

# Hazardous Substances in Water

## A complementary ETC/ICM background report to the EEA Technical Report No. 8/2011 - Hazardous Substances in Europe's Fresh and Marine Waters

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## **Abbreviations**

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2.3.2	Occurrence and concentrations of hazardous substances	<b>Chyba! Záložka není definována.</b>

# 1 Overview of available SoE freshwater data, data quality, temporal and spatial coverage

SoE data collection for the EEA has been supported by the ETC/ICM within the Eionet network. Reported national datasets are stored in working databases run by the ETC/ICM. Hazardous substances SoE data have not been previously used for an assessment of the current status of the chemical pollution of Europe's waters except for the agri-environmental indicator (IRENA).

This chapter shortly describes the status of the data available to the EEA through the voluntary reporting of SoE data. SoE datasets are not temporally and spatially homogenous, there are gaps in the time series, the countries report various sets of hazardous substances data, with various limits of detection (LOD) or quantification (LOQ) that change over the time and LOD/LOQ may differ by order of magnitude depending on the reporting country. Some very extreme values were discovered in working databases during the processing of the data for this report, the feedback to this report from countries should help to clean up the databases.

There are more than 85 000 reported values for selected hazardous substances (see Table 2.1.1 for list of substances) in more than 300 lake stations for the 1999-2009 period available in the SoE database. There are more than 2 000 000 reported values for selected hazardous substances (see Table 2.2.1 for list of substances) in more than 2 000 river stations for the 1999-2009 period available in the SoE database. There are more than 2 000 000 reported values for selected hazardous substances (see Table 2.3.1 for list of substances) in more than 6 000 groundwater stations for the 1999-2009 period available in the SoE database. Generally speaking most complete datasets are available for metals, followed by pesticides. The number of reported values significantly increased over the 1999-2009 period, recently the SoE databases were updated with a considerable amount of data, predominantly for recent years.

## 1.1 Lakes

Table 1.1.1 Temporal availability of SoE data for selected hazardous substances in the 1999-2009 period

Substance	No. of years	Period
1,1,2,2-tetrachloroethene	3	2007-2009
1,2-Dichloroethane	8	1999-2009
4-Nonylphenol	3	2006-2009
Alachlor	10	1999-2009
Aldrin	10	1999-2009
Anthracene	5	2003-2009
Atrazine	11	1999-2009
Benzene	6	1999-2009
Benzo(a)pyrene	4	2006-2009
Benzo(b)fluoranthene	4	2006-2009
Benzo(g,h,i)perylene	6	2003-2009
Benzo(k)fluoranthene	6	2003-2009
Cadmium	11	1999-2009
DDD, p,p'	10	1999-2009
DDE, p,p'	11	1999-2009
DDT, o,p'	10	1999-2009
DDT, p,p'	11	1999-2009
Di (2-ethylhexyl) phthalate (DEHP)	4	2006-2009
Dieldrin	10	1999-2009
Dichloromethane	4	2006-2009
Diuron	10	1999-2009
Endrin	11	1999-2009
Fluoranthene	4	2006-2009
Gamma-HCH (Lindane)	11	1999-2009
Hexachlorobenzene (HCB)	10	1999-2009
Hexachlorobutadiene (HCBD)	10	1999-2009
Chlorfenvinphos	4	2006-2009
Chlorpyrifos	6	2003-2009
Indeno(1,2,3-cd)pyrene	6	2003-2009
Isodrin	10	1999-2009
Isoproturon	7	2001-2009
Lead	11	1999-2009
Mercury	11	1999-2009
Naphthalene	3	2007-2009
Nickel	11	1999-2009
Para-tert-octylphenol	3	2007-2009
Pentachlorobenzene	3	2007-2009
Pentachlorophenol	10	1999-2009
Simazine	11	1999-2009
Tributyltin cation	1	2008-2008
Trifluralin	11	1999-2009
Trichloromethane	6	2003-2009

Table 1.1.2 No. of years with available data for countries within the 1999-2009 period

Substance	BA	BE	BG	CY	EE	FI	FR	GB	HR	HU	CH	IE	IS	IT	LT	LV	NL	NO	PT	RO	RS	SE	SI	SK
1,1,2,2-tetrachloroethene		1		1					1					3			3							1
1,2-Dichloroethane		3		4				4	1			1		3			3							1
4-Nonylphenol		1				1	1										1							1
Alachlor		2		10		1	1		1					4			3						1	1
Aldrin		1		7		1	1	8	1					4	1		3		1		3			1
Anthracene		1		2			1	1	1					4			3							1
Atrazine		2		8		1	3	8	2	5	6			3	1		3				3		1	1
Benzene		3		4			1	3	1	1		1		4			3							1
Benzo(a)pyrene		1		2			1	4	1					4			3		2		1			1
Benzo(b)fluoranthene		1		2			1	4	1					4			3		2		1			1
Benzo(g,h,i)perylene		1		2			1	6	1					4			3				1			1
Benzo(k)fluoranthene		1		2			1	6	1					4			3				1			1
Cadmium	2	4	3	8	9	10	1	11	6	8	1	1	2	5	1	6	3	6	2	1	3	11	1	1
DDD, p,p'		1		2		1		5	4	1				3			3				3			1
DDE, p,p'		1		2		1		8	4	1				3			3				2			1
DDT, o,p'		1		1		1		8		1				1			3				3			1
DDT, p,p'		1		2		1		9	4	1				3	1		3				3			1
Di (2-ethylhexyl) phthalate (DEHP)				3		1											3							1
Dieldrin		1		7		1	1	10	1	1				4	1		3		1		3			1
Dichloromethane		3		2					1			1		3			3							1
Diuron		2		6		1	2	5	1		5			4			3							1
Endrin		1		7		1	1	8	4	1				4	1		3		1		3			1
Fluoranthene		1		2			1	4	1					3			3				1			1
Gamma-HCH (Lindane)		2				1	1	11	4	5				3	1		3		2		3			1
Hexachlorobenzene (HCB)		1		7		1		8	1					3			3				3			1
Hexachlorobutadiene (HCBD)				4		1		8	1			1		3			3							1
Chlorfenvinphos				2		1	1	2	1					3			3						1	1
Chlorpyrifos		2		2		1	1	4	1					4			3						1	1
Indeno(1,2,3-cd)pyrene		1		2			1	6	1					4			3		2		1			1
Isodrin		1				1	1	8	1					4			3		1					1
Isoproturon		2		2		1	1	5	1		2			4			3							1
Lead	1	4	5	8	8	10	1	11	6	8	3	1	2	5	1	6	3	6	2	1	3	11	1	1
Mercury	3	3		7	9	10	1	10	6	8	2	1	1	5	1	3	3		2	1	4	4	1	1
Naphthalene		1		1			1		1					3			3							1
Nickel	2	4	4	8		10	1	11	6	8	3	1	2	5	1	4	3	6		1	3	11	1	1
Para-tert-octylphenol		1					1										3							1
Pentachlorobenzene		1				1			1					2			3							1
Pentachlorophenol		1						8	1					3			3							1
Simazine		2		8		1	1	8	2		5			3	1		3				3		1	1
Tributyltin cation																								1
Trifluralin		2		2		1	1	8			5			4			3						1	1
Trichloromethane		3		2			1	4	1			1		3			3							1

Table 1.1.3 No. of years with available data for countries within the 2008-2009 period

Substance	BA	BE	BG	CY	EE	FI	FR	GB	HR	IS	IT	LT	LV	NL	NO	RS	SE	SI	SK
1,1,2,2-tetrachloroethene		1		1					1		2			2					1
1,2-Dichloroethane		1		2					1		2			2					1
4-Nonylphenol		1					1							1					1
Alachlor		1		2		1	1		1		2			2				1	1
Aldrin		1		2		1	1		1		2	1		2		1			1
Anthracene		1		2			1		1		2			2					1
Atrazine		1		2		1	1		2		2	1		2		1		1	1
Benzene		1		2			1	1	1		2			2					1
Benzo(a)pyrene		1		2			1	2	1		2			2		1			1
Benzo(b)fluoranthene		1		2			1	2	1		2			2		1			1
Benzo(g,h,i)perylene		1		2			1	2	1		2			2		1			1
Benzo(k)fluoranthene		1		2			1	2	1		2			2		1			1
Cadmium	1	2		2	2	2	1	2	2	2	2	1	1	2	1	2	2	1	
DDD, p,p'		1		2		1			1		1			2		1			1
DDE, p,p'		1		2		1			1		1			2					1
DDT, o,p'		1		1		1								2		1			1
DDT, p,p'		1		2		1			1		1	1		2		1			
Di (2-ethylhexyl) phthalate (DEHP)				2										2					1
Dieldrin		1		2		1	1	2	1		2	1		2		1			1
Dichloromethane		1		2					1		2			2					1
Diuron		1		2		1	1	1	1		2			2					1
Endrin		1		2		1	1		1		2	1		2		1			1
Fluoranthene		1		2			1	2	1		2			2		1			1
Gamma-HCH (Lindane)		1				1	1	2	1		2	1		2		1			
Hexachlorobenzene (HCB)		1		2		1			1		2			2		1			1
Hexachlorobutadiene (HCBd)				2		1			1		2			2					1
Chlorfenvinphos				2		1	1		1		2			2				1	
Chlorpyrifos		1		2		1	1		1		2			2				1	1
Indeno(1,2,3-cd)pyrene		1		2			1	2	1		2			2		1			1
Isodrin		1				1	1		1		2			2					1
Isoproturon		1		2		1	1	1	1		2			2					1
Lead	1	2	2	2	1	2	1	2	2	2	2	1	1	2	1	2	2	1	
Mercury	1	1		2	2	2	1	2	2	1	2	1		2		2	2	1	
Naphthalene		1		1			1		1		2			2					1
Nickel	1	2	2	2		2	1	2	2	2	2	1	1	2	1	2	2	1	
Para-tert-octylphenol		1					1							2					1
Pentachlorobenzene		1				1			1		2			2					1
Pentachlorophenol		1							1		2			2					1
Simazine		1		2		1	1		2		2	1		2		1		1	1
Tributyltin cation																			1
Trifluralin		1		2		1	1				2			2				1	1
Trichloromethane		1		2			1		1		2			2					1

