AUTOGRASSMILK

DELIVERABLE

Grant Agreement number:	**FP7-SME-2012-314879**
Project acronym:	**AUTOGRASSMILK**
Project title:	**INNOVATIVE AND SUSTAINABLE SYSTEMS COMBINING AUTOMATIC MILKING AND PRECISION GRAZING**
Funding Scheme:	**Research for the benefit of SME associations**
Deliverable Number:	**D3.1**
Deliverable Name:	**Protocol for registration of 'Monitor Farms', data capture and management of data**
Partner responsible:	**VIDENCENTRET FOR LANDBRUG (VFL)**

D 3.1 Protocol for registration of 'Monitor farms', data capture and data management:

Registration and data capture

Jan. 2014.	Registration schemes for generic registering of sustainability indicators for 2013 (on economics, environment and social parameters), sent to partners.
Jan. 2014	Registration schemes for registering sustainability indicators for specific parameters in 2014, sent to all partners.
Apr. 2014	Deadline to receive generic registration schemes for 2013 back from partners.
June 2014	Follow-up on progress in registering specific parameters during 2014.
Aug. 2014	Receive registration schemes on the specific parameters for the first half year of 2014 back from partners.
Aug. 2014	Database for data processing initiated – to facilitate the evaluation of the specific parameters of the registration schemes.
Nov. 2014	Receive registration schemes on the specific parameters for the second half year of 2014 back from partners.
Nov. 2014	Database prepared and made ready for data analysis.
Dec. 2014	Sustainability analysis conducted (Task 3.3) on registration data of monitor farms.
Jan. 2015	Evaluation of generic registration scheme data and presentation of preliminary results.
Feb. 2015	Registration schemes for generic registering of sustainability indicators for 2014 (on economics, environment and social parameters), sent to partners.
Feb. 2015	Registration schemes for registering sustainability indicators for specific parameters in 2015, sent to all partners.
Apr. 2015	Deadline to receive generic registration schemes for 2014 back from partners.
June 2015	Follow-up on progress in registering specific parameters during 2015.
Oct. 2015	Receive registration schemes on the specific parameters for the complete year of 2015 back from partners.
Nov. 2015	Analysis of two years data.
Dec. 2015	Reporting.

Data management.

All registration schemes collected from the monitor farms in the partner countries will be sent to the WP 3 coordinator by mail. As the data is confidential, no upload to Google Drive or other joint servers is allowed. All data sheets shall be marked by codes only, where each country has their national code (DK, S, NL, IRE, F, B) followed by the number the farm has been ID-ed with (1,2,3,4,5,6,7…..).
The WP coordinator will subsequently insert the incoming data into an ACCESS database, from which data can be analysed, using SPSS and SAS. Once the data is recorded anonymously, it can be exchanged with task partners for analysis.

Appendix:

1. Basic registrations
2. Mineral balances, a,b,c,d,e,f,g,h
3. Economy
4. Social registrations
5. Specific registrations
6. Labour registrations

Instructions:
Do not change the format, **Do**
not insert or delete lines or cells,
Only write in the green marked cells

