

1. Which of the following is a calcium deficiency in plants?
  - a. Edge burn
  - b. Blossom end rot**
  - c. Verticillium wilt
  - d. Leaf drop
2. What linkage component of the cell wall is unable to form when tissues are calcium-deficient?
  - a. Pectin**
  - b. Cellulose microfibril
  - c. Lignin
  - d. Phenolic compounds
3. Calcium is a(n)..
  - a. Anion
  - b. Cation**
4. Calcium is transported with water through the...
  - a. Phloem
  - b. Xylem**
  - c. Cork cambium
  - d. Nucleus
5. Daytime mass flow is driven by \_\_\_\_\_, while nighttime mass flow is driven by \_\_\_\_\_.
  - a. Transpiration, Root pressure**
  - b. Humidity, Root pressure
  - c. Root pressure, Transpiration
  - d. Root pressure, Vapor pressure
6. Calcium is a(n) \_\_\_\_\_ nutrient.
  - a. Mobile
  - b. Immobile**
  - c. Unavailable
  - d. Micro-
7. Where do tipburn symptoms first appear in lettuce?
  - a. Old leaves
  - b. Roots
  - c. Leaf midribs
  - d. Young leaves**
8. Transpiration is driven by which of the following?
  - a. Wind
  - b. Humidity (VPD)
  - c. Air temperature
  - d. Leaf temperature
  - e. Radiation
  - f. All of the above**
9. Which of the following is *not* a methodology to reduce or prevent lettuce tipburn?
  - a. Enhance transpiration
  - b. Harvest early
  - c. Slow down the plant growth

- d. **Double the calcium concentration in the nutrient solution**
  - e. Spray foliar calcium
10. What is the target airflow speed for downward vertical fanning of lettuce to reduce tipburn?
- a. **0.3 – 0.5 m/s**
  - b. 1.3 – 1.5 m/s
  - c. 3 – 5 m/s
  - d. 1.5 – 2.3 m/s