



# Requirements for Manure Management in Latvia



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Cabinet, Regulation No. 829, Republic of Latvia, Adopted  
23 December 2014:

- **Special Requirements for the Performance of Polluting Activities in Animal Housing**

Cabinet Regulation No. 834 Republic of Latvia, Adopted 23  
December 2014:

- **Regulation Regarding Protection of Water and Soil from Pollution with Nitrates Caused by Agricultural Activity**

## Requirements for Manure Storage

- A new and reconstructed manure storage must ensure at least eight months manure keeping capacity
- Formerly built storages: \*manure storage for six months; \*liquid, semi-liquid manure and slurry - seven months
- Annex for storage capacity calculation: "Manure storage capacity calculation"
- If the livestock manure accumulates in a deep cattle-shed or the animals are constantly being held outdoors, storage is not necessary
- The construction of new or rebuilding storage for fermentation residue storage, must ensure that the volume provides a fermentation residue accumulation at least eight months

## Requirements for Solid Manure Storage

Manure allowed to store outside animal housing only:

- in exceptional cases, in coordination with the relevant regional environmental board of State Environmental Service
- till end of the transitional period when the animal shed has no adequate manure storage site according to the environmental regulations and requirements and if there is prepared a plan for fulfillment of measures and agreed with the State Environment Service

## Requirements for Solid Manure Storage

### **If <10 livestock units or <5 animal units**

- Manure should be kept in the storage place near the animal house till usage
- Storage place made of waterproof material, or at least 30 centimeters thick fluid absorbent material (straw, peat, sawdust)
- Slurry storage at specially equipped tank

## Requirements for Solid Manure Storage

- **If > 10 livestock units or > 5 animal units**
  - Livestock manure store in a manure storage, built of concrete, or concrete ground or specially fitted ball with liquid impermeable backing
  - Slurry accumulates in a special storage
  - Livestock manure accumulated in a deep cattle-shed can be stored outside of the cattle-shed no more than 24 months, the dry matter content min. 45%

# Requirements for Solid Manure Storage

- **In exceptional cases permitted manure storage outside the storage site - from 1 May to 30 September in the case renovation or rebuilding of manure storage facilities**
- **For this exceptional case, the application shall be submitted to the State Environmental service management, which:**
  - justifies exceptional case
  - indicates the unit of land cadastral designation
  - confirms manure storage facility with the requirements laid down in the manure storage outside of animal housing
  - Added Rural Support Service field block map (scale 1: 5000 or scale 1: 10 000, no older than five years)
  - on the map marked expected livestock manure storage space
  - if the operator performs manure storage renewal or modification, indicates the performance time

## Requirements for Solid Manure Storage Outside the Animal Housing

- such content of dry matter (above 30 per cent) shall be ensured for livestock manure so that it could be arranged in a pile and urine would not seep therefrom
- the quantity of solid manure in a storage area shall conform to the amount of livestock manure to be worked into the relevant field in one year
- livestock manure storage area shall not be established in a place where the slope gradient is more than five degrees in order for relief not to facilitate formation of surface run-off and release
- a base of livestock manure storage area shall be made of waterproof material or at least 30 centimetres thick absorbent material (straw, peat, chips) shall be arranged so that it could catch the liquid in manure and protect against run-off
- the base of absorbing material shall be arranged in width of two metres around the perimeter of the livestock manure pile
- the livestock manure shall be covered with protective layer of at least 2 centimetres thick absorbent material (straw, peat, chips) or waterproof material
- livestock manure storage area shall not be established at the same place, if at least three years have not passed



## ... if the existing manure storage or manure storage site do not meet the requirements

- The operator until 1 July 2015 **had** to be submitted to the Regional State Environmental Service a management plan for the transitional period of the extension of manure storage to ensure compliance with regulations.
- **Extension of the transitional period concerns the animal housing, which have solid manure:**
  - until 31 December 2016 - in the animal housing where there are more than 15 animal units, but in highly vulnerable zones – more than 10 animal units;
  - until 31 December 2017 - in the animal housing where there are from 10 to 15 animal units, but in highly vulnerable zones – from 5 to 10 animal units.
- \* **The operator who received Regional State Environmental Service issued action plan acceptance, livestock manure is allowed to store:**
  - such content of dry matter (above 30 per cent) shall be ensured for livestock manure so that it could be arranged in a pile and urine would not seep therefrom
  - or outside the animal housing 10 months of the year, installing manure storage area

## Requirements Accumulating Liquid Manure Lagoon Type Manure Storage

- the level of the base of the storage facility shall be at least 50 cm above the maximum groundwater level. If necessary, the groundwater level shall be lowered by building a drain in the base
- the base and walls of the storage facility shall be sealed with a special waterproof material, which is intended for the storage of liquid manure and the edges of which are fixed at the upper edge of the storage facility
- the storage facility shall be delimited with a fencing
- The operator provides the groundwater quality measurements (total nitrogen (N total). Separate and nitrogen (nitrate, nitrite and ammonium) and total phosphorus (P<sub>tot.</sub>). To place sampling time determined by pH).

