

Lithuania

Capital city: Vilnius
Inhabitants: 2.8 Million



INSTITUTIONAL SETTING AND PURPOSE

The Ministry of Environment (MoE) is in charge of water resources management in Lithuania. The Lithuanian Geological Survey (LGS) under the MoE implements the EU Water Framework Directive related to groundwater and manages its monitoring, classifies the status of groundwater bodies and establishes objectives for groundwater bodies. Additionally, groundwater

monitoring in Lithuania is carried out in accordance with the State Environmental Monitoring Program. The network is focused on determining the state and trends on groundwater quantity and quality. It includes groundwater level measurements and groundwater sampling for laboratory analysis.

CHARACTERISTICS OF THE NETWORK

The quantitative groundwater monitoring network in Lithuania consists of 76 observation wells. Measurements of the groundwater level and temperature are performed daily. The measurements are collected twice a year and processed by the Geological Survey.

The majority of groundwater quantitative monitoring stations are installed in shallow aquifers (60 wells), which are sensitive to the change in meteorological conditions.

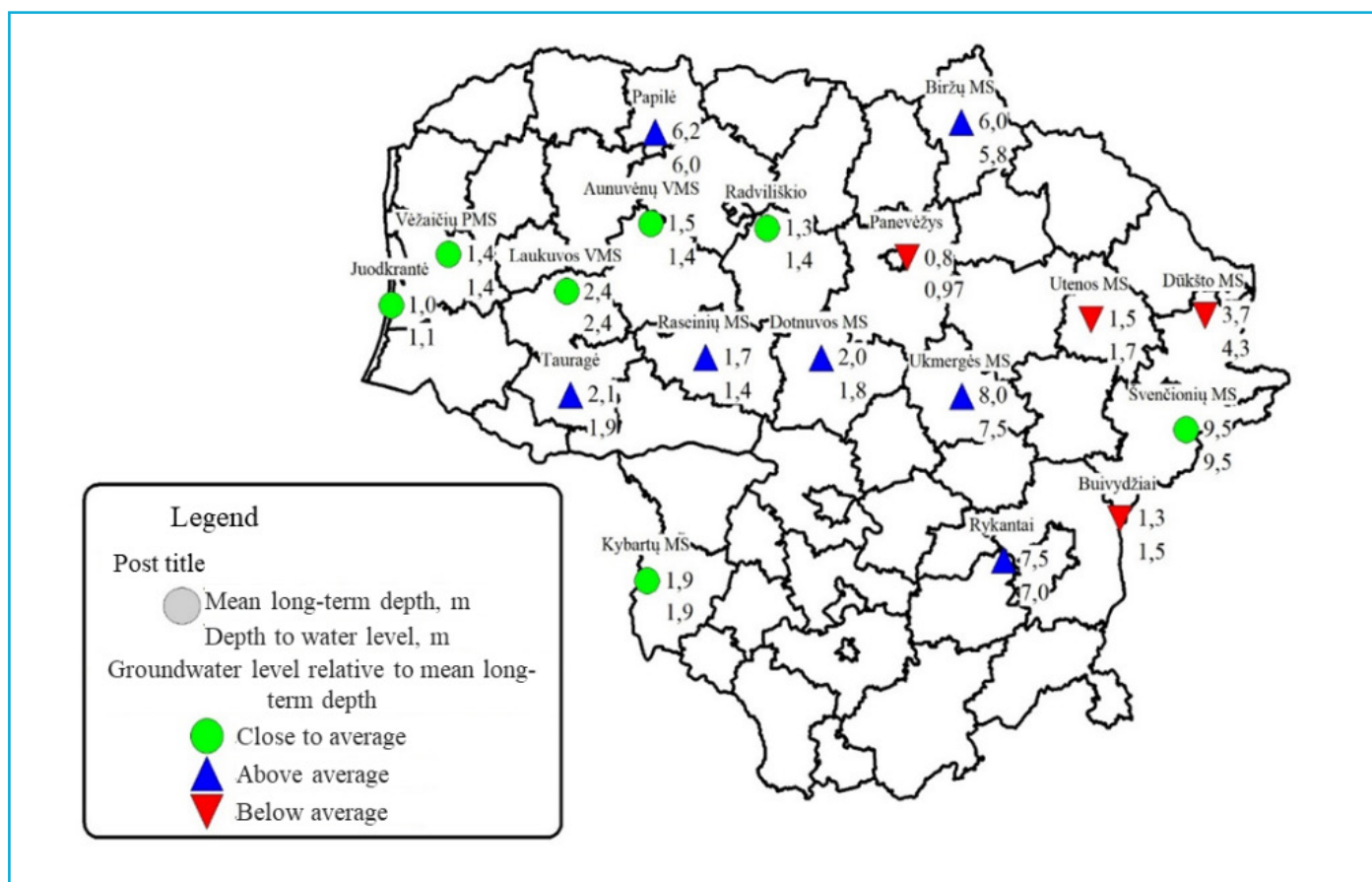


Figure 1 - Groundwater levels in 2017 in comparison with levels from 2006-2017 period

PROCESSING AND DISSEMINATION

National Groundwater Monitoring Statistics is available at the LGS website (<https://www.lgt.lt/>) based on monitoring data from 1990 till 2018. The information can be grouped by counties, districts, municipalities, river basins and aquifers.

