

## Vineyard Irrigation Scheduling Part 2: Precipitation Rate

A vineyard is divided into 4 irrigation blocks.

- Each block has 10 rows of vines, with 20 vines per row.
- Each row is 120 feet long, with 6 feet spacing between rows.
- The drip irrigation system is installed with two emitters per vine.
- The flow rate of the emitter is 1 GPH.

1. What is the flow rate of each irrigation block in gallons per minute?
  
  
  
  
  
  
  
  
  
  
  
2. What is the area of each irrigated block in square feet?
  
  
  
  
  
  
  
  
  
  
  
3. What is the precipitation rate of each block in inches per hour?
  
  
  
  
  
  
  
  
  
  
  
4. If the grapes have a weekly water requirement of 1.40 inches, how many minutes per week of irrigation are needed in July?