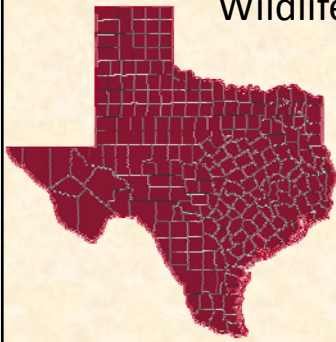


# Managing with the Whole Landscape Health in Mind

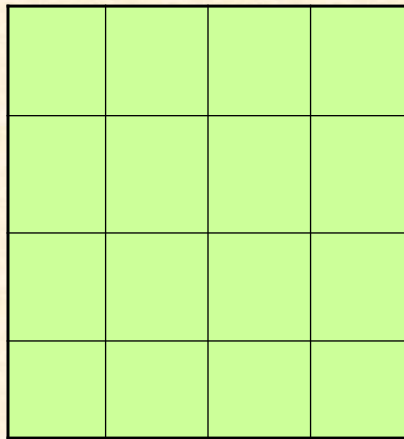
Jim Cathey, Ph.D.

Department of  
Wildlife and Fisheries Sciences



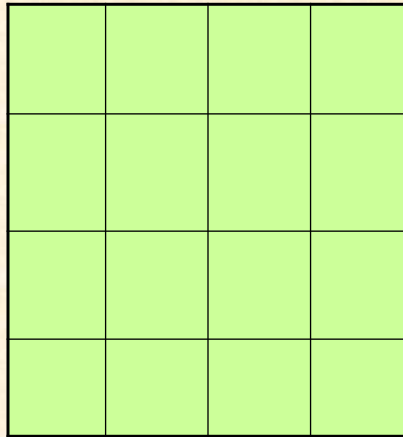
TEXAS A&M  
**AGRILIFE**  
EXTENSION

## Problem Solving



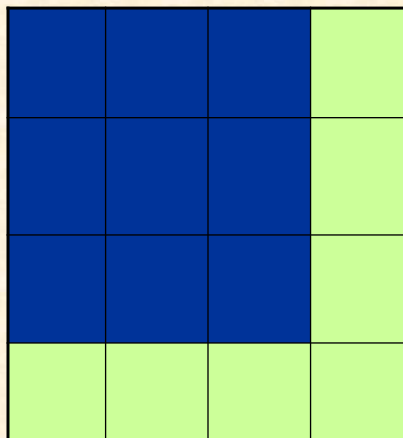
How many squares  
are shown here?