Limited data from the observation wells is available on the web portal of the LGS, figure 2. When selecting an observation point, a user gets the code, name and type of the well with XY coordinates, monitoring type, measured parameters and the name of an aquifer.

Apparently, data from the National Groundwater Monitoring Network are accessible by logging in as a Lithuanian resident, business entity or public sector through the E-Government Gateway.

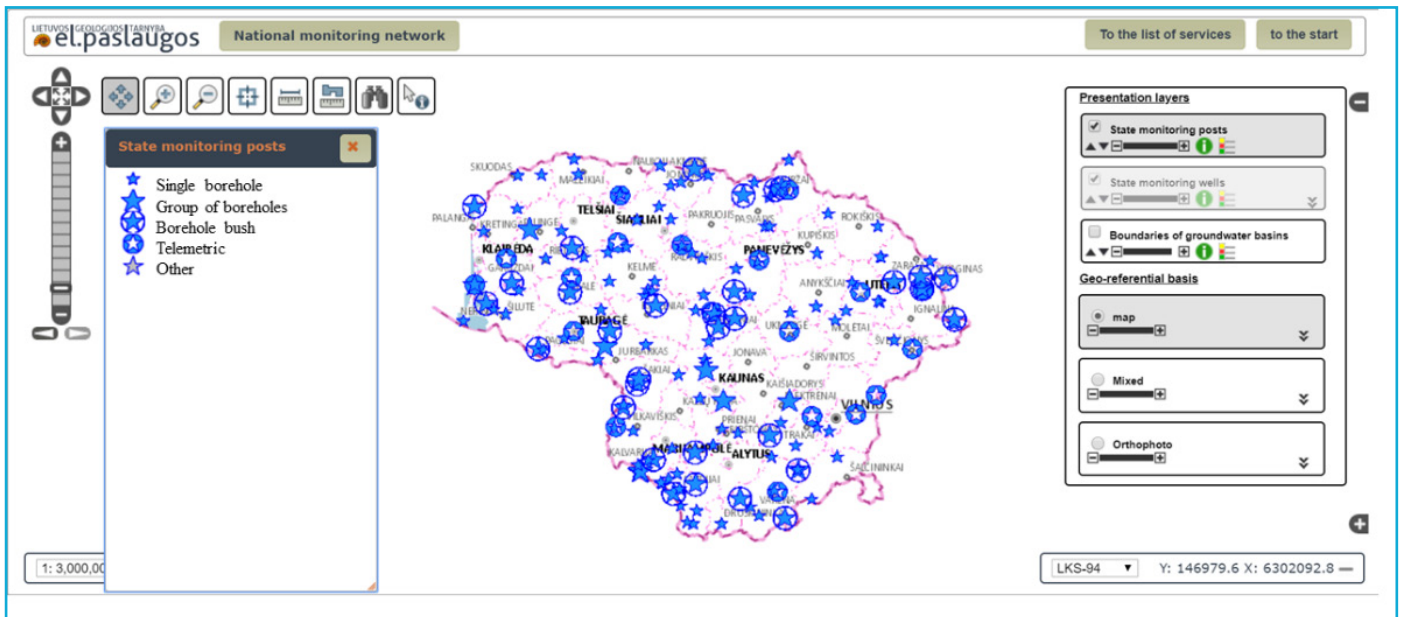


Figure 2 - National monitoring network in Lithuania. Source: LGS web portal

Sources

- **Food and Agriculture Organization of the United Nations (FAO) AQUASTAT, 2016** - <http://www.fao.org/aquastat/en/countries-and-basins/country-profiles/country/LTU>;
- **Groundwater Information System (PozVIS)** - <https://www.lgt.lt/epaslaugos/index.xhtml>;
- **Lithuanian Geological Survey** - <https://www.lgt.lt/>; and
- **Lithuanian Geological Survey. Exploration** - https://www.lgt.lt/index.php?option=com_content&view=article&id=156&Itemid=1265&lang=lt.