	Question	Details	dimension	explanation	Fill in		
	Farm code						
FAMILY and LABOUR	Farmer's/Farm's name		integer	Family name - First name / Farm Name			
	Number of farmers in partnership (if partnership)		decimal				
	Farmer's education/		integer	p = primary school; s= subject orented; u= university			
	Farmers Age		years				
	Farmers Age		years				
	Farmers Age		years				
	Person taking over the farmdoes farm exist		0 or 1	farm be taken over? (Yes= 1 or No= 0)			
	Estimated Full Time Workers (FTW)		decimal	Farmer + partners + familiy (fx 2,5)			
	Estimated hours worked per week		decimal	Of all owners together (7 days a week)			
	Holidays average pr. partner		days/year	7 days a week			
	Employed workforce		FTW	Full Time Workers			
	Work done by contractor	Grass cut and silage	ha/year	If two times pr. year on 1 ha, fill in 2 ha			
	Work done by contractor	Slurry spreading	ha/year	If two times pr. year on 1 ha, fill in 2 ha			
	Work done by contractor	Maize harvest + silage	ha/year	If two times pr. year on 1 ha, fill in 2 ha			
	Work done by contractor	please fill	ha/year	If two times pr. year on 1 ha, fill in 2 ha			
	Work done by contractor	please fill	ha/year	If two times pr. year on 1 ha, fill in 2 ha			
	Work done by contractor	please fill	ha/year	If two times pr. year on 1 ha, fill in 2 ha			
	Work done by contractor	please fill	ha/year	If two times pr. year on 1 ha, fill in 2 ha			
	Work done by contractor	please fill	ha/year	If two times pr. year on 1 ha, fill in 2 ha			
CONTEXT	Data year		dd/mm/yy				
	Type of farming		integer	Organic = 1 Conventional= 2			
	Annual rainfall		mm				
	Latitude		dd°mm'	example: 50°47'			
	Altitude		m				
	soil type	sand	ha				
	soil type	peat	ha				
	soil type	loam	ha				
	soil type	clay	ha				
LAND USE GRASS AND CROPS	Total farm area		ha	A.A. + all other surfaces of the farm			
	Total A.A		ha	Arable surfaces, grassland, fallows, perennial crops			
	Forestry and other non or semi agricultural land		ha	Forestry, land for buildings, surface or land under environnmental c			
	Grassland permanent		ha				
	Grassland temporary		ha				
	Grazeable area for lactating cows		ha				
	Area grazed in his year		ha				
	Average paddock size						
	Mais silage		ha				
	Other roughage crops	Whole cereal crop	ha	Cereals harvested before ripening with straw and chopped			
		Alfalfa	ha	Luzerne			
		please fill	ha				
		please fill	ha				
		please fill	ha				
	Arable crops for own use	Wheat	ha				
		Triticale	ha				
		Barley	ha				
		Oats	ha				
		Rye	ha				
		Please fill	ha				
		Please fill	ha				
		Please fill	ha				
			ha				
	Arable crops sold		ha				
		Wheat	ha				
		Triticale	ha				
		Barley	ha				
		Oat	ha				
		Rye	ha				
		Rape	ha				
		Potatoes	ha				
		Please fill	ha				
		Please fill	ha				
		Please fill	ha				
	Catch crops		ha				
	Maize, crops for energy production(biodiesel, biogas)		ha				
	Perennial Crops (orchards, vineyards,...)		ha				
	Perennial Crops (orchards, vineyards,...)		ha	Specify type			
	Crop rotation		decimal	Mean value of the duration of the rotation.			
	average age of grassland for grazing		decimal	Without Grass for silage			
	monoculture		% (Tot AA)	Describe in words if problems to get percentages			
	biannual rotation		% (Tot AA)				
	triannual rotation		% (Tot AA)				
	>3 years rotation		% (Tot AA)				
	permanent arable crop		% (Tot AA)	for instance miscantus			
	Land under biodiversity or extensification programs		ha	Used by farm for grazing,silage or other			
	Irrigated area		ha				
Dairyherd	Milk quota		kg	official			
	Milk produced		kg	registered in AMS			
	Milk delivered		kg	same as in economical accounts			
	Dairy cows		decimal	amount			
	Breed		integer				
	Calves <1 year		decimal	amount			
	Heifers 1-2 years		decimal	amount			
	Heifers > 2 years		decimal	amount			
	Calving interval average		days	f.eks. 60 days			
	Age of first calving average		month				
Other HERBIVORES	Suckler Cows (specify breed)		integer				
	Suckler Cows		decimal	including calves			
	Young bulls for fattening		decimal	amount			
	Bullochs		decimal	amount			
PIGS	Sows	Breeding	decimal	amount			
	pigs delivered pr. year	Fattening	decimal	amount			
grazing of dairy cows	Date of beginning		dd-mm	This year			
	Date of end		dd-mm	This year			
	number og days with d+n grazing		decimal	day and night (d+n)			
	number days grazing d		decimal	only in daytime			
	time of access with daytime grazing		decimal	hours			
	av time grazing		decimal	hours			
Equipment	Type of barn (slatted floor + bedding, solid floor + bedding, deep pit)	sl/so/dp	integer	please use abeviations mentioned in detail column			
	Milking system		Integer	If only AMS mention brand			
Storage capacity of Slurry	Storage capacity Slurry		m^3	tons			
	Storage capacity slurry		months				
Storage capacity of Farm Yard Manure	Storage capacity FYM		m^3				
	Storage capacity FYM		month				
Other activities of the farm	Biogas production (kW, m3)		kW or m3	Specify the volume of biogas produced and the form of exploitation of the gaz (electricity, heat or introduction in the gaz network)			
	solar cells		kW				
	Tourism		integer	Describe type			
	Other revenu		integer	Describe			
AMS	Year of start		yyyy				
	nb of units		decimal	If GEA or similar nb of milking places			
	Using intelligent selection gates		integer	y/n			
	av milking frequency winter		decimal				
	av milking frequency during grazing		decimal				
TECHNOLOGY	Using heat detection		y/n				
	Brand						
	Using desision support software for grazing		y/n				
	Brand						
	Using other sensors		y/n				
	Which	please mention		example: pasture meter			
		please mention					
		please mention					
					milking cows	heifers < 1y	heifers > 1 y
ANIMAL HEALTH				If each animal 1 time = 100%, if each 2 times = 200% only			
	curatively treated animals	average	%	medicine which vet prescribes			
	prophilactically treated animals	average	%	Vaccination, pour on, anti biotics in dry period			
	animals treated with performance enhancing methods	average	%	Hormones or growth stimulates			
	Animals lost		%	Only animals suddenly dying			
	mutilated animals		%	Dehorned /tail cut			
	were all animals seduced under mutilation		y/n				
MILK QUALITY	Bacterial spores		nb/l	average			
	average SCC winter		nb/ml				
	average SCC summer (grazing)		nb/ml	in grazing period			
	Average MILK UREA NITROGEN winter	MUN	mg/dl				
	Average MILK UREA NITROGEN summer	MUN	mg/dl				

AGM Balances

Complete Farm Mineral Balance

FARM NAME		
FARM FORENAME		
FARM CODE		Ex.: LU01
Year	2013	
Farm Agricultural Area (ha)		
Milk Production Farm (kg)		

Please fill the GREEN CELLS from:
1. Appendix OUTPUT PRODUCTS
2. Appendix ANIMALS
3. Appendix MINERAL FERTILIZER
4. Appendix ORGANIC FERTILIZER
5. Appendix PLANT PRODUCTS
6. Appendix FEED CONCENTRATE
7. Appendix OTHER INPUT

"GREEN CELL" = unprotected (fill-in ready)

"other cell" = protected (Formula imbedded)

To unprotect no password needed.
(if any changes have to be made)

Balance at the whole Farm level (kg/farm/year)

Inputs	Source	Appendix	N kg/farm/year	P kg/farm/year	K kg/farm/year
	Animals	App Animals	0	0	0
	Mineral Fertilizer	App FeM	0	0	0
	Organic Fertilizer	App FeO	0	0	0
	Plant Products (FR, cereals,...)	App PP	0	0	0
	Feed concentrates	App FC	0	0	0
	Biological N fixation	App OI	0		
	Atmospheric deposition	App OI	0		
	Input by irrigation	App OI	0		
	Total Input		0	0	0

Outputs	Source	Appendix	N kg/farm/year	P kg/farm/year	K kg/farm/year
	Milk	App Oproducts	0	0	0
	Animals	App Animals	0	0	0
	Other Outputs	App Oproducts	0	0	0
	Organic Fertilizer	App FeO	0	0	0
	Total Output		0	0	0

Stock variation	Source	Appendix	N kg/farm/year	P kg/farm/year	K kg/farm/year
	Animals	App Animals	0	0	0
	Mineral Fertilizer	App FeM	0	0	0
	Organic Fertilizer	App FeO	0	0	0
	Plant Products (FR, cereals,...)	App PP	0	0	0
	Feed concentrates	App FC	0	0	0
	Total stock variation		0	0	0

Balance		N kg/farm/year	P kg/farm/year	K kg/farm/year
	Balance	0	0	0
	Balance kg/ha	#DIV/0!	#DIV/0!	#DIV/0!
	Balance kg/1000kg of milk	#DIV/0!	#DIV/0!	#DIV/0!
	Efficiency (%)	#DIV/0!	#DIV/0!	#DIV/0!