## Problem Solving



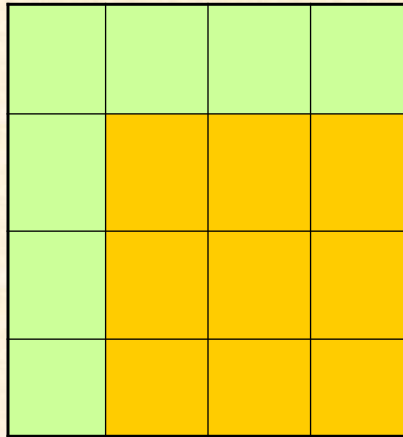
Squares = 1

## Problem Solving



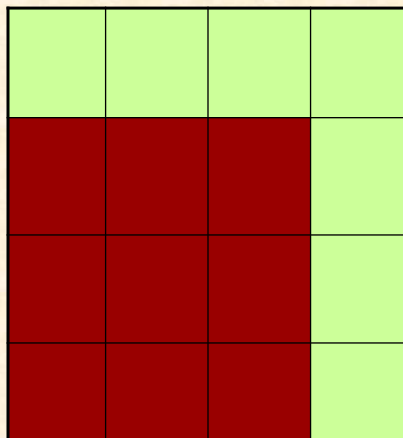
Squares =  $1+1 = 2$

## Problem Solving



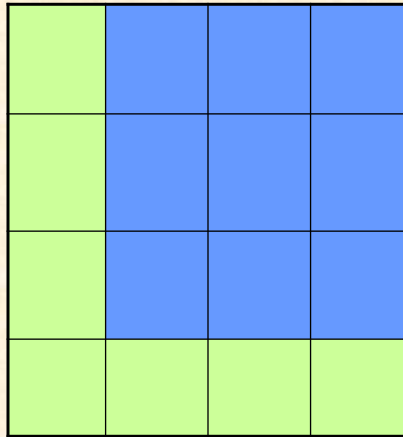
$$\text{Squares} = 1+1+1 = 3$$

## Problem Solving



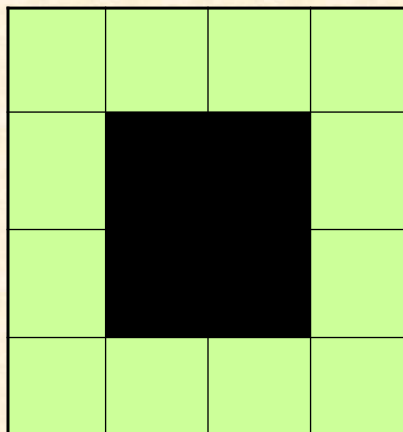
$$\text{Squares} = 1+1+1+1 = 4$$

## Problem Solving

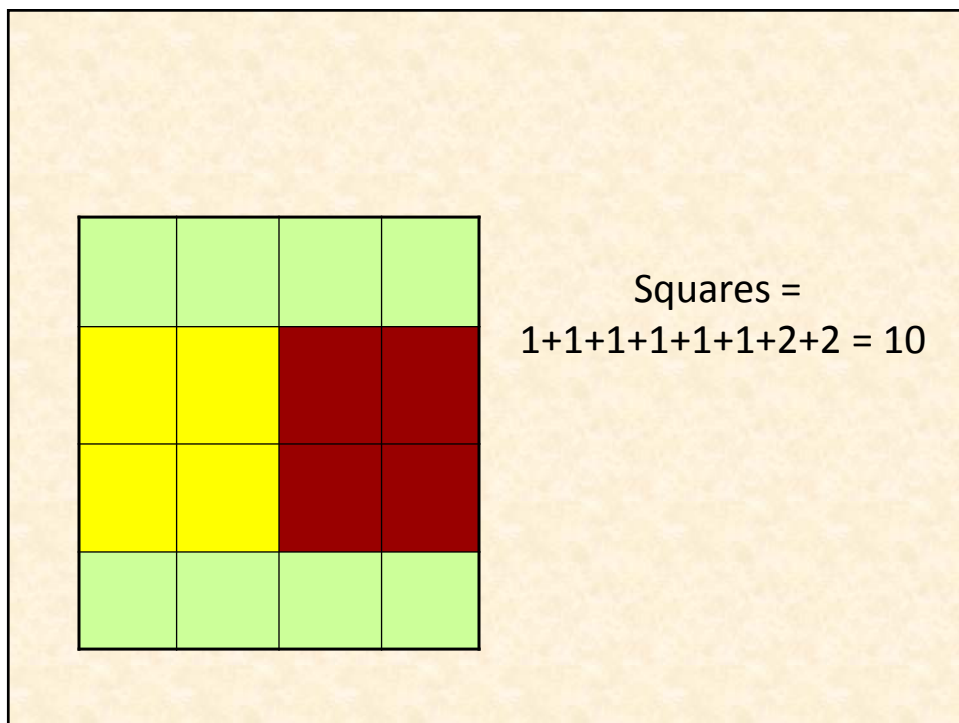
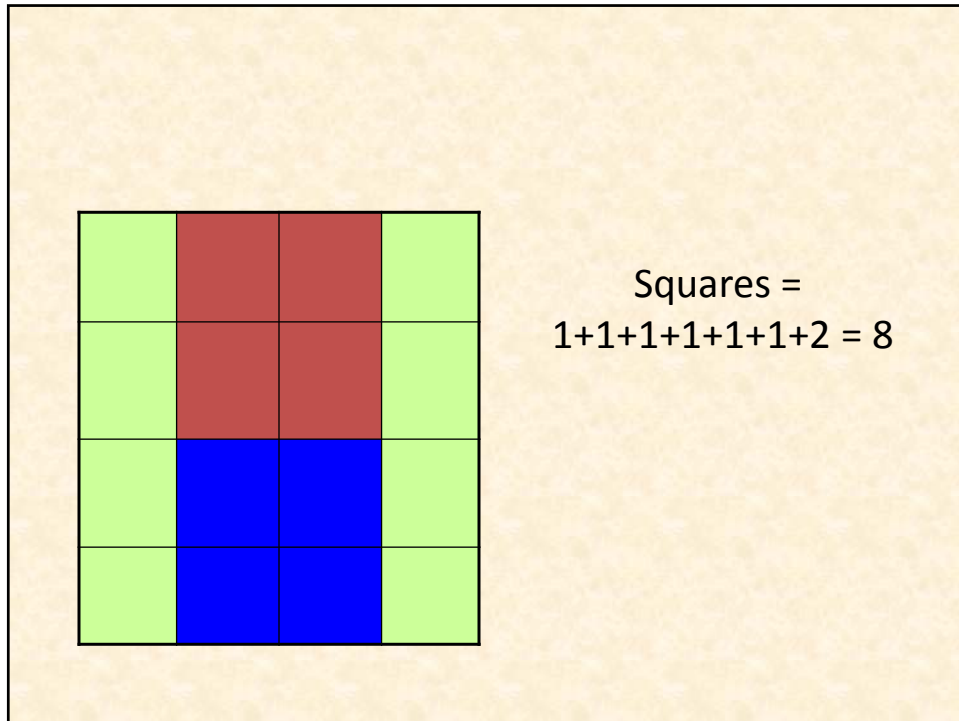


