Stream Location and Conditions

(Use a new data sheet for each stream segment surveyed)	Module 4
Stream Name/Nearest Town	Date
	Watershed code
OrganizationName	Stream Segment#
	Email:
Contact Name	Phone #

Survey Location

•																	
GPS: Latitu	ıde						Lc	ongit	ude								
Survey Star	t Tim	ie:	Survey End Time:														
Location (d	istan	ce fr	om	knov	vn st	ream	lan	dma	rk, d	irect	ions	to b	encl	nmar	k)		
Weather			clear				show	ver (1	1-2.5	cm i	n 24	hr.)			snow	1	
			overc	cast			torm	1 (<2	2.5 cr	n in 2	24 hi	:.) É			rain	on si	now
								`				.,				-	
Water turbi	dity	(cm	visil	bility	')]	Гетр	perat	ure °	C (le	ave	theri	nom	eter 2	2 mir	n.)
							а	uir _				wate	er				
Measuremen	nts ta	aken	eve	ry		m											
Bankfull Ch	ianne	el wi	dth			(m) Average depth						(m)					
Wetted Cha	annel	wi	dth			(m) Average depth_					(m)						
			Firs	t and	Last	Meas	suren	nents	take	1 0.1	m fro	omsti	eam	bank	edge		
Left Bank	0.10																Right Ban
							1										

									8
Wetted Depth									Wetted Depth
Bankfull Depth									Bankfull Depth

Take measurements every 0.5m in streams less than 5m wide, every 1m in streams 5 to 15m

Total Survey Hours (H.mm) _____

Invertebrate Survey Field Data Sheet

(Use a new data sh	neet for each stream	section survey	ed)	Module 4
Stream Name			Dat	e
Stream Section #			San	npling location
sampler used, mesh size,	, total area sampled		# of	f 30cm x 30cm samples
COLUMN A Pollution Tolerance	COLUMN B Number Counted	COLUMN C Number of Taxa		COLUMN D Common Name
		ļ	\square	Caddisfly Larva (EPT)
			\rightarrow	Dobsonfly (hellgrammite)
CATEGORY 1			$ \rightarrow $	Gilled Snail
l l				Mayfly Nymph (EPT)
(pollution				Riffle Beetle
intolerant)				Stonefly Nymph (EPT)
				Water Penny
Sub-total				
				Alderfly Larva
				Aquatic Beetle
				Aquatic Sowbug
CATEGORY 2				Clam, Mussel
				Cranefly Larva
(somewhat tolerant				Crayfish
of pollution)				Damselfly Larva
F /				Dragonfly Larva
[[Fishfly Larva
I [-	Scud
I [-	Watersnipe Larva
Sub-total				F.
				Aquatic Worm
				Blackfly Larva
CATEGORY 3				Leech
CATEGORI 5			\rightarrow	Midge Larva (chironomid)
(pollution			\rightarrow	Planarian
(policion tolerant)			\rightarrow	Pouch and Pond Snails
torer and			\rightarrow	True Bug Adult
			\rightarrow	Water Mite
Sub-total			\rightarrow	Water Mite
TOTAL				

Invertebrate Survey Interpretation Sneet	
(Use a new data sheet for each stream section surv	eyed)
Stream Name	Date

. ..

Stream Section #	Sampling location
sampler used, mesh size, total area sampled	# of 30cm x 30cm samples

A) ABUNDANCE AND DENSITY

ABUNDANCE: total number of organisms from Column B



 $(x 0.09) = m^2 Density$

Total Counted

 m^2 Density

B) PREDOMINANT TAXON

C) WATER QUALITY ASSESSMENTS

POLLUTION TOLERANCE INDEX: use the total number of broad taxonomic groups found in each tolerance category, from Field Data Sheet Column D

POLLUTION TOLERANT INDEX							
Good	Acceptable	Marginal	Poor				
>22	22-17	16-11	<11				
		10 11					



Module 4

EPT INDEX: total number of **EPT** taxa from **Column C**, Field Data Sheet

EPT INDEX							
Good	Acceptable	Marginal	Poor				
>8	5-8	2-4	0-1				

EPT are stonefly, caddisfly and mayfly

=

=

EPT TO TOTAL RATIO: total number of **EPT** organisms from **Column B** Field Data Sheet divided by the total number of organisms

EPT TO TOTAL RATIO							
Good	Acceptable	Marginal	Poor				
0.75 - 1.00	0.5 - 0.74	0.25 - 0.49	0 - 0.24				

÷		=	
# of EPT	total		

Invertebrate Survey Interpretation Sheet

(Use a new data sheet for each stream section surv	eyed) Module 4
Stream Name	Date
Stream segment #	sampling location
sampler used, mesh size, total area sampled	# of 30cm x 30cm samples

D) DIVERSITY ASSESSMENT

TOTAL NUMBER OF TAXA: from Column C, Field Data Sheet

PREDOMINANT TAXON RATIO: divide the **number** of invertebrate in the **predominant taxon** by the **total number of invertebrates** counted:

PREDOMINANT TAXON RATIO								
Good	Acceptable	Marginal	Poor					
0 - 0.39	0.40 - 0.59	0.60 - 0.79	0.80 - 1.0					

E) SITE ASSESSMENT RATING:

Assign a rating between 1 and 4 to each index or ratio, then average the results to produce a general site assessment.

SITE ASSESSMENT RATING			
Good	Acceptable	Marginal	Poor
4	3	2	1

General Comments -Unknown Bugs

SITE ASSESSMENT RATING			
Index or Ratio	Rating		
Pollution Tolerance Index			
EPT Index			
EPT to Total Ratio			
Predominant Taxon Ratio			
Total			
Average			

÷

total

predominant

_=

see page 13 and 14 of Module 4 for further information