TECHNOLOGY OF WAVE EFFECTS ON PLANTS

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RECOVERY SOIL

The technology allows to restore physical and chemical parameters of the soil, its natural microbiological background, to make disinfection from pathogenic microflora. The use of technology makes it possible to effectively clean and restore areas that have been contaminated by chemical fertilizers with pesticides or substances with similar properties. Currently, it is a finished product for mass use.

The technology is based on a universal method of process control using low-frequency electromagnetic fields of low intensity. The physical properties of low-frequency electromagnetic fields allow the treatment of any surface in a short period of time with a minimum of energy. This is due to the economic efficiency of the technology.

An important advantage of the technology is that the means to achieve its high efficiency is not the introduction of artificial, unusual elements and features in the soil and plant organs, but, on the contrary, the normalization of these processes and the elimination of the consequences of violent influence on them.


S.O.S

Due to electromagnetic treatment in contaminated areas, the natural background of useful soil microflora is restored, the vital activity of soil-forming microorganisms and animals is activated, the structure, agrochemical and agrophysical properties of soils are normalized. Toxic residues of previously used chemicals that inhibit the development of useful biomass are removed from the soil.

The content of humus in the soil increases. There comes a dynamic balance of intertwining processes of humification and mineralization of organic substances, both in the soil and systematically entering it. In light soils increases moisture capacity, water-holding capacity.

Consequently, it reduces the leaching of nutrients from the arable layer, improves plant nutrition, their resistance to drought. In heavy soils improves water and air permeability, increases the amount of available moisture. The soil becomes looser with a fine-crumbly structure.

The resistance of cultivated plants to adverse external factors increases on the soils treated with the proposed technology. That is, the soil fertility increases.

PLANT GROWING

The existing and currently used system of agriculture includes intensive soil treatment with chemicals, which leads to an increase in the dependence of the efficiency of growing crops on the constant increase in the volume of fertilizers and chemical means of protection from diseases, pests and weeds, the gradual accumulation in the soil of substances harmful to humans and plants and the high growing cost of growing agricultural products.

The proposed integrated technology compensates for the shortcomings of existing farming systems by incorporating elements of biologization, ecologizations, adaptability and resource conservation into the technology.

Equipment is effectively used in the cultivation of crops-winter wheat, oats, barley, rice, rye, sugar beet, tomatoes and potatoes, and so on. At all stages of vegetation is carried out remote provision of nutrition, protection from all types of diseases and pests (aphids, thrips, flea, bread and Colorado potato beetle, bug turtle, etc.).

Treated plants develop faster, are not susceptible to diseases, Mature before control (untreated). According to production tests, the treated seeds germinate 2-3 days earlier, and the harvest Matures faster for 5 days or more.

Bioelectricity stimulation activates a group of enzymes responsible for the initial period of plant development and provides an earlier transition to autotrophic nutrition, which further allows to obtain a higher yield of up to 20 %.

The use of toxic chemicals is excluded, the costs of applying mineral fertilizers per unit of production are repeatedly reduced, the dependence of the crop on weather conditions is reduced.

The purpose of the impact is the accelerated development of the plant of the main culture, the death of pathogens of plants and pests, death or oppression of weeds, changing any properties of the plant (without genetic changes), excretion and/or decomposition of toxins and any other result.

Multiple complex tillage significantly reduces the content, and subsequently eliminates the residual harmful to human chemicals. The result is environmentally friendly products with products high taste qualities and low cost.

Developed and fully ready to use cost-effective integrated technology for processing, drying, storage and sorting of grain.

The technology of part-time work and storage allows:

1. Toreduce the content of toxins (consequences of defeat by Fusarium, rust, etc.) in the processed products.
2. 2. Toproduce disinfection of products.
3. 3. Toimprove the quality indicators of products, namely:
4. - to increase the gluten to 6 units;
5. - reduce IDK (gluten deformation) to 90-75 units;
6. - increase protein content.
7. The effect is achieved due to the complex remote impact on the grain electromagnetic field.

HORTICULTURAL CROPS/FRUIT CROPS

When growing orchards and vineyards , WEP processing is carried out, which dramatically accelerates the quality of the initial growth and improvement of the survival of vaccinations and cuttings before and after vaccination or cuttings in nurseries.

Peach, apricot, plum, cherry, cherry and others.

A complex treatment is carried out in the spring before Bud break combined with preparations for pest control (5-10% of the usual amount), immediately after flowering similar treatment.

The next treatment is carried out after harvesting in order to increase the yield for the next year (an increased number of flower buds are formed) and to protect plants from diseases. Yields are increased by at least 30%.

The technology allows to prevent the defeat of plants with aphids and powdery mildew.

Apple, pear.

A complex treatment is carried out in the spring before Bud break combined with preparations for pest control (5-10% of the usual amount), immediately after flowering similar treatment.

The next same treatment is carried out 15-20 days after flowering, in early summer from the moth.

After harvesting, processing is carried out to increase the yield for the next year (an increased number of flowering buds are formed) and to protect plants from diseases.

