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Orchard in Ring Basins

Rationale

Each plant species has specific water needs. Insufficient irrigation can cause crops to wilt, while excessive irrigation can lead to nutrient runoff and water waste, ultimately lowering yields. Optimal irrigation provides the right amount of water, aiding nutrient absorption and boosting food production while reducing water use and emissions.

Various irrigation methods are used worldwide, shaped by factors such as water availability, financial capacity, and expected crop returns. In Pakistan, free flooding is a common yet inefficient practice, particularly for orchards. A more efficient approach is basin irrigation. This method concentrates water and fertilisers at the root zone, promoting better plant growth and higher yields.

