



# **SAMAGRA**

## **THREAT TO BIODIVERSITY**

**GAURAV DESHPANDE (GROUP LEADER)**  
**AJINKYA BADAVE**  
**PRACHETAS DESHPANDE**  
**JERRY CHEN**  
**HARDIK PATEL**

# BRIEF DESCRIPTION

- BIODIVERSITY IS THE VARIETY OF LIFE FORMS PRESENT ON THIS EARTH. WE ARE LOOSING 137 PLANT, ANIMAL AND INSECT SPECIES EVERY SINGLE DAY.
- OF THE WORLD'S 5,490 MAMMALS, 79 ARE EXTINCT, 188 CRITICALLY ENDANGERED, 449 ENDANGERED, 505 VULNERABLE..
- IN THIS PROJECT- SAMAGRA - THREAT TO BIODIVERSITY, WE WILL DO A STUDY ON THE THREAT TO FLORA AND FAUNA USING INFORMATION, GRAPHS AND PICTURES





# **THREATS TO BIODIVERSITY**

## **CAUSES FOR THREAT TO BIODIVERSITY-**

- **DEFORESTRATION**
- **POACHING AND OVER HUNTING**
- **POLLUTION**
- **CLIMATE CHANGE**
- **NATURAL CALAMITIES**

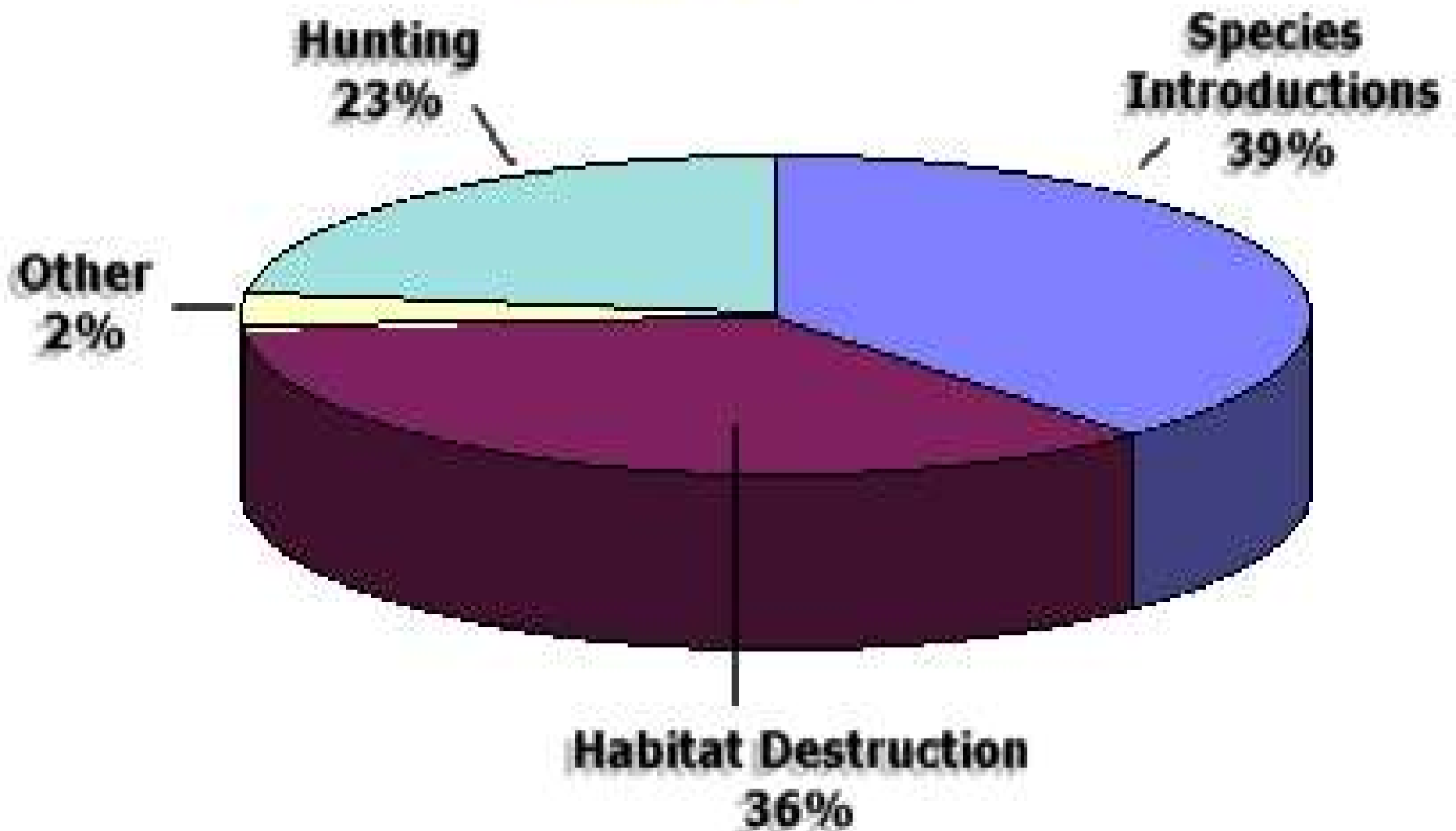
GROUP	SPECIES
➤ BACTERIA AND BLUE GREEN ALGAE	4760
➤ FUNGI	46983
➤ ALGAE	26900
➤ BRYOPHYTES	17000
➤ GYMNOSPERMS	750
➤ ANGIOSPERMS	250000
➤ CORALS AND JELLYFISH	9000
➤ REDWORMS AND EARTHWORMS	24000
➤ SPONGES	5000

