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**LY**

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

**LY/T 1941-2011**

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**Carya illinoensis**

美国山核桃栽培技术规程

**(English Translation)**

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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 of Standardization Documents"

drafted.

This document replaces LY/T 2315-2014 "Technical Regulations for Cultivation of Pecan Seedlings", LY/T 2433-2015 "Hickory Pecan "Technical Regulations for the Construction of Ear-picking Nurseries", LY/T 1941-2011 "Technical Regulations for Cultivation of American Pecans" and LY/T 2703-2016 "Hickory Pecans" Peach Nut and Kernel Quality Ratings. With LY/T 2315-2014, LY/T 2433-2015, LY/T 1941-2011, LY/T 2703-Compared with 2016, the main technical changes except editorial changes are as follows.

- a) The Chinese name of the species is unified as "Hickory Pecan";
- b) Integrate LY/T 2315-2014 and LY/T 2433-2015 into Chapter 5;
- c) Include LY/T 2433-2015 cutting orchard construction technology into 5.1;
- d) Include LY/T 2315-2014 seedling cultivation into 5.2;
- e) Added the technical content of rootstock seedling container cultivation (see 5.4.1.3);
- f) Optimized the management technology of the ear-picking orchard, and deleted the general technical content of the ear-picking orchard construction (see 5.1, LY/T 2433-2015 Chapters 4~8);
- g) The classification of seedlings has been deleted, and the cultivation techniques of grafted container seedlings and the classification standards of quality grades of grafted container seedlings have been added (see 5.3, Chapter 9 of LY/T 2315-2014);
- h) The overall technical content of LY/T 1941-2011 has been comprehensively revised and incorporated into Chapter 6;
- i) The general and routine technical requirements or methods in LY/T 1941-2011 are deleted, and the relevant current technical standards are quoted instead (see Chapter 6, Chapters 4 and 5 of LY/T 1941-2011);
- j) The digging specifications and planting density have been revised (see 6.2, 6.4, 5.2 and 5.9 of LY/T 1941-2011);
- k) Added the technical content related to the cultivation mode of both fruit and wood (see 6.4.2, 6.4.3);
- l) The application content of zinc and other trace element fertilizers has been increased (see 6.5.2);
- m) Added the content of assisted pollination technology to promote fruit setting (see 6.5.5);
- n) The content of LY/T 2703-2016 was revised and supplemented and incorporated into Chapter 7;
- o) Added the chapter "Hickory Harvesting and Handling" (see 7.1);

- p) Refinement of product classification character index limits (see 7.3.2 Table 7.1, Table 7.2);
- q) The measurement method of relevant graded trait indicators has been added (see 7.3).
- r) Integrate Table A.1 in Appendix A and Table B.1 in Appendix B of LY/T 1941-2011, and amend and supplement it as Appendix A;
- s) Integrate Table C.1 and Table C.2 in Appendix C of LY/T 1941-2011, and amend it as Appendix B.

## Introduction

Pecans are excellent nuts and woody oilseeds. In order to ensure the scientific, orderly and standardization of pecan production activities, improve the production and management level of pecan shells, promote the high-quality and efficient development of the industry, and ensure the breeding, seedling breeding, cultivation management, and harvesting management of pecan shells "Shell Pecan" aims to establish the basic technical specifications applicable to the production of pecans, and to provide all-round technical support for the production of pecans.

---Breeding techniques for improved varieties, the purpose is to establish the technical specifications for the improvement activities of pecan varieties.

--- Seedling breeding technology, the purpose is to establish the technical specifications for the breeding activities of pecan varieties seedlings.

---Cultivation management technology, the purpose is to establish the technical specifications of the pecan planting and field management.

---Fruit harvesting and nut quality grading, the purpose is to standardize the fruit harvesting technology and nut grading index of pecan shell.

shell pecans

## 1 Scope

Experiments, construction of ear-picking orchards, seedling breeding, quality grading of seedlings, selection and planning of plantations, arrangement and digging of gardens, selection and matching of planting varieties technology for planting, woodland and tree management, fruit harvesting and processing, quality inspection and grading of nuts and kernels, product packaging, transportation and storage, etc.

Require.

This document is applicable to the selection of high-quality pecan seeds, seedling production, planting and management, fruit harvesting, quality classification of nuts and

kernels, and Product storage and transportation.

## 2 Normative references

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, dated citations documents, only the version corresponding to that date applies to this document; for undated references, the latest edition (including all amendments) applies to this document.

GB 5009.3 National Food Safety Standard for Determination of Moisture in Food GB 5009.5 National Food Safety Standard for Determination of Protein in Food GB 5009.6 National Food Safety Standard for Determination of Fat in Food GB 5009.227 National Food Safety Standard for Determination of Peroxide Value in Food GB 5009.229 National Food Safety Standard Determination of Acid Value in Food GB/T 5491 Grain and Oilseeds Inspection Sampling and Sampling Method GB 6000 Quality classification of seedlings of major afforestation tree species GB/T 6001-1985 Technical Regulations for Raising Seedlings GB/T 8321 (all parts) Guidelines for the rational use of pesticides GB 15618 Soil Environmental Quality Agricultural Land Soil Pollution Risk Control Standard (Trial) GB/T 15776 Afforestation Technical Regulations GB/T 16620 Terminology for Tree Breeding and Seed Management LY/T 1000 Container Seedling Technology HJ/T 332 Environmental Quality Evaluation Standard of Edible Agricultural Products Origin

## 3 Terms and Definitions

The terms and definitions defined in GB/T 16620 and the following apply to this document.

Nut yield, high quality, fast growth, good quality varieties.

budbranchingability

The ability of branch buds to germinate into branches was judged by the percentage of new branches with a length greater than 20cm in the total number of buds.