Table 1.1.4 Available samples within the 1999-2009 period

Substance	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Total
1,1,2,2-tetrachloroethene									225	669	370	<b>1264</b>
1,2-dichloroethane	40	12			22	12		40	620	1474	858	<b>3078</b>
4-nonylphenol								8		276	76	<b>360</b>
Alachlor	10		6	6	6	20	16	34	298	739	492	<b>1627</b>
Aldrin	23	8	14	18	57	32		158	353	959	494	<b>2116</b>
Anthracene					1			13	208	593	427	<b>1242</b>
Atrazine	19	12	17	30	75	43	13	120	463	993	492	<b>2277</b>
Benzene	19	6						40	354	672	506	<b>1597</b>
Benzo(a)pyrene								60	246	791	414	<b>1511</b>
Benzo(b)fluoranthene								50	246	791	410	<b>1497</b>
Benzo(g,h,i)perylene					60	22		35	229	791	414	<b>1551</b>
Benzo(k)fluoranthene					66	22		35	201	791	410	<b>1525</b>
Cadmium	189	325	357	358	540	579	396	936	1396	1731	1390	<b>8197</b>
DDD, p,p'	14	8	8	12	5		5	87	274	720	304	<b>1437</b>
DDE, p,p'	12	8	8	12	28	23	5	116	298	504	304	<b>1318</b>
DDT, o,p'	14	8	8	12	26	23		107	290	995	225	<b>1708</b>
DDT, p,p'	12	8	8	12	47	23	6	143	341	514	304	<b>1418</b>
Di (2-ethylhexyl) phthalate (DEHP)								16	172	497	242	<b>927</b>
Dieldrin	23	8	14	18	110	45		156	438	960	495	<b>2267</b>
Dichloromethane								12	176	607	410	<b>1205</b>
Diuron	1		2	6	76	42	2	38	249	584	414	<b>1414</b>
Endrin	23	8	14	18	57	33	5	152	426	959	448	<b>2143</b>
Fluoranthene								22	228	797	431	<b>1478</b>
Gamma-HCH (Lindane)	15	8	8	12	11	6	18	152	367	602	367	<b>1566</b>
Hexachlorobenzene (HCB)	25	6	12	18	53	31		120	348	921	420	<b>1954</b>
Hexachlorobutadiene (HCBD)	29	14	8	12	28	25		26	322	733	453	<b>1650</b>
Chlorfenvinphos								39	246	354	413	<b>1052</b>
Chlorpyrifos					42	25		31	268	703	489	<b>1558</b>
Indeno(1,2,3-cd)pyrene					57	22		60	245	791	415	<b>1590</b>
Isodrin	14	8	8	12	28	28		67	268	640	438	<b>1511</b>
Isoproturon			2		23	26		28	229	571	414	<b>1293</b>
Lead	189	325	355	353	461	584	412	953	1511	1587	1928	<b>8658</b>
Mercury	106	86	28	122	207	180	89	598	1029	1563	1205	<b>5213</b>
Naphthalene									223	490	413	<b>1126</b>
Nickel	189	360	387	395	537	612	433	962	1441	1640	1914	<b>8870</b>
Para-tert-octylphenol									129	433	202	<b>764</b>
Pentachlorobenzene									159	537	334	<b>1030</b>
Pentachlorophenol	6	8	5	10	48	22		26	215	571	369	<b>1280</b>
Simazine	18	12	15	19	55	38	2	120	392	967	491	<b>2129</b>
Tributyltin cation										276		<b>276</b>
Trifluralin	8	8	11	10	28	28	1	41	298	714	452	<b>1599</b>
Trichloromethane					11	6		19	312	733	480	<b>1561</b>
<b>Total</b>	<b>998</b>	<b>1246</b>	<b>1295</b>	<b>1465</b>	<b>2765</b>	<b>2552</b>	<b>1403</b>	<b>5620</b>	<b>15733</b>	<b>33233</b>	<b>21527</b>	<b>87837</b>



Table 1.1.5 Available samples for countries within the 1999-2009 period

Substance	BA	BE	BG	CY	EE	FI	FR	GB	HR	HU	CH	IE	IS	IT	LT	LV	NL	NO	PT	RO	RS	SE	SI	SK	
1,1,2,2-tetrachloroethene		4		44					36					427			477							276	
1,2-dichloroethane			42	224				62	72			112		1060			954							552	
4-nonylphenol		3				8	49										24							276	
Alachlor		13		172		4	34		36					496			571						25	276	
Aldrin		4		121		4	34	181	36					477	32		560		19		372			276	
Anthracene		4		86				34	1	36				225			580							276	
Atrazine		13		117		4	54	176	37	96	22			482	32		571				372		25	276	
Benzene		21		111			34	48	36	82		56		463			470							276	
Benzo(a)pyrene		4		46			34	44	36					246			580		42		203			276	
Benzo(b)fluoranthene		4		46			34	44	36					233			580		41		203			276	
Benzo(g,h,i)perylene		4		46			34	126	36					246			580				203			276	
Benzo(k)fluoranthene		4		46			34	132	36					214			580				203			276	
Cadmium	61	166	51	143	47	689	42	883	97	752	1	131	8	1434	33	44	873	188	43	4	945	1544	12	6	
DDD, p,p'		4		86		4		47	46	23				28			551				372			276	
DDE, p,p'		4		86		4		141	46	23				31			551				156			276	
DDT, o,p'		4		43		4		140		32				1			560				372			552	
DDT, p,p'		4		86		4		170	46	63				81	32		560				372			276	
Di (2-ethylhexyl) phthalate (DEHP)				115		16											520							276	
Dieldrin		4		121		4	34	275	36	73				477	32		560			3	372			276	
Dichloromethane		21		56					36				42	324			450							276	
Diuron		13		20		4	43	181	36		15			278			548							276	
Endrin		4		121		4	34	182	46	72				472	32		514			14	372			276	
Fluoranthene		4		86			34	44	36					216			579				203			276	
Gamma-HCH (Lindane)		18				4	34	134	46	53				278	32		560			35	372			276	
Hexachlorobenzene (HCB)		4		119		4		174	36					409			560				372			276	
Hexachlorobutadiene (HCBD)				112		4		141	36				56	465			560							276	
Chlorfenvinphos				64		4	50	62	36					221			590						25	276	
Chlorpyrifos		13		64		4	16	117	36					418			589						25	276	
Indeno(1,2,3-cd)pyrene		4		46			34	122	36					246			581			42	203			276	
Isodrin		4				4	34	163	36					420			560			14				276	
Isoproturon		13		10		4	34	119	36					250			548							276	
Lead	25	167	146	145	43	662	50	891	187	745	8	132	8	1760	33	42	1074	190	43	5	730	1542	12	18	
Mercury	103	95		123	47	375	37	415	96	649	7	21	4	1393	33	19	771			40	1	935	16	24	9
Naphthalene		4		44			34		36				56	137			539							276	
Nickel	92	167	74	159		1027	50	872	185	752	8	104	8	1747	33	30	1074	186		5	729	1544	12	12	
Para-tert-octylphenol		3					15										470							276	
Pentachlorobenzene		4				4			36					150			560							276	
Pentachlorophenol		3						148	36					320			497							276	
Simazine		13		121		4	34	176	37			13		455	32		571				372		25	276	
Tributyltin cation																								276	
Trifluralin		18		64		4	34	138				15		459			566						25	276	
Trichloromethane		21		86			34	30	36				56	546			476							276	

Table 1.1.6 Available stations with data within the 1999-2009 period

Substance	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
1,1,2,2-tetrachloroethene									35	73	41
1,2-dichloroethane	6	6			11	6		9	75	93	56
4-nonylphenol								1		23	17
Alachlor	6		6	6	6	6	6	15	47	86	71
Aldrin	8	2	8	8	23	14		117	117	158	66
Anthracene					1			10	19	62	52
Atrazine	9	3	9	10	23	15	2	82	135	167	71
Benzene	6	6						19	63	86	72
Benzo(a)pyrene								56	57	131	54
Benzo(b)fluoranthene								47	57	131	53
Benzo(g,h,i)perylene					34	21		31	40	131	54
Benzo(k)fluoranthene					38	21		31	35	131	53
Cadmium	61	144	120	121	176	247	173	375	330	324	285
DDD, p,p'	2	2	2	2	2		2	76	95	119	30
DDE, p,p'	2	2	2	2	8	6	2	84	101	47	30
DDT, o,p'	2	2	2	2	8	6		81	95	117	19
DDT, p,p'	2	2	2	2	13	6	3	90	108	110	30
Di (2-ethylhexyl) phthalate (DEHP)								2	21	46	24
Dieldrin	8	2	8	8	48	27		114	142	159	67
Dichloromethane								1	40	83	52
Diuron	1		1	3	18	16	1	11	30	68	59
Endrin	8	2	8	8	23	14	2	111	131	158	66
Fluoranthene								21	39	131	54
Gamma-HCH (Lindane)	3	2	2	2	3	2	5	122	130	128	44
Hexachlorobenzene (HCB)	8	2	8	8	19	13		83	113	154	50
Hexachlorobutadiene (HCBd)	8	8	2	2	8	7		7	64	89	54
Chlorfenvinphos								9	34	47	62
Chlorpyrifos					11	7		9	40	80	66
Indeno(1,2,3-cd)pyrene					35	21		56	56	131	54
Isodrin	2	2	2	2	10	9		36	45	64	55
Isoproturon			1		6	8		8	25	66	59
Lead	61	144	120	119	153	251	174	381	340	335	297
Mercury	10	17	8	26	51	43	34	241	192	225	181
Naphthalene									39	42	51
Nickel	61	146	119	117	158	239	172	329	298	325	294
Para-tert-octylphenol									13	37	21
Pentachlorobenzene									13	50	33
Pentachlorophenol	2	2	2	2	13	6		7	30	62	44
Simazine	8	3	9	9	20	14	1	82	123	163	70
Tributyltin cation										23	
Trifluralin	2	2	3	3	9	8	1	12	46	80	67
Trichloromethane					11	6		8	75	92	65

Table 1.1.7 Available stations with data for countries within the 1999-2009 period

Substance	BA	BE	BG	CY	EE	FI	FR	GB	HR	HU	CH	IE	IS	IT	LT	LV	NL	NO	PT	RO	RS	SE	SI	SK
1,1,2,2-tetrachloroethene		1		8					3					38			15							23
1,2-dichloroethane		1		8				11	3			22		50			15							23
4-nonylphenol		1				1	14										2							23
Alachlor		1		8		1	10		3					40			16						5	23
Aldrin		1		8		1	10	17	3					33	8		17		19		73			23
Anthracene		1		8			10	1	3					17			17							23
Atrazine		1		8		1	10	14	3	13	1			40	8		16				73		5	23
Benzene		1		8			10	15	3	11		22		43			15							23
Benzo(a)pyrene		1		8			10	21	3					17			17		25		68			23
Benzo(b)fluoranthene		1		8			10	21	3					17			17		24		68			23
Benzo(g,h,i)perylene		1		8			10	34	3					17			17				68			23
Benzo(k)fluoranthene		1		8			10	38	3					17			17				68			23
Cadmium	4	5	12	8	8	13	12	52	5	16	1	35	1	90	8	4	18	88	28	4	75	96	3	1
DDD, p,p'		1		8		1		2	3	7				4			17				73			23
DDE, p,p'		1		8		1		8	3	7				4			17				73			23
DDT, o,p'		1		8		1		8		6				1			17				73			23
DDT, p,p'		1		8		1		13	3	13				8	8		17				73			23
Di (2-ethylhexyl) phthalate (DEHP)				8		2											16							23
Dieldrin		1		8		1	10	42	3	13				33	8		17		3		73			23
Dichloromethane		1		8					3			16		40			15							23
Diuron		1		8		1	10	15	3		1			23			16							23
Endrin		1		8		1	10	17	3	13				33	8		17		14		73			23
Fluoranthene		1		8			10	21	3					17			17				68			23
Gamma-HCH (Lindane)		2				1	10	22	3	7				33	8		17		26		73			23
Hexachlorobenzene (HCB)		1		8			1	13	3					37			17				73			23
Hexachlorobutadiene (HCBD)				8		1		8	3			22		44			17							23
Chlorfenvinphos				8		1	14	9	3					24			18						5	23
Chlorpyrifos		1		8		1	4	11	3					34			18						5	23
Indeno(1,2,3-cd)pyrene		1		8			10	35	3					17			17		25		68			23
Isodrin		1				1	10	11	3					27			17		14					23
Isoproturon		1		8		1	10	7	3		1			21			16							23
Lead	3	5	12	8	8	13	14	38	6	16	4	35	1	98	8	4	18	88	29	5	75	96	3	3
Mercury	8	4		8	8	13	12	28	5	16	4	11	1	86	8	2	18		26	1	75	1	4	2
Naphthalene		1		8			10		3			22		12			17							23
Nickel	8	5	6	8		15	14	34	6	16	4	32	1	95	8	4	18	88		5	75	96	3	2
Para-tert-octylphenol		1					4										16							23
Pentachlorobenzene		1				1			3					13			17							23
Pentachlorophenol		1						13	3					25			16							23
Simazine		1		8		1	10	14	3		1			36	8		16				73		5	23
Tributyltin cation																								23
Trifluralin		2		8		1	10	9			1			34			16						5	23
Trichloromethane		1		8			10	11	3			22		49			15							23

