

ICS 65.020.30

CCS B40



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 25171-2023

**Vocabulary of livestock and poultry environment and waste
management**

畜禽养殖环境与废弃物管理术语

Issued on: May 23, 2023

Implemented on: December 1, 2023

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

1 Scope	1
2 Normative references	1
3 Basic Terminology	1
6 Livestock and poultry house construction and site planning	13
20 Reference 23 index	24

Foreword

This document is in accordance with the provisions of GB/T 1:1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules for Standardization Documents" drafting: This document replaces GB/T 25171-2010 "Livestock and Poultry Waste Management Terminology" and GB/T 19525:1-2004 "Livestock and Poultry Environmental Techniques Compared with GB/T 25171-2010 and GB/T 19525:1-2004, except for structural adjustment and editorial changes, the main technical changes as follows:

- a) Delete some general terms (see 2:3, 2:7, 2:8, 2:11, 2:16, 2:17, 2:18 of GB/T 19525:1-2004, 2:1:1, 2:1:4, 2:1:5, 2:1:6, 2:2:2, 2:2:6, 2:3:5, 2:3:6, 2:3:7, 2:4:1, 2:4:2 of GB/T 25171-2010 , 2:4:3, 2:4:4);
- b) Some basic terms have been changed (see 3:1, 3:2, 3:3, 3:4, 3:5, 3:6, 3:8, 3:10, 3:11, 3:12, 3:13, 3:15, 3:16, 3:17, 3:18, 3:19, 3:20, 3:21, 2:1, 2:2, 2:4, 2:5, 2:6, 2:9, 2:10, 2:12, 2:13, 2:14 of GB/T 19525:1-2004 2:15, 2:19, 3:8:1, 2:1:2, 2:1:3, 2:2:1, 2:3:2, 2:3:3 of GB/T 25171-2010);
- c) Added the basic terms of "manure", "disease and dead livestock" and "environmental impact" (see 3:7, 3:9 and 3:14);
- d) Delete some terms of environmental quality of livestock and poultry farms (see 3:1:3, 3:1:9, 3:3:2, 3:3:7, 3:3:8, 3:4:3, 3:4:7, 3:4:12, 3:5:1, 3:5:10, 3:5:11, 3:5:14, 3:7:3, 3:7:4, 3:8:2, 3:8:3, 3:8:4, 3:8: 5, 3:8:6, 3:8:7, 3:8:8);
- e) Deleted some terms of environmental control of livestock and poultry houses (see 4:2:1, 4:2:2, 4:2:3, 4:2:6, 4:2:7, 4:2:8, 4:2:13, 4:3:1, 4:4:1, 4:4:11, 4:4:12, 4:4:13, 4:4:16, 4:5:2, 4:5:3, 4:5:6, 4:5:7, 4:6: 1, 4:6:2, 4:6:3, 4:6:4, 4:7:2, 4:7:10);
- f) Changed some terms of air thermal environment (see 4:1:1, 4:1:5, 4:1:6, 4:1:9, 4:1:11, 4:1:12, 4:1:13, 4:1:15, 4:1:16, 4:1:17, 4:1:18, 4:1:19, 4:1:20, 4:1:22, 4:1:23, 4:1:24, 4:1:25, 4:1:29, 4:1:30, 4:1:31, 4:1:32, 2:20, 2:21, 2:22, 2:23, 3:1:2, 3:1:4, 3:1:8, 3:2:1, 3:2:3, 3:2:4, 3:2:5 of GB/T 19525:1-2004 3:4:1, 3:4:2, 3:4:5, 3:4:6, 3:4:8, 3:4:9, 3:4:10, 3:4:11, 3:4:13,

4:5:5);

g) Changed some terms of light and sound environment (see 4:2:1, 4:2:2, 4:2:4, 4:2:6, 3:3:1, 3:3:3, 3:3:3 of GB/T 19525:1-2004 3:3:4, 3:3:5);

h) Some air quality environmental terms have been changed (see 4:3:2, 4:3:4, 4:3:5, 4:3:6, 4:3:7, 4:3:8, 4:3:10, 3:6:1, 3:6:2, 3:6:3, 3:7:2, 3:7:5, 3:7:6, 3:7:1 of GB/T 19525:1-2004);

