

“VODA” (WATER) - THE WATER MANAGEMENT INFORMATION PORTAL

www.voda.mze.cz

BACKGROUND

The water management information portal „VODA (WATER)“ represents activities of the Ministry of Agriculture and other central state water authorities of the Czech Republic (the Ministry of Environment, the Ministry of Transport, the Ministry of Defence and the Ministry of Health) coordinated by the Ministry of Information. Systematically-arranged information are easily available to the public in frame „Current Information“ - flow rates in watercourses, water quality in watercourses and reservoirs or about rainfall amounts in selected stations. More information for state administration in water management is showed in frame „Information system of public administration“.



Fig 1 The Czech Republic River basins
(<http://www.voda.mze.cz/en/>)

BENEFITS

- The hydrological basins are registered to the extent of the information relating to their identification number, area size, regional identification and watershed identification.
- The information of the watercourse under their administration is further processed by the river basin administrators: “Povodi” River Board companies, the Agricultural Water Management Administration, the state enterprise “Lesy Ceske republiky” (Forests of the Czech Republic), regional offices and national parks administration; the processed data is then stored in the public administration information system.
- T. G. Masaryk Water Management Research Institute passes on to the administrator the elementary bases of geographical data of the Czech Republic.

BENEFITS

- The application "Precipitation" provides the actual information on hourly precipitation totals coming from automated rain gauge stations and on the air temperatures measured by psychrometres within the state monitoring network operated by the Czech Hydrometeorological Institute (CHMU) and by the climatic stations and on water structures administered by the state enterprises of River Boards. This application gives the summary of hourly precipitation totals taken during the past 24 hours and of daily precipitation totals taken during the past 7 days as well. When the temperature exceeds the "zero" value, the automatic system of psychrometers displays the total precipitation during the past 60 minutes. In case the temperature falls below the "zero" value, the snow falling melts and the measuring device measures the volume of water contained in it. Normally, the data are updated once a day but the frequency of measurement increases in case the flood impends or during the flood event.



Fig 2 "Povodi Ohře" River Board Company – basin's map
(http://www.voda.mze.cz/en/mnozstvi_jakost.htm)

BENEFITS

- The *quality* of surface water is registered to the extent of the information relating to the characteristic values of the surface water quality indicators, calculated from the values measured in the state surface water quality monitoring network that is operated by the CHMU, and from the values measured in the surface water level and quality monitoring profiles, operated by the Agricultural Water Management Administration.
- The *quantity* of surface water is registered to the extent of the information relating to the measured water flow, natural water flow in the watercourses in selected measuring stations and in the profiles inserted in the watercourses based on the outputs of the hydrological balance of water quantity, and regional identification of the surface water quantity monitoring profiles.

<http://www.voda.mze.cz/en/>

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