Threaten and Endangered Species

History - Federal

- Federal Threaten and Endanger Species Act
 - Enacted in 1973, several similar version prior to this version
 - Protect plant and animal species from extinction
 - Carried out by US Fish and Wildlife Service and National Marine Fisheries Service
 - Driven by the near extinction of the Bison and the whooping crane and the complete loss of the passenger pigeon
 - Listing/delisting is solely based on scientific data
 - Require a recover plan to be put in place to hopefully eventually delist in the future





History – Kansas

- Kansas Nongame and Endangered Species Conservation Act
 - Enacted in 1975
 - Protect plant and animal species within the state boundaries
 - Carried out by KDWPT
 - Keep common Kansas species common
 - Not all Kansas T & E species are federally listed
 - Also requires a state recovery plan (or use the federal plan if listed federally)





Currently

- Federal
 - 2,244 species listed
 - 1,618 are in the US
 - 884 plants
 - 307 invertebrates
 - 163 fishes
 - 95 birds
 - 96 mammals
 - 36 reptiles
 - 35 amphibians
 - 2 fungi lichens
 - 41 species have been delisted
 - 11 listed as extinct (that we know of)









Currently

- State
 - 51 species listed
 - 3 Mammals
 - 16 Fishes
 - 4 Birds
 - 16 Invertebrates
 - 8 Amphibians
 - 4 Reptiles
 - Some are both state and federal and some are just state



Process

- Research
 - Show significant decline is range
 - Show significant threats to populations
 - Usually human caused oil, gas or wind development, urban sprawl, deforestation, etc
- Petition for listing
 - Write up a formal document with all the research to back it and send to USFWS
- Committee from USFWS and USMFS review data
- Public hearings and comments are accepted and reviewed
- Decision is made
 - List and either Threaten or Endangered
 - Don't list as either
 - Rules as warranted but precluded needs more data and will be brought back to the committee in 12 months

Problems

- Historically underfunded
- Species are not listed until it is almost too late
- Sub-species listed?
 - Sage Grouse
 - Prebbles meadow jumping mouse
- Good job preventing Extinction but not necessarily Recovery
 - Recovery only seems to happen with the simple fixes
 - No hunting, stop pesticide/herbicides use, etc

Success Stories – Bald Eagle

- History
 - Early 1800s estimated 300,000-500,000 birds
 - 1950s only about 800 birds
- Reasons for Decline
 - Habitat loss
 - Shooting and trapping
 - Pesticides DDT interfered with metabolism of calcium which was needed to make strong eggs, eggs were too thin to support weight of incubating adult
- Recovery
 - Protected under early ESA and Bald and Golden Eagle Protection act
 - No shooting, trapping or killing
 - DDT banned in US in 1972 and in Canada in 1989
 - Estimates in 1992 had approximate 115,000 birds.
 - Kansas had 189 nests last year that we know of
 - Delisted in 2007





Success Stories – Grey Wolf

- Also called the Timber Wolf
- History
 - Used to range all over North America except in SE US
 - Declined with increase human populations and agriculture
 - Hunting and poisoning was the main issue
 - Over hunting of deer species, elk and caribou
 - Basically no wolves left in lower US and only a few packs were know of in Canada and Alaska
- Recovery
 - Listed on ESA in 1974 as Endangered
 - Regulations on hunting and poisoning imposed and regulations on hunting of deer, elk and caribou increased the prey abundance
 - Pack of wolves have been reintroduced to parts of Montana, Idaho and Minnesota
 - Down listed to Threatened in US and completely delisted in Canada in 2003



Stories Still in Progress - Whooping Crane

- History
 - Estimated 10,000 birds in early 1800s to 15 adults by 1938
 - Reasons for decline
 - Very low reproductive success, severe weather in wintering grounds, reduction in marsh habitat in breeding ground and on migration route
- Recovery
 - Tried captive breeding programs most of which were unsuccessful
 - Conserve of wetlands and marshes in Canada and along the migration route in the Central US
 - Populations have seen a slow but steady increase
 - Current population is just over 800 birds



Stories Still in Progress – Black Footed Ferret

History

- Unknown how many ferrets used to be around
- Harvest for fur, poisoning of prairie dogs, and sylvatic plague (which killed prairie dogs) were the main causes of decline
- Only 18 ferrets were know to be living in the wild

Recovery

- Listed on ESA in 1967 as endangered
- Those 18 were capture and bred in captivity using artificial insemination to ensure good genetic spread between individuals
- Very successful however issues with prairie dogs is still on going
 - Have to treat prairie dog towns for plague
 - Some states still allow poisoning of prairie dogs for agriculture purposes
- 2013 approximately 1200 ferrets in wild



