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# CROP IRRIGATION



# INTRODUCTION

- Irrigation may be defined as the process of supplying water to land by artificial means for the purpose of cultivation.
- Ordinarily water is supplied to land by nature through rain but generally it is not enough for the proper growth of plants.
- As such as the basic objective of irrigation is to supplement the natural supply of water to land so as to obtain the optimum yield from the crop grown on the land

# DEFINATION

- Irrigation may be defined as the process of supplying water by artificial means to agricultural fields for crop production . If water available to the plants from rainfall is not sufficient , it is supplemented by irrigation water.
- In order to achieve this objective , an irrigation system is required to be developed that involves planning ,design ,construction, operation and maintenance of various irrigation works:-
  - SOURCE-River, Reservoirs
  - CONTROL STRUCTURE:- Barrages , Head Regulators
  - DISTRIBUTION SYSTEM:-Irrigation canals

# Crop Irrigation



# TYPES OF IRRIGATION

- **SURFACE IRRIGATION** – Water is applied to the ground by flowing out. Water is supplied as by a small flood.
- **SPRINKLER IRRIGATION** – Water is applied to the ground by spray . Water is applied like rain .
- **DRIP IRRIGATION** - Water is applied to the ground at the plants in small amounts. Water is applied at close to the rate that the soil will absorb it and the plants will use it.

# BENEFITS

- Cultivation of superior crops
- Elimination of mixed cropping
- Economic development
- Hydropower generation
- Increase in crop yield
- Protection from famine

# Achievements



## Science and Technology

- Invented the wheel, the sail, the plow
- First to use bronze.
- Developed system of writing
- Built irrigation systems, buildings, surveyed flooded fields.



# BIBLIOGRAPHY

- [https://www.dpi.nsw.gov.au/ data/assets/pdf file/0018/310365/Irrigation-salinity-causes-and-impacts.pdf](https://www.dpi.nsw.gov.au/data/assets/pdf_file/0018/310365/Irrigation-salinity-causes-and-impacts.pdf)

THANK YOU

