UF IFAS **UNIVERSITY** of FLORIDA











Rootstocks and pH

- HLB shifts root pH tolerance
- Swingle and Carrizo respond well to soil acidification at the pH 5.5-6.5 range
- Shift in other rootstocks is unkown



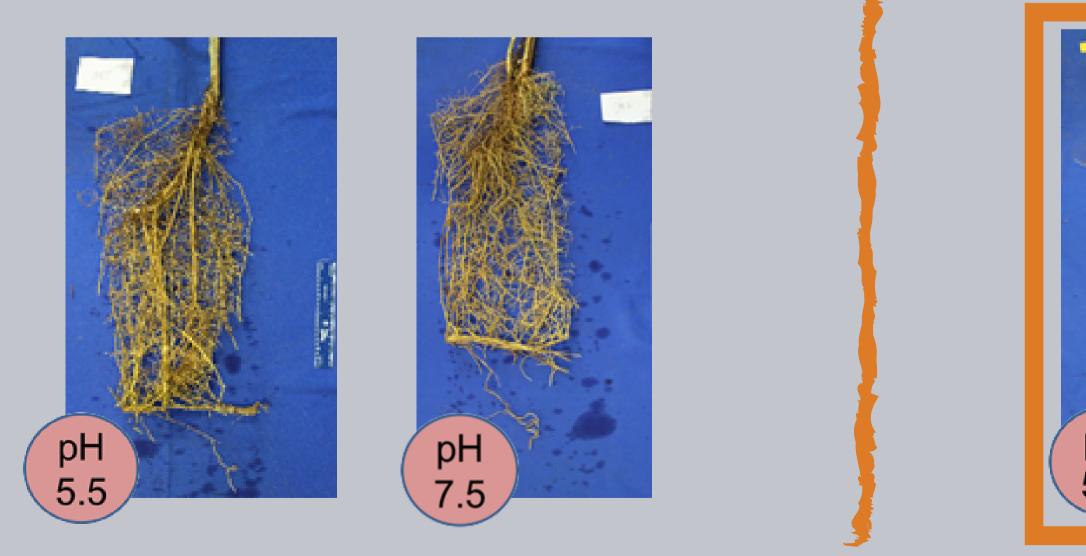






Swingle roots prefer lower pH

Healthy trees



HLB trees



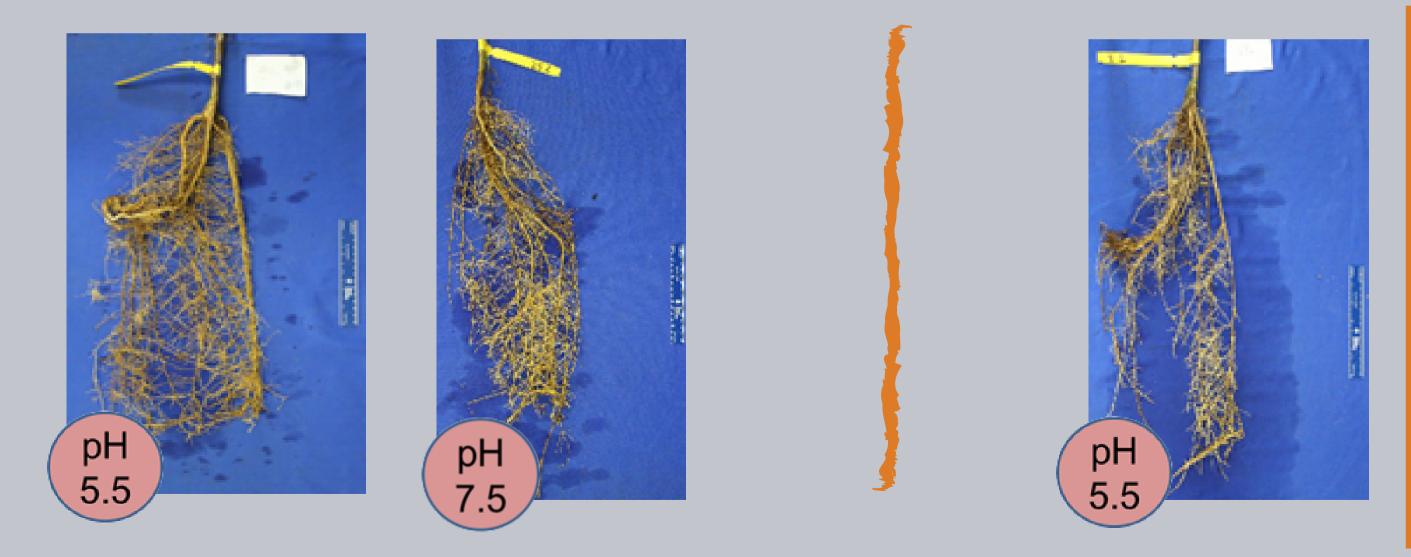






US 942 roots prefers higher pH

Healthy trees



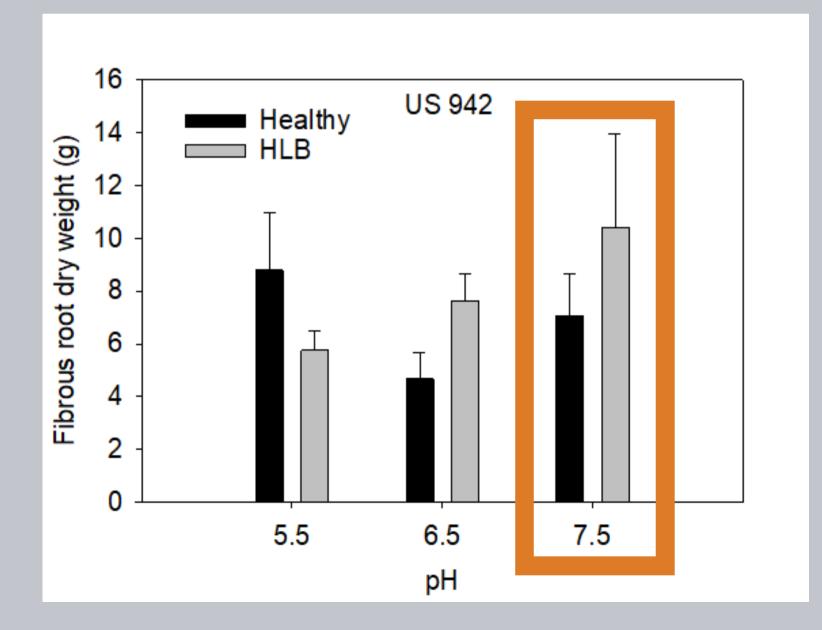
HLB trees





Under HLB, US 942 prefers a higher pH value

- US 942- Preliminary greenhouse results
- Trees treated with high bicarbonate well water acidified with sulfuric acid







Rootstocks and pH



- - for final recommendations
- Be careful modifying pH in rootstocks lacking solid data



- HLB causes a shift in pH tolerance NOT
 - always to lower pH
- Each rootstock needs data from field trees