

Terrestrial Mammals and Birds

Hypothesis: Birds and Mammals were predominantly introduced, via release and escape pathways.

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Six Pathways of Introduction

Release - Intentional Introduction as a commodity for release.

Escape - Intentional Introduction as a commodity but escaped unintentionally.

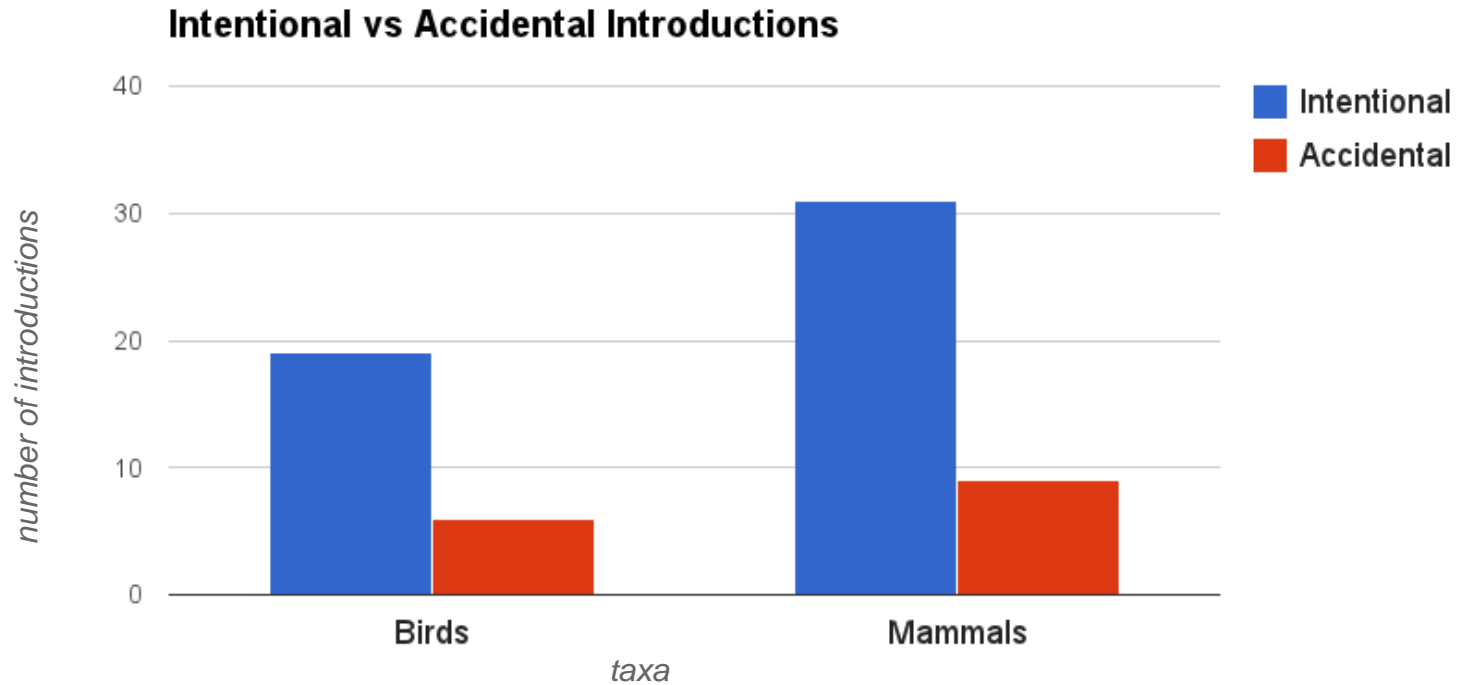
Containment - Unintentionally introduction with a specific commodity.

Stowaway - Unintentionally introduction attached to or within a transport vector.

