

## *Annotation*

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***The state and prospects of qualitative water supply of population and agricultural animals in private households***

*Exhaustion of natural fresh water resources and a significant decrease in its quality on the background of global environmental problems indicates the need for a regular system of monitoring the water quality.*

*Therefore, the research purpose was to analyze the quantity and quality of drinking water used by residents and their domestic animals of Ustimovka village, Vasilkovka district in Kiev region.*

*Accordingly, the research objectives were solved by the following tasks: demographic pattern, quantitative and qualitative composition of domestic animals, amount of consumed water and the state of individual water supply systems, as well as analyzing data of Vasilkovka SES on water quality. The main problems of water supply were summarized on the basis of the carried out work.*

*Methods of questioning, recording and data submitted by Vasilkovka SES were used in the research.*

*As a result of the research, a decrease in the number of population for the experimental period was established – from 1985 people in 2014 to 1887 people in 2016. In subsidiary farms the greatest number of chickens is 4321. Most wells do not meet sanitary standards. The greatest amount of used water is spent on personal hygiene (45 liters for 1 person and 135 liters for a family). For animal feeding and giving water is 66 liters. Data on water quality indicate that in most cases indicators exceed MAK, especially in terms of transparency (by 10 degrees) and total hardness (by 11.12-14.12 mg/dm<sup>3</sup>). The main problems of quality water supply are as follows: water disinfection by chlorination, most wells do not have an airtight cover, minimum analysis of water quality, lack of sanitary distances and so on.*

*The findings are mainly presented in the research results.*

**Keywords:** *water quality, demographic pattern, qualitative and quantitative composition of domestic animals, amount of consumed drinking water, condition of wells.*