PROTECTION OF WATER QUALITY
IN THE LAKE SITUATED ON THE AGRICULTURAL AREA

Abstract

According to the Nitrate Directive it is necessary to establish a protective belt (ecotones) around lakes. Inside these belts, it is forbidden to use fertilizers for agricultural purposes. It is believed that it is the most important measure to protect water quality in the lake. The analysis were conducted to estimate the sources of nitrogen entering the waters of the lake. Some analysis were conducted to estimate the sources of nitrogen entering waters of the lake. It was proved that the biggest load (more than 80%) of contamination is entering the lake with water flowing in streams and ditches. Only 10% of the chemicals are entering the lake with the groundwater filtrating to the lake. It is very important to use a proper methods of agriculture with proper methods of fertilization in the whole area of river basin flowing to the lakes.

Key words: agriculture, contamination, environment, lakes, nitrogen, water quality