

Silvopasture is

Managed mixed land use to produce both forage for grazers and timber/tree crops.

What Silvopasture is NOT

Putting livestock "out in the trees" and leaving them there until they have eaten all the forage, trampled all the seedlings and browsed all your young trees.

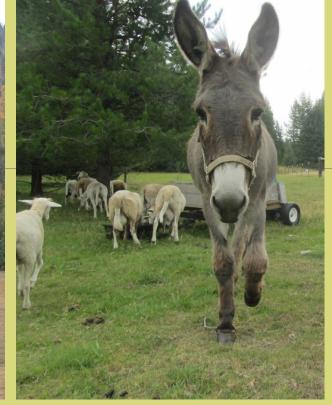
Tess Hahn, Keeper of the Sheep

Bah Bah Blacktail Farm Careywood, Idaho

https://www.bahbahblacktailfarm.com/

















Silvopasture can describe a variety of land uses

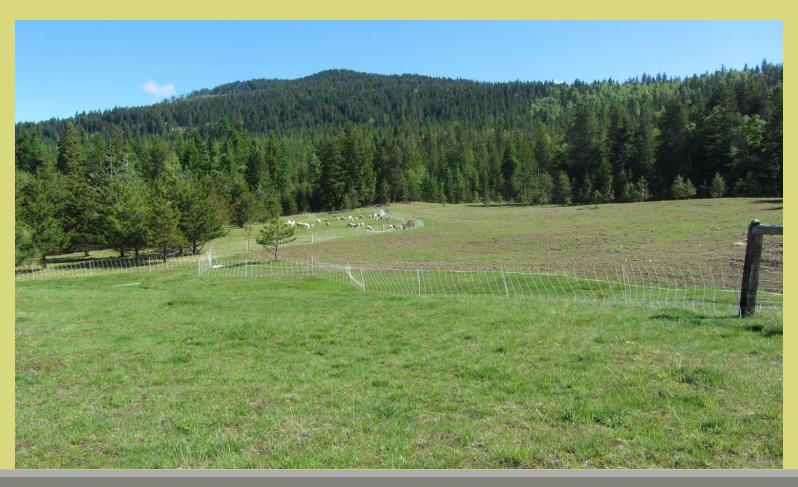
- Uniformly spaced trees with grazing
- Patchy tree spacing with grazing
- Outdoor "living barns" and windbreaks
- Fields converted to food forests
- Edges and alleys of forests used as extra pasture
- Rainwater harvesting landscaping and fire fuel vegetation control

Today my goal is to acquaint you with some factors to consider as you decide how to design your own system.

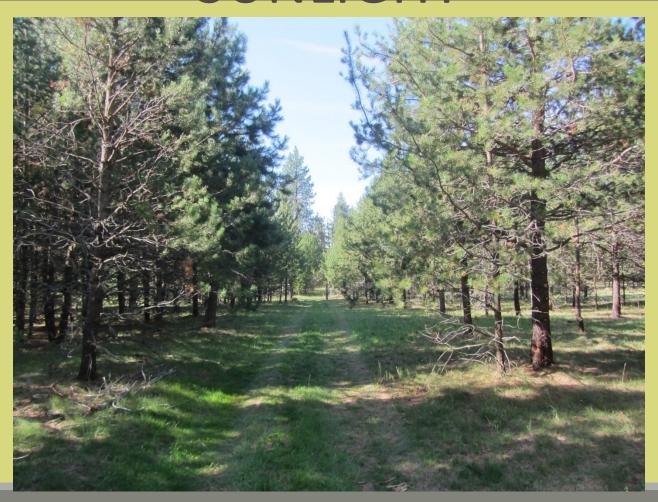
What worked for me and what didn't. How it looks at my place.

Why did farmers create open fields?

