnut Woodpecker | 1 | | | | 2 | 1 | | 2 | | 2 | |
| Crimson-crested Woodpecker 1 Plain-brown Woodcreeper 1 1 2 1 2 1 Buff-throated Woodcreeper 1 1 1 1 2 1 1 2 2 Pale-breasted Spinetail 2 2 2 1 2 6 4 1 Stripe-breasted Spinetail 1 2 8 8 8 1 1 2 4 4 4 6 2 8 8 8 1 1 2 1 1 2 3 3 3 2 2 2 3 3 3 2 2 2 3 2 2 2 3 3 2 2 3 3 2 | Lineated Woodpecker | | | 1 | 1 | 1 | | | 3 | | 2 | |
| Plain-brown Woodcreeper | Red-rumped woodpecker | 1 | | | | | 1 | | | | 1 | |
| Bütf-throated Woodcreeper 1 1 1 1 2 1 1 2 2 Pale-breasted Spinetail 2 2 1 2 6 4 1 Stripe-breasted Spinetail 1 2 8 8 8 1 1 1 1 1 1 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 2 2 2 3 3 3 2 2 2 3 3 2 2 2 3 3 2 2 2 3 3 2 2 3 3 3 2 | Crimson-crested Woodpecker | 1 | | | | | | | | | | |
| Pale-breasted Spinetail 2 2 1 2 6 4 1 Stripe-breasted Spinetail 16 10 10 7 4 4 4 6 2 8 Streaked Xenops 1 1 1 1 1 2 3 3 Great Antshrike 2 4 1 1 1 2 3 3 Black-crested Antshrike 1 5 3 5 3 5 6 12 4 4 Plain Antvireo 1 5 3 5 6 12 4 4 White-bellied Antwren 4 1 2 1 2 1 3 2 2 1 3 Black-faced Antthrush 4 3 3 2 2 1 1 3 4 4 Black-tailed Tityra 1 5 1 5 3 1 1 Bearded | Plain-brown Woodcreeper | | 1 | | | 2 | | | 1 | 2 | 1 | |
| Stripe-breasted Spinetail 1 1 1 1 Yellow-throated Spinetail 16 10 10 7 4 4 4 6 2 8 Streaked Xenops 1 1 1 1 1 2 3 3 Great Antshrike 2 4 1 1 2 3 3 Black-crested Antshrike 1 5 3 5 6 12 4 4 Barred Antshrike 1 5 3 5 6 12 4 4 Plain Antvireo 1 | Buff-throated Woodcreeper | 1 | 1 | 1 | | 1 | 2 | 1 | 1 | 2 | 2 | |
| Yellow-throated Spinetail 16 10 10 7 4 4 4 6 2 8 Streaked Xenops 1 1 1 1 2 3 3 Great Antshrike 2 4 1 1 1 2 3 3 Black-crested Antshrike 1 5 3 5 3 5 6 12 4 4 Plain Antvireo 1 5 3 5 3 5 6 12 4 4 White-flanked Antwren 4 1 2 1 2 1 3 2 2 6 Black-faced Antthrush 4 3 3 2 1 3 4 4 Bright-rumped Attila 1 5 5 5 1 3 4 4 Bearded Bellbird 7 12 10 6 13 10 1 8 5 6 | Pale-breasted Spinetail | | 2 | | 2 | | 1 | 2 | 6 | 4 | 1 | |
| Streaked Xenops 1 1 1 1 2 3 3 Great Antshrike 2 4 1 1 2 3 3 Black-crested Antshrike 1 5 3 5 3 6 12 4 4 Plain Antvireo | Stripe-breasted Spinetail | | | 1 | | | 1 | | 1 | | | |
| Great Antshrike 2 4 1 1 2 3 3 Black-crested Antshrike 1 5 3 5 3 2 2 2 2 3 2 Barred Antshrike 1 5 3 5 3 5 6 12 4 4 Plain Antvireo White-flanked Antwren 4 1 1 1 3 White-bellied Antbird 2 2 1 2 1 3 2 2 6 Black-faced Antthrush 4 3 3 2 2 1 1 3 4 4 Bright-rumped Attila 1 5 5 3 1 Bearded Bellbird 7 12 10 6 13 10 1 8 5 6 Golden-headed Manakin 12 7 8 9 3 2 8< | Yellow-throated Spinetail | 16 | 10 | 10 | 7 | 4 | 4 | 4. | 6 | 2 | 8 | |
