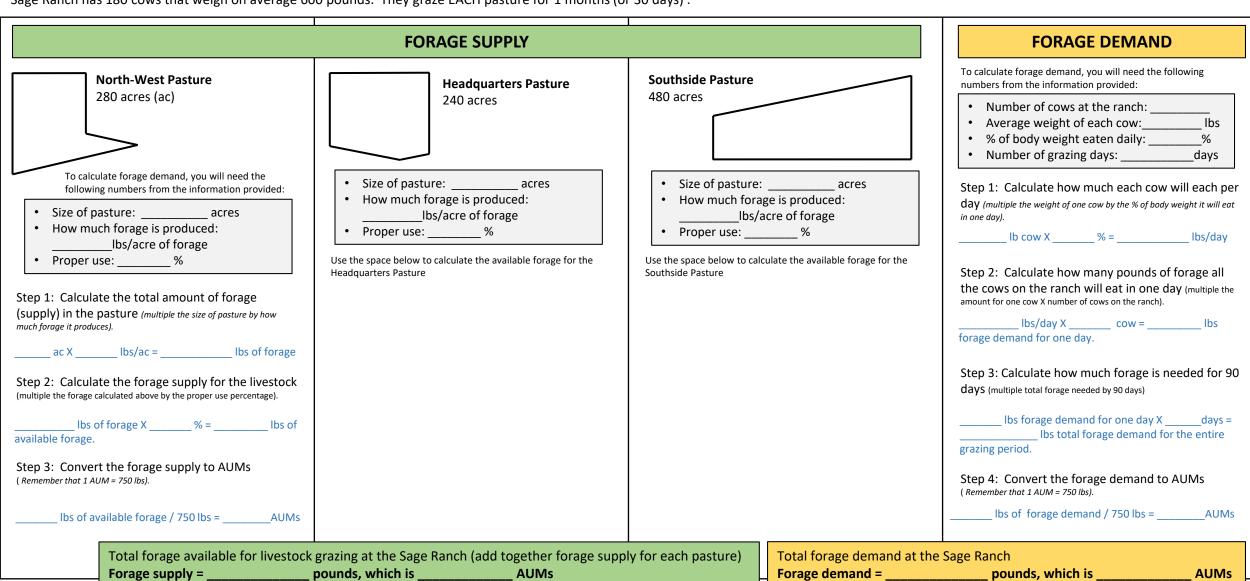
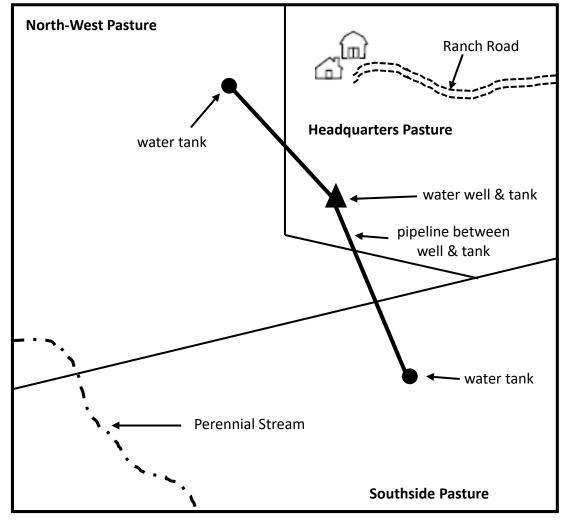
# **Stocking Rate Calculations Worksheet**

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. To calculate forage demand you will need to know what types of animals are grazing, the size of the animals, and the grazing period (or number of days they spend on the ranch). The Sage Ranch has 180 cows that weigh on average 600 pounds. They graze EACH pasture for 1 months (or 30 days).



# 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**

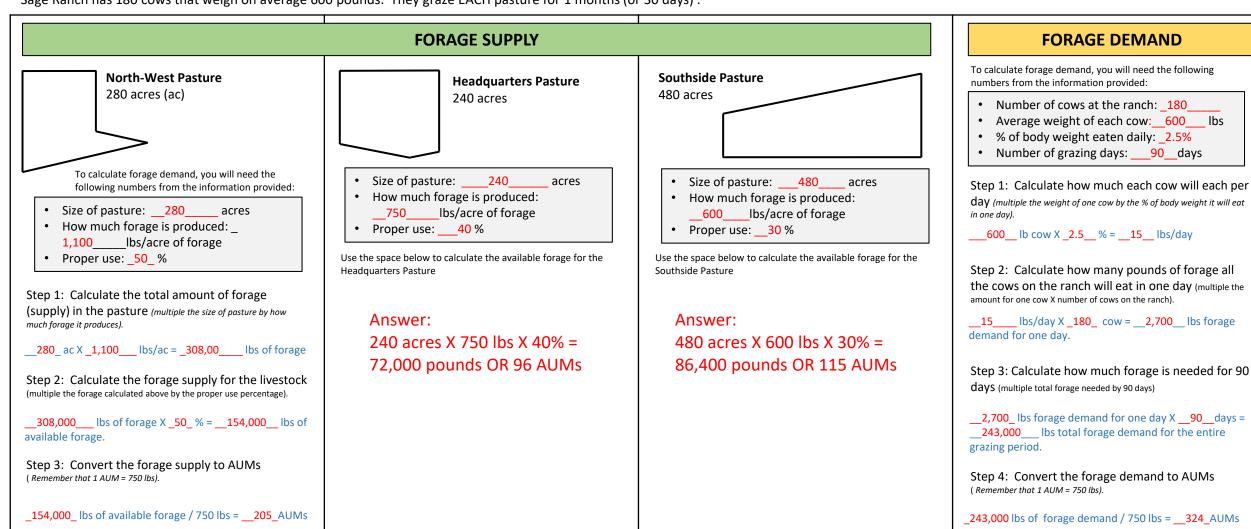
Native bunchgrasses (60%), Forbs (35%), and native shrubs (5%). Produces about 750 lbs/acre of forage with a proper use of 40%

#### **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**

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Total forage available for livestock grazing at the Sage Ranch (add together forage supply for each pasture)

Forage supply = 312,400 pounds, which is 416 AUMs

Total forage demand at the Sage Ranch

Forage demand = \_\_\_243,000\_\_\_\_ pounds, which is \_\_324\_\_\_\_ AUMs