

SILVOPASTURE AND FORESTLAND



GRAZING STRATEGIES



Timber

Livestock

2

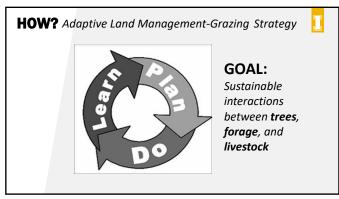
why manage for Both?

Livestock Production

Aesthetics

St Health

Lower Fire Risk





1. Forest Age 2. Forest Composition 3. Management • Forest Canopy • Deciduous vs. Evergreen

GOAL:
Sustainable
interactions
between trees ,
forage, and
livestock



DESCRIBE THE LAND: FORAGE

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- 1. Identify key forage species (palatable)
- 2. Abundance

We want livestock to select herbaceous forage instead of trees.

8

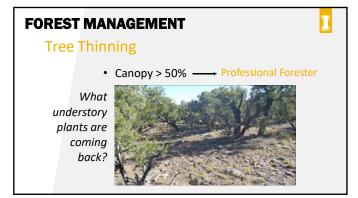
DESCRIBE THE LAND: FORAGE



- 1. Identify key forage species (palatable)
- 2. Abundance

Livestock Species







FOREST MANAGEMENT

Brush Management



https://www.nrs.fs.fed.us/fmg/nfmg/fm101/silv/p2_treatment.html

13

GOAL: Sustainable

interactions between trees, forage, and livestock



14

LIVESTOCK CONSIDERATIONS

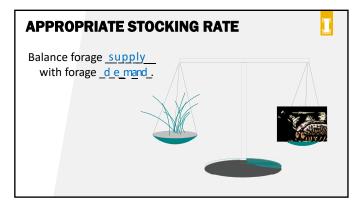


Animal numbers and distribution is critical for success!

- Livestock may damage roots, shoots, bark.
- Trampling seedlings and broken branches
 Soil compaction = reduced infiltration
 Weed introduction

Benefits:

- Reduced Competition
 - Reduced Fire Risk
 - Economic Benefits



APPROPRIATE STOCKING RATE

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The **number of animals** a land manager places on a **piece of land** for a specified **period of time**.

Consider the most important grazing decisions.

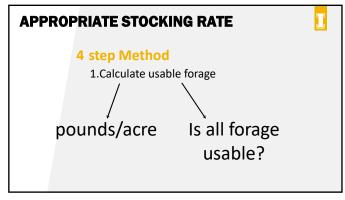
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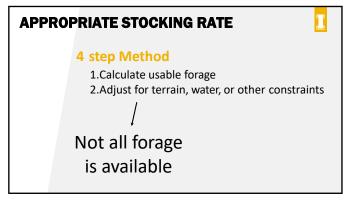
APPROPRIATE STOCKING RATE

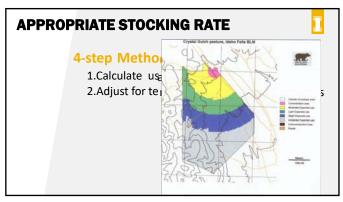


4 step Method

- 1.Calculate usable forage
- 2.Adjust for terrain, water, or other constraints
- 3. Calculate forage demand of animals
- 4.Calculate stocking rate







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4 step Method

- 1.Calculate usable forage
- 2. Adjust for terrain, water, or other constraints

Depends on:

- •Animal species, breed, and experience
- Topography and soils
- Season

22

APPROPRIATE STOCKING RATE



4 step Method

- 1.Calculate usable forage
- 2. Adjust for terrain, water, or other constraints
- 3. Calculate forage demand of animals
- Estimated on the weight of animals.

Ruminants = 2.5% of body weight/day Hind-gut Fermenters = 3.0 % of body weight/day

• Weight of animal X daily dry matter intake X number of days pasture will be grazed = forage demand/animal/year.

