



Conservation of the Black-and-chestnut Eagle in Ecuador

Ashkia Campbell

Advisor Dr. David McDonald



Ecuador

- ▶ Developing country
- ▶ Predominately Spanish speaking
- ▶ 2008 became first in the world to recognize legally enforceable Rights of Nature
- ▶ One of seventeen ecologically megadiverse countries
- ▶ Ecosystems range from temperate to wet rain forests



My Research

1. A literature search and interdisciplinary meeting on endangered Black-and-chestnut Eagles (*Spizaetus isidori*).
2. Field research on the Golden-winged Manakin (*Masius chrysopterus*)



Black-and-chestnut Eagle (*Spizaetus isidori*)

- ▶ Classified Endangered - 250 individuals
- ▶ Found in western slope of Andes in **cloudforests**
- ▶ Least studied eagles
- ▶ Main food source: Guans and chickens



Why do we care?

- ▶ Both the land and the Eagle can be conserved
- ▶ It resides near ecotourism locations such as Mindo
- ▶ There is only one known nest site in the Tandayapa Valley
- ▶ People are directly killing the Eagle



Habitat Destruction and Human Conflict



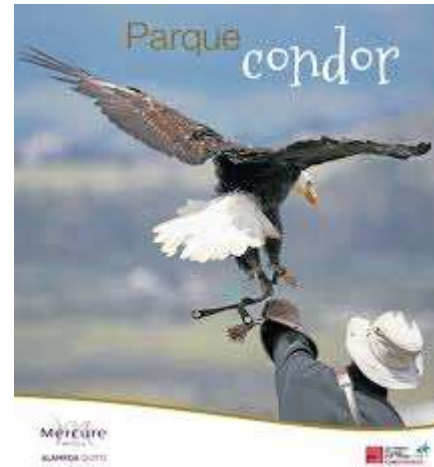
- ▶ Decrease from 43% in 1990 to 39% in 2005
- ▶ Continues to decrease 1.2% per year
- ▶ Food and habitat conflict
- ▶ 57% of residents within 10km of eagle lose ~2 chickens per year
- ▶ Residents kill the eagle when they lose 5 or more chickens per year

Conservation Efforts

- ▶ Educate populace and tourists of the status and conservation
- ▶ Provide alternatives to killing the eagle
- ▶ Create a bilingual mural at Parque Condor, Otovalo
- ▶ Display signage installed by UW students
- ▶ Proposals to conservation organizations

Institutions Involved

- ▶ Mindo Cloud Forest Foundation
- ▶ Parque Condor, Otavalo
- ▶ University of Wyoming
- ▶ Yachay University



Field Research

- ▶ Golden-winged Manakin (*Masius chrysopterus*)
- ▶ Behavioral Research
- ▶ Observation
- ▶ Mist-netting





Ending Comments



Resources

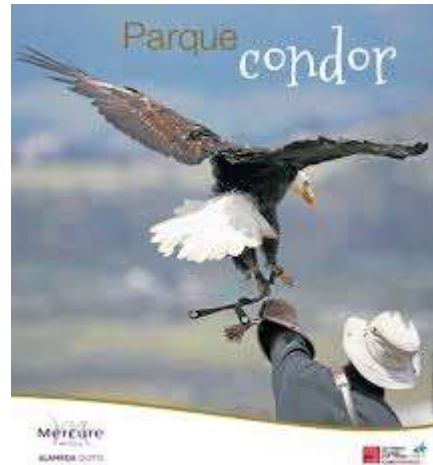
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- ▶ Mosandl, R., Günter, S., Stimm, B., and Weber, M. (2007) Ecuador Suffers the Highest Deforestation Rate in South America. *Ecological Studies*. 198.
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Acknowledgements

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Questions

