

CADDIS FLIES (TRICHOPTERA) OF KABARDINO-BALKARIA (CENTRAL CAUCASUS) AS INDICATORS OF THE QUALITY OF RIVER WATERS

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The study is devoted to the study of individual indexes saprobity larvae of caddisflies (Trichoptera) from water bodies of Kabardino-Balkaria (Central Caucasus). The results of the work are based on years of in-situ observations, qualitative and quantitative samples of hydrobionts from the rivers and streams of the CBD. Sampling was performed with the help of water nets (qualitative test) and bentometra Sadovsky (quantitative samples). It is established that the fauna of caddisflies Kabardino-Balkaria are endemics and subendemics Caucasus. This circumstance did not allow to use them for biological assessment of water quality in rivers and streams. Our studies have clarified the indicator weight of about 50 species of caddisflies. It was found that the majority of species of caddisflies dwells in spring the rivers and streams, and only a small part of it inhabits rivers with glacier power. All types with very few exceptions belong to the group of xenosaprobic and oligosaprobic. The work gives the individual the saprobity index for most species of caddisflies. The results of investigations are used for creation of the system of surface water quality biomonitoring in the North Caucasus.

ФАКТОРЫ ОКРУЖАЮЩЕЙ СРЕДЫ В ФОРМИРОВАНИИ ЗДОРОВЬЯ НАСЕЛЕНИЯ ИВАНОВСКОЙ ОБЛАСТИ (АТМОСФЕРНЫЙ ВОЗДУХ)

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Данная работа посвящена оценке влияния факторов окружающей среды на уровень заболеваемости населения Ивановской области. Показано, что изменение факторов окружающей среды влечет за собой изменение физического и психического здоровья населения. Проведена оценка качества атмосферного воздуха. Рассчитан индекс загрязнения воздуха (ИЗВ). Дана характеристика загрязняющих веществ и выявлены наиболее приоритетные для региона. На основе анализа и оценки медико-демографических показателей, заболеваемости (общей и первичной) различных групп населения была показана зависимость здоровья населения от загрязнения атмосферного воздуха для разных возрастных категорий населения. Доказано, что областной центр г. Иваново имеет «высокую степень загрязнения» атмосферного воздуха. С использованием географической информационной системы (ГИС) созданы карты (в разрезе административных районов) по индексу загрязнения атмосферного воздуха и заболеваемости населения за длительный период времени.

ENVIRONMENT FACTORS IN FORMATION OF HEALTH OF THE POPULATION OF THE IVANOV REGION (ATMOSPHERIC AIR)

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This work is devoted to an assessment of influence of environment factors on an incidence of the population of the Ivanovo region. It is shown that change of environment factors involves change of physical and mental health of the population. The assessment of quality of atmospheric air is carried out. The air pollution index (API) is calculated. The characteristic of polluting substances is given and the most priority are revealed for the region. On the basis of the analysis and an assessment of medico-demographic indicators, to incidence (the general and primary) various groups of the population showed dependence of health of the population on pollution of atmospheric air for different age categories of the population. It is proved that the regional center Ivanovo has «high extent of pollution» atmospheric air. With use of the geographical information system (GIS) cards (in a section of administrative regions) on an index of pollution of atmospheric air and incidence of the population for a long period of time are created.