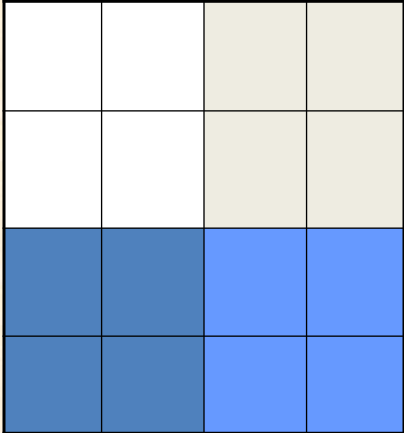
Squares =  
 $1+1+1+1+1 = 5$

## Problem Solving



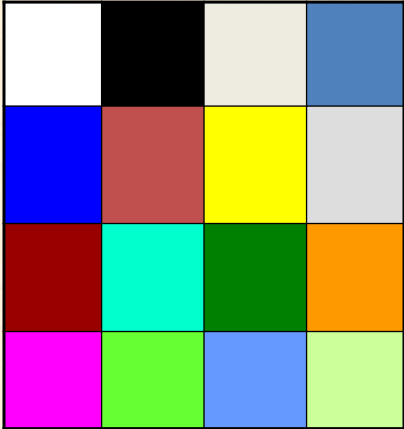
Squares =  
 $1+1+1+1+1+1 = 6$



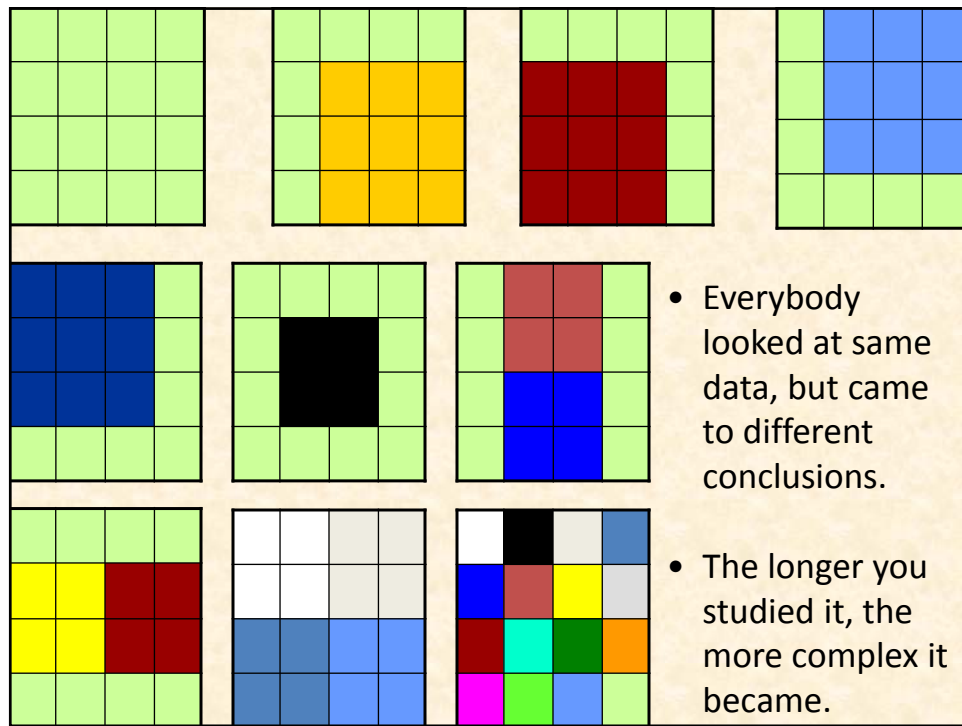


