

Manure Standards

Template for farm survey on manure management

Questionnaire for poultry farms

Farm name:	
Manager:	
Location:	
Date:	







1. LIVESTOCK REGISTER FOR THE SEASON (normally 12 months)

1.1. Livestock numbers and specifics (per manure handling line)

Intensive and AFC calculation	
Livestock	Total livestock number
Laying hens	
Chicken broilers	
Young birds	

1.2. Production

Intensive and AFC calc	ulation	Only for AFC calculation				
	Laying hens	– Cage hens				
Birds number (year hens)		Outside period		days/year		
Egg production	kg/year hen	Outside period		hours/day		
Starting weight	kg					
Final weight	kg					
Starting age	days					
	Laying hens	- Aviary hens				
Birds number (year hens)		Outside period		days/year		
Egg production	kg/year hen	Outside period		hours/day		
Starting weight	kg					
Final weight	kg					
Starting age	days					
	Laying hens – F	ree range hens				
Birds number (year hens)		Outside period		days/year		
Egg production	kg/year hen	Outside period		hours/day		
Starting weight	kg					
Final weight	kg					
Starting age	days					
	Laying hens –	Organic hens				









Birds number (year hens)		Outside period	days/year
Egg production	kg/year hen	Outside period	hours/day
Starting weight	kg		
Final weight	kg		
Starting age	days		
,	Chicker	n broiler	,
Birds number, birds produced		Outside period	days/year
Starting weight	kg	Outside period	hours/day
Final weight	kg		
Starting age	days		
	Young	g birds	·
Birds number, birds produced		Outside period	days/year
Starting weight	kg	Outside period	hours/day
Final weight	kg		
Starting age	days		









2. DIET COMPOSITION - FEED TYPE AND QUALITY FOR THE SEASON (normally 12

months) TMR calculation (according to the number of feeding groups)

2.1. Laying hens

	Laying ne				y be varia g/kg DM; e				f the DM not known	Period length
Feed	kg/day per animal	DM %	DM digestibility %	CP %	Р%	К%	Ash %	OM %	OM digestibility %	Days in the group
	T		Phase 1 – max	kimum egg	product	ion		ı	1	
		Pha	se 2 – egg pro	duction: m	naximum	to 90%	T	1	1	
										_
		Р	hase 3 – egg p	roduction	n: 89% to	85%				
		Ph	l n ase 4 – egg pr	oduction:	less than	85%	<u> </u>			
			00 %							
				Phase 5			1			









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DM – dry matter, OM – organic matter, CP – crude protein

2.2. Chicken broilers

2.2.	Chicken b				y be varia g/kg DM; e				f the DM not known	Period length
Feed	kg/day per animal	DM %	DM digestibility %	CP %	Р%	К%	Ash %	OM %	OM digestibility %	Days in the group
		Phase	1 – Age (in da	ys): from	to)				
										1
		Phase	2 – Age (in da	vs): from	+0	`	ı		I	
		Filase	Z – Age (iii ua	1987. 110111		,	·• 			1
										1
	<u> </u>	Phase	3 – Age (in da	ys): from	to)	 T	T	1	
		Phase	A Ago (in da	us): from	+6					
		Pnase	4 – Age (in da	ys): from	to	, 	••			-
										-
						I		1		1









-								91191	<u> </u>	. 43
Phase 5 – Age (in days): from to										

 $\ensuremath{\mathsf{DM}} - \ensuremath{\mathsf{dry}}$ matter, $\ensuremath{\mathsf{OM}} - \ensuremath{\mathsf{organic}}$ matter, $\ensuremath{\mathsf{CP}} - \ensuremath{\mathsf{crude}}$ protein

2.3. Young birds

					y be varia g/kg DM; et		Needed only if the DM digestibility is not known		Period length	
Feed	kg/day per animal	DM %	DM digestibility %	CP %	Р%	К%	Ash %	OM %	OM digestibility %	Days in the group
		Phase	1 – Age (in da	ys): from	to)		ı		
		Phase	2 – Age (in da	ys): from	to)	••			
		Phase	3 – Age (in da	ys): from	to)				
										1
		Phase	4 – Age (in da	vs)· from	to	`				









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		Phase	5 – Age (in da	vs): from	to	<u> </u>				
		1 Hase	J Age (iii da	y 3 j . 11 O 1 1 1		,				
	l .		· CD	l		l .				

