BIS (2-EthylHexyl) Phthalate **Surface Water**

Concentration in ug/L

Location	Date	N	Average	SD	Median	Single Point	Range Low	Range High	Data Quality	Reference	Comments
USA											
Baltimore Harbor	1982						0.45	1.2	2	Monsanto, 1984	
Buffalo River	1982-1986	19	5						4	NYSDEC in USEPA, 1991	all ND (<10 ug/L)
Buffalo River-Outer Harbor subsurface water	N/A	1	20						4	USEPA, 1991	No sampling dates
Buffalo River-Outer Harbor surface water	N/A								4	USEPA, 1991	No sampling dates
Buffalo River-Small Boat Harbor subsurface water	N/A								4	USEPA, 1991	No sampling dates
Buffalo River-Small Boat Harbor surface water	N/A								4	USEPA, 1991	No sampling dates
Charles River	1972	1	1.2				0.88	1.9	4	Hites, 1973	
Chesapeake Bay	1982							0.45	2	Monsanto, 1984	
Cincinnati	<1982							17	4	WHO, 1982	in ECPI
Delaware R-2 miles DS of WTP	1980-1982	1	1			1			4	USEPA, 1987	in Wade Miller, 1989
Delaware River-Summer	1981						0.06	2	4	WHO, 1982	in ECPI
Delaware River-Wilmington	1982							0.4	2	Monsanto, 1984	
Delaware River-Winter	1981						3	5	4	WHO, 1982	in ECPI
Detroit River	1982						0.7	0.8	2	Monsanto, 1984	
Eastcoast USA	<1982	1	1						4	WHO, 1982	in ECPI
Galveston Bay	1979						<0.002	12	4	Murray et al, 1981 a	
Gulf of Mexico Coast	1977	1	0.13				0.006	0.32	4	Giam et al., 1978	
Kanawha River	1982						0.3	0.55	2	Monsanto, 1984	
Lake Huron-Saginaw Bay	1982						0.65	1.9	2	Monsanto, 1984	
Lake Michigan	1982						0.45	1.8	2	Monsanto, 1984	
Lake Michigan	N/A						1	137	4	Ewing et al, 1977	secondary ref
Lake Ontario	1982							0.55	2	Monsanto, 1984	
Lake Superior	1982						0.4	0.95	2	Monsanto, 1984	
Miami	<1982							30	4	WHO, 1982	in ECPI
Mississippi Delta	1977	1	0.07				0.023	0.23	4	Giam et al., 1978	
Mississippi Delta	1975	7	0.34						2	Taylor et al 1981	Soluble fraction
Mississippi Delta	1975	7	0.4						2	Taylor et al 1981	Particulate fraction
Mississippi River	1975	16	0.31						2	Taylor et al 1981	Soluble fraction
Mississippi River	1975	16	0.73						2	Taylor et al 1981	Particulate fraction
Mississippi River	1982						0.3	14	2	Monsanto, 1984	
Mississippi-Length	1984						ND	0.72	4	DeLeon et al, 1986	
Missouri & Kansas, Blue River Basin, Kansas City	1998-2000	129	1.6	2.3	<2		1.2	19	2	Wilkison et al., 2002	Detected in 18 of 129 samples
New Jersey, Trenton - Assunpink Crk; 91 m d/s WWTP	N/A	4	0.66		<0.5		<0.5	1.9	1	Alvarez et al., 2005	Detected in 1 of 4 samples
New Jersey, Trenton - Assunpink Crk; 3.2 km d/s WWTP	N/A	3	0.25		<0.5		<0.5	<0.5	1	Alvarez et al., 2005	Not detected in any of 3 samples
Niagara Riv at Niag.on the Lake	1987-1988	44	0.03				0.022	0.049	4	DIG, 1989	Dissolved only low& high from 90%CI
Niagara Riv at Niag.on the Lake	1987-1988	43	0.016				0.014	0.02	4	DIG, 1989	Susp. Solids, low& high from 90%CI
Niagara Riv at Niag.on the Lake	1988-1989	44	0.04				0.019	0.067	4	DIG, 1990	Dissolved only, low& high from 90%CI
Niagara Riv at Niag.on the Lake	1988-1989	41	0.012				0.011	0.014	4	DIG, 1990	Susp. Solids, low& high from 90%CI
Niagara Riv at Niag.on the Lake	1989-1990	43	0.04				0.026	0.052	4	DIG, 1992	Dissolved only, low& high from 90%CI
Niagara Riv at Niag.on the Lake	1989-1990	47	0.012				0.008	0.017	4	DIG, 1992	Susp. Solids, low& high from 90%CI
Niagara Riv at Niag.on the Lake	1990-1991	47	0.05				0.04	0.07	4	DIG, 1993	Dissolved only, LOD =0.077, low& high from 90%CI
Niagara Riv at Niag.on the Lake	1990-1991	48	0.021				0.013	0.032	4	DIG, 1993	Susp. Solids, low& high from 90%CI
Niagara Riv at Niag.on the Lake	1991-1992	48	0.052				0.037	0.071	4	DIG, 1994	Dissolved only, LOD = 0.077, low& high from 90%CI
Niagara Riv at Niag.on the Lake	1991-1992	49	0.013				0.008	0.02	4	DIG, 1994	Susp. Solids, low& high from 90%CI
Niagara Riv at Niag.on the Lake	1992-1993	49	0.051				0.008	0.148	4	DIG, 1995	Dissolved only,LOD=0.077, low& high from 90%CI
Niagara Riv at Niag.on the Lake	1992-1993	47	0.044					0.088	4	DIG, 1995	Susp. Solids, low& high from 90%CI
Niagara Riv at Niag.on the Lake	1993-1994	39	0.03				0.014	0.055	4	DIG, 1996	Dissolved only, low& high from 90%CI
Niagara Riv at Niag.on the Lake	1993-1994	46	0.006				0.004	0.007	4	DIG, 1996	Susp. Solids, low& high from 90%CI
Niagara River at Fort Erie	1987-1988	49	0.04				0.03	0.05	4	DIG, 1989	Dissolved only, low& high from 90%CI
Niagara River at Fort Erie	1987-1988	48	0.021				0.015	0.03	4	DIG, 1989	Susp. Solids, low& high from 90%CI
Niagara River at Fort Erie	1988-1989	51	0.03				0.022	0.036	4	DIG, 1990	Dissolved only, low& high from 90%CI
Niagara River at Fort Erie	1988-1989	51	0.012				0.01	0.014	4	DIG, 1990	Susp. Solids, low& high from 90%CI
Niagara River at Fort Erie	1989-1990	47	0.08				0.04	0.14	4	DIG, 1992	Dissolved only, low& high from 90%CI
Niagara River at Fort Erie	1989-1990	47	0.012				0.008	0.017	4	DIG, 1992	Susp. Solids, low& high from 90%CI
Niagara River at Fort Erie	1990-1991	49	1.64				0.25	10.71	4	DIG, 1993	Dissolved only, methods under review, low& high from 90%CI
Niagara River at Fort Erie	1990-1991	48	0.019				0.013	0.028	4	DIG, 1993	Susp. Solids, low& high from 90%CI
Niagara River at Fort Erie	1991-1992	47	0.008				0.006	0.01	4	DIG, 1994	Susp. Solids,low& high from 90%CI
Niagara River at Fort Erie	1992-1993	50	0.021				0.002	0.066	4	DIG, 1995	Susp. Solids, low& high from 90%CI
Niagara River at Fort Erie	1993-1994	48	0.004				0.003	0.005	4	DIG, 1996	Susp. Solids, low& high from 90%CI
Niagara River at Fort Erie	1991-1992	46	0.308				0.074	0.769	4	DIG, 1994	Dissolved only, low& high from 90%CI
Niagra River								0.3	2	Monsanto, 1984	
Nueces Estuary, TX	1980	1	0.35				0.21	0.77	2	Ray et al, 1983b	
River at Waste Disch.	1977						1	50	4	Jungclaus et al, 1978	
Rivers USA	<1985	1	10			10			4	Staples et al, 1985	
Rivers USA, industrialized US water basins	<1977						1	85	4	ECETOC, 1985 cites Ewing et al 77	
Saginaw River	1982						0.65	1.9	2	Monsanto, 1984	
South Dakota, Watertown, Brookings, & Volga - U/S & D/S of W	2003-2004	20	1.31		<2		<2	7.2	1	Sando et al., 2005	Detected in 1 of 20 samples (upstream sample)
St. Claire River, Mich	N/A						1.6	4.6	4	Pierce et al, 1978	secondary ref
US Rivers	N/A						0.5	1	4	DeLeon et al, 1986, Hites, 1973;Sheldon and Hites, 1979	
US Surface Water	N/A				10				4	Staples et al, 1985	median; detected in 24% of 901 samples; 4 of Great Lakes
US Surface Water - U/S, effluent, & D/S of 10 WWTPs	N/A				<0.5		<0.5	27	1	Glassmeyer et al., 2005	Detected in 9 of 40 samples
USA - surface water - sources for 19 drinking water plants	2006-2007	19	0.069		<0.12		<0.12	0.17	2	Benotti et al., 2009	Detected at 2 of 19 plants
US Waters	1988-1993					ND			4	Storet, 1995	15.4% >DL, Dissolved and particle bound
US Waters	1988-1993						0.6	100	4	Storet, 1995	15.4% >DL, Dissolved and particle bound
Williamsburgh, OH-Landfill	1982						0.35	0.4	2	Monsanto, 1984	
Surface Drinking Water	1985-1986	18	3					35	4	Spink, 1986	Alberta, Canada; Canadian data quoted for US
US Drinking water	1980-1982							0.17	4	Craun, 1984	
Onondoga Co., NY, Drinking Water	1993						<0.2	<1.0	4	Metropolitan Water Board, 1993	
Philadelphia DW	<1982	1	0.6			0.6		0.6	4	WHO, 1982	in ECPI
New Orleans DW	<1982						0.16	1.2	4	WHO, 1982	in ECPI
Chicago DW	<1982	1	1						4	WHO, 1982	in ECPI
		1484	**0.35**				**<0.002**	**137**			
Black Bay, Lake Superior	N/A							300	3	Mayer et al, 1972	
California, south - 4 water filtration plants; raw drinking water	2001-02	13	0.66		<1.76		<1.76	5.94	1	Loraine and Pettigrove, 2006	Includes surface water and groundwater sources; det. in 2 of 13 samples
Lake Huron	1971							5	3	Mayer et al, 1972	
Missouri River	1971	1	4.9			4.9			3	Mayer et al, 1972	
Philadelphia DW	N/A						0.06	5	3	Keith et al, 1976: Sheldon and Hites, 1979	
Galveston Bay, TX	80-82	1	0.6					600	4	USEPA, 1987	in Wade Miller, 1989
Great Lakes States	N/A						1	1200	4	Johnson et al, 1977	extreme value
Gulf of Mexico	1977	1	0.08				0.006	0.097	4	Giam et al., 1978 b	Giam data low for given date
US streams - 139 streams in 30 states	1999-2000				7		<2.5	20	3	Kolpin, et al. 2002	Detected in 10.6% of samples; sites biased towards ones with suspected contam.
Washington, King County - marine waters	2003-2004						<0.0094	40.5	3	King County, 2007	
Washington, King County - lake waters	2002-2004						<0.0094	13.1	3	King County, 2007	
Washington, King County - streams and rivers	2002-2004						<0.0094	15.8	3	King County, 2007	

