TRUNK INJECTION: HOW TO IMPROVE THE EFFICIENCY OF INJECTED COMPOUNDS IN TREES

1. KNOW THE SOIL - PLANT - ATMOSPHERE CONTINUUM

2. KNOW YOUR INJECTION TECHNOLOGY AND THE PROBLEM YOU ARE TREATING
   - Needle-insertion injection tools (less trunk injury)
   - Drill-based injection tools (more trunk injury)
   - Water volume of injection and the number of ports per tree (influences the uniformity of distribution in the crown)
   - Develop injection time schedule for one season pest control

3. KNOW THE PROPERTIES OF YOUR CHEMICAL COMPOUND AND SOLUTION FOR INJECTION
   - Formulation (designed for injection)
   - Water solubility (better movability in tree)
   - Organic carbon-water partitioning coefficient (Koc - the lower the better and faster movability in tree)
   - Injection solution pH (best around 7)