

ENVIRONMENTAL SCIENCE

SEMP-FINAL REVIEWER

M4L1: FOOD SECURITY AND MALNUTRITION

Food security

= all people at all times have physical, social, and economic access to sufficient, safe, and nutritious food that meets their preferences and dietary needs for an active and healthy life.

Malnutrition

= state of nutrition in which a deficiency or excess of energy, protein, and micronutrients causes measurable adverse effects on the tissue, body form and function, and clinical outcome.

Nutrition

= intake of food that meets the dietary needs of a body.

Overnutrition

= overconsumption of nutrients and food.

Undernutrition

= outcome of insufficient food intake and repeated infectious diseases.

FACTORS THAT CONTRIBUTE TO MALNUTRITION

1. Clinical causes

When it doesn't obtain (acking) a sufficient quantity and/or quality of food and nutrients, a body becomes malnourished fundamentally.

2. Social Causes

These are related to society, status in life, and income of wages that contributes to malnutrition.

3. Environmental causes

These pertain to the state of the environment and what's happening in it that encourages malnutrition.

M4L2: ENVIRONMENTAL IMPACTS OF FOOD PRODUCTION

Food Production is all about preparing food, in which raw materials are converted into ready-made food products for human use either in the home or in the food processing industries.

Ecological Footprint is the measurement of the impact of human activities. It adds up all the productive areas for which a population, a person, or a product competes. And food production is a major contributor to the increase of greenhouse gases in the Earth's atmosphere.

USE OF CHEMICALS FOR AGRICULTURE

After the area has been cleared, it needs to be prepared for massive food production. Heavy applications of artificial fertilizers and herbicides are used to achieve this. The fertilizer boosts the nutrients that are accessible in the soil to increase the crop's production, while the herbicides are meant to stop the growth of undesirable plants that would "take" nutrients from the crop. To meet the demand for agricultural production, unfertile soils might need even higher dosages of fertilizer.

RESOURCE USE AND GREENHOUSE GAS EMISSIONS

Artificial fertilizer and pesticides require a lot of energy to create, making these unsustainable due to their dependence on cheap fossil fuels. The manufacture of these chemicals contributes to climate change, which is a major factor for the long-term sustainability of food production because fossil fuels produce greenhouse gases. Tractors and graders are examples of agricultural machinery used in traditional agriculture that is powered by fossil fuels. The air pollutants that are released by this machinery have an effect on people's health who live far from the location of food production and contribute to climate change.

Methane, a significant greenhouse gas, is released during the production of livestock animals, which is another way that farming contributes to climate change. These animals consume plants, which cause the production of methane gas in their digestive tracts, which is then expelled as gaseous waste. Over the course of their lives, farm animals consume a huge amount of food, which also causes them to produce an immense amount of solid waste. A herd of 100 cattle, for instance, would produce more than 1.25 million kg of waste annually if each cow produced 35 kg of dung every day. However, this quantity of manure is useless and only helps to damage the air, water, and land. Smaller amounts of dung can be used as a natural fertilizer.

AFTER FOOD PRODUCTION

The environmental damage of food production from conventional agriculture is not limited to deforestation and pollutants associated with crop growth. Harvesting the crop represents a significant amount of nutrients, water, and energy being taken from the land. This leaves the land barren, and unfriendly for the growth and development of new organisms and ecosystems. This is especially true of land used for industrial monoculture farms.

- > "Monocultures" refer to areas of land where a single crop is grown, like corn or wheat. They are particularly damaging to soils because plants affect and are affected by soil in different ways. If different types of crops are grown together (crop rotation), they can work in concert to improve soil quality. This does not happen with monocultures, and so the land is left barren and unhealthy after harvesting. Sometimes, with the help of artificial fertilizers, the soil is revitalized and used again for agriculture. If it is not, then the dry dirt will blow away in the wind, further contributing to the growing trend of desertification on our planet.

Transportation of food is another factor that influences the unsustainability of our food production systems. The conventional agriculture model supports small numbers of people tending large monocultures and using industrial equipment to

Environmental Science Review Guide

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