Balance at the area level (kg/ha)

Inputs	Source	Appendix	N kg/farm/year/ha	P kg/farm/year/ha	K kg/farm/year/ha
	Animals	App Animals	#DIV/0!	#DIV/0!	#DIV/0!
	Mineral Fertilizer	App FeM	#DIV/0!	#DIV/0!	#DIV/0!
	Organic Fertilizer	App FeO	#DIV/0!	#DIV/0!	#DIV/0!
	Plant Products (FR, cereals,...)	App PP	#DIV/0!	#DIV/0!	#DIV/0!
	Feed concentrates	App FC	#DIV/0!	#DIV/0!	#DIV/0!
	Biological N fixation	App OI	#DIV/0!	#DIV/0!	#DIV/0!
	Atmospheric deposition	App OI	#DIV/0!	#DIV/0!	#DIV/0!
	Input by irrigation	App OI	#DIV/0!	#DIV/0!	#DIV/0!
	Total Input		#DIV/0!	#DIV/0!	#DIV/0!

Outputs	Source	Appendix	N kg/farm/year/ha	P kg/farm/year/ha	K kg/farm/year/ha
	Milk	App Poproducts	#DIV/0!	#DIV/0!	#DIV/0!
	Animals	App Animals	#DIV/0!	#DIV/0!	#DIV/0!
	Other Outputs	App Oproducts	#DIV/0!	#DIV/0!	#DIV/0!
	Organic Fertilizer	App FeO	#DIV/0!	#DIV/0!	#DIV/0!
	Total Output		#DIV/0!	#DIV/0!	#DIV/0!

Stock variation	Source	Appendix	N kg/farm/year/ha	P kg/farm/year/ha	K kg/farm/year/ha
	Animals	App Animals	#DIV/0!	#DIV/0!	#DIV/0!
	Mineral Fertilizer	App FeM	#DIV/0!	#DIV/0!	#DIV/0!
	Organic Fertilizer	App FeO	#DIV/0!	#DIV/0!	#DIV/0!
	Plant Products (FR, cereals,...)	App PP	#DIV/0!	#DIV/0!	#DIV/0!
	Feed concentrates	App FC	#DIV/0!	#DIV/0!	#DIV/0!
	Total stock variation		#DIV/0!	#DIV/0!	#DIV/0!

Balance		N kg/farm/year/ha	P kg/farm/year/ha	K kg/farm/year/ha
	Balance	#DIV/0!	#DIV/0!	#DIV/0!

AGM Balances

Appendix OProducts

Appendix Output Products

All outputs of products (milk and plant products) on the farm (for animals, look at Appendix animals)

"GREEN CELL" = unprotected (fill-in ready)

other cell = protected (Formula imbedded)

	N kg/farm/year	P kg/farm/year	K kg/farm/year
Output milk	0	0	0
Other Outputs	0	0	0
Output Products	0	0	0

Milk output (sold milk and self consumption in the family)

Typ	Quantity	Protein content	Fat content	K content	y	z	Output N	Output P	Output K
	L	g/L	g/L	g/L			kg N	kg P	kg K
Cow Milk	0						0	0	0
				Total output milk kg/farm/year			0	0	0

Other outputs (sold cereals and other plant products)

Typ	Quantity	Dry Matter Conten	N content	P content	K-content	x	y	z	Output N	Output P	Output K
	T	%	kg N /T	kg P/ T	kg K/T				kg N	kg P	kg K
Grass silage		40	10	1.76	9.96				0	0	0
Maize silage		32	1.376	0.256	1.344				0	0	0
Hay		83	14.94	2.5315	16.6				0	0	0
Straw		86	4.3	1.118	11.18				0	0	0
Wheat		86	15.48	3.01	4.3				0	0	0
Barley		86	14.62	3.01	4.3				0	0	0
Oat		86	12.9	3.01	4.3				0	0	0
Grain maize		86	12.9	2.58	3.44				0	0	0
Rye		86	12.9	3.01	4.3				0	0	0
Beans		86	35.26	4.472	9.976				0	0	0
Peas		86	30.96	5.246	9.976				0	0	0
Colza		91	30.485	7.098	7.553				0	0	0
Patatoes		22	0.77	0.1342	1.0956				0	0	0
Grapes			2.2	2	3.7				0	0	0
									0	0	0
									0	0	0
									0	0	0
									0	0	0
									0	0	0
									0	0	0
									0	0	0
									0	0	0
									0	0	0
									0	0	0
									0	0	0
						Total other outputs kg/farm/year			0	0	0

Dairyman Balances

Appendix Animals
Animals
All inputs, outputs and stock variations of animals

"GREEN CELL" = unprotected (fill-in ready)

other cell = protected (Formula imbedded)

	N kg/farm/year	P2O5 kg/farm/year	K2O kg/farm/year
Input	0	0	0
Output	0	0	0
Stock variation	0	0	0
Balance animals	0	0	0

Animal input (by purchasing)

