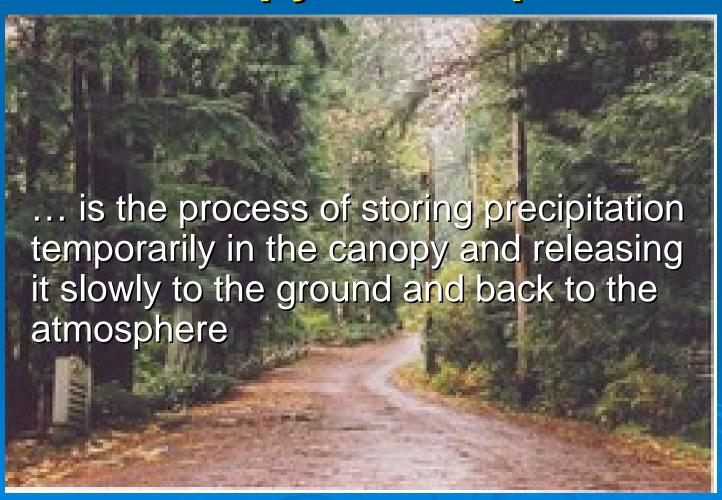
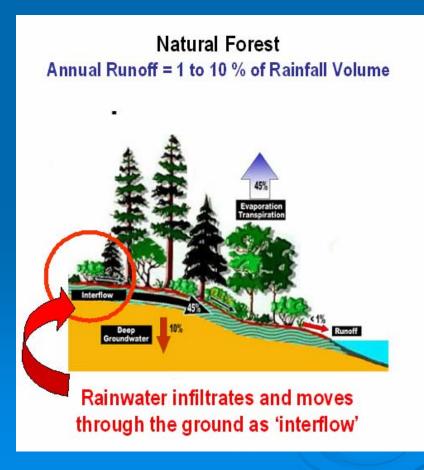


Tree canopy interception ...



When the tree canopy is removed, there is more rainwater volume to manage on the ground





After Residential Development

The project is precedent-setting because...



...it will quantify the proportion of rainfall intercepted by the tree canopy in an urban forest

The three North Shore municipalities are collaborating as part of a broad-based partnership





The UBC team is led by Dr. Hans Schreier and Dr. Markus Weiler







A network of 60 Tree Canopy Climate Stations has been established across the North Shore

... to investigate the effects of tree density, tree structure and tree species on rainfall interception



The project has a human interest dimension because ...

... the North Shore
Mentally Handicapped
Association mass
produced the support
structures for the
Tree Canopy Climate
Stations



The project has engaged community volunteers in the Clovelly-Caulfeild neighbourhood of West Vancouver





The right trees in the right places

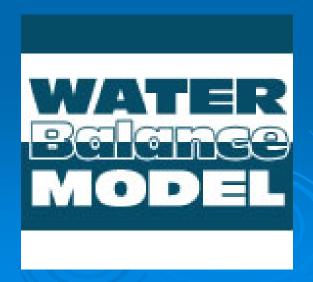
"...very little research has been done in an urban setting anywhere in North America. One of our research interests is to determine the effectiveness of a single tree versus that for a cluster of trees."



Dr. Markus Weiler Chair of Forest Hydrology University of British Columbia

The research results will be incorporated in the Water Balance Model, a web-based tool for calculating annual runoff volumes under different combinations of:

- Building coverage
- Rainfall
- Soil type and depth
- Tree canopy coverage
- Source controls



The UBC Tree Canopy Interception Research Project will enable municipalities to make informed decisions about 'designing with nature'

