

Utilization of Compost for Healthy Ecosystem

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For sustainable development of Environment, a very important issue for Georgia is the sorting of household waste. One of the key environmental activities, along with ecological sanitation and conservation of water, is composting. Compost, which is created as a result of sorting, processing and recycling of organic substances, has been successfully used in agriculture to maintain and improve of

In nature, occur regularly depleted of soils with humus. Compost contains all necessary macro- and microelements. Any organic matter eventually turns into compost, but independent process of decomposition in nature requires a lot of time (centuries). Compost also creates a controlled environment and balances quickly processed into a powerful, nutrient-rich mass which is the perfect organic fertilizer. The use of compost leads to soil humus enrichment. It supplies plant with nutrients and improves the soil structure. Compost does not contain chemicals; therefore it is a cheaper and healthier alternative against expensive fertilizer.

These questions relate to the project, which is realized with the financial support of Shota Rustaveli National Science Foundation. The main goal of the project is improvement of ecological consciousness of population. In particular, in experimental pilot region offer to rural population sorting of household waste and recycling in compost with their direct participation in this process.

The select object is a sparsely populated small village Argokhi (Akhmeta district), where each family will be provided with the special compost boxes. In these capacities they will gather all easily accessible organic materials and natural enrichments. On the base of proposed method, creating the appropriate conditions, for a short time they will receive the best compost for the organic fertilizer. As a result it will be real preconditions for production of environmentally pure products. In Argokhi is functioning ecological farm, founded with the support of the Swiss Government.

That kind of approach will encourage rural residents to sort waste that is the best way to resolve problems related to environmental consciousness. In fact, we will have a couple benefit, and what's more: formation a culture of household waste sorting in rural population; decrease the amount of waste in nature and, accordingly, diminish of waste disposal costs; elaboration of ability to produce and use the cheap bio-fertilizer – compost from the household waste for the improvement of soil fertility, that is the best alternative as a counterbalance to toxic chemicals; creation of preconditions for production of environmentally clean products; sensitization of the population on this issue; informing the relevant statements (Ministries of environment protection, agriculture, education, economy; regional and non-governmental organizations) on the obtained results; creation of prerequisites for the implementation of similar projects in other regions of the country, etc.