

# Wildlife Habitat Management



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# Part I: Overview of Workplace

The Wildlife management department with the Iowa DNR focuses primarily on the management and preservation of habitat in Iowa. Be it for hunting purposes or the preservation of natural species.

## Part II: Workplace Focus

Wildlife Habitat Management

Hunting Habitat Management

- Managing habitat to promote Waterfowl

Sample Tasks - Intensive grazing to promote pressure on invasive and undesired plant life. Draw down to kill off carp to promote desired plant life.

- Role of Individuals - changing water levels, managing livestock present on land, managing interactions from different wildlife, spraying to promote desired plant life.

## Part III: Introduce the Problem

The problem that the project surrounds is the management of land to promote the best natural setting - that takes into account multiple species and cost benefit analysis of practices.

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You have been tasked with managing a specific piece of property for a specific wildlife species or species - and creating a management plan.

What is the current ecosystem like, how has it changed over time, and what impacts did this have on the species present? How can you promote the growth of the \_\_\_\_\_ population? What management practices do you suggest and why?

# Part IV: Standards, Driving and Essential Questions

## Main NGSS Standards:

- HS - LS2-6 :Evaluate the claims, evidence, and reasoning that the complex interactions in ecosystems maintain relatively consistent numbers and types of organisms in stable conditions, but changing conditions may result in a new ecosystem.
- HS - LS2-7 : Design, evaluate, and refine a solution for reducing the impacts of human activities on the environment and biodiversity.\*

## Main Questions:

- How has this ecosystem changed over time - and what impact has that had on the biotic and abiotic factors?
- What management strategies can be employed to promote redevelopment of natural resources - why those strategies?

## Part V: Extern Host Role

The role of my host is ideally based on time availability:

1. Provide experience and information and various management practices and their benefits and drawbacks at the beginning of the project. Host discuss management goals and practices.
1. Act as an outside review for the students final management plans - providing realistic expectations and potential problems.

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## Part VI: Student Learning

Student Choice: Based on available resources I would like to provide students with a choice of management ecosystems and target species (wetlands, prairies, ect.).

Student Reflection: Students will have an opportunity to revise their management plans based on feedback from host - and a reflection from this.