IDF Carbon Footprint Verification Tool

On Farm Analysis

This includes all activities up to the farm gate

	Response	Status	Guidance
How has the **Functional Unit** been calculated for farm gate emissions? **(§4.3.1)**			
Functional Unit Volume	1. Milk Collected / Processed		
Energy Content (Mcal / kg)	6. FPCM calculated directly		
FPCM (kg)	3. Milk x (0.1226 x Fat% + 0.0776 x TP% + 0.2534)		*Using Crude Protein, good for bovine milk with lactose at 4.85%*
	Milk x (0,116 x Fat% + 0,06 x Total Protein% + 0,337) Based on total protein. Reference: CVB (Centraal Veevoederbureau). 2018. CVB Table Ruminants 2018. CVB.		
How is the **Milk / Liveweight Allocation** calculated? **(§5.4.2)**	1. Biophysical		
The allocation between milk production and liveweight (meat) is a key point of the IDF standard			
What equation is used for the biophysical allocation?	1. IDF 2022		
What data is used?	1. Primary Data		
Are non-replacement calves sold included in LWT exports?	1. Yes		

Use the area below for any additional comments or notes relating to the **Milk / Liveweight Allocation**

Are **Enteric Emissions** included? **(§5.2.1)**	1. Yes		
Methane emissions from the digestive process.			
Does this include on farm replacements and breeding stock?	1. Yes		
How are the emissions calculated?	2.1 IPCC Tier 2 - Country Specific		
Please provide a reference for the specific model used			
What data is used for the calculation?	1. Primary Data Only		

Use the area below for any additional comments or notes relating to the **Enteric Emissions Calculation**

Calculation based on farm-specific DE% calculated from farm-specific rations.

Are emissions from **Manure Management** included? **(§5.2.2)**	1. Yes		
This includes all emissions related to the storage and treatment of manure			
How are the emissions calculated?	2.1 IPCC Tier 2 - Country Specific		
Please provide a reference for the specific model used			
What data is used for the calculation?	1. Primary Data Only		
Does manure leave the farm?	2. No		

Are emissions from **Homegrown Feed Production** included?	1. Yes		
This includes all on farm feed production, including pasture and crops			
What data is used?	1. Primary Data		

Included Activities / Emissions

N_2O emissions from soil (§5.2.3)	1. Yes		
Emissions from manure deposited or used as fertiliser (§5.2.3)	1. Yes		
How are N2O emissions calculated? (§5.2.3)	2. IPCC Tier 2		
CO_2 emissions from lime use on soils	1. Yes		
Fuel and energy use	1. Yes		
Production of fertilisers	1. Yes		
Transportation of fertilisers	1. Yes		
Capital goods	3. Not Relevant		*Including emissions associated with Capital Goods is optional*
Land use change (§5.5.1)	4. Not Relevant		*Provide evidence supporting omitting this element*
Harvesting loss and crop residue emissions	1. Yes		
Is any feed sold / exported off the farm?	1. Yes		
How are emissions allocated to these? (§5.4)	3. Other		*Please justify the method used*

Use the area below for any additional comments or notes relating to **Homegrown Feed Production**

N2O: IPCC Tier 1/2 (Flemisch climate conditions: wet climate)

Allocation of exported/sold feed: mass allocation

Which emissions from **Peat Soils** are included? **(§5.5.4)**	1.1 Yes - CO2 and N2O only		
This includes emissions from drained organic/peat soils on the farm			
How are these reported?	2. Reported separately, all sources		*0*

Use the area below for any additional comments or notes relating to emissions from **Peat Soils**

Are emissions from **Imported Feed** included? — 1. Yes

This includes all feed material imported from outside the farm boundary

What data is used? — 4. General Database Values

Included Activities / Emissions

N_2O emissions from soil (§5.2.3)	1. Yes	
CO_2 emissions from lime use on soils	1. Yes	
Fuel and energy use	1. Yes	
Production of fertilisers	1. Yes	
Emissions from peat soils (§5.5.4)	1. Yes - All gases (CO2, CH4, N2O)	
Capital goods	1. Yes	
Transportation of feed to farm	1. Yes	
Land use change… (§5.5.1)	2. Yes - Included in the main value	*Preferably land use change is reported separately*
Harvesting loss and crop residue emissions	1. Yes	

What co-product allocation method has been used? (§5.4.1) — 2. Economic

What GWP100 conversion factors have been used? (§6.1) — AR6 (CH4=27 & N2O=273)

Use the area below for any additional comments or notes relating to emissions associated with **Imported Feed**

Are emissions associated with **Imported Animals** included? — 2. Yes - Footprint of incoming animals captured

This includes ANY purchased animals or replacements reared off the farm

What data is used? — 4. General Database Values

Included Activities / Emissions

Enteric Fermentation (§5.2.1)	1. Yes	
Manure Management (§5.2.2)	1. Yes	
Feed Production (§5.2.4)	1. Yes	
Emissions from Peat Soils (§5.5.4)	1. Yes - All gases (CO2, CH4, N2O)	
Land Use Change (§5.5.1)	1. Yes	
Transport to Farm	3. Not Relevant	*Provide evidence supporting omitting this element*

What GWP100 conversion factors have been used? (§6.1) — AR6 (CH4=27 & N2O=273)

Use the area below for any additional comments or notes relating to emissions associated with **Imported Animals**

Are emissions of **Cattle Off Farm** included? — 3. Yes - off-farm stock included in farm values

This is to ensure the emissions associated with any stock spending time off the farm (e.g. dry cattle managed elsewhere) are still captured in the analysis

Included Activities / Emissions

Transport from and to Farm	3. Not Relevant	*Provide evidence supporting omitting this element*

Use the area below for any additional comments or notes relating to emissions associated with **Cattle Off Farm**

Are emissions of **Imported Bedding Materials** included? — 1. Yes

e.g. straw, sawdust or other materials imported as bedding

What data is used? — 4. General Database Values

What co-product allocation method has been used? (§5.4.1) — 2. Economic

What GWP100 conversion factors have been used? (§6.1) — AR6 (CH4=27 & N2O=273)

Use the area below for any additional comments or notes relating to emissions associated with **Imported Bedding Materials**

Are **Energy and Milking Parlour Emissions** included? — 1. Yes

Emissions associated with milking and the storage of milk prior to collection

What data is used? — 1. Primary Data

Included Activities / Emissions

Refrigerant Losses (§5.2.4)	3. Not Relevant	*Provide evidence supporting omitting this element*
Capital goods	2. No	*Including emissions associated with Capital Goods is optional*
Electricity (§5.3.1)	2. Yes - Location based	

Use the area below for any additional comments or notes relating to **Energy and Milking Parlour Emissions**

Summary for on farm components

Area	Number of issues	Data Source
Absence of Major Components	0	
Milk / Liveweight Allocation	0	
Enteric Emissions	0	
Manure Management	0	
Homegrown Feed Production	0	
Peat Soils	0	
Imported Feed	0	
Imported Animals	0	
Cattle Off Farm	Absent	
Imported Bedding Materials	0	
Energy and Milking Parlour Emissions	0	