

Erosion measuring devices

Run-off measuring system

201100 Measuring system for recording and sampling erosion-borne surface drains



The system consists of the following structural units:

Microcomputer-aided sampler

Representative sampling in dependence on meteorological and hydrological factors

Meteorological measuring unit

Determination of factors that influence the soil (rain, wind speed and wind direction, air humidity and temperature, radiation, surface moisture)

Soil hydrological measuring unit

Determination of factors that influence the soil water balance (soil moisture, soil tension, infiltration, evaporation, soil temperature)

The following functions are performed:

- Recording of the process-affecting meteorological and hydrological parameters
- Recording of the beginning and intensity of surface drain Automatic interval sampling of drain and sediment for subsequent analysis with graded sampling frequency according to drain intensity and expected sediment concentration
- With drain quantity divider, sampling is possible both on test plots and on catchment areas up to 3 hectares in size.

Wind erosion sediment collector

202100



The system consists of the following structural units:

- Automatically recording sediment collector
- Cumulative time-related pondering of sediment load in wind profile
- Meteorological measuring unit
- Recording of wind direction and wind speed, air temperature and humidity

The following functions are performed:

- Recording of the beginning and intensity of sediment erosion
- Recording of process-affecting meteorological parameters
- Analysis of the sediment composition of wind erosion load

Special equipment acc. to project target