

ICS 65.020.30

CCS B 40



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

GB/T 19525-2026

Replacing GB/T 19525.2-2004

**Technical specification for the environmental quality evaluation
of livestock and poultry breeding**

畜禽养殖环境质量评价技术规范

Issued on: March 31, 2026

Implemented on: October 1, 2026

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

Table of Contents

1	Scope
4	Evaluation Procedure
4.1	Survey Preparation
5	Evaluation Factors
6	Environmental monitoring
6.1	Sampling Location
6.2	Sampling Frequency
6.3	Analytical Methods
6.3.1	NH
6.3.4	PM
7	Environmental Quality Assessment
7.1	Environmental Quality Pollution Index Assessment
7.2	Data Validity and Rounding
7.3	Environmental Quality Classification

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1. Structure and Drafting Rules of Standardization Documents". Drafting. This document replaces GB/T 19525.2-2004 "Environmental Quality Assessment Criteria for Livestock and Poultry Farms". Compared with GB/T 19525.2-2004, except for the conclusion... Aside from structural adjustments and editorial changes, the main technical changes are as follows:

- a) The scope of application has been changed (see Chapter 1, Chapter 1 of the 2004 edition);
- b) Terms and definitions have been changed (see Chapter 3, Chapter 2 of the 2004 edition);
- c) The evaluation procedure has been changed (see Chapter 4, Chapter 3 of the 2004 edition);
- d) Evaluation factors have been added (see Chapter 5 and Appendix B);
- e) Environmental monitoring has been added (see Chapter 6);

- f) The environmental quality assessment was revised (see Chapter 7, Chapter 4 of the.2004 edition);
- g) Engineering analysis has been removed (see Chapter 5 of the.2004 edition);
- h) The survey and evaluation of the current status of environmental quality in the areas where livestock and poultry farms are located has been deleted (see Chapter 6 of the.2004 edition);
- i) The environmental quality impact assessment of livestock and poultry farms has been deleted (see Chapter 7 of the.2004 edition);
- j) The environmental quality assessment conclusions have been deleted (see Chapter 8 of the.2004 edition);
- k) Added record information (see Chapter 8);
- l) The outline for environmental quality assessment of livestock and poultry farms (see Appendix A of the.2004 edition) has been deleted. Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed by the Ministry of Agriculture and Rural Affairs of the People's Republic of China. This document is under the jurisdiction of the National Technical Committee on Standardization of Animal Husbandry (SAC/TC274). This document was drafted by: Institute of Agricultural Environment and Sustainable Development, Chinese Academy of Agricultural Sciences; National Animal Husbandry Service; and Sichuan Provincial Animal Husbandry Science Center. Research Institute, Muyuan Foods Co., Ltd., Swine Technology Innovation Center (Chongqing), Zhejiang Provincial Animal Husbandry Technology Extension and Breeding Livestock Monitoring Station. The main drafters of this document are. Zhu Zhiping, Wang Yue, Fu Min, Hu Xiaoshan, Zhao Xiaoli, Qi Renli, Shang Bin, Yan Ting, Lai Jingwen, Liu Wen, and Zheng Yunhao. Wei Sha, Wang Chuan, Jian Yue, Ying Yongfei. The release history of this document and the document it replaces is as follows:

1 Scope

GB/T 19525-2026 is the Chinese national standard covering assessing the environment inside and around a livestock unit - the air quality, ammonia and dust in the house, the noise and odour at the boundary, the water and the soil where manure is applied. It replaces GB/T 19525.2-2004 and has been in force since 1 October 2026. It was issued on 31 March 2026 and takes effect on 1 October 2026, replacing GB/T 19525.2-2004. The document is under the responsibility of the Ministry of Agriculture and Rural Affairs. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the evaluation procedures, evaluation factors, environmental monitoring, environmental quality assessment, and recording for large-scale livestock and poultry farms. This document applies to the environmental quality assessment of large-scale livestock and poultry farms and surrounding areas.

4.1 Survey Preparation

4.1.1 Review relevant laws, regulations, policy documents, technical guidelines and standards.

4.1.2 Based on the requirements of the evaluation task, determine the evaluation boundaries and formulate an evaluation work plan.

4.1.3 Conduct on-site investigations of the basic conditions of the farms and collect information on local natural and social conditions as well as basic information on the livestock farms.

4.1.4 Preliminary analysis of the characteristics and environmental status of livestock and poultry farm construction projects.

4.2 Environmental Monitoring Based on the evaluation work plan and preliminary analysis results, environmental elements were identified, evaluation factors were determined, and monitoring time, site selection, and methods were specified. Conduct on-site monitoring.

4.3 Data Analysis The monitoring data is analyzed, and an evaluation is made based on relevant standards and quality grading criteria.

4.4 Report Preparation The environmental quality assessment report for livestock and poultry farming should summarize and generalize all assessment work, and the text should be accurate and concise, making full use of figures, tables, and other visual aids. The photos clearly present the arguments and are easy to read and review. The content and format of the livestock and poultry breeding environment quality assessment report are shown in Appendix A.

5 Evaluation Factors

Based on the evaluation objective, the corresponding evaluation factors should be determined from Appendix B.

6.1 Sampling Location

6.1.1 Determination of sampling locations for air and sound environment in the dormitory area For naturally ventilated livestock sheds, sampling points should be located in the center of the shed and downwind of the shed, near the ventilation openings; for mechanically ventilated livestock sheds... Sampling points should be located in the center of the poultry house and at the exhaust vents. The sampling height should be determined

based on the type of livestock and poultry and the feeding process. The height should be located at the average height of the livestock and poultry activity area, and at least two sampling points should be arranged at each sampling location.

6.1.2 Determination of Air Environment Sampling Locations in the Site Sampling was conducted using a grid-based sampling method, dividing the ground outside the livestock and poultry sheds into several uniform grid squares, with sampling points set along two straight lines. At the intersection or center of the grid, the sampling point should be at least 1m above the ground.

6.1.3 Determination of Air Environment Sampling Locations in Waste Treatment Areas Sampling was conducted using a fan-shaped sampling method, with the center of the waste treatment area as the vertex and the prevailing wind direction as the axis, and a field was drawn on the ground downwind. A sector-shaped area is designated as the sampling area, and the sampling points are at least 1m above the ground.

6.1.4 Determination of water environment sampling locations in waste treatment areas The specific sampling shall be determined according to the treatment and utilization destination of liquid manure from livestock and poultry farms, and shall be carried out in accordance with the provisions of GB/T 27522.

6.2 Sampling Frequency

6.2.1 The sampling frequency for air environment and sound environment shall be no less than 3 times, and the sampling interval shall be no less than 4 hours.

6.2.2 The frequency of water environment sampling in the waste treatment area shall be in accordance with the provisions of GB/T 27522.

6.3.1 NH

3 Implement in accordance with the provisions of HJ533.

6.3.2 H₂S Perform in accordance with the provisions of GB/T 11742.

6.3.3 Foul Odor Implement in accordance with the provisions of HJ1262.

6.3.4 PM

10 Implement in accordance with the provisions of HJ618.

6.3.5 TSP It shall be implemented in accordance with the provisions of GB/T 15432.

6.3.6 Total bacterial count Perform in accordance with the provisions of GB/T 18204.3.

6.3.7 Noise Perform in accordance with the provisions of GB/T 18204.1.

6.3.8 COD Implement in accordance with the provisions of HJ/T 399.