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

LY/T 3004.4-2018

**Walnut - Part 4: Standard for implantation and management
technical of walnut**

核桃标准综合体 第4部分：核桃优质丰产栽培技术规程

(English Translation)

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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 fourth 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, Shaanxi Provincial Forestry Technology Extension Station, Hebei Agricultural University, North Beijing Forestry and Fruit Science Research Institute, Shandong Forestry Science Research Institute, Shaanxi Datong

Ecological Industry Development Co., Ltd., Hubei Linyi Agricultural Science and Technology Limited.

1 Scope

This part of LY/T 3004 stipulates the selection and planning of walnut cultivation sites, land preparation, planting, post-plant tree management, early intercropping, plastic surgery High-yield and high-yield cultivation techniques for walnuts, such as shearing, sapling and mature trees, soil fertility management, harvesting, pest control and natural disaster prevention and control.

This section applies to the production and cultivation of walnuts.

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 3095 Ambient Air Quality Standard GB 5084 Farmland Irrigation Water Quality Standard GB 15618 Soil Environmental Quality Agricultural Land Risk Management Standards (Trial) LY/T 3004.6 Walnuts Part 6. Walnut harvesting and post-harvest treatment

3.1.1 Climatic conditions

The annual average temperature is 10°C~16°C, the absolute minimum temperature is $\geq -20^{\circ}\text{C}$, the absolute maximum temperature is $\leq 40^{\circ}\text{C}$, and the frost-free period is 160d~240d.

The annual sunshine hours are $\geq 2000\text{h}$, the annual rainfall is 400mm~1000mm, and the effective accumulated temperature above 10°C is $\geq 3000^{\circ}\text{C}$. Cultivated air the conditions are implemented with reference to GB 3095.

3.1.2 Site conditions

Choose sand leeward sunny zone with latitude $30^{\circ}\sim 40^{\circ}$, slope $\leq 20^{\circ}$, soil thickness $\geq 1.0\text{m}$, sandy loam and light loam with good permeability and loam, pH 6.5~8.0. The soil requirements of the cultivation ground are implemented in accordance with GB 15618, and the irrigation water requirements are implemented in accordance with GB 5084.

3.2 Cultivated land planning

Before the establishment of the park, the planning and design of the construction of the garden houses, the construction of roads, irrigation and drainage facilities, and shelterbelt

layout shall be carried out, and the plan shall be drawn.

4.1 Land preparation method

The following methods can be used for land preparation.

a) Groove land preparation. good site conditions, suitable for flat land or terraces for mechanical land preparation, planting trench width x depth = (0.8m~1.0m) x Planting ditch (0.8m~1.0m), the ditch length depends on the garden conditions.