

# Prevention of risks on hydraulic structures: devitalization method of young trees



In accordance with recent regulation strengthening relating to security of hydraulic structures, owners and managers are forced to insure the monitoring, technical follow-up and periodic maintenance. But recent regulations forbid the use of chemical products near watercourses.

Today, few solutions exist in face of fast young tree development which will induce risk in mid-term. For deciduous trees, logging will not stop woody plants growth but reinforce their root systems aggravating damages on hydraulic structures in mid-term. And the only mechanical methods are expensive, lacking and only curative treatment. Consequently, it is primordial to develop rapidly new methods of tree growth control before emergence of first signs of degradation.

Actually not one effective method exists because methods must take into account many constraints link with these specific issues.

ARBEAUSOLUTIONS leads currently R&D works with thesis in collaboration with INRA in order to identify solutions of devitalization of young trees. First experiments have taken place on greenhouse sites and will allow to improve the different methods executed.