## 1.2 Rivers

Table 1.2.1 Temporal availability of SoE data for selected hazardous substances in the 1999-2009 period

Substance	No. of years	Period
1,1,2,2-tetrachloroethene	11	1999-2009
1,2-dichloroethane	11	1999-2009
4-nonylphenol	7	2003-2009
Alachlor	11	1999-2009
Aldrin	11	1999-2009
Anthracene	11	1999-2009
Atrazine	11	1999-2009
Benzene	11	1999-2009
Benzo(a)pyrene	11	1999-2009
Benzo(b)fluoranthene	11	1999-2009
Benzo(g,h,i)perylene	11	1999-2009
Benzo(k)fluoranthene	11	1999-2009
Cadmium	11	1999-2009
DDD, p,p'	11	1999-2009
DDE, p,p'	11	1999-2009
DDT, o,p'	11	1999-2009
DDT, p,p'	11	1999-2009
Di (2-ethylhexyl) phthalate (DEHP)	7	2003-2009
Dieldrin	11	1999-2009
Dichloromethane	11	1999-2009
Diuron	11	1999-2009
Endosulfan	2	2006-2009
Endrin	11	1999-2009
Fluoranthene	11	1999-2009
gamma-HCH (Lindane)	11	1999-2009
Hexachlorobenzene (HCB)	11	1999-2009
Hexachlorobutadiene (HCBD)	11	1999-2009
Chlorfenvinphos	11	1999-2009
Chlorpyrifos	11	1999-2009
Indeno(1,2,3-cd)pyrene	11	1999-2009
Isodrin	11	1999-2009
Isoproturon	11	1999-2009
Lead	11	1999-2009
Mercury	11	1999-2009
Naphthalene	11	1999-2009
Nickel	11	1999-2009
Para-tert-octylphenol	7	2003-2009
Pentachlorobenzene	9	2001-2009
Pentachlorophenol	11	1999-2009
Simazine	11	1999-2009
Tributyltin cation	4	2005-2009
Trifluralin	11	1999-2009
Trichloromethane	11	1999-2009

Table 1.2.2 No. of years with available data for countries within the 1999-2009 period

Substance	AT	BA	BE	BG	CY	CZ	DE	EE	ES	FI	FR	GB	GR	HR	HU	CH	IE	IS	IT	LT	LU	LV	MK	NL	NO	PL	PT	RO	RS	SE	SI	SK			
1,1,2,2-tetrachloroethene			1		1		7		1		6	4						2	3	4	1			3		1						2	2		
1,2-dichloroethane	6					2	5	7		1		11	7							4	4	3			3		1						1	4	
4-nonylphenol			6							3	5	1						3			1													1	2
Alachlor	8	1	8			2	5			1	3	11			1				3	4		3			3		2	1	1	1	7	10	2		
Aldrin	3	1	9	1		2	5	7		1	3	11	11	3	1				3	4	5		4		3		2	1	1	4			10	4	
Anthracene	1	3	9			2		8		1	2	11	7		1				3	3	5	2	2		3		2	1	1				7	6	
Atrazine	9	3	9			2	5	8		1	3	11	11	3	7	9			3	4	5	4			3		2	1	1	4	8	10	6		
Benzene	2	1	9			2	5	7		1		11	7		1	1			2	4	5	3	2		3		2	1					7	4	
Benzo(a)pyrene	2	3	9			2	5	7		1	2	11	7		1			1	3	4	3	2	2		3		1	3	1	3			7	6	
Benzo(b)fluoranthene	2	3	9			2	5	7		1	2	11	7		1			1	3	4	3	2	2		3		1	3	1	3			7	6	
Benzo(g,h,i)perylene	2	2	9			2	5	7		1	2	11	7		1			1	3	4	3	2	2		3		1	1	1	3			7	6	
Benzo(k)fluoranthene	2	3	9			2	5	7		1	2	11	7		1			1	3	4	3	2	2		3		1	1	1	3			7	5	
Cadmium	9	7	9	5		2	5	8	1	1	10	11	11	3	7	9	11	4	2	4	11		10	11	6	6	2	4	4	2	9	10	6		
DDD, p,p'		1	1			2	5	7			2	11	2	3	7	1				2	4		4		3								7	4	
DDE, p,p'		1	1			2	5	7			2	11	3	2	7	1				1			2		3								1	1	
DDT, o,p'			1			1					3	11	4	1		1				2			4		1		2			3			2	3	
DDT, p,p'	1	1	9			2	5	7			3	10	4	2	7	9				2	10		4		3		2		1	4			8	4	
Di (2-ethylhexyl) phthalate (DEHP)	1	2	1			2				1	3	6	3					1		1	1	3			3								1	6	
Dieldrin	3	1	9	1		2	5	7			3	11	11	3	1	1			3	4	5		3		3		2	1		4			10	5	
Dichloromethane	4	1	7			2		7		1		11	4		1				2	4	5	3			3		2						5	2	
Diuron	2	2	9			1	4	8		1	3	11	10		1				3	4	1	4			3		2	1		1	8	1	5		
Endosulfan			1							1			2		1					1	1				1		1							1	1
Endrin	2		9	1		2	5	7			3	11	11	3	7	1			3	4	5		4		3		2	1	1	4			9	5	
Fluoranthene	2	3	9			2	5	7		1	2	11	4						3	3	4	3	2		3		2	1	1	3			7	6	
gamma-HCH (Lindane)	3	1	9				5	7			2	11	8	2	6	9				4	10	3	3		3	5	2	1	4	8	8	4			
Hexachlorobenzene (HCB)	3	1	9			2	5	7		1	2	11	8		1				3	4	1	3		3		1		1	4			10	4		
Hexachlorobutadiene (HCBD)	2		9			2	5	7		1	2	11	8		1				3	3	1	3			3		1						3	3	
Chlorfenvinphos			2	5		2				1	3	7	11		1				3	3	1	2			3		2	1		1	8	6	4		
Chlorpyrifos	1	2	9			2	5			1	3	6	5	1						4	1				3		1					1	8	1	5
Indeno(1,2,3-cd)pyrene	2	2	9			2	5	7			2	10	4		1				1	3	4	3	2		3		2	3	1	3			7	5	
Isodrin	2		9	1			5	7			3	10	11	1	1				3	4	1				3		2	1		1			1	5	
Isoproturon	2	1	9			1	4	8		1	3	10	7		1				3	4	1	2			3		1					1	8	1	3
Lead	9	7	9	6		2	5	5	1	1	10	10	11	3	7	9	11	4	1	4	11		10	11	6	6	2	4	4	2	9	10	6		
Mercury	9	4	9	1		2	5	8		1	10	10	11	3	1	9	1	4	2	4	11		5		5	5	2	4	4	2	9	10	6		
Naphthalene	1	2	6			1		7		1	2	10	3						2	3	1		2		1		1	1	1				4	5	
Nickel	9	7	9	6		2	5	5	1	1	10	10	11	3	7	9			4	4	11		7	11	6	6	2	1	4	2	9	10	6		
Para-tert-octylphenol			6								3	6	3						1	1					3		1							1	2
Pentachlorobenzene	2		8							1	3	7	2		1				3	3	1	1			3		2		1					1	4
Pentachlorophenol	2	2	8				7			1		10	11		1	6			3	4	11	3			3		2	1		1			9	2	
Simazine	9	1	9			2	5	8		1	3	10	11	2	1				3	4	5	4			3		2			4	8	10	7		
Tributyltin cation			1				2				3	1															1								1
Trifluralin	2		9			2	5	8		1	3	10	11						2	4	1				3		2			1	8	6	4		
Trichloromethane	6	1	9			2		7		1		6	7		1	5				3	5	1	2		3		2							7	4

Table 1.2.3 No. of years with available data for countries within the 2008-2009 period

Substance	AT	BA	BE	BG	CY	CZ	DE	EE	ES	FI	FR	GB	HR	CH	IE	IS	IT	LT	LU	LV	MK	NL	NO	PL	PT	RO	RS	SE	SI	SK	
1,1,2,2-tetrachloroethene			1		1				1		2	1					2	1				2		1						1	
1,2-dichloroethane			2		2	1			1		2	2					2	1	1			2		1						1	
4-nonylphenol			2							2	1	1			2			1												1	1
Alachlor	1	1	2		2	1			1	2	2		1		2		2		1			2		2	1	1	1	1	2	1	
Aldrin		1	2	1	2	1			1	2	2	2	1		2		2	2		2		2		2		1	2		2	1	
Anthracene		2	2		2	1		1	1	2	2	1			2		2	2		1		2		2	1	1			1	1	
Atrazine	1	2	2		2	1	1		1	2	2	2	2		2		2	2	2	2		2		2	1	1	2	1	2	1	
Benzene			2		2	1			1		2	2	1		1		2	2	1	1		2		2	1				1	1	
Benzo(a)pyrene		2	2		2	1			1	1	2	2	1		1		2	1	1	1		2		1	1	1			1	1	
Benzo(b)fluoranthene		2	2		2	1			1	1	2	2	1		1		2	1	1	1		2		1	1	1	1		1	1	
Benzo(g,h,i)perylene		1	2		2	1			1	1	2	2	1		1		2	1	1	1		2		1	1	1	1		1	1	
Benzo(k)fluoranthene		2	2		2	1				1	2	2	1		1		2	1	1	1		2		1	1	1	1		1	1	
Cadmium	2	2	2	1	2	1	1	1	1	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1
DDD, p,p'			1		2	1				1	2		2				1				2	2	2				2		1	1	
DDE, p,p'			1		2	1				1	2		2				1				2	2						1	1	1	
DDT, o,p'			1		1					2	2	1					1				2	1		2			1		2		
DDT, p,p'			2		2	1				2	2	1	2				1	1	1	2		2		2		1	2		1	1	
Di (2-ethylhexyl) phthalate (DEHP)	1	1			2				1	2	2	2			1		1	1	1		2		2						1	1	
Dieldrin		1	2	1	2	1				2	2	2	1		2		2	2		2		2		2			2		2	2	
Dichloromethane		1	2		2				1		2	2	1		1		2	2	1			2		2					1	1	
Diuron		1	2		1	1	1		1	2	2	2	1		2		2	1	2			2		2	1		1	1	1	2	
Endosulfan			1						1			1	1				1	1				1		1						1	
Endrin			2	1	2	1				2	2	2	2		2		2	2		2		2		2		1	2		2	2	
Fluoranthene		2	2		2	1			1	1	2	1			2		2	1	1	1		2		2	1	1	1		1	1	
gamma-HCH (Lindane)		1	2			1				1	2	1	1				2	1	1	2		2	1		1	1	2	1	1	1	
Hexachlorobenzene (HCB)			2		2	1			1	1	2	1	1		2		2	1	1	2		2		1		1	2		2	1	
Hexachlorobutadiene (HCBD)			2		2	1			1	1	2	1	1		2		2	1	1			2		1						2	
Chlorfenvinphos		1	1		2				1	2	2	2	1		2		2	1	2			2		2	1		1	1	2	1	
Chlorpyrifos		1	2		2	1			1	2	2						2	1				2		1			1	1	1	2	
Indeno(1,2,3-cd)pyrene		1	2		2	1				1	2	1	1		1		2	1	1	1		2		2	1	1	1		1	1	
Isodrin			2	1		1				2	2	2	1		2		2	1				2		2			1		1	2	
Isoproturon		1	2		1	1	1		1	2	2	2	1		2		2	1	2			2		1				1	1	2	
Lead	2	2	2	2	2	1		1	1	2	2	2	2	2	1	1	2	2		2	2	2	2	2	2	2	2	2	2	2	1
Mercury	2	2	2	1	2	1	1		1	2	2	2	1		1	2	2	2		2		2	1	2	2	2	2	2	2	1	
Naphthalene		2	1		1				1	1	2	2			1		2	1		1		1		1	1	1					
Nickel	2	2	2	2	2	1		1	1	2	2	2	2		1		2	2		2	2	2	2	2	2	2	2	2	2	1	
Para-tert-octylphenol			2							2	2	2			1		1					2		1						1	1
Pentachlorobenzene			2						1	2	2	2	1		2		2	1	1			2		2		1			1	1	
Pentachlorophenol		1	2						1		2	2	1		2		2	2	1			2		2	1		1		1	1	
Simazine	1		2		2	1	1		1	2	2	2	1		2		2	2	2			2		2			2	1	2	2	
Tributyltin cation			1								2													1						1	
Trifluralin			2		2	1	1		1	2	2	2			1		2	1				2		2			1	1	2	1	
Trichloromethane			2		2				1		2	2	1				2	2		1		2		2						1	

