Bird Survey as an indication of environmental integrity in preservation areas
Summary

• Introduction;
• Objective;
• Materials and Methods;
• Results and Discussion; and
• Conclusion.
Introduction

• Bird Survey is already used in Brazil as an efficient environmental quality index.

**Local Bird Surveys (close to Holambra Field Station):**

- Jacutinga, Holambra, Paulínia, Jaguariúna, Santo Antônio de Posse, Mogi Mirim e Itapira - 163 bird species. (BIODINÂMICA, 2006);
- Mata de Santa Genebra, em Campinas - 134 bird species (ALEIXO e VIELLIARD, 1995);
- Fazenda Barreiro Rico, Anhembi/SP - 198 bird species. (ANTUNES, 2007)
Overall Theme: Sustainable Agriculture and Wildlife Conservation

Objective

Assess the possibility of a small farm, with intensive use of agricultural fertilizers and pesticides, maintaining a wildlife conservation area, using Bird Surveys as an environmental index.
Material and Methods

HOLAMBRA FIELD STATION
Material and Methods

Bird Surveys

2003 Aug/2002 - Apr/2003 – 21 days of observation;
2005 Jan - Jun/2005 – 11 days of observation;
2010 Apr - Aug/2010 – 12 days of observation;
Material and Methods

Birds were classified to species level.

The frequency was classified as:

- **0** absent – could not be found in the year of the survey;
- **1** rare – recorded only once;
- **3** not frequent – recorded once to three times;
- **5** frequent – recorded more than three times; and
- **10** very frequent – recorded many times and also in large amount.
Results and discussion

21 orders; 48 families; 173 species.

Source: Santiago, 2013.
Results and discussion

Conclusion

These data demonstrate:

• a trend of increasing diversity and species richness over the years.

• activities of the Agricultural Experimental Field are not impacting the birds and;

• careful maintenance of the conservation area and its surroundings can contribute to the conservation of local biodiversity.
More information...

http://bibliotecadigital.fgv.br/dspace/handle/10438/11472
THANK YOU!!

Lanio cucullatus
Tico-tico-rei

Caracara plancus
Carcará

Amazonetta brasiliensis
Marreca-pé-vermelho

Amazilia fimbriata
Beija-flor-de-garganta-verde

Hydropsalis parvulus
Bacurau-chintã

Cariama cristata
Seriema

Cathartes aura
Urubu-de-cabeça-vermelha

Jacana jacana
Jaçanã

Mycteria americana
Cabeça-seca

Columbina talpocoti
Rolinha-caldo-de-feijão

Megaceryle torquata
Martim-pescador-grande

Guira guira
Anu-branco

Malacoptila striata
Barbudo-rajado

Pardirallus nigricans
Saracura-sanã

Conopophaga lineata
Chupa-dente

Cyanocorax cristatellus
Gralha-do-campo

Celeus flavescens
Pica-pau-galego

Elaenia chiriquensis
Chibum