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

GB/T 45038-2024

Directives for comprehensive utilization of gramineous grass

禾草综合利用技术导则

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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 is proposed and coordinated by the China Federation of Supply and Marketing Cooperatives. This document was drafted by: Beijing Academy of Agricultural and Forestry Sciences, Anhui Deqiao Environmental Science and Technology Research and Development Co., Ltd., China Renewable Resources Recycling Association, National Animal Husbandry Station, Sichuan Agricultural University, Jiangsu Academy of Agricultural Sciences, China Agricultural University, Clover (Beijing) Ecological Science Technology Co., Ltd., Yantai Institute of Coastal Research, Chinese Academy of Sciences, Institute of Tropical Crops Resources, Chinese Academy of Tropical Agricultural Sciences, Institute of Applied Ecology, Shenyang, Institute of Plateau Forestry, Chinese Academy of Forestry, Ningxia University, Binhai Agriculture, Hebei Academy of Agricultural and Forestry Sciences Institute, Shandong Rongda Agricultural Development Co., Ltd., Jinan Donglin Landscaping Engineering Co., Ltd., Gansu Academy of Agricultural Sciences Livestock Grass and Green Agricultural Research Institute, National Salt-Alkali Land Comprehensive Utilization Technology Innovation Center, Qingdao Agricultural University, and Beijing Blue Ocean Yineng New Energy Group Co., Ltd. The main drafters of this document are. Hou Xincun, Fan Xifeng, Zhao Chunqiao, Yue Yuesen, Guo Demei, Cao Yang, Guo Qiang, Li Cui, Teng Ke, Lu Anxiang, Teng Wenjun, Han Liying, Sun Tiejun, Mu Na, Zhang Hui, Wei Zunzheng, Liu Xueqing, Liu Lingyun, Wen Haifeng, Zhou Li, Zheng Mei, Wang Jiating, Huang Linkai, Zhou Shufeng, Zhong Xiaoxian, Shao Xinqing, Wang Zan, Hou Pai, Wang Guangmei, Song Weimin, Dong Rongshu, Wang Wenqiang, Tang Jun, Ding Xipeng, Luo Jiajia, Chen

Longchi, Sun Yongyu, Liu Jili, Sun Yu, Hu Aishuang, Guo Wenjing, Xing Chunqiang, Zuo Haitao, Li Ping, Zeng Jia, Liu Muye, Chen Xin, Xu Wenyue, Liu Liguang, Huang Jie, Wang Juying, Zhang Mengyang, Yuan Lei, Sui Chao. Technical Guidelines for Comprehensive Utilization of Grasses

1 Scope

GB/T 45038-2024 gives the technical guidelines for the comprehensive utilisation of grasses. China has very large areas of grassland and of marginal land planted to grass for erosion control, and the same species can be used as forage, as bedding, as biomass fuel, as raw material for paper or board, or as a feedstock for biorefining, with the choice depending on the stand, the season and the market rather than on the plant. The standard sets the general principles, the planning of utilisation, the methods of utilisation themselves, and the evaluation and improvement of what has been done, with an informative annex recommending the utilisation methods appropriate to the common grass species. It takes effect on 1 June 2025.

This document establishes the general principles for the comprehensive utilization of grasses and stipulates the requirements for utilization planning, utilization methods, evaluation and improvement. This document applies to the comprehensive utilization of grasses. This document does not apply to cereal crops and their wild ancestral species, or bamboo plants.

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 27796 Straw plant boards for construction

GB/T 33891 Organic substrates for greening

HJ468 Clean Production Standard Papermaking Industry (Waste Paper Pulping)

NY/T 525 Organic Fertilizer

NY/T 2118 Vegetable seedling medium

NY/T 3840 Technical specification for planting and utilization of green manure in rice fields in southern China
NY5099 Safety technical requirements for cultivation substrates of pollution-free edible fungi
QB/T 2934 Straw products
SB/T 11183 Technical Specification for Processing of Chinese Medicinal Materials

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Gramineousgrass A herbaceous plant of the family Gramineae.

Note. It is divided into two categories. natural grass and artificially planted grass.

3.2 According to the grass species, resource distribution and artificial planting conditions, appropriate diversified utilization methods should be applied to make full use of grass resources.

4 General Principles

4.1 Regional Differentiation Adhere to the principle of adapting measures to local conditions, based on local soil and climate conditions, grass species, resource distribution, artificial planting conditions, and regional market needs. Determine the appropriate way to use it.