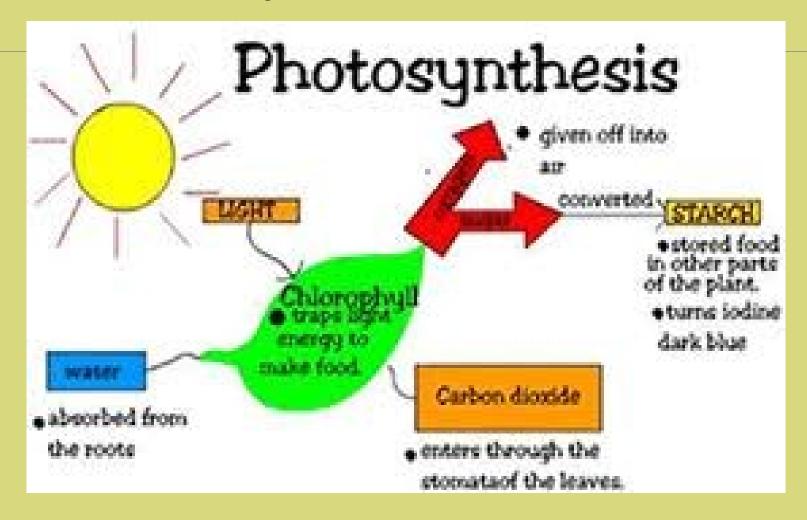
SUNLIGHT



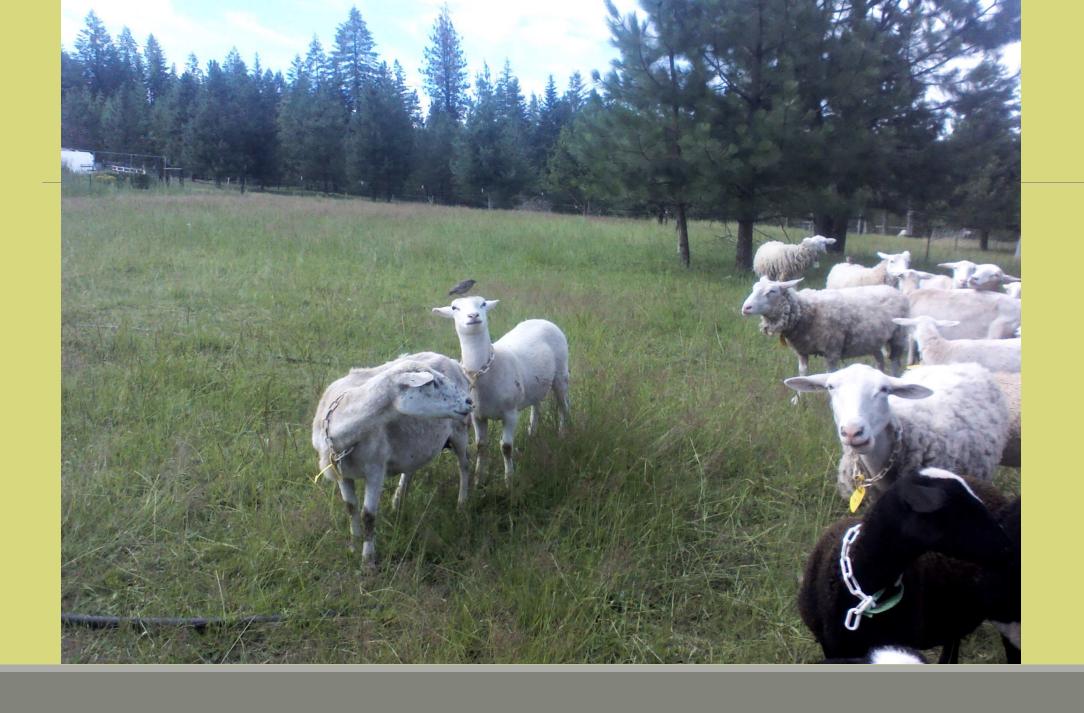
Why do foresters care about canopy coverage? SUNLIGHT



The key to life on Earth



Every acre is 43,000 square feet of solar collector. Make the good use of the sunlight that falls on your land. Maximize grass production & harvest it efficiently with ruminants.