Legend

Data, changes or comments added in 2009

Also used in drinking water summary

Excluded from calculated summary

Indicates average based on detection limit

BOLD **Calculated category summary**

Data Quality

1 - Reliable without restrictions

2 - Reliable with restrictions

3 - Not reliable

4 - Unassignable

Location	Date	N	Average	SD	Median	Single Point	Low	High	Quality	Reference	Comments
Washington, King County - stormwater	2003-2004							20.3	3	King County, 2007	
Central Europe											
Aire River, UK	1995-1996	4	8.7				0.36	21	4	Long, et al, 1998	Urban and industrial
Calder River, UK	1995-1996	4	2.8				0.63	5.38	4	Long, et al, 1998	Urban and industrial
Crouch	1982	1	0.07			0.07			4	ECETOC, 1985	
Dee River, UK	1988-1989							0.35	4	Matthiessen, et al, 1993	
Don River, UK	1995-1996	4	5				1.3	8.85	4	Long, et al, 1998	Urban and industrial
Elbe	1977-1983							>0.5	2	Weber et al, 1983	Data not descriptive
Elbe	N/A							6.4	4	Jacobs and Mofid, 1988	
Ems	1977-1983						0.1	0.5	2	Weber et al, 1983	Some early data
Etherow, UK	1984						ND	1.6	4	Fatoki and Vernon, 1990	
France, River Marne (River Seine tributary -upstream Paris)	2002-2004	85	0.334				0.002	0.570	4	Teil et al., 2007	
France, River Seine - Alfortville (upstream Paris)	2002-2004	85	0.323				0.095	0.505	4	Teil et al., 2007	
France, River Seine - AlexandreIII (Paris)	2002-2004	85	0.388				0.065	0.791	4	Teil et al., 2007	
France, River Seine - Argenteuil (downstream Paris)	2002-2004	85	0.688				0.017	1.34	4	Teil et al., 2007	
France, River Seine - Maisons Laffitte (downstream Paris)	2002-2004	85	0.436				0.016	0.745	4	Teil et al., 2007	
France, River Seine - Herblay (downstream Paris)	2002-2004	85	0.779				0.587	0.986	4	Teil et al., 2007	
France, River Seine - ConflansRG (downstream Paris)	2002-2004	85	0.556				0.313	0.756	4	Teil et al., 2007	
France, River Seine - ConflansRD (downstream Paris)	2002-2004	85	0.653				0.306	1.16	4	Teil et al., 2007	
France, River Oise (River Seine tributary - downstream Paris)	2002-2004	85	0.348				0.152	0.444	4	Teil et al., 2007	
France, Marne River - Pont de Neuilly sur Marne	2007 (March)	1	0.307			0.307			1	Dargnat et al., 2009	Rainy conditions - upstream WWTP
France, Marne River - Pont de Champigny sur Marne	2007 (March)	1	0.708			0.708			1	Dargnat et al., 2009	Rainy conditions - upstream WWTP discharge
France, Marne River - Pont de Chennevieres	2007 (March)	1	0.574			0.574			1	Dargnat et al., 2009	Rainy conditions - downstream WWTP discharge
France, Marne River - Pont de Maisons-Alfort	2007 (March)	1	0.522			0.522			1	Dargnat et al., 2009	Rainy conditions - downstream WWTP discharge
German Rivers NRW	1991						0.21	3.1	4	ECPI, 1995 cites LAWA	
Germany Edersee L.	1990	1	0.5						4	ECPI, 1995 cites HLAU Wiesbeden 90	
Germany - rivers, lakes, channels	1997				2.27		0.33	97.8	4	Fromme, et al. 2002	116 samples, various locations
Germany - Rhine River (south)	1999	1	0.1			0.1			4	Alberti, et al. 2000	
Germany - Rhine River	1999	1	0.08			0.08			4	Alberti, et al. 2000	
Germany - Niers River	1999	1	0.47			0.47			4	Alberti, et al. 2000	
Germany - Rhine River (northwest)	1999	1	1.23			1.23			4	Alberti, et al. 2000	
Germany - Vechte River	1999	1	0.13			0.13			4	Alberti, et al. 2000	
Germany - Ems River	1999	1	0.27			0.27			4	Alberti, et al. 2000	
Germany - Hunte River	1999	1	0.09			0.09			4	Alberti, et al. 2000	
Germany -Weser River	1999	1	0.24			0.24			4	Alberti, et al. 2000	
Germany - Elbe River	1999	1	0.32			0.32			4	Alberti, et al. 2000	
Germany - Elbe River	1999	1	0.49			0.49			4	Alberti, et al. 2000	
Germany - Warnow River	1999	1	0.45			0.45			4	Alberti, et al. 2000	
Germany - Peene River	1999	1	0.58			0.58			4	Alberti, et al. 2000	
Germany -Ucker River	1999	1	0.65			0.65			4	Alberti, et al. 2000	
Germany -Oder River	1999	1	0.81			0.81			4	Alberti, et al. 2000	
Germany - Oder River	1999	1	1.06			1.06			4	Alberti, et al. 2000	
Germany -Elbe River	1999	1	1.33			1.33			4	Alberti, et al. 2000	
Germany -Donau River	1999	1	0.07			0.07			4	Alberti, et al. 2000	
Germany - "background" concentration	1999	1	0.4			0.4		3.1	4	Alberti, et al. 2000	
Germany - Rhine river; 8 locations	2001 (March)	8	3.875	2.795	3.15		1.2	9.8	4	Schwarzhauer & Heim, 2005	
Harbor Harburg	1986						1.4	7.3	4	Jacobs et al, 1988	
Humber River, UK	1988-1989							0.58	4	Matthiessen, et al, 1993	
Irwell	1984						ND	0.4	4	Fatoki and Vernon, 1990	
Italy-Rieti District-August	1994						<0.008	31.2	2	Vitali et al, 1997	
Italy-Rieti District-June-July	1994						<0.008	3	2	Vitali et al, 1997	
Italy-Rieti District-Sept-Oct	1994						<0.008	3.1	2	Vitali et al, 1997	
Italy - Tyrrhenian Sea at Quercianella	1999	3	0.097						2	Cincinelli, et al., 2001	Sub-surface water
Italy - Tyrrhenian Sea at Quercianella	1999	3	0.154						2	Cincinelli, et al., 2001	Sea-surface microlayer
Italy - Tyrrhenian Sea - Harbour of Leghorn	1999	3	0.194						2	Cincinelli, et al., 2001	Sub-surface water
Italy - Tyrrhenian Sea - Harbour of Leghorn	1999	3	33						2	Cincinelli, et al., 2001	Sea-surface microlayer
Mersey Estuary	1985						ND	2	4	Preston et al, 1986,1989	
Mersey Estuary	N/A	5	0.3				0.1	0.7	4	Preston and Al-Omran, 1989	dissolved
Mersey Estuary	N/A	5	0.73				0.283	1.367	4	Preston and Al-Omran, 1989	assd. with particulates
Mersey River, UK	88-89							1.5	4	Matthiessen, et al, 1993	
Meuse	1983						<0.1	3.5	4	in Wams, 1987	
Meuse- NL	1977 (Oct)	1	1				0.2	4.2	2	Schouten et al, 1979	GC analysis
Meuse - Netherlands	1988-1990						< 0.1	4.2	4	Bodar, 1996 cited in NCI, 2000	36 samples; monthly for 3 years
Netherlands	N/A				1.8		0.6	7.5	4	van der Velde, et al (RIVM)	
NL Tap Water	1978						0.53	0.55	4	van Vliet et al, 1979	
Netherlands	1999				0.32		<0.9	5	1	Vethaak, et al. 2002	Detected in 81 of 87 samples
Netherlands - rivers	1998 (Aug-Oct)						0.2	1	4	van Stee et al., 2002	
Noord-Brabant	1987-1988						1	6	4	Projectgroep Zwalijs, 1989	18% > DL
Nordrhein-Westfalen Canals (5)	1991-1992	1	0.22						1	Furtmann, 1993	Median
NORS Report-4 of 10 cities	N/A						0.04	30	4	Keith et al, 1976	
North Sea and Great Brit Coast	1986						<0.06	0.25	2	Hurford et al, 1989	
North Sea and Great Brit Coast	1988	38	0.025				<0.05	0.62	2	Hurford et al, 1990	ND in 38 of 40 stations
North Sea-Deutsche Bucht	<1983	1	0.22			0.22			4	Ernst, 1983	in ECPI
North Sea - German Bight	2004 (Feb-Mar)	10	0.0022	0.0018	0.0013		0.00052	0.0053	1	Xie et al., 2005	Dissolved fraction
Ouse River, UK	1995-1996	4	7.8				0.74	21	4	Long, et al, 1998	Largely agricultural
Plymouth Sound, UK	1988-1989							8.4	4	Matthiessen, et al, 1993	
Priel Suderelbe	1986	1	2.3				1.6	2.6	4	Jacobs et al, 1988	
Priel Suderelbe	1986						0.5	4.5	4	UBA, 1987; Jacobs et al, 1988	
Rhine	1979						0.3	1.2	4	IAWR, 1979/80	
Rhine	1978	1	0.2						4	ECETOC, 1985; Van Vliet, 1979	
Rhine	1982						ND	4	4	in Wams, 1987	
Rhine	1983						ND	1.2	4	in Wams, 1987	
Rhine River -12 Consecutive Days	1986	12	1.1				0.4	2.1	1	Ritsema et al, 1989	Water
Rhine River- 4 sites	1991-1992	83	0.84		0.52		0.11	10.3	1	Furtmann, 1993	
Rhine Tribuary-Emscher- special use	1991-1992	21	2.4		1.7		0.57	9.6	1	Furtmann, 1993	
Rhine Tributaries (5 typical)	1991-1992	126	0.55				0.079	6.5	1	Furtmann, 1993	
Rhine, Dusseldorf	1984						0.22	2.7	4	IAWR, 1985	
Rhine, Dusseldorf	1985						0.15	2.7	4	IAWR, 1986	
Rhine, Dusseldorf	1987						0.22	2.9	4	IAWR, 1986/87	
Rhine, Dusseldorf	1986						0.17	3.7	4	IAWR, 1987	
Rhine, Koln	1987						0.24	1.8	4	IAWR, 1986/87	
Rhine, Lobith	1980	1	0.3						4	BUA, 1986	
Rhine, Lobith	1981	1	0.7						4	BUA, 1986	
Rhine, Lobith	1982	1	0.5						4	BUA, 1986	
Rhine, Lobith	1981						0.5	0.7	4	IAWR, 1981/82	
Rhine, Lobith	1979	1	1.2						4	BUA, 1986	
Rhine, Weisbaden	1987						0.25	1.5	4	IAWR, 1986/87	
Rhine, Wesel	1987						0.17	3.7	4	IAWR, 1986/87	
Rhine, Wesel	1988						0.1	50	1	Ritsema, et al, 1989	

