

FISH RESOURCES OF THE YUKON RIVER BASIN

The Yukon River Basin study area includes the area of the Yukon River Basin within Canada, excluding the Porcupine and other smaller sub-basins of the northern Yukon Territory. This map series is produced as part of a review of existing fisheries information for the Yukon River Basin Study.

Information from a wide range of sources was compiled in this series of maps showing fish species distribution, abundance and habitat utilization.

The map series is divided into two sections:

- 1) freshwater fish species distribution, and
- 2) salmon distribution and migration routes.

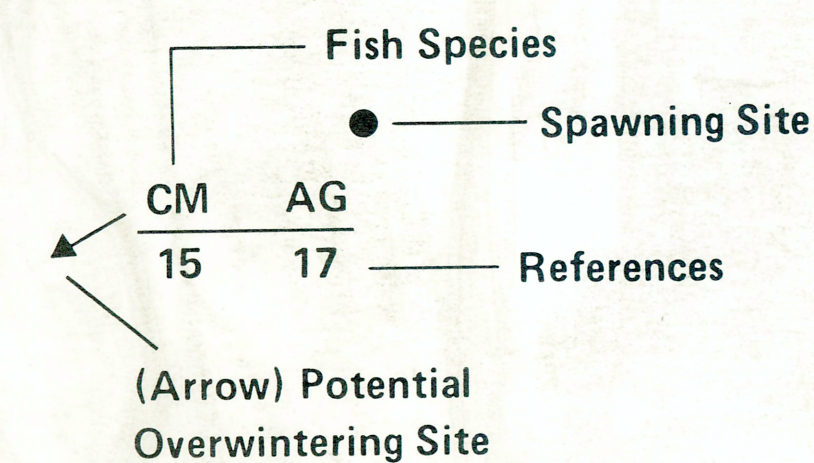
Map information is current as of February 1982. It is hoped that further information will update the map series on a regular basis.

FRESHWATER FISH RESOURCES

This map series depicts known information on the distribution of freshwater fish species within the Yukon River Basin. Some species such as the small forage species have been omitted from this series. In addition to showing species presence, symbols denote spawning locations and overwintering potential.

