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Impact of water conservancy projection on oncomelania habitats in Poyang Lake

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Abstract: The Poyang Lake region is one of the areas with most widely distributed Oncomelania and most serious schistosomiasis epidemic situation in China. A set of flow condition index for characterizing Oncomelania bred environment considering eco-hydraulics characteristics of Oncomelania are provided. This paper analyzes the change characteristics offlow regime represented by the Station of Xingzi, estimates the area of Oncomelania habitats in lake region, and studies the influences of flow regime change on Oncomelania habitats in before and after water conservancy project in Poyang Lake. The desired effect of schistosomiasis control of water resource dispatching was analyzed combined with real cases in Poyang Lake region. The analytical results show that it is possible to control the range of Oncomelania habitats significantly after several years of running the water conservancy project of Poyang Lake.

Key words: oncomelania; habitat; flow regime; water conservancy project; Poyang Lake