Squares =  
 $1+1+1+1+1+1+2+2+4 = 14$

### Problem Solving



Squares =  
 $1+1+1+1+1+1+2+2+4+16 = 30$

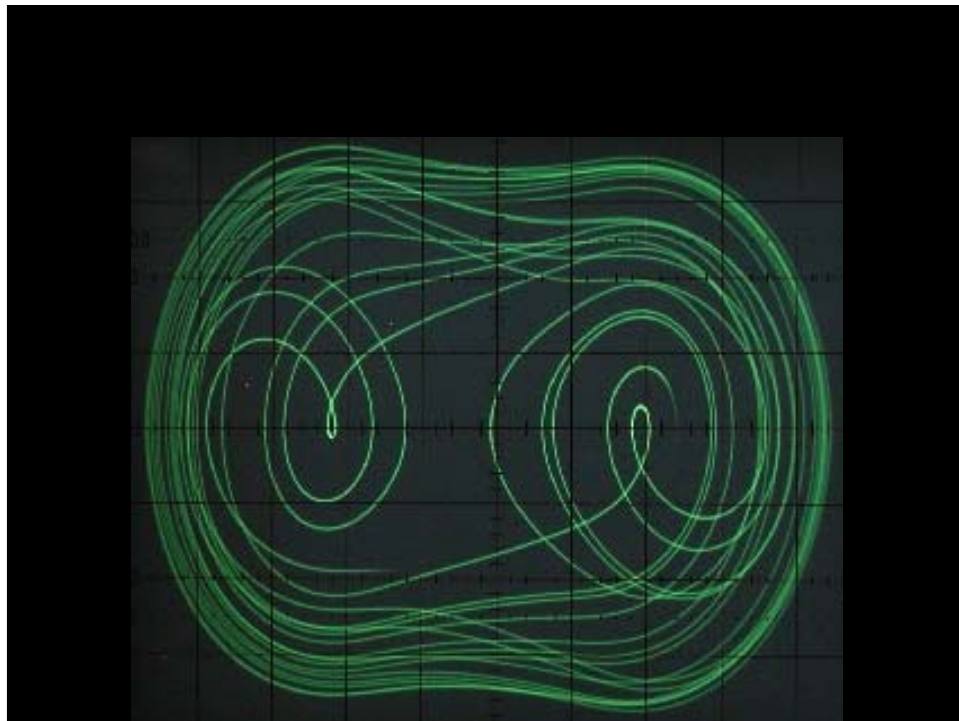
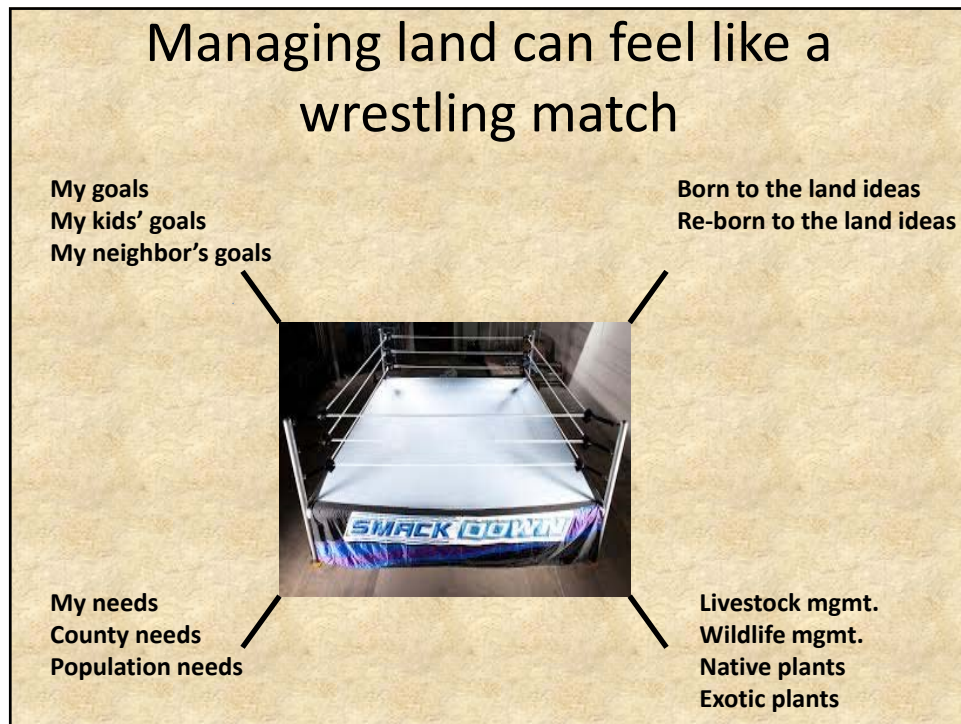














