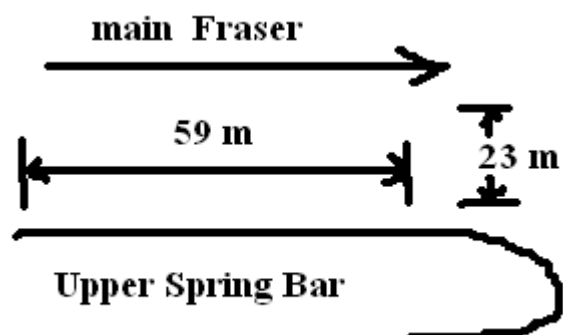


Fraser River Seine Sampling
Fraser River Gravel Stewardship
Committee

07-Nov-07

water temperature 42.9F

Basok, Gadsden, Ferguson, Kwak, Rosenau



Upper Spring Bar

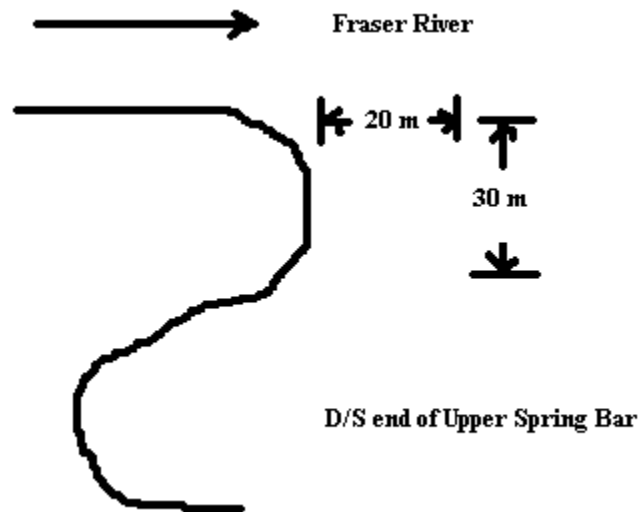
depth feet	3.5
max depth cm	110
area	59 23 1357
T sec	dist. m
velocity	7 1.8 0.26
substrate	gravel sand

Upper Spring Bar

Densities	fish/m ²
mwf	0.0022
Chinook	0.0044
sockeye	0.0007
cottus	0.0037
longnose	
dace	0.0007
spp	0.0037
cutthroat	0.0000
TOTAL	0.0155

species	mwf	chinook	sockeye	cottus	lng-n dace	spp	cutthroat	TOTAL
	86	81	86	47	58	46		
	110	80		42		46		
	98	86		56		46		
		110		51		41		

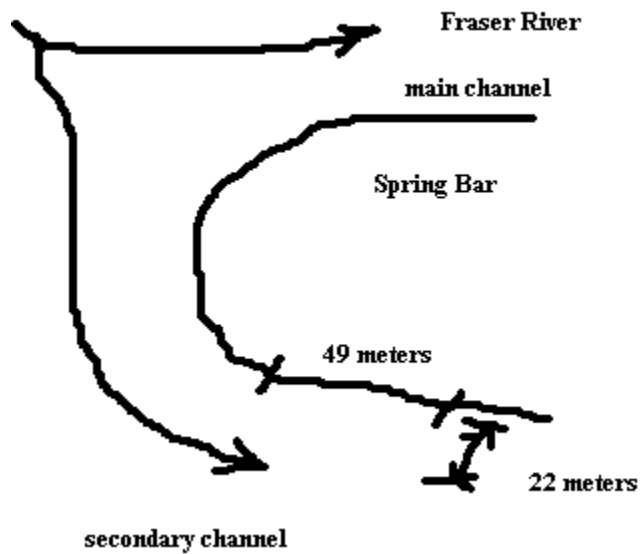
		84		42		36	
		93					
count	3	6	1	5	1	5	21
average							
L	98	89	86	47.6	58	43	



Upper Spring Bar backwater			
depth			
feet		13	max
max depth cm		400	
area	20	30	600

Upper Spring Bar backwater	
Densities	fish/m^2
mwf	0.0017
Chinook	0.0133
sockeye	0.0000
cottus	0.0000
longnose dace	0.0000
spp	0.0000
cutthroat	0.0000

	velocity	T sec	dist. m	m/s					sucker	0.0017
	substrate	60	1.8	0.03					cyprinid	0.0050
		sand							TOTAL	0.0217
species	mwf	chinook	sockeye	cottus	lng-n dace	spp	cutthroat	sucker	cyprinid	TOTAL
	110	79						83	30	
		78							31	
		86							27	
		77								
		72								
		80								
		70								
		60								
count	1	8	0	0	0	0	0	1	3	13
average										
L	110.0	75.3						83.0	29.3	