LEGEND

EXAMPLE



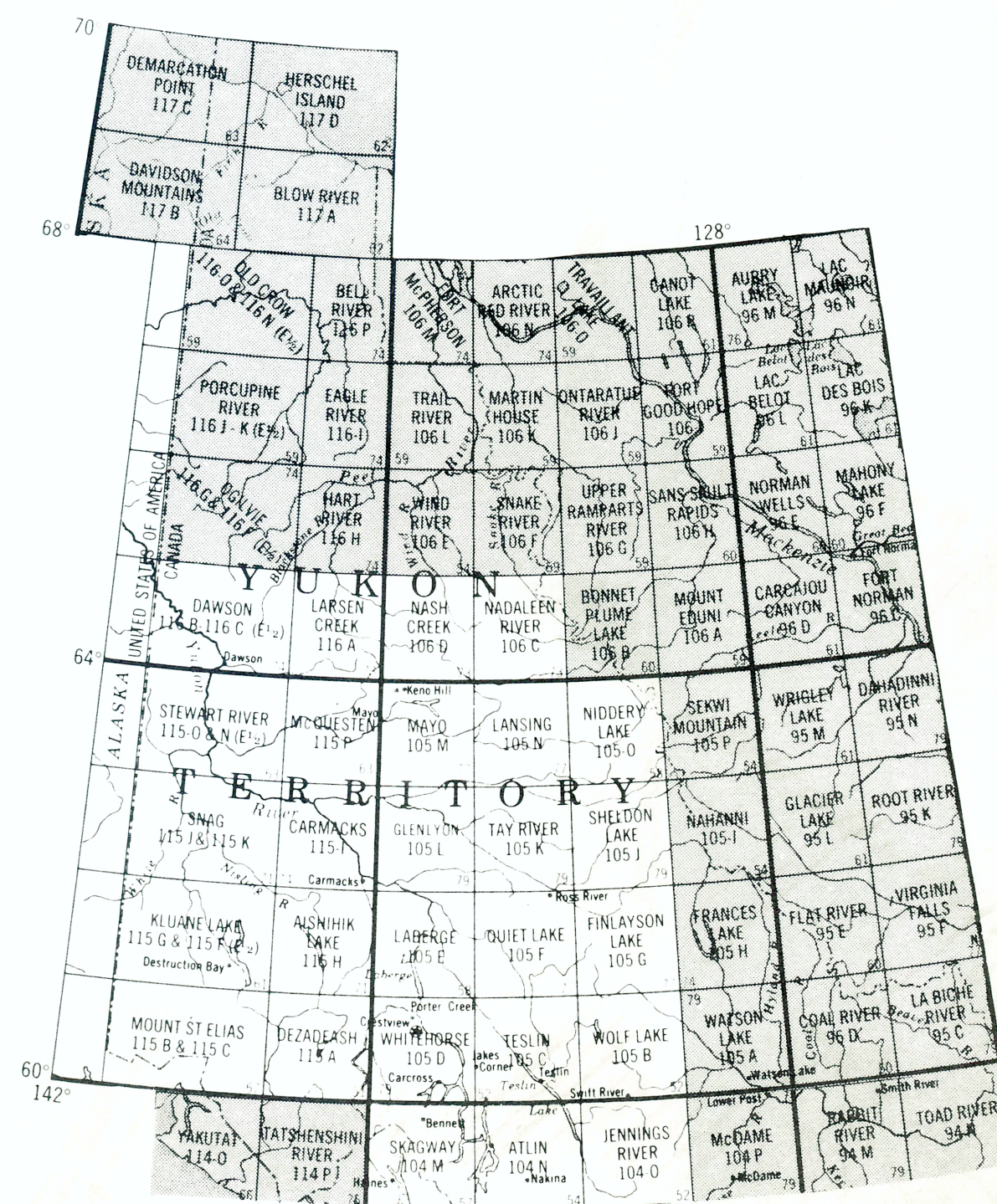
FISH SPECIES SYMBOLS

- CM Chum Salmon (*Oncorhynchus keta*)
- CH Chinook Salmon (*Oncorhynchus tshawytscha*)
- CO Coho Salmon (*Oncorhynchus kisutch*)
- SK Sockeye & Kokanee (*Oncorhynchus nerka*)
- RB Rainbow Trout (*Salmo gairdneri*)
- AC Arctic char (*Salvelinus alpinus*)
- LT Lake Trout (*Salvelinus namaycush*)
- DV Dolly Varden (*Salvelinus malma*)
- AG Arctic Grayling (*Thymallus arcticus*)
- IN Inconnu (*Stenodus leucichthys nelma*)
- LW Humpback (lake) Whitefish (*Coregonus clupeaformis*)
- BW Broad Whitefish (*Coregonus nasus*)
- BB Burbot (*Lota lota*)
- NP Northern Pike (*Esox lucius*)
- RW Round Whitefish (*Prosopium cylindraceum*)
- WF Whitefish (Unidentified)

SYMBOLS

- ▬ Ecological Land Inventory Boundary
- ← Potential Overwintering Site
- Spawning Site
- 15 References

NATIONAL TOPOGRAPHIC SERIES



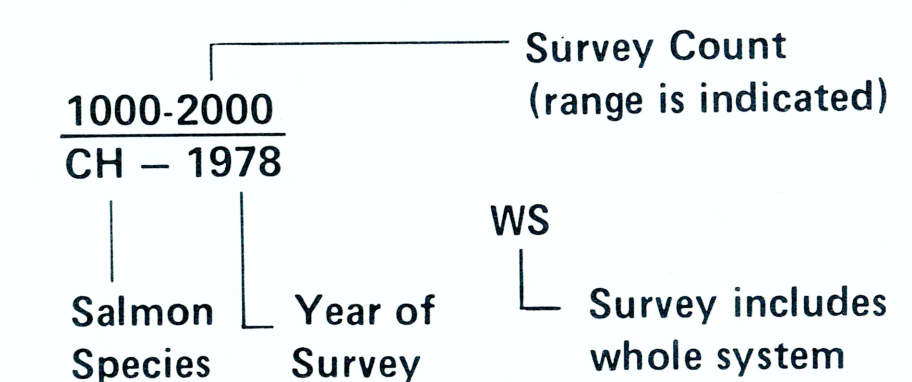
MAP STUDY AREA

SALMON RESOURCES

Fisheries information on the salmon resources of the Yukon River Basin is restricted to migration routes, spawning locations, and survey counts. Where information is available for more than one year, the peak survey count is indicated. Where possible, spawning sites are indicated in specific areas outlined by the respective information source. Survey counts may indicate escapement or spawning in a specific area or for the whole system.