DM – dry matter, OM – organic matter, CP – crude protein

3. HOUSING SYSTEMS FOR THE SEASON SPRING (normally 12 months)

3.1. Animal housing

3.1.1 Keeping technology

		Laying hens	Chicken broilers	Young birds
Loose housing	Area (m²)			
deep litter bedding	No. of starters			
Cogos	Cage size (m ²)			
Cages	No. birds per cage			
Other (describe):				

3.1.1 Manure management system

		Laying hens	Chicken broilers	Young birds
Loose housing deep litter	Average depth of litter bed (cm)			
bedding	Changing frequency			
Cake manure	Yes/no			
removed (top layer)	Changing frequency			







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Other (describe):		

3.2. Bedding material (per manure handling line)

Manure handling line	Annual consumption (m³)	DM %	Total N (kg/t)	Soluble N (kg/t)	P (kg/t)	K (kg/t)	* Specify crop species
Straw *							
Sawdust or wood shavings							
Peat							
Sand							
Rubber mat							
Other*							

^{* -} Please specify, **- If own data available

3.4. Additives to Manure / Liquid waste

Additional subst	tance	Approx. volume / quantity	Frequency	Notes
Rainwater from roofs**	Yes/No			
Water (washing, rinsing)*	Yes/No			
Other (please specify)	Yes/No			
Would it be possible to measure by installing flow meters on specific water lines?			Yes / No	

^{*} from rinsing milking areas, passageways etc., ** may be given as a water volume in m3 or as a roof area in m2 - please specify

4. MANURE STORAGE FOR THE SEASON (normally 12 months)

4.1. General questions

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7/1		ma	m	IFP

Is all manure stored

If no, how is it disposed

How much is exported or sold

Is manure imported or bought

How much is imported or bought

Yes / No

(%, t)









4.2. Solid manure storage

Concrete pad	Yes / No
Number of concrete pads in the farm	

Pad characteristics	Pad 1	Pad 2	Pad 3
Amount of solid manure stored			
[%]			
Distance to storage			
[km]			
Seepage collected			
Minimum storage capacity			
[Months]			
Heap height			
[m]			
Floor area			
[m ²]			
Storage volume			
[m³]			
Covered			
[Yes / No]			

Field heap Yes / No, Number of field heaps in the farm _____

Pad characteristics	Field heap 1	Field heap 2	Field heap 3
Heap r area			
$[m^2]$			
Heap height			
[m]			
Distance to storage			
[km]			
Covered			
[Yes / No]			









5. FARM CHARACTERISTICS FOR A GROWING SEASON (normally 12 months)

6.1. General farm questions

Mean annual air temperature for and and	_°C
Mean annual precipitation for and	mn

Field	0	Area	Soil status (if available)		e)
ID	Crop	ha	N*	P**	K**
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

^{* -} plant available; ** - Expressed as elemental form









6. MANURE QUANTITY AND QUALITY FOR THE SEASON (normally 12 months)

Ex- barn or Ex-storage*	
Analysis performed	laboratory analysis / farm analysis
Date of analysis	
Analysis frequency	
Has quality changed over time?	
Stage of manure sampling*	ex housing / ex storing
* Circle the correct answer	

7. MANURE APPLICATION FOR A GROWING SEASON (normally 12 months)

7.1. General question

Total field area available at the farm for manure spreading	ha
Portion of manure spread on fields as fertilizer	%
Amount of manure exported off-farm	tonnes
Use or fate of exported manure	
Soil nutrient analysis before spreading	Yes / No

7.2. Application of fertilizers and manures to fields (including permanent grasslands and meadows) for growing season (normally 12 months)







Total quantity of manure Volume DM ΤN NH₄-N ΤP ΤK Ash рΗ Pinorg weight (kg/t) (kg/t) (kg/t) (kg/t) produced** % (kg/t) % kg/m³ t/yr or m³/yr Solid Semi-solid Slurry Liquid manure /urine



Field ID	Crop type	Field area (ha)	Planned fertilization (manures + mineral)			Manures				Mineral fertilization			Expected	Achieved		
			N (kg)	P (kg)	K (kg)	Type ¹	Application rates (t/ha)	Distance from storage	Top dressing ²	Spreading technique ³	Incorp- oration ⁴	N (kg)	P (kg)	K (kg)	main yield (t/ha)	main yield (t/ha)
1																
2																
3																
4																
5																
6																
7																
8																
9																
10																

- 1) Slurry / urine / solid / semi-solid and animal type
- 2) Application in growing crop (check if yes)
- 3) Broadcasting / band spreading / injection
- 4) Time between application and incorporation: 0 (immediately), 1 (within 4hrs), 2 (between 4-24hrs), 3 (after 1 day), No (no incorporation)







7.3. Spreading equipment use

Transport of liquid manure and/or slurry	Farmer's own Yes / No	Number of tanks	Make model description / Volumes		
Slurry tanks					
Slurry hauling truck					
Umbilical system					
Irrigation					

Spreading of liquid manure and/or slurry	Farmer's own Yes / No	Volume [m³]	Spreading width [m]		
Buffer tank on field	,	. ,			
Band spreaders					
Injector					
Broadcaster					
Other					
Spreading of solid manure	Farmer's own Yes / No	Load [t]	Spreading width [m]		
Broadcaster					
Incorporation method					

8. FARMS WITH MANURE PROCESSING FOR THE SEASON (normally 12 months)

8.1 Portion or quantity of manure processed / treated

Solid
Semi-solid
Slurry
Liquid
Does processing occur before or after storage?



