

SUBJECT - Agricultural Science

YEAR - FIVE

CLASS - S.S. 2

TOPIC - Environmental factors affecting agricultural production.

- The environmental factors affecting agricultural production can be grouped into
- i. climatic factors
 - ii. Edaphic factors
 - iii. Biotic factors,

Agricultural activities such as crop and livestock production are affected by several environmental factors.

- The environmental factors can be grouped into
- i. climatic factors
 - ii. Edaphic factors
 - iii. Biotic factors

CLIMATIC FACTORS AFFECTING AGRICULTURAL PRODUCTION.

Climate is defined as the average weather condition of a place measured over a long period of time.

FACTORS OF CLIMATE - Factors of climate include (i) Rainfall

(ii) Temperature, (iii) relative humidity, (iv) pressure, (v) Light, (vi) radiant energy

TEMPERATURE - This is the degree of hotness and coldness of a place at a point in time.

IMPORTANCE / EFFECT OF RAINFALL

It determines the distribution of crops and animals.

It may cause premature dropping of fruits.

It causes sudden death of livestock.

3. Unfavourable temperature may result in seed dormancy
RAINFALL - This is defined as the amount and distribution of water precipitation within a given time in a given area -

IMPORTANCE / EFFECT OF RAINFALL

It helps to dissolve nutrients in the soil

Excessive rainfall leads to leaching of nutrient and causes erosion.

It is necessary for seed germination

Insufficient rainfall causes crop failure and poor yield.

3

WIND - This is defined as air in motion

IMPORTANCE / EFFECT OF WIND

(i) It aids seed and fruit dispersal

(ii) It can aid spread of diseases

(iii) High wind velocity causes damage to crops

SUNLIGHT / SUNSHINE - This is the amount of and the period the sun's rays are received at a place.

IMPORTANCE / EFFECTS

It affects evapo-transpiration

It affects productivity of crops

5. **RELATIVE HUMIDITY** - This is defined as the amount of moisture in the atmosphere.

IMPORTANCE / EFFECTS OF RELATIVE HUMIDITY

High humidity in poultry houses causes mouldiness of feed and litter

Low humidity causes ^{heat} stress in animals

High humidity affects food intake and productivity of farm animals.

Assignment

Explain drought

State five importance of drought in agricultural production