GROUP	SPECIES
➤ INSECTS	751000
➤ INVERTABRATES	132461
➤ MOLLUSKUS	5000
➤ STARFISH	6100
➤ FISHES	19056
➤ AMPHIBIANS	4184
➤ REPTILES	6300
➤ BIRDS	9198
➤ MAMMALS	4190

TOTAL SPECIES

1321882!!!!

## Known Causes of Animal Extinctions Since 1600

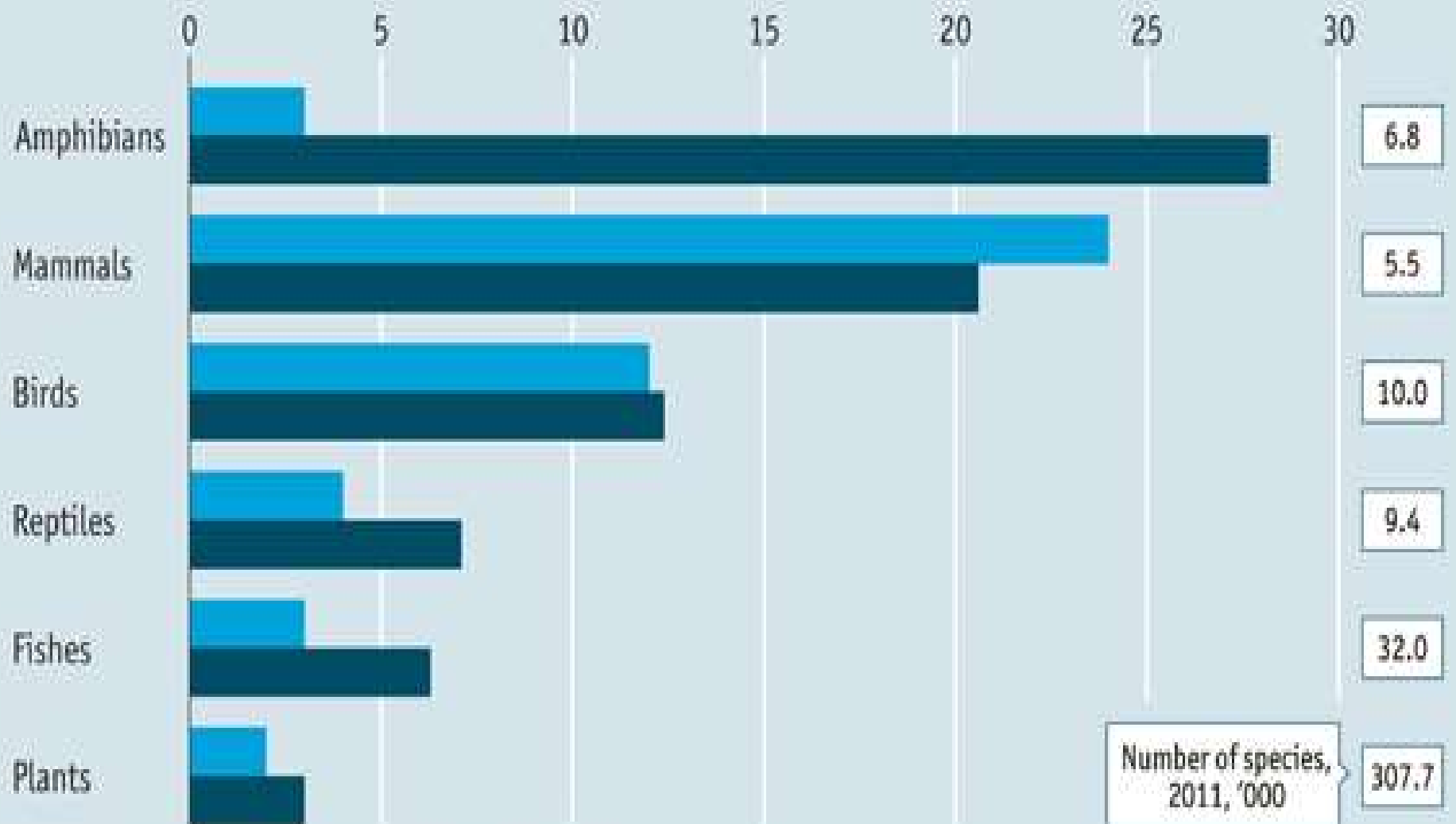


## Threatened species

As % of total

2000

2011



Source: International Union for Conservation of Nature



# CASE STUDY 1

## **SAN JOSE BRUSH RABBIT**



- **The San Jose Brush Rabbit was listed Critically Endangered in 2011.**
- **It is endemic to San José Island, Mexico.**
- **Predation by feral cats, habitat loss due to competition with feral goats, illegal hunting and human developments have caused a decline in the population since 1995/1996.**



# CASE STUDY 2

- **Przewalski's Horse is endangered. It was considered as extinct in the wild from the 1960s up to the initial assessment in 1996.**
- **A free-ranging wild population has been established back within its historic range in Mongolia.**
- **Hybridization with domestic horses, loss of genetic diversity and disease are the main threats to Przewalski's Horse.**

## PRZEWALSKI HORSE



# CASE STUDY 3

## RHINO

- The Southern White Rhino is listed as Near Threatened. The population is around 20,000 individuals (2010). Poaching efforts in South Africa and Zimbabwe have increased and in the absence of conservation efforts this species could become threatened very quickly.
- The Northern White Rhino is listed as Critically Endangered.

