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RAMP

RIVER

PEOPLE

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Index of Codes used in Sentinel Species Program

1.1 Sex Codes

These sex codes are applied across all fisheries components.

source: *RAMP Fish Inventory*

Code	Description
F	Female
M	Male
U	Unknown or Not Recorded

Blank fields are not allowed.

1.2 Stage Codes

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.

1.3 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)
OF	Otolith + Finray
O	Otolith

Blank fields denote that the age structure was not taken or was not recorded.

1.4 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	ninespik 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 hudsonius
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	-

There should never be any blank species code fields.

1.5 Maturity

source: RAMP Fish Inventory

Code	Description
IM	Immature
MA	Maturing
SD	Seasonally Developing
PR	Pre-spawning
RP	Ripe
SP	Spent
RS	Resting
RB	Reabsorbing
UN	Unknown

Blank maturity values are not allowed. Note: Fish Fence has different maturity codes

1.6 Internal Pathology - Mesenteric Fat

source: RAMP 2005 Technical Report Appendix G.2 Table G.2-1

Pathology Code	Pathology Index Value	Variable Condition
0	n/a	none
1	n/a	< 50 % coverage of mesentery
2	n/a	50 % coverage of mesentery
3	n/a	> 50 % coverage of mesentery
4	n/a	100% of mesentery covered

Blank fields denote that the mesenteric fat internal pathology was not recorded.

1.7 Internal Pathology - Liver

source: RAMP 2005 Technical Report Appendix G.2 Table G.2-1

Pathology Code	Pathology Index Value	Variable Condition
A	0	normal; solid red or light red colour
C	30	"fatty" liver; "coffee with cream" colour
D	30	nodules in the liver; cysts or nodules
E	30	focal discolouration; distinct localized colour changes
F	30	general discolouration; colour change in whole liver
OT	30	other; any condition not covered above

Blank fields denote that the liver's internal pathology was not recorded.

1.8 Internal Pathology - Spleen

source: RAMP 2005 Technical Report Appendix G.2 Table G.2-1

Pathology Code	Pathology Index Value	Variable Condition
B	0	normal; black, very dark red, or red
G	30	granular; rough appearance of spleen
D	30	nodular; containing fistulas or nodules of varying sizes
E	30	enlarged; noticeable enlarged
OT	30	other; any condition not covered above

Blank fields denote that the spleen's internal pathology was not recorded.

1.9 Internal Pathology - Gall Bladder

source: RAMP 2005 Technical Report Appendix G.2 Table G.2-1

Pathology Code	Pathology Index Value	Variable Condition
0	0	normal
1	30	enlarged
2	n/a	parasites

Blank fields denote that the gall bladder's internal pathology was not recorded.

1.10 Internal Pathology - Kidney

source: RAMP 2005 Technical Report Appendix G.2 Table G.2-1

Pathology Code	Pathology Index Value	Variable Condition
N	0	normal; firm dark red colour, lying relatively flat along vertebral column
S	30	swollen; enlarged or swollen wholly or in part
M	30	mottled; gray discolouration
G	30	granular; granular appearance and texture
U	30	urolithiasis/nephrocalcinosis; white/cream mineral material in tubules
OT	30	other; any condition not covered above

Blank fields denote that the kidney's internal pathology was not recorded.

1.11 Internal Pathology - Parasites

source: RAMP 2005 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

Blank fields denote that the parasitic internal pathology was not recorded.

1.12 Maturity

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.

1.13 External Pathology - Parasites

source: RAMP 2005 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

Blank fields are interpreted as 0 - no observed parasites or that no value was recorded.

1.14 External Pathology - Eyes

source: RAMP 2005 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

Blank fields are interpreted as N - no aberrations or that no value was recorded.

1.15 External Pathology - Gills

source: RAMP 2005 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

Blank fields are interpreted as N - normal or that no value was recorded.

1.16 External Pathology - Fins

source: RAMP 2005 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

Blank fields are interpreted as 0 - no active erosion or that no value was recorded.

1.17 External Pathology - Opercles

source: RAMP 2005 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

Blank fields are interpreted as 0 - no shortening or that no value was recorded.

1.18 External Pathology - Pseudobranchs

source: RAMP 2005 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

Blank fields are interpreted as N - normal or that no value was recorded.

1.19 External Pathology - Body

source: RAMP 2010; Revised June 2010

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

Blank fields are interpreted as 0 - no deformities or that no value was recorded.

1.20 External Pathology - Skin

source: RAMP 2005 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

Blank fields are interpreted as 0 - normal or that no value was recorded.

1.21 External Pathology - Thymus

source: RAMP 2005 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

Blank fields are interpreted as 0 - no hemorrhage or that no value was recorded.

1.22 External Pathology - Hindgut

source: RAMP 2005 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

Blank fields are interpreted as 0 - normal or that no value was recorded.

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