Location	Date	N	Average	SD	Median	Single Point	Low	High	Quality	Reference	Comments
Rhine-Haringvliet	1989	1	0.035			0.035			4	Hendriks, et al, 1994	
Rhine-Kampen	1989	1	0.04			0.04			4	Hendriks, et al, 1994	
Rhine-Lobith 15/09	1989	1	0.036			0.036			4	Hendriks, et al, 1994	
Rhine-Lobith 17/03	1989	1	0.063			0.063			4	Hendriks, et al, 1994	
Rhine-Maassluis 22/09	1989	1	0.023			0.023			4	Hendriks, et al, 1994	
Rhine-Maassluis 26/05	1989	1	0.024			0.024			4	Hendriks, et al, 1994	
Rhine-Markermeer	1989	1	0.012			0.012			4	Hendriks, et al, 1994	
Rhine-NL	1977 (Oct)		1				0.3	1.7	2	Schouten et al, 1979	
Rhine-Werkendam	1989	1	0.022			0.022			4	Hendriks, et al, 1994	
Rhine - Netherlands	1988-1990						< 0.1	1.0	4	Bodar, 1996 cited in NCI, 2000	36 samples; monthly for 3 years
Rivers Hessen	1990						<0.5	1.3	4	ECPI, 1995 cites HLAU Wiesbeden 90	
Spain, Barcelona - Llobregat River	N/A	1	0.85			0.85			1	Alzaga et al., 2003	Detection limit = 0.1 ug/L
Spain, Catalonia - Llobregat River basin	2001 (autumn)	11	0.6	0.9	0.31		<0.2	3.09	4	Cespedes et al., 2005	Detected at 6 of 11 locations
Spain, marine water	N/A	1	0.05			<0.1			1	Gimeno et al., 2003	
Spain, Catalonia - River Ebre (Tortosa)	Sept 01-Aug 02						1.94	11.83	1	Brossa et al., 2005	12 monthly samples
Spain, Catalonia - River Ebre (Delta)	Sept 01-Aug 02						1.33	8.41	1	Brossa et al., 2005	12 monthly samples
Spain, Catalonia - Tarragona (industrial port)	Sept 01-Aug 02						<0.05	8.38	1	Brossa et al., 2005	12 monthly samples
Spain, Catalonia - Salou (marina)	Sept 01-Aug 02						2.1	12.74	1	Brossa et al., 2005	12 monthly samples; seawater
Spain, Catalonia - Salou (coast)	Sept 01-Aug 02						0.05	7.16	1	Brossa et al., 2005	12 monthly samples; seawater
Spain, Catalonia - Ebre Delta (irrigation canal)	Sept 01-Aug 02						1.28	12.42	1	Brossa et al., 2005	12 monthly samples
Spain, Catalonia - Ter River basin	2001 (March)	9	0.035				<0.07	<0.07	4	Cespedes et al., 2006	Not detected at any of 9 locations
Spain, south Catalonia - Ebro River	2002?	1	2.10			2.10			1	Brossa et al., 2003	
Spain, south Catalonia - sea water	2002?	1	8.10			8.10			1	Brossa et al., 2003	
Spain, south Catalonia - irrigation stream water	2002?	1	5.21			5.21			1	Brossa et al., 2003	
Spain - sea water	2001?	1	0.12			0.12			4	Brossa et al., 2002	
Spain - Ebro River	N/A	1	0.7			0.7			1	Penalver et al., 2000	
Spain, Tarragona industrial port	N/A	2	1.9				1.62	2.12	1	Penalver et al., 2000	
Spain, Biscay - Urdaibai estuary (natural biosphere)	N/A	3	3.2				2.5	4	1	Cortazar et al., 2002	Detection limit = 3.15 ug/L
Spain, Biscay - Nerbioi-Ibaizabal estuary (industrialized)	N/A	1	10	1					1	Cortazar et al., 2002	Detection limit = 3.15 ug/L
Spain, Barcelona - Llobregat River at Sant Joan Despi waterwo	2002 (Feb)	1	1.67			1.67			2	Lopez-Roldan et al., 2004	DEHP dectected in blanks
Spain - industrial harbour	N/A	1	0.052			<0.103			1	Polo et al., 2005	
Spain - river	N/A	1	0.052			<0.103			1	Polo et al., 2005	
Scotland - SEPA West Region, River Tay, Almond, Tweed	1996	3	1.0	0.55	<1.3		<1.3	1.6	4	Pirie et al., 1996	Detected in 1 of 3 samples
Severn Trent Water, UK	1998	7	2.5		2.3		1.3	4.9	4	Fawell et al, 2001	Raw and treated water
Solent River, UK	1988-1989							<0.05	4	Matthiessen, et al, 1993	
Swale River, UK	1995-1996	3	1.9				1.02	3.55	4	Long, et al, 1998	Upland agricultural
Tees River, UK	1988-1989							2.2	4	Matthiessen, et al, 1993	
Thames River, UK	1988-1989							0.12	4	Matthiessen, et al, 1993	
Trent River, UK	1995-1996	3	11.2				0.74	18	4	Long, et al, 1998	Urban and industrial
Tyne River, UK	1988-1989							0.48	4	Matthiessen, et al, 1993	
UK Estuary	1982						0.058	0.078	4	Waldock, 1983	
UK - urban runoff from light industrial area	N/A	3	1.0		1.0		0.7	1.4	4	Rule et al., 2006	First rain event
Weser	1977-1983						0.1	0.5	2	Weber et al, 1983	Some early data
Weser	1991-1992	1	0.94						1	Furtmann, 1993	
Yssel Lake/River	1986	6	0.15				<0.1	0.3	1	Ritsema et al, 1989 in WHO 92	Water
Yssel- NL	1977 (Oct)	1	1				0.6	2.6	2	Schouten et al, 1979	
Northern Europe											
Brattoya, marine water Norway	1996	1	0.078			0.078			1	NIVA, 1996	
Breviksfjorden, marine water Norway	1996	1	0.009			<0.018			1	NIVA, 1996	
Denmark, Giber A	1998						< 0.2	0.55	4	Boutrup et al., 1998 cited in NCI, 2000	
Denmark, Moddebro baek.	1998						< 0.2	0.87	4	Boutrup et al., 1998 cited in NCI, 2000	
Denmark - Fjord water - Roskilde Vig	1998-99	9	0.074	0.037					2	Vikelsoe et al., 2001	
Denmark - Fjord water - Roskilde Bredning	1998-99	10	0.071	0.025					2	Vikelsoe et al., 2001	
Denmark - Fjord water - Skuldelev	1998-99	3	0.097	0.075					2	Vikelsoe et al., 2001	
Denmark - Fjord water - Frederikssund	1998-99	4	0.191	0.211					2	Vikelsoe et al., 2001	
Denmark - Fjord water - Kulhuse	1998-99	4	0.076	0.062					2	Vikelsoe et al., 2001	
Denmark - Hove A, 5 m upstream	1996	1	0.12			0.12			1	Vikelsoe et al., 1998	
Denmark - Hove A near mouth	1996	1	0.14			0.14			1	Vikelsoe et al., 1998	
Denmark - Hove A upstream Lake Gundsomagle	1998-99	4	0.313	0.218					2	Vikelsoe et al., 2001	Stream and lake water
Denmark - Lake Gundsomagle	1998-99	5	0.408	0.428					2	Vikelsoe et al., 2001	Stream and lake water
Denmark - Hove A downstream Lake Gundsomagle	1998-99	4	0.405	0.510					2	Vikelsoe et al., 2001	Stream and lake water
Denmark - Maglemose A, 5 m upstream	1996	1	0.19			0.19			1	Vikelsoe et al., 1998	
Denmark - Maglemose A near mouth	1996	1	0.73			0.73			1	Vikelsoe et al., 1998	
Denmark - Maglemose A near mouth	1998-99	2	0.158	0.139					2	Vikelsoe et al., 2001	Stream and lake water
Denmark - Helligrenden near mouth	1998-99	4	0.107	0.140					2	Vikelsoe et al., 2001	Stream and lake water
Faerder, marine water Norway	1996					NQ			1	NIVA, 1996	
Femunden Lake, Norway	1996	1	0.03			<0.06			1	NIVA, 1996	
Fracksjon, reference lake, Sweden	1996	3	0.007	0.006					4	Parkman and Remberger, 1996	
Frierflaket, marine water Norway	1996	1	0.03			<0.06			1	NIVA, 1996	
Fuglevik, marine water Norway	1996	1	0.03			<0.06			1	NIVA, 1996	
Fyrisan (Uppsala), Sweden	1996	3	0.193	0.115					4	Parkman and Remberger, 1996	upstream of sewage treatment plant, oily surface film at 1 of 3 sampling pts
Gasoyrenna, marine water Norway	1996	1	0.009			<0.018			1	NIVA, 1996	
Gullaugbukta, marine water Norway	1996	1	0.009			<0.018			1	NIVA, 1996	
Harsvatten, reference lake, Sweden	1996	3	0.01	0.002					4	Parkman and Remberger, 1996	
Heddalsvatn Lake, Norway	1996	1	0.03			<0.06			1	NIVA, 1996	
Holmen, marine water Norway	1996	1	0.03			<0.06			1	NIVA, 1996	
Langesundsbukta, marine water Norway	1996	1	0.03			<0.06			1	NIVA, 1996	
Lundevatn Lake, Norway	1996	1	0.144			0.144			1	NIVA, 1996	
Mjosa Furnesfjorden Lake, Norway	1996	1	0.03			<0.06			1	NIVA, 1996	
Mjosa Gjovik Lake, Norway	1996	1	0.182			0.182			1	NIVA, 1996	
Mjosa Hamar Lake, Norway	1996	1	0.009			<0.018			1	NIVA, 1996	
Motola Strom, Sweden	1996	3	0.018	0.017					4	Parkman and Remberger, 1996	downstream of sewage treatment plant
Ormoya, marine water, Norway	1996	1	0.375			0.375			1	NIVA, 1996	
Orrolmsviken (Karlstadt) Sweden	1996	3	0.075	0.034					4	Parkman and Remberger, 1996	close to drainage outlet
Riddarfjarden (ice out) Sweden	1996	1	0.072						4	Parkman and Remberger, 1996	receives Stockholm overflow storm sewers & snow dumps
Riddarfjarden (under ice) Sweden	1996	3	0.015						4	Parkman and Remberger, 1996	receives Stockholm overflow storm sewers & snow dumps
Ronnebyan-Near Ind Disch	1985						0.66	3.1	2	Thuren, 1986	
Ronnebyan-Upstream Ind Disch	1985						0.32	1.78	2	Thuren, 1986	
Slemmestad (VEAS), marine water Norway	1996	1	0.03			<0.06			1	NIVA, 1996	
Svartan River, Sweden	1996	3	0.022						4	Parkman and Remberger, 1996	near Orebro town center
Svartan-Downstream Ind Disch	1985	1	0.39			0.39			2	Thuren, 1986	
Svartan-Near Ind Disch	1985	1	1.98			1.98			2	Thuren, 1986	
Svartan-US Ind Disch	1985						0.39	0.52	2	Thuren, 1986	
		1298	**0.75**				**0.00052**	**97.8**			
France, local production site, small river	2000						1.1	7.4	4	Basseres, 2000 cited in NCI, 2000	
Italy, northern - 2 km upstream of WWTP discharge	2007 (Jan-May)	6	0.449	0.957	0.064		0.0400	2.4024	3	Bicchi et al., 2009	No info about receiving water; conc. upstream of WWTP > downstream
Italy, northern - 2 km downstream of WWTP discharge	2007 (Jan-May)	6	0.171	0.139	0.123		0.0193	0.3869	3	Bicchi et al., 2009	
Sweden, Lake Malaren	1994	3	3.1			3.1			3	Parkman & Remberger, 1995	P&R 96 says data quality low

Location	Date	N	Average	SD	Median	Single Point	Low	High	Quality	Reference	Comments
Canada											
Alberta	84-99	1056	3.84	16.36	0.5		0.05	336	4	AENV R. Tchir, 1999	Database Analysed by O'Connor
Alberta/British Columbia	85-88						<1	14	4	NAQUADAT, 1993	
Alberta - N. Sask. River - downstream of WWTP effluent	2002 (Dec)	1	0.0755			0.0755			1	Alberta Environment, 2005	
Alberta - Bow River - downstream of WWTP effluent	2003 (Jan)	1	0.6841			0.6841			1	Alberta Environment, 2005	
Alberta - Oldman River - downstream of WWTP effluent	2003 (Jan)	1	2.0558			2.0558			1	Alberta Environment, 2005	
Alberta - S. Sask. River - upstream of Medicine Hat	2003 (Jan)	1	0.7588			0.7588			1	Alberta Environment, 2005	
Alberta - Red Deer River - downstream of WWTP effluent	2003 (Jan)	1	1.715			1.715			1	Alberta Environment, 2005	
B.C. - False Creek Harbour, sea water - total conc.	N/A	4	0.275				0.170	0.444	1	Mackintosh et al., 2006	Detected in 4 of 12 samples; average is for detected values
B.C. - False Creek Harbour, sea water - freely dissolved	N/A	4	0.124				0.0766	0.200	1	Mackintosh et al., 2006	Detected in 4 of 12 samples; average is for detected values
Canada, Chateauguay River	1993						<7	140	4	Berryman, 1996	SPMD
Canada, Chaudiere River	N/A						7	28	4	Berryman, 1998	SPMD
St. Clair River, Ontario	1992	1	6.1			6.1			4	MISA-OME, 1992	Chem Plant Intake
St. Clair River, Ontario	1992	1	7.1			7.1			4	MISA-OME, 1992	Chem Plant Intake
St. Clair River, Ontario	89-90						0.4	19	4	MOE, 1992	Reported in O'Connor, 1996
Great Lakes Basin	89-91						0.22	65.1	4	MOE, 1992	Reported in O'Connor, 1996
Petroleum Refining Sector - 7 Refineries	89-90	1	1.9				1.4	11	4	MOE, 1989 and 1992	Reported in O'Connor, 1996
St. Lawrence at Montreal	87		0.078						4	Germain and Langlois, 1988	
Municipalities, Quebec	1992	22	0.5						4	MENVIQ, 1993	N=22, 11 Municipalities, raw drink water
Niagra/Lake Ontario Drink Water	1984							1	4	OME, 1984	
		1094	**3.74**				**0.05**	**336**			
Alberta industrial data points (subset)	84-99	607	5.69	19.66	3		0.05	336	4	AENV R. Tchir, 1999	Database Analysed by O'Connor
Alberta rural data points (subset)	84-99	367	0.78	1.33	0.5		0.05	14	4	AENV R. Tchir, 1999	Database Analysed by O'Connor
Alberta urban data points (subset)	84-99	78	1.16	2.22	0.5		0.05	11	4	AENV R. Tchir, 1999	Database Analysed by O'Connor
Quebec, Montreal - St. Lawrence River	N/A	1	180			180			3	Horn et al., 2004	
Quebec, Montreal - Creek draining an industrial area	N/A	1	47			47			3	Horn et al., 2004	
Alberta	87-92	1237	<1				<1	8	4	Halina, 1993	included in AENV data
Alberta	N/A		6.7	23			1	563	4	Alberta Env. Protection, 1996	
Alberta	<1990		3.5						4	Alberta Env. Protection, 1996	
Alberta	>1990		7.4						4	Alberta Env. Protection, 1996	Increase atributed to change in detection limit
Alberta Drinking Water	87-95	2105					1	54	4	Alberta Env. Protection, 1996	Some cont. in blanks
Alberta Drinking Water	<1990	632	2	3.8			1	54	4	Alberta Env. Protection, 1996	
Alberta Drinking Water	>1990	682	0.79	3.8			1	37	4	Alberta Env. Protection, 1996	
Alberta Municipalities	87-92	45	<1						4	Alberta Min of Env, Halina, 1993	Detected in 5 of 45; in AENV, 1999 data
Alberta Rural	N/A	421	1.6	2.9					4	Alberta Env. Protection, 1996	
Alberta Rural	<1990	183	2.4						4	Alberta Env. Protection, 1996	
Alberta Rural	>1990	283	1						4	Alberta Env. Protection, 1996	
Alberta Urban Surface Water	N/A		4.5	11					4	Alberta Env. Protection, 1996	
Alberta Urban Surface Water	<1990		2.1						4	Alberta Env. Protection, 1996	
Alberta Urban Surface Water	>1990	46	5	12					4	Alberta Env. Protection, 1996	
Japan/Asia											
China, Beijing - Haidian District, Jingmi Canal	2006	1	0.53			0.53			4	Li et al., 2008	
China, Beijing - Haidian District, Xiaoqing River	2006	1	1.36			1.36			4	Li et al., 2008	
China, Guangzhou City - urban lakes, 15 locations	2005 (May)	15	0.24		0.17		0.087	0.63	1	Zeng et al., 2008a	Det. in 100% samples
China - Yellow River at Xiaolangdi	2004 (June)	3	24.0	0.07					4	Sha et al., 2007	
China - Yellow River at Mengjin	2004 (June)	3	0.347	0.01					4	Sha et al., 2007	
China - Yellow River at Jiaogong	2004 (June)	3	3.24	0.72					4	Sha et al., 2007	
China - Yellow River at Zhengzhou	2004 (June)	3	15.0	1.16					4	Sha et al., 2007	
China - Yellow River at Kaifeng	2004 (June)	3	16.0	3.52					4	Sha et al., 2007	
China - Yellow River at Dongming	2004 (June)	3	14.0	0.26					4	Sha et al., 2007	
China - Yellow River tributary - Luoyang Petrochemical Channel	2004 (June)	3	20.3	0.42					4	Sha et al., 2007	
China - Yellow River tributary - Mengzhou	2004 (June)	3	3.912	0.08					4	Sha et al., 2007	
China - Yellow River tributary - Yiluo	2004 (June)	3	31.8	2.28					4	Sha et al., 2007	
China - Yellow River tributary - Xinmang	2004 (June)	3	5.86	0.25					4	Sha et al., 2007	
China - Yellow River tributary Mangqin	2004 (June)	3	23.0	0.48					4	Sha et al., 2007	
China - Yellow River tributary - Wenyan Channel	2004 (June)	3	17.48	0.36					4	Sha et al., 2007	
China - Yangtze River, Wuhan Section; Zhuankou	2005 (July)	1	0.011	0.002					4	Wang, F. et al., 2008	High water period
China - Yangtze River, Wuhan Section; Baishazhou	2005 (July)	1	0.016	0.003					4	Wang, F. et al., 2008	High water period
China - Yangtze River, Wuhan Section; Wuhanguan	2005 (July)	1	0.026	0.007					4	Wang, F. et al., 2008	High water period
China - Yangtze River, Wuhan Section; Left Yujiatou	2005 (July)	1	0.028	0.006					4	Wang, F. et al., 2008	High water period
China - Yangtze River, Wuhan Section; Right Yujiatou	2005 (July)	1	0.012	0.002					4	Wang, F. et al., 2008	High water period
China - Yangtze River, Wuhan Section; Jinkou	2005 (Dec)	1	3.90	0.87					4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Zhuankou	2005 (Dec)	1	30.26	2.11					4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Wuhanguan	2005 (Dec)	1	43.01	2.85					4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Yangluo	2005 (Dec)	1	54.73	2.53					4	Wang, F. et al., 2008	Low water period
Dohkai-B1	1982						0.3	0.3	4	Kishi, 1996	
Dohkai-B2	1982						0.3	0.5	4	Kishi, 1996	
Gulf of Thailand	83-84						<1	10	4	Onodera et al, 1987	in ECPI
Himeji-Off Coast	1982						0.1	0.21	4	Kishi, 1996	
Japan Rivers	<1979						0.1	2.2	4	ECETOC, 1985;BUA, 1986	
Japan Rivers	1974						0.08	15	4	Japan MOE, 2003	Detected in 176 of 375 samples; det. limit of 0.01 to 2 ug/L
Japan Rivers	1975						0.02	1.1	4	Japan MOE, 2003	Detected in 58 of 115 samples; det. limit of 0.01 to 3 ug/L
Japan Rivers	1974						0.1	2.19	4	Goto, 1979	in ECPI
Japan Rivers	1974						ND	3.1	4	Kodama et al, 1975	in ECPI
Japan Rivers	<1979							0.68	4	Kubota, 1979; Tomita et al, 1977	Kubota lists this as ave for water, with 47% detection rate for 375 samples)
Japan Rivers	N/A						<0.2	9.4	4	Mitsubishi Chemical; in API, 1998	
Japan Rivers-Downstream	N/A						0.2	0.9	4	Yano, 1979	
Japan Rivers-Midstream	N/A						0.2	0.6	4	Yano, 1979	
Japan Rivers-Upstream	N/A						0.3	0.8	4	Yano, 1979	
Japan - surface water	1982						0.1	0.8	4	Japan MOE, 2003	Detected in 29 of 45 samples; det. limit 0.04 to 0.15 ug/L
Japan - surface water	1996				<3.9		4.3	6.8	4	Japan MOE, 2003	Detected in 4 of 33 samples; det. limit 3.9 ug/L
Japan - Rivers and Dams; 109 water systems	early 1998	256	0.69		0.2		<0.2	9.4	2	MOC, 1999a and c	Detected at 131 of 256 sites
Japan - Rivers and Dams; 109 water systems	late 1998	261	0.22		<0.2		<0.2	4.8	2	MOC, 1999a and c	Detected at 96 of 261 sites
Japan - Rivers and Dams; 109 water systems	summer 1999	261	0.2		<0.2		<0.2	2.4	2	MOC, 1999a and c	Detected at 66 of 261 sites
Japan - Major rivers	spring 1999	31	0.37		0.2		<0.2	2.1	4	MOC, 1999b	Detected at 19 of 31 sites
Japan - Rivers - general watersheds	summer 1998	100	0.77		0.3		<0.3	9.9	4	Japan MOE, 1999b	Detected at 57 of 100 sites
Japan - Rivers - general watersheds	autumn 1998	139	0.25		<0.3		<0.3	4.0	4	Japan MOE, 1999b	Detected at 25 of 139 sites
Japan - Lakes - general watersheds	summer 1998	5	0.42		<0.3		<0.3	1.5	4	Japan MOE, 1999b	Detected at 1 of 5 sites
Japan - Lakes - general watersheds	autumn 1998	5	0.15		<0.3		<0.3	<0.3	4	Japan MOE, 1999b	Not detected at any of 5 sites
Japan - Sea areas - general watersheds	summer 1998	17	1.1		0.6		<0.3	4.2	4	Japan MOE, 1999b	Detected at 10 of 17 sites
Japan - Sea areas - general watersheds	autumn 1998	18	0.21		<0.3		<0.3	0.6	4	Japan MOE, 1999b	Detected at 3 of 18 sites
Japan - Rivers, sea - priority watersheds	1999?	101	0.69		<0.3		<0.3	4.9	4	JEA, 1999	Detected at 37 of 101 sites
Japan - freshwater	1998	1883	0.16				0.01	19	4	Naito et al., 2006 (Japan MOE data)	Low value is 5th %; 95th% = 2.13 ug/L; some data are duplicated in Japan MOE ref.
Japan - saltwater	1998	209	0.20				0.02	10	4	Naito et al., 2006 (Japan MOE data)	Low value is 5th %; 95th% = 2.11 ug/L; some data are duplicated in Japan MOE ref.
Japan - freshwater	1999	2141	0.12				0.01	58	4	Naito et al., 2006 (Japan MOE data)	Low value is 5th %; 95th% = 1.49 ug/L; some data are duplicated in Japan MOE ref.
Japan - saltwater	1999	235	0.09				0.01	4.4	4	Naito et al., 2006 (Japan MOE data)	Low value is 5th %; 95th% = 1.03 ug/L; some data are duplicated in Japan MOE ref.
Japan - Rivers	2000 (Jan.-Feb.)	124	0.47		<0.3		<0.3	6.6	4	Japan MOE, 2000b	Detected in 43 of 124 samples
Japan - Lakes	2000 (Jan.-Feb.)	6	0.23		<0.3		<0.3	0.6	4	Japan MOE, 2000b	Detected in 1 of 6 samples
Japan - Coastal sea water	2000 (Jan.-Feb.)	17	0.18		<0.3		<0.3	0.4	4	Japan MOE, 2000b	Detected in 2 of 17 samples