| Black-crested Antshrike 1 3 2 2 2 3 2 Barred Antshrike 1 5 3 5 3 5 6 12 4 4 Plain Antvireo " The Plain Antwireo " The Plain Antwireo <td cols<="" td=""><td>Streaked Xenops</td><td></td><td></td><td></td><td></td><td>1</td><td>1</td><td></td><td></td><td></td><td></td></td> | <td>Streaked Xenops</td> <td></td> <td></td> <td></td> <td></td> <td>1</td> <td>1</td> <td></td> <td></td> <td></td> <td></td> | Streaked Xenops | | | | | 1 | 1 | | | | |
| Barred Antshrike 1 5 3 5 3 5 6 12 4 4 Plain Antvireo White-flanked Antwren 4 1 1 1 3 2 3 White-bellied Antbird 2 2 1 2 1 3 2 2 6 Black-faced Antthrush 4 3 3 2 2 1 1 3 4 4 Bright-rumped Attila 5 5 3 2 2 1 Bearded Bellbird 7 12 10 6 13 10 1 8 5 6 Golden-headed Manakin 12 7 8 9 3 2 8 5 19 White-bearded Manakin 8 8 1 10 6 2 10 5 20 | Great Antshrike | 2 | | 4 | | 1 | | 1 | 2 | 3 | 3 | |
| Plain Antvireo 1 White-flanked Antwren 4 1 3 White-bellied Antbird 2 2 1 2 1 3 2 6 Black-faced Antthrush 4 3 3 2 2 1 1 3 4 4 4 Bright-rumped Attila 2 2 2 1 1 3 4 5 4 4 4 4 5 1 5 1 1 5 1 1 5 1 1 6 1 3 1 | Black-crested Antshrike | | | | 1 | 3 | 2 | 2 | 2 | 3 | 2 | |
| White-flanked Antwren 4 1 3 White-bellied Antbird 2 2 1 2 1 3 2 6 Black-faced Antthrush 4 3 3 2 2 1 1 3 4 4 Bright-rumped Attila 2 2 2 1 1 3 4 4 Black-tailed Tityra 1 5 3 1 1 3 1 1 1 1 1 8 5 6 6 6 13 10 1 8 5 6 6 6 1 1 8 5 19 9 3 2 8 5 19 9 3 2 8 5 19 9 3 2 8 5 19 9 3 2 10 5 20 2 10 5 20 2 10 5 20 2 10 5 20 2 10 5 20 2 10 5 2 10 <td>Barred Antshrike</td> <td>1</td> <td>5</td> <td>3</td> <td>5</td> <td>3</td> <td>5</td> <td>6</td> <td>12</td> <td>4</td> <td>4</td> | Barred Antshrike | 1 | 5 | 3 | 5 | 3 | 5 | 6 | 12 | 4 | 4 | |
| White-bellied Antbird 2 2 1 2 1 3 2 6 Black-faced Antthrush 4 3 3 2 2 1 1 3 4 4 Bright-rumped Attila 2 2 2 1 Black-tailed Tityra 1 5 3 2 2 1 Bearded Bellbird 7 12 10 6 13 10 1 8 5 6 Golden-headed Manakin 12 7 8 9 3 2 8 5 19 White-bearded Manakin 8 8 1 10 6 2 10 5 20 | Plain Antvireo | | | | | | | | 1 | | | |
| Black-faced Antthrush 4 3 3 2 2 1 1 3 4 4 Bright-rumped Attila Black-tailed Tityra 1 5 5 3 1 Bearded Bellbird 7 12 10 6 13 10 1 8 5 6 Golden-headed Manakin 12 7 8 9 3 2 8 5 19 White-bearded Manakin 8 8 1 10 6 2 10 5 20 | White-flanked Antwren | 4 | | | | 1 | | | | | 3 | |
| Bright-rumped Attila 2 2 1 Black-tailed Tityra 1 5 3 1 Bearded Bellbird 7 12 10 6 13 10 1 8 5 6 Golden-headed Manakin 12 7 8 9 3 2 8 5 19 White-bearded Manakin 8 8 1 10 6 2 10 5 20 | White-bellied Antbird | 2 | 2 | 1 | 2 | 1 | | 3 | | 2 | 6 | |
| Black-tailed Tityra 1 5 3 1 Bearded Bellbird 7 12 10 6 13 10 1 8 5 6 Golden-headed Manakin 12 7 8 9 3 2 8 5 19 White-bearded Manakin 8 8 1 10 6 2 10 5 20 | Black-faced Antthrush | 4 | 3 | 3 | 2 | 2 | 1 | 1 | 3 | 4 | 4 | |
