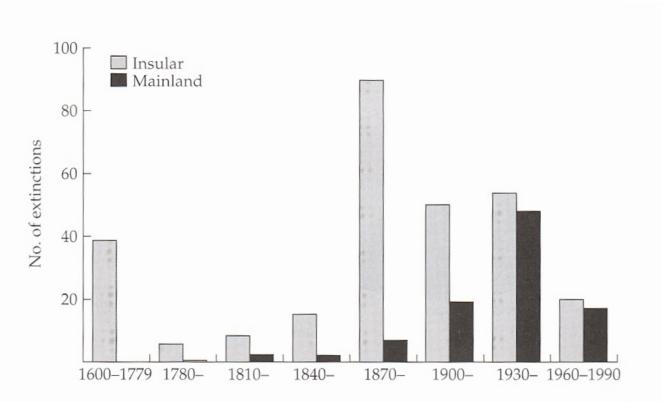
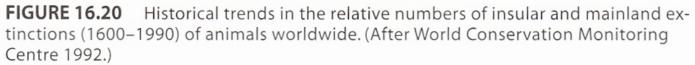
## **Historical Human-Caused Extinctions**





Lomolino et al., 2006

- Why the earlier extinctions on islands?
- Why the decline in extinctions in more recent years?

## **Species Threatened with Extinction**

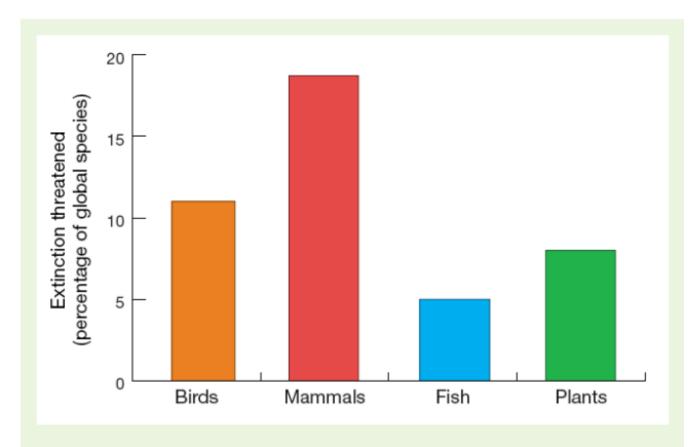
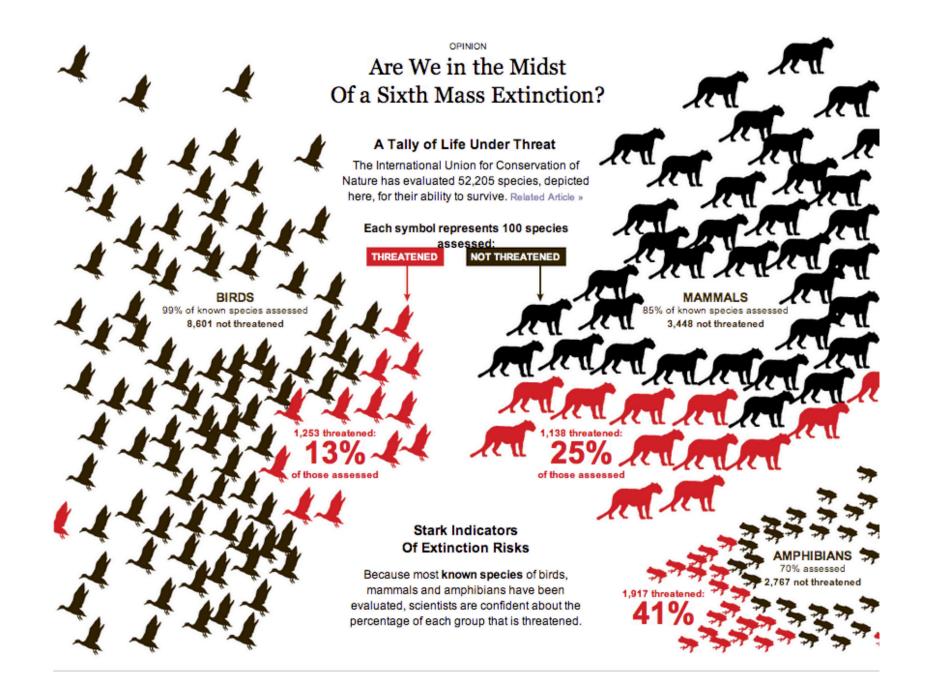
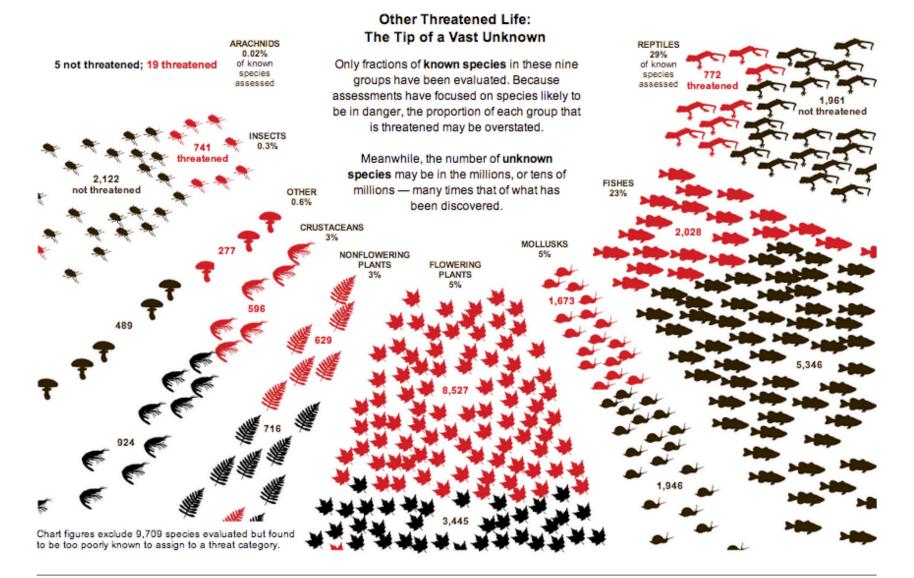


