

New Technology for Commercial Vegetable and Fruit Production (XIII)

Wednesday, February 26, 2025, from 8:45 to 4:00 PM

Blueberry Classroom 154 (behind Fifield Hall) & via Canvas

County: _____ City: _____ Zip code: _____

Name: _____ (Use the **same** name or symbol for pre- and post-tests)

Pre-test

Presentation Title:

Oxygen Fertilization: A Game Changer for Soil and Crops

Presenter: Dr. Guodong Liu (David) (352-273-4814) guodong@ufl.edu

1. Soil Eh generally varies from -300 to +900 mV, with the optimal range for maximizing crop production being ____ mV.
 - A. +250 to +300 mV.
 - B. +300 to +350 mV.
 - C. +350 to +400 mV.
 - D. +400 to +450 mV.
 - E. +450 to +500 mV
2. Global warming reduces oxygen levels in water. At 77°F (25°C), freshwater contains 8.26 ppm of dissolved oxygen, but at 95°F (35°C), the dissolved oxygen level drops to approximately _____ ppm.
 - A. 6.95.
 - B. 6.62.
 - C. 5.93.
 - D. 4.94
3. Potassium nitrate is a type of oxygen fertilizer.
 - A. False.
 - B. True.
4. Oxygen fertilization can significantly enhance seed germination. For instance, the germination rate of three-year-old corn seeds increased by _____% after oxygen fertilizer treatment.
 - A. 30
 - B. 40
 - C. 50
 - D. 60
 - E. More than 60