TREE DIAMETER AND JUICE FLOW MEASUREMENT SYSTEM IN THE TREE

IBL – PROJECT ANALYSIS

TREE DIAMETER AND JUICE FLOW MEASUREMENT SYSTEM IN THE TREE

Two stations measuring the change in tree diameter over time and the flow of juices (water) through tree trunks.

The system consists of two measuring stations that examine the change in tree diameter and the flow of juices (water) through tree trunks.

Specialized sensors - dendrometers and SAP-Flow sensor were used for the measurements.
Research is aimed at correlating tree growth along with precipitation, to allow for more precise definition of tree growth during the hydrological year. They also aim to determine the differences depending on the groundwater level. The entire system enables comprehensive research to optimize the management of resources of the State Forests.

Customer:
Instytut Badawczy Lesnictwa,

Location:
Podlaskie voivodeiship, Poland

Design:
Tree growth monitoring system

Equipment:
2 data loggers

2 dendrometers sensors DR and DD-L

1 juice flow sensor Sap-Flow

1 water level sensor LMP633

WORKS

- Tree growth parameter measurements
- Groundwater level measurements
- Measurement datalogging

SUMMARY

- Construction of measuring stations in representative localizations
- Continuous recording of selected parameters
- Determining tree growth during hydrological year. Securing

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