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

GB/T 29404-2025

Replacing GB/T 29404-2012

Guideline for determining irrigation water quotas

灌溉用水定额编制导则

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Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part

1.Structure and Drafting Rules of Standardization Documents". Drafting. This document replaces GB/T 29404-2012 "Guidelines for the Compilation of Irrigation Water Quotas". Compared with GB/T 29404-2012, except for structural adjustments... Aside from integration and editorial changes, the main technical changes are as follows:

---The general rules have been amended (see Chapter 4, Chapter 3 of the.2012 edition);

---The requirements for organization and approval in the compilation process have been removed (see sections

4.3 of the.2012 version), and the compilation workflow has been changed. It was later incorporated into the "General Rules" (see 4.2,.2012 edition 4.2);

---Added methods for compiling national irrigation water quotas (see 5.1.2, 5.2.1, 6.1.3, 6.2.3, 6.3.2, and 7.1.2);

---The format for irrigation water quotas has been changed (see 7.1.1, 8.3 of the.2012 edition);

---The calculation process for irrigation water quotas has been revised (see 6.2.2, 7.1.1, and

8.1 in the.2012 edition), and irrigation water quotas have been added. The calculation methods for the general value and advanced value are shown in 7.1.

---Added explanation of the irrigation water quota format (see Chapter 9). Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents. This document was proposed and is under the jurisdiction of the Ministry of Water Resources of the People's Republic of China. This document was drafted by: China Irrigation and Drainage Development Center, China Association for Agricultural Water Conservation and Rural Water Supply Technology, and China Water Resources and Hydropower Research Institute. Research Institute, Institute of Farmland Irrigation, Chinese Academy of Agricultural Sciences, China Agricultural University, Yangtze River Scientific Research Institute of Yangtze River Water Resources Commission, Zhejiang Provincial Institute of Water Resources and Estuary Research Institute (Zhejiang Provincial Marine Planning and Design Institute), Hebei Provincial Water Resources Research and Water Conservancy Technology Experiment and Promotion Center, Heilongjiang Provincial Water Conservancy Science Research Institute. The main drafters of this document are: Gu Tao, Wang Huan, Han Zhenzhong, Wu Yuqin, Xu Lei, Wu Wenyong, Li Jinshan, Li Yunkai, Li Yalong, and Zheng Shizong. Li Tienan, Nie Jianzhong, Xiong Yujiang, Lei Bo, Shen Yingying. The release history of this document and the document it replaces is as follows:

---First published in 2012 as GB/T 29404-2012;

---This is the first revision. Guidelines for the Compilation of Irrigation Water Quotas

1 Scope

GB/T 29404-2025 is the Chinese national standard covering setting how much water an irrigated hectare of a given crop may use in a given region - the crop water requirement, the effective rainfall, the efficiency of the irrigation system and the quota that follows, which is the instrument by which northern China rations agricultural water. It replaces GB/T 29404-2012, under the Ministry of Water Resources. It was issued on 31 December 2025 and has been in force since 1 July 2026, replacing GB/T 29404-2012. The document is under the responsibility of the Ministry of Water Resources. This page is published from the official record of the 2025 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document specifies the main crops and regions for irrigation water quotas, data collection, analysis and verification, results reporting, format, and describes the irrigation... Methods for determining irrigation water quotas. This document is applicable to guiding the preparation of irrigation water quotas.

2 Normative references

The contents of the following documents, through normative references within the text,

constitute essential provisions of this document. Dated citations are not included. For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies. This document.

GB/T 50363 Technical Standard for Water-Saving Irrigation Engineering SL/T 699 Technical Guidelines for Determining the Effective Utilization Coefficient of Irrigation Water

3 Terms and Definitions

The following terms and definitions apply to this document.

3.1 Irrigation water quota The unit area of a certain crop, determined under specified location and hydrological year type, during the preparation period and the entire growth period (each year for perennial crops), is... Irrigation water consumption.

3.2 Under a specified hydrological year type, for a certain crop during the preparation period and throughout its entire growth period (perennial crops are counted annually), irrigation into the field can benefit the crop. The amount of water per unit area that is used or beneficial to crop growth, excluding losses from canal transport and field irrigation.

3.3 Irrigation water utilization coefficient The ratio of net irrigation water volume to gross irrigation water volume in an irrigation district or region during a certain period, or the product of the canal system water utilization coefficient and the field water utilization coefficient.

3.4 The ratio of the total outflow of water from the final fixed channels (pipes) of an irrigation district to the total inflow of water into the head canal during a certain period.

3.5 The ratio of net irrigation water volume of a field to outflow from the final fixed canal (pipeline) during a certain period.

3.6 The weighted average of a certain crop in a region under specified hydrological year conditions, current irrigation district types, and different irrigation methods, based on irrigated area. Irrigation water quota.