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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

HJ/T 192-2006

Replacing HJ/T 192-2006

Technical Criterion for Ecosystem Status Evaluation

生态环境状况评价技术规范

(English Translation)

Issued on: March 13, 2015 **Implemented on: March 13, 2015**

Issued by: Ministry of Ecology and Environment

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Evaluation Index System and Calculation Method of Ecological Environment Condition

Foreword

To implement the "People's Republic of China Environmental Protection Law" to strengthen the ecological and environmental protection, evaluation of China's ecological environment and Change the trend, the development of this standard.

This standard specifies the ecological environment assessment index system and the calculation method of each index.

This standard applies to the county, provincial and ecological areas of the ecological environment and changes in the trend of assessment, ecological areas, including ecological Energy district, city/city group and nature reserve.

This standard was first published in 2006, this time for the first revision.

The main contents of this revision.

- Evaluation of ecological environment and the sub-index of the evaluation of indicators and calculation methods;

- New eco-functional areas, urban/urban agglomerations and nature reserves and other ecological areas of eco-environmental assessment indicators and Calculation method.

Since the implementation of this standard, the "ecological environment assessment of technical specifications (Trial)" (HJ/T 192-2006) abolished.

Appendix A and Appendix B of this standard are informative.

This standard is revised by the Ministry of Environmental Protection Science and Technology Standards Division.

The main drafting of this standard. China Environmental Monitoring Station, Ministry of Environmental Protection Nanjing Environmental Science Research Institute, Shanghai Ring Environmental Monitoring Center, Jiangsu Province Environmental Monitoring Center,

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Qinghai Province Ecological Environment Remote Sensing Monitoring Center, Xinjiang Uygur Autonomous Region Environment Monitoring station, Shenzhen Environmental Monitoring Center Station, Zhejiang Province Environmental Monitoring Center, Liaoning Province Environmental Monitoring Experimental Center, Environment Ministry of Protection of Satellite Environment Application Center.

This standard is approved by the Ministry of Environmental Protection on March 13, 2015.

This standard is implemented on March 13, 2015.

This standard is explained by the Ministry of Environmental Protection.

Technical specification for evaluation of ecological environment

1 Scope of application

This standard specifies the ecological environment assessment index system and the calculation method of each index.

This standard is applicable to the evaluation of ecological environment and changing trend of county, provincial and ecological areas in China. Among them, the ecological ring the state assessment method is applicable to the assessment of the ecological environment and the trend of the administrative region above the county level (including), the ecological function area the ecological function evaluation method is applicable to the ecological function status and the change trend of each type of ecological function area, and the urban ecological environment the quality evaluation method is applicable to the evaluation of the ecological environment quality and the trend of the urban area and the urban agglomeration above the prefecture level (inclusive) the evaluation method of ecological protection status of nature reserve is applicable to the evaluation of ecological environment protection and trend in nature reserve.

2 Normative reference documents

The contents of this standard refer to the following documents or their terms. For those who do not have a date reference, the latest version applies in this standard.

GB 3095 Ambient Air Quality Standard GB 3096 sound environmental quality standards GB 3838 Surface Water Environmental Quality Standard Soil Environmental Quality Standard GB/T 14848 Groundwater Quality Standard Technical code for monitoring of desertified land GB/T 24255 HJ 623 Regional Biodiversity Assessment Criteria Classification of Soil Erosion Classification

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3 Terms and definitions

Ecological environment condition index Evaluation of regional eco-environmental quality status, that is, EI, the value range of 0 to 100.

Biological abundance index Evaluate the extent of biological abundance in the area, using biocene quality and biodiversity.

Vegetation coverage index the extent of vegetation coverage in the area was evaluated by using the normalized vegetation index (NDVI) per unit area in the evaluation area.

Water network denseness index Evaluation of the degree of water in the area, the use of the evaluation area of the total area of the total length of the river, water area and water resources Said. When the water network density index is greater than 100, then take 100.

Land stress index

The degree of land quality in the evaluation area is affected, and the soil erosion, land desertification, Land development and other types of coercion. When the land stress index is greater than 100, then take 100.

Pollution load index the environmental pollution pressure in the assessment area is expressed by the pollution load accepted by the unit area of the evaluation area. when when the pollution load index is less than 0, then 0 is taken.

Environmental restriction index is a binding indicator, refers to the region due to the serious impact of human settlements production and safety of ecological damage and environmental pollution Matters on the ecological environment to limit.

Ecological function area ecological function status index ecological index area Evaluation of wind and sand, soil and water conservation, water conservation, biodiversity maintenance to provide eco-products as the main function the ecological environment and ecological function of the area, ie, FEI, are in the range of 0 to 100.

Environmental quality index Evaluate the environmental quality of the region, according to the evaluation of the main object characteristics of the selection of evaluation indicators. Ecological environment of ecological function area the index is mainly from the surface water quality, air quality and centralized drinking water source and other aspects of quality; urban environmental quality from the atmospheric environment quality, water quality, sound and environmental quality and so on.

3.10

Urban eco - environmental situation index Evaluation of urban or urban agglomeration of the ecological environment quality, that is, CEI, the value range of 0 to 100.

3.11

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Index of ecological construction Evaluation of the city's ecological construction and environmental management level, mainly from the proportion of ecological land, green coverage, environmental investment accounted for GDP ratio and so on.

3.12

Nature protected area Ecological environment protection index index Evaluation of ecological protection of natural reserves, that is, NEI, the value range of 0 to 100.

3.13

Area suitability index Evaluation of the core area of the nature reserve, the buffer zone and the experimental area and other functional division of the reasonable degree, the use of core area Percentage representation.

3.14

Alien species invasion index Assess the extent to which the nature reserves are interfered with by invasive alien species, using the number of invasive species.

3.15

Habitat quality index the suitability of the quality of the habitat of the main protected nature of the nature reserve is evaluated, and the habitat quality of the main protected object is expressed.

3.16

Development disturbance index Evaluation of the extent to which human production life is disturbed to nature reserves, using land use types related to development activities.

3.17

Normalization coefficient the coefficients of the data are dimensionless, taking 100 times the reciprocal of the maximum of a series of data, ie, Normalized coefficient = 100/A maximum.

Where. A max - the maximum before an index is normalized.

4 Eco-environmental status assessment work flow chart

Evaluation of ecological status of special ecological area Evaluation of ecological status of special ecological area Ecological function urban ecological environment nature reserve Comprehensive Analysis of Ecological Environment Ecological management demand analysis Regional ecology Characteristics Identify ecological assessment objectives County/province/country Ecological ring Situation Evaluation means Standard system with evaluation method Ecological function area State function status Urban ecology Environmental Quality Nature Reserve Protection status Natural security Protected area protection Protect the situation Evaluation means Standard system with evaluation method

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