Table 1.2.4 Available samples within the 1999-2009 period

Substance	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Total
1,1,2,2-tetrachloroethene	1259	1262	1317	1246	1372	632	2076	3619	8669	6488	12302	<b>40242</b>
1,2-dichloroethane	1204	1334	1496	1618	2017	1455	2731	4685	9559	8110	12580	<b>46789</b>
4-nonylphenol					89	232	366	1531	3000	1072	7122	<b>13412</b>
Alachlor	130	365	2217	2617	3043	4991	2037	7056	8833	11400	17487	<b>60176</b>
Aldrin	547	746	1055	1353	1853	1571	2688	4318	7122	10453	17860	<b>49566</b>
Anthracene	274	368	678	472	829	275	1309	2380	7449	7318	15634	<b>36986</b>
Atrazine	1464	1852	3758	4179	4836	5684	7376	10338	10303	12127	17838	<b>79755</b>
Benzene	907	1123	1472	1625	1518	1410	2383	4163	8995	8091	14689	<b>46376</b>
Benzo(a)pyrene	332	544	960	763	1053	877	2004	3164	7493	7490	14658	<b>39338</b>
Benzo(b)fluoranthene	326	555	965	764	1034	875	1889	3163	7495	7414	14529	<b>39009</b>
Benzo(g,h,i)perylene	287	516	908	731	1007	879	2001	3127	7480	7344	15077	<b>39357</b>
Benzo(k)fluoranthene	326	554	966	788	979	877	1998	3120	7480	7259	14933	<b>39280</b>
Cadmium	5021	5646	7760	8513	8789	9748	11338	14241	21206	24081	21523	<b>137866</b>
DDD, p,p'	441	585	1078	1335	1390	1529	2124	2641	5245	5358	10383	<b>32109</b>
DDE, p,p'	446	575	861	865	1496	1638	2243	2413	4254	4791	10541	<b>30123</b>
DDT, o,p'	80	296	385	781	993	908	999	2197	3844	5525	10326	<b>26334</b>
DDT, p,p'	600	882	1328	1257	1034	1830	3079	3854	5744	7305	11360	<b>38273</b>
Di (2-ethylhexyl) phthalate (DEHP)					43	633	504	1617	2834	5004	10621	<b>21256</b>
Dieldrin	546	758	967	1442	2095	1854	2947	4546	7680	10488	17983	<b>51306</b>
Dichloromethane	1053	1141	1298	1489	1659	810	1866	3839	7027	6561	13909	<b>40652</b>
Diuron	1109	1504	1768	1741	2505	1751	2649	4444	6850	9291	17003	<b>50615</b>
Endosulfan								92			2911	<b>3003</b>
Endrin	494	741	992	1298	1849	1274	2376	4245	7783	10587	17835	<b>49474</b>
Fluoranthene	331	546	958	758	1017	879	1998	2866	7511	7779	14451	<b>39094</b>
gamma-HCH (Lindane)	1505	1807	2088	2006	2990	2416	4351	5880	8445	8904	15320	<b>55712</b>
Hexachlorobenzene (HCB)	754	1007	915	1113	1382	1042	2338	3535	7640	10062	16733	<b>46521</b>
Hexachlorobutadiene (HCBD)	896	985	1055	1051	1456	1091	2029	2779	9676	7143	14582	<b>42743</b>
Chlorfenvinphos	48	187	258	244	1067	908	1258	2890	5842	9279	16501	<b>38482</b>
Chlorpyrifos	21	127	157	137	142	1714	1687	3608	7896	9928	15715	<b>41132</b>
Indeno(1,2,3-cd)pyrene	326	558	967	761	716	877	1999	2938	7229	6220	14905	<b>37496</b>
Isodrin	268	452	617	519	518	1320	1988	3699	5511	9129	17395	<b>41416</b>
Isoproturon	993	1374	1709	1663	1266	1592	2469	4154	6780	9142	16840	<b>47982</b>
Lead	4952	5662	7634	8346	8399	9771	9164	11492	20748	20229	21890	<b>128287</b>
Mercury	3776	3944	6001	6877	6744	7706	9445	10541	17391	18660	18005	<b>109090</b>
Naphthalene	315	409	721	656	779	70	902	1948	6623	6054	14514	<b>32991</b>
Nickel	4678	5088	7423	8007	8275	9762	8992	12083	20867	20486	21431	<b>127092</b>
Para-tert-octylphenol					89	233	408	1539	2783	2834	10084	<b>17970</b>
Pentachlorobenzene			125	322	306	400	684	1859	5716	7290	15224	<b>31926</b>
Pentachlorophenol	380	302	589	840	1137	559	1602	2874	5683	7506	16147	<b>37619</b>
Simazine	1423	1819	3598	3782	3369	5494	7163	8884	9437	12044	17986	<b>74999</b>
Tributyltin cation							145	218		431	6330	<b>7124</b>
Trifluralin	909	1282	1517	1494	1088	1814	2599	4713	8776	10883	16164	<b>51239</b>
Trichloromethane	1321	1426	1578	1539	1776	1018	2312	4026	9721	6446	12852	<b>44015</b>
<b>Total</b>	<b>39742</b>	<b>48322</b>	<b>70139</b>	<b>74992</b>	<b>83999</b>	<b>90399</b>	<b>122516</b>	<b>187319</b>	<b>340620</b>	<b>374006</b>	<b>632173</b>	<b>2064227</b>





Table 1.2.5 Available samples for countries within the 1999-2009 period

Substance	AT	BA	BE	BG	CY	CZ	DE	EE	ES	FI	FR	GB	GR	HR	HU	CH	IE	IS	IT	LT	LU	LV	MK	NL	NO	PL	PT	RO	RS	SE	SI	SK		
1,1,2,2-tetrachloroethene			341		57		8288		575		21904	816							6228	790				440		185					2	616		
1,2-dichloroethane	537		1947			62	2586	7720		575		22330	1361					942	6213	790	18			439		409					67	793		
4-nonylphenol			1392								161	9295	22						1751		15										12	764		
Alachlor	11351	6	1956		78	2271			363	148	32152								1751		18			540		230	74	6	146	124	306	794		
Aldrin	197	3	1810	23	105	2226	2659		642	148	27332	3598	483	336					1751	4631	541		58		569	593	38	12	891		207	713		
Anthracene	190	37	2323		105		3204		462	75	22709	1208		217					1751	1235	907		65		582	767	22	28			201	898		
Atrazine	14892	97	2069		78	2268	8026		570	148	32183	2691	483	794	2461				1751	7706	548	36			540	172	80	36	891	135	301	799		
Benzene	507	12	2126		62	2585	5994		622		22671	1266		223	554				985	5684	935	18	43		437	700	6				143	803		
Benzo(a)pyrene	205	38	2391		25	2307	2546		473	74	23191	1569		217					672	2321	765	18	65		582	605	105	10	73		201	895		
Benzo(b)fluoranthene	205	38	2376		25	2189	2515		458	75	23094	1574		217					672	2287	765	18	65		581	555	103	24	73		201	899		
Benzo(g,h,i)perylene	205	23	2184		25	2306	2353		458	75	23781	1549		217					672	2300	765	18	65		581	535	55	19	73		201	897		
Benzo(k)fluoranthene	205	38	2382		25	2306	2524		458	75	23918	1580		217					672	2241	764	18	65		581	483	55	19	73		201	838		
Cadmium	14140	731	3445	1437	123	3379	18218	33	1365	5740	23250	14000	483	1628	11358	54	1134	20	16281	1820		1256	1717	1362	1595	1023	458	1579	254	7990	2102	891		
DDD, p,p		12	261		105	2464	2682			87	20885	177	483	945	265					758	522		58			563				891		182	769	
DDE, p,p		12	261		105	2466	2725			87	21040	759	209	946	308					22			48			563				147		4	421	
DDT, o,p			261		46					148	22838	735	274		98					143			58			181		447		744		12	349	
DDT, p,p	12	12	1628		105	2486	2894			148	22317	1305	209	1171	829					916	1306		58			569		383		40		892	191	802
Di (2-ethylhexyl) phthalate (DEHP)	362	17	163		105				15	205	17022	835							672	411	15	18			474							36	906	
Dieldrin	197	3	1812	23	105	2186	2482			148	28985	3784	483	336	507				1751	4438	541		55			569		632	40		891		211	1127
Dichloromethane	441	6	1718		60		7491		416		22123	504		256					771	4135	932	18			403		405					231	742	
Diuron	464	18	2047		21	730	6643		119	144	32384	1082		218					1751	2834	40	36				429		68	80		122	135	12	1238
Endosulfan			464						428			125		336						891	30					181		145					403	
Endrin	185		1812	23	105	1350	2457			148	27774	3542	483	1103	506				1751	4247	541		67		528		587	38	8	891		203	1125	
Fluoranthene	205	35	2350		105	2306	2495		462	75	22845	794							1751	2130	764	18	65		581		850	54	36	73		201	899	
gamma-HCH (Lindane)	209	8	1944			2465	5829			87	32497	1489	204	946	1710					3886	1306	18	55		568	197		79	65	892	135	256	867	
Hexachlorobenzene (HCB)	197	12	1813		105	2483	3892		591	87	26084	1459		263					1751	4364	505	18	55		569		309		12	891		242	819	
Hexachlorobutadiene (HCBd)	185		1551		106	2492	4750		512	87	23633	1009		255					1809	5052	16	18			569		293					28	378	
Chlorovinphos		17	677		78				265	148	28715	2006		258					1751	3185	40	36			512		62	3		142	135	266	186	
Chloropyrifos	364	17	1677		78	2073			363	148	27699	44	2							6495	40				512		37			146	135	40	1262	
Indeno(1,2,3-cd)pyrene	205	24	2381		25	2306	2508			75	23328	866		217					672	1458	763	18	65		581		769	104	14	73		201	843	
Isodrin	185		1812	23		2159	1133			145	25128	3007	2	305					1751	3408	40				569		437	38			147		8	1119
Isoproturon	464	6	2047		21	761	6576		123	144	30203	986		218					1751	2681	40	36			428		22			122	135	12	1206	
Lead	13903	390	3449	1915	115	3279	11557	34	1394	5739	22858	12647	483	1630	10959	55	1107	12	16033	1515		1263	1654	1352	1595	1035	334	1849	257	7962	1045	867		
Mercury	14105	571	2750	61	109	3031	17449		730	2444	22603	7084	483	118	10310	2	1093	20	14541	1290		374			1187	1379	1051	158	314	246	4001	961	625	
Naphthalene	190	18	1030		64		3201		564	75	22054	854							985	2476	168		65		181		490	24	48			35	469	
Nickel	13902	679	3412	1481	125	3498	11525	10	1358	5771	22200	13377	483	1654	11109				1104	16052	1514		497	1647	1353	1600	1080	3	1818	253	7892	1207	488	
Para-tert-octylphenol			1580							161	13729	452							672	164					454		20					12	726	
Pentachlorobenzene	185		1687						283	148	24442	362		220					1751	1077	37	18			569		307		24			4	812	
Pentachlorophenol	184	18	1808				2059		396		23345	2412		258	48				1751	2144	1452	18			460		335	3		96		292	540	
Simazine	14892	12	2069		78	2268	7823		513	148	30903	2553	209	252					1751	7623	548	36			540		165			891	135	301	1289	
Tributyltin cation			324				339				6048	19														10							384	
Trifluralin	185		1886		78	2114	4491		371	148	29423	2587							1079	6764	40				537		152			147	135	266	836	
Trichloromethane	549	12	2104		62		8771		575		21352	1737		277	187					5499	934		12		440		602					213	689	