Maximize solar collector leaves on your forage. Make sunlight available to the best trees by removing the competition.

Silvopasture is good for you and for our planet

Multiple layers of production evens out the <u>financial</u> return from the land. Short term & long term. NOT "all or nothing"

Highest amount of carbon sequestration of any ag system. 2-3 times that of managed grazing alone

How so?

Trees create an upper layer storage of carbon in wood together with underground storage in roots and soil. "Drawdown" by Paul Hawkin about regenerative agriculture

Cornell University studied the uses and challenges of silvopasture on small farms. Steve Gabriel, "Silvopasture"

Challenges of Silvopasture

- Fencing establishment and maintenance
- Lack of knowledge of silvopasture management and concern about time requirements
- Lack of knowledge of forage quality and management
- Lack of supportive information from agricultural extension organizations

To Succeed with Silvopasture

- Consider sunlight needs of forage and trees
- Match animals to land type and stage of succession
- 3. Move animals in rotation according to regrowth of the vegetation & keep them OFF long enough
- 4. Match the trees to the site and encourage diversified plant communities
- 5. Stack the management to save time and effort and create synergy of movement



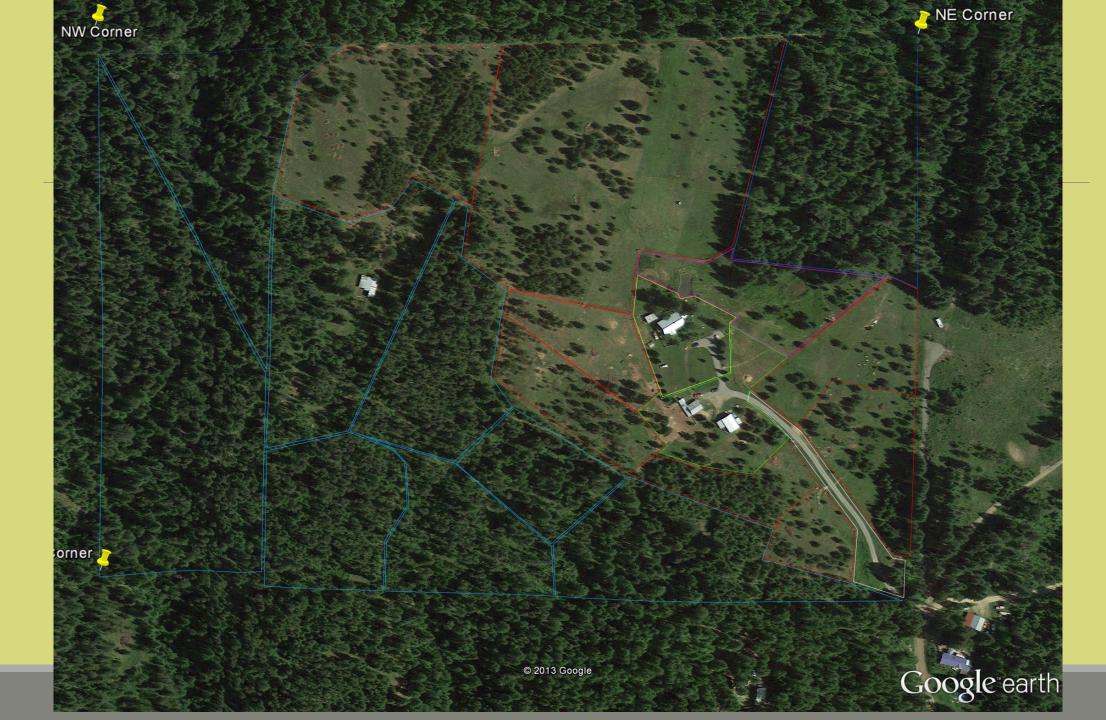
Tess' How to Do It

Start with a Forest stand map & plan

- Trees are less mobile than animals.
- Hydrology, slope and soils create a habitat.
- Consider also the access to site





