Capshell Study Glacier National Park Brook Trout Collection August 21-22, 2002

Metadata

Collectors: Leo Marnell, Bill Michels (Glacier National Park)

Set date/time: Nets fished overnight 8/21-6:00 PM to 8/22-7:30AM

Equipment: (1) 50-ft nylon gill net, 2-panels 3/8-in $\pm \frac{1}{2}$ -in

(1) 75-ft nylon gill net, 3-panels 3/8+1/2+3/4-in

Procedure: Gill nets were set at two locations along eastern shoreline approximately 250-ft and 325-ft north of outlet marsh located at SE end of lake. Nets were set from a float tube. Larger mesh panels placed at offshore end in water estimated to be less than 15-ft deep; smaller mesh panels set approximately 30-ft from shore and secured to trees on shoreline via tether cords. Nets were set near the bottom at offshore end via anchors and angled toward the surface at inshore ends.

<u>Field Processing</u>: Captured brook trout were placed in a chest filled with crushed ice on-site at the lake. The sample was transported to West Glacier where each fish was measured (total length/mm) and weighed (gm). Fifty-two whole specimens and three without heads were transferred to Zip-Lock freezer bags and placed in a freezer.

Observations: Weather was mild and cool with light rain when nets were set.

Overcast conditions and a moderate breeze prevailed when the nets were retrieved in the morning. Numerous small brook trout were observed at the lake surface throughout most parts of the lake in the evening and the next morning. Several of the captured brook trout were approaching spawning condition as evidenced by bright coloration and pronounced white fin margins. No evidence of external parasites was found.

<u>Data Analyses</u>: The fish will be thawed and the stomach contents will be examined for evidence of brook trout predation on capshells in Lost Lake. This work will be done during the winter of 2002-2003. Presence/absence and number of capshells per stomach will be tabulated according to fish lengths. Condition factor will be calculated for the brook trout based on the length/weight data.

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AUG 200

LOST LAKE

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LEWGTH TOTAL WEIGHT

11 198 mm 59 GRAMS

12 175 mm 48 "

2 50	1 48 4	45 44	42
^	185	173	198 mm 175 mm
4 2 6 0	6231	76	59 GRAMS 48 "

+3 headless