



# GLOBAL WATER WATCH

## STREAM BIOMONITORING RECERTIFICATION

Monitor \_\_\_\_\_ Phone No. \_\_\_\_\_

Group \_\_\_\_\_

Workshop Location \_\_\_\_\_ Date \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**A.** Answer the questions below by entering T (true) or F (false) in the first column, without using the GWW monitoring manual.

		F / V	Pg.
1	The word benthic refers to living on the bottom of a waterbody		
2	An ephemeral stream is one that is dry a few days of the year		
3	A riparian zone without vegetation prevents and filters nutrients from runoff		
4	GWW recommends collecting macros mainly in the riffles of a stream		
5	The predators are the more abundant macros in headwaters		
6	More macroinvertebrates live in riffles because is where more oxygen is found		
7	It is more efficient to collect macros walking downstream		
8	GWW includes in Group 1 the macros intolerant of pollution		
9	Macros in Group 3 do not live in water of excellent quality		
10	All the plecoptera (stoneflies) are very sensitive to pollution		
11	Water beetles are somewhat tolerant to pollution and are in Group 2		
12	All the ephemeroptera (mayflies) are resistant to contamination		
13	Being sedentary makes macroinvertebrates good indicators of water quality		
14	In the technique of GWW there are trichoptera (caddisflies) in Groups 1 and 2		
15	Many aquatic worms present indicate good quality of water		
16	A river with more biodiversity has better water quality		
17	Water moves more slowly in low reaches streams		
18	GWW recommends conducting biomonitoring a few hours after it has rained		
19	The GWW biotic index gives more importance to abundance than the diversity		
20	As stream order increases and streams becomes wider, the primary food input to a stream shifts from leaf litter to algae		

**B.** Use the GWW monitoring manual to find a page with information that can support your answer, and write the page number on the second column.

**C.** Name the waterbody of your interest and the concern you have about it.

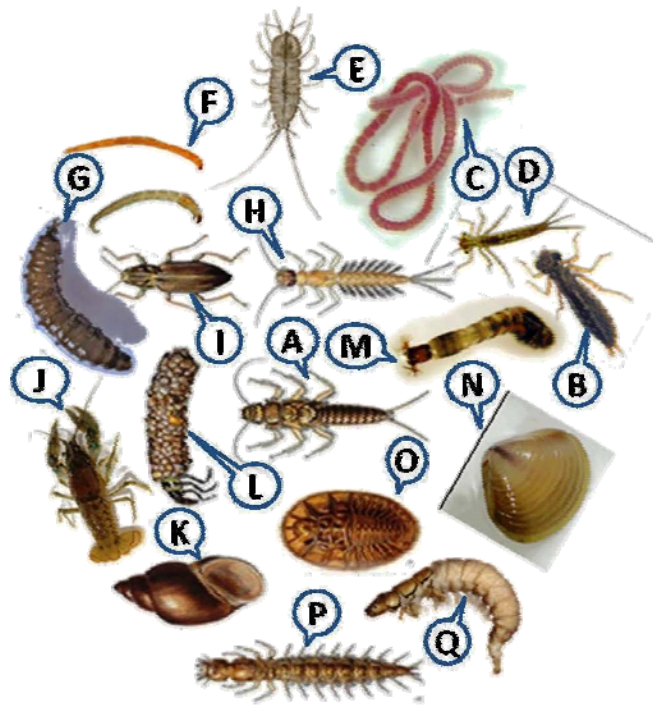
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D. Identify the macroinvertebrates shown below and complete the table. In column **GT** write the group of pollution tolerance in which that macroinvertebrate is grouped according to GWW.

ID	Macroinvertebrate	GT	№
A			6
B			4
C			3
D			4
E			9
F			4
G			4
H			6
I			6
J			4
K			14
L			6
M			12
N			4
O			4
P			2
Q			8



№ Taxa Group 1	№ Taxa Group 2	№ Taxa Group 3

E. Use the values on the table to calculate the Biotic Index and make comments about it.

Total # of taxa	Biotic Index

\_\_\_\_\_

\_\_\_\_\_

Observations/Comments: \_\_\_\_\_


\_\_\_\_\_

\_\_\_\_\_

F. I hereby declare that after this session, my GWW Biomonitoring certification is current, and that I will conduct the testing and submit to GWW credible data to the best of my knowledge.

Monitor Signature: \_\_\_\_\_

GWW Trainer: \_\_\_\_\_

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