Table 1.2.6 Available stations with data within the 1999-2009 period

Substance	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
1,1,2,2-tetrachloroethene	103	114	130	96	112	81	213	360	800	755	1187
1,2-dichloroethane	111	134	160	154	196	143	275	468	920	968	1195
4-nonylphenol					15	30	47	125	285	93	647
Alachlor	32	65	209	233	302	476	218	735	905	1419	1677
Aldrin	75	102	145	202	221	191	305	572	792	1389	1757
Anthracene	43	63	134	80	109	58	185	207	704	935	1518
Atrazine	162	209	360	428	484	570	693	1080	1191	1569	1758
Benzene	84	128	171	153	140	146	274	436	912	983	1455
Benzo(a)pyrene	51	82	153	81	130	126	260	328	680	951	1472
Benzo(b)fluoranthene	50	88	153	81	124	126	260	327	680	942	1471
Benzo(g,h,i)perylene	44	85	150	80	124	126	259	312	668	930	1479
Benzo(k)fluoranthene	50	85	153	90	106	126	255	309	668	905	1358
Cadmium	404	436	596	730	786	976	968	1384	2198	2437	2072
DDD, p,p'	64	64	150	199	186	209	223	348	610	820	1000
DDE, p,p'	57	55	88	78	173	180	206	275	406	705	1008
DDT, o,p'	17	31	39	116	105	101	108	294	406	750	929
DDT, p,p'	104	128	193	173	160	248	345	475	678	955	1118
Di (2-ethylhexyl) phthalate (DEHP)					18	76	70	156	273	701	985
Dieldrin	75	103	138	207	235	212	325	570	877	1394	1643
Dichloromethane	97	118	151	146	173	96	216	395	650	785	1338
Diuron	119	149	176	171	224	180	253	500	675	1148	1576
Endosulfan								20			399
Endrin	71	100	144	195	220	168	290	547	902	1414	1642
Fluoranthene	51	88	153	80	127	126	260	281	686	957	1516
gamma-HCH (Lindane)	189	203	264	235	351	314	444	684	888	1187	1350
Hexachlorobenzene (HCB)	93	121	113	133	157	137	268	414	831	1256	1626
Hexachlorobutadiene (HCBd)	74	102	130	118	139	116	200	271	899	841	1364
Chlorfenvinphos	8	25	29	31	128	118	151	351	655	1200	1619
Chlorpyrifos	2	16	19	19	20	159	164	394	773	1218	1533
Indeno(1,2,3-cd)pyrene	50	90	153	82	77	126	259	303	655	828	1389
Isodrin	33	63	105	86	62	136	201	440	563	1152	1583
Isoproturon	105	141	173	167	111	161	227	471	648	1115	1569
Lead	402	431	586	702	726	965	859	1226	2173	2216	2108
Mercury	285	298	474	568	565	704	813	986	1919	1941	1762
Naphthalene	46	72	132	92	87	24	113	177	626	795	1433
Nickel	364	396	569	674	715	946	855	1179	2134	2177	2071
Para-tert-octylphenol					15	30	57	129	248	417	886
Pentachlorobenzene			15	39	37	44	81	182	522	884	1439
Pentachlorophenol	82	81	158	145	149	103	206	348	589	923	1581
Simazine	150	198	340	341	333	537	674	980	1077	1558	1718
Tributyltin cation							37	27		54	559
Trifluralin	95	125	161	160	128	196	276	525	904	1272	1600
Trichloromethane	111	137	164	150	169	119	252	416	939	758	1243

Table 1.2.7 Available stations with data for countries within the 1999-2009 period

Substance	AT	BA	BE	BG	CY	CZ	DE	EE	ES	FI	FR	GB	GR	HR	HU	CH	IE	IS	IT	LT	LU	LV	MK	NL	NO	PL	PT	RO	RS	SE	SI	SK		
1,1,2,2-tetrachloroethene			29		14		129		148		890	31							378	46	3			13		30					1	33		
1,2-dichloroethane	32		29		14	48	122		148		881	21						59	343	46	3			13		64						16	33	
4-nonylphenol			28								9	498	11						66														1	35
Alachlor	287	6	43			46			143	7	1156			28					66	434		3			15	20	15	3	62	2	24	35		
Aldrin	21	1	42	6	13	48	77		162	7	1120	90	69	34					66	285	46		12		15	64	47	2	67			24	35	
Anthracene	21	12	44			13	104		140	7	1059	70		23					66	88	46	3	7		16	76	14	3				20	35	
Atrazine	287	12	43			12	46	116	161	7	1108	79	69	24	90				66	435	46	3			15	26	16	5	67	2	24	32		
Benzene	33	12	43			14	48	116	152	7	886	99		23	81				68	317	46	3	4		13	72	3					18	33	
Benzo(a)pyrene	21	12	44			8	45	104	150	7	1075	69		23					56	184	46	3	7		16	86	16	1	21			20	35	
Benzo(b)fluoranthene	21	12	44			8	45	104	145	7	1080	69		23					56	176	46	3	7		16	85	15	3	21			20	35	
Benzo(g,h,i)perylene	21	12	39			8	45	101	145	7	1089	69		23					56	178	46	3	7		16	84	15	3	21			20	35	
Benzo(k)fluoranthene	21	12	44			8	45	104	145	7	1097	69		23					56	169	46	3	7		16	68	15	3	21			20	35	
Cadmium	287	35	59	102	15	51	197	18	193	52	938	271	69	33	101	2	77	3	828	47		34	20	16	46	84	48	68	22	83	24	37		
DDD, p,p'		12	28			13	48	50		7	847	13	69	27	51				97	54			12		15					67		24	35	
DDE, p,p'		12	28			13	48	49		7	855	36	34	27	51				11				12		15					62		1	35	
DDT, o,p'			28			11				7	819	24	69		22				24				12		14		49			67		2	33	
DDT, p,p'	1	12	29			13	48	76		7	852	78	34	26	72				114	54		12		15		45		7	67			24	35	
Di (2-ethylhexyl) phthalate (DEHP)	32	12	28			13			5	9	781	69						56		118	8	3			14							3	35	
Dieldrin	21	1	42	6	13	48	70			7	1148	94	69	34	83				66	287	46		12		15		72	14		67			24	35
Dichloromethane	32	6	43			14	136		134		894	20		24				58		204	46	3			13		44					18	33	
Diuron	44	12	44			10	27	104		24	7	1144	59		24				66	186	10	3			11		14	16		60	2	1	35	
Endosulfan			43						148			20		34						85	9				14		22						34	
Endrin	21		42	6	13	43	77			7	1151	90	69	34	83			66		287	46		12		15		63	13	2	67			24	35
Fluoranthene	21	12	44			13	45	104	140	7	1082	69							66	170	46	3	7		16	88	15	4	21			20	35	
gamma-HCH (Lindane)	21	4	38				48	105		7	1160	38	34	27	94					250	54	3	12		15	11		23	8	67	2	21	36	
Hexachlorobenzene (HCB)	21	12	42			13	48	70	161	7	1156	69		24					66	342	46	3	12		15		48		1	67			23	35
Hexachlorobutadiene (HCBD)	21		29			15	48	102	147	7	1030	33		24					68	341	9	3			15		44						1	31
Chlorovinphos		12	16			12			134	7	1124	73		28				66		269	10	3			15		16	2		62	2	24	12	
Chlorpyrifos	32	12	30			12	47		143	7	1094	2	2							337	10				15		16			62	2	8	35	
Indeno(1,2,3-cd)pyrene	21	12	44			8	45	104		7	1102	69		23					56	106	46	3	7		16	64	16	2	21			20	35	
Isodrin	21		42	6		48	62			7	1161	79	2	31					66	195	10				15		54	14			62		2	35
Isoproturon	44	6	44			10	33	103	28	7	1156	59		24					66	165	10	3			11		14			60	2	1	35	
Lead	287	30	59	103	15	47	136	18	196	55	940	261	69	33	101	2	77	3	835	47		32	20	16	46	88	48	81	22	83	24	36		
Mercury	287	35	59	22	14	50	169		178	31	937	278	69	33	101	1	76	3	774	47		28		16	46	86	25	31	22	85	24	17		
Naphthalene	21	6	30			15	102		159	7	1043	69							68	175	14		7		14		78	15	5				7	32
Nickel	287	33	59	93	15	55	136	3	196	56	943	266	69	33	101				77	837	47		31	20	16	46	93	1	77	22	83	24	15	
Para-tert-octylphenol			42							9	722	31							56	42					14		13						1	33
Pentachlorobenzene	21		42						130	7	1091	20		24					66	134	10	3			15		30						1	35
Pentachlorophenol	21	12	42				83		141		1057	77		28	3				66	105	46	3			14		30	2		52			18	34
Simazine	287	12	43			12	46	108	123	7	1101	78	34	23					66	440	46	3			15		24			67	2	24	35	
Tributyltin cation			28				29				521	3														10							32	
Trifluralin	21		43			12	47	87	145	7	1096	76						66		343	10				15		16			62	2	24	35	
Trichloromethane	32	12	43			14	135		148		884	41		27	11					438	46	3	1		13		59					20	33	

### 1.3 Groundwater

Table 1.3.1 Temporal availability of SoE data for selected hazardous substances in the 1999-2009 period