Spring Bar secondary channel

depth

feet

max depth cm 56

area 49 22 1078

T sec dist. m m/s

velocity 5 1.8 0.36

large

substrate cobble

Spring Bar secondary channel

Densities fish/m²

mwf 0.0028

Chinook 0.0046

sockeye 0.0000

cottus 0.0000

longnose dace 0.0000

spp 0.0000

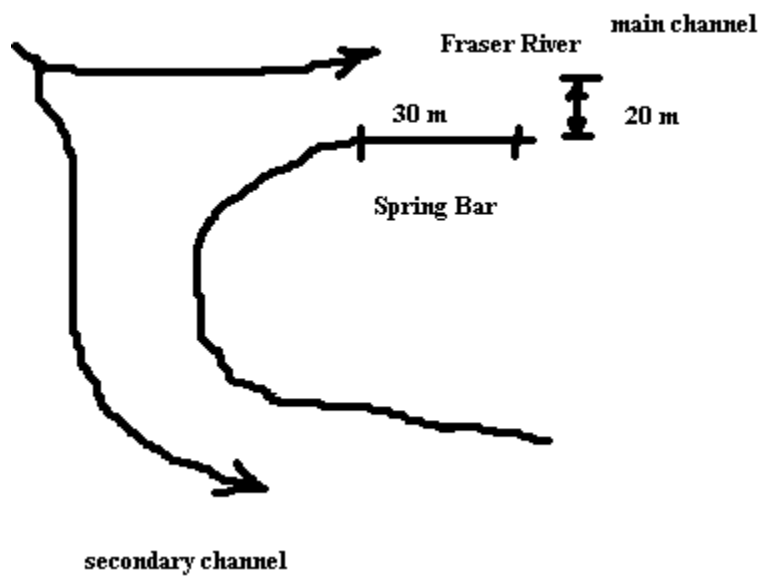
cutthroat 0.0000

sucker 0.0000

cyprinid 0.0009

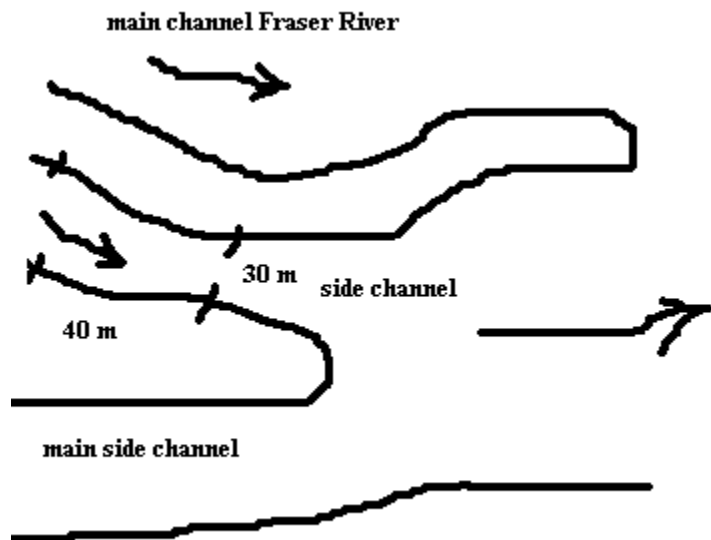
TOTAL 0.0083

species	mwf	chinook	sockeye	cottus	lng-n dace	spp	cutthroat	sucker	cyprinid	TOTAL
	205	75							35	
	210	85								
	87	90								
		85								
		72								
count	3	5	0	0	0	0	0	0	1	9
average										
L	167.3	81.4							35	



Spring Bar main channel	
Densities	fish/m ²
mwf	0.0017
Chinook	0.0100

Spring Bar main channel										sockeye	0.0000	
depth										cottus	0.0000	
feet										lng-n dace	0.0000	
max depth cm										spp	0.0000	
area										cutthroat	0.0000	
T sec										sucker	0.0083	
dist. m										cyprinid	0.0000	
m/s												
velocity												
large										leopard d	0.0017	
substrate										TOTAL	0.0217	
cobble										leopard d		
species	mwf	chinook	sockeye	cottus	lng-n dace	spp	cutthroat	sucker	cyprinid	d	TOTAL	
	250	80						332		47		
		89						347				
		76						355				
		74						322				
		72						310				
		72										
count	1	6						5		1	13	
averageL	250	77.16667						333.2		47		