## Indicated Data in an Inventory Journal

- the date when the covering of the floating covering layer (if any) was supplemented
- the date when livestock manure, fermentation residues or silage juice was spread on a field
- the date when livestock manure, fermentation residues or silage juice was transferred to another natural person or legal person, indicating the amount and address of a natural or legal person
- the date when solid manure was placed in a storage place outside animal housing

## Requirements when storing and using livestock manure and fermentation residues

- the amount of nitrogen applied with livestock manure in one hectare of agricultural land shall not exceed 170 kilograms per year, which conforms to 1.7 animal units
- The area of agricultural land required for the application of livestock manure shall be calculated in compliance with Annex 1 to this Regulation. (*A1: Calculation of the area of agricultural land required for the application of livestock manure*)
- The amount of nitrogen applied shall be calculated in conformity with the nitrogen content in livestock manure indicated in Annex 2 to this Regulation or in accordance with the analysis results of livestock manure or fermentation residues which have been issued by an accredited laboratory in the field of fertilisers (*A2: Amount of Acquisition of Livestock Manure and Composition Thereof*)

Cabinet Regulation No. 834 Republic of Latvia, Adopted 23 December 2014: **Regulation Regarding Protection of Water and Soil from Pollution with Nitrates Caused by Agricultural Activity**

**Cabinet of Ministers of 15 September 2009 Regulations Nr.1056 "Agricultural Products, Integrated Production , Storage and Labeling Requirements and Control Arrangements "**

4.<sup>1</sup> Based on each field soil agrochemical examination or soil analysis results, which are not older than seven years old, user develops the crop fertilization plan for each crop. Agrochemical soil analysis is carried out by a laboratory which is accredited for the appropriate field. For agricultural land, in the highly vulnerable zone, the fertilization plan shall be developed in accordance with the soil agrochemical examination or soil agrochemical analysis results, which are not older than set expiration date by laws and regulations for the protection of soil and water from agricultural pollution caused by nitrates. Crops fertilization takes place at the appropriate time with fertilizers, whose composition satisfies estimated nutrient needs by the fertilization plan.

## Cabinet of Ministers of 15 September 2009 Regulations Nr.1056 "Agricultural Products, Integrated Production , Storage and Labeling Requirements and Control Arrangements "

- 4.<sup>8</sup> User in the farm establishing an accounting system that for the appropriate field indicate the following information:
- 4.<sup>8</sup> 1. field name or number and area;
- 4.<sup>8</sup> 2. grown crop species and variety, as well as previous plants;
- 4.<sup>8</sup> 3. carry out seed or planting material preparatory measures. When used in pickle, it indicates the name, dosage, quantities processed and processing date;
- 4.<sup>8</sup> 4. sowing or planting date, seeding rate or planting density and seed depth of incorporation;
- 4.<sup>8</sup> 5. agrotechnical measures and their dates;
- 4.<sup>8</sup> 6. this regulation [4.<sup>2</sup>](#) (.) measures and their dates;
- 4.<sup>8</sup> 7. used products for fertilization and the dose of physical units, fertilizer and incorporation date;
- 4.<sup>8</sup> 8. liming or gypsum materials used dose of physical units and their incorporation date;
- 4.<sup>8</sup> 9. this regulation 4.<sup>3</sup> 1. (.) mentioned date of inspection and observations;
- 4.<sup>8</sup> 9.1. crop growth stage;
- 4.<sup>8</sup> 9.2. pest incidence;
- 4.<sup>8</sup> 10. used for mechanical, biological, agronomic or chemical plant protection measures, including the plant protection product used name, dose, area under cultivation, production date and justification
- 4.<sup>8</sup> 11. harvest date and obtained yield;
- 4.<sup>8</sup> 12. with other crop-related activities (eg. plant diagnostics feeding, watering).

## River Basin Management Plan

- Water protection and management planning document
- Develop every 6 years (2010.-2015., 2016-2021st, ...).
- Characterization of rivers, lakes, groundwater and coastal water status Identified problems, recommendations for solving
- Approved by the minister, so the plan has a recommendation status

# Thank you for attention!

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