Farmer name			
Farm Code			
Farm herd number			
Data year			
Annual rainfall (mm)			
N deposition (kg/ha)			
Longitude:		**Latitude:**	

Dairy system characterization

Calving pattern	All year round
Milk produced	Manufacturing milk

Total land area	**Area at start of year (ha)**	**Area at end of year (ha)**
Owned land		
Rented land		

Soil type	**Organic matter (%)**	**Sand (%)**	**Silt (%)**	**Clay (%)**
Grassland				
Arable land				
Other (				

Manure spreading	
Slurry (m^3)	
Dirty water (m^3)	
Farmyard manure spread (t)	

Timing of slurry applications	**Nov-Jan**	**Feb-Apr**	**May-July**	**Aug-Oct**
Percentage of slurry applied (%)				

Percentage of dirty water applied (%)				
Percentage of farm yard manure (%)				

Slurry Application techniques	**Splash-plate**	**Band-spreader**	**Trailing shoe**	**Open slot injection**	**Closed slot injection**	**Incorporated within 6 hours**	**Other (**
Percentage of slurry applied (%)							

Slurry/Manure encorporation time after application	**Not Encorporated**	**within 6 hours**	**within 12 hours**	**within 24 hours**	**within 48 hours**
Encorporation (burial) (%)					

Dirty water Application technique	

Annual use of Irrigation	**Area Irrigated (ha)**	**Annual Volume (L)**	**N content of water (g/L)**	**P content of water (mg/L)**
Irrigation				

	Insert name of product						
Farm Chemicals							
Herbicide (litres)							
Pesticide (litres)							
Fungicide (litres)							
Milking machine (litres)							
Bulk tank (litres)							
Disinfectant (litres)							
Other (							
Other (							
Other (							

Silage plastic (kg)	
Maize plastic (kg)	

Liquid organic manure storage	Type of manure	DM%	Indoor/outdoor	Covered (yes/no)	Volume (m^3) Capacity of the tank	Surface area (m^2) Surface area of the tank	Crust present (yes/no)	Acidfied	(if yes, indicate target pH)
Soil water tank									
Slatted floor tank 1									
Slatted floor tank 2									
Slatted floor tank 3									
Open top tank 1									
Open top tank 2									
Open top tank 2									

Straw-manure storage	Type of manure	DM%	Indoor/outdoor	Covered (yes/no)	Surface area (m^2)	Duration of composting (w)
Dungstead						
Straw bedded house 1						
Straw bedded house 1						
Straw bedded house 1						

Typical diet composition over the course of one calendar year on a dry matter basis

Typical diet composition (% DM)	**Grazed grass**	**Grass silage**	**Maize Silage**	**Concentrates**	**Other (**	**Other (**	
DAIRY COWS - Milking							
DAIRY COWS - Dry							
Breeding bulls							
Beef (Suckler) cows							
Replacement heifers (0-6 mths)							
Replacement heifers (7-12 mths)							
Replacement heifers (1-2 years)							
Replacement heifers (>2 years)							
Other cattle (0-6 mths)							
Other cattle (7-12 mths)							
Other cattle (1-2 years)							
Other cattle (>2 years)							

Other livestock (horses, sheep etc.)

White clover

Red clover

Lucerne/Alfalfa

Land use (ha)	Legume content (name of legume)	Legume content (%)	January	February	March	April	May	June	July	August	September	October	November	December
Total Farm area														
Forestry														
Rough grazing/Wetland etc.														
Grassland - Grazing														
Grassland - Grass silage														
Maize Silage														
Other forage crop (														
Other forage crop (														
Other forage crop (														
Catch crops (														
Grain crops for feed (														
Grain crops for sale (														

Cattle (Annualised numbers)	Opening stock	Livestock purchases	Sales and deaths of livestock	Closing stock	Mean Liveweight (kg)
DAIRY COWS - Total					
DAIRY COWS - Milking					
DAIRY COWS - Dry					
Breeding bulls					
Beef (Suckler) cows					
Replacement heifers (0-6 mths)					
Replacement heifers (7-12 mths)					
Replacement heifers (1-2 years)					
Replacement heifers (>2 years)					
Other cattle (0-6 mths)					
Other cattle (7-12 mths)					
Other cattle (1-2 years)					
Other cattle (>2 years)					

Other livestock (horses, sheep etc.)

Where housing part-time each day - multiply the number of cows by the proportion of each day spent housed

Describe the type of housing

Cattle (numbers indoors)	**Type of housing (e.g. cubicles over slatted tanks, cubicled with scraped alley ways etc.)**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**October**	**November**	**December**
DAIRY COWS - Milking													
DAIRY COWS - Dry													
Breeding bulls													
Beef (Suckler) cows													
Replacement heifers (0-6 mths)													
Replacement heifers (7-12 mths)													
Replacement heifers (1-2 years)													
Replacement heifers (>2 years)													
Other cattle (0-6 mths)													
Other cattle (7-12 mths)													
Other cattle (1-2 years)													
Other cattle (>2 years)													

Other livestock (horses, sheep etc.)

