

# MACROINVERTEBRATE COUNT

Stream \_\_\_\_\_ Site \_\_\_\_\_ County \_\_\_\_\_  
 Description \_\_\_\_\_  
 Total Rainfall during last week(in.) \_\_\_\_\_  
 Date \_\_\_\_/\_\_\_\_/\_\_\_\_ Trained Data Submitter \_\_\_\_\_  
 Trained Participants \_\_\_\_\_

Select three areas within a riffle/run stream segment that are somewhat different in terms of flow velocity, substrate size, presence or absence of aquatic plants, leaf packs, tree rootwads, pieces of wood, etc. Sample a 3' by 3' area immediately upstream of the net. FOR EACH NET SET, make a count of the total number of individuals of each type of aquatic life and record this number in the appropriate box. Then add up the NUMBER OF DIFFERENT TYPES OF ORGANISMS in each category and multiply by the indicated number to obtain the index value for that category. Summing the index valued for the three categories gives the water quality rating.

Set # 1. Time spent picking \_\_\_\_\_ X number of people picking \_\_\_\_\_ = \_\_\_\_\_ minutes

SENSITIVE	SOMEWHAT-SENSITIVE	TOLERANT
<input type="checkbox"/> caddisfly larvae	<input type="checkbox"/> other beetle larvae	<input type="checkbox"/> damselfly nymphs
<input type="checkbox"/> hellgrammites	<input type="checkbox"/> clams	<input type="checkbox"/> aquatic worms
<input type="checkbox"/> mayfly nymphs	<input type="checkbox"/> crane fly larvae	<input type="checkbox"/> blackfly larvae
<input type="checkbox"/> gilled snails	<input type="checkbox"/> crayfish	<input type="checkbox"/> leeches
<input type="checkbox"/> riffle beetle	<input type="checkbox"/> dragonfly nymphs	<input type="checkbox"/> midge larvae
<input type="checkbox"/> stonefly nymphs	<input type="checkbox"/> scuds	<input type="checkbox"/> pouch snails
<input type="checkbox"/> water penny larvae	<input type="checkbox"/> sowbugs	<input type="checkbox"/> other snails
	<input type="checkbox"/> fishfly larvae	
	<input type="checkbox"/> alderfly larvae	
	<input type="checkbox"/> watersnipe fly	

Set # 2. Time spent picking \_\_\_\_\_ X number of people picking \_\_\_\_\_ = \_\_\_\_\_ minutes

SENSITIVE	SOMEWHAT-SENSITIVE	TOLERANT
<input type="checkbox"/> caddisfly larvae	<input type="checkbox"/> other beetle larvae	<input type="checkbox"/> aquatic worms
<input type="checkbox"/> hellgrammites	<input type="checkbox"/> clams	<input type="checkbox"/> blackfly larvae
<input type="checkbox"/> mayfly nymphs	<input type="checkbox"/> crane fly larvae	<input type="checkbox"/> leeches
<input type="checkbox"/> gilled snails	<input type="checkbox"/> crayfish	<input type="checkbox"/> midge larvae
<input type="checkbox"/> riffle beetle	<input type="checkbox"/> dragonfly nymphs	<input type="checkbox"/> pouch snails
<input type="checkbox"/> stonefly nymphs	<input type="checkbox"/> scuds	<input type="checkbox"/> other snails
<input type="checkbox"/> water penny larvae	<input type="checkbox"/> sowbugs	
	<input type="checkbox"/> fishfly larvae	
	<input type="checkbox"/> alderfly larvae	
	<input type="checkbox"/> watersnipe fly	

Set # 3. Time spent picking \_\_\_\_\_ X number of people picking \_\_\_\_\_ = \_\_\_\_\_ minutes

SENSITIVE	SOMEWHAT-SENSITIVE	TOLERANT
<input type="checkbox"/> caddisfly larvae	<input type="checkbox"/> other beetle larvae	<input type="checkbox"/> aquatic worms
<input type="checkbox"/> hellgrammites	<input type="checkbox"/> clams	<input type="checkbox"/> blackfly larvae
<input type="checkbox"/> mayfly nymphs	<input type="checkbox"/> crane fly larvae	<input type="checkbox"/> leeches
<input type="checkbox"/> gilled snails	<input type="checkbox"/> crayfish	<input type="checkbox"/> midge larvae
<input type="checkbox"/> riffle beetle	<input type="checkbox"/> dragonfly nymphs	<input type="checkbox"/> pouch snails
<input type="checkbox"/> stonefly nymphs	<input type="checkbox"/> scuds	<input type="checkbox"/> other snails
<input type="checkbox"/> water penny larvae	<input type="checkbox"/> sowbugs	
	<input type="checkbox"/> fishfly larvae	
	<input type="checkbox"/> alderfly larvae	
	<input type="checkbox"/> watersnipe fly	

<input type="checkbox"/> times 3 = ____	<input type="checkbox"/> times 2 = ____	<input type="checkbox"/> times 1 = ____
# of Different <u>types</u> of organisms in sensitive category x 3	# of Different <u>types</u> of organisms in somewhat-sensitive category x 2	# of Different <u>types</u> of organisms in tolerant category x 1

**WATER QUALITY RATING** (Water Quality Rating: >23 Excellent, 18-23 Good, 12-17 Fair, <12 Poor)

PLEASE KEEP A COPY AND SEND ORIGINAL DATA TO: Planning Section  
 Water Pollution Control Program  
 Department of Natural Resources  
 P O Box 176  
 Jefferson City, MO 65102-0176