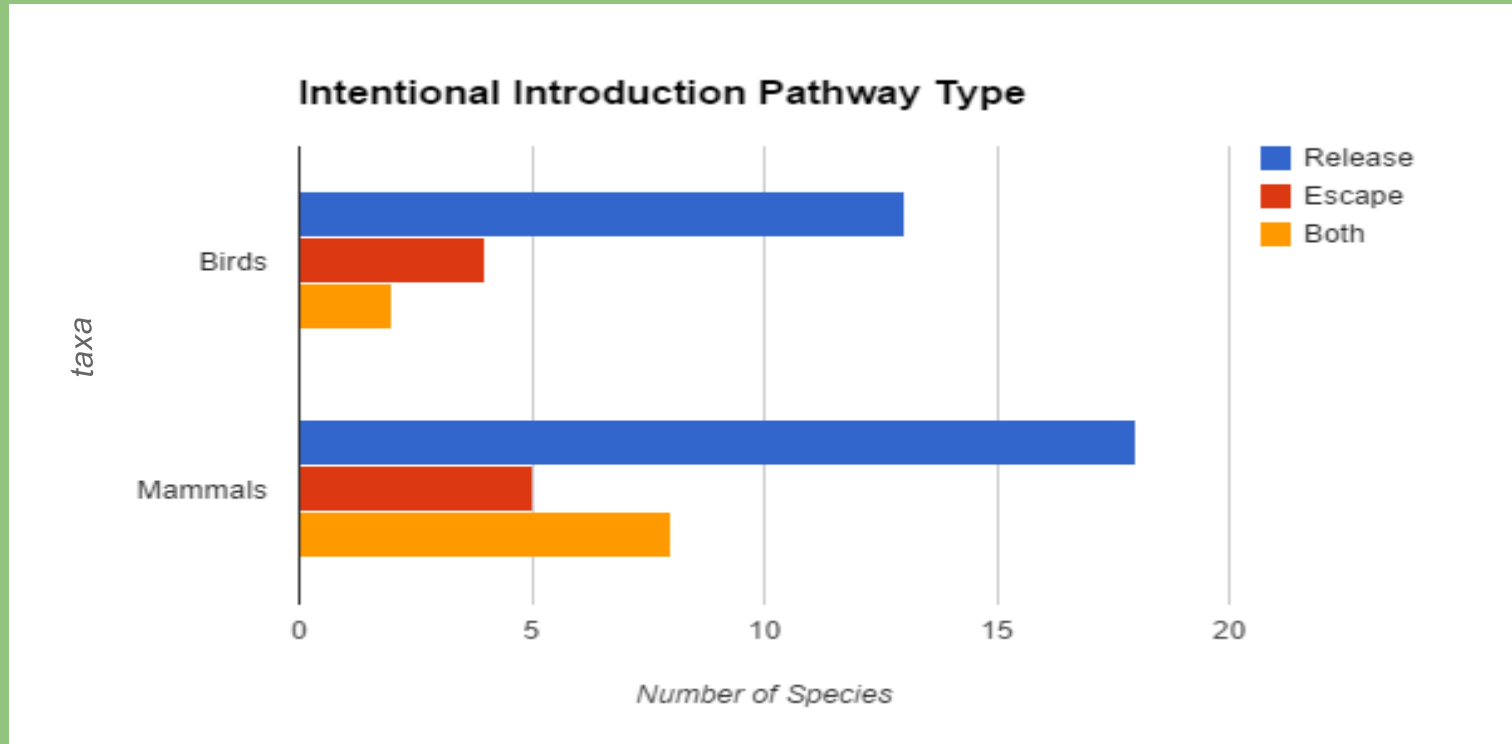
Unaided - Unintentionally introduction through natural dispersal of alien species across political borders.

Corridor - Unintentionally introduction via human infostructures linking previously unconnected regions.

Intentional vs Accidental Introductions



Intentional Introduction Pathways



Birds: intentional introduction

- primary means
 - released as game animals
 - moved as a result pet trade
 - relatively low success
- other significant reasons
 - aesthetics
 - agents of biocontrol