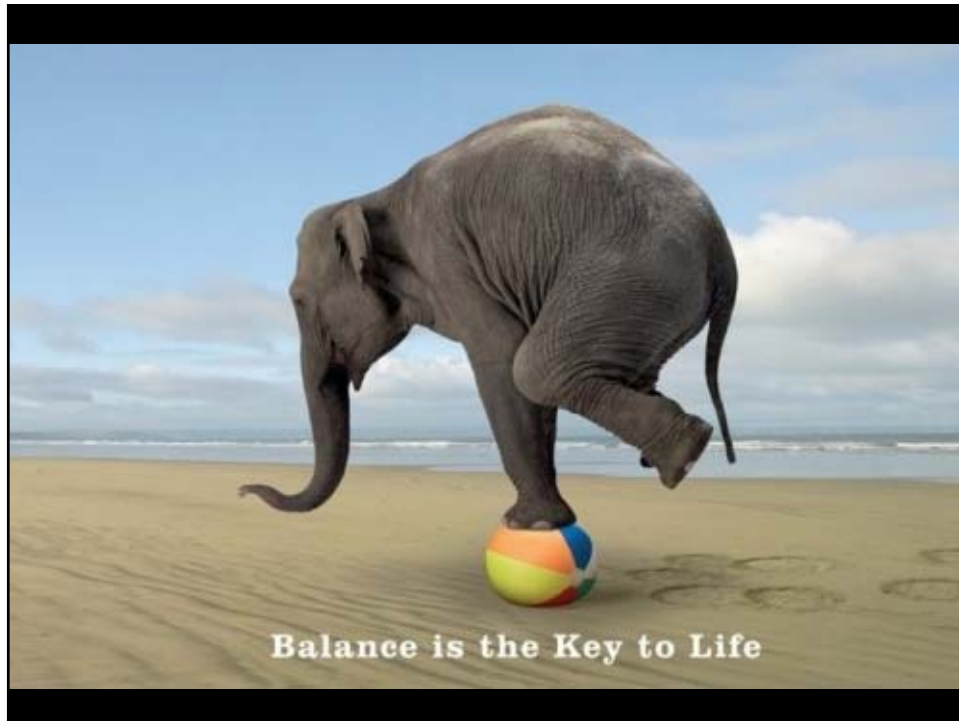


Do I conform to the flock behavior?



Do I charge in... blindly?





