

ICS 65.020.40  
CCS B 64

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

**LY/T 3173-2020**

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**Technical regulations for cultivation of fast-growing and  
high-yielding plantation of southern black poplar**

南方型黑杨速生丰产林培育技术规程

**(English Translation)**

**Issued on: March 30, 2020**

**Implemented on: October 1, 2020**

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**Issued by: State Forestry and Grassland Administration**

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## Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard was proposed by the State Forestry and Grassland Administration this standard is under the centralized management of the National Afforestation Standardization Technical Committee (SAC/TC385).

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Technical Regulations for Cultivation of Southern Type Black Poplar Fast-growing and High-yield Forest

## 1 Scope

This standard specifies suitable cultivation areas, cultivation goals and growth indicators, cultivation techniques, harvesting renewal, and inspection of southern black poplar fast-growing and high-yielding forests.

Technical measures such as inspection and acceptance and file management.

This standard applies to the cultivation of fast-growing and high-yielding black poplar forests in the middle and lower reaches of the Yangtze River, Jianghuai and Huanghuai Plains in my country.

## 2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 6001 Technical Regulations for Nursery GB/T 6000 Seedling quality classification of main afforestation tree species GB/T 15776 Technical Regulations for Afforestation LY/T 1895 Technical Regulations for Oriented Cultivation of Poplar Fast-growing and High-yield Timber Forest LY/T 1896 Technical Regulations for Afforestation of Southern Type Poplar Fiber Timber Forest

## 3 Terms and definitions

The following terms and definitions apply to this standard.

Southern black poplar the provenance, family, or clone of the American black poplar (*Populus deltoides*) originating from southern Central America (Aigeiros), and its relationship with European and American poplar clones produced by European black poplar hybridization are suitable for the cultivation of germplasm resources in the middle and lower reaches of the Yangtze River, Jianghuai and Huanghuai Plains in my country the general term.

Fiber timber

Refers to the medium and small diameter wood raw materials used to make pulp, paper, fiberboard, etc. based on the properties of wood fibers.

#### Structural timber

Refers to large-diameter wood materials with a diameter at breast height of 26cm or more based on the physical and mechanical properties of wood used to manufacture log load-bearing components.

#### Beach land

Especially refers to the middle and lower reaches of the Yangtze River, the Jianghuai River Basin and parts of the Huanghuai River Basin, beaches, river beaches, lake beaches and beaches.

Pruning verticillate branches according to tree-age Cultivate a specific age of large-diameter structural timber to thoroughly prun the net consumption branches and dead branches in the same round at the bottom of the trunk of the tree.

Branch method.

### 4 Suitable cultivation area

According to the site conditions of the main cultivation areas and the adaptation status of the forest trees, the suitable area for southern black poplar can be divided into type I suitable area and type II more suitable area the two types of cultivation areas are shown in Table 1.

### 5 Cultivation goals and growth indicators

See Table 2 for different cultivation goals and growth indicators.

#### 6.1 Selection of afforestation land

It is advisable to choose plains or valleys with flat terrain, deep and fertile soil, good soil structure, adequate water sources, and convenient drainage or when continuous flooding for beach land with no more than 30 days, the soil pH value is 6.5 to 8.0. The site index for cultivating fiber materials should be above 16 index level, and the annual average groundwater level should be greater than 1.0m. The site index of cultivated structural timber should be above 18 index level, and the annual average groundwater level should be greater than 1.5m.

#### 6.2 Selection of suitable varieties

Follow the GB/T 6001 species selection principle, should be selected by the national or provincial forest species review committee (approved), and adapted for southern black poplar varieties within a specific cultivation area, the main varieties can be implemented in accordance with Appendix A. Promote multi-species afforestation.

### **6.3.1 Seedling specifications**

It is advisable to adopt 1-year-old cutting seedlings or 2-year-old rooting 1-year-old dry cutting seedlings for afforestation. The quality standards of seedlings should meet the requirements of GB/T 6000, among which, the afforestation of seasonal flooded beaches shall be afforested with grade I seedlings, and shall be implemented in accordance with Appendix B.

### **6.3.2 Seedling selection**

It is advisable to use locally produced qualified seedlings for afforestation. When the local seedlings cannot meet the needs, the qualified seedlings shall be transported for afforestation according to the nearby principle.

### **6.3.3 Seedling treatment**

Pruning and soaking the seedlings before planting. The soaking time is 5 to 7 days. It is advisable to use flowing clean water. The minimum soaking depth should reach About 1m above the base of the seedlings. In case of drought, the flooding time can be extended appropriately.

## **6.4 Cleaning up afforestation land**

Fully clean up plains, beaches and other sites by mechanical shrub cutting, etc.; low mountain and hilly valleys are cleaned in strips with a bandwidth of 1.5m~ 2.0m. The height of the residue after cleaning should be less than 20cm.

### **6.5.1 Site preparation time**

Site preparation should be carried out in the autumn or winter of the year before afforestation.

### **6.5.2 Site preparation method**

It is advisable to use full reclamation for land preparation on plains, beaches and other sites, with a depth of 30cm~50cm, and use planting hole specifications for seedling afforestation 60cmx60cmx80cm. Drainage ditch shall be excavated at intervals of 50m~80m along the direction of the water flow on the beach land, which shall be determined according to the drainage situation.

The low-mountain and hilly valleys should adopt horizontal strip land preparation. The width of the horizontal belt is 1.5m~2.0m, the depth of site preparation is greater than 30cm, and the specification of planting hole 60cmx60cmx80cm.