

Fraser River Hydro and Fisheries Research Project fonds

Revised by Erwin Wodarczak (1998)

Revised November, 2010

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Fonds Description

Fraser River Hydro and Fisheries Research Project fonds. – 1956-1961.

13 cm of textual records.

Administrative History

The Fraser River Hydro and Fisheries Research Project was established in 1956, financed in part by a grant from the B.C. Power Corporation. Designed to study the delicate inter-relationship of power developments on the river and marine life, the Project began with two general surveys of the so called "fish-power" problem. The initial surveys, which employed the services of numerous biologists and engineers, identified areas for future research. Gordon Shrum was appointed chairman of the Executive, Advisory and Technical Committees which supervised the operation and Peter Larkin headed the first general survey. The Project concluded in 1961.

Scope and Content

Fonds consists of correspondence, minutes of meetings and numerous reports generated between 1956 and 1961. Also included are several research papers relating to the effects of hydro-electric dams on fish populations. Many of these reports were produced by University of British Columbia faculty including Edgar C. Black and William S. Hoar.

Notes

Acquired in two accessions: from Dr. Gordon Shrum in 1961, and Dr. Peter Larkin in 1986.

The materials have been largely retained in the order in which they were received.

Title based on the contents of the fonds.

File and item list available.

Other records relating to fisheries research may be found in the **B.C. Fisheries Research Collection**, and the **Peter Larkin fonds**.

File List

1. Appendix B and Appendix C, pp. 30-33 [n.d.]
2. Letter from UBC Accountant H.M. Craven re. Fraser River Hydro and Fisheries Research project Financial Statement 30 June 1961
3. Summary Report from Edgar C. Black, Dept. of Physiology, UBC: "The Effects of Muscular Fatigue on Salmon and Trout" [n.d.]
4. Letter (photocopy) from Dal Grauer to N.A.M. MacKenzie 11 January 1960
5. Letter from Dr. W.S. Hoar, Prof. of Zoology and Fisheries, UBC, to Mr. John Gouge 19 March 1960.
6. Letter (with enclosure) from J.F. Muir, Head of Civil Engineering, to Mr. J.W. Gouge 8 March 1960
7. Two copies (one marked-up) of Fraser River Research Statement (B.C. Electric Company) from UBC [n.d.]
8. Statement of Fraser River Research (B.C. Electric Company) from UBC re. Account No. 65-2000 [n.d.]
9. Proposed Research Projects - Fraser River Hydro and Fisheries Research Project [n.d.]
10. Reprint from Nature, Vol. 184, pp. 106-07 - "Retinal Responses of Pink Salmon Associated with its Downstream Migration" 11 July 1959
11. Reprint from Canadian Journal of Zoology 37, 965 (1959) - M.A. Ali, "The Ocular Structure, Retinomotor and Photo-Behavioral Responses of Juvenile Pacific Salmon" 1959
12. Two marked-up copies of The Fraser River Hydro and Fisheries Research Project - Progress Report 1 June 1958
13. Report on Project 57-154C, from R.H. Wright to the Chairman, Fraser River Hydro and Fisheries Committee, UBC 31 October 1960

Folder 2

14. Summary Report from Edgar C. Black, Dept. of Physiology, UBC: "Further Studies on the Effects of Muscular Fatigue on Fish" 1 November 1958
15. Summary Report from Edgar C. Black, Dept. of Physiology, UBC: "Further Studies on the Effects of Muscular Fatigue on Fish" 1 November 1959
16. "A Report on the Fish-Handling Facilities in Connection with the Proposed Power Dams on the Fraser River, with Reference to Existing Facilities in the U.S.A." September 1956
17. Report of the Subcommittee on Action of the University Fraser River Hydro and Fisheries Committee [n.d.]
18. "Changes in pH, Carbonate and Lactate of the Blood of Yearling Kamloops Trout, *Salmo gairdneri*, During and Following Severe Muscular Activity", by Edgar C. Black, Wing-Gay Chiu, Francis D. Forbes and Arthur Hanslip 1959
19. "Fatigue and Mortality in Troll-Caught Pacific Salmon", by R.R. Parker, E.C. Black, and P.A. Larkin 1959
20. "Muscular Fatigue and Mortality in Troll-Caught Chinook Salmon", by Robert R. Parker and Edgar C. Black 1959
21. [duplicate of 18 - removed]

Folder 3

22. "Fish Protection and Power Development on the Fraser River" by E.S. Pretious, L.R. Kersey and G.P. Contractor February 1957
23. "Passage of Adult and Young Fish Over Proposed Low and High Head Dams Across the Fraser River" by J.F. Muir, Head of Civil Engineering, UBC 17 September 1956
24. Progress Report: "Further Experiments with an Electric Screen for Downstream-Migrant Salmon at Baker Dam" by F.J. Andrew, P.C. Johnson and L.R. Kersey - International Pacific Salmon Fisheries Association 1956

25. Bulletin VIII: "An Investigation of the Problem of Guiding Downstream-Migrant Salmon at Dams" by F.J. Andrew, L.R. Kersey and P.C. Johnson - International Pacific Salmon Fisheries Commission 1955
26. "Progress Report of the Investigations on Odour Orientation - Zoology Department, UBC - April 1958" - sent to Dean Shrum, Head of Physics, UBC, by W.S. Hoar April 1958

Folder 4

27. "Power Development and Fish Conservation on the Fraser River" - Technical Report, Biological by William S. Hoar 1956
28. "Power Development and Fish Conservation on the Fraser River" by P.A. Larkin 1956

Folder 5

29. "Salmon Research and Hydro Power Development" by J.R. Brett 1956
30. "Engineering Research on the Fish and Power Problem" by J.F. Muir and Eugen Ruus (original and offprint) [n.d.]
31. "Some Aspects of Carbohydrate Metabolism in Fish" by Edgar C. Black, Anne C. Robertson and Robert E. Parker 1961
32. "Alterations in Glycogen, Glucose, and Lactate in Rainbow and Kamloops Trout, *Salmo gairdneri*, Following Muscular Activity" by Edgar C. Black, Anne C. Robertson, Arthur R. Hanslip and Wing-Gay Chiu 1960
33. "The Effect of Temperature on the Juvenile Sockeye Salmon Retina" by M.A. Ali 1959
34. "Some Recent Developments in Fisheries Engineering Research" by E.S. Pretious and L.E. Kersey 1957
35. "The Energy Expenditure of Fraser River Sockeye Salmon During the Spawning Migration to Chilko and Stuart Lakes" by D.R. Idler and W.A. Clemens 1959

Folder 6

36. Minutes of the final meeting of the Fraser River Hydro and Fisheries Research Project Advisory and Technical Committee 31 July 1961

37. Final Report - Fraser River Hydro and Fisheries Research Project August 1961