



Explanation of Map Symbols

REACH SYMBOLS

GENERAL: FISH SPECIES

CHANNEL SUBSTRATE

Example (reach with complex cross-section and substrate)

Rainbow trout (present) Chnook (migration) Coho (probable)

Rb Ch(Cd)

stepped profile 12

15 slope

repeated pattern of confined and bounded cross-section types

inferred substrate referring to confined portion (10' fines, 20' gravel, 30% bedrock, 50% larger)

substrate referring to bounded portion (10' fines, 20' gravel, 30% larger)

Note 1 where the channel or substrate component is man-made, the symbol is underlined

Note 2 where channel or substrate data has not been verified the symbol is underlined

Fish Species

1 Sport and Commercial abbreviations			
	Symbol	Species	Symbol Species
	Ch	Chinook salmon	LT Lake trout
	Cs	Coho salmon	GB German Brown trout
	Cs	Cummeu salmon	MW Mountain Whitefish
	PK	Pink salmon	LE Lake Whitefish
	Sk	Sockeye salmon	Gr Grayling
	Ko	Kokanee salmon	LM Longmouth bass
	Rb	Rainbow trout	SB Smallmouth bass
	St	Steelhead trout	NP Northern pike
	Ct	Cutthroat trout	WP Walleye pike (Pickeree)
		(Coastal)	YP Yellow perch
	YCT	Yellowstone	Sp Sturgeon
		Cutthroat trout	DB Ling (Burbot)
	EB	Eastern Brook trout	Co Carp
		Brook Trout	WF Whitefish

2 05 - indicates known but non-sport or non-commercial species, data bank must be consulted for complete species list

3 Sp - indicates fish observed but not identified

4 Ø - indicates fish not detected at time and place of sampling

5 Absence of any fish species symbol indicates that no sampling information was available

6 (Co) - indicates probable but unconfirmed presence

7 SkT - indicates reach used by species for migration only, no resident population

8 Note: no specific symbol exists for a barren stream. When such a condition is suspected, it may be indicated by Ø (which is an inference that if sampling took place, fish would not be detected)

100

- | Channel | |
|---------|--|
| 1 | <p>Longitudinal Profile</p> <ul style="list-style-type: none"> s - stepped repetitive sequence of slopes or forms r - regular homogeneous or continuous profile |
| 2 | <p>Slope % (elevation gain/reach length)</p> <ul style="list-style-type: none"> > 31 measured to nearest percent < 31 measured to nearest tenth percent |
| 3 | <p>Cross-section</p> <ul style="list-style-type: none"> c - confined (channel is entrenched or lateral movement is controlled by banks) b - bounded (channel movement is limited by valley walls near the edge of the floodplain) u - unconfined (channel is not bounded by valley wall and much lateral movement or flooding is possible at high flows) |

100

Substrate Materials

Fines, gravels and bedrock are listed in sequence to nearest 10%, expressed as an integer. Larger are inferred (see example):

- 1 fines - materials in 0-2 mm size class
- 2 gravels - materials in 2-100 mm size class
- 3 larges - materials greater than 100 mm in size

2 Bedrock percentage indicated by Rn, where integer n represents percentage. R without integer implies 0-10%

3 F, G, L or R used alone indicates 90-100% of a reach is in one category size: fines, gravels, larges or rock respectively

STREAM REACHES WITH LIMITED INFORMATION

- STREAM REACHES WITH LIMITED INFORMATION**
- 1 Slope
 $I > 5\%$
 $II < 5\%$
- 2 Cross-section
 c confined
 u unconfined
- 3 Wetland Class
 m - marsh s - swamp
 b - bog p - pond
 f - fen
- eg Ic(b) - a steeply sloping confined channel,
 probably through an alpine bog

11

LAKES			
	General	Fish Species	T D S
		Max depth	% Littoral area
1	Fish species	same as streams	
2	T.D.S. total dissolved solids, if available		
3	Maximum depth measured to nearest meter		
4	Littoral area measurement or visual estimate of % of total area < 6m	When estimate is made, parenthesis	

will be used

SITE SPECIFIC STREAM SYMBOLS

Obstructions are symbolized as follows

R (Rock)	Bd (Beaver dam)
L (Log)	B (Bulwer)
B (Blocks)	V (Vertical structure)
D (Man-made dam)	C (Case-control site)
Chn (Channelized)	Cn (Cannon)
Dye	f (Type unknown)

Heights (m) may be indicated as numbers before symbols (e.g. 38 = 38 m rock falls); heights (m) as numbers after symbols (e.g. 150 = 150 m long chute/cascade)

Zones of the above types (plus subsurface flow) may also be indicated with or without height and length information (e.g. zone of chute or cascade)

3R-2000 A 5 m high and 2000 long rock cascade

CH A general zone of flood and side channels

A A persistent debris accumulation

B A bridge

F Ford

2 A site (point) number with biophysical data available

△ A water quality sampling site number

7 A water quantity sampling site number

R-3 A reach boundary Reach number on upstream reach boundary

30R A reach boundary which is also an obstruction

E A major bank or valley side wall slump zone

○ An alluvial sink hole without surface effluent

○ Spring unclassified

○ Spring f fresh
t thermal
s saline

Termination of survey, indicates reach information available

K A karst pothole

— — — Persistent snow or ice

— — — Major watershed boundary

— — — Sub-watershed boundary

23-0400-020-010 Indicate watershed system code n