

River data

Coordinates: X: _____ Y: _____

River name: _____

Basin: _____

Municipality: _____

Type of river:	<input type="radio"/>	HIGH MOUNTAIN RIVER	<input type="radio"/>	MEDITERRANEAN RIVERS
	<input type="radio"/>	MOUNTAIN RIVER	<input type="radio"/>	TEMPORARY RIVERS
	<input type="radio"/>	MID-ALTITUDE RIVERS AND STREAMS	<input type="radio"/>	KARSTIC RIVERS
	<input type="radio"/>	LOWLAND RIVERS	<input type="radio"/>	RAMBLA

Short description:

User identification

Your name _____

Riu.Net code (if applicable) _____

Assessment date

date/month/year _____

Time _____

Photograph

Did you take a picture of the river? _____

What's the name of the picture? _____

For rivers that are not in High Mountain Areas (T2, T3, T4, T5, T6, T7, T8)
























A IS THERE RIPARIAN FOREST IN THIS RIVER STRETCH?	1. Riparian forest with native vegetation	5
	2. Prevalence of bushes with scattered trees	3
	3. Riparian forest with non-native trees or giant cane	2
	4. Riparian forest without trees, but giant canes or agricultural activity	1
	5. With man-made buildings or agricultural activities	0
B IS THE RIPARIAN FOREST CONTINUOUS ALONG THE STUDIED STRETCH?	1. Continuous vegetation on both river margins	5
	2. Disconnected patches of vegetation	3
	3. Only clutches or isolated trees are present	1
	4. The riparian area does not have trees or shrubs	0
C WHAT KIND OF LANDSCAPE IS THERE NEXT TO THE RIPARIAN AREA?	1. Basin landscape unchanged	5
	2. Basin landscape modified	3
	3. Heavily modified basin landscape	1
	4. Urbanized basin landscape	0
D IS THE RIPARIAN AREA FULL OF LITTER?	1. Without litter	5
	2. There is some litter but it is not abundant	3
	3. Abundant litter	0
E HAS HUMAN ACTIVITY MODIFIED THE RIVER CHANNEL?	1. Human activity has not modified the river channel	5
	2. Riparian area modified by terraces	3
	3. Partly channelized river	1
	4. Channelized river	0
F HOW MANY HARD SUBSTRATA HAS THE RIVER? Boulder, stones, pebbles, gravels, clay and silt	1. 5 types	5
	2. 4 types	4
	3. 3 types	3
	4. 2 types	2
	5. Only 1 type	1
	6. Flagstones or cemented riverbed	0
G ARE THERE AREAS WITH DIFFERENT WATER VELOCITY AND DEPTH? Shallow and fast, deep and slow, Deep and fast, shallow and slow	1. All possible regimes	5
	2. 3 out of the four regimes	3
	3. 2 out of the four regimes	2
	4. Only 1 type of regime	1
H BESIDE HARD SUBSTRATA, IS THERE ANY OTHER TYPE OF SUBSTRATUM?	1. 6 or 5 types	5
	2. 4 types	4
	3. 3 types	3
	4. 2 types	2
	5. Only 1 type	1
	6. Not any heterogeneity	0
TOTAL		






















Only for rivers in High Mountain Areas (T1)

AB IS IT LOCATED IN A HIGH MOUNTAIN AREA WITHOUT HUMAN ACTIVITY?	1. No impact of human activity	10
	2. Moderate impact of human activity	5
	3. High impact of human activity	1
C WHAT KIND OF LANDSCAPE IS THERE NEXT TO THE RIPARIAN AREA?	1. Basin landscape unchanged	5
	2. Basin landscape modified	3
	3. Heavily modified basin landscape	1
	4. Urbanized basin landscape	0
D IS THE RIPARIAN AREA FULL OF LITTER?	1. Without litter	5
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	6. Not any heterogeneity	0
TOTAL		

Mark with an (x) the third column if the corresponding group macroinvertebrat is identified in the river. **We will use the color that corresponds to our river type** to determine the biological quality at **sheet 4**. The quality is represented by a gradient of five colors: blue, green, yellow, orange and red, where blue represents the best quality while the red the worst.