Yield increases by at least 30%, sugar content increases by 0.5 units, extended shelf life.

The technology allows to eliminate the defeat of powdery mildew, fruit moth, aphids, scab.

Raspberries, blackberries, strawberries, currants, gooseberries

A complex treatment is carried out in the spring before Bud break, immediately after flowering treatment is carried out, combined with the use of 5-10% of the usually introduced preparation for pest control.

The next same treatment is done 15-20 days after flowering.

After harvesting, the treatment is carried out to increase the yield for the next year (an increased number of flower buds is formed) and to protect plants from diseases.

Yields increased by at least 25%.


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VITICULTURE AND WINEMAKING

The technology does not violate the plan of agrotechnical measures commonly used by the enterprise and does not require the use of additional agricultural machinery, equipment and labor costs.

Its use increases the profitability of production due to the following factors:

- reduction in the first year - two, and in the next - five or more times the cost of fertilizer;
- reduction of at least 90% of the cost of the purchase of funds for disease control;
- 80% reduction in costs of pest control;
- halving the cost means of controlling weeds;- reduction of energy and labor costs in the absence of the need for agrotechnical measures for the introduction of fertilizers and means of combating diseases and pests;
- significant reduction of losses on bushes before harvesting and during long-term storage.

Application of technology, taking into account the above reduction in the volume of fertilizers and chemicals. preparations, increases the yield of vineyards by 30-50 % depending on the variety and specific conditions of a particular farm.

At the same time there are no diseases of plants. Ensured the safety of the bunches before harvest.

The technology makes it possible to extend the shelf life without losing the quality of wine grapes.

Treatment of vineyards before harvesting makes it possible to improve all quality indicators and raise the sugar content of not less than one.

The complex of works allows to obtain high-quality vines, to preserve the root system, vines and kidneys in the process of overwintering and provide an annual high yield.

The use of technology contributes to the effective restoration of soil fertility, containment of harmful microorganisms. When processing, disinfection of the arable soil layer is carried out. When using the technology for several seasons, the content of nitrates, nitrites and other substances harmful to humans and plants in the soil decreases.

PROCESSING TECHNOLOGY OF RAW MATERIALS AND WINE MATERIAL

The method makes it possible to activate or suppress the life activity of microbiological objects, as well as to influence the flow of chemical processes in production within certain limits, therefore, the qualitative and quantitative indicators of the products. In addition to high economic efficiency, the technology has the following advantages:

There is no need for additional investments in changing the structure and processes in the production, the use of additional equipment, as the introduction of technology is carried out on the existing production base.

The increase in production efficiency is achieved by non-aggregate processing of raw materials and products at various stages.

Processing is carried out remotely parallel connection to the existing process without stopping it. Applying our technology, there is a fast cleaning of soils of vineyards and other cultures from earlier brought chemicals and pesticides, in a year it is possible to receive grapes and other cultures with a sign BIO a Product.

(Bio-wine) Product grown without the use of pesticides and pesticides.

- The power consumed by the equipment does not exceed 1.00 kW, which means that the use of the proposed technology does not lead to a significant increase in energy consumption.
- The equipment is mobile and small, practically does not occupy production areas, the period of its installation and debugging in production for demonstration works is no more than 3 days, for permanent use-no more than 7 days.
- The use of technology does not worsen the environmental situation at the enterprise, which is confirmed by the relevant hygienic conclusions.
- The technology allows, if necessary, to reduce the fermentation time of the wine material, to carry out its disinfection from yeast and acid-forming microflora, clarification without the use of additional drugs, the extension of the shelf life of wine materials with the preservation and improvement of quality in containers and glass containers.
- It is possible at the request of the customer to accelerate the maturation or aging of wine materials.
- When stored in the case of increased acidity treatment leads to a decrease in acidity and restore quality without the use of heat and cold. You can also give the wine specific taste and aroma.

CONCLUSION

Our technologies influence plants and lead to activation of their vital forces. The use of technology allows for the first year, to achieve real yield growth with a multiple reduction in the consumption of fertilizers and herbicides. True fertility returns, there is a build-up of the humus layer.

The method makes it possible to activate or suppress the life activity of microbiological objects, to stop the development of pathogenic microflora, for example, for the purpose of disinfection of industrial premises, extension of the shelf life of agricultural products, water purification, disinfection of waste, elimination of toxicity of feed, control of diseases and pests of crops, etc.

The technology is environmentally safe for humans, tested in Russia and abroad.

The proposed technologies are the result of many years of work of a group of specialists, whose goal was to quickly solve the problem of production of environmentally friendly products while reducing its cost, preventing a threatening environmental disaster, the rapid improvement of the human environment by cleaning water and air, restoring the fertility of the soil until the eco-soil.


Drones

ADDITIONAL INFORMATION

We have obtained positive experimental results on transfer to water the information fields used for irrigation, obtained with the help of our know- how, with chemical and biological fertilizers.

Now we are testing the technology with some pesticides.

This technology is environmentally friendly and cost-effective.

We are trying to make our planet more environmentally friendly.