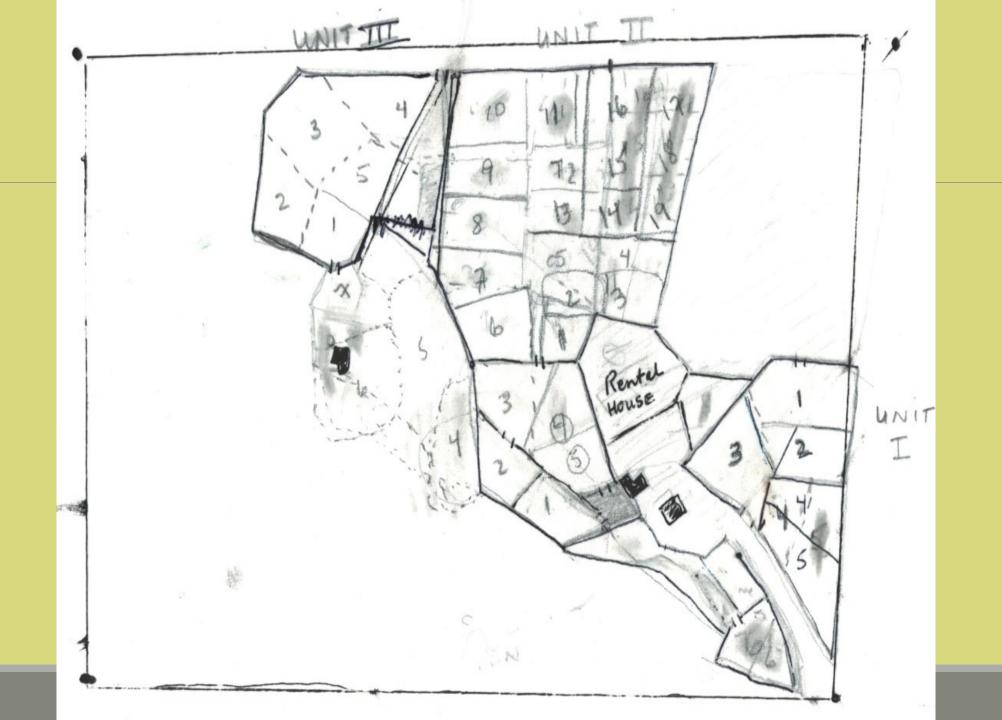


Tess' How to Do It

- Assess your land's various grazing areas
 - Score each pasture area's potential based upon sun, moisture, soil