## Stay Focused



**My goal is to ...**



**My goal is to ...**

❖ **Success primarily depends upon how hard you are willing to work**

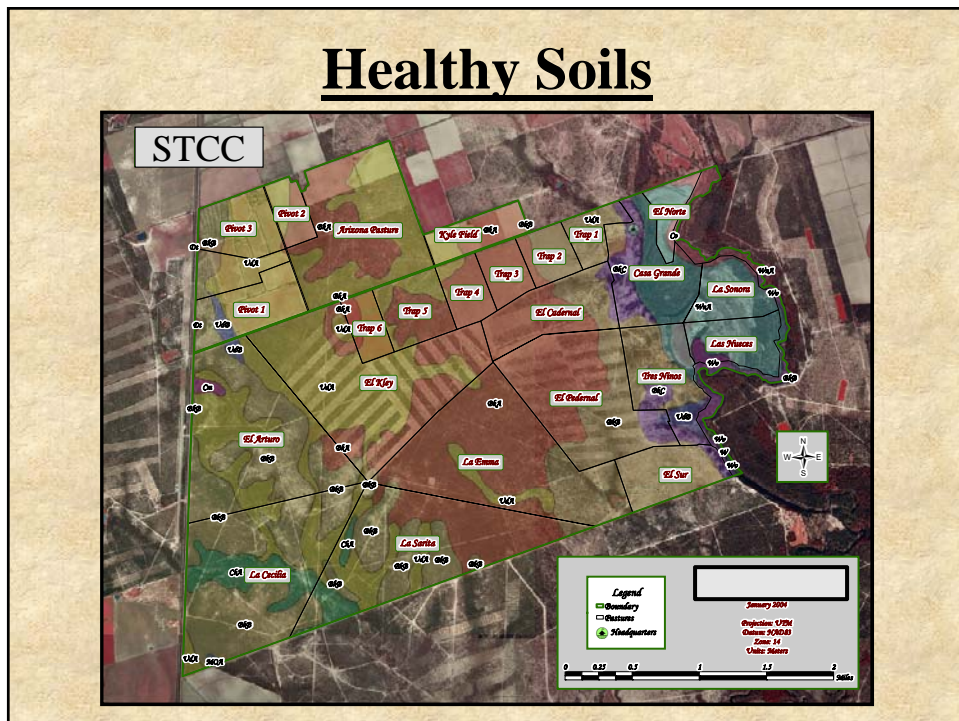
**Three items necessary for success:**

- 1. Planning – arm yourself with knowledge to know where you are going**
- 2. Diligence – to carry out the work**
- 3. Flexibility – to adjust for change**









**Healthy Habitat = Biologically Diverse**





## Why have a Wildlife Management Plan?

**Outlines a plan of action to enhance wildlife and habitat resources**







## conservationframework.tamu

management results in good habitat for game species such as white-tailed deer and northern bobwhite. Managing for livestock, game, and rare species have the potential to diversify a landowner's income while also promoting healthy rangelands.

This tool allows the user to compare the BMPs for multiple game/non-game species and decide on the best management program for their interests.

Select species to compare • Select practices to compare •

White-tailed deer	Rio Grande Wild Turkey	Northern bobwhite	Black-capped vireo
<b>White-tailed deer</b> <b>Livestock Management</b> Livestock Class Best: Cattle: yearlings Second: Cattle: cow/calf Stocking Rate Best: Light Second: Moderate Deferred Stocking Remove livestock prior to drought conditions Grazing System Rotational: high intensity, low frequency Grazing Exlosures Install at least a 10x10 ft grazing enclosure per habitat type on the property	<b>Rio Grande Wild Turkey</b> <b>Livestock Management</b> Livestock Class Best: Cattle: yearlings Second: Cattle: cow/calf Stocking Rate Best: Light Second: Moderate Deferred Stocking Remove livestock prior to drought conditions Grazing System Rotational: high intensity, low frequency Grazing Exlosures Install at least a 10x10 ft grazing enclosure per habitat type on the property	<b>Northern bobwhite</b> <b>Livestock Management</b> Livestock Class Best: Cattle: yearlings Second: Cattle: cow/calf Stocking Rate Best: Light Second: Moderate Deferred Stocking Remove livestock prior to drought conditions Grazing System Rotational: high intensity, low frequency Grazing Exlosures Install at least a 10x10 ft grazing enclosure per habitat type on the property	<b>Black-capped vireo</b> <b>Livestock Management</b> Livestock Class Best: Cattle: yearlings Second: Cattle: cow/calf Stocking Rate Best: Light Second: Moderate Deferred Stocking Remove livestock prior to drought conditions Grazing System Rotational: high intensity, low frequency Grazing Exlosures Install at least a 10x10 ft grazing enclosure per habitat type on the property









