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Ecosystem health assessment of urban rivers and lakes for six lakes in Beijing

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Urban rivers and lakes include canals, channels (include the underdrain), rivers naturally forming or artificially excavated running through the urban area, as well as lakes and reservoirs within urban area. Urban rivers and lakes in healthy state provide environmental services, and have the aesthetic and humanistic value. The assessment of ecosystem health of urban rivers and lakes is the scientific basis for their management and ecological restoration. Urban rivers and lakes ecosystems are complex ecosystems that interact with human ecosystem. Therefore, the concept of ecosystem health of urban rivers and lakes has two properties. The first is the natural property, the urban rivers and lakes ecosystems are intact, steady, natural and sustainable, and have the ability to resist the external unfavorable factors. The second is the social property, the urban rivers and lakes ecosystems provide ecosystem services and meet the people's needs for recreation. The indicator system for assessment of urban rivers and lakes ecosystems health is based on the concept of ecosystem health of urban rivers and lakes. The indicator system contains three levels, the objectives, the elements and the indicators. The system includes six elements and sixteen indicators. These elements are: hydrological characteristics, water quality, structure and function of aquatic ecosystems, structure of waterfront areas, scenic effects and stress factors. These elements cover four aspects such as hydrology, ecology, environment and society. Ecosystem health is relative to the assessment criteria, therefore, the health of urban rivers and lakes ecosystems can be dealt with as a fuzzy problem. In this paper, an assessment model was established using the fuzzy set theory. The analytic hierarchy process was used to calculate weights of indicators. The six lakes of Beijing include Xihai, Houhai, Qianhai, Beihai, Zhonghai and Nanhai. Employing the indicator system and model described above, the health of the six lakes were compared. It was found that: Zhonghai and Nanhai were in the state of transition from unhealthy to critical state, other lakes were all in unhealthy state. Water quality, structure and function of aquatic ecosystems, structure of waterfront areas were constraints of health. Nanhai was ranked as poor, the others were all ranked as very poor. However, the ecological environment of Zhonghai and Nanhai were better than the others, the sum of the degree of membership to the healthy state and critical state were all close to 0.6, the restoration of these lakes was moderate; the sum of degree of membership to the healthy state and critical state of other lakes was under 0.3, it was difficult to restore these lakes. Suggestions on scientific management and ecological restoration of six lakes were proposed: ① To control non-point source pollution and to improve water quality of six lakes and the water entering into these lakes; ② To improve the hydrological conditions of six lakes; ③ To rehabilitate aquatic ecosystem and the waterfront areas.

【Key Words】 : **urban rivers and lakes ecosystem health assessment indicator system Beijing lakes**

【Fund】 : 国家高技术研究发展计划(863)资助项目(2003AA601010); 国家自然科学基金重点资助项目(50239020)~

【CateGory Index】 : X826;


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