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Misuse of The Land For Industry And Urbanization **Resulting Environmental Problems**

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Abstract

Nature and natural resources should be used and utilized according to their properties, capacity and capability. Otherwise, nature will be destroyed, resources will be deteriorated, pollution, erosion, sedimentation and other problems will be occurred as a result of misuse of nature and natural resources. Especially land selection for industrial plants and urbanization (city planning) are not proper and does not use scientific basis Misuses of land, natural resources and forest area have created for undesired, insoluble and irreversible problems. All these wrong practices and misuses of nature mentioned above caused a miserable life and unhealthy environmental conditions for existing and future generations. Future generations will be in danger for healthy life. In this paper, environmental problems caused by misuse of land and nature will be explained samples

Keywords: Natural resources, Land use, Environment, Urbanization, Industry, Land capability classification

1. INTRODUCTION

Successful urbanization and industrialization depends on suitable land selection and proper land use. Mistakes and wrong decision may cause the environmental deterioration. There are several factors to use and select the land for city planning, for resident area and land factories. If the land is suitable for the demands and requirements, nature and environment is assumed well-planned without harming the future. Otherwise, environmental problems, pollution, erosion and flood may occur as a result of misuse of the land.

Factors affecting on urbanization and settlement are as follows:

- Land selection according to their properties. •
- Infrastructures and completion. It should not be inadequate. •
- Marketing conditions produced well should have opportunity to be exchanged and • sold.
- Production and productivity possibilities. •
- Transportation facilities and opportunities.
- Population growth rate and migration.
- Standard of life, living conditions.
- And other related factors.

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Improper, inadequate and incomplete infrastructures will be one of the main causes for failure of urbanization. Most of the environmental problems occur as a result of wrong urbanization, misuse of the land and inadequate infrastructures. Pollution, noise, unhealthy living conditions are some of the environmental problems because of faulty urbanization and industrializations. Environmental deterioration and wasting of natural resources will threaten the future generation's life, if during the urbanization period, waste water and storm and water collection systems, transportation, water supply and all other requirements of people in that area are not considered and well planned before, so many other problems occur to be solved. Requirements of civilized community and society will not be satisfied as a result of planning. While one problem is solved, other is occurred. Land selection for any usage does not meaning only proper location; it should be suitable for special use also. Land selection should be the according to land capability classification. Anything is used should fit its nature.

2. LAND CLSSIFICATION AND LAND USE

In this earth, land consist of soil, geology and topographic, but also it is affected by climate, hydrology, vegetation and animal populations land has broad meaning. Field, parcel, soil differ from the land. They do not include land but land includes them.

Soil is the main properties of land. Land is defined as: it is a natural resources and a place where all kinds of human activities are done. Land could be without soil but soil could not be without land. Land is occupied in this earth surface.

To use any natural resources its nature and properties should be known. Resources should be use according to its nature otherwise result will be risky. Result and effects of mistake comes after sometimes event long time later. Therefore, "Environment Impact Valuation (CED)" should be done before any Project was planned.

2.1. Classification of Land

There are two general types of land:

A. Land has been used for production of plant, vegetation and animals(productive land).
B. Land has no soil, non productive and it can be used for settling.

Land capability classification:

Productive land is divided into two groups also:

1. Agricultural land which could be cultivated (cultivated land).

2. Land which cannot be cultivated(forest, grassland, range ,chaparral etc.) (non-cultivated land).

<u>1. Cultivated land</u> which is used for agriculture are divided into in to four classes.

Class I land : Level land and productive. Land has no deficiency for production and cultivation .

Class II land: Mild problem for cultivation and production.

Class III land: For production of crop and cultivation has some serious problem. It requires some corrective treatment.

Class IV land: Very serious problem exist to use land for production and cultivation. It could be used to produce fodder and grass.

<u>2. Non cultivated land</u> is also divided in to four classes.

Class V land: These lands should be kept under the vegetative cover. It is suitable for the forest and range area.

Class VI land: It is subject to wind erosion. Land has a steep topography. It is used as a forest and range land. It has some serious deficiency.

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Class VII land: They are step, eroded, hilly land having shallow soil it is fits for poor forestry and grazing with care.

Class VIII land: It cannot be used even for forestry and range. It is used for wildlife, recreation and for water collection area (watershed)

Brief explanation of land capability classification above, gives some suggestion of land used according their properties and capacity. There are some other classification of land for the different objectives and purposes. For instance, land classification could be done for irrigation Project. For the settlement and structures different classification may be done. One of the important considerations are flood zones. According to flood estimation area should be assigned as flood zone and should be very careful about the use of flood zone. Never settlement will be allowed. Fore along period flood may not come but if it is occurred it causes great harm on life and property. Another important matter is earthquake along the fault line. Urbanization and industrialization cannot be accomplished successfully without consideration of earthquake and faults.

Cultivated areas never are used for factory, settlement, industry, and urbanization. There is enough area for these purposes; otherwise productive land will be lost forever. Lost of productive land means lost of future generation's well-being.

3. ENVIRONMENTAL PROBLEMS- INDUSTRIALIZATION AND URBANIZATION

Natural resources should be used according to optimization methods, since natural resources are fixed and constant, but population is increasing. Otherwise wasting and destroying natural resources will cause the erosion, flood and pollution problems. Lost will be more than gain from nature if it is not used property. Otherwise, insoluble problems will occur as a result. Unhealthy and miserable life will be expected with irreversible problems. Like today how world is suffering from environmental deterioration.

Industrialization and urbanization should be done over the non-cultivated land or unproductive land, as a result un productive land will be valued. Besides, forest area and agricultural area should not be used for each other. Unproved land selection for factories and plants create pollution problems of air, water and soil. Other serious problems are acid-rain, unhealthy living condition and global warming. This world is not a heritage from our ancestors. It is a trust from our grand-children. Nature and natural resources are the trust of future generations. We are trustee of the nature.

4. RESULTS AND SUGGESTIONS

Land of Turkey should be used according to their capacity, capability and properties. Land capability classification should be applied wherever and whenever possible. According to demands and requirements land should be classified and used for their nature and properties. In Turkey flood occurs frequently, therefore flood area should be divided as zones. Flood zones should be used properly with care, always scientists and experts in their field should be consulted. Existing laws and regulation should be applied during the actions. Land use maps should be developed and applied. CED (Environmental Impact Evaluation) reports should be followed and applied. Before urbanization and industrialization actions, infrastructures, transportations and other requirements should be well-known, well-planned and well-designed.

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