Home Ecosystem and its Management in the Context of Global Warming

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ABSTRACT

Due to global warming, urbanization of land and increased population, we are facing a lot of problems in our day to day life. Increase in temperature of the atmosphere, shortage of drinking water, scarcity of crops, vegetables and fruits can be mentioned. Here a model for home ecosystem and its management is established in the context of global warming based on personal experience. We can make a home garden of any size where we can plant and conserve all the endemic, endangered medicinal plants of traditional importance for use in further scientific and industrial research. Here a model for water recycling at the individual level is also given. It includes rain water harvesting and recycling of water used for domestic purpose. It also includes use of organic household waste as manure for kitchen garden.

Key words: Harvesting, kitchen garden, organic manure, harvesting

INTRODUCTION

Due to universal warm, urbanization of earth and enlarged inhabitants, we are in front of a bundle of troubles in our day to day existence. Boost in hotness of the environment, scarcity of ingestion water, shortage crops, vegetables and fruits can be mentioned. It in addition includes exercise of natural family circle throw away as compost for kitchen backyard.

MATERIAL AND METHOD

- Construction of our house at the maximum level to harvest the monsoon rain.
- Harvest waste water from our kitchen.
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- Conserve ethnic medicinal plants in our home garden.
- Collect organic wastes from our kitchen in a bucket and dump on a small area and to cover with soil to form compost.

RESULTS AND DISCUSSION

As a result of the present experiment, we can improve our home ecosystem to a great extent. We can decrease the number of water tanks purchased per year. By plantation of fruit plants on the side of the approach road of our homes, we can purify the air surrounding our houses; obtain fruits, shade, soothing effect during the summer and also spiritual value.

By the year 2050, the world’s population will reach nine billion. The demand on the world’s resources - energy, first and foremost - will be severe...
Scientists predict that we'll "need to produce as much food in the next 40 years as we have in the last 8,000." Almost all of the population growth will occur in poor nations. As populations swell, resource depletion will be exacerbated (environment-clean-generations.blogspot.com/2011). A growing, more affluent population competing for ever scarcer resources could make for an "unrecognizable" world by 2050, researchers warned at a major US science conference Sunday (news.discovery.com/earth/global-warming/earth-u).

Global temperatures could rise 5 degrees by 2050 (content.usatoday.com/communities/sciencefair/po,, By Doyle Rice, USA TODAY Updated 2012-03-25 8:03 PM).

In 2013 in Manipur hardly we could get drinking water. All the water reservoirs in local and private water reservoirs were being sealed by the locals for their use, and we there was no water in the pipeline for the people in the city. The water available in channels by the side of paddy fields that was also dirty was being sold by the water tankers (Personal experience). The situation will become more serious every year. So it is a great time for us to take up action plans to harvest and conserve the monsoon rain as far as possible in the same notion as we are collecting paddy for the whole year. We cannot blame only the government for supply of water when there is no water in the river and lakes. We have to die together.

In my home ecosystem, the water collected from the monsoon rain into my pond decreases the number of water thanks purchased per year to almost half. As the pond size is small I could not collect large amount of water.

In view of all of these global predictions and personal experiences, we must act locally at our best level to conserve the nature. We can start it from our home ecosystem. We can use the waste water from the kitchen for watering the home garden or kitchen garden. By dumping the organic wastes from our kitchen and covering with soil and watering, we can make compost. The compost thus prepared can be used for our kitchen garden. Even the wastes from our dishes can be put into a bucket and give to the piggeries in our locality. We can give only the plastics to the mobile dustbin. Nowadays even the pieces of papers are collected by some people for recycling in paper factories. In view of all of these, here I am presenting a plan for home ecosystem and its management.

We can also use the water coming by diffusion from the drain after proper treatment for watering the plants. We, the human beings are destroying our home, the mother earth that one or the other day we will kill ourselves by destroying our food plants.
CONCLUSION

It can be concluded that from now onwards in our new constructions of houses we must at least put three tanks under our house, one each for rain water, tap water and septic tank. We must not keep bare the side of our approach roads. It must at least have a row of fruit plants. We must at least make a kitchen garden in a proper place of our home area. We must not give away the organic wastes from our kitchen to the mobile dustbin. It is a source of organic fertilizer for our kitchen garden. Let us save ourselves from vanishing like the dinosaurs vanished from the earth’s surface.

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Personal experience


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