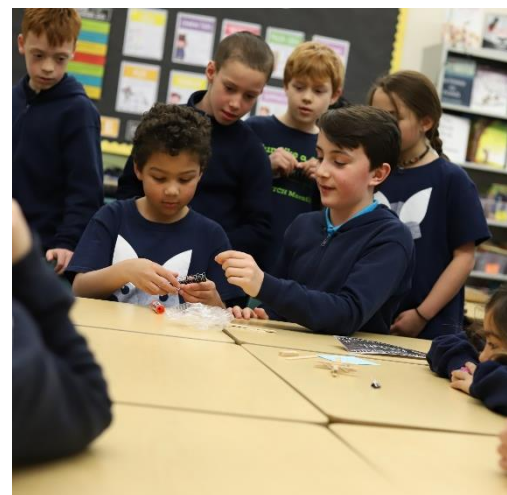




# Oregon Agriculture in the Classroom



**Food, Agricultural Landscapes and the Development Conundrum**



# Program Information

## **Mission**

To help students grow in their knowledge of agriculture, the environment and natural resources for the benefit of Oregonians today and in the future.

## **Overview**

- Agriculture is used as a context to teach core subject standards
- Cross-curricular hands on materials and lessons geared towards core standards for all educators
- K-12, public, private, homeschool, afterschool, extracurricular, in all 36 counties of Oregon
- Supported by agricultural community



# Food, Agricultural Landscapes and the Development Conundrum

## Curriculum Exploration

- Earth as an Apple
- Geography and Climate of Agriculture Landscapes
- Where Should Development Go?