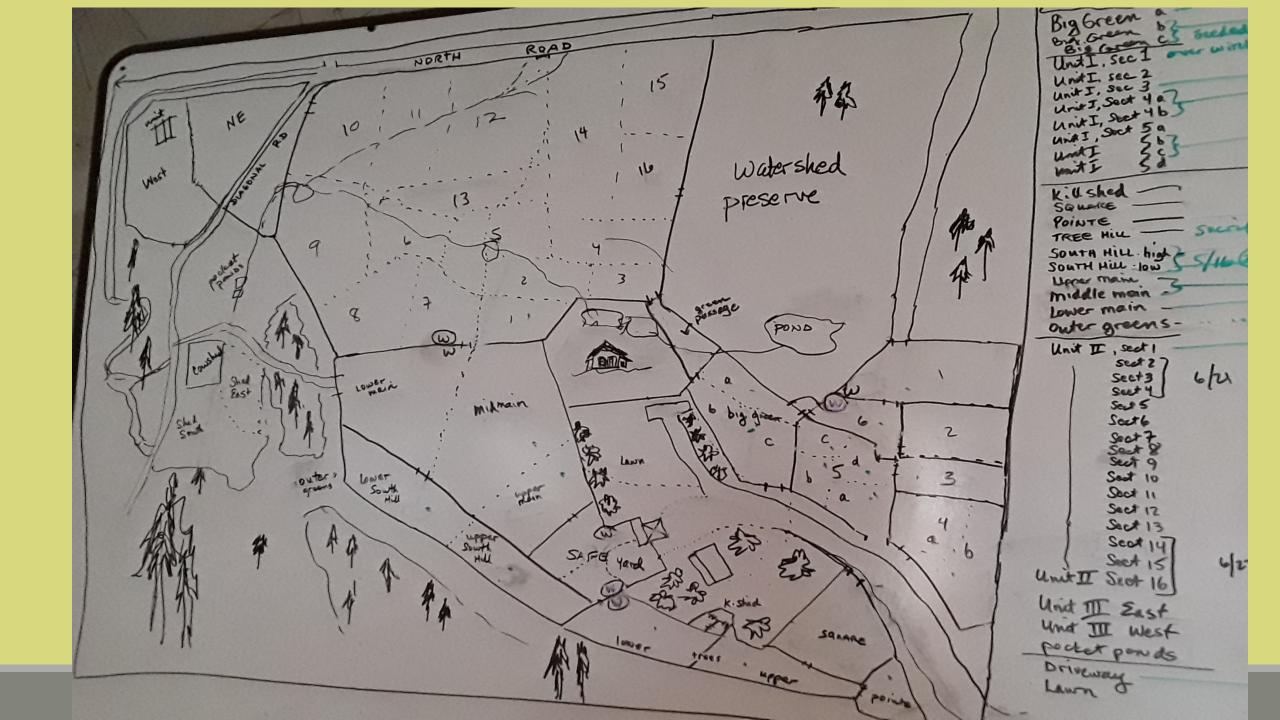
Tess' How to Do It

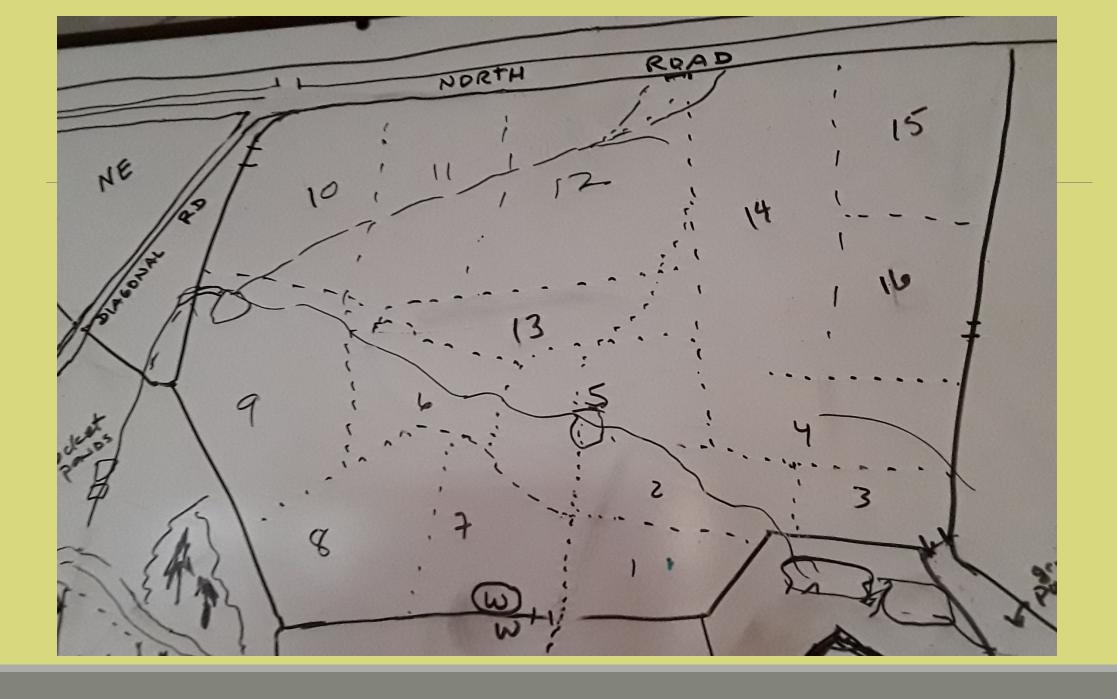
Make a grazing plan

- The sequence and duration of your rotation is based upon the <u>REGROWTH</u> <u>INTERVAL!</u>
- This is the time required to regrow harvestable grass at that particular site.