Gluzberg, Yekaterina 15 Oct. 2001

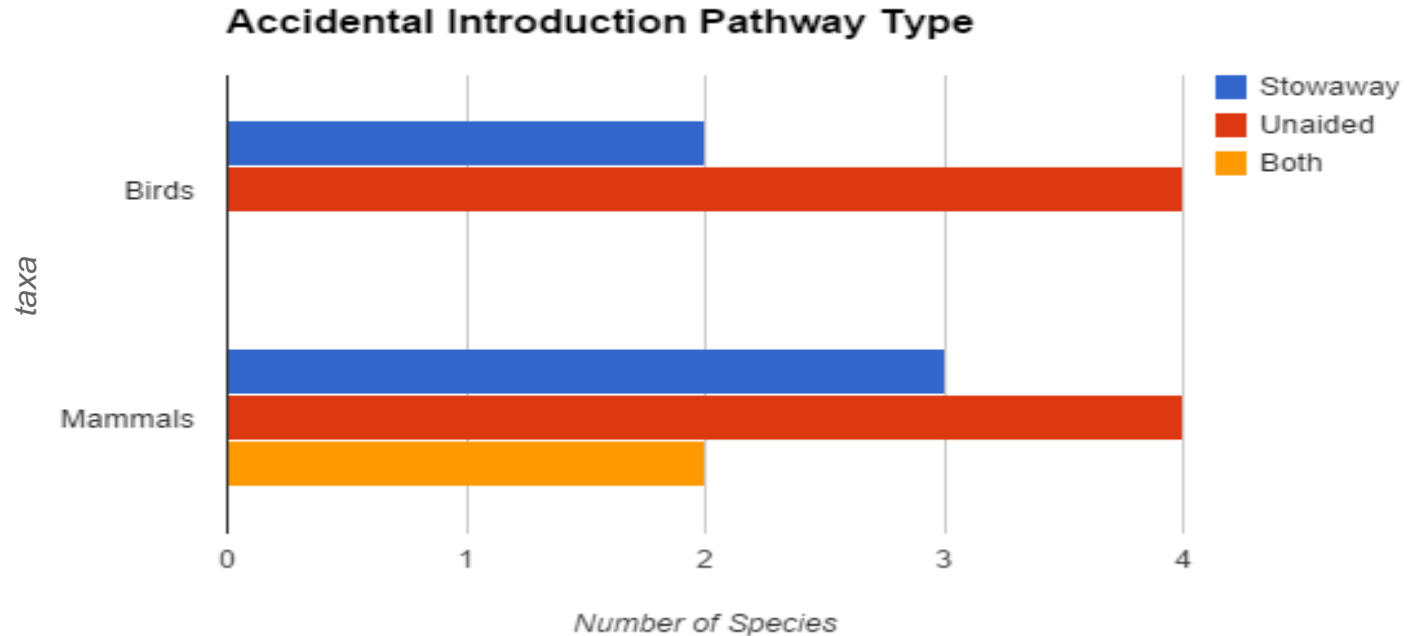
Mammals: intentional introductions

- primary importance
 - human food
 - game animals
- other significant reasons
 - aesthetics
 - draught animals

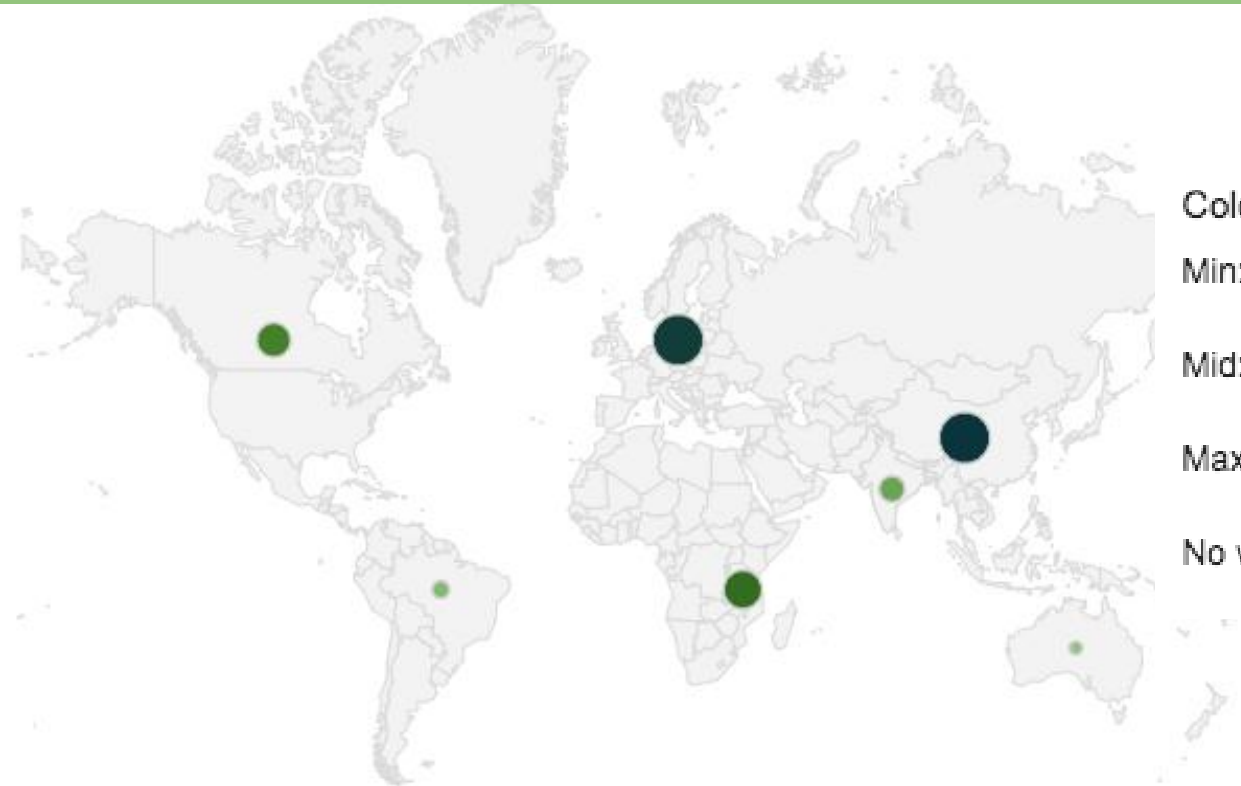


Photograph by Ginny York

Accidental Introduction Pathways

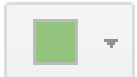


Where are they coming from?