Class	Typ	Quantity	Weight	N-content	P-content	K-content	x	y	z	Input N	Input P	Input K
	Age	Number	kg/animal	kg N/T life weight	kg P/T life weight	kg K/T life weight				kg N	kg P	kg K
Milking cattle	Milking cows			24	7	2				0	0	0
	Calves (<1/2 yr)			24	7	2				0	0	0
	Calves (1/2 yr -1yr)			24	7	2				0	0	0
	Heifers (1yr -1,5 yrs)			24	7	2				0	0	0
	Heifers (1,5yrs -2yrs)			24	7	2				0	0	0
	Heifers (>2yrs)			24	7	2				0	0	0
	Breeding Bulls			24	7	2				0	0	0
Beef Cattle	Suckler Cows			24	7	2				0	0	0
	Calves (<1/2 yr)			24	7	2				0	0	0
	Calves (1/2 yr -1yr)			24	7	2				0	0	0
	Cattle (1yr -1,5 yrs)			24	7	2				0	0	0
	Cattle (1,5yrs -2yrs)			24	7	2				0	0	0
	Cattle (>2yrs)			24	7	2				0	0	0
	Breeding Bulls			24	7	2				0	0	0
Other Animals	Sheeps			26	6	1.9				0	0	0
	Horses			27	7.5	2				0	0	0
	Poultry									0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
							Total input animal kg/farm/year			0	0	0

Animal output (sold, dead and consumed by the farm animals)

Class	Typ	Quantity	Weight	N-content	P-content	K-content	x	y	z	Output N	Output P	Output K
	Age	Number	kg/animal	kg N/T life weight	kg P/T life weight	kg K/T life weight				kg N	kg P	kg K
Milking cattle	Milking cows			24	7	2				0	0	0
	Calves (< 2 weeks)			24	7	2				0	0	0
	Calves (<1/2 yr)			24	7	2				0	0	0
	Calves (1/2 yr -1yr)			24	7	2				0	0	0
	Heifers (1yr -1,5 yrs)			24	7	2				0	0	0
	Heifers (1,5yrs -2yrs)			24	7	2				0	0	0
	Heifers (>2yrs)			24	7	2				0	0	0
	Breeding Bulls			24	7	2				0	0	0
Beef Cattle	Suckler Cows			24	7	2				0	0	0
	Calves (<1/2 yr)			24	7	2				0	0	0
	Calves (1/2 yr -1yr)			24	7	2				0	0	0
	Cattle (1yr -1,5 yrs)			24	7	2				0	0	0
	Cattle (1,5yrs -2yrs)			24	7	2				0	0	0
	Cattle (>2yrs)			24	7	2				0	0	0
	Breeding Bulls			24	7	2				0	0	0
Other Animals	Sheeps			26	6	1.9				0	0	0
	Horses			27	7.5	2				0	0	0
	Poultry									0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
							Total output animal kg/farm/year			0	0	0

Initial Stock Animals

Class	Typ	Quantity	Weight	N-content	P-content	K-content	x	y	z	N	P	K
	Age	Number	kg/animal	kg N/T life weight	kg P/T life weight	kg K/T life weight				kg N	kg P	kg K
Milking cattle	Milking cows			24	7	2				0	0	0
	Calves (<1/2 yr)			24	7	2				0	0	0
	Calves (1/2 yr -1yr)			24	7	2				0	0	0
	Heifers (1yr -1,5 yrs)			24	7	2				0	0	0
	Heifers (1,5yrs -2yrs)			24	7	2				0	0	0
	Heifers (>2yrs)			24	7	2				0	0	0
	Breeding Bulls			24	7	2				0	0	0
Beef Cattle	Suckler Cows			24	7	2				0	0	0
	Calves (<1/2 yr)			24	7	2				0	0	0
	Calves (1/2 yr -1yr)			24	7	2				0	0	0
	Cattle (1yr -1,5 yrs)			24	7	2				0	0	0
	Cattle (1,5yrs -2yrs)			24	7	2				0	0	0
	Cattle (>2yrs)			24	7	2				0	0	0
	Breeding Bulls			24	7	2				0	0	0
Other Animals	Sheeps			26	6	1.9				0	0	0
	Horses			27	7.5	2				0	0	0
	Poultry									0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
							Initial stock animal kg/farm/year			0	0	0

Final Stock Animals

Class	Typ	Quantity	Weight	N-content	P-content	K-content	x	y	z	N	P	K
	Age	Number	kg/animal	kg N/T life weight	kg P/T life weight	kg K/T life weight				kg N	kg P	kg K
Milking cattle	Milking cows			24	7	2				0	0	0
	Calves (<1/2 yr)			24	7	2				0	0	0
	Calves (1/2 yr -1yr)			24	7	2				0	0	0
	Heifers (1yr -1,5 yrs)			24	7	2				0	0	0
	Heifers (1,5yrs -2yrs)			24	7	2				0	0	0
	Heifers (>2yrs)			24	7	2				0	0	0
	Breeding Bulls			24	7	2				0	0	0
Beef Cattle	Suckler Cows			24	7	2				0	0	0
	Calves (<1/2 yr)			24	7	2				0	0	0
	Calves (1/2 yr -1yr)			24	7	2				0	0	0
	Cattle (1yr -1,5 yrs)			24	7	2				0	0	0
	Cattle (1,5yrs -2yrs)			24	7	2				0	0	0
	Cattle (>2yrs)			24	7	2				0	0	0
	Breeding Bulls			24	7	2				0	0	0
Other Animals	Sheeps			26	6	1.9				0	0	0
	Horses			27	7.5	2				0	0	0
	Poultry									0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
										0	0	0
							Final Stock animal kg/farm/year			0	0	0

AGMBalances

Appendix FeM
Fertilizer Mineral
All inputs and stock variations of mineral fertilizer

"GREEN CELL" = unprotected (fill-in ready)

other cell = protected (Formula imbedded)

	Quantity		
	N kg/farm/year	**P** kg/farm/year	**K** kg/farm/year
Total Input	0	0	0
Stock variation	0	0	0