i) Part of the body heat balance and its regulation terms have been changed (see 4:4:1, 4:4:2, 4:4:3, 4:4:4, 4:4:6, 4:4:8, 4:4:13, 4:4:14, 3:1:5, 3:1:6, 3:1:7, 3:5:2, 3:5:3, 3:5:4, 3:5:5, 3:5:12, 3:5:13 of GB/T 19525:1-2004);

j) Changed some terms of environmental control in livestock and poultry houses (see 4:5:1:2, 4:5:1:6, 4:5:1:7, 4:5:1:9, 4:5:1:11, 4:5:1:14, 4:5:2:1, 4:5:2:3, 4:5:2:10, 4:5:2:13, 4:5:2:15, 4:5:3:1, 4:5:3:2, 4:5:3:3, 4:5:4:8, GB/T 19525:1- 4:2:4, 4:3:2, 4:3:3, 4:3:4, 4:3:5, 3:1:1, 4:4:2, 4:5:1, 4:4:3, 4:4:17, 4:4:15, 4:1:3, 2004 4:1:1, 4:1:2, 5:4:3 of GB/T 25171-2010);

k) Changed some terminology of livestock and poultry house building and site planning, see 4:6:1:1, 4:6:1:2, 4:6:1:3, 4:6:1:4, 4:6:2:1, 4:6:2:2, 4:6:2:3, 4:6:2:5, 4:6:2:6, 4:6:3:1, 4:6:3:2, 4:6:3:3, 4:2:5, 4:2:10, 4:2:11 of GB/T 19525:1-2004 4:2:12, 4:7:1, 4:7:3, 4:7:4, 4:7:5, 4:7:6, 4:7:7, 4:7:8, 4:7:9);

l) Added some terms of air thermal environment (see 4:1:2, 4:1:3, 4:1:4, 4:1:7, 4:1:8, 4:1:26, 4:1:27, 4:1:28);

m) Added some terms of light and sound environment (see 4:2:3, 4:2:5, 4:2:7, 4:2:8, 4:2:10, 4:2:11, 4:2:12);

1 Scope

GB/T 25171-2023 fixes the vocabulary of livestock and poultry housing environment and waste management. The field brings together animal science, environmental engineering and agricultural regulation, and each arrived with its own words for the same things - manure in its various states, the liquid fraction, the solid fraction, the several composting and anaerobic treatments, the stocking and ventilation parameters that define the housing environment. When a discharge limit, a subsidy condition or a purchase specification depends on which term applies to a given material, imprecision has direct consequences: whether a producer is compliant can turn on whether their material counts as manure, slurry or wastewater. This document defines the terms related to the livestock and poultry breeding environment and to waste management, and applies to that field and to related areas. Under ICS 65.020.30 and CCS B40, it is the reference for the standards that build on it, for farm designers and equipment suppliers, for the environmental authorities regulating intensive livestock production, and for the researchers and technical writers whose work has to be read consistently across all of them.

This document defines terms related to livestock and poultry breeding environment and waste management: This document applies to livestock and poultry breeding environment and waste management and related fields:

2 Normative references

This document has no normative references:

3 Basic Terminology

1 The sum of all natural factors surrounding livestock:

Note: Including (1) air environmental factors: thermal environmental factors such as air temperature, humidity, airflow, heat radiation, air composition, harmful gases, air microorganisms, airborne (2) Water environmental factors: water source, water quality, etc.; (3) Light environmental factors: light and radiation; (4) Acoustic environmental factors: noise (5) Harmful biological factors: rats, mosquitoes, parasites and pathogenic microorganisms, etc: 3:

2 Using the principles and methods of engineering technology, the environmental control system design, environmental regulation and management and forecasting of livestock and poultry farms and livestock houses are carried out: Technical measures taken to prevent, reduce and eliminate environmental pollution, protect and improve environmental quality: 3:

3 The general term for feces, urine, sewage, livestock and poultry carcasses, waste litter, etc: produced in the process of livestock and poultry breeding: 3:

4 The general term for feces, urine, sewage, breeding litter and a small amount of scattered feed produced in the livestock and poultry breeding process:

Note: Sewage is generally flushing water mixed with feces and urine, dripping drinking water, etc: 3:5 solid manure Livestock and poultry manure with a dry matter (DM) content $\geq 15\%$: 3:6 liquid manure Livestock and poultry manure with a dry matter (DM) content $< 15\%$: