

ICS 65.020
CCS B 66

LY

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

LY/T 3004.2-2018

Walnut - Part 2: Standard of walnut breeding

核桃标准综合体 第2部分：核桃良种选育标准

(English Translation)

Issued on: December 29, 2018

Implemented on: May 1, 2019

Issued by: State Forestry and Grassland Administration

Table of Contents

- Foreword
- 1 Scope
- 2 Normative references
- 3 Introduction
- 3.1 Quarantine
- 3.2 Test species
- 4 Breeding routes
- 4.1 Seed selection

Foreword

LY/T 3004 "Walnut" is divided into the following 8 parts.

- Part 1. Terminology of walnuts;
- Part 2. Breeding standards for walnut varieties;
- Part 3. Cultivation and grading standards for walnut grafted seedlings;
- Part 4. Technical regulations for high-quality and high-yield cultivation of walnuts;
- Part 5. Technical rules for the improvement of walnuts;
- Part 6. Walnut harvesting and post-harvest treatment;
- Part 7. High-yield indicators of walnut nuts;
- Part 8. Quality and testing of walnut nuts.

This part is the second part of LY/T 3004.

This part is drafted in accordance with the rules given in GB/T 1.1-2009.

This part is proposed and managed by the National Technical Committee for Standardization of Economic Forest Products (SAC/TC557).

This section drafted by. Forestry Research Institute of Chinese Academy of Forestry, Department of Afforestation and Management of National Forestry and Prairie Bureau, National Forestry and the grassland bureau state-owned forest farm and forest seedling work station, China Economic Forestry Association, Beijing Forestry Fruit Science Research Institute, Hubei Linyi Agricultural Science Technology Co., Ltd.

1 Scope

This part of LY/T 3004 stipulates the breeding route, clonal determination, regional test and improved seed index of walnut varieties.

This section applies to the selection of walnut varieties.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article.

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 26909 Plant Variety Specificity, Consistency, Stability Test Guide Walnut LY/T 3004.3-2018 Walnut Part 3. Cultivation and grading standards for walnut grafted seedlings LY/T 3004.4-2018 Walnut Part 4. Technical specification for high quality and high yield cultivation of walnut Plant Quarantine Regulations (Forestry Section) (Forestry Order No. 4)

3.1 Quarantine

For the introduction of grafted seedlings or scions, especially from abroad, strict quarantine is required, in accordance with the Phytosanitary Regulations (Forestry Regulations) Part) "Execution.

3.2 Test species

For the improved varieties introduced from areas with large differences in ecological environment or abroad, select representative plots for small-area trials, grafting seedlings There are 10 to 15 strains, and 6 to 10 strains are needed for the high tree. For the continuous observation of the quality of the nuts, high yield, etc. 3a, the areas with excellent performance are carried out.

test. For those who do not adapt to the local ecological environment, the trials should be eliminated or terminated in time.

For the improved varieties introduced from the ecological environment, the regional trials can be carried out without trial.

4.1.1 Primary selection

According to the improved seed index (Table 1 to Table 4), the nut quality, high yield, disease resistance and other traits of the individual plants were observed continuously for 3 years.

Compared with standard elites, more than one trait has a significant advantage and is identified as an excellent individual.

4.1.2 Check

For the first selected elite plants, the clones were tested according to Chapter 5. According to the test results, the consistency and stability are selected to meet the breeding objectives.

Excellent clones, as a superior system test.