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

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**Amygdalus pedunculata -- Part 3: Technical regulations for
high-yield cultivation**

长柄扁桃 第3部分：丰产栽培技术规程
(English Translation)

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Table of Contents

Foreword	
1 Scope	
2 Normative references	
3 Garden selection and planning	
3.1 Climatic conditions	
3.2 Site conditions	
3.3 Garden planning	
4 Building a garden	
4.1 Thorough breed selection	
4.2 Land preparation and fertilization	
4.3 Planting Point Specifications	
4.4 Seedling specifications	
4.5 Planting time	
4.6 Planting density	
4.7 Variety configuration	
4.8 Planting	
4.9 Fixed	
5 High yield indicators	
6 Soil and water management	
6.1 Early work	
6.2 Weeding	
6.3 Fertilization	
6.4 Water management	
6.5 Plastic Trim	
6.6 Pest control	
7 Fruit harvesting, handling and storage	
7.1 Harvest timing	
7.2 Collection method	
7.3 Seed handling and storage	

Foreword

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

This standard is proposed by the Economic Forest Research and Development Center of the Chinese Academy of Forestry.

This standard is under the jurisdiction of the National Economic Forest Products Standardization Technical Committee (SAC/TC557).

This standard was drafted. Economic Forest Research and Development Center, Chinese Academy of Forestry, Inner Mongolia Agricultural University, Inner Mongolia Education Center, Tongliao Forestry Bureau.

1 Scope

This standard specifies high-yield cultivation such as the selection and planning of long-handled almond orchards, the establishment of gardens, the management of soil, fertilizer, and water, and the harvesting, processing, and storage of fruits Management technology.

This standard applies to the Huanghuai Basin in Henan, Anhui, Shandong and the "Three Norths" Inner Mongolia, Shaanxi, Gansu, Ningxia, Shanxi, Hebei, Beijing, High-yield cultivation and management of almond tree in Tianjin, Liaoning and other regions.

2 Normative references

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

GB/T 15776 Afforestation Technical Regulations

3.1 Climatic conditions

The average annual temperature is $\geq 4\text{ }^{\circ}\text{C}$, the average annual sunshine is ≥ 2876 hours, the frost-free period is ≥ 150 days, and the annual precipitation is ≥ 200 mm.

3.2 Site conditions

The thickness of the soil layer is ≥ 0.6 m, the pH value is 6.5 to 8.5, the soil is loose, the drainage is good, the slope is $\leq 25^{\circ}$, and the sun slope.

3.3 Garden planning

Plan and design the garden before planting. The design is based on the construction land, and the roads, shelter forest systems, houses, water circuits, and drying fields are designed.

And so on for comprehensive planning.

4.1 Thorough breed selection

The selected varieties should be selected (recognized) at the provincial level and above (see Appendix A of the "Technical Regulations for Construction of Long-handled Almond Pear Harvesting Plants").

4.2 Land preparation and fertilization

Site preparation shall be carried out in accordance with 8.3 of GB/T 15776. Combined with site preparation, the base fertilizer shall be $3000 \text{ kg} \cdot 667\text{m}^{-2} \sim 5000 \text{ kg} \cdot 667\text{m}^{-2}$.

The formula is executed according to 10.5.

4.3 Planting Point Specifications

The sandy land should be $40 \text{ cm} \times 40 \text{ cm} \times 50 \text{ cm}$, and other soil types should be $40 \text{ cm} \times 40 \text{ cm} \times 40 \text{ cm}$.

4.4 Seedling specifications

Reach seedling standards above Grade II. For seedling standards, see Table 4 in the "Technical Regulations for Breeding Seedlings of Long-handled Almond Complex, Part 2."

4.5 Planting time

Refer to "Technical Regulations for the Construction of Ear Harvesting Plants in Part 1 of Almond Complex" for implementation in 4.2.3.

4.6 Planting density

$2 \text{ m} \times 4 \text{ m}$ should be used for artificial cultivation, and $2 \text{ m} \times 5 \text{ m} \sim 6 \text{ m}$ should be used for mechanized cultivation.

4.7 Variety configuration

The pollination tree was selected as the long-stemmed almond variety or variety with the same flowering period and strong pollination affinity as the main planting variety. Main planted species and pollinated species According to the ratio of 8 to 10. 1, it is appropriate

to plant 2 to 3 varieties in the same garden. 'Zhongbian 2' and 'Mengbian 1' are suitable as 'Zhongbian 1' and 'Zhongbian No. 3' pollination tree, 'Zhongbian No. 4' and 'Zhongbian No. 2' are suitable as 'Zhongbian No. 5', 'Zhongbian No. 6', and 'Zhongbian No. 7' no.'s pollination tree.

4.8 Planting

Long-handled almond trees should be planted with mud dipped in roots. The mud consists of 0.1% potassium permanganate, 0.6% potassium dihydrogen phosphate, 0.3% zinc fertilizer and final concentration.

Rooting powder with a concentration of $50 \text{ mg} \cdot \text{kg}^{-1} \sim 60 \text{ mg} \cdot \text{kg}^{-1}$, and stir well with clay and appropriate amount of water. Planting method in accordance with GB/T 15776

10.4.2 Implementation.

4.9 Fixed

After planting, it can be set to dry, the fixed height is 40 cm ~ 60 cm.

5 High yield indicators

In terms of growth, good ventilation and light transmission, strong growth of the tree body, strong green leaf color, no harm from pests and diseases or minor harm; in terms of economic yield, High yield, stable yield, uniform kernel size, kernel yield per unit area, etc. reached the high yield index in Table 1.

Table 1 High-yield indicators of almond tree

Forest age (year)	growth index	Economic Indicators	Kernel production per unit area/(kg · 667m ²)
4 to 5	Tree height/m ≥ 1.8 Ground diameter/m ≥ 4 Crown width/m $\geq 1.8 \times 1.8$ New shoot growth/cm ≥ 40	Oil content (%) ≥ 45 250 ~ 300	≥ 50
6 or more	Tree height/m ≥ 2.0 Ground diameter/m ≥ 5 Crown width/m $\geq 2.0 \times 2.0$ New shoot growth/cm ≥ 50	400 ~ 450	Note. The economic yield is calculated based on the row spacing of 2 m x 4 m and planting of 1250 long-stemmed almond trees per hm ² .

6.1 Early work

Alfalfa, white elm, wormwood, salvia, habitat, etc. can be intercropped at the young tree stage of the long-almond apricot yield garden.

6.2 Weeding

Weed in time according to growth conditions. Mechanical weeding should be used to control weeds, and herbicides should not be used for weed control.