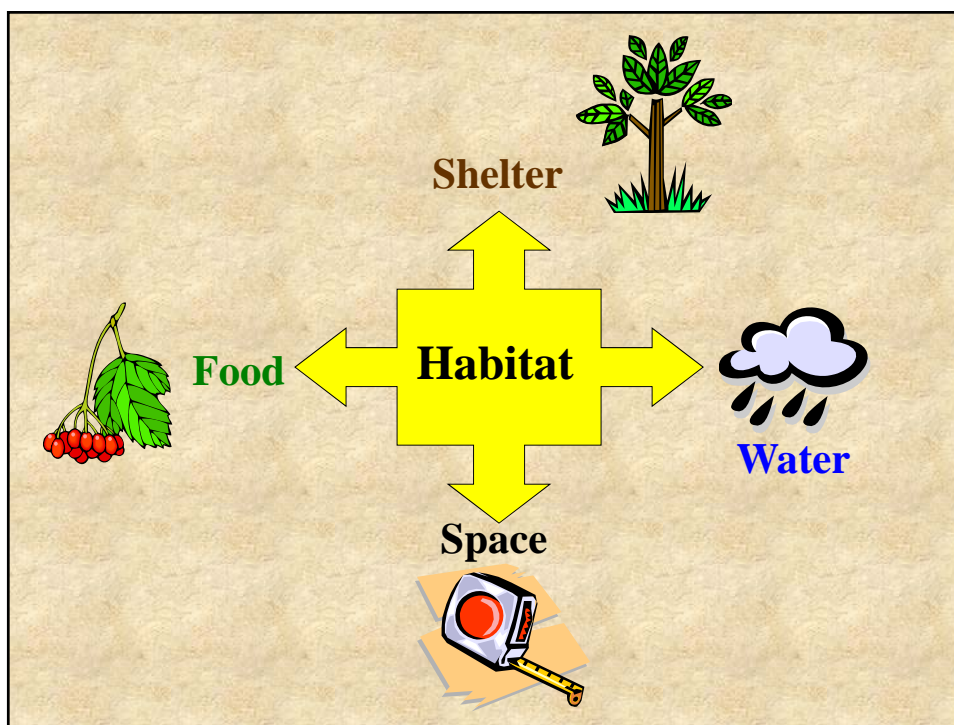
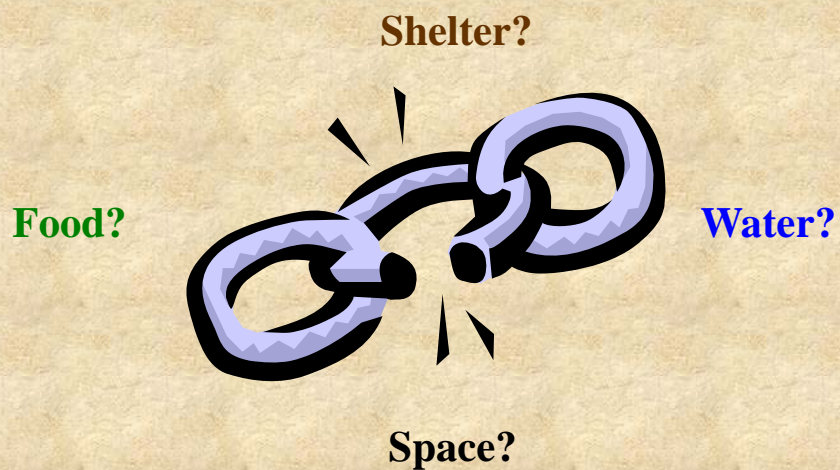








## What's Your Weakest Habitat Link?



If I am a good land steward...



## Main Tools in Habitat Management

- Ax
- Cow
- Plow
- Fire
- Gun





If we are smart...



If we are smart...



If we are smart...





If we are smart...



**Every mouth  
comes at a  
cost.  
Numbers  
must be  
better  
managed.**



If we are smart...



## Grazing Strategies

- Stocking rate (light, moderate, heavy)
- Cow/calf or stockers
- Rotational grazing systems





If we are smart...then we will see the  
benefits of ecosystem services

- A. Clean air
- B. Clean water
- C. Outdoor recreation



## Usable Space





If we are smart...then we teach the next generation how to appreciate all agricultural resources

