

Part 1A - Stocking Rate and Management Recommendations (90 points)

A scenario and map is posted on the event site with necessary information.

Do not include calculations. Full credit will be given for correct answers. No partial credit will be given.

Calculate forage supply and demand

Supply of usable forage = **876,180** pounds **AND** **1,168** AUMs 30 pts

Forage demand = **1,284,188 to 1,299,713** pounds **AND** **1,712 to 1,733** AUMs 30 pts

Determining if the stocking rate is appropriate for this site (Check the appropriate box)

10 pts

Decrease Stocking Rate Increase Stocking Rate Keep Rate the Same

Choose the correct management activities that apply to improve this site

20 pts

Select "Yes" for all that apply and select "No" for all that do not.

Yes	No		Yes	No	
	<input checked="" type="checkbox"/>	Defer from spring grazing	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Control brush, trees and /or noxious weeds
<input checked="" type="checkbox"/>		Rest from grazing for a growing season	<input checked="" type="checkbox"/>		Seed or interseed with adapted species
	<input checked="" type="checkbox"/>	Install a rotation grazing system		<input checked="" type="checkbox"/>	Reduce human recreation activities on site
<input checked="" type="checkbox"/>		Add or revise fencing		<input checked="" type="checkbox"/>	Manage for endangered species
<input checked="" type="checkbox"/>		Develop additional water sites	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Change salt location

-- **Either answer is correct**

Calculate forage supply

	Acres	lb/ac	Total Lbs	Proper Use %	
Silt Loam	1375	600	825,000	40%	330,000
Loamy	1475	800	1,180,000	45%	531,000
Clay Loam	230	220	50,600	30%	15,180
			Lbs Usable Forage		876,180
			AUMs Usable Forage		1,168

Calculate forage demand

	Cattle		Pronghorn
Calculated in pounds	450	Number of Animals	15
Time (61 Upper+61 Middle +45 Lower)	167	Total Days	45
Average Weight 600 to 780	690	Avg Weight	200
Daily consumption 2.5% Body wt.	17.25	lbs/day	5
Total eaten/year by each animal	2880.75	lbs/year	75
Total eaten/year by all animals	1,296,338	Total Lbs	3,375
Convert lbs to AUMS (1 AUM=750 lbs) =	1,728	Total AUMs	5
Calculated in AUMS	450	Number of animals	15
	0.69	AUE	0.2
AUE * Number of Animals	311	Animal Units	3
Time in Pasture	5.5	Months	1.5
Total AUMs (AU * Months) =	1707.8	Total AUMs	4.5
Convert AUMs to lbs (1 AUM=750 lbs) =	1,280,813	Total Lbs	3375

Total Animal Demand (Yearlings + Pronghorn)	1,712	Total AUMs	1,733
	1,284,188	Total Lbs	1,299,713