

ICS 65.020.40
CCS B 64

LY

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

LY/T 1824-2009

Cultivation technical regulations of slash pine and loblolly pine

火炬松速生丰产林

(English Translation)

Issued on: November 30, 2022

Implemented on: April 1, 2023

Issued by: State Forestry and Grassland Administration

Table of Contents

Preface
1 Scope
2 Normative references
3 Terms and Definitions
4 Composition of slash pine and loblolly pine cultivation technology program
5 Cultivation division
6 Cultivation goal
6.1 Timber forest
6.2 Resin mining forest
6.3 Shelter forest
7 Seedlings
7.1 Seed
7.1.1 Tree species selection
7.1.2 Seed requirements
7.2 Seedlings
7.2.1 Seedlings
7.2.2 Clonal seedlings
7.2.3 Seedling selection
7.2.4 Lifting and transporting seedlings
8 Forestation
8.1 Selection of afforestation sites
8.2 Afforestation operation design
8.3 Site preparation
8.3.1 Forest clearing
8.3.2 Land preparation methods
8.4 Planting
8.4.1 Planting time
8.4.2 Planting density
8.4.3 Planting method
8.4.4 Base fertilizer
9 Young forest tending management
9.1 Vegetation Control

- 9.1.1 Physical method control
- 9.1.2 Chemical method control
- 9.2 Young forest top dressing
- 10 Middle-aged forest thinning and tending
 - 10.1 Thinning
 - 10.1.1 Timber forest
 - 10.1.2 Resin mining forest
 - 10.1.3 Sanitation
 - 10.2 Topdressing
- 11 Turpentine Collection
- 12 Pest Control
- 13 Master Cutting Update
 - 13.1 Main cutting age
 - 13.2 Main logging update technology
 - 13.2.1 Clear cutting
 - 13.2.2 Selective cutting
 - 13.2.3 Update
- 14 Inspection and acceptance and file management
 - 14.1 Inspection and acceptance
 - 14.2 File Management
- Appendix A (Normative) Seedling cultivation of slash pine and loblolly pine
- Appendix B (Normative) Cultivation of Slash Pine Twig Cutting Seedlings
- Appendix C (Normative) Principles of Forest Land Selection for Timber Forest and Resin Extraction Forest
- Appendix D (informative) Main pests and diseases of slash pine and loblolly pine and their control methods

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 replaces LY/T 1824-2009 "Fast-growing and High-yielding Forest of Loblolly Pine" and LY/T 1528-2016 "Cultivation Techniques of Fast-growing and High-yielding Pinus "Technical Regulations" and LY/T 3066-2018 "Technical Regulations for Slash Pine Cuttage Seedlings", and LY/T 1824-2009, LY/T 1528-Compared with LY/T 3066-2018 in 2016,

except for structural adjustment and editorial changes, the main technical changes are as follows.

- a) The section "Division of Cultivated Climate Zones" is deleted (see 3.1 of LY/T 1824-2009 and 3.1 of LY/T 1528-2016, See Chapter 5, Table 1);
- b) Changed the division of cultivation areas (see Table 1 in Chapter 5);
- c) Changed the breeding objectives of two tree species (see Chapter 1; 8.3 of LY/T 1824-2009 and Chapter 4 of LY/T 1528-2016, 4.3; see 6.1, 6.2 and 6.3);
- d) The division of target species of timber forests has been added (see 6.1);
- e) The technical measures for cutting cultivation of asexual seedlings have been added (see 7.2.2 and Appendix B);
- f) The technical points of stand management of different stand ages have been added (see 9.1, 10.1);
- g) The key points of cultivation and management techniques for resin harvesting forests have been added (see 10.1.2 and Chapter 11).

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

It stipulates the selection of cultivation areas for two tree species, the selection of afforestation varieties and seedling cultivation, afforestation, young forest tending management, pine resin collection, pest control, main Operation instructions for steps such as logging and updating, as well as transition conditions between the above steps, and traceability methods such as cultivation goals and file management are described.

This document is applicable to the plantation of slash pine and loblolly pine in the cultivation area.

2 Normative references

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

GB 6000 Quality classification of seedlings of main afforestation species GB 7908 Forest tree seed quality classification GB/T 15776 Afforestation Technical Regulations LY/T 1882 Technical Regulations for Tree Tissue Culture Seedlings LY/T 2496 Technical Regulations

for Shelterbelt Management LY/T 2498 Technical Regulations for Construction of Shelterbelt System

3 Terms and Definitions

This document does not have terms and definitions that need to be defined.

4 Composition of technical program for slash pine and taeda pine

The breeding technology program of slash pine and loblolly pine includes 11 stages (programs). Among them, the control of diseases and insect pests needs to be selected in stages 5, 8, 9, and 10.

Select the action to perform. In the 9th stage of "middle-aged forest thinning and tending", the stand does not harvest fat, and skips stage 10 and enters stage 11 directly. program flow the process diagram is shown in Figure 1.