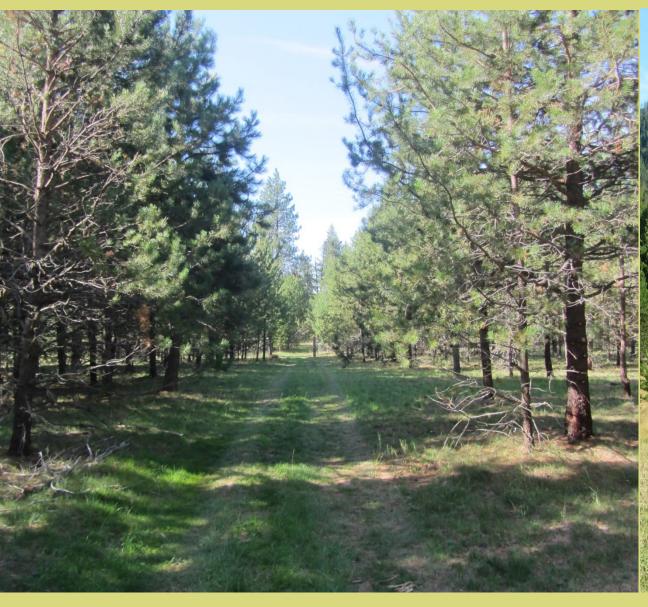


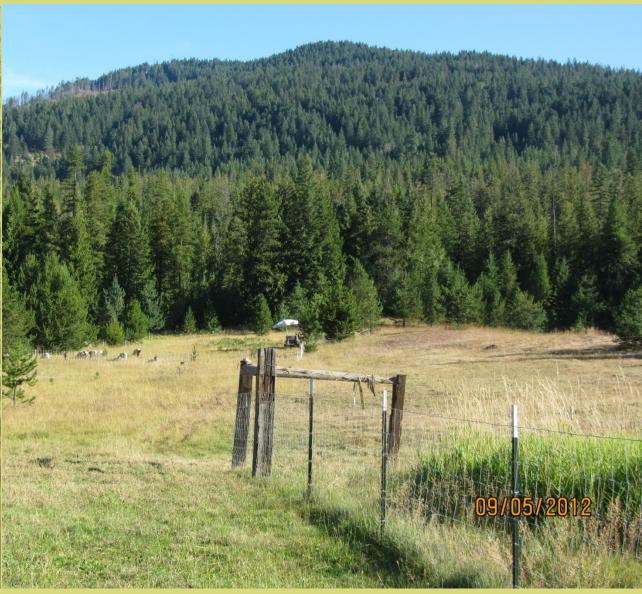






Helpful Tips: Rows and alleys make it easier for fencing and gates. Put gates on high, harder ground to avoid muddy messes.





First, identify the trees to keep. Consider leaving trees a bit denser at first, then, in a second pass, you can weed out the weak ones. Basal DbH 40-60 ideal.

















