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

GB/T 45211.6-2025

**Technical code of practice for evaluation of resistance to
diseases and insect pests in wheat - Part 6: Barley yellow dwarf**

小麦抗病虫性评价技术规程 第6部分：黄矮病

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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.

This document is part 6 of GB/T 45211 Technical Specification for Evaluation of Disease and Pest Resistance of Wheat. GB/T 45211 has been published as follows part.

- Part 1: Stripe rust;
- Part 2: Leaf rust;
- Part 3: Stem rust;
- Part 4: Fusarium fusarium;
- Part 5: Sheath blight;
- Part 6: Yellow dwarf disease;
- Part 7: Aphids;
- Part 8: Midges.

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 Ministry of Agriculture and Rural Affairs of the People's Republic of China.

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Introduction

GB/T 45211 "Technical Procedures for Evaluation of Wheat Disease and Insect Resistance" aims to standardize the technical methods, operating procedures and identification of wheat disease and insect resistance.

Evaluation principles provide standardized technical methods for breeding material screening, hybrid offspring selection, disease resistance gene discovery and variety evaluation and approval.

The method plays an important role in guiding and promoting disease-resistant breeding, variety layout and plant quarantine of wheat in China.

GB/T 45211 is divided into the following 8 parts.

- Part 1: Stripe rust;
- Part 2: Leaf rust;
- Part 3: Stem rust;
- Part 4: Fusarium fusarium;
- Part 5: Sheath blight;
- Part 6: Yellow dwarf disease;
- Part 7: Aphids;
- Part 8: Midges.

Technical regulations for evaluating wheat disease and insect resistance Part 6: Yellow dwarf disease

1 Scope

This document defines the terms and definitions of wheat yellow dwarf disease resistance evaluation technology, establishes the evaluation procedures, and specifies the inoculum preparation, identification The contents of setting, disease investigation, resistance

evaluation, etc. are described, and the verification method is described.

This document applies to the field identification and evaluation of resistance to yellow dwarf disease in wheat plants.

2 Normative references

This document has no normative references.

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Symptoms include yellowing leaves, dwarfing of plants, and reduced tillering.

3.2 disease resistance

A heritable trait in plants that can reduce or overcome the pathogenic effects of pathogens.

3.3 Pathogenicity

The ability of pathogens to interfere with host growth and cause disease.

3.4

The process of placing the inoculum into the diseased part of the plant through artificial operation under suitable conditions and causing it to become diseased.

3.5

A description of the degree of response and level of resistance of a plant host to a specific disease, as determined by the adopted technical criteria.

3.6 strain

Serologically related isolates of the same virus obtained from different diseased plants show different pathogenicity to different varieties.

3.7 Inoculum

A pathogen that can infect a host and cause disease.

3.8 Severity rating diseaserating scale

Artificially quantified numerical description of the degree of disease in individual plants or

groups.

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