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

GB/T 45196-2025

**Technical guidelines for environmental quality survey of
agricultural production areas**

农产品产地环境质量调查技术指南

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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. Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the 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 was prepared by the National Technical Committee on Soil Quality Standardization (SAC/TC404) and the National Technical Committee on Environmental Management Standardization (SAC/TC207) jointly managed. This document was drafted by: Soil and Agricultural Rural Ecological Environment Supervision Technology Center of the Ministry of Ecology and Environment, Agricultural Ecology and Resources of the Ministry of Agriculture and Rural Affairs Conservation Center, Institute of Geographic Sciences and Natural Resources Research, Chinese Academy of Sciences, Chinese Academy of Environmental Sciences, Information Technology Research Institute, Beijing Academy of Agricultural and Forestry Sciences center. The main drafters of this document are: Shi Huading, Zheng Shunan, Yang Jun, Sun Zaijin, Xu Jingwen, Guo Rui, Liu Hanbing, Fan Feiyue, Ma Jin, Du Ping, Gao Yunbing, Zhao Long, Liu Jing, and Li Li. Technical Guidelines for Surveying Environmental Quality of Agricultural Product Origin

1 Scope

GB/T 45196-2025 gives the Chinese technical guidelines for surveying the environmental quality of agricultural production areas. The programme behind it is one of the largest environmental exercises China has undertaken: after the national soil survey found significant areas of farmland contaminated with cadmium and other metals, production areas have to be surveyed and classified so that land can be designated for unrestricted production, for restricted production or for withdrawal from food cropping. The standard sets the survey objectives and scope, the preparation and the collection of existing data, the design of the sampling, the grid and its density and the siting of points, the sampling of soil, irrigation water, air and the crop itself, the handling and analysis of the samples and the

parameters determined, the quality assurance and quality control, the evaluation of the results against the risk screening and control values, and the classification, mapping and reporting. It takes effect on 1 May 2025.

This document provides guidance and suggestions on the environmental quality survey procedures for agricultural product production areas, and gives information on data collection and field surveys, survey units, Division, point layout, sample collection, sample analysis and testing, survey result analysis, survey results compilation, data management and other related information. This document is applicable to the environmental quality survey of agricultural product production areas in the planting industry.

2 Normative references

The contents of the following documents constitute the essential clauses of this document through normative references in this document. For referenced documents without a date, only the version corresponding to that date applies to this document; for referenced documents without a date, the latest version (including all amendments) applies to This document.

GB/T 7714 Information and bibliographic references - Rules for the description of bibliographical information
DZ/T 0289 Regional Eco-geochemical Evaluation Specification
HJ/T 166 Technical Specification for Soil Environmental Monitoring

NY/T 396 Technical Specification for Monitoring Environmental Quality of Agricultural Water Sources

NY/T 398 Technical Specification for Pollution Monitoring of Agricultural, Livestock and Aquatic Products

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Areas related to the production of plants, animals, microorganisms and their products.

Note. Mainly includes agricultural land for growing cereals, beans, fruits, vegetables, nuts and oil crops, agricultural land for providing soil cover for cultivating edible fungi, and Agricultural land for growing crops used as livestock and poultry feed or as a substrate for growing edible fungi. [Source: GB/T 42819-2023, 3.1]

3.2 The quality status of environmental factors such as soil, irrigation water, and atmospheric deposition in the production areas of agricultural products.

3.3 Survey unit survey unit Based on factors such as soil pollution pathways and characteristic pollutant types, administrative divisions, topography, crop types and farming methods, etc. Survey areas divided by sex.

3.4 The process by which pollutants such as heavy metals and particulate matter in the atmosphere settle to the ground or water in the form of precipitation or dust fall.

Note. Includes atmospheric dry deposition and atmospheric wet deposition.

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