Location	Date	N	Average	SD	Median	Single Point	Low	High	Quality	Reference	Comments
Japan - freshwater	2000	1529	0.09				<0.01	42	4	Naito et al., 2006 (Japan MOE data)	Low value is 5th %; 95th% = 2.46 ug/L; some data are duplicated in Japan MOE ref.
Japan - saltwater	2000	229	0.04				<0.01	14	4	Naito et al., 2006 (Japan MOE data)	Low value is 5th %; 95th% = 1.55 ug/L; some data are duplicated in Japan MOE ref.
Japan - Rivers	2001 (Jan.-Mar.)	124	0.47		<0.3		<0.3	6.9	4	Japan MOE, 2001a	Detected in 43 of 124 samples
Japan - Lakes	2001 (Jan.-Mar.)	5	0.45		<0.3		<0.3	1.0	4	Japan MOE, 2001a	Detected in 2 of 5 samples
Japan - Coastal sea water	2001 (Jan.-Mar.)	17	0.21		<0.3		<0.3	0.6	4	Japan MOE, 2001a	Detected in 4 of 17 samples
Japan - freshwater	2001	1673	0.08				<0.01	21	4	Naito et al., 2006 (Japan MOE data)	Low value is 5th %; 95th% = 2.25 ug/L; some data are duplicated in Japan MOE ref.
Japan - saltwater	2001	213	0.03				<0.01	9	4	Naito et al., 2006 (Japan MOE data)	Low value is 5th %; 95th% = 0.80 ug/L; some data are duplicated in Japan MOE ref.
Japan - freshwater	2002	1559	0.07				<0.01	42	4	Naito et al., 2006 (Japan MOE data)	Low value is 5th %; 95th% = 2.21 ug/L
Japan - saltwater	2002	237	0.01				<0.01	10	4	Naito et al., 2006 (Japan MOE data)	Low value is 5th %; 95th% = 0.52 ug/L
Kanmon-Str	1982						0.1	0.3	4	Kishi, 1996	
Kinura-P	1982						<0.1		4	Kishi, 1996	
Japan - Kitakyshu	1980	1	7.2			7.2			4	Shinohara et al, 1981	in ECPI
Kohbe-P	1982						<0.1	0.44	4	Kishi, 1996	
Lake Biwa	93-97	10	0.5				ND	1	4	Ass Plasticizer Ind, Japan, 1998,97,96,95	LOD=1ug/l, 9 ND's
Lake Okutama	93-97	10	0.5				ND	ND	4	Ass Plasticizer Ind, Japan, 1998,97,96,95	LOD=1ug/l, all ND
Miyashiro River	<1982							7.6	4	WHO, 1982	
Mizushima-Off Coast 1	1982						0.7	0.8	4	Kishi, 1996	
Mizushima-Off Coast 2	1982						0.1	0.6	4	Kishi, 1996	
Nagoya- Out P2	1982						<0.1		4	Kishi, 1996	
Nagoya-P1	1982						<0.1		4	Kishi, 1996	
Japan - Osaka Bay seawater-2 locations	93-97	16	0.5				ND	ND	4	Ass Plasticizer Ind, Japan, 1998,97,96,95	LOD=1ug/L, all ND
Sendai B2	1982						0.1	0.3	4	Kishi, 1996	
Sendai-B1	1982						0.1	0.2	4	Kishi, 1996	
Takasago-Off Coast	1982						0.12	0.21	4	Kishi, 1996	
Japan - Tama R-Hokkaido	<1982						2	5	4	WHO, 1982	
Japan - Tama River-3 Locations	93-97	30	0.5				ND	2	4	Ass Plasticizer Ind, Japan, 1998,97,96,95	LOD=1ug/l, 26 ND's
Japan - Tama R-Tokyo	1973	24	2.45				0.5	6.8	2	Morita et al, 1974	
Japan - Tokyo Bay seawater-2 locations	93-97	16	0.5				ND	ND	4	Ass Plasticizer Ind, Japan, 1998,97,96,95	LOD=1ug/L, all ND
Japan - Tokyo - Tama River site #1 (upstream)	1999-2000						0.013	0.52	1	Suzuki, et al. 2001	12 monthly samples
Japan - Tokyo - Tama River site #2	1999-2000						0.110	1.46	1	Suzuki, et al. 2001	12 monthly samples
Japan - Tokyo - Tama River site #3	1999-2000						0.15	3.2	1	Suzuki, et al. 2001	12 monthly samples
Japan - Tokyo - Tama River site #4 (downstream)	1999-2000						0.082	3.25	1	Suzuki, et al. 2001	12 monthly samples
Japan - Tokyo - Aki River	1999-2000						0.021	0.18	1	Suzuki, et al. 2001	12 monthly samples
Japan - Tokyo - Asa River	1999-2000						<0.004	3.60	1	Suzuki, et al. 2001	12 monthly samples
Japan - Tsurumi-R	1982						<0.15		4	Kishi, 1996	
Japan - Yodo River-3 locations	93-97	30	0.5				ND	2	4	Ass Plasticizer Ind, Japan, 1998,97,96,95	LOD=1ug/l, 29 ND's
Japan - Yokohama-P	1982						<0.15		4	Kishi, 1996	
Japan - Yokohama Drinking Water	93-97	10	0.5				ND	1	4	Ass Plasticizer Ind, Japan, 1998,97,96,95	LOD=1ug/l, 9 ND's
Japan - Tokyo Drinking Water	93-97	10	0.5				ND	ND	4	Ass Plasticizer Ind, Japan, 1998,97,96,95	LOD=1ug/l,all ND
Japan - Tokyo purified water	1973?	5	1.8				1.2	3.1	2	Morita et al, 1974	5 water supplies
Japan - Tokyo raw water (for supplies)	1973?	5	2.7				1.7	4.7	2	Morita et al, 1974	5 water supplies
Japan - Tokyo tapwater	1973?	5	1.3				1.2	1.8	2	Morita et al, 1974	from 5 water supplies
Japan - Tokyo wellwater	1973?	5	0.5				ND	ND	2	Morita et al, 1974	
Japan - Osaka Drinking Water	93-97	10	0.5				ND	1	4	Ass Plasticizer Ind, Japan, 1998,97,96,95	LOD=1ug/l, 9 ND's
Japan - Kakogawa Drinking Water	93-97	10	0.5				ND	ND	4	Ass Plasticizer Ind, Japan, 1998,97,96,95	LOD=1ug/l, all ND
Japan - Lake Okutama	1999-2007	11	0.2				<0.2	<1	4	CERI, 2007	Det. limit 0.2 and 1 ug/L
Japan - Tama River, Hamura Intake	1999-2007	11	0.2				<0.2	<1	4	CERI, 2007	Det. limit 0.2 and 1 ug/L
Japan - Tama River, Hutago-bashi	1999	2	0.5				<1	<1	4	CERI, 2007	
Japan - Tama River, Hutago-bashi	2000	2	1.1				<0.2	2	4	CERI, 2007	
Japan - Tama River, Hutago-bashi	2001	1	0.5			0.5			4	CERI, 2007	
Japan - Tama River, Hutago-bashi	2002	1	0.3			0.3			4	CERI, 2007	
Japan - Tama River, Hutago-bashi	2003	1	0.2			0.2			4	CERI, 2007	
Japan - Tama River, Hutago-bashi	2004	1	0.2			0.2			4	CERI, 2007	
Japan - Tama River, Hutago-bashi	2005	1	0.4			0.4			4	CERI, 2007	
Japan - Tama River, Hutago-bashi	2006	1	0.1			<0.2			4	CERI, 2007	
Japan - Tama River, Hutago-bashi	2007	1	0.2			0.2			4	CERI, 2007	
Japan - Tama River, Taishi-bashi	1999	2	0.5				<1	<1	4	CERI, 2007	
Japan - Tama River, Taishi-bashi	2000	2	0.2				<0.2	0.3	4	CERI, 2007	
Japan - Tama River, Taishi-bashi	2001	1	0.4			0.4			4	CERI, 2007	
Japan - Tama River, Taishi-bashi	2002	1	0.4			0.4			4	CERI, 2007	
Japan - Tama River, Taishi-bashi	2003	1	0.3			0.3			4	CERI, 2007	
Japan - Tama River, Taishi-bashi	2004	1	0.2			0.2			4	CERI, 2007	
Japan - Tama River, Taishi-bashi	2005	1	0.1			<0.2			4	CERI, 2007	
Japan - Tama River, Taishi-bashi	2006	1	0.1			<0.2			4	CERI, 2007	
Japan - Tama River, Taishi-bashi	2007	1	0.1			<0.2			4	CERI, 2007	
Japan - Tokyo Bay A	1999	2	0.5				<1	<1	4	CERI, 2007	
Japan - Tokyo Bay A	2000	1	0.1			<0.2			4	CERI, 2007	
Japan - Tokyo Bay A	2001	1	0.4			0.4			4	CERI, 2007	
Japan - Tokyo Bay A	2002	1	0.1			<0.2			4	CERI, 2007	
Japan - Tokyo Bay A	2003	1	0.2			0.2			4	CERI, 2007	
Japan - Tokyo Bay A	2004	1	0.1			<0.2			4	CERI, 2007	
Japan - Tokyo Bay A	2005	1	0.1			<0.2			4	CERI, 2007	
Japan - Tokyo Bay A	2006	1	0.1			<0.2			4	CERI, 2007	
Japan - Tokyo Bay A	2007	1	0.1			<0.2			4	CERI, 2007	
Japan - Tokyo Bay B	1999	2	1.8				<1	3	4	CERI, 2007	
Japan - Tokyo Bay B	2000	1	0.1			<0.2			4	CERI, 2007	
Japan - Tokyo Bay B	2001	1	0.1			<0.2			4	CERI, 2007	
Japan - Tokyo Bay B	2002	1	0.1			<0.2			4	CERI, 2007	
Japan - Tokyo Bay B	2003	1	0.7			0.7			4	CERI, 2007	
Japan - Tokyo Bay B	2004	1	0.1			<0.2			4	CERI, 2007	
Japan - Tokyo Bay B	2005	1	0.1			<0.2			4	CERI, 2007	
Japan - Tokyo Bay B	2006	1	0.3			0.3			4	CERI, 2007	
Japan - Tokyo Bay B	2007	1	0.1			<0.2			4	CERI, 2007	
Japan - Lake Biwa, Omi-ohashi	1999-2007	11	0.2				<0.2	<1	4	CERI, 2007	Det. limit 0.2 and 1 ug/L; det. in 1 sample = 0.2 ug/L
Japan - Uji River, Kangetsu-bashi	1999-2007	11	0.2				<0.2	<1	4	CERI, 2007	Det. limit 0.2 and 1 ug/L; det. in 2 samples = 0.3 and 0.4 ug/L
Japan - Yodo River, Hirakata-ohashi	1999	2	0.5				<1	<1	4	CERI, 2007	
Japan - Yodo River, Hirakata-ohashi	2000	2	0.2				<0.2	0.3	4	CERI, 2007	
Japan - Yodo River, Hirakata-ohashi	2001	1	0.1			<0.2			4	CERI, 2007	
Japan - Yodo River, Hirakata-ohashi	2002	1	0.8			0.8			4	CERI, 2007	
Japan - Yodo River, Hirakata-ohashi	2003	1	0.4			0.4			4	CERI, 2007	
Japan - Yodo River, Hirakata-ohashi	2004	1	0.1			<0.2			4	CERI, 2007	
Japan - Yodo River, Hirakata-ohashi	2005	1	0.1			<0.2			4	CERI, 2007	
Japan - Yodo River, Hirakata-ohashi	2006	1	0.1			<0.2			4	CERI, 2007	
Japan - Yodo River, Hirakata-ohashi	2007	1	0.1			<0.2			4	CERI, 2007	
Japan - Yodo River, Denpo-ohashi	1999	2	0.5				<1	<1	4	CERI, 2007	
Japan - Yodo River, Denpo-ohashi	2000	2	0.1				<0.2	<0.2	4	CERI, 2007	
Japan - Yodo River, Denpo-ohashi	2001	1	0.2			0.2			4	CERI, 2007	
Japan - Yodo River, Denpo-ohashi	2002	1	0.5			0.5			4	CERI, 2007	
Japan - Yodo River, Denpo-ohashi	2003	1	0.1			<0.2			4	CERI, 2007	
Japan - Yodo River, Denpo-ohashi	2004	1	0.1			<0.2			4	CERI, 2007	

