

Protection of forests from negative influences

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Annotation: this article will talk about the fact that the infestation of hidden foci of forest pests and diseases is among the most basic activities of the year, carried out through daily Entomological and Phytopathological observation, studies to identify them, as well as in the order of introduction of preventive measures.

Keywords: forest, forest pests, forest trees, mechanical, biological and chemical methods.

According to the order of protection of forests from pests, diseases and other negative influences, the protection of forests from pests, diseases and other negative influences is carried out by permanent forest users, that is, under the guidance of Forest Protection personnel of forest, forest-hunting, specialized farms, National Nature Park and biosphere reserves (except for reserve areas), the following activities are carried out:

1. Implementation of Phytopathological observation measures taking into account foci of forest pests and diseases, areas of negative impact of industrial and municipal pollution and other factors;

2. Determination of the way in which forest pests live, stages of development, feed vegetation, wintering phases according to the result of entomological and Phytopathological observation;

The form of recommendations for the transportation, application and storage of forest trees and other plant protection products and the requirements for the procedure for their approval, as well as for the label of the container, are established by a special authorized body.

In measures to combat forest pests and diseases-the name of the event, deadlines, the name of pests and diseases, measures and mechanisms of their implementation are reflected. Activities are carried out to prevent the import and spread of extremely dangerous pests, weeds, various plant diseases and other materials that can cause serious damage to forest trees and other forest flora, as well as to eliminate them.

Measures to combat forest pests and diseases are carried out by mechanical, biological and chemical methods.

The mechanical method is a method of struggle against pests and diseases of forest trees that are carried out on the ground. In this method, work is carried out to prepare the areas where the forest will be built for transplanting, to combat forest pests and diseases in time for the good development of trees. In autumn and winter, when the Earth is thoroughly plowed and loosened, the development of various harmful insects in the soil is stopped and destroyed.

The rows of the Earth, where seedlings are planted in the forests, are treated with aggregates that are threaded into the tractor, and the rows of seedlings in the rows are loosened and cleaned of weeds. Combat work in the mechanical method can be carried out year-round or seasonally.

The methods of mechanical struggle of forest trees against pests and diseases carried out on the ground are mainly used in areas where there are few pests or are just spreading. Pests of trees and shrubs aged three to four years are harvested and destroyed using shaking, that is, the eggs of the pests are harvested and burned using a mechanical method.

In the mechanical way of fighting pests and diseases of forest trees, processing around the trunk of trees, seasonal struggle in areas where the disease has spread sharply, that is, installing belts on the trunk of trees in the middle of the autumn season, and on the eve of the end of the winter season, by the spring season, the belts are safely. In order to easily remove secondary forest pests, branches of a freshly cut tree are collected in special places for them, in these branches-Shabbas they settle. With the results of Phytopathological observation, the affected bundles are burned. In the measures of mechanical control of forest trees against pests and diseases, it is also carried out by reducing or destroying them through modern technological processes - modern technical means. The biological method is an event of particular importance, which is carried out on the ground against pests, diseases of forest trees.

The fight against pests of forest trees in a biological way is carried out by fighting biological substances, artificially created creatures, genetically grown plants, other organisms or by means of crop rotation, exactly similar to natural organisms used in the fight against plant pests, diseases and weeds. This method mainly uses entomophages to combat pests. Forest pests are used at the time of laying eggs, that is, in may - June, trichogram, when larvae appear, goldfish, poachers against rodent butterfly worms, pheromon handrails, Prestige against leaf rodent butterfly worms, and insectivorous birds.

The chemical method is carried out on the basis of the fight against pests, diseases of forest trees, artificially created chemicals, pesticides.

Against pests and diseases of forest trees are considered methods that are carried out both on the ground and from the air. This uses chemical methods of struggle against body and lice pests, leaf lice, mites, leaf rodents, woodpeckers, bark beetles, gold-beetles during the growing season, without affecting the environment during the growing season, until the first leaves are formed after the buds are written off.

The chemical agents used in chemical treatment of forest trees against pests and diseases are determined in accordance with the "list of permitted pesticides and agrochemicals for use in agriculture of the Republic of Uzbekistan" approved by the state commission of the Republic of Uzbekistan for the means of Chemistry and plant protection.

In order to prevent the negative impact on man and nature in the process of using and applying chemicals, it is required to follow the procedure for using chemical preparations.

The role of insects in forestry:

* Karl Linney, who highly valued necrophagous insects for their sanitary role, said of them: "three flies destroy the dead horse's body faster than one lion."

• This is what was revealed when they studied the decomposition of the body of animals that died in the forests: as long as the decomposition without insects lasts for months, and with the participation of insects, 90% of the body disappears in 6 days

Plant lice, aphids are the youngest genus of Equinox chartome insects. About a thousand species are known. Body TR. 0.5-6.0 mm, ovoid or oval in shape, color from light green to loamy. The head is sedentary, the stinging oral apparatus is in the form of a Khartoum, consisting of joints that start from the back of the head. The whiskers are 3-6 articulated. Often without wings. Lives as a ball. The Winged ones migrate from one plant to another. Plant lice development cycle: usually

hibernates in two or perennial plants, in the case of eggs; in the spring, a wingless female — founder is formed from the egg and gives birth to 50-70 larvae, which will soon develop and mature; adult individuals of the second and Next Next Next Generation are also wingless (parthenogenetic, live-born and reproduce, giving birth to a wingless daughter offspring). The development cycle is completed by laying fertilized eggs (mas, legumes and beets).6.). The period of development of plant lice is 3-20 days, depending on the air temperature. The season will give 2026 generation. The female lives up to 14 days in the summer month. Winged females end up with 1-2 larvae per day, and wingless ones-5-10 larvae. Little precipitation creates good conditions for the development of aphids; heavy rains, liked by large-drop, chronically, wash and die off open-living aphids. Plant lice suck the aphids on bargnovda. As a result, the carbohydrate reserve at the STEM and root of the plant is sharply reduced. This leads to the fact that the leaves twist, the branches grow singly, the tissues get sick and swell, spark, etc.form all kinds of growths. The yield of damaged plants decreases by 15-20%. In addition, plant lice spread dangerous diseases along with the absorption of diseased plant sap.

In plant lice, many species of small plateaus are parasitized, including aphelinos, as well as buzzing flies, the larvae of nettles, many coxinellids.

Measures of struggle: primary boss: do not plant the secondary one close to each other; grow varieties resistant to insect damage; natural insect kushands use entomophages (mas, oltinkoz), spray plants with chemical agents-phosphororganic preparations.

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