FeM input (by purchasing)

Type	Weight	N-content	P2O5-content	K2O-content	x	y	z	Input N	Input P	Input K
Name	kg	kg N/kg Fertilizer	kg P2O5/kg Fertilizer	kg K2O/kg Fertilizer				kg N	kg P	kg K
Calcium Ammonium Nitrate		0.27	0	0				0	0	0
Urea		0.46	0	0				0	0	0
Ammonium sulphate		0.21	0	0				0	0	0
Ammonium Sulphate Nitrate		0.26	0	0				0	0	0
Urea-Ammonium Nitrate Solution UAN		0.28	0	0				0	0	0
Calcium Cyanamide		0.195	0	0				0	0	0
Triple Super Phosphate fertilizer		0	0.45	0				0	0	0
Diammonium phosphate		0.18	0.46	0				0	0	0
Potassium (40%)		0	0	0.4				0	0	0
Potassium (60%)		0	0	0.6				0	0	0
NPK 15-15-15		0.15	0.15	0.15				0	0	0
NPK 0-63-41		0	0.63	0.41				0	0	0
other								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
					Total input FeM kg/farm/year			0	0	0

Initial Stock of FeM

Type	Weight	N-content	P2O5-content	K2O-content	x	y	z	N	P	K
Name	kg	kg N/kg Fertilizer	kg P2O5/kg Fertilizer	kg K2O/kg Fertilizer				kg N	kg P	kg K
Calcium Ammonium Nitrate		0.27	0	0				0	0	0
Urea		0.46	0	0				0	0	0
Ammonium sulphate		0.21	0	0				0	0	0
Ammonium Sulphate Nitrate		0.26	0	0				0	0	0
Urea-Ammonium Nitrate Solution UAN		0.28	0	0				0	0	0
Calcium Cyanamide		0.195	0	0				0	0	0
Triple Super Phosphate fertilizer		0	0.45	0				0	0	0
Diammonium phosphate		0.18	0.46	0				0	0	0
Potassium (40%)		0	0	0.4				0	0	0
Potassium (60%)		0	0	0.6				0	0	0
NPK 15-15-15		0.15	0.15	0.15				0	0	0
other								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
					Total initial stock FeM kg/farm			0	0	0

Final Stock of FeM

Type	Weight	N-content	P2O5-content	K2O-content	x	y	z	N	P	K
Name	kg	kg N/kg Fertilizer	kg P2O5/kg Fertilizer	kg K2O/kg Fertilizer				kg N	kg P	kg K
Calcium Ammonium Nitrate		0.27	0	0				0	0	0
Urea		0.46	0	0				0	0	0
Ammonium sulphate		0.21	0	0				0	0	0
Ammonium Sulphate Nitrate		0.26	0	0				0	0	0
Urea-Ammonium Nitrate Solution UAN		0.28	0	0				0	0	0
Calcium Cyanamide		0.195	0	0				0	0	0
Triple Super Phosphate fertilizer		0	0.45	0				0	0	0
Diammonium phosphate		0.18	0.46	0				0	0	0
Potassium (40%)		0	0	0.4				0	0	0
Potassium (60%)		0	0	0.6				0	0	0
NPK 15-15-15		0.15	0.15	0.15				0	0	0
other								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
					Total final stock FeM kg/farm			0	0	0

AGM Balances

Appendix FeO
Fertilizer Organic
All inputs, outputs and stock variations of organic fertilizer

"GREEN CELL" = unprotected (fill-in ready)

other cell = protected (Formula imbedded)

	Quantity		
	N kg/farm/year	**P** kg/farm/year	**K** kg/farm/year
Input	0	0	0
Output	0	0	0
Stock variation	0	0	0

FeO input (by purchasing, contract)

Type	Weight	N-content	P2O5-content	K2O-content	x	y	z	Input N	Input P	Input K
Name	t	kg N/t org. fertilizer	kg P2O5/t org. fertilizer	kg K2O/t org. fertilizer				kg N	kg P	kg K
Cow slurry (liquid)								0	0	0
Pig slurry (liquid)								0	0	0
Cow manure (solid)								0	0	0
Pig manure (solid)								0	0	0
Poultry manure								0	0	0
								0	0	0
								0	0	0
								0	0	0
					Total input FeO kg/farm/year			0	0	0

FeO output (by selling, contract)

Type	Weight	N-content	P2O5-content	K2O-content	x	y	z	Output N	Output P	Output K
Name	t	kg N/t org. fertilizer	kg P2O5/t org. fertilizer	kg K2O/t org. fertilizer				kg N	kg P	kg K
Cow slurry (liquid)								0	0	0
Pig slurry (liquid)								0	0	0
Cow manure (solid)								0	0	0
Pig manure (solid)								0	0	0
Poultry manure								0	0	0
								0	0	0
								0	0	0
								0	0	0
					Total input FeO kg/farm/year			0	0	0

If there was a considerable stock variation, please fill in the following cells!Fill in the final stock and the % of stock variation.

Final Stock FeO	**Final Stock**											
Type	Weight	N-content	P2O5-content	K2O-content	**Stock variation**		x	y	z	N	P	K
Name	t	kg N/t org. fertilizer	kg P2O5/t org. fertilizer	kg K2O/t org. fertilizer	% decrease	% increase				kg N	kg P	kg K
Cow slurry (liquid)										0	0	0
Pig slurry (liquid)										0	0	0
Cow manure (solid)										0	0	0
Pig manure (solid)										0	0	0
Poultry manure										0	0	0
										0	0	0
										0	0	0
										0	0	0
							Total stock variation FeO kg/farm/year			0	0	0

AGMBalances

Appendix PP
Plant Products
All inputs and stock variations of feed plant products
Roughage Feed, Litter, cereals, …

"GREEN CELL" = unprotected (fill-in ready)

other cell = protected (Formula imbedded)