LEGEND

EXAMPLE



SYMBOLS

- ▬ Salmon Migration Route
- CH Chinook Salmon
- CM Chum Salmon
- Chinook Spawning Site
- K Chum Spawning Site
- WS Whole System

REFERENCES — FRESHWATER FISH SPECIES

- 1 - Brown, R.F., M.S. Elson and L.W. Steigenberger. 1976. Catalogue of aquatic resources of the upper Yukon River drainage (Whitehorse Area). D.O.E. Fish & Mar. Serv. Tech. Rep. PAC/T-76-4.
- 2 - Canada, Department of the Environment. 1973a. Catalogue of fish and stream resources of the Teslin Watershed. Fish. & Mar. Serv. Tech. Rep. PAC/T-73-13.
- 3 - Canada, Department of the Environment. 1973b. Land Use Information Series maps. Prepared by Lands Directorate, Environmental Management Service, D.O.E.
- 4 - Canada, Department of the Environment. 1975. Additional aquatic resource studies in the Aishihik system relative to hydroelectric development. Fish. & Mar. Serv. Tech. Rep. PAC/T-75-4.
- 5 - Canada, Department of Fisheries & Oceans. 1979. Submissions to the Alaska Highway Gas Pipeline Hearings. Part of D.O.E./D.F.O. submissions to the Yukon Public Hearings Panel. Whitehorse, Yukon Territory, April, 1979.
- 6 - Canada, Department of Fisheries & Oceans. 1982a. Fish collection permit files. Fisheries & Oceans, Whitehorse, Yukon Territory.
- 7 - Canada, Department of Fisheries & Oceans. 1982b. Lake and stream files. Fisheries & Oceans, Whitehorse, Yukon Territory.
- 8 - Davies, D.J. and C.D. Shephard, 1981. Preliminary fisheries report for North Canal Road. Prepared for D.I.A.N.D., Whitehorse, Yukon Territory.
- 9 - Elson, M.S. 1974. Catalogue of fish and stream resources of east central Yukon Territory. D.O.E. Fish. & Mar. Serv. Tech. Rep. PAC/T-74-4.
- 10 - Environmental Management Associates. 1980. Fall fisheries investigations of Kluane Lake and north-shore creeks. Prepared for Foothills PipeLines (South Yukon) Ltd., Calgary, Alberta.
- 11 - Foothills PipeLines (Yukon) Ltd. 1978. Fisheries investigations along the Klondike Highway section of the prospective Dempster Lateral Pipeline Route - Yukon Territory - Summer and Fall 1977. Prepared by Beak Consultants Ltd., Calgary, Alberta.
- 12 - Foothills PipeLines (Yukon) Ltd. 1978b. Fishery investigations along the proposed Dempster Lateral Pipeline Route. 1978. Vol. I-II. Prepared by Beak Consultants Ltd., Calgary, Alberta.
- 13 - Foothills PipeLines (Yukon) Ltd. 1978c. A summary of fishery investigations in waterbodies within the influence of the proposed Alaska Highway Pipeline in Yukon Territory. 1976-77. Prepared by Beak Consultants Ltd., Calgary, Alberta.

- 14 - Foothills PipeLines (South Yukon) Ltd. 1981. Catalogue of fisheries resource information for waterbodies crossed by the Alaska Highway Gas Pipeline Route in southern Yukon Territory. Whitehorse, Yukon Territory and Calgary, Alberta, June 1981.
- 15 - Horler, A. 1982. On estimating the productivity of select Yukon lakes using the morphoedaphic index Yukon lake survey 1981. Draft. Department of Fisheries and Oceans, Whitehorse, Yukon Territory.
- 16 - Mathers, J.S., N.O. West and B. Burns. 1981. Aquatics and wildlife resources of seven Yukon streams subject to placer mining. Federal government report, September, 1981.
- 17 - Northern Natural Resource Services, Ltd. 1976. An environmental assessment of the Sixty Mile River in summer, August, 1976. Submitted to Cogasa Mining Corporation, Vancouver, B.C.
- 18 - Northern Natural Resource Services, Ltd. 1977a. Collection of fisheries information from waterbodies along the proposed Alaska Highway Gas Pipeline Route to July 15, 1977. Submitted to D.F.O., Fish. & Mar. Serv., Vancouver, B.C.
- 19 - Northern Natural Resource Services, Ltd. 1977b. Collection of fisheries information from waterbodies associated with pipeline routes in the Yukon Territory from Dawson to Watson Lake, September 1, 1977. Submitted to D.F.O., Fish. & Mar. Serv., Vancouver, B.C.
- 20 - Schouwenburg, W.J. (Ed.). 1974. The Aishihik hydroelectric development, implications for fisheries resource maintenance. Fish. & Mar. Serv. Tech. Rep. PAC/T-74-19.
- 21 - Sergy, G., Weagle, K., Robson, W., and B. Ruggles. 1976. Water quality and biological investigations in the vicinity of the MacMillan Tungsten Property, AMAX Northwest Mining Co. Ltd. D.O.E., E.P.S., Manuscript 9-NW-76-1.
- 22 - Walker, C.E., R.F. Brown and D.A. Kato. 1974. Catalogue of fish and stream resources of Carmacks area. Fish. & Mar. Serv. Tech. Rep. PAC/T-74-8.
- 23 - Walker, C.E. 1976. Studies on the freshwater and anadromous fishes of the Yukon River within Canada. Fish & Mar. Serv. Tech. Rep. PAC/T-76-7.

