

## **DISCUSSION ON MAIN GEO-ECOLOGICAL PROBLEMS IN THE YELLOW RIVER AND THE YANGTZE RIVER**

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DISCUSSION ON MAIN GEO-ECOLOGICAL PROBLEMS IN THE YELLOW RIVER AND YANGTZE RIVER LU YAORU, Institute of Hydrogeology and Engineering Geology, Chinese Academy of Geological Sciences, Zhengding, Hebei, China This paper is discussing to focus on the main geo-ecological problems related to the Yellow River and the Yangtze River. The water as very important resources is lacking in Yellow River. Based on the evolution of geo-ecological environment since 3 Ma. B.P., it is to discuss the running out of flow in downstream of Yellow River in the paper by both factors, which are: a great deal of silt deposition to increase its river beds; over pumping ground water to decrease its level in larger area. To solve the very important problem is needed to take different measures for lifting the geo-ecological quality in whole basin of the Yellow River. The geo-ecological environments in karstified mountain regions of upper stream of the Yangtze River with the dangerous trend about rocky desertification will influence the Three Gorges Project. According to the local conditions, the ways to take precautions for geological hazards and seasonable exploitations of main four resources are discussed. The purposes for lifting the geo-ecological quality of upper stream of Yangtze River is to ensure the benefits of Three gorges project and to get sustainable development in 21st Century. In the whole basin of Yangtze River, the geo-ecological environments are also deteriorated by artificial actions, and the flood in 1998 with more dangerous trend had the closed relationship with the geo-ecological quality to be deteriorated. The green engineering, civil engineering and environmental engineering must be together taken for lifting the qualities and the sustainable developments in the Yellow River and the Yangtze River. Yaoru L