Grazing is defined as taking place when grazed grass is the main component of the diet

Where grazing per day is part-time - multiply the number of cows (or other cattle) by the proportion of the day spent grazing

Cattle (numbers grazing)	**Date of start of grazing**	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**October**	**November**	**December**	**Date of start of grazing**
DAIRY COWS - Milking														
DAIRY COWS - Dry														
Breeding bulls														
Beef (Suckler) cows														
Replacement heifers (< 1 year)														
Replacement heifers (>1 year)														
Other cattle (< 1 year)														
Other cattle (> 1 year)														

Other livestock (horses, sheep etc.)

Concentrate purchases	**Year**			**Concentrate (t)**			
Name (describe the concentrate)	**DM%**	**Crude protein (%)**	**P content (%)**	**Opening stock**	**Purchases/ imports**	**Sales/exports**	**Closing stock**
Dairy ration (16% CP)	85	16					
Brewer's grains							
Barley (Rolled)							
Calf starter 26%							

Milk production	January	February	March	April	May	June	July	August	September	October	November	December
Milk sold (L)												
Milk Fat (g/L)												
Milk Crude protein (g/L)												
Milk Lactose (g/L)												
Milk receipts (€)												
Milk price (€/L)												
Fresh milk fed to calves (L)												
Milk replacer fed to calves (kg)												
Milking time (hours per day)												

Collecting yard	January	February	March	April	May	June	July	August	September	October	November	December
Type of collecting yard (scraped, washed or slatted tank)												
Milking time including cows standing in collecting yard (hours/day)												
Timing of cleaning collecting yard after milking (hours/day)												

Mineral fertilizer purchases				Fertilizer (t)			
Name	**N content (%)**	**P content (%)**	**K content (%)**	**Opening stock**	**Purchases/ imports**	**Sales/exports**	**Closing stock**
Urea	46	0	0				
Ammonium Nitrate	34	0	0				
CAN	27.5	0	0				
0-0-50 (Potash)	0	0	50				
10-10-20	10	10	20				

Approximate indication of mineral fertilizer N application practices (including compound fertilizers)

Mineral fertilizer N application (kg N/ha)	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**October**	**November**	**December**
Rough grazing/Wetland etc.												
Grassland - Grazing												
Grassland - Grass silage												
Maize Silage												
Forestry												
Other forage crop (												
Other forage crop (												
Catch crops (												
Grain crops for feed (												
Grain crops for sale (												

Purchases of liming materials				**Lime (t)**			
Name	DM%	Ca content (%)	P content (%)	**Opening stock**	**Purchases/ imports**	**Sales/exports**	**Closing stock**
Ground limestone							
Granulated Lime							

Organic manuse imports to farm				**Organic Manure (t or m^3)**			
Name & unit of measure	DM%	N content (%)	P content (%)	**Opening stock**	**Purchases/ imports**	**Sales/exports**	**Closing stock**
Cattle Slurry (m^3)							
Pig Slurry (m^3)							
Sludge (m^3)							
Cattle manure (t)							
Pig manure (t)							
Poultry manure (t)							

				Forage movements			
Forage Movements	**DM%**	**N content (%)**	**P content (%)**	**Opening stock**	**Purchases/ imports**	**Sales/exports**	**Closing stock**
Grass silage (t)							
Maize silage (t)							
Fodder beet (t)							
Hay (t)							
Straw (t)							
Other forage (							
Other forage (							

Straw used for bedding purposes only

Straw use (kg/hd/day)	**January**	**February**	**March**	**April**	**May**	**June**	**July**	**August**	**September**	**October**	**November**	**December**
DAIRY COWS - Milking												
DAIRY COWS - Dry												
Breeding bulls												
Beef (Suckler) cows												
Replacement heifers (0-6 mths)												
Replacement heifers (7-12 mths)												
Replacement heifers (1-2 years)												
Replacement heifers (>2 years)												
Other cattle (0-6 mths)												
Other cattle (7-12 mths)												
Other cattle (1-2 years)												
Other cattle (>2 years)												

Other livestock (horses, sheep etc.)

Water consumption not including irrigation	Annual
Water use (L)	

Energy consumption	Energy			
Name	Opening stock	Purchases/ imports	Sales/exports	Closing stock
Diesel burned on farm (L)				
Petrol burned on farm (L)				
Oils burned on farm (L)				
Kerosene (L)				
Purchased grid electricity used (kWh)				
Coal (kg)				
Gas (kWh)				

Electricity produced by renewable energy

Electricity from wind (kWh)				
Electricity from Solar PV (kWh)				
Electricity from biogas (kWh)				

Heat produced by renewable energy

Heat from wood (kWh)				
Heat from straw (kWh)				
Heat from biogas (kWh)				

This data is to estimate energy consumption by contractors

Contractor hire	
Pit silage (ha)	
Bale silage (ha)	
Grass mowing/tedding (ha)	
Ploughing (ha)	
Rolling (ha)	
Fertiliser spreading (ha)	
Topping (ha)	
Slurry spreading (ha)	
Slurry agitating (h)	
FYM spreading (ha)	
Cultivating (ha)	
Lime spreading (ha)	
Hedge Cutting (m)	
Hay Baling (no. of bales)	
Digger work (h)	
Winter feeding (h)	
Other (	
Other (	
Other (	

Grassland Reseeding	
Area reseeded (Ha)	
Seeding rate (kg/ha)	
Method of cultivation	
Clover in seed mix (kg/ha)	