Substance	No. of years	Period
1,1,1-trichloroethane	11	1999-2009
1,1,2,2-tetrachloroethene	11	1999-2009
1,1,2-trichloroethene	11	1999-2009
1,2-Dichloroethane	11	1999-2009
2,4-D	5	2005-2009
4-nonylphenol	9	2001-2009
Alachlor	5	2005-2009
Aldrin	5	2005-2009
Alpha-Endosulfan	5	2005-2009
Alpha-HCH	5	2005-2009
Anthracene	11	1999-2009
Arsenic	11	1999-2009
Atrazine	5	2005-2009
Bentazone	5	2005-2009
Benzene	11	1999-2009
Benzo(a)pyrene	11	1999-2009
Benzo(b)fluoranthene	11	1999-2009
Benzo(g,h,i)perylene	11	1999-2009
Benzo(k)fluoranthene	11	1999-2009
Beta-HCH	5	2005-2009
Cadmium	11	1999-2009
Copper	11	1999-2009
DDD, p,p'	5	2005-2009
DDE, p,p'	5	2005-2009
DDT, o,p'	5	2005-2009
DDT, p,p'	5	2005-2009
Desethylatrazine	5	2005-2009
Desisopropylatrazine	5	2005-2009
Di (2-ethylhexyl) phthalate (DEHP)	6	2004-2009
Dieldrin	5	2005-2009
Dichloromethane	11	1999-2009
Diuron	5	2005-2009
Endrin	5	2005-2009
Fluoranthene	11	1999-2009
Gamma-HCH (Lindane)	5	2005-2009
Hexachlorobenzene (HCB)	5	2005-2009
Hexachlorobutadiene (HCBD)	10	2000-2009
Chlorfenvinphos	5	2005-2009
Chloroalkanes C10-13	5	2005-2009
Chlorpyrifos	5	2005-2009
Chromium	11	1999-2009
Indeno(1,2,3-cd)pyrene	11	1999-2009
Isodrin	5	2005-2009
Isoproturon	5	2005-2009
Lead	11	1999-2009
Linuron	5	2005-2009
MCPA	5	2005-2009
Mecoprop	5	2005-2009
Mercury	11	1999-2009
Naphthalene	11	1999-2009
Nickel	11	1999-2009
Para-tert-octylphenol	4	2006-2009
Pentachlorobenzene	8	2001-2009
Pentachlorophenol	11	1999-2009
Prometryn	5	2005-2009
Propazine	5	2005-2009
Simazine	5	2005-2009
Terbutylazine	5	2005-2009
Tetrachloromethane	11	1999-2009
Trifluralin	5	2005-2009
Trichloromethane	11	1999-2009
Zinc	11	1999-2009

Table 1.3.2 No. of years with available data for countries within the 1999-2009 period

Substance	AL	AT	BA	BE	BG	CY	CZ	DE	DK	EE	FR	GB	HR	CH	IE	IS	IT	LT	LU	LV	PL	PT	RS	SE	SI	SK			
1,1,1-trichloroethane				4				4	11		4	10	1	10	8										4	2			
1,1,2,2-tetrachloroethane				4	4	2	2		11		4	10		10	8					1						4	4		
1,1,2-trichloroethene				4	4	2	2		11		4	10		10	8					1						4	3		
1,2-Dichloroethane		11		11			7	4	1		7	10	1		8	6				1						7	8		
2,4-D				4	2		2	4	9		4	4			3											5	2		
4-nonylphenol											5	4															2		
Alachlor		11		7	2	2	8	1	1		6		1										1			11	3		
Aldrin		8	1	7	11		7	1			7	10	1					1						3		8	3		
Alpha-Endosulfan			1		7		7	1			7	10											3			7			
Alpha-HCH					10		2	3			4	1	1					1						3		5			
Anthracene				10			7	1			7	10	1		1	6											3		
Arsenic				2	2	2	2	11	2	3	11	10	1		11					2	3					5	3		
Atrazine		11		11	11	2	9	9	11		8	10	1	10	4		1	1					1	3		11	11		
Bentazone		11		4			2	4	11		4	10			3											4	1		
Benzene				11			7	4	11		7	10	1	10	8	6										7	8		
Benzo(a)pyrene				11			7	4			7	10	1		1	6				3							8		
Benzo(b)fluoranthene				11			7	4			7	8	1			6				3							3		
Benzo(g,h,i)perylene				11			7	4			7	10	1			6				3							3		
Benzo(k)fluoranthene				11			7	4			7	10	1			6				3							3		
Beta-HCH					9		2	3			4	1	1					1						3		5			
Cadmium			11	2	11	8	2	7	7	10	2	7	10	1	10	11	6		1		2	6		3	2	11	7		
Copper	1	11	3	11	8	3	7	5	10		7	10	1	10	11	6		1		1	6		3	2	11	8			
DDD, p,p'					8		2				4	4	1											2		5			
DDE, p,p'		8		5	11		7				7	10	1													5	1		
DDT, o,p'					11		7	1			7	10												3		4			
DDT, p,p'				1	11		7	1			7	9	1		4									3		5	3		
Desethylatrazine		11		4	2		2	4	11		8	8		7												8	2		
Desisopropylatrazine				4	2		2	4	11		4	8		7												8	1		
Di (2-ethylhexyl) phthalate (DEHP)							2		6		4	4															3		
Dieldrin			1	7	11		7	1			7	10	1		5			1						3		8	3		
Dichloromethane		11					7	7	1		6	10	1			6										7	3		
Diuron		11		11	1		6	6	9		8	10		5	3											7	1		
Endrin			1	7	11		7	1			7	10	1					1						3		5	3		
Fluoranthene				11			7	4			7	10	1			6			3								8		
Gamma-HCH (Lindane)		8		11	11		9	7			7	10	1		4			1					3	3		5	11		
Hexachlorobenzene (HCB)		8		4	9		9	1			7	10	1					1					3	3		4	11		
Hexachlorobutadiene (HCBD)				6			7	2			7	10	1														7	2	
Chlorfenvinphos				11	1	2		1			7	10	1					1					1			7	1		
Chloroalkanes C10-13							2				5																		
Chlorpyrifos					2	2	8	2	1		6	9	1					1								1	3		
Chromium	1		3	2	2	2	2	7			3	10	1		11					1	3			2	6	3			
Indeno(1,2,3-cd)pyrene				11	1		7	2			7	10	1			6			3								3		
Isodrin					9		7	1			7	10	1														2		
Isoproturon		11		11			8	7	9		8	10		5	3											7	3		
Lead	1	11	2	11	8	2	7	4	10	2	7	10	1	10	11	6		1		2	6			3	2	11	8		
Linuron		11		11			6	4	3		7	10															7		
MCPA				4			2	4	9		4	10			3												8	3	
Mecoprop				4			2	4	11		4	10			3												2		
Mercury		11	2	11	2	2	7	4	5	2	7	10	1	7	5	6				1	2			1		11	8		
Naphthalene				9			7		11		6	10	1		1	6											3		
Nickel	1	11	2	11	8	3	7	7	11		7	10	1	10	11	6				1	6			3	2	11	8		
Para-tert-octylphenol											4	3																3	
Pentachlorobenzene							7				7	3															3		
Pentachlorophenol				11			4	2	11		6	10	1														1	8	
Prometryn				4	9		2	4			4	10						1									8	2	
Propazine				4	11	2		4			4	10		5				1						3			8		
Simazine		11		11	11	2	8	9	11		7	10	1	10	1			1					1	3			11	11	
Terbutylazine				4	2		2	4	9		4			10														8	2
Tetrachloromethane				4	1		2	3	11		4	10	1	10													1	3	
Trifluralin		2		11	2	2	8	3			7	10						1									7	3	
Trichloromethane				11			7	7	11		7	10	1	10		6				1							4	4	
Zinc	1	11	3	11	8	1	7	7	10		7	10	1	7	11	6		1		1	6			3	2	11	8		

Table 1.3.3 No. of years with available data for countries within the 2008-2009 period

Substance	AL	AT	BA	BE	BG	CY	CZ	DE	DK	EE	FR	GB	HR	CH	IE	IS	LV	PL	RS	SE	SI	SK	
1,1,1-trichloroethane				2				2	2		2	2	1	2	1						2	2	
1,1,2,2-tetrachloroethane				2	2	2	2		2		2	2		2	1		1					2	2
1,1,2-trichloroethene				2	2	2	2		2		2	2		2	1		1					2	2
1,2-Dichloroethane		2		2			2	2			2	2	1		1	2	1					2	2
2,4-D				2	2		2	2			2	2			2							1	2
4-nonylphenol											1												1
Alachlor		2		2	2	2	2						1									2	2
Aldrin				2	2		2	1			2	2	1						1			2	2
Alpha-Endosulfan					2		2	1			2	2										2	
Alpha-HCH					2		2	2			2	1	1						1			1	
Anthracene				2			2				2	2	1		1	2							2
Arsenic				2	2	2	2	2	2	2	2	2	1		2		2	2				2	2
Atrazine		2		2	2	2	2	1	2		2	2	1	2	2				1			2	2
Bentazone		2		2			2	2	2		2	2			2							2	1
Benzene				2			2	2	2		2	2	1	2	1	2						2	2
Benzo(a)pyrene				2			2	2			2	2	1		1	2							2
Benzo(b)fluoranthene				2			2	2			2	2	1			2							2
Benzo(g,h,i)perylene				2			2	2			2	2	1			2							2
Benzo(k)fluoranthene				2			2	2			2	2	1			2							2
Beta-HCH					2		2	2			2	1	1						1			1	
Cadmium		2	1	2	2	2	2	2	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2
Copper	1	2	1	2	2	2	2	2	2		2	2	1	2	2	2	1	2	2	2	2	2	2
DDD, p,p'					2		2				2	2	1						1			1	
DDE, p,p'					2		2				2	2	1									1	
DDT, o,p'					2		2	1			2	2							1			2	
DDT, p,p'				1	2		2	1			2	2	1		1				1			1	2
Desethylatrazine		2		2			2	2	2		2	2		2								2	2
Desisopropylatrazine				2			2	2	2		2	2		2								2	1
Di (2-ethylhexyl) phthalate (DEHP)							2		2		2	2											2
Dieldrin				2	2		2	1			2	2	1		2				1			2	2
Dichloromethane		2					2	2			2	2	1			2						2	2
Diuron		2		2	1		2	1			2	2		2	2							2	1
Endrin				2	2		2	1			2	2	1						1			1	2
Fluoranthene				2			2	2			2	2	1			2							2
Gamma-HCH (Lindane)				2	2		2	2			2	2	1		2				1			1	2
Hexachlorobenzene (HCB)				2	2		2	1			2	2	1						1				2
Hexachlorobutadiene (HCBd)				2			2	2			2	2	1									2	2
Chlorfenvinphos				2	1	2					2	2	1									2	1
Chloroalkanes C10-13							2				2												
Chlorpyrifos					2	2	2	1			2	2	1									1	2
Chromium	1		2	2	2	2	2	2			2	2	1		2		1	2			2	2	2
Indeno(1,2,3-cd)pyrene				2	1		2	2			2	2	1			2							2
Isodrin					2		2	1			2	2	1										2
Isoproturon		2		2			2	2			2	2		2	2							2	2
Lead	1	2	2	2	2	2	2	1	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2
Linuron		2		2			2	2			2	2											2
MCPA				2			2	2			2	2			2							2	2
Mecoprop				2			2	2	2		2	2			2							1	
Mercury		2	1	2	2	2	2	2		2	2	2	1		2	2	1	2				2	2
Naphthalene				2			2		2		2	2	1		1	2							2
Nickel	1	2	1	2	2	2	2	2	2		2	2	1	2	2	2	1	2	2	2	2	2	2
Para-tert-octylphenol											2	2											2
Pentachlorobenzene							2				2												2
Pentachlorophenol				2			2	2	2		2	2	1										2
Prometryn				2	1		2	2			2	2										2	2
Propazine				2	2	2		2			2	2		2					1			2	
Simazine		2		2	2	2	2	2	2		2	2	1	2	1				1			2	2
Terbutylazine				2			2	2			2			2									2
Tetrachloromethane				2	1		2	1	2		2	2	1	2								1	2
Trifluralin				2	2	2	2	2			2	2										2	2
Trichloromethane				2			2	2	2		2	2	1	2		2	1					1	2
Zinc	1	2	2	2	2		2	2	2		2	2	1	1	2	2	1	2	2	2	2	2	2