23

APPROPRIATE STOCKING RATE



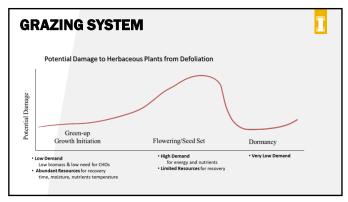
4 step Method

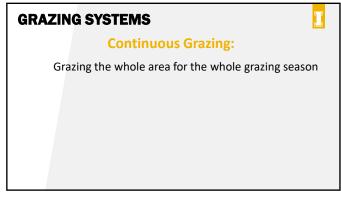
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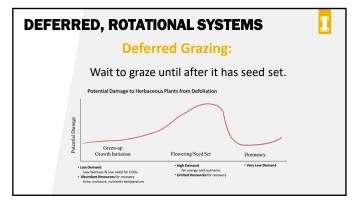
Stocking rate = total usable forage/forage demand

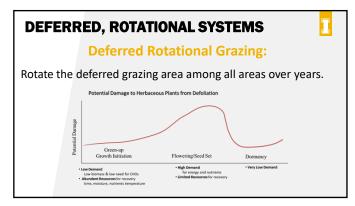
DISTRIBUTION AND GRAZING SYSTEMS Herding, Fencing, Supplements
 Soils are wet = livestock should be removed Fencing = is a management tool > grazing systems Strategically place water, salt, supplements

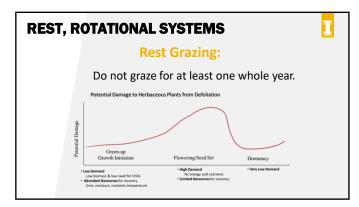
The number of animals a land manager places on a piece of land for a specified period of time. Grazing System











• There is no "silver bullet" system that will work everywhere. • There are thousands of variations on a theme... • All systems need to be flexible to manage unexpected disturbance such as fire or weed

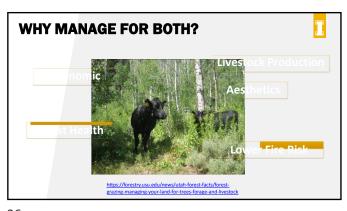
invasions.

32













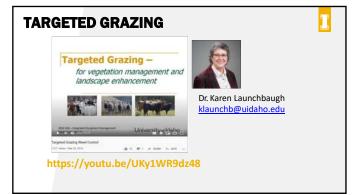


OUTLINE

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- •Targeted Grazing: Theory and Techniques (Dr. Karen Launchbaugh)
- •Highlight annual grasses studies in Southern Idaho
- Discussion/Questions

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41



Management Objectives:

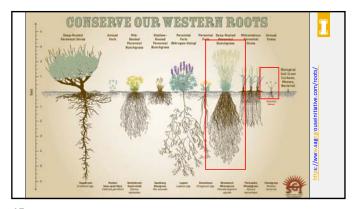
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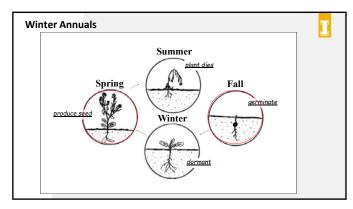
- 1. Where are we at currently?
- 2. Where do we want to be?
- 3. How do we get there?
- 4.How will we know what and when adjustments will be needed?
- 5. How will we know we've gotten there or are making progress towards getting there?

43



44

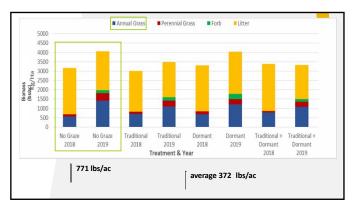


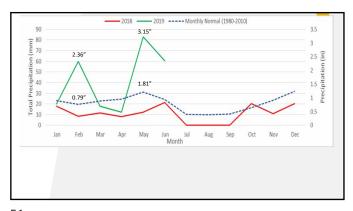


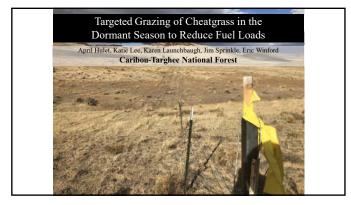












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