	Quantity		
	N kg/farm/year	**P** kg/farm/year	**K** kg/farm/year
Input	0	0	0
Stock variation	0	0	0

Plant Products input (by purchasing)

Typ	Weight	%Dry Matter	N-content	P-content	K-content	x	y	z	Input N	Input P	Input K
Name	t	%	kg N/t FR	kg P/t FR	kg K/t FR				kg N	kg P	kg K
Grass silage		40	25	4.4	24.9				0	0	0
Maize silage		32	4.3	0.8	4.2				0	0	0
Hay		83	18	3.05	20				0	0	0
Straw		86	5	1.3	11.61				0	0	0
Sawdust			3.3	0.3	0.8				0	0	0
alfalfa		90	26	3.01	16.75				0	0	0
wet concentrate		42	35	4.36	9.16				0	0	0
									0	0	0
									0	0	0
									0	0	0
									0	0	0
									0	0	0
									0	0	0
									0	0	0
									0	0	0
									0	0	0
									0	0	0
									0	0	0
						Total input FR kg/farm/year			0	0	0

If there was a considerable stock variation, please fill in the following cells! Fill in the final stock and the % of stock variation.

Plant Products final stock

Typ	Weight	%Dry Matter	N-content	P-content	K-content	**Stock variation**		x	y	z	N	P	K
Name	t	%	kg N/t	kg P/t	kg K/t	% decrease	% increase				kg N	kg P	kg K
Grass silage		40	25	4.4	24.9						0	0	0
Maize silage		32	4.3	0.8	4.2						0	0	0
Hay		83	18	3.05	20						0	0	0
Straw		86	5	1.3	11.61						0	0	0
Wheat		86	18	3.5	5						0	0	0
Barley		86	17	3.5	5						0	0	0
Oat		86	15	3.5	5						0	0	0
Grain maize		86	15	3	4						0	0	0
Rye		86	15	3.5	5						0	0	0
Beans		86	41	5.2	11.6						0	0	0
Peas		86	36	6.1	11.6						0	0	0
Colza		91	33.5	7.8	8.3						0	0	0
Patatoes		22	3.5	0.6	4.9						0	0	0
Grapes			2.2	2	3.7						0	0	0
											0	0	0
											0	0	0
											0	0	0
											0	0	0
											0	0	0
											0	0	0
											0	0	0
											0	0	0
								Total stock variation PP kg/farm/year			0	0	0

AGM Balances

Appendix FC
Feed concentrate
All inputs, outputs and stock variations of concentrate feed

"GREEN CELL" = unprotected (fill-in ready)

other cell = protected (Formula imbedded)

	Quantities		
	N kg/farm/year	**P** kg/farm/year	**K** kg/farm/year
Input	0	0	0
Stock variation	0	0	0

FC input (by purchasing)

Type	Weight	N-content	P-content	K-content	x	y	z	Input N	Input P	Input K
Name	t	kg N/t FC	kg P/t FC	kg K/t FC				kg N	kg P	kg K
milk powder for calves		36	10.5	17.5				0	0	0
flakes for calves								0	0	0
maize (CCM)								0	0	0
concentrates for young cattle		25.6	3.9	6.7				0	0	0
concentrates for dairy cows		43	10.9	10				0	0	0
concentrates for dairy cows		64	6.11	15				0	0	0
barley								0	0	0
wheat								0	0	0
oats								0	0	0
triticale								0	0	0
peas								0	0	0
horse beans								0	0	0
soya								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
					Total input FC kg/farm/year			0	0	0

Initial Stock of FC

Type	Weight	N-content	P-content	K-content	x	y	z	N	P	K
Name	t	kg N/t FC	kg P/t FC	kg K/t FC				kg N	kg P	kg K
								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
					Total initial stock FC kg/farm			0	0	0

Final Stock of FC

Type	Weight	N-content	P-content	K-content	x	y	z	N	P	K
Name	t	kg N/t FC	kg P/t FC	kg K/t FC				kg N	kg P	kg K
								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
								0	0	0
					Total final stock FC kg/farm			0	0	0

AGM Balances

Appendix OI
Other inputs
All other inputs (deposition, legumes fixation)

"GREEN CELL" = unprotected (fill-in ready)

other cell = protected (Formula imbedded)

	Total Input N kg/farm/year	Total Input P kg/farm/year	Total Input K kg/farm/year
Input	0	0	0

OI N deposition

Type	Farm Area	N deposition				x	y	z	Input N	Input P	Input K
Name	ha	kg N/ ha area							kg N	kg P	kg K
N deposition									0		
						Total input N deposition kg/farm/year			0		

Nitrogen deposition in 2007			
	Total N deposition (oxidized and reduced) Source EMEP 2007 [Gg/year.country]	Superficie [ha]	Total N deposition (oxidized and reduced) [kg N/year.ha]
Belgium	52,4754	3 050 000	17,2
Germany	551,9339	35 702 700	15,46
France	633,6016	67 541 700	9,38
Netherlands	72,4492	4 152 600	17,45
Luxembourg	4,5849	258 600	17,73
Ireland	51,7428	7 027 300	7,36
United Kingdom	186,7205	24 410 100	7,65

OI legumes fixation

Type	Culture	Area	Legumes content	Total Dry Matter Yield	N content	x	y	z	Input N	Input P	Input K
Name	Name	ha	% of dry matter	kg/ha/year	kg N/ t legume				kg N	kg P	kg K
Clover fixation grassland	Grassland				30				0		
Fixation Pure Legume Culture	Beans		100		30				0		
Fixation Pure Legume Culture	Peas		100		30				0		
Fixation Pure Legume Culture	Alfalfa		100		30				0		
Fixation Pure Legume Culture	Red Clover		100		30				0		
		0	0	0					0		
									0		
									0		
									0		
						Total input N legumes kg/farm/year			0		

