



You are here : Home > RAMP > Monitoring Database

Regional Aquatics Monitoring Program

- Overview of RAMP
- Monitoring Approach and Components
- Monitoring Database
  - Monitoring Locations Map
  - Map Data Download
  - Request Data
- Acid Sensitive Lakes
- Benthic Invertebrate Communities
- Climate & Hydrology
- Fish Populations
  - Fish Inventory
  - Muskeg River Fish Fence
    - Muskeg River Fish Fence
    - Number of Fish Caught Report
- Data codes**
- Sentinel Species Program
- Fish Tissue Program
- Fish Assemblage Monitoring
- Sediment Quality
- Water Quality
- Reports and Publications
- Community Programs
- Frequently Asked Questions
- News
- Image Gallery
- References

Interactive Features

Monitoring locations map

[browse all...](#)

Index of Codes used in RAMP Muskeg Fish Fence Program Data

1.1 Species

These species codes are applied across all fisheries components.

*sources: Fish Ageing Methods for Alberta Table 1 Mackay et al. (1990); RAMP 2002 Report Appendix XIII Table XIII.1; RAMP 2005 Technical Report Appendix G.1 Table G.1-1; RAMP Fish Inventory Data Sheet from Oct 31, 2006.*

Species Abbreviation	Common Name	Scientific Name
ARGR	Arctic grayling	Thymallus arcticus
ARLM	Arctic lamprey	Lampetra japonica
BKTR	brook trout	Salvelinus fontinalis
BRMN	brassy minnow	Hybognathus hankinsoni
BRST	brook stickleback	Culaea inconstans
BLTR	bull trout	Salvelinus confluentus
BURB	burbot	Lota lota
CISC	cisco	Coregonus artedii
EMSH	emerald shiner	Notropis atherinoides
FLCH	flathead chub	Platygobio gracilis
FTMN	fathead minnow	Pimephales promelas
GOLD	goldeye	Hiodon alosoides
LKCH	lake chub	Couesius plumbeus
LKTR	lake trout	Salvelinus namaycush
LKWH	lake whitefish	Coregonus clupeaformis
LNDC	longnose dace	Rhinichthys cataractae
LNSC	longnose sucker	Catostomus catostomus
MNWH	mountain whitefish	Prosopium williamsoni
NRPK	northern pike	Esox lucius
NNST	ninespike stickleback	Pungitius pungitius
NRDC	northern redbelly dace	Phoxinus eos
PRDC	pearl dace	Semotilus margarita
SLSC	slimy sculpin	Cottus cognatus
SPSC	spoonhead sculpin	Cottus ricei
SPSH	spottail shiner	Notropis hudonius
SPSC	spoonhead sculpin	Cottus ricei
RVSH	river shiner	Notropis blennioides
RNTR	rainbow trout	Oncorhynchus mykiss
TRPR	trout-perch	Percopsis omiscomaycus
WALL	walleye	Sander vitreus
WHSC	white sucker	Catostomus commersoni
YLPR	yellow perch	Perca flavescens
UNK	unknown species	-

1.2 Sex

These sex codes are applied across all fisheries components.

*source: RAMP Fish Inventory*

Code	Description

F	Female
M	Male
U	Unknown

Blank fields denote that the sex was not recorded.

### 1.3 Stage

These stage codes are applied across all fisheries components.

source: RAMP Fish Inventory

Code	Description
F	Fry
J	Juvenile
A	Adult
U	Unknown

Blank fields denote that the stage code was not recorded.

### 1.4 Age Structure

These age structure codes are applied across all fisheries components.

source: RAMP Fish Inventory

Code	Description
FR	Fin Ray
SC	Scales
SF	Scales + Finray
FR/OP	Finray + operculum (lethal; 2 aging structures taken)
OT	Other (must be specified in comments field)

Blank fields denote that the age structure was not recorded.

### 1.5 Capture Method

These capture method codes are applied across all fisheries components.

source: RAMP Fish Inventory

Code	Description
EF	Electrofisher - Boat
BP	Electrofisher - Backpack
GN	Gill Net
SN	Beach Seine
MT	Minnow Trap
FT	Fry Trap
PE	Post-Emergent Fry Drift Trap
DN	Drift Net
TU	Trap - Fish Moving Upstream
TD	Trap - Fish Moving Downstream
OT	Other (must be specified in comments field)

Blank fields denote that the capture method was not recorded.

