

Austrian bathing water quality in 2015



Austria 

May 2016

BWD Report For the Bathing Season 2015

Austria

The report gives a general overview of information acquired from the reported data, based on provisions of the Bathing Water Directive¹. The reporting process is described below, as well as state and trends of bathing water quality in Austria.

1. BWD reporting in the season 2015

In 2015 bathing season, 266 bathing waters have been reported in Austria. For each bathing water, five groups of parameters have been delivered²:

- *identification data* – including name, location, geographic type of bathing water and availability to bathers;
- *seasonal data* – including season start and end, national quality classification in present season, potential management measures and changes in quality;
- *monitoring results* – disaggregated numerical values of two microbiological parameters – intestinal enterococci and Escherichia coli (also known as E. coli), recorded at each water sample taken;
- *abnormal situation periods* – periods of unexpected situations that have, or could reasonably be expected to have, an adverse impact on bathing water quality and on bathers' health; reporting is optional;
- *short-term pollution periods* – identifiable events that adversely affect water quality by faecal contamination; reporting is optional.

Bathing waters of Austria in 2015	
Total reported	265
Coastal	0
Inland	265
Max season period	78 days
	15 Jun to 31 Aug
Samples taken	1419
Share of bathing waters with good or excellent water quality	99 %
Reporting under Directive 2006/7/EC since	2010

The authorities of Austria report data according to the new BWD (2006/7/EC) since the season 2010. The data for the season 2015 were delivered to the European Commission by **22 December 2015**, with additional deliveries on 15 March 2016.

Altogether, **265 bathing waters** have been reported – 1.2% of all bathing waters in Europe. Out of all bathing waters in Austria, none have been newly identified in 2015 season. All bathing waters in Austria are inland. **1419 samples** were taken at bathing waters throughout the season – 5 per bathing water on average.

¹ Directive BWD 2006/7/EC, available at <http://eur-lex.europa.eu/LexUriServ/LexUriServ.do?uri=OJ:L:2006:064:0037:0051:EN:PDF>

² See the BWD Data Dictionary for detailed explanations: <http://dd.eionet.europa.eu/datasets/3294#tables>

Maximum bathing season period was from 15 June to 31 August, i.e. 78 days.

Detailed information on bathing waters is available from national portal at http://www.wisa.bmlfuw.gv.at/wasserkarten/sonstige_themen/badegewaesser_oesterreich.html.

2. Assessment methodology³

During the bathing season, water samples are taken and analysed for two bacteria, *Escherichia coli* and intestinal enterococci which may indicate the presence of pollution, usually originating in sewage, livestock waste, bird faeces etc. The results of the analysis are used to assess the quality of the bathing waters concerned and to provide information to the public on the quality of water in the bathing sites concerned.

The monitoring requirements under the Directive are:

- taking a pre-season sample (taken shortly before the start of the bathing season) ⁴;
- a minimum of four samples per season⁵;
- a minimum of one sample per month⁶.

If these rules are satisfied, the bathing water is categorised as 'sampling frequency satisfied'. If not all monitoring requirements are fulfilled the bathing water is categorised as 'not enough samples'. All bathing waters met the described monitoring requirements set by the Directive. Table 1 shows the statistics of bathing waters according to monitoring requirements.

³ The methodology used by the EC and the EEA is described here, while results of assessment by national authorities may differ in individual cases.

⁴ A pre-season sample is taken into a sum of samples per season.

⁵ Three samples are sufficient if the season does not exceed eight weeks or the region is subject to special geographical constraints.

⁶ If, for any reason, it is not possible to take the sample at the scheduled date, a delay of four extra days is allowed. Thus, the interval between two samples should not exceed 31 + 4 days.

