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LY

INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

LY/T 2899-2017

Specifications for assessment of wetland ecosystem services

湿地生态系统服务评估规范

(English Translation)

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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 LY/T 2899-2017 "Wetland Ecosystem Service Assessment Specifications": Compared with LY/T 2899-2017, except for the structure in addition to adjustments and editorial changes, the main technical changes are as follows:

a) Added "data sources" and specified data requirements for wetland ecosystem service assessment (see Chapter 4);

b) Added "Evaluation Index System Composition" (see 6.1, Figure 2);

c) Added "Application Scope of Assessment Indicators" to evaluate the wetland types applicable to each assessment indicator when assessing wetland ecosystem services:

Adjustment, change the category of "offshore and coastal wetlands" to "coastal wetlands" (see 6.2, Table 1);

d) Added a chapter "Step-by-Step Calculation Method" to further clarify the step-by-step calculation units and calculation methods at all levels for wetland ecosystem service assessment:

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Methods and specific steps (see Chapter 7, Figure 3);

e) Added normative reference documents such as GB/T 27648 and LY/T 2090 (see Chapter 2);

f) The expression of the scope of application in "Scope" has been changed, and the assessment activities carried out "for the purpose of engaging in wetland protection, utilization and related management activities" have been changed:

It can be automatically included in the scope of execution with reference to this document (see Chapter 1, Chapter 1 of the:2017 edition);

g) The existing general terms and definitions in "Terms and Definitions" are deleted, and the retained terms and definitions are appropriately modified (see 3.1~ 3:7,:2017 edition 3:1~3:23);

h) Changed the description of "Assessment Process" and "Assessment Flow Chart" (see Chapter 5, Figure 1, Chapter 4, Figure 1 of the:2017 version);

i) Changed the classification of secondary indicators in the "Evaluation Indicator System" to include support services, adjustment services, supply services and cultural services:

The first-level indicators and 19 second-level indicators were changed to 4 first-level indicators and 13 second-level indicators on the basis of increases and decreases (see 6.1, Figure 2;2017 version of 5:1);

j) The evaluation method, calculation formula, parameters, etc: of the indicators in the "Evaluation Method" have been changed (see Table 2, 5:2 and Table 2 of the:2017 version);

k) Changed the wetland ecosystem service assessment results to the specific "total value amount" and "unit wetland area value" (see appendix A, Chapter 6 of the:2017 edition);

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1 Scope

This document stipulates the data sources, assessment process, assessment indicator system and assessment methods for wetland ecosystem service assessment:

This document is applicable to wetland ecosystem service value assessment work engaged in wetland protection, utilization and related management activities:

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text: Among them, the dated quotations for undated referenced documents, only the version corresponding to that date applies to this

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document; for undated referenced documents, the latest version (including all amendments) applies to this document:

GB/T 24708 Wetland classification GB/T 27648 Important Wetland Monitoring Index System HJ623 Regional Biodiversity Evaluation Standards LY/T 2090 Wetland ecosystem positioning and observation index system

3 Terms and definitions

The following terms and definitions apply to this document:

wetland ecosystem Ecosystems with long-term or periodic accumulation of water or excessive humidity, and the growth of aquatic, marshy or hygrophytic vegetation:

Various direct or indirect benefits that humans obtain from the natural environmental conditions and effects formed and maintained by wetland ecosystems and ecological processes:

Benefits:

Note: Mainly includes support services, adjustment services, supply services and cultural services:

Supporting servicessupportingservices Wetland ecosystems provide basic services necessary to support other services:

Note: Including maintaining biodiversity and net primary productivity:

regulating services regulating services Various benefits that humans obtain from the regulating effect of wetland ecosystems on climate, hydrology and other processes:

Note: Including regulating floods, replenishing groundwater, protecting soil and creating land, dissipating waves and protecting banks, purifying water quality, fixing carbon and releasing oxygen, regulating climate, etc:

provisioningservices Products and services humans obtain directly from wetland ecosystems:

Note: Including food production, raw material production, water supply, etc:

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