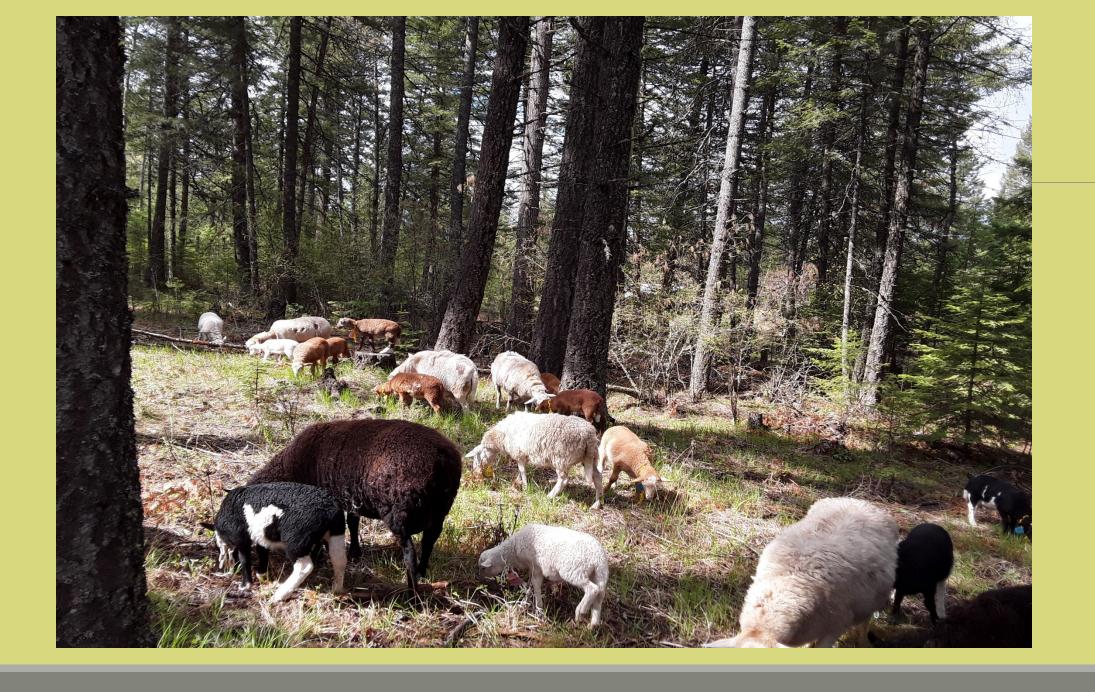


SUMMARY

Start with the plan for your trees, then assess the *regrowth interval* needed for your various grazing areas. Make your grazing plan sequence based on regrowth interval.

Create fenced grazing units and rotate stock thru them on a time schedule that allows recovery and regrowth for the forage.

Use the silvopastures STRATEGICALLY to compliment and facilitate your rotational grazing plan by providing supplemental grazing at key times.



DON'T underestimate the length of time (and money) it takes for conversion of forestland into pasture.

Microbes of soil must change, fungi vs bacterial dominant. Chris Maser in "The Redesigned Forest" talks about the process of woodland conversion/trees into pastures. Usually better to buy what you want.







Good livestock guardian dogs essential









Learn about grasses and forages





	Typical Yearly Grazing Calendar											
	J	F	M	A	M	J.	J	A	8	0	N N	P
Cool-Season Grass Tall Fescue				40	ವ್ಯ		25	ã <u></u> _ 1 €	: <u></u>	ିଲ ୍ଲ		
Cool-Season Legume White Clover				-	R) Y	√ × v × v	₹ > √	, A) >	7 ×,			
Warm-Season Grass Switchgrass					- X	ÇŽ.		¥3				
Warm-Season Legume Alfalfa					,×× ,∢*×,	XXX XXX	%×% %**	X	****	h		
Summer Annual Sorghum/Sudan						*	W		必引			
Miscellaneous Forages Corn Stalks										15	\ \^*?	h_{γ}

About Forages

- Tannins in forages can reduce bloat and are anti-parasitic
- High tannin forages useful to include:
 - Birdsfoot trefoil
 - Lespedeza
 - Sainfoin
 - Chicory
 - small burnet
 - Willow
 - Poplar
 - Mulberry
 - black locust





LIVESTOCK GRAZING GUIDELINES FOR CONTROLLING NOXIOUS WEEDS IN THE WESTERN UNITED STATES



Jason C. Davison

Forage and Alternative Crops Specialist University of Nevada Cooperative Extension

Ed Smith

Natural Resource Specialist University of Nevada Cooperative Extension

Linda M. Wilson Invasive Plant Ecologist Plant, Soil and Entomological Sciences University of Idaho



University of Nevada Cooperative Extension University of Idaho College of Agricultural and Life Sciences

Western Region

EB-06-05 A WESTERN REGION SUSTAINABLE AGRICULTURE, RESEARCH, AND EDUCATION PROJECT

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