Spring Bar bisecting side channel

depth

feet

max depth cm 30

area 30 40 1200

T sec dist. m m/s

velocity 4 1.8 0.45

substrate gravel cobble

Spring Bar bisecting side channel

Densities fish/m²

mwf 0.0000

Chinook 0.0150

sockeye 0.0000

cottus 0.0000

Ing-n dace 0.0000

spp 0.0000

cutthroat 0.0000

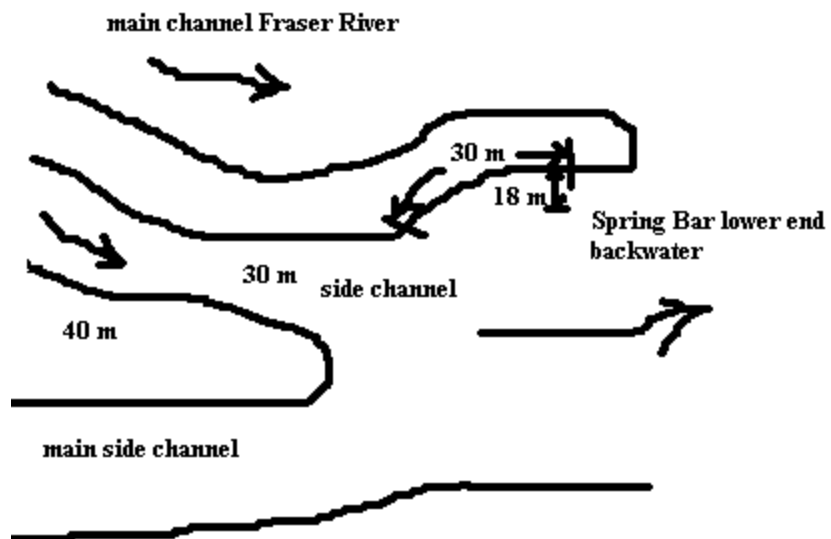
sucker 0.0008

cyprinid 0.0000

leopard d 0.0000

TOTAL 0.0158

species	mwf	chinook	sockeye	cottus	lng-n dace	spp	cutthroat	sucker	cyprinid	leopard d	TOTAL
		90						52			
		72									
		97									
		96									
		91									
		92									
		104									
		92									
		90									
		95									
		82									
		83									
		75									
		90									
		88									
		83									
		75									
		90									
count		18						1		19	
averageL		88.1						52.0			



Spring Bar lower end backwater

depth

feet

max depth cm 80

area 30 18 540

T sec dist. m m/s

velocity 40 1.8 0.05

substrate silt sand

Spring Bar lower end
backwater

Densities fish/m²

mwf 0.0000

Chinook 0.0204

sockeye 0.0000

cottus 0.0019

Ing-n dace 0.0000

spp 0.0000

cutthroat 0.0000

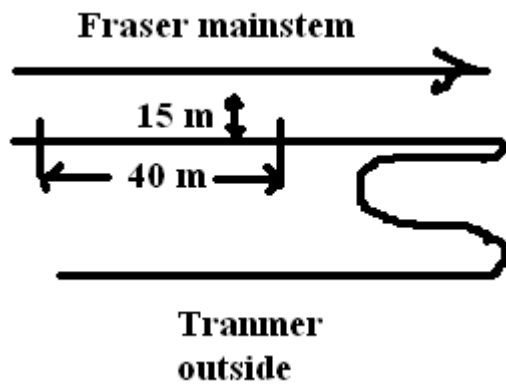
sucker 0.0019

cyprinid 0.1815

leopard d 0.0000

TOTAL 0.2056

species	mwf	chinook	sockeye	cottus	lng-n dace	spp	cutthroat	sucker	cyprinid	leopard d	TOTAL
		87		46				38			
		92									
		82									
		83									
		90									
		88									
		82									
		82									
		90									
		83									
		77									
count		11		1				1	98		111
averageL		85.1						38.0			



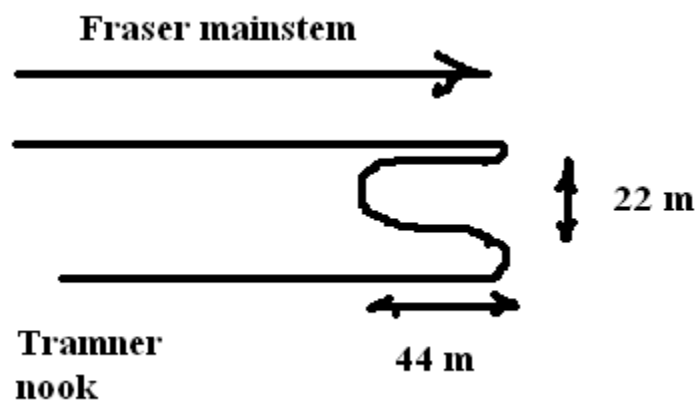
Tranmer outside
Densities fish/m²

Tranmer outside
depth
feet

max depth cm 50
area 40 15 600
T sec dist. m m/s
velocity 3 1.8 0.60
substrate gravel

