Sage Ranch, Idaho



North-West Pasture

Mix of bluebunch wheatgrass and crested wheatgrass. Produces about 1,100 lbs/acre of forage with a proper use of 50%

Headquarters Pasture

Native bunchgrasses (60%), Forbs (35%), and native shrubs (5%). Produces about 750 lbs/acre of forage with a proper use of 40%

Southside Pasture

Bunchgrasses (50%), Forbs (30%), and native shrubs (20%). Produces about 600 lbs/acre of forage with a proper use of 30%

Stocking Rate Calculations Worksheet

Stocking rate is the balance between forage supply and forage demand. For the Sage Ranch, we need to calculate both to determine if the current stocking rate is appropriate for the ranch. This worksheet (and the description of the ranch) will guide you through the process. We will start by calculating the forage supply for each pasture, then calculate the forage demand of the ranch, and finally, use those numbers to determine if our stocking rate is okay or if we need to change it (increase or decrease). Follow the step-by-step guide for the North-West Pasture and then do it for the Headquarters and Southside Pasture. *Note: at the Skill-a-thon, you will be allowed to use a non-scientific calculators!*

	FORAGE SUPPLY		FORAGE DEMAND	
North-West Pasture 280 acres (ac) To calculate forage demand, you will need the following numbers from the information provided: To calculate forage demand, you will need the following numbers from the information provided: Size of pasture: acres How much forage is produced: lbs/acre of forage Proper use: % Step 1: Calculate the total amount of forage (supply) in the pasture (multiple the size of pasture by how much forage it produces) lbs/acr = lbs of forage Step 2: Calculate the forage supply for the livestock (multiple the forage calculated above by the proper use percentage) lbs of forage X % = lbs of available forage. Step 3: Convert the forage supply to AUMs (Remember that 1 AUM = 750 lbs) lbs of available forage / 750 lbs = AUMs	Headquarters Pasture 240 acres • Size of pasture:acres • How much forage is produced: lbs/acre of forage • Proper use:% Use the space below to calculate the available forage for the Headquarters Pasture	Southside Pasture 480 acres 	To calculate forage demand, you will need the following numbers from the information provided: • Number of cows at the ranch:	
Total forage available for livestock grazing at the Sage Ranch (add together forage supply for each pasture) Total forage demand at the Sage Ranch Forage supply = pounds, which is AUMs Forage demand = pounds, which is AUMs				

Stocking Rate Calculations Worksheet

Stocking rate is the balance between forage supply and forage demand. For the Sage Ranch, we need to calculate both to determine if the current stocking rate is appropriate for the ranch. This worksheet (and the description of the ranch) will guide you through the process. We will start by calculating the forage supply for each pasture, then calculate the forage demand of the ranch, and finally, use those numbers to determine if our stocking rate is okay or if we need to change it (increase or decrease). Follow the step-by-step guide for the North-West Pasture and then do it for the Headquarters and Southside Pasture. *Note: at the Skill-a-thon, you will be allowed to use a non-scientific calculators!*

FORAGE SUPPLY			FORAGE DEMAND
<pre>North-West Pasture 280 acres (ac)</pre>	Headquarters Pasture 240 acres • Size of pasture:240 acres • How much forage is produced: 750lbs/acre of forage • Proper use:40 % Use the space below to calculate the available forage for the Headquarters Pasture Answer: 240 acres X 750 lbs X 40% = 72,000 pounds OR 96 AUMs grazing at the Sage Ranch (add together forage supp	Southside Pasture 480 acres . Size of pasture:480acres . How much forage is produced: 600lbs/acre of forage . Proper use:30 % Use the space below to calculate the available forage for the Southside Pasture Answer: 480 acres X 600 lbs X 30% = 86,400 pounds OR 115 AUMs	To calculate forage demand, you will need the following numbers from the information provided: • Number of cows at the ranch: _180
Forage supply =312,400 pounds, which is416 AUMs Forage demand =243,000 pounds, which is			