

# Emissions – overview and reporting 2020



## 2008 – Testing – very simple excel table (nutrients, organics + 6 metals)

	NUTRIENTS	NUTRIENTS	ORGANIC	ORGANIC	ORGANIC
DIFFUSE EMISSIONS; SOURCE/SECTOR	TOTAL N (T/YEAR)	TOTAL P (T/YEAR)	BOD (T/YEAR)	TOC (T/YEAR)	COD (T/YEAR)
AGRICULTURE					
ATMOSPHERIC DEPOSITION					
UN-CONNECTED DWELLINGS					
URBAN DIFFUSE					
OTHER DIFFUSE <sup>7</sup>					
BACKGROUND					
TOTAL DIFFUSE - ALL SOURCES COMBINED					
<b>POINT EMISSIONS; SOURCE/SECTOR</b>					
UWWTD P.E.>100,000 <sup>8</sup>					
UWWTD 10,000 > P.E.≤100,000 <sup>8</sup>					
UWWTD 2000 ≤ P.E.≤ 10,000 <sup>8</sup>					
UWWTD P.E.<2,000 <sup>8</sup>					
UWWTD TOTAL <sup>8</sup>					
INDUSTRY IPPC <sup>9</sup>					
INDUSTRY NON IPPC <sup>9</sup>					
INDUSTRY TOTAL <sup>9</sup>					
OTHER POINT <sup>10</sup>					
TOTAL POINT - ALL SOURCES COMBINED					
<b>TOTAL RIVER LOAD (T/YEAR) <sup>11</sup></b>					



## 2010 – Regular reporting – new structure

Country Code	SpatialUnitCode	SpatialUnit Name	SpatialUnit Category	Period Years	Determinand NutrientsID	DeterminandNutrientsName	SourcePoint Emission	EPRT facilities	Emission
CZ	CZ_RB_1000	Danube	RBD	2009	552	Biochemical Qxygen Demand	PT	both	1596
CZ	CZ_RB_5000	Elbe	RBD	2009	552	Biochemical Qxygen Demand	PT	both	4703
CZ	CZ_RB_6000	Oder	RBD	2009	552	Biochemical Qxygen Demand	PT	both	895
CZ	CZ_RB_1000	Danube	RBD	2009	553	Chemical Oxygen Demand	PT	both	8381
CZ	CZ_RB_5000	Elbe	RBD	2009	553	Chemical Oxygen Demand	PT	both	28378
CZ	CZ_RB_6000	Oder	RBD	2009	553	Chemical Oxygen Demand	PT	both	7584
CZ	CZ_RB_1000	Danube	RBD	2009	551	Total Phosphorus	PT	both	232
CZ	CZ_RB_5000	Elbe	RBD	2009	551	Total Phosphorus	PT	both	793
CZ	CZ_RB_6000	Oder	RBD	2009	551	Total Phosphorus	PT	both	131



## Structure of emission reporting harmonised with Water quality and WFD reporting – for example:

- **List of pollutants**
- **Emission sources (as WFD pressures, including definitions)**

# Brief overview of reported emission data

- **Most frequently reported pollutants;**
- **Comparison between period 2000 – 2011 and 2012 – 2018;**
- **Overview of point and diffuse sources reporting – period 2012 - 2018.**

# Most frequently reported pollutants

BOD ( <b>BOD</b> <sub>5</sub> or BOD <sub>7</sub> )
COD ( <b>COD</b> <sub>Cr</sub> or COD <sub>Mn</sub> )
TOC
N <sub>tot</sub>
P <sub>tot</sub>
As
Cd
Ni
Cu
Pb
Hg
Zn
Cr

<https://www.eionet.europa.eu/etcs/etc-icm/products/etc-icm-reports/emissions-of-pollutants-to-europe2019s-waters-2013-analysis-of-data-reported-under-european-data-flows>



## Comparison between period 2000 – 2011 and 2012 – 2018 (point and/or diffuse sources)

Country code	Period 2000 - 2011	Period 2012 - 2018
AT	yes	yes
BE	yes, not the whole country	yes
BG	yes, at water body level	yes
CH	yes	yes
CY	no	yes (E-PRTR only)
CZ	yes	yes
DE	no	yes (E-PRTR only)
DK	no	yes
EE	yes	yes
EL	no	yes (E-PRTR only)
ES	no	yes (E-PRTR only)
FI	yes	yes
FR	yes	yes
HR	no	yes (E-PRTR only)
HU	no	yes ending 2013 then E-PRTR only
IE	no	yes (E-PRTR only)

<https://www.eionet.europa.eu/etc/etcs-icm/products/etc-icm-reports/emissions-of-pollutants-to-europe2019s-waters-2013-analysis-of-data-reported-under-european-data-flows>

