TABLE 2.10Aquatic Invertebrate Tally

A	Invertebrate Group	Number of Different Types		umbe Each H	Туре		As Y	Total Individuals
	Examplefly (Example)	4	3	1	5	1		10
	Stonefly nymph							
αχα	Mayfly nymph							
Group One Taxa	Dobsonfly larva							
를 다	Water penny larva							
G	Riffle beetle larva or adult							
	Caddisfly larva							
	Other beetle larva							
	Cranefly larva							
	Scuds							
axa	Clams and mussels							
Group Two Taxa	Crayfish							
마	Dragonfly nymph							
Gro	Damselfly nymph							
	Blackfly larva							
	Alderfly larva							
	Watersnipe larva							
DX.	Midge larva							
e Tay	Snail							
Group Three Ta	Sowbug							
dno	Leech							
9	Aquatic worm							
	Unknown organisms (describe or sketch each on separate page)							
	Totals							

INDEX OF BIOTIC INTEGRITY DATA FORM

Name	Sampling Date
Other Students in Your Group	
Study Site Location	Teacher's Name
Weather Conditions on Sampling Date	

1. Did you pool your data with another group? If so, why?

TABLE 2.11Species Richness Subscore

Number of	Species Richness
Species	Subscore

Reference Table				
If your "Number of Species" is	Then use this subscore			
>26	12			
19-26	9			
11–18	6			
<11	3			

TABLE 2.12Dominance Index Subscore

(A)	(B)	(C)	(D)	(E)
Most abundant species	# of individuals of most abundant species	# of individuals of all species	Proportion dominant (B÷C)	Dominance subscore

Reference Table			
If (D) is	Then use this subscore		
>.30	12		
.3050	8		
>.50	4		

90

TABLE 2.13
Indicator Species

(F) Number of mayfly species	(G) Number of stonefly species	(H) Number of caddisfly species	(I) Sum of F+G+H	Indicator Species Subscore

Reference Table			
If (I) is	Then use this subscore		
>10	12		
6-10	9		
2-5	6		
0-1	3		

2. Calculate the Biotic Index Score using the following formula:

TABLE 2.14Index of Biotic Integrity and Water Quality

Index of Biotic Integrity	Water Quality(circle one)
32-36	Excellent
23-31	Good
15–22	Fair
< 15	Poor

3. What is the water quality of your stream segment, as determined by the Index of Biotic Integrity? What local conditions do you think may be affecting water quality here?