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## ***ПЕРШИЙ КРОК У НАУКУ***

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## **WATER POLLUTION IN UKRAINE**

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An industrial country, Ukraine some of the most polluted water resource in Eastern Europe.

The problem of water pollution is associated with increased consumption of water by industry, agriculture and public utilities, low government priority and defilement of water sources.

In Ukrainian inland water resources, the maximum and average concentration of some pollutants is very high, it reaches 61.52 percent, and the number of accidents involving heavy pollution (one waste water discharge, which can cause a health hazard) is increasing. Meanwhile, the change of the centrally planned economy in the free market is associated with a severe economic downturn and a significant drop in industry. However, a complex analysis of problems was not conducted, which are interconnected with water pollution and socioeconomic situation in the period 1991-2003. It is unlikely that much effort can be made at the state level in the near future to improve water quality. Something enhancement can be reached through changes in the system of pollution control and public perception, as well as obtaining appropriate expertise and investments from abroad.

The main measures to reduce the degree of water pollution are:

- sewage treatment;
- use of sewage for irrigation;
- introduction of closed water supply technologies;
- reduction of volumes of pollutant discharge in the reservoir improvement of technological processes;
- the standardization of water quality, that is, the development of criteria for its suitability for different types of water use.

All natural reservoirs are capable of self-cleaning. However, the ability of the reservoir to self-purification has its limits. Today there is such a huge amount of contaminated sewage that this process can not occur.

Therefore, the restoration of water resources will only take place if there is an effective organizational and legal system, the formation of protected areas and improvement of methods for monitoring and evaluation of the status of water objects, the introduction of paid water consumption, taking into account the composition and properties of waste water.

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