| Bearded Bellbird 7 12 10 6 13 10 1 8 5 6 Golden-headed Manakin 12 7 8 9 3 2 8 5 19 White-bearded Manakin 8 8 1 10 6 2 10 5 20 | Bright-rumped Attila | | | | | | | | 2 | 2 | 1 | |
| Golden-headed Manakin 12 7 8 9 3 2 8 5 19 White-bearded Manakin 8 8 1 10 6 2 10 5 20 | Black-tailed Tityra | 1 | | | | 5 | | | 3 | | 1 | |
| White-bearded Manakin 8 8 1 10 6 2 10 5 20 | Bearded Bellbird | 7 | 12 | 10 | 6 | 13 | 10 | 1 | 8 | 5 | 6 | |
| | Golden-headed Manakin | 12 | 7 | 8 | | 9 | 3 | 2 | 8 | 5 | 19 | |
| Fork-tailed Flycatcher 18 | White-bearded Manakin | 8 | 8 | 1 | 10 | 6 | 2 | | 10 | 5 | 20 | |
| | Fork-tailed Flycatcher | | | | | | | | | | 18 | |

| Species | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1981 | 1982 | 1983 |
|-------------------------------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | | |
| Pied Water-Tyrant | 6 | 5 | 10 | 8 | 1 | 2 | 10 | 8 | 12 | 8 |
| White-headed Marsh-Tyrant | 7 | 4 | 3 | 1 | 3 | 1 | 6 | 19 | 16 | 12 |
| Tropical Kingbird | 12 | 12 | 13 | 20 | 15 | 15 | 26 | 22 | 16 | 19 |
| Gray Kingbird | 1 | | | | | | 1 | | | |
| Boat-billed Flycatcher | 3 | 5 | 5 | 5 | 1 | 1 | 1 | 8 | 3 | 6 |
| Streaked Flycatcher | 1 | | 2 | 1 | | 1 | 1 | 2 | 1 | 1 |
| Great Kiskadee | 7 | 4 | 6 | 16 | 18 | 18 | 10 | 21 | 17 | 16 |
| Dusky-capped Flycatcher | 1 | 1 | | | | | | | | |
| Olive-sided Flycatcher | 1 | | | | | | | | | 1 |
| Tropical Pewee | | 4 | 5 | 3 | 2 | 2 | 3 | 1 | | 3 |
| Euler's Flycatcher | | | | | | | | | | 1 |
| Yellow-olive Flycatcher | | | | 2 | | | 1 | | | 1 |
| Yellow-breasted Flycatcher | 3 | 3 | 1 | | 3 | 1 | 1 | 3 | 6 | 2 |
| Yellow-bellied Elaenia | 1 | 3 | 1 | 2 | 4 | 5 | 7 | 6 | 4 | 5 |
| Forest Elaenia | | | | | | | | 2 | | |
| Southern Beardless Tyrannulet | 1 | | 1 | | 2 | 1 | | 1 | | 8 |
| Slaty-capped Flycatcher | 1 | | | | | | | 2 | | |
| Ochre-bellied Flycatcher | | 2 | 3 | 5 | | 2 | | | | 2 |
| White-winged Swallow | | | | | | | | | 1 | |
| Gray-breasted Martin | 11 | 42 | 17 | | 25 | 12 | 3 | 4 | 54 | 5 |
| Rough-winged Swallow | 2 | 1 | | 2 | 3 | | | 2 | 1 | |
| Barn Swallow | | | | | | 17 | 4 | 73 | 115 | 7 |
| Rufous-breasted Wren | 6 | 4 | 6 | 14 | 5 | 10 | 8 | 8 | 8 | 7 |
| House Wren | | 3 | 6 | 14 | 10 | 8 | 8 | 26 | 5 | 7 |
| Tropical Mockingbird | 3 | 24 | 10 | 14 | 14 | 25 | 17 | 26 | 10 | 12 |
| Yellow-legged Thrush | 3 | | | | | | | | 1 | |
| Cocoa Thrush | 4 | 5 | 8 | 10 | 15 | 3 | 1 | 27 | 11 | 8 |
| Bare-eyed Thrush | 1 | 1 | 2 | 2 | 2 | | 1 | 6 | 2 | 2 |
| White-necked Thrush | 2 | | 3 | 2 | 5 | 1 | 1 | 2 | 2 | 7 |
| Long-billed Gnatwren | 4 | 3 | 1 | 3 | 3 | 1 | 2 | 8 | 2 | 5 |
| Rufous-browed Peppershrike | 8 | 9 | 8 | 11 | 15 | 11 | 13 | 11 | 7 | 7 |
| Chivi Vireo | | | | | | | | | | 1 |
