	Estimating Forage Production (lbs/acre) Northwest Wyoming (Teton County) Foothills & Mtns. West - 15 to 19" Precipitation Zone	(lbs/acre) County) ecipitation Zon	U			
		Unfavorable Average Favorable Average Year	Average	Favorable	Average Ye	r
Range Site	Plant Community	Year	Year	Year	Year AUM's/ac ac/AUM	ac/AUM
Loamy (Ly)	Mixed Grass-Mountain Big Sage	1400	2,000	2,400	0.6	1.67
	Mountain Big Sage-Bunchgrass	800	1,600	2,200	0.5	2
	Mountain Big Sage-Idaho Fescue	400	950	1,500	0.3	3.33
	Kentucky Bluegrass-Idaho Fescue	200	500	800	0.15	6.67
These are example figu on this hrachure und	These are example figures only (information from the Natural Resources Conservation Service). For site specific production values please contact individuals listed as this hacknee under contact information	For site specific p	roduction vo	ilues please co	ontact individua	ls listed

Calculate your stocking rate.

Once you know your animals' requirements, and your land's production, it is easy to estimate how much forage you have available for your livestock.

You will need the following numbers:

Pasture Size	_acres
Pasture Production	lbs/acre
Animal Requirements _	lbs/day

<u>Example</u>

Assumptions:

30 acres Foothills & Mountains West native range 15-19 inch precip zone Loamy range site Mountain Big Sage-Idaho Fescue Plant Community Predicted plant production: Favorable precip year = 1500 lbs/ acre Average precip year = 950 lbs/acre Poor precip year = 400 lbs/acre

1,200lb horse will eat 36 lbs of dry matter/day

In an average year this pasture will produce 28,500 lbs of forage. (950 lbs/acre x 30 acres)

Half of this must be left in place to keep the plants healthy, and 15% will be lost to other grazers (deer, antelope, rabbits, mice, etc.). So only 35% of this is available to domestic animals.

This pasture has **9,975 lbs of available forage** (28,500 lbs x .35) and can support **one 1,200 lb horse for 277 days** (9,975 lbs / 36 lbs/day) or **three 1,200 lb horses for 92 days** (9,975 lbs / 108 lbs/day).

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Grazing Livestock on Small Acreages





Small Acreage Grazing

As Wyoming county populations grow, more and more people are purchasing and building homes on land parcels ranging in size from one to 40 acres. Many of these buyers desire to own livestock for hobby, pleasure, or 4-H agricultural projects.

Animals grazing on small acreages can create a large number of resource problems that people may not be aware of. These problems include a shortage of grass cover resulting in soil erosion, reduced soil quality, reduced livestock health, and increased weed species. This brochure is designed to help landowners properly care for livestock on small acreages and still conserve soil, protect palatable forages, and preserve water quality.



Which side do you think is more likely to absorb water from rainfall? Which side will let water run off?

What is Overgrazed?

Overgrazed is the term used to indicate a degraded condition and composition of the plant community as a result of grazing impact. Specific indicators of an overgrazed pasture include lack of vegetation, or a shift in types of plants away from those desirable to livestock, weed infestations, compacted soil, stunted plants, reduced plant health, excess runoff and erosion, bare soil, and lack of organic matter.

Natural Resource Problems with Overgrazing

Soil: Overgrazing causes reduced soil fertility rates and low soil infiltration rates. These problems are indicated by excess runoff, erosion, hard and dry soil.

Water: Overgrazing can contribute to water pollution because of increased runoff carrying manure and sediment, and hungry animals spending more time in higher forage producing areas near streams and reservoirs (increasing the likelihood of fecal contamination).

Air: Overgrazing reduces plant cover which can cause air pollution in the form of dust storms.

Plants: Desirable plants in an overgrazed pasture will be negatively impacted. Plants with a higher relative forage value, or those that are palatable to livestock will be grazed more intensely. This will make them less competitive against low quality forage plants and noxious weeds.

How much does your livestock eat every day?

- Forage required by an animal is commonly measured in Animal Units or an AU. It is a way to compare different animals and their feed requirements.
- One mature pleasure horse will eat approximately 35 lbs of grass or hay per day (1.25 AU).
- A 1,000 lb cow not lactating will require approximately 25 pounds of grass or hay per day (1.00 AU).
- A mature ewe or doe goat will eat 4-5 pounds of grass or hay per day (0.2 AU).
- Alpaca requirements are similar to those of sheep.

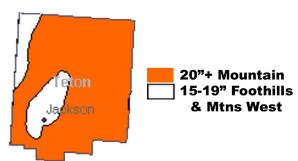
During winter months, or whenever forage quality is decreased, supplemental feed is required. This may be in the form of a complete feed, a grain, or a protein supplement. Replacement feed in the form of hay, may also be required if there is insufficient forage available.

		AU	# Animals
Animal	Weight	equivalent	per AU
Cow	1,000	1.000	1.000
Cow	1,500	1.500	0.667
Heifer	700	0.800	1.250
Steer	700	0.850	1.176
Mature Bull	1,700	1.500	0.667
Milking Cow		1.500	0.667
Working Horse	Mature	2.000	0.500
Saddle Horse	Mature	1.250	0.800
Colt < 2 yrs		0.500	2.000
Sheep	120	0.200	5.000
Goat	Mature	0.170	5.882
Elk	600	0.660	1.515
Mule Deer	125	0.220	4.545
Pronghorn	90	0.170	5.882
Breeding Hogs		0.370	2.703
Slaughter Hogs		0.110	9.091
Layer Chickens		0.002	454.5

How much does your land produce every year?

In order to estimate the amount of forage your land will produce in a year there are 3 things you need to know: ecological site precipitation zone, soil type, and present plant community. With these 3 things you can look at references from the Natural Resources Conservation Service (NRCS) and find an estimate of the forage production capacity of your land. *The Teton County Conservation District or the UW Cooperative Extension Service Office can help you determine your ecological site precipitation zone and provide the NRCS references to you!*

Teton County has two ecological site precipitation zones. They are Foothills and Mountains West with 15-19" of annual precip and High Mountains with 20"+ annual precip.



The next page has an example of what a production table looks like for the Foothills & Mtns. West 15-19" precipitation zone, on loamy soil.