

## 6) Clearing of forests...

<http://safeshare.tv/v/ss563b5882b71a7>



<http://safeshare.tv/v/ss563b58f7152b5>



<http://safeshare.tv/v/ss563b594aa7d4a>



Christmas Mountain Blowdown



## 7) Use of pesticides and fertilizers...





# The Future of Biodiversity

## 'Species at Risk'



# Saving Species One at a Time

- Captive-breeding programs
  - Hope of reintroducing such species back into the wild
  - Ex. condors
  - Preserving genetic material
    - Germ plasm is any form of genetic material
    - Used for future use in research and species-recovery efforts
  - Zoos, aquariums, parks and gardens
  - Typically, a last resort for a species' survival
- More study needed



## Preserving Habitats and Ecosystems

- The most effective way to save a species
- More species can be targeted in conservation efforts
- Focus on hotspots and those areas that are linked to larger networks

# Legal Protection for Species

- Such laws protecting species are recent
- Endangered Species Act
- Habitat conservation plans attempts to target certain species across large areas of land through trade-offs and cooperative agreements
- International agreements happen through the IUCN (International Union for the Conservation of Nature)
  - Red lists
  - CITES (Convention on the International Trade in Endangered Species)
  - The Biodiversity Treaty from the Earth Summit





**COSEWIC...**  
**Committee**  
**On the**  
**Status of**  
**Endangered**  
**Wildlife**  
**In**  
**Canada**

### The 10 most recent animal extinctions in Canada

These creatures have either died out entirely or are extirpated from Canada

by [Blog of Lists](#)



## Species of Risk Levels...

There are seven different designations that COSEWIC uses to determine the level of risk for a species. Under the SARA, COSEWIC uses seven categories to indicate the level of danger an at-risk species currently faces:

**Extinct** - a species that no longer exists anywhere on Earth.

**Extirpated** - a species that no longer exists in the wild in Canada, but is still living in other areas of the world.

**Endangered** - a species that is facing imminent extirpation or extinction.

**Threatened** - a species that is likely to become endangered if nothing is done to reverse the factors leading to its extirpation or extinction.

**Special Concern** - a species that may become threatened or endangered because of a combination of biological characteristics and identified threats.

**Data Deficient** - a category that applies when there is not enough available information to determine if the species is at risk or not.

**Not at Risk** - a species that is not at risk of extinction.

**NOTE: SARA**  
'Species at Risk Act'



## Species at Risk in Canada

- Since the arrival of the first European settlers, more than 30 wildlife species have become extinct in Canada.
- At present, over 500 plant and animal species are considered at risk in Canada.
- Everywhere in Canada, people are engaged in recovery activities that benefit more than 200 species.
- All Canadians can take simple actions every day to help species at risk.