T1= High Mountain Rivers, T2 = Mountain Rivers, T3 = Mid-altitude Rivers and Streams, T4 = Lowland Rivers, T5 = Mediterranean Rivers, T6 = Temporary Rivers, T7 = Karstic Rivers, T8 = Rambla.

Macroinvertebrate group		X	Colour according to the river typology				
			T1	T2 T3	T4 T6 T8	T5	T7
	Heptageniidae		Blue	Blue	Blue	Blue	Blue
	Polymitarcidae		Grey	Grey	Grey	Grey	Blue
	Leptophlebiidae		Blue	Blue	Blue	Blue	Blue
	Athericidae		Blue	Blue	Blue	Blue	Blue
	Leptoceridae		Blue	Blue	Blue	Blue	Blue
	Sericostomatidae		Blue	Blue	Blue	Blue	Grey
	Ephemeridae		Blue	Blue	Blue	Blue	Grey
	Perlidae/ Perlodidae		Blue	Blue	Blue	Blue	Grey
	Blephariceridae		Blue	Blue	Blue	Grey	Grey
	Nemouridae		Green	Green	Blue	Green	Grey
	Elmidae (Larva o Adult)		Green	Green	Blue	Green	Green
	Limnephilidae		Green	Green	Green	Green	Green
	Zygoptera		Green	Green	Green	Green	Green
	Anisoptera		Green	Green	Green	Green	Green
	Rhyacophilidae		Green	Green	Green	Green	Green
	Ephemerellidae		Green	Green	Green	Green	Green
	Leuctridae		Green	Green	Green	Green	Green
	Psychomyiidae		Green	Green	Green	Green	Green
	Hydroptilidae		Grey	Yellow	Green	Yellow	Green
	Neritidae o Melanopsidae		Grey	Grey	Grey	Grey	Green
	Gammaridae		Grey	Yellow	Yellow	Yellow	Green
	Polycentropodidae		Grey	Yellow	Yellow	Yellow	Green
	Baetidae		Yellow	Yellow	Yellow	Yellow	Yellow

Macroinvertebrate group		X	Colour according to the river typology				
			T1	T2 T3	T4 T6 T8	T5	T7
	Caenidae						
	Simuliidae						
	Ancyliidae						
	Hydropsychidae						
	Tipulidae						
	Physidae						
	Erpobdellidae						
	Lymnaeidae						
	Hydrobiidae						
	Oligochaeta						
	Culicidae						
	Chironomidae						
	Syrphidae						
	Planorbiidae						
	Heteroptera						
	Dytiscidae (Larva o Adult)						
	Ceratopogonidae						
	Assellidae						
	Dreissenidae						
	Corbiculidae						
	Decapoda						
TOTAL of macroinvertebrate families							
NUMBER of Bioindicator families with the best quality (0-5)							

Hydromorphological

SHEET 2

The value obtained in sheet 2 defines the hydromorphological quality according to this table:

Total:	quality
0-10	
11-20	
21-28	
29-35	
36-40	

Biological

SHEET 3

Based on the identified macroinvertebrate listed in sheet 3, **choose the two with the best quality** to determine the biological quality according to this matrix:

macroinvertebrate 1

macroinvertebrate 2

Diagram illustrating the relationship between Hydromorphological and Biological quality, showing a 5x5 matrix of colored circles representing different quality levels.

The matrix is structured as follows:

- Columns (Biological Quality):** Blue, Green, Yellow, Orange, Red.
- Rows (Hydromorphological Quality):** Blue, Green, Yellow, Orange, Red.

The matrix shows that the relationship between Hydromorphological and Biological quality is generally positive, with the highest quality levels (Blue) showing the strongest positive correlation.

	Very good	Good	Moderate	Bad	Poor
QUALITY ECOLOGICAL	Accomplish the Water Framework Directive		DO NOT accomplish Water Framework Directive		