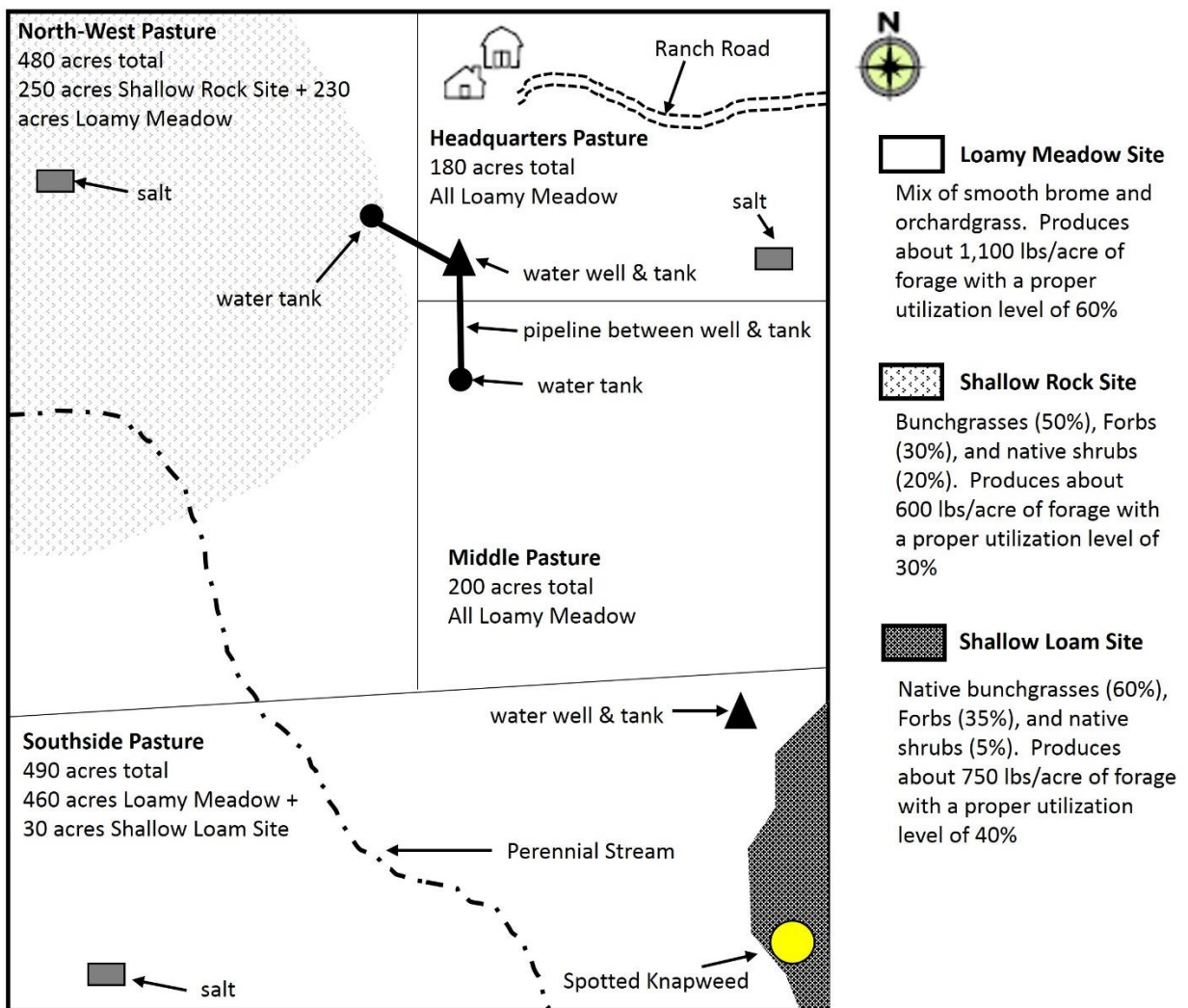


**2017 Idaho State Rangeland Assessment CDE
Part 5: Grazing Management Scenario**

This map depicts a 1,350 acre ranch near Burley, Idaho. During the summer, the landowner buys 450 stocker steers to graze the forage on his ranch to reduce herbaceous fuels. He buys steers that weigh 450 pounds (0.45 AUE) on May 1st, and sells the steers when they weigh 600 pounds (0.6 AUE) on August 15th. He assumes the steers eat about 2.5% of their body weight each day. A rest rotation grazing system is currently used, where a different pasture is rested each year (in 2017 the Headquarters Pasture is rested). Most of the ranch is in good condition, however, there is a 2 acre patch of spotted knapweed in the Southside Pasture. The weeds make the forage unavailable in this area, so the steers avoid this patch.



Part 5 – Stocking Rate and Management Recommendations

Supply of usable forage = 640,800 pounds AND 854.4 AUMs

Forage demand = 631,969 pounds AND 843 AUMs

Determine if the stocking rate is appropriate for the site. You must show your work in order to receive full credit.

Decrease Stocking Rate Increase Stocking Rate Keep Rate the Same

Supply of Usable Forage: (587400 + 45000 + 8400 = 640,800 lbs supply)

- Loamy Meadow Site:
 $230 + 200 + 460 = 890$ acres X 1100 lbs/ac X 60% proper utilization = 587,400 lbs
- Shallow Rock Site:
 250 acres X 600 lbs/ac X 30% proper utilization = 45,000 lbs
- Shallow Loam Site:
 30 acres – 2 acres of Spotted Knapweed = 28 ac X 750 lbs/ac X 40% proper utilization = 8,400 lbs

Supply AUMs:

- $640,800$ lbs/750 lbs = 854.4 AUMs

Forage Demand:

- 450 steers X 525 lbs average weight X 2.5% intake per day X 107 days = **631,969 lbs demand**

Demand AUMs:

- $631,969$ lbs/750 lbs = 842.6 AUMs

Choose the correct management activities that apply to improve the site

Yes | No

- Defer from spring grazing
- Rest from grazing for a growing season
- Install a rotation grazing system
- Add or revise fencing
- Develop additional water sites (there is plenty of water available in each of the pastures and there's no explicit note that says the stream is degraded).
- Control brush/trees and/or noxious weeds
- Seed or interseed with adapted species
- Reduce human recreation activities on site
- Manage for endangered species
- Change salt locations (The salt blocks are already away from the water sources)