

What do these have in common?



Tasmanian Tiger



Black Rhino



Japanese Sea Lion



Labrador Duck

## At Risk Species

<b>Classification</b>	<b>Description</b>	<b>Example</b>
<b>extinct</b>		
<b>endangered</b>		
<b>extirpated</b>		
<b>threatened</b>		
<b>vulnerable</b>		

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<b>endangered</b>	species that is close to extinction in all parts of Canada or in a significantly large location	
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<b>threatened</b>	species that is likely to become endangered if factors making it vulnerable are not reversed.	wood bison
<b>vulnerable</b>	species that is at risk because of low or declining numbers at the fringe of its range or in some restricted area	grey fox (returning to southern Ontario but needs woodlands)

Pop Quiz:

What is the correct order of the following words from most at risk to least?

extirpated          endangered

threatened      vulnerable

extinct

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extinct, endangered, extirpated threatened,  
vulnerable.

What causes a species to become at risk?

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## **Disturbance to Environments**

a disturbance is any change in a community's environment. A given community may even experience two types of disturbance.

1. Natural
2. Human caused

What does the word **equilibrium** mean?

Equilibrium generally means stable or balanced.

So if a population is at equilibrium it means they are around the carrying capacity.

If a disturbance happens, would this affect the state of equilibrium?

## At Risk Species

### Types of Disturbances:

#### **Habitat Loss and Change:**

- greatest cause of biodiversity loss
- clearing forests (logging, buildings roads/houses,)
- removal of food, shelter and other resources organisms need to survive.
- the smaller the habitat, the faster it loses it's biodiversity.

#### **Invasive Species:**

- a non-native (alien) organism that spreads widely in a community
- this can affect population growth

#### **Pollution:**

- fertilizers, pesticides, and toxic chemicals
- pollution to air and water that can poison people and wildlife.

#### **Overharvesting:**

- when species are hunted, fished, or harvested faster than the population can replenish itself
- some species of sea life are facing extinction due to over fishing (whales, sharks, tuna)
- poaching (illegal capture or killing of an organism)

## At Risk Species