## Comparison between period 2000 – 2011 and 2012 – 2018 (point and/or diffuse sources)

Country code	Period 2000 - 2011	Period 2012 - 2018
IS	yes	yes
IT	no	yes
LI	no	no
LT	yes	yes
LU	no	yes (E-PRTR only)
LV	yes	yes
MK	yes	yes
MT	no	yes (E-PRTR only)
NL	yes	yes
NO	no	yes
PL	no	yes (E-PRTR only)
PT	no	yes (E-PRTR only)
RO	yes	yes
RS	no	yes (E-PRTR only)
SE	yes	yes
SI	yes	yes
SK	yes	yes
UK	no	yes
XK	no	yes

<https://www.eionet.europa.eu/etcs/etc-icm/products/etc-icm-reports/emissions-of-pollutants-to-europe2019s-waters-2013-analysis-of-data-reported-under-european-data-flows>



# Overview of point sources reporting – period 2012 - 2018

pollutant	No of Countries	Urban (No of records)	Urban untreated (No of records)	Urban treated (No of records)	Industrial (No of records)	Other (No of records)	Total (PT) (No of records)
BOD	15+5	243	313	1 588	2 013	1 149	105
COD <sub>Cr</sub>	17	232	251	1 468	1 947	1 213	106
TOC	31	35	15	606	1 315	653	4
N <sub>tot</sub>	34	303	309	2 444	2 262	1 293	109
P <sub>tot</sub>	33	290	314	2 430	2 312	1 226	121
As	29	43	52	479	552	151	30
Cd	28	141	103	940	1 677	718	76
Ni	32	144	104	1 196	1 881	687	78
Cu	32	157	95	896	1 098	262	71
Pb	33	138	101	911	1 710	767	80
Hg	31	133	101	853	1 524	625	68
Zn	33	150	99	924	1 216	275	78
Cr	31	106	54	544	533	184	53

Other: mainly Waste disposal sites

<https://www.eea.europa.eu/data-and-maps/data/waterbase-emissions-8>



## Overview of diffuse sources reporting – period 2012 - 2018

pollutant	No of Countries	Agriculture (No of records)	Atm. deposition (No of records)	Un-connected Dwellings (No of records)	Urban run-off (No of records)	Storm Overflow (No of records)	Other (No of records)	Total (NP) (No of records)
BOD	2+1	3		41		42	5	1
COD <sub>Cr</sub>	2			38		42	2	
TOC	2			30			30	69
N <sub>tot</sub>	14	346	211	171	202	64	351	163
P <sub>tot</sub>	13	310	86	172	201	64	356	169
As	3	6	38	50		50	68	2
Cd	4	41	61	69	10	59	106	9
Ni	4	36	44	64	5	59	106	8
Cu	4	29	49	61	10	51	74	13
Pb	4	36	56	62	5	59	106	12
Hg	4	28	61	69	10	59	64	5
Zn	4	33	53	65	10	59	86	13
Cr	3	11	39	55		59	81	3

<https://www.eea.europa.eu/data-and-maps/data/waterbase-emissions-8>



# Overview of point and diffuse sources reporting – period 2012 - 2018

pollutant	Point		Diffuse	
	No of Countries	No of records (total)	No of Countries	No of records (total)
BOD	15+5	5411	2+1	91
COD <sub>Cr</sub>	17	5217	2	82
TOC	31	2628	2	60
N <sub>tot</sub>	34	6720	14	1345
P <sub>tot</sub>	33	6693	13	1189
As	29	1307	3	212
Cd	28	3655	4	346
Ni	32	4090	4	314
Cu	32	2579	4	274
Pb	33	3707	4	324
Hg	31	3304	4	291
Zn	33	2742	4	306
Cr	31	1474	3	245

Other: mainly Background and Other diffuse emissions

<https://www.eea.europa.eu/data-and-maps/data/waterbase-emissions-8>

## E-PRTR data

- No need to report data reported under E-PRTR again to WISE-1.
- ETC/EEA can incorporate data reported to EEA under E-PRTR: we prefer this route to avoid “E-PRTR data” reported under WISE-1 being inconsistent with those reported directly
- In 2019, we asked reporters not to use the “yes” option in sending data already reported through E-PRTR.
- Thanks for following this (only 4 countries used the “yes” option).

# How to report in 2020 datacall?

## Only one change:

- Point sources – removed option „E-PRTR – yes“

## What you can report:

- Point sources – „no“ (emissions from non E-PRTR facilities = emissions not reported under E-PRTR) or/and
- Point sources – „both“ (all emissions)

## What about E-PRTR emissions?

- Emissions, reported under E-PRTR will be aggregated from facilities to RBD and added to database by ETC and EEA