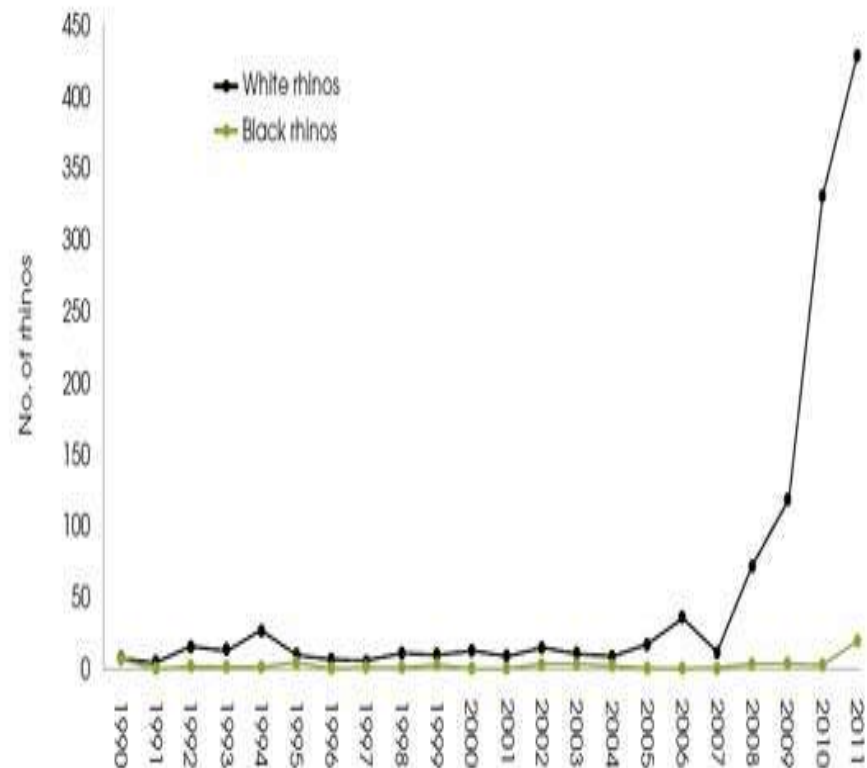
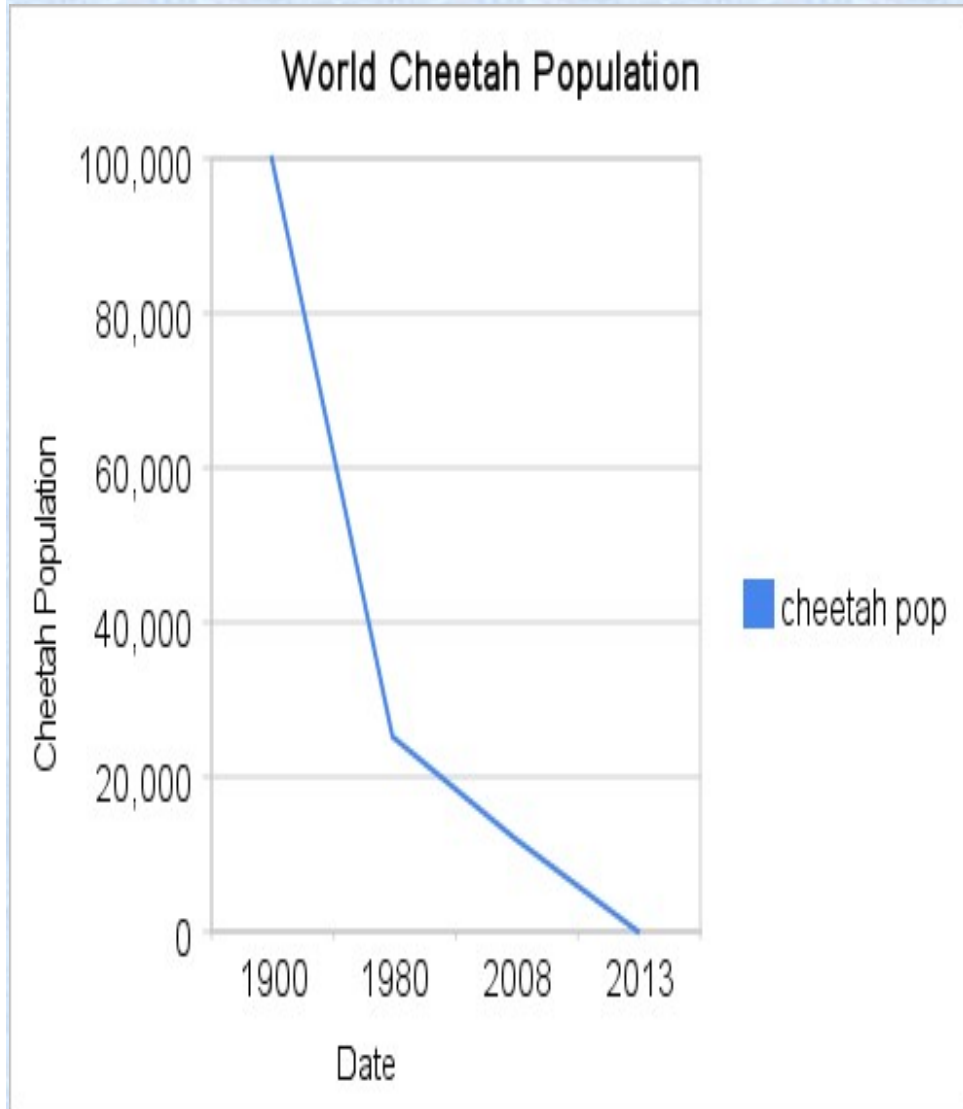


Figure 26 Number of White and Black Rhinos killed in South Africa between 1990-2011 (data from M. Knight)

# CASE STUDY 4

## CHEETAH





# CASE STUDY 5

- **European Mink is restricted to small patches in northern Spain and western France, the Danube delta in Romania, the Ukraine and Russia.**
- **Habitat loss, hybridization, local replacement by the American Mink have contributed in the decline of the European Mink. It is listed as Critically Endangered.**