Table 1: Bathing waters in 2015 according to compliance with BWD monitoring provisions

	Count	Share of total [%]
<p>BWs with sampling frequency satisfied (and are not new, are not subject to changes or were not closed in 2015)</p> <p>These bathing waters have been monitored according to provisions and have complete dataset from the last assessment period. They have been quality-classified (excellent, good, sufficient, poor).</p>	265	100.0%
<p>BWs with sampling frequency not satisfied (and are not new, are not subject to changes or were not closed in 2015)</p> <p>These bathing waters exist throughout the last assessment period but have not been monitored throughout the period according to provisions for various individual reasons. They may be quality-classified if there is an adequate volume of samples available for credible classification.</p>	0	0.0%
<p>BWs that are new, subject to changes or closed in 2015</p> <p>These bathing waters do not have complete dataset for the last assessment period because they are new, have been subject to changes (that are likely to affect the classification of the bathing water) or have been closed. They cannot be quality-classified.</p>	0	0.0%
Total number of bathing waters in 2015	265	100%

Bathing waters where sampling frequency was not satisfied can still be quality assessed if at least four samples per season (three samples if the season does not exceed eight weeks or the region is subject to special geographical constraints) are available and equally distributed throughout the season. Assessment of bathing water quality is possible when the bathing water sample dataset is available for four consecutive seasons. Bathing waters are accordingly classified to one of the bathing water quality classes (excellent, good, sufficient, or poor).

The classification is based on pre-defined percentile values for microbiological enumerations, limiting the classes given in Annex I of the Directive. The Directive defines different limit values for coastal and inland waters.

Quality assessment is not possible for all bathing waters. In these cases, they are instead classified as either:

- not enough samples⁷;
- new⁸;
- changes⁹;
- closed¹⁰.

⁷ Not enough samples have been provided throughout the last assessment period (the last four bathing seasons or, when applicable, the period specified in Article 4.2 or 4.4).

⁸ Classification not yet possible because bathing water is newly identified and a complete set of samples is not yet available.

⁹ Classification is not yet possible after changes that are likely to affect the classification of the bathing water.

¹⁰ Bathing water is closed temporarily or throughout the bathing season.

3. Bathing water quality

The results of the bathing water quality in Austria throughout the past period are presented in Figure 2. The previous reports are available on the European Commission's bathing water quality website¹¹ and the European Environment Agency's bathing water website¹².

3.1 Coastal bathing waters

There are no coastal bathing waters in Austria.

3.2 Inland bathing waters

99.2% of all existing inland bathing waters were of at least sufficient water quality in 2015. See Appendix 1 for numeric data.

