

Environmental Science Lesson Plan Overview

Below are materials for a unit that was implemented with college students on rangeland woody encroachment.

The unit consists of a digital lab, a game activity, and a group research project.

- The lab includes a short background text and instructions for using Rangelands Analysis Platform (RAP), followed by a set of questions.
- The game activity involves playing Prairie Protector and completing a worksheet; a spreadsheet is also provided for students to track their progress in the game.
- The group research project requires student groups to conduct a study of a chosen landscape's vegetation and present it in scientific article form.

Materials

- Computer (one per student)
- [Digital RAP lab + introduction to group research project](#)
- [Group research project: activity 1](#)
- [Group research project: activity 2](#)
- [Group project: example](#)
- [Prairie Protector \(game website\)](#)
- [Prairie Protector worksheet](#)
- [Prairie Protector data collection sheet](#)