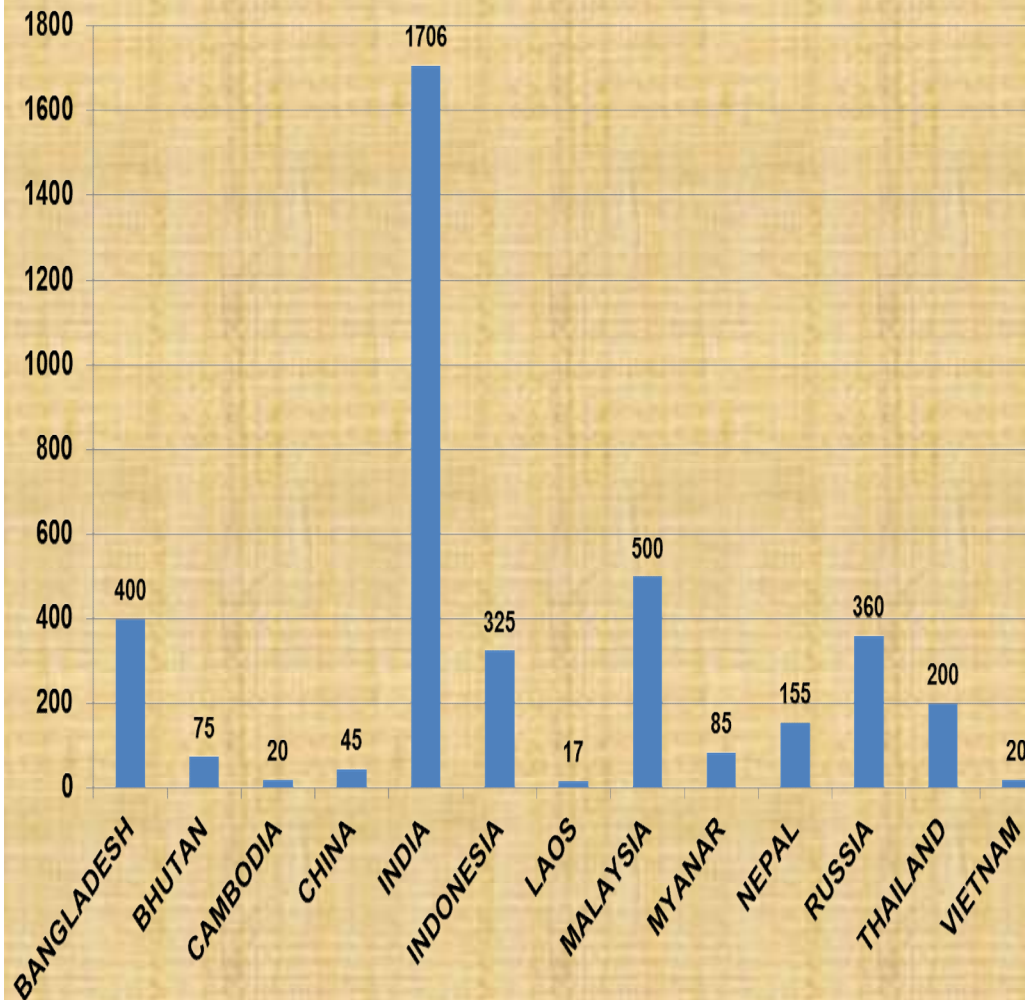
## EUROPEAN MINK



# CASE STUDY 6

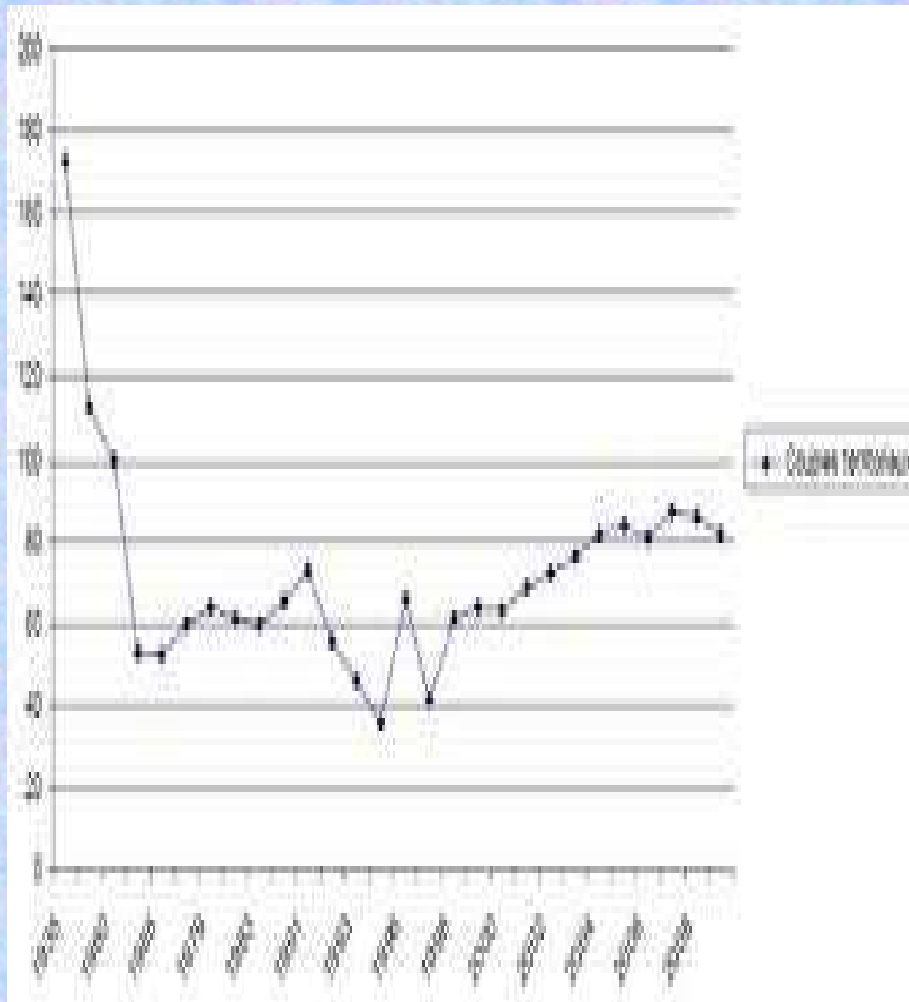
## TIGER

TIGER



# CASE STUDY 7

## VULTURE





# CASE STUDY 8

## ELEPHANT

