

Crop Environment & Its Components



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What is environment?

- ▶ Surroundings, in which organisms live.
- ▶ Sum total of conditions that surrounds us at a given point of time and space.

Crop environment:

- ▶ Biotic (living) and abiotic (physical or non-living) surroundings of the crop.
- ▶ It influences the growth and development of crops.

Types of environment:

- ▶ Micro environment refers to the immediate local surrounding of the crops.
- ▶ Macro environment refers to all the physical and biotic conditions that surround the crops externally.
- ▶ Physical environment refers to all abiotic factors or conditions like temperature, light, rainfall, soil, minerals etc. It comprises of atmosphere, lithosphere and hydrosphere.
- ▶ Biotic environment includes all biotic factors or living forms like plants, animals, Micro-organisms.

Components of crop environment

- ▶ Crop environment:
 - ▶ Atmosphere
 - ▶ Hydrosphere
 - ▶ Lithosphere
 - ▶ Biosphere

Components of crop environment:

- ▶ Atmosphere represents the air.
- ▶ Hydrosphere denotes water bodies.
- ▶ Lithosphere represents land.
- ▶ Biosphere represents living organisms

Components of crop environment:

- ▶ The biological component indicates the various:
 - ▶ Flora parts which are plants
 - ▶ Fauna that is animals and microbes or micro organisms which are present in our surroundings.
- ▶ The biotic components can again classify as:
 - ▶ Producers
 - ▶ Consumers
 - ▶ Decomposers

Components of crop environment:

- ▶ Abiotic components are classified in two types;
 - ▶ Climatic such as water, air, light, temperature
 - ▶ Edaphic factors like land.