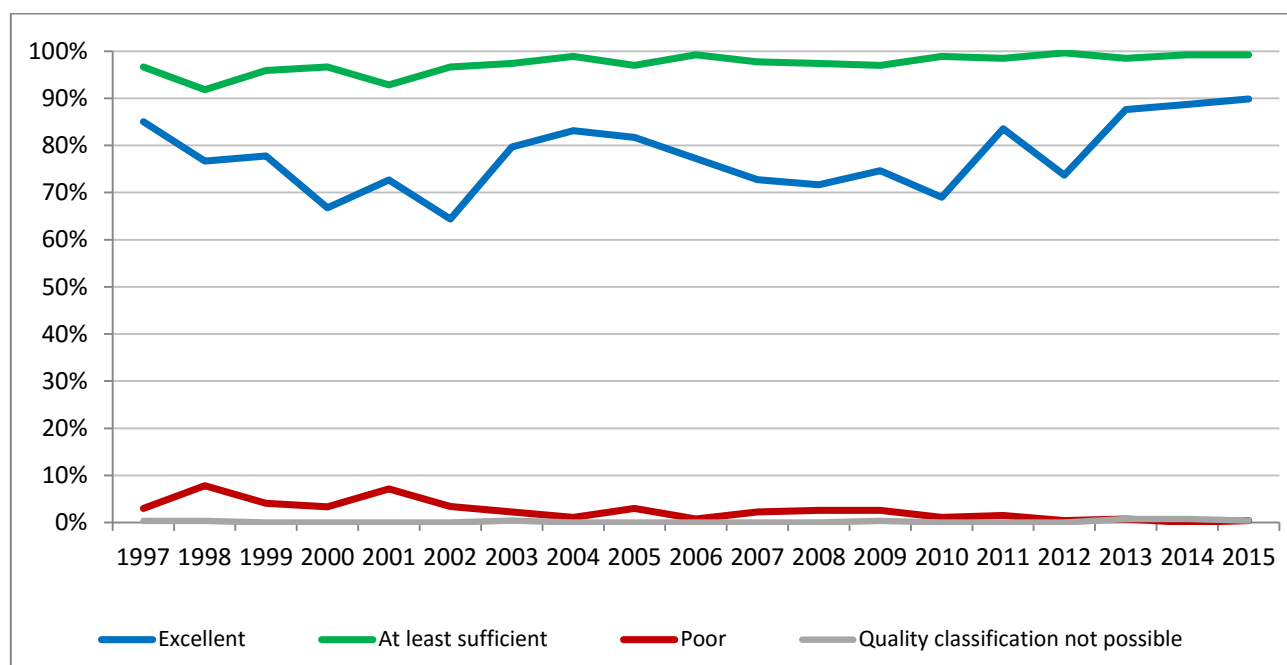


Figure 1: Inland bathing water quality trend in Austria. Note: the "At least sufficient" class also includes bathing waters of "Excellent" quality class, the sum of shares is therefore not 100%.

4. Information regarding management and other issues

Due to the elevated concentrations of intestinal enterococci (1716 CFU / 100) measured on 2016-06-17, a bathing water prohibition was introduced at bathing water Autobahnsee Viehhausen (BWID AT3230005000010010). Normal concentrations were measured after one week and swimming ban was removed. Fences have been constructed on bathing waters Zicksee, St. Andrä (BWID

¹¹ http://ec.europa.eu/environment/water/water-bathing/index_en.html

¹² <http://www.eea.europa.eu/themes/water/status-and-monitoring/state-of-bathing-water>

AT1120006200140010) and Neusiedlersee, Podersdorf (AT1120006100060010) in order to prevent further impact on bathing water quality caused by goose families. On the bathing water Steinbrunner See (BWID AT1120001800130010) deep water ventilation has been optimized and completed five years long investigation.

5. Bathing water quality assessment presentation in online viewers

The European bathing water legislation focuses on sound management of bathing waters, greater public participation and improved information dissemination. More on the bathing and other water legislation can be found on the European Commission's website:

http://ec.europa.eu/environment/water/index_en.htm.

The bathing water section of the Water Information System for Europe (WISE) which is accessible at the EEA bathing water website (<http://www.eea.europa.eu/themes/water/interactive/bathing/state-of-bathing-waters>) allows users to view the bathing water quality at more than 21 000 coastal beaches and inland sites across Europe. The WISE bathing water quality data viewer combines text and graphical visualisation, providing a quick overview of the bathing water's locations and achieved quality. Having access to bathing water information, citizens are encouraged to make full use of it and participate with their comments.