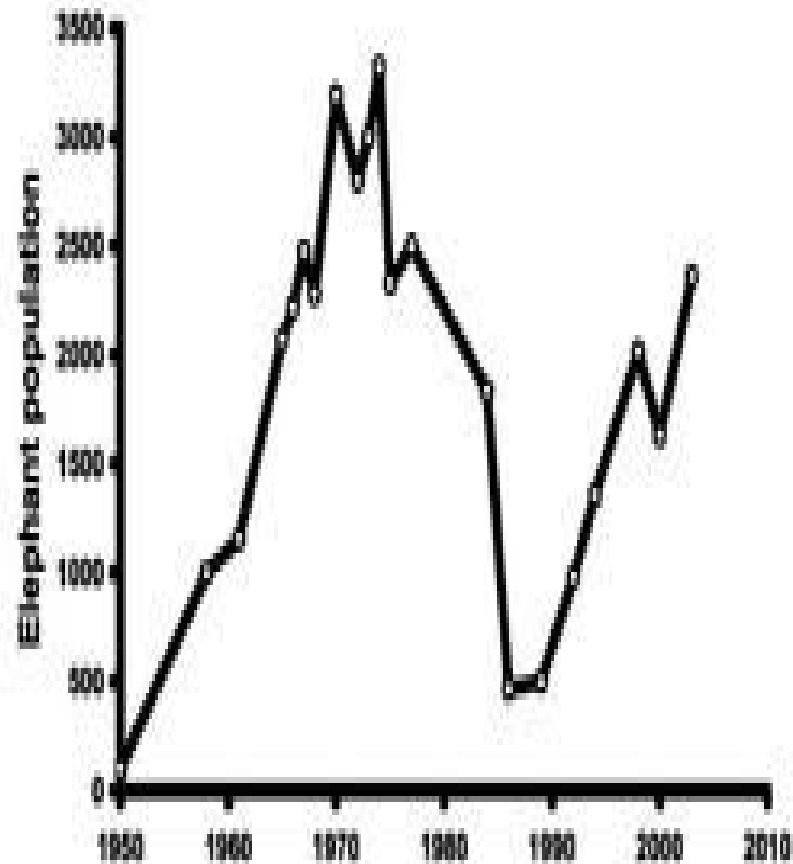


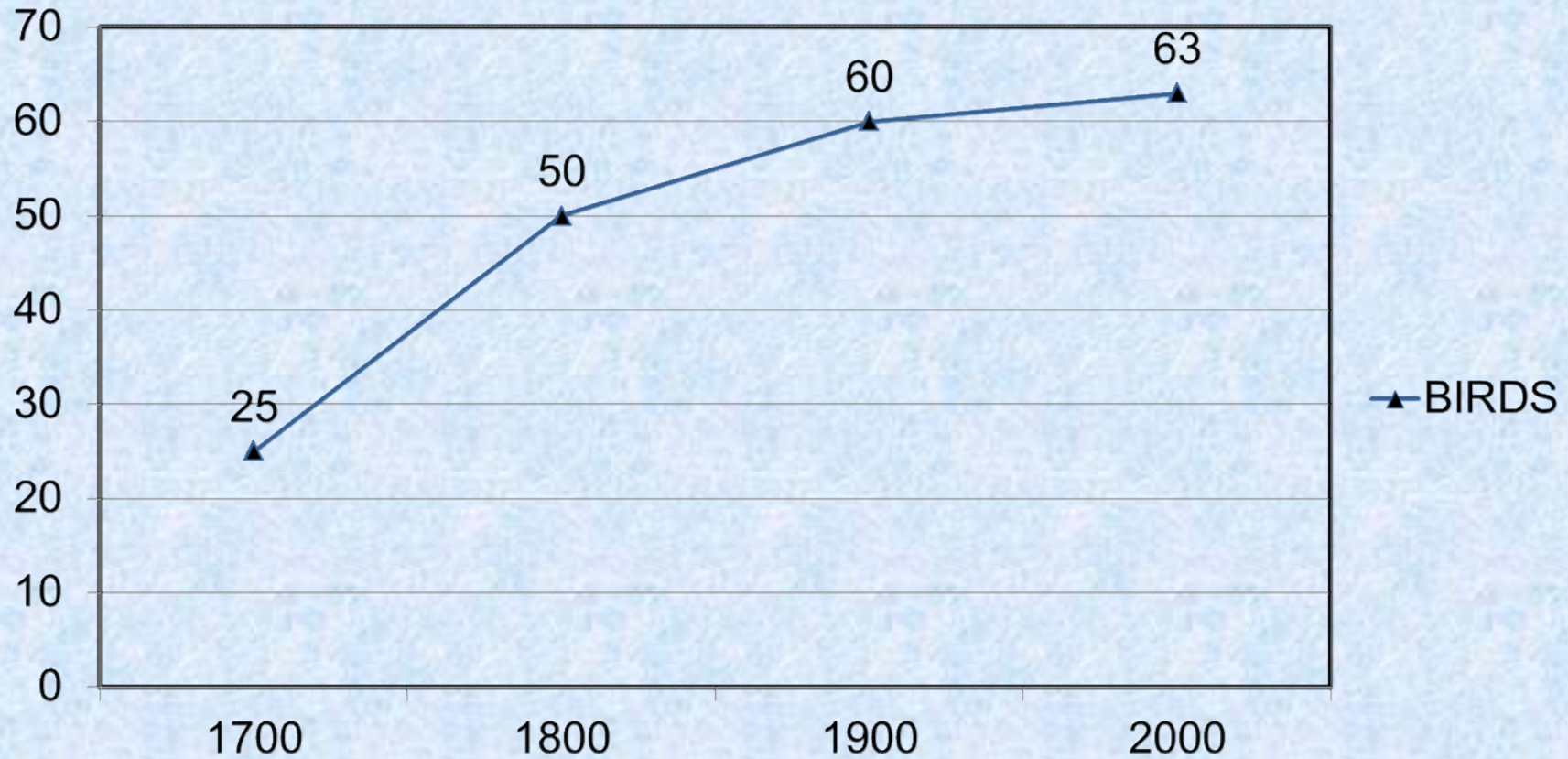
Fig. 2.18 Elephant population changes since 1950, showing the increase following the ivory trade of the 1960s, the decrease due to ivory poaching 1971–1988, and subsequent increase after the ivory trade ban.





# EXTINCTION OF BIRDS

**BIRDS**



# VISIT TO KATRAJ





# VISIT TO KATRAJ







**SAVE BIODIVERSITY**





THANK YOU