Location	Date	N	Average	SD	Median	Single Point	Low	High	Quality	Reference	Comments
Japan - Yodo River, Denpo-ohashi	2005	1	0.1			<0.2			4	CERI, 2007	
Japan - Yodo River, Denpo-ohashi	2006	1	0.1			<0.2			4	CERI, 2007	
Japan - Yodo River, Denpo-ohashi	2007	1	0.1			<0.2			4	CERI, 2007	
Japan - Osaka Bay A	1999	2	0.5				<1	<1	4	CERI, 2007	
Japan - Osaka Bay A	2000	1	0.1			<0.2			4	CERI, 2007	
Japan - Osaka Bay A	2001	1	0.1			<0.2			4	CERI, 2007	
Japan - Osaka Bay A	2002	1	1.1			1.1			4	CERI, 2007	
Japan - Osaka Bay A	2003	1	0.2			0.2			4	CERI, 2007	
Japan - Osaka Bay A	2004	1	0.5			0.5			4	CERI, 2007	
Japan - Osaka Bay A	2005	1	0.1			<0.2			4	CERI, 2007	
Japan - Osaka Bay A	2006	1	0.1			<0.2			4	CERI, 2007	
Japan - Osaka Bay A	2007	1	0.1			<0.2			4	CERI, 2007	
Japan - Osaka Bay B	1999	2	1.3				<1	2	4	CERI, 2007	
Japan - Osaka Bay B	2000	1	0.1			<0.2			4	CERI, 2007	
Japan - Osaka Bay B	2001	1	0.1			<0.2			4	CERI, 2007	
Japan - Osaka Bay B	2002	1	0.8			0.8			4	CERI, 2007	
Japan - Osaka Bay B	2003	1	0.2			0.2			4	CERI, 2007	
Japan - Osaka Bay B	2004	1	0.3			0.3			4	CERI, 2007	
Japan - Osaka Bay B	2005	1	0.1			<0.2			4	CERI, 2007	
Japan - Osaka Bay B	2006	1	0.1			<0.2			4	CERI, 2007	
Japan - Osaka Bay B	2007	1	0.1			<0.2			4	CERI, 2007	
Korea - nationwide survey of 43 sites	N/A						ND	1.96	4	Choi et al., 2001	Detected in 20 of 43 samples
Russia, Lake Baikal - surface water	1996 (Sept)	2	1.1				1.0	1.2	1	Baram et al., 2000	
Russia, Lake Baikal - deep water	1996 (Sept)	2	0.65				0.6	0.7	1	Baram et al., 2000	
Taiwan - rivers	2000 (Jan.-Aug.)	14	9.3				<1.0	18.5	4	Yuan, et al. 2002	Sample locations described as heavily contaminated
Thailand Rivers	83-84						<1	5	4	Onodera et al, 1987	in ECPI
		11800	**0.23**				**<0.004**	**58**			
Taiwan	95-96	1	198.4	5.6					4	Yin and Su, 1996	
Other											
South Africa, Eastern Cape - East London harbour	2000						0.06	197.4	2	Fatoki and Noma, 2001	
South Africa, Eastern Cape - Port Elizabeth harbour	2000						2.1	2306.8	2	Fatoki and Noma, 2001	
South Africa, Eastern Cape - Major rivers + Sandile Dam	2000						4.6	90.5	2	Fatoki and Noma, 2001	
Norwegian Coast - dissolved phase; marine	2004 (summer)	5	0.000981		0.000407		0.000218	0.003326	1	Xie et al., 2007	
Arctic - dissolved phase; marine	2004 (summer)	8	0.000268		0.000182		0.000119	0.000688	1	Xie et al., 2007	
Central - dissolved phase; marine	2004 (summer)	3	0.000036		0.00004		<0.000024	0.000044	1	Xie et al., 2007	
Antarctica: Terranova Bay	1988						0.48	0.28	4	Desideri et al, 1989	
Australia-Melbourne Domestic water	1994		<20						4	Wilkie, et al, 1996	
Indian Ocean	1983						0.1	14	4	Smirnov et al. 1984	in ECPI
Sea Water	N/A						0.005	0.07	4	Giam et al, 1978a	
USSR-East Sea	1984					0.01			4	Chernyak et al, 1985	in ECPI
Nigeria, Obafemi Awolowo University; U/S sewage discharge	2002-2003	8	12,999		11,870		2,240	31,860	3	Ogunfowokan et al., 2006	Monthly samples for 8 months
Nigeria, Obafemi Awolowo University; D/S sewage discharge	2002-2003	32	80,370		27,025		10,760	340,580	3	Ogunfowokan et al., 2006	Monthly samples for 8 months

BIS (2-EthylHexyl) Phthalate **Groundwater**

Concentration in ug/L

Location	Date	N	Average	SD	Median	Single Point	Range Low	Range High	Data Quality	Reference	Comments
Canada	Canadian groundwater data are included in Drinking Water summary										
USA											
Ft. Devens, MA, wastewater infilt	78-81	1	1.4			1.4			4	Bedient, et al, 1983	wells under waste infiltration site
Miami, FL	N/A	1	30						4	USEPA, 1987	in Wade Miller, 1989
New Castle, DE-Landfill	N/A							100	4	USEPA, 1987	in Wade Miller, 1989
New York State	1980							470	4	NTIS, 1981	
Santa Cruz, CA	N/A						8.7	102	4	CA Dept of Health-Unpub	% small water systems, less than 200 connections
Raw DW, 30 public wells, NY	N/A						ND	170	4	Kim and Stone, 1980	in Kohlie et al., 1989
New York State (DW)	1979							170	4	in Wams, 1987	in 92% of samples
		2	**15.7**				**ND**	**470**		**ND not specified**	
Europe											
Hessen-Grebenau Springwater	N/A						0.35	0.71	4	Schleyer, 1991	
Hessen-Konigstein Springwater	N/A						0.31	0.98	4	Schleyer, 1991	
Hessen-Morfelden Groundwater	N/A	1	0.67						4	Schleyer, 1991	
Hessen-Witzenhausen Springwater	N/A						0.46	1.1	4	Schleyer, 1991	
Not near Landfill	91-92	1	10.9			10.9			1	Furtmann, 1993	
Netherlands	N/A	1	1.2		1.2		1	1.4	4	van der Velde, et al.	
Spain, Barcelona - at Sant Joan Despi waterworks	2002 (Feb)	1	5.66			5.66			2	Lopez-Roldan et al., 2004	DEHP dectected in blanks
U.K. public water supply	1983	7	0.07				ND	0.1	4	Kenrick et al., 1985; cited in NCI, 2000	
		11	**1.7**				**<0.07**	**10.9**			
Netherlands-contaminated	1984						20	45	4	in Wams, 1987	
Netherlands - surface water from waste tip	<1975						5000	12000	4	ECETOC, 1985; cited in NCI, 2000	
Japan/Asia											
Japan - Moriguchi City	1993-97	10	0.5				ND	1	4	Ass Plasticizer Ind, Japan, 1998,97,96,95	LOD=1ug/l,9 ND's
Japan - Osaka City	1993-97	10	0.5				ND	1	4	Ass Plasticizer Ind, Japan, 1998,97,96,95	LOD=1ug/l, 8 ND's
Japan -Tokyo Metropolis	1993-97	30	0.5				ND	1	4	Ass Plasticizer Ind, Japan, 1998,97,96,95	LOD=1ug/l, 29 ND's
Japan - Uji City	1993-97	10	0.5				ND	1	4	Ass Plasticizer Ind, Japan, 1998,97,96,95	LOD=1ug/l, 9 ND's
Japan - general watersheds	summer 1998	8	0.42		<0.3		<0.3	1.3	4	Japan MOE, 1999b	Detected at 3 of 8 sites
Japan - general watersheds	autumn 1998	12	0.15		<0.3		<0.3	<0.3	4	Japan MOE, 1999b	Not detected at any of 12 sites
Japan - general watersheds	2000 (Jan.-Feb.)	23	0.15		<0.3		<0.3	<0.3	4	Japan MOE, 2000b	Not detected in samples from 23 sites
Japan - agr., urban, and industrial areas	2001 (Jan.-Mar.)	24	0.15		<0.3		<0.3	<0.3	4	Japan MOE, 2001a	Not detected in samples from 24 sites
Japan - Akiruno City	1999-2007	10	0.2				<0.2	<1	4	CERI, 2007	Det. limit 0.2 and 1 ug/L
Japan - Setagaya-ku	1999-2007	10	0.2				<0.2	<1	4	CERI, 2007	Det. limit 0.2 and 1 ug/L
Japan - Sumida-ku	1999-2007	10	0.2				<0.2	<1	4	CERI, 2007	Det. limit 0.2 and 1 ug/L
Japan - Uji City	1999-2007	10	0.36				<0.2	1.9	4	CERI, 2007	Det. in 1 of 10 samples; det. limit of 0.2 and 1 ug/L
Japan - Neyagawa	1999-2007	10	0.89				<0.2	4.5	4	CERI, 2007	Det. in 3 of 10 samples; det. limit of 0.2 and 1 ug/L
Japan - Osaka, Tennoji-ku	1999-2007	10	0.23				<0.2	<1	4	CERI, 2007	Det. in 3 of 10 samples; det. limit of 0.2 and 1 ug/L
Taiwan	1995-96	1	18.4	1.5					4	Yin and Su, 1996	
		188	**0.43**				**<0.2**	**18.4**		**Maximum is an average**	
Other											
Ground Drinking Water	85-86		2					to 9	4	Spink, 1986	included in AENV
Ground DW near HazWas	N/A	1524	130				ND	5800	4	Yang and Rauckman, 1987	
Ground Water near HazWas	N/A		85						4	CLPSD, 1990	

