

Efficient Irrigation Design Worksheet

- ____ 1. Which of the following is a part of making an irrigation design?
- a. Collecting Site Information
 - b. Defining Plant Watering Needs
 - c. Calculating System Hydraulics
 - d. Identifying Local Regulations
 - e. Choosing Sprinklers
 - e. All the Above
- ____ 2. Cities of what population must have an irrigation ordinance requiring an irrigation design (plan)?
- a. 10,000
 - b. 20,000
 - c. 50,000
 - d. 100,000
- ____ 3. What is the maximum speed (velocity) that water can travel through an irrigation system using PVC material?
- a. 3 ft/s
 - b. 5 ft/s
 - c. 7 ft/s
 - d. 9 ft/s
- ____ 4. Which of the following is not a TCEQ requirement for an irrigation plan?
- a. Design Pressure
 - b. Zone Flow Measurement
 - c. Pipe locations
 - d. Must use drip irrigation
- ____ 5. TCEQ allows no spray irrigation in areas less than ____ inches with impervious areas on either side.
- a. 36
 - b. 48
 - c. 55
 - d. 72
- ____ 6. Which of the following sprinkler flow rates will not result in matched precipitation rate?
- a. 4 GPM Full Circle, 2 GPM Half Circle
 - b. 6 GPM Full Circle, 2 GPM Quarter Circle
 - c. 3 GPM Full Circle, 1 GPM Half Circle
- ____ 7. What factors define an irrigation zone (hydrozone)?
- a. Plant Material Type
 - b. Microclimate Factors
 - c. Soil Type
 - d. Slope
 - e. A & C Only
 - f. All the Above
- ____ 8. ____ Pressure is defined as the pressure of an irrigation system in operation.
- a. Dynamic
 - b. Static
 - c. Operating
 - d. A & C only

True/False

- ____ 9. It is allowed to irrigate flowers and groundcover in the same station as long as the irrigation does not produce any runoff.
- ____ 10. Sprinklers should be spaced further apart to account for windy conditions.
- ____ 11. All irrigation systems should be pressure regulated.
- ____ 12. Looped Mainlines are required for all new irrigation systems.
- ____ 13. It is allowed to exceed manufacturers published performance limitations for a component as long as it does not produce any runoff.
- ____ 14. Triangular sprinkler spacing requires sprinkler heads to be placed parallel and perpendicular to each other.
- ____ 15. Head to head spacing requires sprinkler spacing to be equal to the sprinkler radius.