How much of the  
Earth's surface is  
ideal for  
**GROWING  
CROPS?**

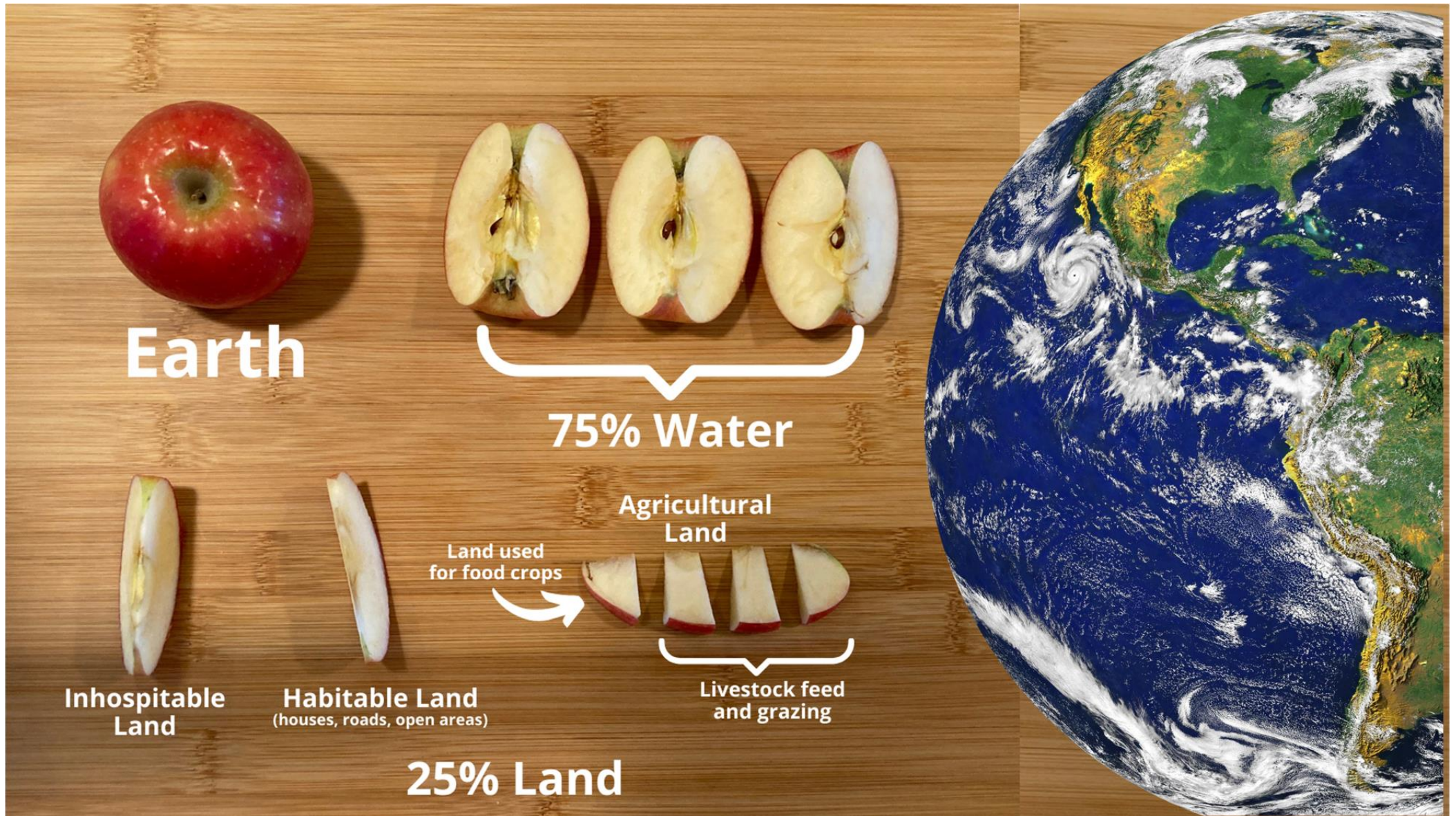





# Earth as an Apple



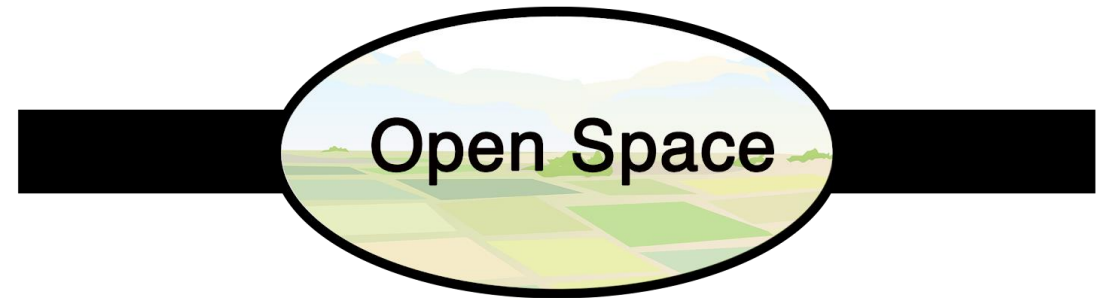
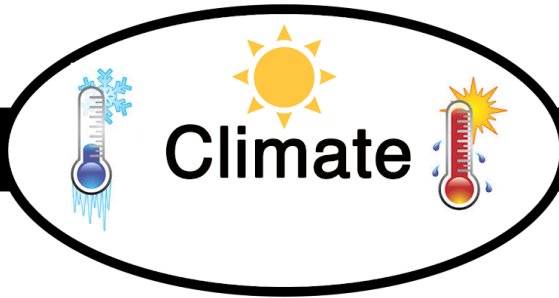








**What factors influence  
production of crops?**





# The Conundrum

**Production of food will have to increase  
by 70% to feed an additional 2.3 billion  
people by 2050.**



Lesson:

**Where should development go?**



# The Basics

Growing population → more need for development

More development → less land for agriculture uses

**Where will the growing population live, work and do business?**





# Types of Development



**SHOPS**



**INDUSTRY**



**PUBLIC USES**



**HOUSING**





# Considerations

*Where do we **NOT** want to develop?*



**FLOODPLAIN**



**FOREST LAND**



**STEEP SLOPES**



**WILDLIFE HABITAT**

**FARM LAND**

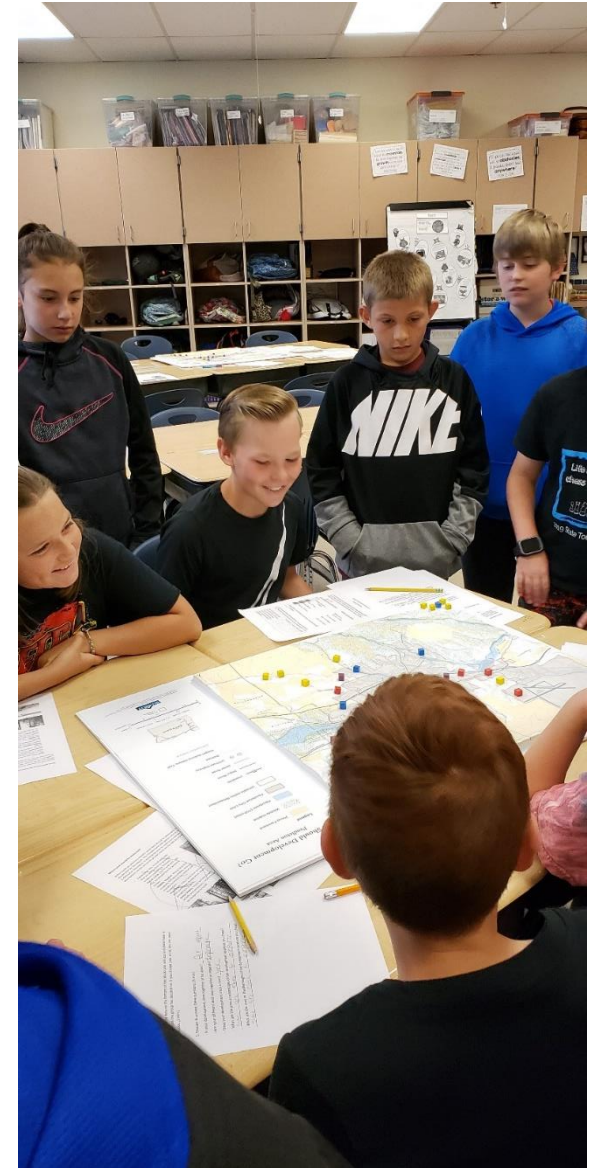






# The Challenge

Plan for development while still protecting important farm land, forest land and wildlife habitat.