ADDITIONS

- 24 - Environmental Management Associates, 1980. Enumeration of spawning salmon in aquatic systems along the Alaska Highway Gas Pipeline in southern Yukon Territory, 1980. Prepared for Foothills PipeLines (South Yukon) Ltd., Calgary, Alberta.
- 25 - Shephard, C.D., and D.J. Davies, 1982. (In preparation). A survey of lakes in the MacMillan Pass area with estimates of potential fish production. Government of Yukon, Department of Renewable Resources, Resource Planning and Management Branch.

REFERENCES — SALMON

- 1 - Brown, R.F., M.S. Elson and L.W. Steigenberger. 1976. Catalogue of aquatic resources of the upper Yukon River drainage (Whitehorse Area). D.O.E. Fish. & Mar. Serv. Tech. Rep. PAC/T-76-4.
- 2 - Canada, Department of the Environment. 1973a. Catalogue of fish and stream resources of the Teslin Watershed. Fish. & Mar. Serv. Tech. Rep. PAC/T-73-13.
- 3 - Canada, Department of the Environment. 1973b. Land Use Information Series maps. Prepared by Lands Directorate, Environmental Management Service, D.O.E.
- 4 - Canada, Department of Fisheries & Oceans. 1982b. Lake and stream files. Fisheries & Oceans, Whitehorse, Yukon Territory.
- 5 - Elson, M.S. 1974. Catalogue of fish and stream resources of east central Yukon Territory. D.O.E. Fish. & Mar. Serv. Tech. Rep. PAC/T-74-4.
- 6 - Foothills PipeLines (South Yukon) Ltd. 1981. Catalogue of fisheries resource information for waterbodies crossed by the Alaska Highway Gas Pipeline Route in Southern Yukon Territory. Whitehorse, Yukon Territory and Calgary, Alberta, June 1981.
- 7 - Northern Natural Resource Services, Ltd. 1977a. Collection of fisheries information from waterbodies along the proposed Alaska Highway Gas Pipeline Route to July 15, 1977. Submitted to D.F.O., Fish. & Mar. Serv., Vancouver, B.C.
- 8 - Northern Natural Resource Services, Ltd. 1977b. Collection of fisheries information from waterbodies associated with pipeline routes in the Yukon Territory from Dawson to Watson Lake, September 1, 1977. Submitted to D.F.O., Fish. & Mar. Serv., Vancouver, B.C.
- 9 - Walker, C.E., R.F. Brown and D.A. Kato. 1974. Catalogue of fish and stream resources of Carmacks area. Fish. & Mar. Serv. Tech. Rep. PAC/T-74-8.
- 10 - Walker, C.E. 1976. Studies on the freshwater and anadromous fishes of the Yukon River within Canada. Fish. & Mar. Serv. Tech. Rep. PAC/T-76-7.
- 11 - Environmental Management Associates, 1980. Enumeration of spawning salmon in aquatic systems along the Alaska Highway Gas Pipeline in southern Yukon Territory, 1980. Prepared for Foothills PipeLines (South Yukon) Ltd., Calgary, Alberta.

ADDITIONAL INFORMATION

More detailed or specific information is available from the Department of Fisheries & Oceans, 122 Industrial Road, Whitehorse, Y.T. Y1A 2T9.