Appendix 1: Results of bathing water quality in Austria from 2012 to 2015

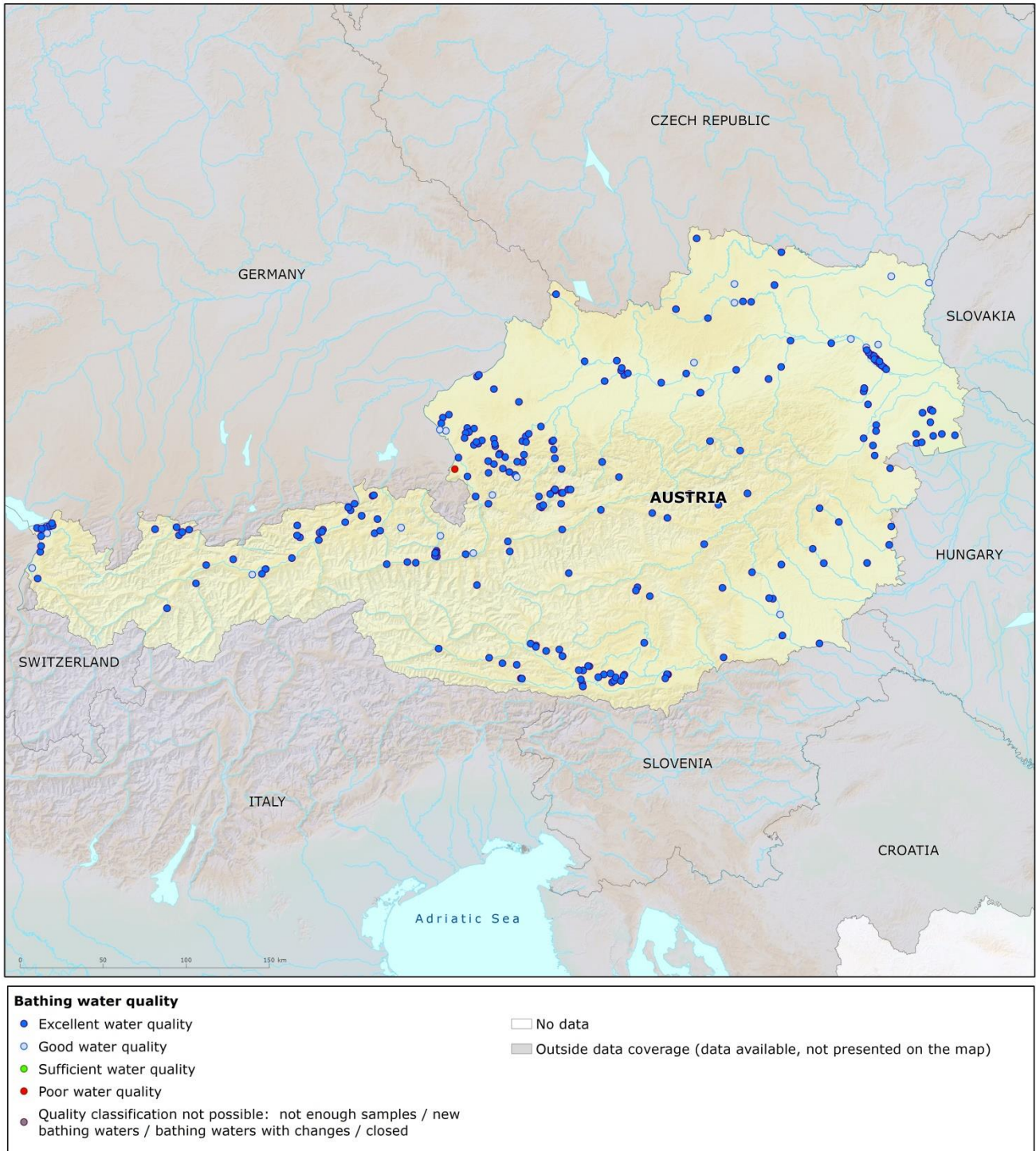
Table 2: Bathing waters in the season 2015 according to quality

		Total number of bathing waters	Excellent quality		At least sufficient quality		Poor quality		Quality classification not possible: not enough samples /new bathing waters/bathing waters subject to changes/closed	
			No	%	No	%	No	%	No	%
Total	2012	266	196	73.7	265	99.6	1	0.4	0	0.0
	2013	266	233	87.6	262	98.5	2	0.8	2	0.8
	2014	266	236	88.7	264	99.2	0	0.0	2	0.8
	2015	265	239	90.2	264	99.6	1	0.4	0	0.0

Note: the class "At least sufficient" also includes bathing waters which are of excellent quality, the sum of shares is therefore not 100%.

Appendix 2: Bathing water quality map

Map 1: Bathing waters reported during the 2015 bathing season in Austria



Source: National boundaries: EEA; Large rivers and lakes: EEA, WFD Article 3; Bathing waters data and coordinates: Austrian authorities; Digital Elevation Model over Europe (EU-DEM): EEA.