# Considerations

- **Clue #1:** They try to find land that is close to the edge of the city and near roads.
- **Clue #2:** They try to find land that isn't very good for growing farm crops, livestock or timber.
- **Clue #3:** They try to find land that isn't very important for fish and wildlife.
- **Clue #4:** They try to find land that isn't hazardous to develop.
- **Clue #5:** They avoid state and federal parks and forest lands, local parks, Indian reservations, scenic areas and forest lands.



## How much development do we need to plan for?

### City of Pendleton

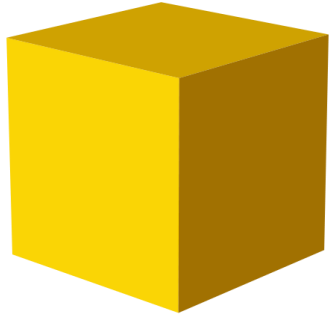
In 2018 population 16,677

By 2040 another **1,977** people are estimated to be living in the city.

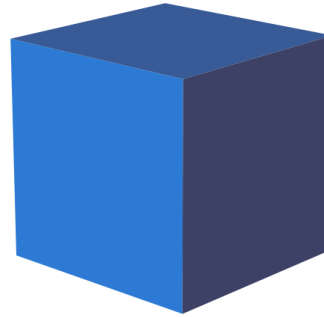
**Planning calculations!**



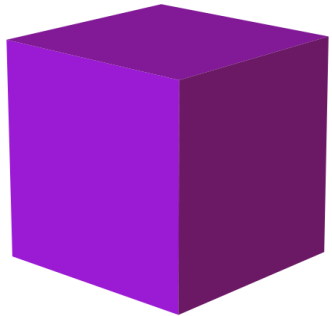
# Give it a try! Planning Codes



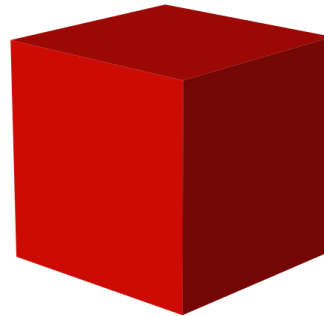
**Housing**



**Public Use**



**Industry**



**Shops/ Commercial**





# Fruit & Vegetable Research

## Climate:

Orange trees need temperatures between 55 and 100 degrees and winter temperatures above freezing. It's too cold to grow oranges in Illinois..

## Water:

Chicago gets an average of 38 inches of rain per year which would be adequate for an orange orchard.

*Chicago, Illinois*

## Orange

Where is it grown?

*California*



## Soil:

Orange trees don't do well with heavy clay soils. They need well-drained soil.

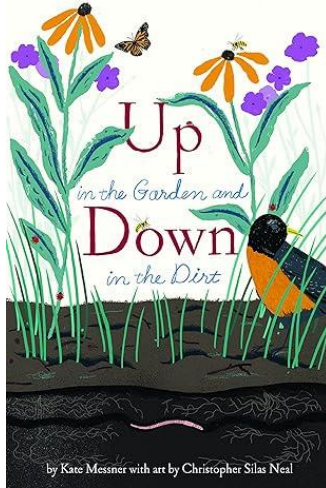
## Open Space:

Open space right in Chicago would be difficult or impossible to find.




# Oregon AITC Resources

## Literacy Project



## Current Events

 Oregon Agriculture in the Classroom Foundation

**Current Events in Agriculture September 25 Edition**

Article: New land trust program director focuses on preserving Oregon farms  
[https://drive.google.com/file/d/1GghuG89fD6apY1L1Vh6ZcZ5eo2y26L/view?usp=share\\_link](https://drive.google.com/file/d/1GghuG89fD6apY1L1Vh6ZcZ5eo2y26L/view?usp=share_link)

Directions: Read the attached article and respond to the questions below. You may refer back to the article as needed.

1. What is Alice Williamson's job title and responsibilities?
2. Why does the Oregon Agricultural Trust exist?
3. What is the "Census of Agriculture"? What did the data discover in 2017 relating to farmland in Oregon?
4. What percentage of Oregon producers do not have a succession plan? What is a succession plan and why is this a concern?
5. Do you think this is important work? Why or why not?

## Agricultural Advocacy Award



## Curriculum



## Lending Library



## Kits



# Thank You!

Oregon Agriculture in the Classroom  
200 Strand Ag Hall  
Corvallis, Oregon 97331  
[oregonaitc.org](http://oregonaitc.org)



Jade Davidson  
Executive Director  
[Jade.Davidson@oregonstate.edu](mailto:Jade.Davidson@oregonstate.edu)  
(541) 737-8629

Brittany Capell  
Education Programs Coordinator  
[Brittany.Capell@oregonstate.edu](mailto:Brittany.Capell@oregonstate.edu)  
(541)737-1318