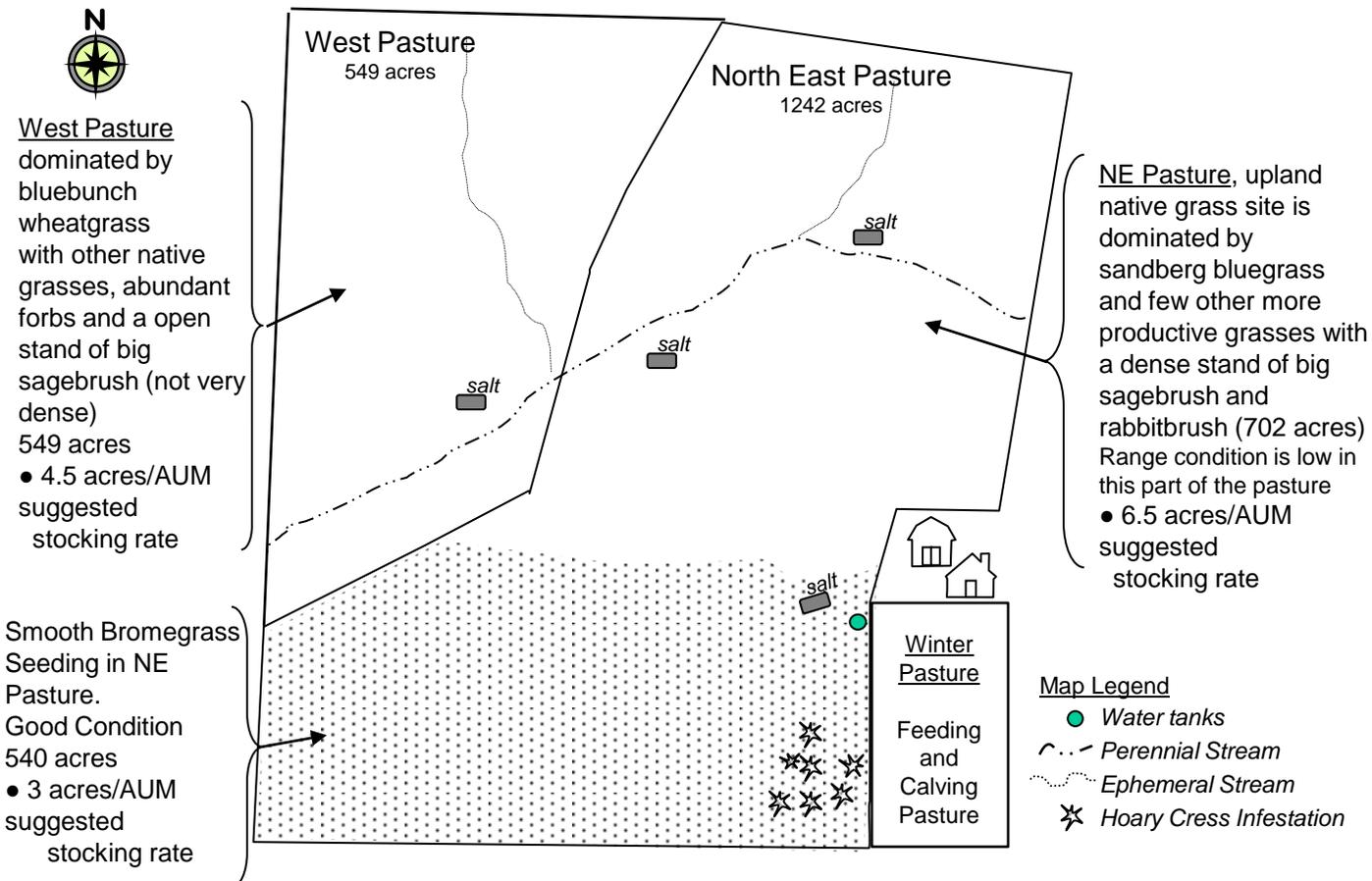


Western National Rangeland Assessment Event Management Scenario- 2010 (Summer Workshop)

This map depicts a small ranch near Montpelier, Idaho that includes pastures of deeded land grazed in the spring and fall. This ranch also has a grazing permit with the US Forest Service that is grazed in the summer. The ranch is generally managed with a herd of 80 cows (1.1 AUE or 1,100 pounds) which are held in the Winter Pasture and fed hay through the winter. The cows have calves in March while in the Winter Pasture. Bulls are leased and cows are bred while they on the summer Forest Allotments. The basic grazing plan is as follows.

