

Ruminant Feed Ration Worksheet

(Dairy and Meat Ruminants only)

Instructions:

Complete the blanks in the columns that are highlighted **YELLOW**. If you want to complete the calculations as well and fill in the whole table, please do. If you don't, the certification committee will complete the table, and the verification officer will go through everything with you during the inspection. The units of weight should only be indicated in the box at the top of the tables and should **not** be entered into the body of the chart. If you have your own program or system of tracking the exact amounts and percentages that you feed each of your feeding groups, feel free to submit information from it, if it will cover what is in these tables.

Glossary & explanation of how to fill out these tables:

Feeding Group: Identify each group that receives a different feed ration (ie: Milking cows, unbred heifers, calves 6-12 months, bulls, feedlot yearlings, ewes, lambs, etc...)
DMD (Dry Matter Demand): The amount (weight) of dry matter (feed with moisture weight removed) each animal in a feeding group requires each day. See tables 1&2 for averages. More precise information is readily available. You SHOULD know what the DMD of each of your animal groupings is.
DM content of this feed type: Record the percentage of dry matter in the feed type (see table 3 for averages, or have your feed tested to determine DM content)
Feed Ration: The total weight of each feed type given to that feeding group every day (could also be a week, or any period throughout which rations remain unchanged).
DM in feed: This is the weight of the dry matter in each feed type daily ration. Total Feed (Kg/lb) multiplied by (X) DM Content of this feed type (%)
% of Ration: This is the percentage of the Total DM fed that is made up by the DM of this one feed type: (ie Hay 20%, silage 65%, grain 15% ...)
Total DM Fed: The total amount of dry matter fed per day, calculated by adding up all of the DM in Feed columns.
Corn Silage: CAN 32.310 6.4.3 h) states that ensiled corn shall be considered 40% grain 60% forage unless there is an analysis showing something different. Fill in 40/60 here or another ratio if you have an analysis showing something different.

Dry Matter Demand Reference Tables (Source US National Research Council, Washington DC, 2001):

Table 1: Dairy Cows		
Average Milk Production Per Day	Small Breed DMD 900lb – 1200lb (408 kg – 544 kg)	Large Breed DMD 1200 lb – 1400 lb (544 kg – 635 kg)
35 lbs (15.9 kg)	30 lbs (13.6 kg)	34 lbs (15.4 kg)
40 lbs (18.1 kg)	31 lbs (14.1 kg)	36 lbs (16.3 kg)
45 lbs (20.4 kg)	33 lbs (15.0 kg)	37 lbs (16.8 kg)
50 lbs (22.7 kg)	35 lbs (15.9 kg)	39 lbs (17.7 kg)
55 lbs (24.9 kg)	36 lbs (16.3 kg)	40 lbs (18.1 kg)
60 lbs (27.2 kg)	38 lbs (17.2 kg)	42 lbs (19.1 kg)
65 lbs (29.5 kg)	40 lbs (18.1 kg)	43 lbs (19.5 kg)
70 lbs (31.8 kg)	42 lbs (19.1 kg)	45 lbs (20.4 kg)
75 lbs (34.0 kg)	43 lbs (19.5 kg)	46 lbs (20.9 kg)
80 lbs (36.3 kg)	45 lbs (20.4 kg)	48 lbs (21.8 kg)
Table 2: Ruminant Groups: Dry Matter Demand as a Percentage of Body Weight		
Milking Sheep		3.65%
Sheep (weaned, slaughter or replacement stock)		3.30%
Milking Goats		4.00%
Goats (weaned, slaughter or replacement stock)		2.25%
Dry Cows		1.80%
Heifers (bred or unbred)		2.50%

Table 3: Average Dry Matter Content of common Livestock feeds (Source: CCOF, Santa Cruz, 2015)
Alfalfa/Grass Hay 85%
Barley/Oat/Rye Grain: 90%
Barley/Oat Hay/Straw: 90%
Canola Meal: 90%
Corn Earlage/Coblage: 76%
Corn Grain whole 88%
Corn Feed pellets: 91%
Grass Hay: 88%
Grass Silage: 35%
Alfalfa/Canola pellets: 88%
Dairy Ration Pellets: 88%
Alfalfa Hay: 88%
Alfalfa Silage 30%

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Sheet #1 of 2 – Grazing Season Rations

Farm Name: _____

Client Number 16- _____

100% of forage consumed during the grazing season is from grazing. **Skip to Sheet #2 of 2.**

Grazing Season start date: _____				Grazing season end date: _____				Period covered by THIS sheet: _____ to _____									
If the grazing season was interrupted by climactic or other factors, give the dates of the period when grazing was unavailable: _____ to _____																	
State the reason for the interruption (i.e. drought, flood): _____																	
Units of weight measurement indicated (pounds or kg):				<input type="checkbox"/> pounds				<input type="checkbox"/> kg									
Feed Type:				Hay <input type="checkbox"/> n/a		Corn Silage <input type="checkbox"/> n/a		Silage <input type="checkbox"/> n/a		Grain <input type="checkbox"/> n/a							
						% Grain	% Silage										
Dry matter content of this feed type: (in percentage)				_____		_____		_____		_____							
Feeding Group ²	Avg. # animals	Avg. weight per	DMD	Dry Matter fed			Dry Matter fed			Dry Matter fed			Total DM fed		VO Check		
				Feed Ration	DM in feed	% of ration	Feed Ration	DM in feed	% of ration	Feed Ration	DM in feed	% of ration	Feed Ration	DM in feed	% of ration		
				Total DM fed as hay			Total DM fed as corn silage			Total DM fed as silage			Total DM fed as Grain				

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Sheet #2 of 2 – Non-grazing Season Rations

Non-Grazing Season start date: _____				Non-Grazing season end date: _____						Period covered by <i>THIS</i> sheet: _____ to _____							
Units of weight measurement indicated (pounds or kg):				<input type="checkbox"/> pounds <input type="checkbox"/> kg													
Feed Type:				Hay <input type="checkbox"/> n/a			Corn Silage <input type="checkbox"/> n/a			Silage <input type="checkbox"/> n/a			Grain <input type="checkbox"/> n/a				
							% Grain										
Dry matter content of this feed type: (in percentage)				_____			_____			_____			_____				
Feeding Group ²	Avg. # animals	Avg. weight per	DMD	Dry Matter fed			Dry Matter fed			Dry Matter fed			Dry Matter fed			Total DM fed	VO Check
				Feed Ration	DM in feed	% of ration	Feed Ration	DM in feed	% of ration	Feed Ration	DM in feed	% of ration	Feed Ration	DM in feed	% of ration		
				Total DM fed as hay		Total DM fed as corn silage		Total DM fed as silage		Total DM fed as Grain							
Non-Grazing Season forage intake:				Grazing Season forage intake			% grazed										