

Mongolian Recreational Fishing Briefs

Taimen ecology, fishery management, and conservation.

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(# of 20)

TAIMEN CONSERVATION FUND – SCIENTIFIC RESEARCH TEAM

Key Points:

Taimen spawning occurs between late April and early May when water temperatures reach 6 °c

Average incubation temperatures of 8 and 10 °c for the month of May in the Uur River.

Only a small percentage of taimen have been observed moving during spawning periods.

Related Topics

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Fish Ecology: *Hucho taimen*



Reproduction

Introduction:

Eg-Uur Watershed taimen movement study

The subject of this study was to describe the taimen's spawning grounds and their hydrological characteristics and redd structure. We made an observation in spawning ground of the *Hucho taimen* in the Uur Rivers and fourteen redds were found and measured in 2005.

Taimen is lithophilous fish and required very clear cold water. Spawning activity mainly at noon, evening, early morning at water temperature 7.8-10 °C.

Female built a nest with max 2.25 cm in length, 190cm in width and lays eggs in to the gravel bottom at the depth 30-40 cm. Spawning ground of taimen depend of bottom structure and location.

Taimen Conservation Fund

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Results

The result of our study was that spawning area of taimen mostly concentrated before riffle with gravel bottom. Female taimen prepare nest 163 cm in average length (120-255 cm) and 121.3 cm in average width (85-165 cm). The bottom structure of redd consist mainly by gravel, sand and rock. The size of gravel fluctuated form 5 to 15 cm in diameter, The big cobble with 20-25 cm in diameter mainly at the around of the nest. Spawning going at noon, before sun set and early morning when water temperature 7-10 oC. During the taimen spawning in Uur river a water temperature range and DO concentration data shown that they are suitable for the eggs development (Figure-1). From beginning of May to end of May. At this period mainly developed early stage embryos.

The depth of redd may differs from structure of bottom and water current. Fugure-2. Water velocity data shown that they are can be different in each measured depth. (Figure-3).

At the depth 20 cm above center of redd average velocity was reach 3.49 m/s, at 10 cm 3.1 m/s in average. The female will cover eggs by gravel at the 30-40 cm in depth. We were fond in one nest 3 redd. In first redd with 30-40 cm depth were counted 282



Implications for Management & Future Research

- In the Uur river Taimen spawning ground can be changed by heavy water flood.
- From early June and July water temperature of Uur river becoming to increase and concentration DO coming down, they are should be influence on feeding activity and habitat of taimen fry and fingerling.

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