Figure 2 Proportion of the global number of species of birds, mammals, fish and plants that are currently threatened with extinction<sup>4</sup>.

Chapin et al., 2000; Pimm et al., 1995





Already Gone	Mollusks	Birds	Flowering plants	Mammals	Fishes	Insects	Amphibians	Reptiles	Crustaceans	Nonflowering plants	Others	No known arachnid
Species known to be extinct, or extinct in	Ì	2	\$	land	222	St	\$\$		A.	đ	T	extinctions.
the wild, since 1500:	327	136	110	79	68	60	39	22	12	10	2	

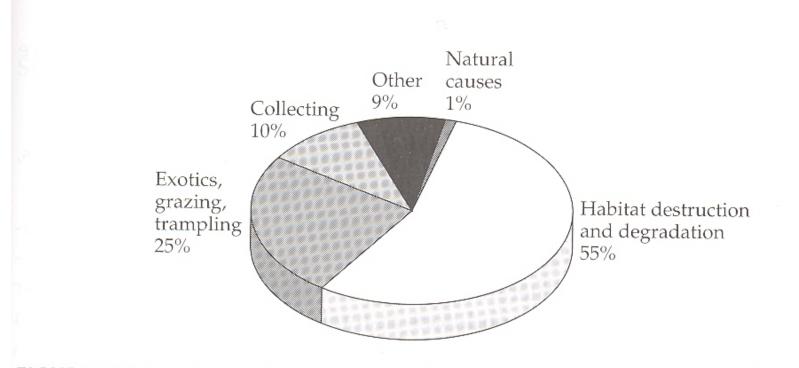
Biogeography

Bill Marsh, NY Times, 2012

Prof. J. Hicke

## Why are extinctions occurring?

Plants: Causes of endangerment

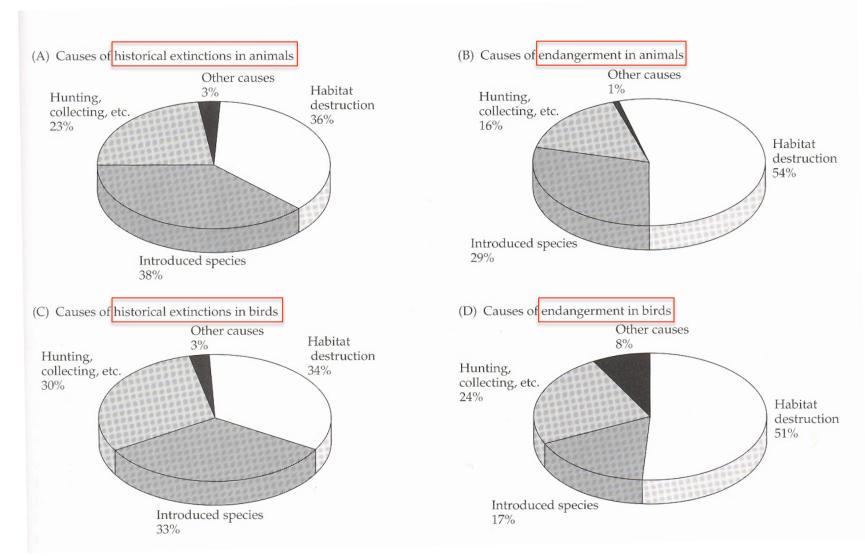


**FIGURE 16.22** Causes of endangerment for plants of the United States. (After Schemske et al. 1994.)

Lomolino et al., 2006

Biogeography

## Why are extinctions occurring?



Lomolino et al., 2006

Biogeography