### 1.6 Maturity

These Maturity codes are specific to the Muskeg Fish Fence

Code	Description
SP	Spent
PR	Pre-Spawn
RP	Ripe
UN	Unknown

No other maturity codes are acceptable for the fish fence program. Blank fields denote that the maturity was not recorded. This is different than the "UN" value.

### 1.7 Dead

These Dead codes are specific to the Muskeg Fish Fence

Code	Description
Y	Dead
N	Alive

Blank fields are interpreted as "Alive" ("N" code).

## 1.8 Capture History

These Capture History codes are specific to the Muskeg Fish Fence

Code	Description
C	Capture
R	Recapture (fish that has already been caught, tagged, and released in current year)
OR	Old Recapture (fish was caught, tagged, and released in some other prior year)

## 1.9 Eye External Pathology

source: RAMP 2009 Technical Report Appendix G.2 Table G.2-1

Pathology Code	Pathology Index Value	Variable Condition
N	0	no aberrations; good "clear" eye
B	30	blind; an opaque eye (one or both)
E	30	swollen, protruding eye (one or both)
H	30	hemorrhaging or bleeding in the eye (one or both)
M	30	missing one or both eyes
OT	30	other; any condition not covered above

## 1.10 Gill External Pathology

source: RAMP 2009 Technical Report Appendix G.2 Table G.2-1

Pathology Code	Pathology Index Value	Variable Condition
N	0	normal; no apparent aberrations
F	30	frayed; erosion of tips of gill lamellae resulting in "ragged" gills
C	30	clubbed; swelling of the tips of gill lamellae
M	30	marginate; gills with light, discoloured margin along tips the lamellae
P	30	pale; very light in colour
OT	30	other; any condition not covered above

## 1.11 Pseudobranch External Pathology

source: RAMP 2009 Technical Report Appendix G.2 Table G.2-1

Pathology Code	Pathology Index Value	Variable Condition
N	0	normal; flat, containing no aberrations
S	30	swollen; convex in aspect
L	30	lithic; mineral deposits, white, somewhat amorphous spots
I	30	inflamed; redness, hemorrhage, or other
OT	30	other; any condition not covered above

## 1.12 Thymus External Pathology

source: RAMP 2009 Technical Report Appendix G.2 Table G.2-1

Pathology Code	Pathology Index Value	Variable Condition
0	0	no hemorrhage
1	10	mild hemorrhage
2	20	moderate hemorrhage
3	30	severe hemorrhage

## 1.13 Hindgut External Pathology

source: RAMP 2009 Technical Report Appendix G.2 Table G.2-1

Pathology Code	Pathology Index Value	Variable Condition
0	0	normal; no inflammation or reddening
1	10	slight inflammation or reddening
2	20	moderate inflammation or reddening

3	30	severe inflammation or reddening
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### 1.14 Skin External Pathology

source: RAMP 2009 Technical Report Appendix G.2 Table G.2-1

Pathology Code	Pathology Index Value	Variable Condition
0	0	normal; no skin aberrations
1	10	mild skin aberrations
2	20	moderate skin aberrations
3	30	severe skin aberrations

### 1.15 Fin External Pathology

source: RAMP 2009 Technical Report Appendix G.2 Table G.2-1

Pathology Code	Pathology Index Value	Variable Condition
0	0	no active erosion
1	10	light active erosion
2	20	moderate active erosion with some hemorrhaging
3	30	severe active erosion with hemorrhaging

### 1.16 Opercle External Pathology

source: RAMP 2009 Technical Report Appendix G.2 Table G.2-1

Pathology Code	Pathology Index Value	Variable Condition
0	0	no shortening
1	30	mild shortening
2	30	severe shortening

### 1.17 Parasite External Pathology

source: RAMP 2009 Technical Report Appendix G.2 Table G.2-1

Pathology Code	Pathology Index Value	Variable Condition
0	0	No observed parasites
1	10	few observed parasites
2	20	moderate parasite infestation
3	30	numerous parasites

### 1.18 Body Form External Pathology

source: RAMP 2010; Revised June 2010.

Pathology Code	Pathology Index Value	Variable Condition
0	0	no deformities
1	30	any deformity (provide details)

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