

Parameter List Gathered from PERMATIL

Parameter (theme)	Units	Scale/Resolution	Comments
Rainfall (water resources) (climate)	mm	Daily, Monthly, Annual	Need to compare between years and see rain throughout the year (i.e., seasonality) Would also like to calculate daily and monthly mean
Spring Flow Rate (water resources)	l/s (see comment)	Daily, Monthly, Annual	Need to be able to compare between and within years, a monthly average would also be helpful Units should match field data and be consistent with other parameters
Soil moisture (water resources)	%	Automatic Weather Stations (i.e., catchment areas) By retention ponds	For PERMATIL, the soil moisture near the retention pond locations is important for evaluating and directing their conservation efforts. This would be a useful future step for PERMATIL's work.
Wind speed (climate)	m/s		<i>This variable was discussed but it was decided that it is not a high priority for the dashboard.</i>
Temperature (climate)	°C	Daily, Monthly, Annual	
Water tank level (water use/availability)	%/cm/l		It is suggested that graphs may show water tank level as cm, litres, or as a percentage, and that the absolute measurement (cm or litres) and the percentage could be shown simultaneously by adjusting the scale and units on the Y-axis so that only one line is needed on the graph to show the data with any units (this comment relates to any graphs on the dashboard or platform that show tank level, as it was noted that the two lines on the default platform graph could be streamlined into a single line by adjusting the axis labels and units). Information on the maximum tank capacity should be included. Participants stated that it is useful to see whether water is going into the tank. Therefore, tank level (or inflow) should be included in the dashboard, as well as the calculated water use (below).
Water use (water use/availability)	L/HH/D L/C/D L/Tank/D	At each water tank	Water use can be indirectly calculated using change in the water tank level (though this includes leakage). This could also be measured using the outflow of the tank. For the dashboard, this calculation would assist with interpreting water supply information. Though water tank level is useful on its own, calculating daily water use using tank level fluctuations would

			<p>assist users who are not as focused on the detailed functioning and use of the water tank system.</p> <p>Given the lack of accurate population/household data, it is suggested that daily water use could be presented as a total per tank (ensuring that data quality can be controlled by Similie). The water use per household or per capita can also be calculated as this is preferred for end users. Between “per household” or “per person”, the recommendation from the discussion is to use per household but state the average number of people per household.</p>
Number of water users (water use/availability)		Households Population	See note on data quality above
Time (context)		Most variables on daily, monthly, and yearly scales.	<p>Overall, the time scales which are most relevant are changes between and within years (i.e., seasonality)</p> <p>Need to compare before and after water conservation</p>
Place (context)		Location	Currently, the location of measurement is available. However, in the future this could include GIS or analysis at the <i>postu</i> or <i>suco</i> level (e.g., mean daily water use per person in a municipality)