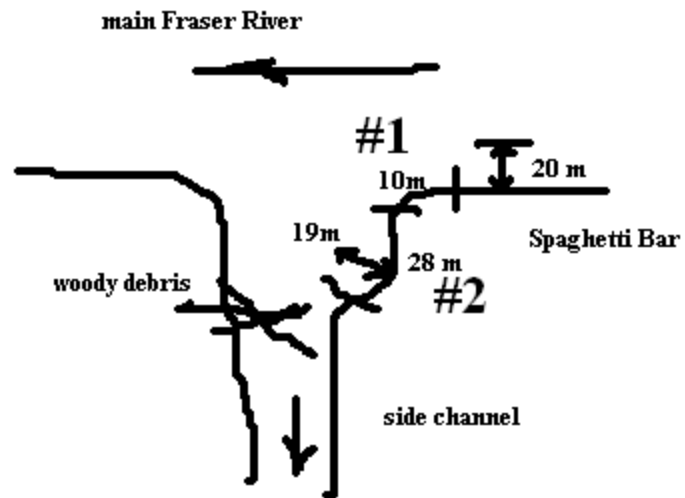
mwf 0.0033
Chinook 0.0000
sockeye 0.0000
cottus 0.0000
lng-n
dace 0.0000
spp 0.0000
cutthroat 0.0000
sucker 0.0000
cyprinid 0.0000
leopard d 0.0000
steelhead 0.1083
TOTAL 0.005

species	mwf	chinook	sockeye	cottus	lng-n dace	spp	cutthroat	sucker	cyprinid	leopard d	STD	TOTAL
count	210										65	
averageL	205.5										65	3



88
83
85
79
86
88
75
83
67
94
97
84
87
92
87
77
76
78
85
87
77
86
87
82
82
66
71
71
78
78
81

		77								
		62								
		83								
		80								
		88								
		73								
		81								
		80								
		78								
		100								
		98								
		68								
		71								
		78								
		94								
		83								
		83								
		83								
count	1	63	13	0	2	0	1	4	3	87
average										
L	98.0	82.5	71.1		82.5		275.0	36.5	22.7	



Spaghetti #1

depth cm			
max depth cm		30	
area	10	20	200
	T sec	dist. m	m/s
velocity	3	1.8	0.60
substrate	large gravel		

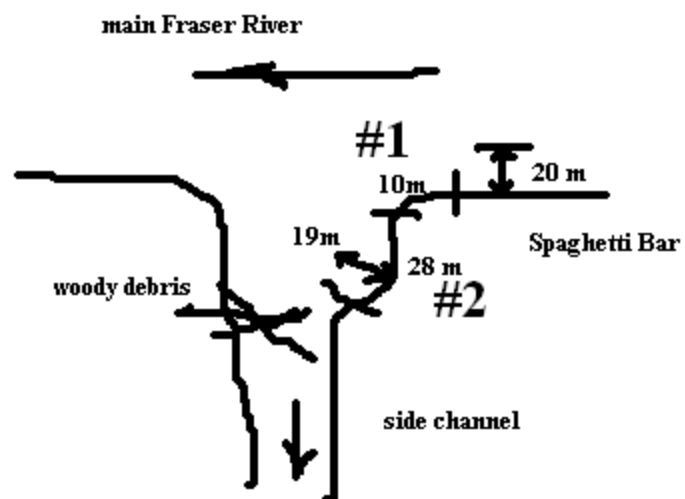
Spaghetti #1

Densities	fish/m ²
mwf	0.0000
Chinook	0.0150
sockeye	0.0000
cottus	0.0150
lng-n	
dace	0.0000
spp	0.0000
cutthroat	0.0000
sucker	0.0000
cyprinid	0.0150
leopard d	0.0000
steelhead	0.0000
TOTAL	0.045

species	mwf	chinook	sockeye	cottus	lng-n	dace	spp	cutthroat	sucker	cyprinid	leopard d	STD	TOTAL
---------	-----	---------	---------	--------	-------	------	-----	-----------	--------	----------	-----------	-----	-------

	77	46	28
	92	47	24
	85	48	26
count	3	3	3
averageL	64.3	36.0	20.3

9



Spaghetti #2

depth

feet

max depth cm 22

area 19 28 532

T sec dist. m m/s

Spaghetti #2

Densities fish/m²

mwf 0.0000

Chinook 0.0827

sockeye 0.0000

cottus 0.0226

lng-n

dace 0.0038

spp 0.0038

cutthroat 0.0000

sucker 0.0038

[illegible]

		86											
		85											
		87											
		91											
		100											
		85											
		82											
		62											
		88											
		90											
		98											
		92											
		89											
		85											
		83											
		82											
		83											
		72											
		81											
		80											
		78											
		97											
count	0	44	0	12	2	0	0	2	13	0	0	5	1
averageL		85.8		47.5	36.5			50.0	29.3			67.6	52.0

FRASER RIVER GRAVEL STEWARDSHIP COMMITTEE 7 NOV
2007 SEINE SAMPLING--Gadsden, Ferguson, Basok, Kwak, Rosenau



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