

Guidelines title [In English]

Контроль численности кровососущих комаров р. *Culex*, места выплода которых находятся в населенных пунктах
[Control of the abundance of blood-sucking mosquitoes of the genus *Culex*, of which the breeding sites are located in settlements]

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Summary

The guideline provides general information on some *Culex* mosquito species, their biology, breeding habitats and epidemiological importance. A series of preventive sanitary- epidemiological measures are described to prevent *Culex* mosquitoes mass breeding in settlements, i.e. landscaping, preventing basement flooding, state sanitary inspection of residential and industrial buildings, irrigation and drainage systems, rice fields, sewage facilities, etc. In accordance with expert opinions submitted by federal Public Health institutions "Center for Hygiene and Epidemiology", the territorial departments of the Federal Service for the Oversight of Consumer Protection and Welfare organise mosquito control activities. A list of insecticides registered in the Russian Federation, instructions for use of larvicides and adulticides and the measures of public and personal safety during pest control activities are given in the guideline.

Objectives:

- To provide the necessary information (biology, ecology, epidemiological importance) about *Culex* species common in Russia.
- To specify preventive sanitary and epidemiological measures for preventing *Culex* mosquitoes mass breeding in the settlements.
- To describe the mosquito (adults, larvae) standard collecting techniques for estimating the relative mosquito number.
- To provide the necessary information about insecticides registered in the Russian Federation and their application methods.

Targeted mosquito species: *Culex modestus*, *Cx. pipiens* s.l., *Cx. pusillus*, *Cx. territans*, *Cx. theileri*, *Cx. torrentium*, *Cx. tritaeniorhynchus*, *Cx. vagans*.

Methods:

- Surveillance methods: Larval sampling every 7-10 days (April-September) using standard net (diameter 20 cm, depth 25 cm); mosquito adult collection from vegetation using entomological net, human landing collection per 20 min by aspirator or entomological net; manual collection (or counting per 1m²) of resting mosquitoes inside the animal shelters.
- Risk level ranking: not specified.
- Period of activation: not specified.
- Other: -

Audience: Designed for specialists of the Federal Service for the Oversight of Consumer Protection and Welfare, legal entities, entrepreneurs, institutions, regardless of the legal form, performing the control of *Culex* mosquitoes.

Scale (national/local): National.

Technical annexes:

1. Calculating the number of insecticides needed to make 1 litre of working liquid (emulsion, suspension)
2. Calculating the amount of an industrial product required to process an area of 1 hectare
3. *Culex* Mosquito determination
4. Drawings of larvae - Anophelinae, Culicinae

Specificities: very technical document