Legend

Data, changes or comments added in 2009

Also used in drinking water summary

Excluded from calculated summary

Indicates average based on detection limit

BOLD **Calculated category summary**

Data Quality

1 - Reliable without restrictions
2 - Reliable with restrictions
3 - Not reliable
4 - Unassignable

Landfill leachate
Concentration in ug/L

Location	Date	N	Average	SD	Median	Single Point	Range Low	Range High	Data Quality	Reference	Comments
Canada											
Quebec, Montreal - Miron landfill	N/A	1	62			62			3	Horn et al., 2004	
USA											
Marion, IN (Bragg Dump)	N/A							1000	4	ATSDR, 1995	included in wastewater - landfill leachate (O'Connor, 1996)
US Leachate	83-91	26	1185	3138	64				4	ATSDR Hazdat, 1998	
		26	**1185**				**64**	**1185**		**Max. is a referenced average**	
Europe											
Denmark - MSW, no leachate collection system	spring 1999	2	1.5				1	2	4	Baun et al., 2004	
Germany - municipal landfill leachate	1998						ND	20	4	Meriowsky et al 1999; cited in NCI, 2000	detection limit of 20 ug/L
Germany - waste dump waters	NA						17	169	4	Wenzel et al 2001; cited in Johnson & Jurgens, 2003	
Italy A - municipal landfill leachate	1998					460			4	Meriowsky et al 1999; cited in NCI, 2000	
Italy B - municipal landfill leachate	1998					88			4	Meriowsky et al 1999; cited in NCI, 2000	recirculation of leachate
Finland - leachate from 11 municipal landfills	1998-99						1	89	2	Marttinen et al., 2003a	
Spain - landfill leachate	N/A	3	267		325		25	451	1	Alzaga et al., 2003	
Sweden - landfill leachate	N/A	1	0.8			0.8			1	Alzaga et al., 2003	
Sweden A - municipal landfill leachate	1989?						ND	9	4	Meriowsky et al 1999; cited in NCI, 2000	
Sweden B - municipal landfill leachate	89-97						ND	72	4	Meriowsky et al 1999; cited in NCI, 2000	
Sweden - landfill leachate	1995-96						90	350	4	Paxeus, 1999a	3 landfills
U.K. - landfill leachate	<1993					60			4	ECPI, 1996; cited in NCI, 2000	
Landfill leachate	N/A						<10	150,000	4	Brown and Donnelly, 1988; Ghassemi et al, 1984	
Leachate-construction waste	91-92					1.3			1	Furtmann, 1993	
Leachate-domestic waste	91-92						0.12	10.2	1	Furtmann, 1993	
Near active landfill	91-92						0.75	8.2	1	Furtmann, 1993	
Near closed landfill	91-92					0.53			1	Furtmann, 1993	
Sweden, Denmark, Germany, Italy- Landfill leachate	98-99	17	35	111	<1		<1	460	2	Jonsson et al., 2003a	Leachate collected from 17 engineered landfills
		23	**61**				**0.12**	**1.50E+05**			
Japan/Asia											
Japan - landfill leachate	N/A					ND			4	Behnisch et al. 2001	Detection limit: 0.1 to 0.3 ug/L
China, Wuhan - leachate from 3 landfills	N/A	10	77.82				1.61	232.5	4	Zhang and Wang, 2009	
		10	**77.8**				**<0.1**	**232.5**			

BIS (2-EthylHexyl) Phthalate

Sediments

Concentration in ug/g dry weight

Location	Date	N	Average	SD	Median	Single Point	Range Low	Range High	Data Quality	Reference	Comments
USA											
Ashtabula Harbor	N/A	9	0.051		0.043		0.023	0.08	4	ERG 83 cited in USEPA, 1990	not sure if wet or dry wt
Ashtabula Harbor	N/A	12	1.1		1.1		0.12	3.26	4	ATEC 1984 cited in USEPA, 1990	No sampling date, Dry Wt
Ashtabula Harbor	N/A				0.58		<0.5	2.39	4	TPAI 1988 cited in USEPA, 1990	No sampling date, Dry Wt.
Ashtabula River	1982	5	9.1		7.9		2.7	21	4	ATEC 1983 cited in USEPA, 1990	Dry Wt.
Buffalo River	1981	1	2.3					3.6	4	NYSDEC in USEPA, 1991	don't know if dry or wet
Buffalo River Storm Sewer Seds	N/A	1	25			25			4	NRTC in USEPA, 1991	No sampling date, don't know if dry or wet
California, San Francisco Bay - Stege Marsh	2003 (June)						0.235	32	2	Hwang et al., 2006	
Chesapeake Bay	1979	1	0.096				0.012	0.18	1	Peterson and Freeman, 1982	Dry Wt., upper 10 cm
Chester Creek, PA	1979	1	0.157			0.157			4	Russel et al, 1983	Dry Wt., in ECPI
Chester River, MD, 10 sites >2km from PAE plant	1978	11	0.042				0.02	0.11	4	Peterson and Freeman, 1984	Dry Wt.
Commencement Bay& Tacoma Waterways	1981						0.074	8.5	2	Schults et al, 1987	Dry Wt., corrected for blanks but not recovery (recov=77%)
Detroit River	1982						0.12	1.2	2	Fallon and Horvath, 1985	Dry Wt. (ND in 26 of 31 areas, DL only provided on a wet weight basis as 0.1 mg/kg)
Eighteen Mile Creek	1981	1	0.46			0.46			4	Stevens, 1988	
Flint River	1974						0.84	18	4	MDNR 77 cited in USEPA, 1991	Dry Wt.
Galveston Bay	1980	1	0.094				0.013	0.17	4	Murray, 1981	
Genessee River-Rochester east	1981	1	0.04			0.04			4	Stevens, 1988	
Genessee River-Rochester west	1981						0.23	0.49	4	Stevens, 1988	
Grand Calumet River	N/A							26	4	USEPA, 1991	interstitial water 3.9e-3 mg/l
Grand Calumet River	1986						ND	27	4	IDEM cited in USEPA, 1991	no units reported, ppb assumed
Gulf of Mexico Coast	1977	1	0.007				0.0034	0.014	4	Giam et al, 1978b	Dry Wt.
Gulf of Mexico-offshore	1977	1	0.002						4	Giam et al, 1978b	Dry Wt.
Houston Ship Channel	1993						ND	0.95	4	Armstrong et al., 1995	
Houston Ship Channel	1994						ND	0.87	4	Armstrong et al., 1995	
Houston Ship Channel	1995						0.343	0.925	4	Armstrong et al., 1995	
Lake Erie, Detroit River	N/A						0.001	0.005	4	Pierce, et al, 1978	secondary ref
Lake Michigan	N/A							218	4	Schacht, 1974	secondary ref
Lake Pontchartrain- 2 passes to Gulf of Mexico	1980	1	0.133				0.056	0.21	4	McFall et al., 1985	Dry Wt.
Lake St. Claire	N/A						0.0038	0.0053	4	Pierce, et al, 1978	secondary ref
Lake Superior	N/A							0.0015	4	Kinkead, et al, 1974	secondary ref
Marine and FW Seds	N/A						0.0066	1.5	2	Fallon and Horvath, 1985	
Michigan River Seds	N/A						1	25	4	MWRC, 1973	secondary ref
Mississippi	1981	1	0.14			0.14			4	in Wams, 1987	
Mississippi Delta	1977	1	0.069				<0.0001	0.25	4	Giam et al, 1978b	Dry Wt.
Mississippi River and Delta	1975	10	0.14						2	Taylor et al., 1981	Dry Wt., 0-10cm
Narragansett Bay	79-80	1	3.8			3.8			4	Pruell et al, 1985	Dry Wt.
Neuces Estuary	1980	1	2.5				0.04	16	2	Ray et al, 1983	Dry Wt.
Niagra on the lake	75-82						1.7	107	4	Kuntz, 1984	suspended particulates
NY Bight	N/A						1.4	7.5	4	Boehm, 1982	as cited in Neff, 1984
Ocean Seds near Urban Outfall	N/A							25	4	Swartz et al, 1983	Don't know sampling dates, in ECPI
Portland, ME	N/A	1	1.5				0.06	7	4	Ray et al, 1983	in ECPI
Puget Sound-Background Areas	N/A	1	0.156	0.472	0.039		0.007	2.8	4	Weiss, 1995	50th and 90th Percentiles, dry wt
Puget Sound-Non-Urban Bays	N/A	1	0.181	0.896	0.0455		0.005	8.3	4	Weiss, 1995	50th and 90th Percentiles, dry wt
Puget Sound-Urban Bays	N/A	1	0.779	2.818	0.18		0.00027	63	4	Weiss, 1995	50th and 90th Percentiles, dry wt
Shiawasse River, Mich.	1974				16.5		ND	33	4	MDNR 77 cited in USEPA, 1991	Dry Wt
Shiawasse River, Mich.	1977	16	1						4	MDNR 77 cited in USEPA, 1991	Dry wt., all <2
Storet Database	N/A				10				4	Staples et al ,1985	Reported in 40% of 367 sediments, median
Times Beach Dredge Material	N/A	1	3					5.5	4	NRD in USEPA, 1991	No sampling dates, don't know if dry or wet
Tittabawassee River, Mich	N/A				0.43		0.01	0.87	4	USEPA, 1991	don't know if wet or dry basis
West Galveston Bay	1980	1	0.094				0.013	0.17	4	Murray, 1981; ECETOC, 1985	Dry Wt.
Various sites across country (536 sites; 20 river basins)	1992-95				<0.050		<0.050	17	1	Lopes and Furlong, 2001	Dry wt.; detected in 30% of sites; 95%ile = 1.0; 90%ile = 0.54; 75%ile = 0.098
		83	**1.42**				**<0.0001**	**218**			

Legend

Data, changes or comments added in 2009

Excluded from calculated summary

Indicates average based on detection limit

BOLD **Calculated category summary**

Data Quality

1 - Reliable without restrictions
2 - Reliable with restrictions
3 - Not reliable
4 - Unassignable

