FRESHWATER BIOINDICATORS ANSWER KEY



Many different rivers lead to Long Island Sound. Why is the river important to animals and humans?

nutrients to different areas of the river and Long Island Sound Rivers provide drinking water for people, a habitat for animals, breeding ground for Long Island Sound animals, and carry

and found the following insects during each survey. A group of scientists monitoring a river decided to look for insects because they are indicators of pollution. If an insect is considered sensitive, it means the insect cannot exist in polluted areas. The scientists studied the river for 2 years

Year 1: Body Builder Mayfly, Common Stonefly, Dragonfly, Brush Legged Mayfly, Water Penny Beetle

Year 2: Scud, Black Fly, Aquatic Sow Bug, Non-Biting Midge, Snail

| Snail | Damselfly | Saddlecase Maker Caddisfly |
|------------------------|----------------------|----------------------------|
| Black Fly | Dobsonfly | Common Stonefly |
| Non-Biting Midge | Water Penny Beetle | Brush Legged Mayfly |
| Aquatic Sow Bug | Dragonfly | Free-Living Caddisfly |
| Scud | Fingernet Caddisfly | Body-Builder Mayfly |
| <u>Least sensitive</u> | Moderately sensitive | Most sensitive |

year 2? What do the survey results tell us about the health of the river from year 1 to year 2? What should they do after

Use the survey results and the insect sensitivity guide above.

that are moderately sensitive, so it could mean that a source of pollution is possibly entering the river In year 1, the insects that were found are mostly in the sensitive category which means the river is healthy. There are 2 species

out what could be polluting the water. In year 2, all the insects are least sensitive to pollution, which means the scientists should do further testing on the water to figure