| Golden-fronted Greenlet | 9 | 7 | 8 | 7 | 11 | 12 | 1 | 2 | 2 | 12 |
| Shiny Cowbird | 515 | 220 | 2 | 10 | 49 | 15 | 22 | 20 | 52 | 15 |
| Giant Cowbird | | 2 | 5 | | 5 | 2 | | 15 | 3 | 3 |
| Crested Oropendola | 24 | 13 | 44 | 65 | 64 | 16 | 24 | 61 | 59 | 18 |
| Yellow-rumped Cacique | | | | | | | | 17 | 16 | 21 |
| Carib Grackle | 529 | 38 | 77 | 41 | 71 | 50 | 59 | 44 | 640 | 134 |
| Yellow-hooded Blackbird | 27 | 18 | 115 | 8 | 31 | 14 | 2 | 6 | 4 | 7 |
| Yellow Oriole | 1 | 4 | | 6 | 4 | 3 | 2 | 9 | 4 | 3 |
| Red-breasted Blackbird | 6 | 6 | 17 | 3 | 9 | 8 | 5 | 7 | 4 | 5 |
| Black-and-White Warbler | | | | | 2 | 1 | | | | |
| Tropical Parula | 2 | | | 4 | 2 | 2 | 1 | 1 | | |
| Yellow Warbler | 1 | 3 | 3 | 8 | 2 | 6 | 4 | 15 | 2 | 5 |
| Northern Waterthrush | 1 | 1 | 7 | 6 | 4 | 13 | 4 | 6 | 2 | 8 |
| Masked Yellowthreat | | | 1 | | | | 1 | | | |
| American Redstart | 1 | | 2 | 1 | 8 | 2 | 2 | 5 | 2 | 2 |
| Golden-crowned Warbler | 2 | 3 | 3 | 2 | 2 | | | 1 | 1 | 5 |
| | | | | | | | | | | |

| species | 1969 | 1970 | 1971 | 1972 | 1973 | 1974 | 1975 | 1981 | 1982 | 1983 |
|--------------------------|------|------|------|------|------|------|------|------|------|------|
| | | | | | | | | | | |
| Bananaquit | 25 | 71 | 42 | 109 | 88 | 98 | 51 | 41 | 26 | 33 |
| Bicolored Conebill | 1 | 2 | 1 | | | | 1 | 3 | 9 | 3 |
| Purple Honeycreeper | 6 | 4 | 3 | 6 | 8 | 3 | 2 | 16 | 4 | 5 |
| Red-legged Honeycreeper | | 1 | | | | | | | | |
| Green Honeycreeper | 4 | 14 | 7 | 16 | 16 | 1 | 2 | 4 | 2 | 12 |
| Blue Dacnis | 1 | | 6 | 4 | 6 | 1 | 1 | 6 | | 7 |
| Trinidad Euphonia | | | 1 | | | | | | | |
| Violaceous Euphonia | 8 | 7 | 7 | 8 | 1 | 3 | | 12 | 6 | 12 |
| Speckled Tanager | | | | 6 | 2 | 2 | 1 | 2 | 4 | 5 |
| Turquoise Tanager | 1 | | 6 | 14 | 5 | | 7 | 15 | 14 | 16 |
| Bay-headed Tanager | 8 | 15 | 5 | 22 | 14 | 10 | 2 | 26 | 10 | 27 |
| Blue-gray Tanager | 7 | 20 | 20 | 32 | 19 | 7 | 12 | 12 | 22 | 14 |
| Palm Tanager | 2 | 17 | 23 | 23 | 17 | 9 | 24 | 23 | 17 | 24 |
| Silver-beaked Tanager | 4 | 9 | 2 | 10 | 6 | 9 | 5 | 11 | 20 | 12 |
| Hepatic Tanager | | 2 | 1 | | 7 | 3 | | | 5 | 1 |
| Summer Tanager | | | | | | | | | | 1 |
| Red-crowned Ant-Tanager | | | 1 | | | 4 | 2 | | 4 | 2 |
| White-lined Tanager | 9 | 13 | 10 | 11 | 8 | 8 | 15 | 13 | 10 | . 8 |
| White-shouldered Tanager | | | | 1 | 2 | | | 2 | | 1 |
| Grayish Saltator | | 1 | 4 | 9 | 8 | 3 | 1 | 8 | 1 | |
| Dickcissel | 1 | | | | | | | | | |
| Blue-black Grassquit | 10 | 22 | 31 | 37 | 22 | 21 | 6 | 33 | 6 | 6 |
| Yellow-bellied Seedeater | | | 1 | 1 | 1 | | | | | |
| Ruddy-breasted Seedeater | 10 | 8 | 1 | 3. | 14 | 7 | 6 | 4 | | 2 |