Table 1.3.4 Available samples within the 1999-2009 period

Substance	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	Total
1,1,1-trichloroethane	186	591	402	615	885	1034	2221	4063	4855	5283	4676	24811
1,1,2,2-tetrachloroethene	186	610	409	669	891	1045	2203	4001	5169	6656	6090	27929
1,1,2-trichloroethene	186	612	409	670	888	1044	2215	4063	5052	6681	6094	27914
1,2-dichloroethane	2062	1393	1119	1514	2319	4125	4521	5159	5944	6382	5956	40494
2,4-D	361	365	426	486	396	334	454	2820	4821	6080	6302	22845
4-nonylphenol			4	5	4	45	310	246	203	775	79	1671
Alachlor	2041	1963	1993	2362	2330	3584	4192	5150	6070	6456	7105	43246
Aldrin	1357	681	490	748	1873	4724	3414	4911	6426	6610	6889	38123
Alpha-Endosulfan		135	137	127	1216	2188	3104	3840	5554	5635	6169	28105
Alpha-HCH	2	14	32	44	48	61	10	1834	3453	5066	5721	16285
Anthracene	248	265	20	49	455	725	1655	2015	2850	4430	4277	16989
Arsenic	390	866	761	1562	1658	2083	2506	3169	7586	9927	8896	39404
Atrazine	2753	3752	3041	3210	5227	6154	7868	9866	10716	10915	10545	74047
Bentazone	1789	1072	1030	1173	1200	3829	2381	6111	7566	8690	8541	43382
Benzene	338	751	409	642	1797	2054	3457	4299	5289	5908	5275	30219
Benzo(a)pyrene	259	518	130	173	1035	1311	2599	2579	3855	4671	4633	21763
Benzo(b)fluoranthene	258	270	12	27	810	885	1798	1800	3317	3913	3645	16735
Benzo(g,h,i)perylene	256	522	129	140	973	1290	2570	2547	3855	4667	4239	21188
Benzo(k)fluoranthene	256	523	131	146	981	1289	2576	2549	3853	4661	4241	21206
Beta-HCH	2	1	25	44	48	48	9	1842	2881	4144	4680	13724
Cadmium	2170	2126	1937	2999	5095	6872	8605	8397	13695	13545	12924	78365
Copper	2161	2129	1939	3350	5466	7124	8888	8935	13775	14090	13006	80863
DDD, p,p'	2	1	12	40	10	10	10	2704	3351	5347	5130	16617
DDE, p,p'	1226	465	305	551	1027	3991	2719	4283	4841	5691	6054	31153
DDT, o,p'	11	130	118	116	788	1861	2381	3798	4622	5762	6059	25646
DDT, p,p'	13	42	29	109	542	955	1448	3529	4990	5908	5297	22862
Desethylatrazine	2397	2946	2381	2484	3256	4257	6242	8286	8303	9417	9930	59899
Desisopropylatrazine	353	377	426	486	467	1201	2281	6241	7581	8374	9281	37068
Di (2-ethylhexyl) phthalate (DEHP)						3	6	445	795	1906	2205	5360
Dieldrin	3	392	300	368	1643	2539	2895	4388	6503	6982	6779	32792
Dichloromethane	1892	1025	1017	1223	1652	3476	2588	2669	3556	3828	3316	26242
Diuron	1957	1923	823	1040	2943	5879	5751	7434	9003	9333	9363	55449
Endrin	5	132	155	193	1019	1930	2398	4007	4930	5690	6004	26463
Fluoranthene	259	523	131	192	1013	1304	2597	2535	3825	4659	4245	21283
Gamma-HCH (Lindane)	1728	1243	849	1115	2020	4851	4199	5237	7165	7825	7332	43564
Hexachlorobenzene (HCB)	1390	528	618	813	1034	4192	2956	3230	6327	6374	6488	33950
Hexachlorobutadiene (HCBD)		242	107	94	775	1676	2597	2263	4136	4861	4318	21069
Chlorfenvinphos	200	723	251	268	1159	1723	3277	4897	5589	6048	6275	30410
Chloroalkanes C10-13							310	246	1	1577	1853	3987
Chlorpyrifos	4		4	303	361	1763	3645	5002	6145	6599	7169	30995
Chromium	278	992	752	1603	1698	2954	4429	5883	9839	12153	10849	51430
Indeno(1,2,3-cd)pyrene	258	522	126	139	968	1288	2564	2532	3837	4660	4241	21135
Isodrin		129	117	98	1011	1902	2321	3384	4228	5168	5608	23966
Isoproturon	1953	1927	810	1274	3348	6036	5861	7446	9120	9785	9337	56897
Lead	2161	2126	1938	3348	5075	6870	8551	8713	13643	13219	12569	78213
Linuron	1641	979	420	594	1773	5010	4187	6110	7958	8272	8261	45205
MCPA	361	699	583	730	736	1620	1972	5246	6919	8067	7676	34609
Mecoprop	359	704	552	650	736	1651	1972	5664	6888	8604	8246	36026
Mercury	1534	1489	1032	1502	2537	5013	4563	3935	7619	7859	7181	44264
Naphthalene	171	242	207	187	729	1199	1870	3849	4238	4573	4268	21533
Nickel	2162	2139	1946	3353	5142	6993	8860	9307	14424	14200	13398	81924
Para-tert-octylphenol								246	298	1654	913	3111
Pentachlorobenzene			4		314	782	1345	826	2237	4242	4813	14563
Pentachlorophenol	476	656	427	513	786	469	1635	1691	3650	2373	3506	16182
Prometryn	3	234	199	299	350	998	1643	5058	5609	6227	7196	27816
Propazine	12	265	201	302	436	1123	1780	5928	7239	7615	6980	31881
Simazine	2721	3144	2677	3212	5165	6054	7869	9857	10008	10502	10512	71721
Terbutylazine	361	368	432	565	399	432	657	4080	5220	6353	7041	25908
Tetrachloromethane	186	584	361	633	837	977	2150	3918	4763	6189	5256	25854
Trifluralin	312	737	254	535	1755	2548	3117	4483	6373	6860	7005	33979
Trichloromethane	513	883	485	755	2279	2644	4060	4661	5834	6506	5671	34291
Zinc	2168	2148	1959	3458	5570	7248	9084	9795	14537	14324	13041	83332
<b>Total</b>	<b>46331</b>	<b>50818</b>	<b>37993</b>	<b>53900</b>	<b>96948</b>	<b>157270</b>	<b>196346</b>	<b>274002</b>	<b>372929</b>	<b>420771</b>	<b>410649</b>	<b>2117957</b>

Table 1.3.5 Available samples for countries within the 1999-2009 period

Substance	AL	AT	BA	BE	BG	CY	CZ	DE	DK	EE	FR	GB	HR	CH	IE	IS	IT	LT	LU	LV	PL	PT	RS	SE	SI	SK			
1,1,1-trichloroethane				795				843	1556		5480	13904	38	728	744											398	325		
1,1,2,2-tetrachloroethane				817	146	307	2160		1556		6133	14408		735	744					11							398	514	
1,1,2-trichloroethane				822	146	307	2160		1557		6131	14540		725	744					11								398	373
1,2-dichloroethane		12206		1539			4981	148	2		6397	13091	36		744	9				11							674	656	
2,4-D				1106	69		2160	300	3226		13532	698			1332												145	277	
4-nonylphenol											1562	18																91	
Alachlor	17839			1301	69	226	5257	6	1		17157		32									3					829	526	
Aldrin	5319	33	1319	352			4981	22			16691	8568	54					10						200			370	204	
Alpha-Endosulfan			33		66		4979	22			15342	6983						10				72					598		
Alpha-HCH					327		2160	87			13346	88	10					10						200			57		
Anthracene				1436			4981	1			6067	3159	8		392	9												936	
Arsenic				996	243	325	2160	1061	3467	85	6868	16970	40		4022					98	341						191	2537	
Atrazine	17845		2648	390	226		5523	2896	4452		20075	15953	44	683	1406		97	10				3	200				828	768	
Bentazone	6589		1576				2160	1242	4452		13612	11939			1376												284	152	
Benzene			1557				4981	59	1500		5354	14443	2	576	740	9											519	479	
Benzo(a)pyrene			2808				4981	56			7768	4613	8		392	9			15									1113	
Benzo(b)fluoranthene			2812				4981	57			7768	149	8						15									936	
Benzo(g,h,i)perylene			2808				4981	57			7768	4606	8						15									936	
Benzo(k)fluoranthene			2810				4981	57			7768	4622	8						15									936	
Beta-HCH				285			2160	87			10835	88	2					10						200			57		
Cadmium		9291	52	2202	543	317	5255	3364	6543	90	8000	32905	96	549	4052	12		24		98	483		169	24	862	3434			
Copper	19	9302	171	2225	662	356	5255	2578	6547		8748	34917	108	568	4037	12		23		24	483		168	24	862	3774			
DDD, p,p'				197			2160				11390	2674	10										129				57		
DDE, p,p'		4986		752	385		4818				12981	7116	10														57	48	
DDT, o,p'				351			4818	22			12955	7050											200				250		
DDT, p,p'				314	373		4818	22			12185	3407	10		1256								200				57	220	
Desethylatrazine	17845		1629	3			2160	1531	4452		20011	10792		538													518	420	
Desisopropylatrazine			1608	3			1951	1424	4444		15535	10794		537													518	254	
Di (2-ethylhexyl) phthalate (DEHP)				1235				704			3170	99																152	
Dieldrin			33	1317	326		4981	22			15207	8651	49		1422			10					200				370	204	
Dichloromethane	12203						4981	1501	4		5996	376	32			9											674	466	
Diuron	5408		2638	5			4706	2595	3262		19838	14529		506	1382												326	254	
Endrin			33	1296	320		4981	22			12200	7018	49					10					200				130	204	
Fluoranthene				2830			4981	57			7728	4542	8				9			15								1113	
Gamma-HCH (Lindane)	5319		1802	630			5360	1224			18684	8240	10		1399							72	200				130	484	
Hexachlorobenzene (HCB)	5319		789	231			5360	22			14537	7022	2					10				72	200				34	352	
Hexachlorobutadiene (HCBD)			402				4494	6			8414	6751	2														675	325	
Chlorfenvinphos			2011	5	226			6			14058	13253	32					10				3					709	97	
Chloroalkanes C10-13							1235				2752																		
Chlorpyrifos				77	224		5257	28	4		13669	11407	32					10									83	204	
Chromium	20		124	996	54	325	2160	1013	1350		5135	32908	96		3992						24	341			24	331	2537		
Indeno(1,2,3-cd)pyrene				2805	1		4981	31			7768	4581	8			9			15									936	
Isodrin				142			4981	22			11817	6823	4															177	
Isoproturon		5403		2606			5256	3043	3275		19834	14508		506	1383												557	526	
Lead	20	9301	17	2219	591	321	5255	1654	6545	90	7152	34911	96	558	4039	12		22		98	483		169	24	862	3774			
Linuron		5404		2395			4706	310	143		17257	14433															557		
MCPA				1097			2160	300	3268		13636	12064			1380												401	303	
Mecoprop				1002			2160	1242	4452		12881	12769			1380												140		
Mercury	9296	52	1961	192	322		5256	411	338	90	5569	12506	96	435	2735	12				23	299		35			862	3774		
Naphthalene			893				4954		1501		5935	6911	2		392	9												936	
Nickel	20	9302	53	2227	550	385	5256	3403	6674		9503	34620	96	559	3960	12				24	483		169	24	830	3774			
Para-tert-octylphenol											2911	42																158	
Pentachlorobenzene							4913				9439	7																204	
Pentachlorophenol				1862			2147	31	2650		3703	5348	32														2	407	
Prometryn			1245	171			2160	166			9516	13610						10									518	420	
Propazine			1482	355	226		1262				13456	13866		506				10					200				518		
Simazine	17845		2645	388	226		5257	3177	4420		19384	15750	40	625	154			10				3	200				829	768	
Terbutylazine			1585	25			2160	1530	3332		15713			625													518	420	
Tetrachloromethane			805	6			2160	131	1555		5497	14481	38	728													80	373	
Trifluralin		139		2162	77	226	5257	110			16655																		