OI N irrigation

Type	Quantity irrigated	N concentration				x	y	z	Input N	Input P	Input K
Name	T	kg N/ T water							kg N	kg P	kg K
N input by irrigation									0		
						Total input N irrigation kg/farm/year			0		

Please fill in only and all the green cells

Data Year (1st January-31st December)	2013	
FARM CODE (EX.: DK1)	FAM NAME	Vorname

	Unit	*Whole Farm economics*	*Allocation to dairy barn (%)*	*Allocation to Rouhages (dairy)%*	*Dairy economics (€ / 100 kg FPCM*	Dairy economics (€ / labor unit)	Dairy economics (€ /hour of work)	Farm economics (€/ha)	Comments
Total produced milk	kg								
% fat	%								Take average of the whole year
% protein	%								Take average of the whole year
FPCM (fat and protein corrected milk production)	kg FPCM	0							
Dairy cows	number								
young stock	number								
Milk yield	kg / cow	#DIV/0!							
Suckler Cows	number	0							Take data from the general farm description
Bulls	number	0							Take data from the general farm description
Pigs for fattening	number	0							Take data from the general farm description
Sows	number	0							Take data from the general farm description
Other animals	number	0							Take data from the general farm description
Cultivated land belonging to the farm	ha	0.0							Take data from the general farm description
of which maize	ha								Take data from the general farm description
of which grassland	ha								Take data from the general farm description
of which other crops	ha								Take data from the general farm description
Land allocated to dairy		0.0							
of which maize	ha	0.0							
of which grassland	ha	0.0							
of which other crops	ha	0.0							
Intensity (MILK/allocated land to dairy)	kg fpcm / ha	**#DIV/0!**							
Total milk quota	kg								
Milk quota rented	kg								
market value for milk quota	€/kg								
Interest for quota capital	%				fixed standard interest rate				This interest rate is used to calculate quota opportunity costs
land rented	ha								
average rent value for the region	€ /ha								
Total labour (Labour units)	number	0.0	#DIV/0!						
Family labour (Labour units)	number								Take data from the general farm description
Employed Labour (Labour units)	number								Take data from the general farm description
Labour units allocated to the dairy	number	#DIV/0!							
Hours per labour unit	hours pr.year								Take the real hours a labour unit is working on the farm
Labour allocated to the dairy	hours pr.year	#DIV/0!							
Remuneration of one hour of work	€/h				average of employees				Needed to calculate the opportunity costs for work
Biogas (yes / no)									Take data from the general farm description
Tourism (yes / no)									Take data from the general farm description
Revenues									
Sold milk (after super levy)	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Sold animals	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Sold forage	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Total Annual subsidies, direct payments	€	0			#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
of which single farm payment	€		*#DIV/0!*		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
of which payment for disadvantaged area	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
of which agri-environnmental payments	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
of which others (water, electricity, social payments,...)	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
of which others	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Sold energy (no photovoltaics)	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Sold crops	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
sold contractor work	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Others (please specify)					#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
					#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Total revenues (A)	€	0			#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Costs									
Cattle related costs									
Concentrates (purchased)									
Cereals (purchased)	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Roughage (purchased)	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
other feeding costs (purchased)	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Breeding costs (e.g. inseminations, milk recording)	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Health care - veterinarian, medicine	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Bedding / straw	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Other cattle costs (shaving, hoof trimming,destruction, ..)	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Exporting manure from the farm	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Animals (purchased)	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
cattle advice/analysis	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Others (please specify)	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Total	€	0			#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Crop related costs	€								
Land rent (only paid)	€		100%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Seed, Chemicals (herbicides, pesticides)	€		*100%*		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Fertilizer (mineral and organic)	€		*100%*		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Fences, plastic for covering silage	€		*100%*		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Insurance for crops	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Crops advice /analysis	€		*100%*		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Other (please specify)	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Total	€	0			#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Building related costs	€								
maintenance, repairs,	€		90%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
rental	€		*90%*		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Insurance fire	€		*90%*		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Other (please specify)					#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Total		0			#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Operation costs	€								
Contractor	€		100%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Paid labor and other staff costs	€		100%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Fuel and oil for machines & installations	€		100%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
maintenance, repairs for machines & installations	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
maintenance, repairs for AMS	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
electricity barn	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
water barn	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
gas	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
other, please mention	€	0			#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Total									
Management related costs	€								
Administration / accountancy / advisor			90%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Office, telephone, fax, paper,					#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
ensurance general					#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Licence for management software			100%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
other please mention					#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Total		0			#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Annual taxes	€								
taxes on land, buildings, cattle, …	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Other (please specify)					#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Other (please specify)					#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Total		0			#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Total variable costs (B)	€	**0**			**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	
C: 'Income 1' (A - B) (savings capacity)	€	**0**			**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	
D: Depreciation	€	**0**			**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	
depreciation on machines and installations barn	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
depreciation on machines and installations field									
depreciation on buildings	€		100%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
depreciation on installations linked to energy production	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
depreciation on other installations (tourism,...)	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Income without subsidies	€	**0**			**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	
Income without subsidies- depreciation (D)	€	**0**			**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	
E= A-B-D: 'Income 2' money available for	€	**0**			**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	You have to calcuate until this level
replacement investments in that very yea									
quota costs									
interest (paid or opportunity)									
income taxes									
family living									
F: Interest (paid)									
Interest (really paid)	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	If you don't get this figure of your farmers because it is too private, please indicate it
	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
F: Total interests	€	**0**			**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	
G: Quota Costs									
Quota rent (really paid)	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
Opportunity costs (own quota)	€	0	100%		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	value calculated with the market price of quota and the own quota
G: Total quota costs	€	**0**			**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	
H: Opportunity costs									
own land opportunity costs	€	0			#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	own land times average rental value for land
own buildings (opportunity costs)	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	Multiply own capital times interest rate e.g. 2%
own machinery (opportunity costs)	€				#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	Multiply own capital times interest rate e.g. 2%
Family Labour costs (opportunity)		0	#DIV/0!		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	
H: Total opportunity costs	€	**0**			**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	
Farm net income E-F-G-H	**€**	**0**			**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	Please be very careful with this figure if you compare farms

some additional incomes

Income 3' E-G-H (farm income without paid interest)	€	**0**			**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**
Income 4' E-F-G (farm income without opportunity costs)	€	**0**			**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**
Income 5' E-F-H (farm income without quota costs)	€	**0**			**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**
Income 6' (farm income without family labour costs)	€	**0**			**#DIV/0!**	**#DIV/0!**	**#DIV/0!**	**#DIV/0!**

