

Step 3. Select Residency Period:

Residency Period _____
Days

Note** One half to 1-day residency periods are recommended for lactating dairy cows. Residency periods of 2 to 7 days may be used for all other livestock. To maximize harvest efficiency, use shorter residency periods.

Step 4. Determine Paddock Size by Major Soil Type:

Paddock size is based on meeting the forage demand of the livestock for the designated residency period.

1	$\frac{\text{Forage Demand}}{\text{Forage Supply}} =$	$\frac{\text{Acres Required/Day}}{\text{Residency Period}} \times$	$\frac{\text{Residency Period}}{\text{Paddock Size (Ac)}} =$	
2	$\frac{\text{Forage Demand}}{\text{Forage Supply}} =$	$\frac{\text{Acres Required/Day}}{\text{Residency Period}} \times$	$\frac{\text{Residency Period}}{\text{Paddock Size (Ac)}} =$	
3	$\frac{\text{Forage Demand}}{\text{Forage Supply}} =$	$\frac{\text{Acres Required/Day}}{\text{Residency Period}} \times$	$\frac{\text{Residency Period}}{\text{Paddock Size (Ac)}} =$	
4	$\frac{\text{Forage Demand}}{\text{Forage Supply}} =$	$\frac{\text{Acres Required/Day}}{\text{Residency Period}} \times$	$\frac{\text{Residency Period}}{\text{Paddock Size (Ac)}} =$	

Step 5. Determine the Number of Paddocks

20 days rest	÷	Residency Period	=	_____ + 1 =	Number of Paddocks
30 days rest	÷	Residency Period	=	_____ + 1 =	Number of Paddocks
45 days rest	÷	Residency Period	=	_____ + 1 =	Number of Paddocks
60 days rest	÷	Residency Period	=	_____ + 1 =	Number of Paddocks
90 days rest	÷	Residency Period	=	_____ + 1 =	Number of Paddocks

Step 6. Estimate the Total Number of Acres Needed: Use the average paddock size of the most prevalent soil types to estimate

Paddock Size	×	Number of Paddocks	=	_____	Acres Needed for 20 days rest
Paddock Size	×	Number of Paddocks	=	_____	Acres Needed for 30 days rest
Paddock Size	×	Number of Paddocks	=	_____	Acres Needed for 45 days rest
Paddock Size	×	Number of Paddocks	=	_____	Acres Needed for 60 days rest
Paddock Size	×	Number of Paddocks	=	_____	Acres Needed for 90 days rest

Note: During spring and early summer, only about 40% to 60% of planned acres will be required for grazing. The remaining grazing acres could be mechanically harvested, planned to be grazed by another class/group of livestock, clipped, deferred for wildlife habitat or stockpiled for extended grazing depending on the goals of the family.

Step 7. Determine the Number of Actual Acres Planned:

Pad Size/	Ac. Needed/day	=	# Days available	
1	÷	=	_____	
2	÷	=	_____	
3	÷	=	_____	
4	÷	=	_____	
5	÷	=	_____	
6	÷	=	_____	
7	÷	=	_____	
8	÷	=	_____	
9	÷	=	_____	
10	÷	=	_____	

11	÷	=	_____
12	÷	=	_____
13	÷	=	_____
14	÷	=	_____
15	÷	=	_____
16	÷	=	_____
17	÷	=	_____
18	÷	=	_____
19	÷	=	_____
20	÷	=	_____

Pasture T Account

Date _____

By Cliff Hawbaker

Pasture/Hay Production	Forage Animal Demand
Pasture _____ acre @ ___ t/ac	Milk Cows - 1000 lb (1) _____ (30 lb /cow /day) X 365 Divided by 2000 = 5.47t
Hay _____ acre @ ___ t/ac	Heifers - 600 lb (.6) _____ (18 lb / heifer/day) X 365 Divided by 2000 = 3.28t
Annuals _____ acre @ ___ t	Calves - < 300 lb (.3) _____ (9 lb / calf/day) X 365 Divided by 2000 = 1.64t
Purchased Hay _____ tons	
Hay on Hand _____	
Total _____	Total _____
Difference _____	

How will the income statement change with planned grazing?

Increase Stay the Same Decrease

Feed costs

Herd Health

Labor, Time Management

Utilities (use them less?)

Fuel

Crop expenses (fertilizer, bedding costs, seed, compaction)

Equipment costs

General repair costs

Interest Paid

Inventory increase (stock density, reproduction, excess hay to sell)

Organic Matter increase (hold soil moisture, more fertility, buy less emergency feed)

Improve Land Value (Fallow Land)

Hunting Leases

Stockpiled grass value

Increase grass cover and diversity (buy less minerals?)

Housing needs for animals

Custom grazing

Conservation Program payments, practices

Marketing advantage (Stackable enterprises on same land base, meat sales)

Ramifications of birthing in sync with nature

Tourism opportunities

Farm Art studio and photography center

Other ?????