Table 1.3.6 Available stations with data within the 1999-2009 period

Substance	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
1,1,1-trichloroethane	184	483	336	478	697	802	1786	2982	3447	3128	3069
1,1,2,2-tetrachloroethene	184	489	339	529	699	806	1772	2890	3530	3761	3769
1,1,2-trichloroethene	184	489	339	529	699	806	1787	2929	3392	3781	3768
1,2-dichloroethane	698	566	427	670	1268	1732	2691	3218	4260	3757	3826
2,4-D	333	347	400	422	371	293	411	1297	1826	2194	2354
4-nonylphenol			4	5	4	45	134	108	203	188	60
Alachlor	652	644	675	959	941	1185	1364	1836	2746	2810	3005
Aldrin	650	390	337	467	1264	2161	1652	2432	2949	3051	2956
Alpha-Endosulfan		78	84	91	806	1230	1519	2048	2648	2689	2698
Alpha-HCH	1	12	30	35	47	54	10	808	1427	1990	2082
Anthracene	42	60	15	39	349	332	989	1190	1869	1879	2141
Arsenic	390	651	612	996	1137	1230	1729	1625	4167	4775	4761
Atrazine	1136	1658	1651	1707	2835	3049	4144	5093	5743	5561	5572
Bentazone	974	747	708	779	845	2107	1814	3570	3892	4289	4224
Benzene	216	529	346	533	1283	1348	2368	2929	3689	3294	3232
Benzo(a)pyrene	53	220	83	138	654	795	1507	1391	2182	2010	2281
Benzo(b)fluoranthene	53	60	12	25	469	420	769	802	1795	1524	1566
Benzo(g,h,i)perylene	53	225	82	108	599	774	1478	1359	2181	2008	2073
Benzo(k)fluoranthene	53	225	84	111	600	773	1483	1361	2180	2005	2073
Beta-HCH	1	1	23	35	47	44	9	814	1139	1667	1801
Cadmium	1083	1132	1038	1552	2770	3171	4230	4180	6847	6201	6469
Copper	1084	1133	1039	1728	2933	3370	4313	3972	6722	6192	6256
DDD, p,p'	1	1	10	31	10	10	10	1532	1732	2508	1864
DDE, p,p'	519	211	165	304	581	1704	1467	2231	2379	2696	2635
DDT, o,p'	11	86	78	100	467	1165	1365	2140	2382	2760	2644
DDT, p,p'	12	42	27	99	251	421	568	1931	2382	2724	1987
Desethylatrazine	983	1196	1039	1057	1460	2017	3076	4487	4734	5240	5190
Desisopropylatrazine	328	350	400	422	442	1071	1817	3850	4104	4469	4575
Di (2-ethylhexyl) phthalate (DEHP)						3	6	299	385	681	1103
Dieldrin	2	286	249	309	1153	1538	1532	2330	2962	3146	3017
Dichloromethane	650	385	366	454	884	1236	1037	1216	2534	1928	1932
Diuron	1031	1019	634	770	1715	2949	3311	4034	4281	4226	4628
Endrin	4	80	112	137	683	1198	1370	2198	2531	2792	2760
Fluoranthene	53	225	84	157	646	794	1504	1381	2180	2010	2074
Gamma-HCH (Lindane)	828	669	678	810	1360	2284	2146	2706	3216	3530	3244
Hexachlorobenzene (HCB)	684	259	455	547	699	1822	1590	1963	2974	2976	2767
Hexachlorobutadiene (HCBd)		168	66	79	544	1008	1444	1458	2360	2397	2175
Chlorfenvinphos	41	397	211	251	611	1123	1798	2822	2910	3052	2971
Chloroalkanes C10-13							134	108	1	384	809
Chlorpyrifos	4		4	303	361	1149	1988	2988	3265	3420	3480
Chromium	272	718	573	970	1147	1611	2562	2713	4776	5031	4925
Indeno(1,2,3-cd)pyrene	52	225	81	108	594	773	1472	1352	2176	2006	2073
Isodrin		77	76	83	677	1186	1318	1942	2237	2541	2583
Isoproturon	1033	1020	621	1016	2071	3026	3345	4036	4398	4608	4622
Lead	1084	1132	1039	1727	2701	3168	4178	3899	6691	5701	6154
Linuron	775	513	256	360	823	2223	2181	3039	3820	3906	3988
MCPA	333	615	548	656	700	1462	1684	3058	3271	3679	3493
Mecoprop	332	618	517	616	700	1488	1684	3358	3580	4194	3938
Mercury	748	859	558	779	1381	2407	2341	2234	4587	4325	4066
Naphthalene	170	196	173	167	589	717	1174	2581	2933	2227	2177
Nickel	1083	1137	1037	1733	2787	3274	4290	4359	6958	6333	6507
Para-tert-octylphenol								108	247	441	334
Pentachlorobenzene			4		310	314	565	400	1034	1659	1776
Pentachlorophenol	375	433	402	481	632	378	1072	1132	2057	1442	2095
Prometryn	2	188	186	249	340	879	1327	2829	2929	3398	3529
Propazine	11	206	187	252	426	916	1357	3450	3690	3753	3323
Simazine	1107	1456	1287	1708	2819	3024	4144	5096	5592	5648	5565
Terbutylazine	333	348	401	450	374	387	506	2002	2130	2585	2785
Tetrachloromethane	184	462	303	493	664	758	1747	2890	3352	3477	3246
Trifluralin	65	413	207	516	1086	1481	1527	2234	2913	3184	3067
Trichloromethane	237	526	324	484	1440	1576	2718	3197	3941	3593	3491
Zinc	1091	1155	1049	1756	2971	3473	4402	4459	7077	6261	6218

Table 1.3.7 Available stations with data for countries within the 1999-2009 period

Substances	AL	AT	BA	BE	BG	CY	CZ	DE	DK	EE	FR	GB	HR	CH	IE	IS	IT	LT	LU	LV	PL	PT	RS	SE	SI	SK			
1,1,1-trichloroethane				163				237	215		1163	1971	17	35	208										47	103			
1,1,2,2-tetrachloroethane				163	68	83	613		215		1204	2008		35	208					11						47	141		
1,1,2-trichloroethane				163	68	83	613		215		1204	2042		35	208					11							47	103	
1,2-dichloroethane			650	163			613	51	2		1127	1963	15		208	2				11							47	141	
2,4-D				126	36		613	119	417		1350	123			136												42	99	
4-nonylphenol											191	5																60	
Alachlor			650		95	34	80	613	6	1	1460		14									3					47	170	
Aldrin		643	33	99	66			613	22		1379	1049	22					9						68			47	68	
Alpha-Endosulfan				33			23	613	22		1265	981						9				9					47		
Alpha-HCH							58	613	50		1364	47	5					9						68			23		
Anthracene				142				613	1		679	534	4		208	2												219	
Arsenic				218	86	83	613	444	483	78	1602	1621	18		211						74	112					47	434	
Atrazine		650		217	68	80	613	544	467		1539	2064	18	35	142			97	9				3	68			47	170	
Bentazone		642		216			613	319	467		1337	1748			142													47	99
Benzene				163			613	7	241		1002	1977	1	35	208	2												47	117
Benzo(a)pyrene				216			613	7			930	714	4		208	2					5							219	
Benzo(b)fluoranthene				216			613	7			930	29	4			2					5							219	
Benzo(g,h,i)perylene				216			613	7			930	713	4			2					5							219	
Benzo(k)fluoranthene				216			613	7			930	718	4			2					5							219	
Beta-HCH						52		613	50		1056	47	1					9						68			23		
Cadmium		643	20	218	83	83	613	445	483	78	1623	2475	29	34	211	3		24			74	112		63	16	47	434		
Copper	10	643	33	218	111	83	613	431	483		1576	2646	29	35	211	3		23			24	112		63	16	47	434		
DDD, p,p'						59		613			1186	775	5											63			23		
DDE, p,p'			534		90	66		613			1184	1021	5														23	48	
DDT, o,p'				60			613	22			1185	1005												68			47		
DDT, p,p'				87	66		613	22			1156	838	5		141									68			23	68	
Desethylatrazine		650		240	2		613	382	467		1537	1828		35													47	170	
Desisopropylatrazine				236	2		613	382	467		1495	1835		35													47	170	
Di (2-ethylhexyl) phthalate (DEHP)							613		213		389	16															59		
Dieldrin			33	98	67		613	22			1245	1068	21		142			9						68			47	68	
Dichloromethane		650					613	207	2		1124	47	14				2										47	141	
Diuron		641		217	5		613	460	467		1538	1924		35	142												47	170	
Endrin			33	95	67		613	22			1067	982	21					9						68			42	68	
Fluoranthene				216			613	7			929	711	4			2				5							219		
Gamma-HCH (Lindane)		643		142	95		613	238			1511	1061	5		142			9				9	68			42	68		
Hexachlorobenzene (HCB)		643		121	43		613	22			1479	982	1					9				9	68			11	68		
Hexachlorobutadiene (HCBD)				80			613	5			977	962	1														47	103	
Chlorfenvinphos				95	5	80		613	6		1069	1907	14					9					3				47	68	
Chloroalkanes C10-13							613				375																	60	
Chlorpyrifos					38	79	613	22	4		1077	1958	14					9									41	68	
Chromium	10		39	218	20	83	613	431	466		1556	2597	29		211						24	112		16	47	434			
Indeno(1,2,3-cd)pyrene				216	1		613	6			930	707	4				2				5						219		
Isodrin					25		613	22			1034	964	2														68		
Isoproturon		641		217			613	461	467		1537	1917		35	142												47	170	
Lead	10	643	13	218	91	83	613	382	483	78	1577	2646	29	35	211	3		22			74	112		63	16	47	434		
Linuron		641		215			613	118	84		1460	1920															47		
MCPA				125			613	119	467		1353	1754			142												47	99	
Mecoprop				91			613	318	467		1218	1786			142												37		
Mercury		643	20	218	72	83	613	162	139	78	1575	1439	29	35	211	3					23	112		34		47	434		
Naphthalene				121			613		241		677	1703	1		208	2											219		
Nickel	10	643	20	218	85	83	613	446	483		1627	2636	29	35	211	3					24	112		63	16	47	434		
Para-tert-octylphenol											379	8																60	
Pentachlorobenzene							613				1129	4															68		
Pentachlorophenol				125			613	22	384		648	860	14													2	73		
Prometryn				95	47		613	56			1011	1981						9									47	170	
Propazine				215	67	80			343		1366	1997		35				9						68			47		
Simazine		650		217	67	80	613	544	467		1537	2065	17	35	85			9				3	68			47	170		
Terbutylazine				215	21		613	382	467		1537			35													47	170	
Tetrachloromethane				163	6		613	51	215		1163	2050	17	35													40	103	
Trifluralin		24		125	38	80	613	53			1358	1052						9									47	68	
Trichloromethane				163			613	288	224		1141	1989	2	35		2					11						40	141	
Zinc	10	643	46	219	147	109	613	469	483		1581	2723	29	32	211	3		23			24	112		63	16	47	434		

Figure 2.1.2.5c Map of indicator for aldrin in lakes in 2008 - 2009