Your comments

Farm code [ ]

Only fill in the green cells (with x), please do not change format or structure

Education

Farmer's education

1. What is the highest level of education of the farmer?

(already assessed by general farm description but we need a graduation according to the following classification, so that question can be answered by Dairyman partners)

- [ ] Technical degree from college, university (e.g. bachelor, master)
- [ ] Post-secondary non-university education
- [ ] Agricultural education (e.g. at agricultural school – technical highschool degree or something comparable; secondary education)
- [ ] Non-agricultural education
- [ ] No education besides the compulsory schooling

Training courses

2. How many training days have staff and family workers had per year in total (number of days per person)?

Farmer	Family worker	Family worker	Employee
None	None	None	None
1 – 2 days per year	1 – 2 days per year	1 – 2 days per year	1 – 2 days per year
3 or more days per year	3 or more days per year	3 or more days per year	3 or more days per year

Working conditions

Personal satisfaction

3. Do you (all farm workers) feel overworked / stressed?

Farmer	Family worker	Family worker	Employee
Not at all	Not at all	Not at all	Not at all
Only at times of work peaks, but these are rare	Only at times of work peaks, but these are rare	Only at times of work peaks, but these are rare	Only at times of work peaks, but these are rare
Sometimes	Sometimes	Sometimes	Sometimes
Most of the time	Most of the time	Most of the time	Most of the time
Always	Always	Always	Always

4. How do you (all farm workers) feel about your income level?

Farmer	Family worker	Family worker	Employee
Not good / not enough	Not good / not enough	Not good / not enough	Not good / not enough
Sufficient	Sufficient	Sufficient	Sufficient
Good	Good	Good	Good

5. How would you (all farm workers) rate your work-life-balance?

Farmer	Family worker	Family worker	Employee
Positive	Positive	Positive	Positive
Average	Average	Average	Average
Poor	Poor	Poor	Poor

6. How is the working atmosphere at your farm?

- [ ] Positive
- [ ] Average
- [ ] Poor

Free time

7. Do you (all farm workers) feel you have sufficient time for activities beside the farm (family, hobbies, etc.)?

Farmer	Family worker	Family worker	Employee
Not at all	Not at all	Not at all	Not at all
Very limited	Very limited	Very limited	Very limited
Average	Average	Average	Average
Most of the time	Most of the time	Most of the time	Most of the time
Yes, always	Yes, always	Yes, always	Yes, always

Human health issues

8. Are you worrying about the physical hardness on your farm?

(So does anyone of the farm workers already have physical problems because of farm work?)

- [ ] Not at all
- [ ] Very limited
- [ ] Average
- [ ] Concerned
- [ ] Really concerned

9. How exposed are you or your workers to hazardous chemicals?

Farmer	Family worker	Family worker	Employee
Regularly	Regularly	Regularly	Regularly
Infrequently	Infrequently	Infrequently	Infrequently
Medium	Medium	Medium	Medium
Rarely	Rarely	Rarely	Rarely
Never	Never	Never	Never

Farm continuity

Preparation of farm succession

10. Do you expect your farm to still be farmed in the next decade?

- [ ] Yes
- [ ] Not sure
- [ ] No

11. How is your farm doing?

- [ ] Struggling
- [ ] Surviving
- [ ] Average
- [ ] Making a reasonable living
- [ ] Booming

Farm successor

12. In case that you are over 45, do you have anybody as your farm successor?

- [ ] Not yet relevant, I'm younger than 45
- [ ] Yes
- [ ] Not sure
- [ ] No

Social role and image

13. How many people visit your farm per year (e.g. farm walks, open days, etc.)?

- [ ] < 10
- [ ] 10 - 50
- [ ] 50 - 100
- [ ] 100 - 200
- [ ] More than 200

14. How many means / instruments of communication / publicity do you use to reach general public / improve mutual understanding

- [ ] 1 or fewer
- [ ] 2
- [ ] 3
- [ ] 4 – 5
- [ ] 6 or more

15. How is your relation to other farmers in your area?

- [ ] Good
- [ ] Average
- [ ] Bad

16. How are you / your farm business accepted by the regional population?

- [ ] Good relationship
- [ ] No points of friction
- [ ] Problematic

Please fill in only the green cells
Do not change cells or structure

Farm identification code:

Specific registrations for monitor farms

total for the month

2014	Jan	Feb	March	April	June	July	Aug	Sept	Oct	Nov	Dec
Energy consumption specified											
AMS (KWh)											

If no separate meter, please write what more is using electricity

Water consumption specified											
AMS (m3)											
irrigation (m3)											
husbandry consumption (m3)											

only fill in the green cells
please do not insert lines or cells
all for dairy cows except lines 31 and 33

Time regstration

Farm code DK1 week nr.

Please fill in the hours used each day, for all employees

	day 1	day 2	day 3	day 4	day 5	day 6	day 7	comments
Checking AMS data								
Fetching indoors								
Fetching outdoors								
Feeding								
Cow health								
Robot Cleaning/maintenance								
Grass allocation/strip fencing								
Alarms								
Training cows to AMS								
Other dairy tasks								
Other enterprise tasks								
Non farm activity								
Calves								
Heifer								
Other								
SUM	0	0	0	0	0	0	0	