US Sediments	79-97	151	858	6325	5.7				4	ATSDR Hazdat, 1998	These data are extremes
US Sediments-LOD/2^1/2	N/A	1272	122	699	6.031		0.01	20471	4	Nat'L Sed Quality DB, 1998	
US Sediments>LOD	N/A	669	227	952	47.8		0.094	20471	4	Nat'L Sed Quality DB, 1998	
Chester River MD, 2km downstream PAE plant discharge	1978	5	4.8	0.095					4	Peterson and Freeman, 1984	Dry Wt.
Chester River MD, PAE plant discharge pond	1978	5	1.2	0.1					4	Peterson and Freeman, 1984	Dry Wt.
Marion, IN (Bragg Dump) Pond Sed	N/A	1	0.882			0.882			4	ATSDR, 1995	
US Seds DS Industrial Eff	<1985				1				4	Staples et al, 1985	appears to be sediments; converted units to mg/kg
US Seds DS Industrial Eff	<1982						0.2	56	4	WHO, 1982	appears to be sediments; converted units to mg/kg
Galveston Bay	1979	1	0.046						3	Giam et al, 1980b	Dry Wt.
Lake Superior-Black Bay	1971	1	0.2			0.2			3	Mayer et al, 1972	Dry Wt.
Central Europe/UK											
Aire River, UK	95-96	4	12.09				7.887	16.698	4	Long, et al, 1998	Dry Wt., Bottom sediments
Aire River, UK	95-96	4	41.17				13.822	115.187	4	Long, et al, 1998	Dry Wt., Suspended sediments
Baltic Sea	N/A	1	0.153				0.105	0.195	4	Muller, et al, 1980	Surface Layer
Baltic Sea	N/A	1	0.11				0.03	0.16	4	Muller, et al, 1980	Sediment deposited about 1970
Baltic Sea	N/A						>0.0013	0.003	4	Muller, et al, 1980	Sediment deposited about 1950
Bodensee	<1986						0.2	5.2	4	BUA, 1986	Dry Wt., in ECPI
Calder River, UK	95-96	4	8.79				4.261	19.421	4	Long, et al, 1998	Dry Wt., Bottom sediments
Calder River, UK	95-96	4	39.8				32.338	55.356	4	Long, et al, 1998	Dry Wt., Suspended sediments
Channel-Baden Wurttemberg	1987						0.7	1	4	CLUA Offenburg, 1987	Dry Wt., in ECPI
Danube-Ulm	1979	1	2.6			2.6			4	Malisch, 1981	Dry Wt., in ECPI
Don River, UK	95-96	3	3.61				3.43	3.967	4	Long, et al, 1998	Dry Wt., Bottom sediments
Don River, UK	95-96	3	27.65				17.693	47.21	4	Long, et al, 1998	Dry Wt., Suspended sediments
Eckernforder Bucht	1950	1	0.0015			<0.003			4	Muller et al, 1980; Malisch, 1981	Dry Wt., in ECPI
Eckernforder Bucht	1960	1	0.04			0.04			4	Muller et al, 1980; Malisch, 1981	Dry Wt., in ECPI
Eckernforder Bucht	1970	1	0.152			0.152			4	Muller et al, 1980; Malisch, 1981	Dry Wt., in ECPI
Eckernforder Bucht	1978	1	0.159			0.159			4	Muller et al, 1980; Malisch, 1981	Dry Wt., in ECPI
Elbe River, from Czech Rep. to N. Sea (N = 37)	2002				4.39		1.03	90.48	4	Stachel, et al. 2005	Dry wt.; samples collected one month after flooding of river
Elbe-Schnackenburg	1989	1	24			24			4	ARGE Elbe, 1989	Dry Wt., in ECPI
Ems	1983						0.32	0.61	4	ECETOC, 1985	Dry Wt.
Ems (F.R.G)	1981						0.03	0.06	4	in Wams, 1987; dry wt	
France, Seine River	92-95						0.0001	0.0035	4	Elf Atochem memo, 1997 (Lemaire, 1997)	
GB:Crouch	1982						0.112	0.26	4	ECETOC, 1985	Dry Wt.
Geltinger Bucht	1978	1	0.108			0.108			4	Malisch et al, 1981;BUA, 1986;Muller et al, 1980	Dry Wt., in ECPI
Geltinger Bucht	1950	1	0.0015			<0.003			4	Muller et al, 1980; Malisch, 1981	Dry Wt., in ECPI
Geltinger Bucht	1960	1	0.0043			0.0043			4	Muller et al, 1980; Malisch, 1981	Dry Wt., in ECPI
Geltinger Bucht	1970	1	0.032			0.032			4	Muller et al, 1980; Malisch, 1981	Dry Wt., in ECPI
Germany - riverbeds in Brandenburg and Berlin	1997				0.70		0.21	8.44	4	Fromme, et al. 2002	Dry wt.; 35 waterways
Germany	N/A				1.1		<0.5	7.7	4	Steffen and Lach, 2000	Detected in 59 of 112 samples
Great Rivers (Rhine, Maas,Schelde, Yssel)	N/A						1	4	4	Poppe memo, 1996	
Harbor Harburg	1986						1	1 to 26	4	Jacobs et al, 1988	Dry Wt., in ECPI
Helgoland	1978	1	0.05			0.05			4	Malisch, 1981	Dry Wt., in ECPI
Helgoland Bight	1981						0.02	0.22	4	in Wams, 1987; dry wt.	
Italy-Rieti District	1994						<0.16	487.3	2	Vitali et al, 1997	
Lake Constance, Germany	N/A						0.2	0.7	4	Giam and Atlas, 1980	
Lake Kettelmeer, Netherl, 77-79	1995						3.1	4.7	2	Remberger, 1997	DW, yr range based upon depth, Note: sampled in 85, store 4C, analyze in 87
Lake Kettelmeer, Netherl, 79-81	1995						2.2	2.4	2	Remberger, 1997	DW, yr range based upon depth, Note: sampled in 85, store 4C, analyze in 87
Lake Kettelmeer, Netherl, 67-69	1995						3.1	3.4	2	Remberger, 1997	DW, yr range based upon depth, Note: sampled in 85, store 4C, analyze in 87
Lake Kettelmeer, Netherl, 69-71	1995						4.2	5	2	Remberger, 1997	DW, yr range based upon depth, Note: sampled in 85, store 4C, analyze in 87
Lake Kettelmeer, Netherl, 71-73	1995						3.2	3.7	2	Remberger, 1997	DW, yr range based upon depth, Note: sampled in 85, store 4C, analyze in 87
Lake Kettelmeer, Netherl, 73-75	1995						6.2	7.3	2	Remberger, 1997	DW, yr range based upon depth, Note: sampled in 85, store 4C, analyze in 87
Lake Kettelmeer, Netherl, 75-77	1995						4.1	4.5	2	Remberger, 1997	DW, yr range based upon depth, Note: sampled in 85, store 4C, analyze in 87
Lake Kettelmeer, Netherl, 81-83	1995						5.1	5.3	2	Remberger, 1997	DW, yr range based upon depth, Note: sampled in 85, store 4C, analyze in 87
Lake Kettelmeer, Netherlands, 83-85	1995						5.4	6.1	2	Remberger, 1997	DW, yr range based upon depth, Note: sampled in 85, store 4C, analyze in 87
Lubecker Bucht	1978	1	0.195			0.195			4	Malisch et al, 1981, BUA, 1986, Muller et al, 1980, Malisch, 1981	Dry Wt., in ECPI
Lubecker Bucht	<1940	1	0.0015			<0.003			4	Muller et al, 1980; Malisch, 1981	Dry Wt., in ECPI
Lubecker Bucht	1950	1	0.018			0.018			4	Muller et al, 1980; Malisch, 1981	Dry Wt., in ECPI
Lubecker Bucht	1960	1	0.103			0.103			4	Muller et al, 1980; Malisch, 1981	Dry Wt., in ECPI
Lubecker Bucht	65-75						0.108	0.137	4	Muller et al, 1980; Malisch, 1981	Dry Wt., in ECPI
Mersey (UK) Estuary at Runcorn	N/A	1	1.199			1.199			4	Preston and Al-Omran, 1989	Dry Wt.
Mersey (UK) Estuary at Speke	N/A	1	1.22			1.22			4	Preston and Al-Omran, 1989	Dry Wt.
Meuse	1979						1	17	4	Schwartz, 1979	
Neckar	N/A						2	9	4	in Wams, 1987	Sampling period not avail
Neckar	1981						1.3	9.4	4	Hagenmaier et al, 1982	Dry Wt., in ECPI
Neckar-Feudenheim	1979	1	5.1			5.1			4	Malisch et al, 1981, Malisch, 1981	Dry Wt., in ECPI
Neckar-Marbach	1979	1	7.8			7.8			4	Malisch et al, 1981, Malisch, 1981	Dry Wt., in ECPI
Neckar-Poppenweiler	1979						<2.8	68	4	Malisch et al, 1981, Malisch, 1981	Dry Wt., in ECPI
Neckar-Schleuse Lauffen	1979						3.3	49	4	Malisch et al, 1981, Malisch, 1981	Dry Wt., in ECPI
Neckar-Schwenningen	1979	1	8.4			8.4			4	Malisch et al, 1981, Malisch, 1981	Dry Wt., in ECPI
NL: Kortenhoef	1978						<0.5	34	4	Schwartz et al, 1979	Dry Wt.
Netherlands - Small rivers	1992						<0.5	0.5	4	Bodar, 1996 cited in NCI, 2000	
Netherlands - Large rivers	92-93	5	2.2				1	4	4	Bodar, 1996 cited in NCI, 2000	
Netherlands - Rivers	1992	5	3.7				3	4	4	Bodar, 1996 cited in NCI, 2000	
NL: Opeinder Kanaal	1999	1	0.064			0.064			1	ALcontrol, 1999; cited in NCI, 2000	Regional, no local influences present
NL: Hantummervaart	1999	1	0.0125			<0.025			1	ALcontrol, 1999; cited in NCI, 2000	Regional
NL: River Maas	1999	1	1.426			1.426			1	ALcontrol, 1999; cited in NCI, 2000	Major Dutch river
NL: River Maas	1999	1	1.912			1.912			1	ALcontrol, 1999; cited in NCI, 2000	Major Dutch river
NL: Castle Strijthagen	1999	1	0.0125			<0.025			1	ALcontrol, 1999; cited in NCI, 2000	Stagnant pond along an old castle, no direct emissions
NL: Fishing club N.O.	1999	1	0.035			0.035			1	ALcontrol, 1999; cited in NCI, 2000	Stagnant pond used solely for fishing
NL: Assendelft	1999	1	0.102			0.102			1	ALcontrol, 1999; cited in NCI, 2000	Small river, regional
NL: Wormerveer	1999	1	1.089			1.089			1	ALcontrol, 1999; cited in NCI, 2000	Processing site nearby, but no connection between plant and the small river
NL: Alkmaar - Hornsee	1999	1	0.186			0.186			1	ALcontrol, 1999; cited in NCI, 2000	Regional
NL: Alkmaar - Hornsee	1999	1	0.507			0.507			1	ALcontrol, 1999; cited in NCI, 2000	Regional
NL: Alkmaar - Noord	1999	1	0.0125			<0.025			1	ALcontrol, 1999; cited in NCI, 2000	Regional, heavy boating area
NL: Alkmaar - Noord	1999	1	0.0125			<0.025			1	ALcontrol, 1999; cited in NCI, 2000	Regional, heavy boating area

