

# CASE

*Curriculum for Agricultural  
Science Education*

**Principles of Agricultural Science – Plant**

# Principles of Agricultural Science – Plant

## Irrigation

Unit 9 – Crop Production and Marketing  
Lesson 9.1 Tools of Plant Production

# Irrigation

Three main types of irrigation:

🌳 Flood

🌳 Furrow (a type of flood irrigation)

🌳 Overhead

🌳 Drip



# Examining the Methods of Irrigation

The selection of the irrigation method will depend upon the type of crop.

 **Flood** – field crops, some greenhouse container crops

 **Overhead** – most common, found in all types of production systems

 **Drip** – used extensively in nursery and landscape

# Goals of Irrigation



The goals of a irrigation are to:

- Provide the appropriate amount of water.
- Prevent overwatering.
- Prevent water waste by targeting root zone.
- Limit loss of water to evaporation.
- Prevent excess water runoff causing erosion and pollution.

# References



Parker, R. (2010). *Plant and soil science: Fundamentals and applications*. Clifton Park, NY: Delmar.