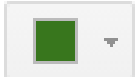


Colors

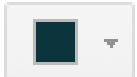
Min:



Mid:



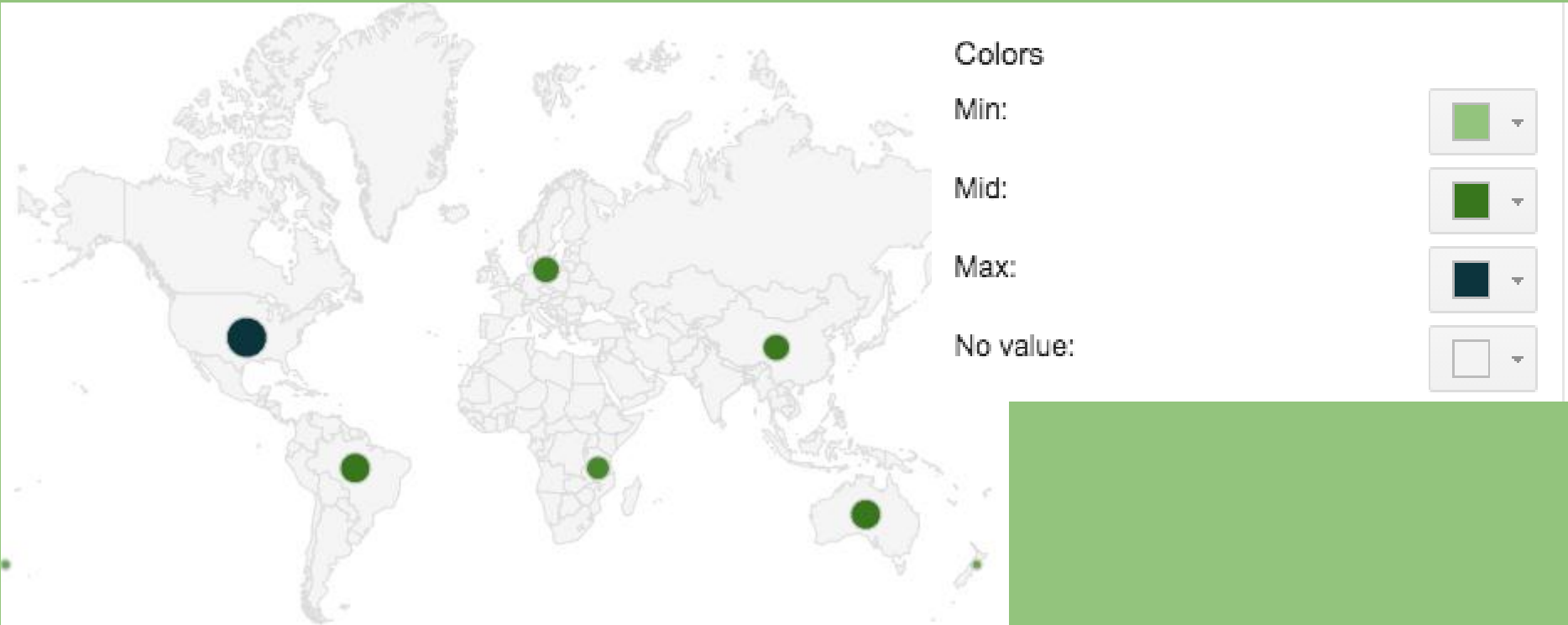
Max:



No value:



Where are they going?



Accidental Pathways and Future Research

- Stowaway
 - Birds 2
 - Mammals 3
- Unaided
 - Birds 4
 - Mammals 4
- Future research should be focused on accidental unaided pathways.

citations

Leslie Jr, D.M. (2011) *Rusa unicolor* (Artiodactyla: Cervidae). *Mammalian Species*, 43(871)

Gluzberg, Yekaterina. "Invasion Biology Introduced Species Summary Project - Columbia University." *Invasion Biology Introduced Species Summary Project*. Columbia University, 15 Oct. 2001. Web. 17 Sept. 2014.

Kraus, Fred. (2003). Invasion Pathways for Terrestrial Vertebrates. In Carlton, J., G. Ruiz, and R. Mack (Eds.), *Invasive species: vectors and management strategies* (pp. 68-92). Island Press, Washington, D.C.

The Invasive Species Compendium

Global Invasive Species Database

Google Scholar