- The North East Pasture is grazed from April 1st through June 15th. Then, the cattle are moved to the Forest Service Allotment.
- When the cattle are moved off the Forest Allotment they return to the ranch where the calves are weaned and taken off the ranch. The cows graze the West Pasture for about 2 months (from September 15th through November 15th).
- Then cattle are moved back to the North East Pasture where they graze for about one more month (till December 15th).
- During the winter (December 15 through April 1) cattle are fed hay in a pasture just south of the Ranch Headquarters.



Stocking Rate and Management Recommendations (90 points)

Supply of usable forage = 307,500 pounds OR 410 AUMs (20 pts)

Forage demand = 363,000 pounds OR 484 AUMs (20 pts)

** just need pounds or AUMS – this problem is easier to do with AUM's

Determine if the stocking rate is appropriate for the site. (Check appropriate box; 10 pts)

Decrease Stocking Rate Increase Stocking Rate Keep Rate the Same

** Demand is greater than supply so decrease stocking rate

Show Calculations:

Supply = West Pasture: 459 Ac ÷ 4.5 ac/AUM = 122 AUM

NE Pasture (Native): 702 Ac ÷ 6.5 ac/AUM = 108 AUM

NE Pasture (Bromegrass): 540 Ac ÷ 3 ac/AUM = 180 AUM

122 + 108 + 180 = **410 AUM** 750 = **307,500 pounds**

Demand:

• The North East Pasture is grazed from April 1st through June 15.th = **2.5 months**

• The cows graze the West Pasture for about **2 months**

• Then cattle are moved back to the North East Pasture for about **1 more month**

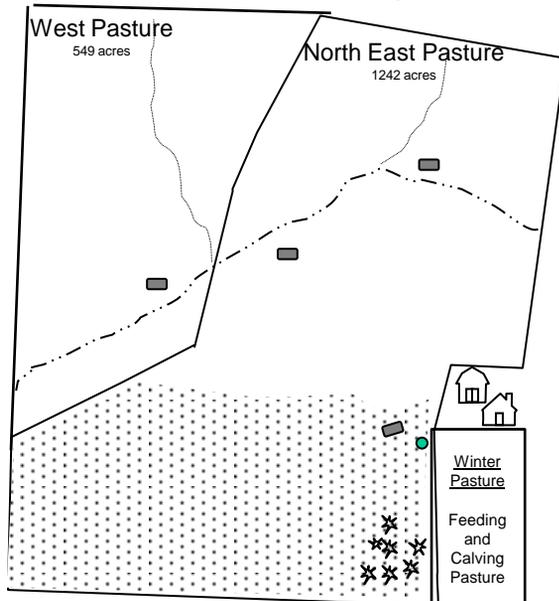
= **Total grazing period = 5.5 months**

80 cows 1.1 AUE = 88 AU 5.5 months = 484 AUM

-OR- Cows @ 1,100 pounds each × daily intake of 2.5% of body weight/day = 27.5 pounds/day

× (5.5 months × 30 days/month or 165 days) = 4537.5 pounds/cow/grazing season

4537.5 pounds/cow × 80 cows = **363,000 pounds**



Choose management activities that apply to this site (Select all that apply; 4 pts each and 40 pts total)

- | | |
|---|---|
| <input type="checkbox"/> Defer from spring grazing | <input type="checkbox"/> Control brush, trees, or weeds |
| <input type="checkbox"/> Rest from grazing for a growing season | <input type="checkbox"/> Seed or interseed with adapted species |
| <input type="checkbox"/> Install a rotation grazing system | <input type="checkbox"/> Reduce human recreation activities on the site |
| <input type="checkbox"/> Add or revise fencing | <input type="checkbox"/> Manage for endangered species |
| <input type="checkbox"/> Develop additional water sites | <input type="checkbox"/> Change salt location |