NL: Haarlem - Ringva	1999	1	0.0125			<0.025			1	ALcontrol, 1999; cited in NCI, 2000	Regional, Dutch polder
NL: Haarlem - Ringva	1999	1	0.050			0.050			1	ALcontrol, 1999; cited in NCI, 2000	Regional, Dutch polder
NL: Noordzijderpolde	1999	1	0.051			0.051			1	ALcontrol, 1999; cited in NCI, 2000	Sample from outlet of area in which pesticides heavily used
NL: Liedse trekvaart	1999	1	0.124			0.124			1	ALcontrol, 1999; cited in NCI, 2000	Regional
NL: Apeldoorns Kanaal	1999	1	0.195			0.195			1	ALcontrol, 1999; cited in NCI, 2000	Regional
NL: Fishing club VIO	1999	1	0.135			0.135			1	ALcontrol, 1999; cited in NCI, 2000	Stagnant pond, near centre of Dutch city Enschede, no direct emissions
NL: Yacht-basin Oud	1999	1	0.573			0.573			1	ALcontrol, 1999; cited in NCI, 2000	Harbour used for small boats, no direct emissions
NL: DeZoomwijckvijv	1999	1	0.115			0.115			1	ALcontrol, 1999; cited in NCI, 2000	Stagnant pond, near centre of small town, no direct emissions
NL: Fishing Club ERH	1999	1	0.184			0.184			1	ALcontrol, 1999; cited in NCI, 2000	Regional
NL: River Dommel	1999	1	0.629			0.629			1	ALcontrol, 1999; cited in NCI, 2000	Sample at crossing of slow-moving small river and a major highway
NL: River AA, near R	1999	1	0.035			0.035			1	ALcontrol, 1999; cited in NCI, 2000	Regional, small stream
NL: River AA, near R	1999	1	0.0125			<0.025			1	ALcontrol, 1999; cited in NCI, 2000	Regional, small stream
NL: Pond Wipperveld	1999	1	0.604			0.604			1	ALcontrol, 1999; cited in NCI, 2000	Regional, small pond
NL: Pond Wipperveld	1999	1	0.498			0.498			1	ALcontrol, 1999; cited in NCI, 2000	Regional, small pond
NL: Canal around Almere	1999	1	0.224			0.224			1	ALcontrol, 1999; cited in NCI, 2000	Regional, small stream flowing through densely populated city
NL: Canal around Almere	1999	1	0.304			0.304			1	ALcontrol, 1999; cited in NCI, 2000	Regional, small stream flowing through densely populated city
NL: Fishing club De V	1999	1	0.06			0.06			1	ALcontrol, 1999; cited in NCI, 2000	Regional, small stream
NL: Fishing club De V	1999	1	0.075			0.075			1	ALcontrol, 1999; cited in NCI, 2000	Regional, small stream
NL: Production site A	1999	1	1.957			1.957			1	ALcontrol, 1999; cited in NCI, 2000	local, ICI Baleycourt - samples
NL: Production site A	1999	1	7.647			7.647			1	ALcontrol, 1999; cited in NCI, 2000	local, ICI Baleycourt - samples
NL: Production site B	1999	1	0.463			0.463			1	ALcontrol, 1999; cited in NCI, 2000	local, Lonza SPA, Valdarno - samples
NL: Production site B	1999	1	0.254			0.254			1	ALcontrol, 1999; cited in NCI, 2000	local, Lonza SPA, Valdarno - samples
NL: Production site A	1999	1	9.757			9.757			1	ALcontrol, 1999; cited in NCI, 2000	local WWTP, ICI Baleycourt - samples
NL: Production site A	1999	1	7.176			7.176			1	ALcontrol, 1999; cited in NCI, 2000	local WWTP, ICI Baleycourt - samples
Netherlands	1999				0.6		<0.123	7.6	1	Vethaak, et al. 2002	Detected in 19 of 21 samples
NL: Near phthalate production/processing	92-93	11	7.5				<0.5	4.5	4	Bodar, 1996 cited in NCI, 2000	
NL: alongside highways	1993	6	2.3				<0.5	25	4	Bodar, 1996 cited in NCI, 2000	
NL: Veenwoude	2000	1	3.35			3.35			1	David and Sandra, 2001	Dry wt; 13.87% dry mass
NL: Heerde	2000	1	1.3			1.3			1	David and Sandra, 2001	Dry wt; 62.03% dry mass
NL: Vught	2000	1	1.12			1.12			1	David and Sandra, 2001	Dry wt; 51.60% dry mass
NL: Noordeinde	2000	1	2.59			2.59			1	David and Sandra, 2001	Dry wt; 50.73% dry mass
Netherlands - 8 locations in North Sea	2000 spring	8	1.76	1.36	1.24		0.17	3.39	1	Klamer et al., 2005	Dry wt.; surface sediment (top 5 cm); < 63 um fraction
Noord-Brabant	1989	1	3				0.9	10	4	Projectgroep Zwalijs, 1989	NIPHEPB
Nordrhein-Westfalen Canals	91-92	12	1.4		1		0.15	3.4	1	Furtmann, 1993	Dry Wt
Ouse River, UK	95-96	4	4.61				2.303	6.492	4	Long, et al, 1998	Dry Wt., Bottom sediments
Ouse River, UK	95-96	4	17.74				3.806	22.837	4	Long, et al, 1998	Dry Wt., Suspended sediments
Priel Suderelbe	1986						0.2	14.6	4	Knowles et al, 1987	Dry Wt., in ECPI
Rhein-Andernach	1979	1	6.6			6.6			4	Malisch et al, 1981, Malisch, 1981	Dry Wt., in ECPI
Rhein-Leopoldshafen	1979	1	3.4			3.4			4	Malisch et al, 1981, Malisch, 1981	Dry Wt., in ECPI
Rhein-Lobith, NL	1986						20	30	1	Ritsema et al, 1981	Dry Wt.
Rhein-NL	1977						6.5	71	4	Schwartz et al, 1979	Dry Wt.
Rhein-Rudingen	1979	1	0.05			0.05			4	Malisch et al, 1981, Malisch, 1981	Dry Wt., in ECPI
Rhein-Wesel	1979	1	14.6			14.6			4	Malisch et al, 1981, Malisch, 1981	Dry Wt., in ECPI
Rhine	1978						4	36	4	in Wams, 1987	
Rhine	91-92	7	9.5		8.9		1.8	18.3	1	Furtmann, 1993	Dry Wt
Rhine Harbours	91-92	9	5.7		3.8		0.35	20.8	1	Furtmann, 1993	Dry Wt
Rhine River -12 Consecutive Days	1986	12	20				10	36	1	Ritsema et al, 1989	Suspended Particulate matter only, dry weight
Road Drainage Seds	N/A						<0.5	25	4	Poppe Memo, 1996	
Smaller European Rivers	N/A						< 0.5	0.5	4	Poppe memo, 1996	
Spain, Gernika, Bay of Biscay - Urdaibai estuary	2003 March	4	13	3.4	10		10	17	4	Bartolome et al., 2005	
Spain, coastal fishing port - marine sediment	N/A	1	9.4			9.4			1	Gimeno et al., 2003	
Spain, Cantabria - northern, Atlantic coastal marine sediment	2007 (Jul-Sept)	5	1.4	1.22	0.88		0.19	2.8	4	Antizar-Ladislao, 2009	Sampling biased to locations affected by industry and/or shipping traffic
Swale River, UK	95-96	4	7.6				0.229	17.919	4	Long, et al, 1998	Dry Wt., Bottom sediments
Swale River, UK	95-96	4	57.16				27.345	102.344	4	Long, et al, 1998	Dry Wt., Suspended sediments
Trent River, UK	95-96	3	4.93				0.835	12.033	4	Long, et al, 1998	Dry Wt., Bottom sediments
Trent River, UK	95-96	3	22.73				7.778	31.046	4	Long, et al, 1998	Dry Wt., Suspended sediments
USSR: Baltic	1984	1	0.001			0.001			4	Chernyak et al, 1985	Dry Wt., in ECPI
Waal-NL	<1986						15	30	4	BUA, 1986	Dry Wt., in ECPI
Weser and Tributaries	91-92	10	4.6		5.6		0.1	8.9	1	Furtmann, 1993	Dry Wt
Yssel Lake/River	1986	6	17.3				12	25	1	Ritsema et al, 1989	Suspended Particulate matter, dry weight
Yssel-NL	1977						2.5	53	4	Schwartz et al, 1979	Dry Wt.
Northern Europe											
Brattoya, marine, Norway	1996	1	1.221			1.221			1	NIVA, 1996	Dry Wt.
Breviksfjorden, marine, Norway	1996	1	1.112			1.112			1	NIVA, 1996	Dry Wt.
Denmark: Limfjord	1978	1	0.032			0.032			4	Malisch, 1981	Dry Wt., in ECPI
Denmark: Arhus A	1997	18	6.5						4	Boutrup et al., 1998 cited in NCI, 2000	Near outflow of Braband So.
Denmark: Arhus A	1997	5	6.9						4	Boutrup et al., 1998 cited in NCI, 2000	Downstream STPs
Denmark: Drain in Arhus	1998	5	0.063						4	Boutrup et al., 1998 cited in NCI, 2000	Agricultural area
Denmark: Giber A	1998	10	1.1						4	Boutrup et al., 1998 cited in NCI, 2000	Downstream STP
Denmark: Moddebro baek	1998	10	0.075						4	Boutrup et al., 1998 cited in NCI, 2000	Agricultural area
Denmark: Braband So	1996	12	2.2						4	Boutrup et al., 1998 cited in NCI, 2000	Near STP of Viby, 55,000 inhabitants
Denmark, Agri So	1996	12	0.64						4	Boutrup et al., 1998 cited in NCI, 2000	Small lake in agricultural area
Denmark, Almind So	1997	12	0.31						4	Boutrup et al., 1998 cited in NCI, 2000	Rural area, no point sources
Denmark, Silkeborg Langso	1998	4	2.5						4	Boutrup et al., 1998 cited in NCI, 2000	500 m downstream STP of paper industry
Denmark, Silkeborg Langso	1998	4	1.8						4	Boutrup et al., 1998 cited in NCI, 2000	100 m downstream municipal STP, 70,000 inhabitants
Denmark, Arhus havn	96-98	3	5.4						4	Boutrup et al., 1998 cited in NCI, 2000	Third largest port of Denmark
Denmark, Arhus bugt	1996	12	0.18						4	Boutrup et al., 1998 cited in NCI, 2000	50 m from discharge point of municipal STP (270,000 pop)
Denmark, Arhus bugt	1997	12	0.16						4	Boutrup et al., 1998 cited in NCI, 2000	1000 m from discharge point of municipal STP (270,000 pop)
Denmark, Arhus bugt	1998	12	0.082						4	Boutrup et al., 1998 cited in NCI, 2000	6000 m from discharge point of municipal STP (270,000 pop)
Denmark, Mariager fjord	1998	12	0.025				<0.05		4	Boutrup et al., 1998 cited in NCI, 2000	Agricultural area, several small towns in catchment area
Denmark, Mariager fjord	1998	12	0.025				<0.05		4	Boutrup et al., 1998 cited in NCI, 2000	Agricultural area, several small towns in catchment area
Denmark, Stavns fjord	1998	5	0.49						4	Boutrup et al., 1998 cited in NCI, 2000	Rural and agricultural island
Denmark, Randers fjord	1998	5	0.52						4	Boutrup et al., 1998 cited in NCI, 2000	500 m from STP of city Randers
Denmark, Roskilde Vig	1996-99	26	0.724	0.375					2	Vikelsoe et al., 2001	Fjord sediment; 210 m from WWTP outlet; dry wt.
Denmark, Roskilde Vig - Station 2	1996-99	2	0.161	0.037					2	Vikelsoe et al., 2001	Fjord sediment; 1883 m from WWTP outlet; dry wt.
Denmark, Roskilde Bredning St 2044	1996-99	2	0.133	0.053					2	Vikelsoe et al., 2001	Fjord sediment; 3981 m from WWTP outlet; dry wt.
Denmark, Roskilde Bredning St 60	1996-99	2	0.052	0.005					2	Vikelsoe et al., 2001	Fjord sediment; 6374 m from WWTP outlet; dry wt.

Denmark, Isefjord - Bramsnaes	1996-99	2	0.080	0.028				2	Vikelsoe et al., 2001	Fjord sediment; dry wt.
Denmark, Isefjord - Tempelkrog	1996-99	2	0.021	0.012				2	Vikelsoe et al., 2001	Fjord sediment; dry wt.
Denmark, Hove A upstream Lake Gundsomagle	1998-99	2	0.075	0.020				2	Vikelsoe et al., 2001	Stream and lake sediment; dry wt.
Denmark, Lake Gundsomagle, 100 m west	1998-99	2	0.093	0.011				2	Vikelsoe et al., 2001	Stream and lake sediment; dry wt.
Denmark, Lake Gundsomagle, 200 m west	1998-99	2	0.124	0.0037				2	Vikelsoe et al., 2001	Stream and lake sediment; dry wt.
Denmark, Lake Gundsomagle, south bank	1998-99	2	0.014	0.0066				2	Vikelsoe et al., 2001	Stream and lake sediment; dry wt.
Denmark, Hove A downstream Lake Gundsomagle	1998-99	6	0.180	0.115				2	Vikelsoe et al., 2001	Stream and lake sediment; dry wt.
Faerder, marine Norway	1996	1	0.08		0.08			1	NIVA, 1996	Dry Wt.
Femunden Reference, freshwater (fw), Norway	1996	1	0.042		0.042			1	NIVA, 1996	Dry Wt.
Femunden Surface, fw Norway	1996	1	0.05		0.05			1	NIVA, 1996	Dry Wt.
Fracksjon 0-2 cm Sweden reference lake	1996	1	0.065		0.065			4	Parkman and Remberger, 1996	Dry Wt
Fracksjon 14-16 cm Sweden reference lake	1996	1	0.004		0.004			4	Parkman and Remberger, 1996	Dry Wt
Frierflaket, marine Norway	1996	1	2.71		2.71			1	NIVA, 1996	Dry Wt.
Fuglevik, marine Norway	1996	1	0.101		0.101			1	NIVA, 1996	Dry Wt.
Fyrisan (Uppsala) 0-2 cm Sweden	1996	1	0.65		0.65			4	Parkman and Remberger, 1996	Dry Wt
Fyrisan (Uppsala) 8-10 cm Sweden	1996	1	0.249		0.249			4	Parkman and Remberger, 1996	Dry Wt
Graoyrenna, marine Norway	1996	1	0.69		0.69			1	NIVA, 1996	Dry Wt.
Gullaugbukta, marine Norway	1996	1	0.556		0.556			1	NIVA, 1996	Dry Wt.
Harsvatten 0-2 cm Sweden reference lake	1996	1	0.102		0.102			4	Parkman and Remberger, 1996	Dry Wt
Harsvatten 14-16 cm Sweden reference lake	1996				ND			4	Parkman and Remberger, 1996	Dry Wt
Heddalsvatn Reference, fw Norway	1996	1	0.038		0.038			1	NIVA, 1996	Dry Wt.
Heddalsvatn Surface, fw Norway	1996	1	0.08		0.08			1	NIVA, 1996	Dry Wt.
Holmen, marine Norway	1996	1	3.2		3.2			1	NIVA, 1996	Dry Wt.
Langesundsbukta, marine Norway	1996	1	0.034		0.034			1	NIVA, 1996	Dry Wt.
Lundevatn Reference, fw Norway	1996	1	0.058		0.058			1	NIVA, 1996	Dry Wt.
Lundevatn Surface, fw Norway	1996	1	0.8		0.8			1	NIVA, 1996	Dry Wt.
M\North Sea-MUST A1-K2	1995					<0.09	7.24	4	ECPI Work Group, Memo, 1997	
Mjosa Furnesfj. Reference, fw Norway	1996	1	0.0035		<0.007			1	NIVA, 1996	Dry Wt.
Mjosa Furnesfj. Surface, fw Norway	1996	1	0.08		0.08			1	NIVA, 1996	Dry Wt.
Mjosa Gjovik Reference, fw Norway	1996	1	0.128		0.128			1	NIVA, 1996	Dry Wt.
Mjosa Gjovik Surface, fw Norway	1996	1	0.085		0.085			1	NIVA, 1996	Dry Wt.
Mjosa Hamar Reference, fw Norway	1996	1	0.0035		<0.007			1	NIVA, 1996	Dry Wt.
Mjosa Hamar Surface, fw Norway	1996	1	0.042		0.042			1	NIVA, 1996	Dry Wt.
Motola Strom 0-2 cm Sweden	1996	1	1.219		1.219			4	Parkman and Remberger, 1996	Dry Wt, downstream of sewage treatment outlet
Motola Strom 14-16 cm Sweden	1996	1	1.594		1.594			4	Parkman and Remberger, 1996	Dry Wt, downstream of sewage treatment outlet
North Sea GK 1	1995	1	0.045		<0.09			4	ECPI Work Group, Memo, 1997	
North Sea GK 2	1995	1	0.045		<0.09			4	ECPI Work Group, Memo, 1997	
North Sea-Byfjorden	1995	1	2.59		2.59			4	ECPI Work Group, Memo, 1997	
North Sea-Danafjord	1995	1	0.045		<0.09			4	ECPI Work Group, Memo, 1997	
North Sea-Fjallbacka	1995							4	ECPI Work Group, Memo, 1997	
North Sea-G2	1995	1	0.045		<0.09			4	ECPI Work Group, Memo, 1997	
North Sea-Gav 1	1995	1	8.19		8.19			4	ECPI Work Group, Memo, 1997	
North Sea-Gav 2	1995	1	0.045		<0.09			4	ECPI Work Group, Memo, 1997	
North Sea-Havstensfjord	1995	1	0.69		0.69			4	ECPI Work Group, Memo, 1997	
North Sea-Inre Gullmarn	1995							4	ECPI Work Group, Memo, 1997	
North Sea-Kosterfjorden	1995							4	ECPI Work Group, Memo, 1997	
North Sea-Ravungarna	1995	1	0.045		<0.09			4	ECPI Work Group, Memo, 1997	
North Sea-Scranraff 319	1995							4	ECPI Work Group, Memo, 1997	
North Sea-Skalkororgarna	1995	1	0.62		0.62			4	ECPI Work Group, Memo, 1997	
North Sea-Stromstad	1995	1	0.045		<0.09			4	ECPI Work Group, Memo, 1997	
North Sea-Valo	1995	1	0.045		<0.09			4	ECPI Work Group, Memo, 1997	
Ormoya, marine Norway	1996	1	6.551		6.551			1	NIVA, 1996	Dry Wt.
Orrolmsviken (Karlstadt) 0-2 cm Sweden	1996	1	0.278		0.278			4	Parkman and Remberger, 1996	Dry Wt, close to drainage outlet
Orrolmsviken (Karlstadt) 8-10 cm, Sweden	1996	1	0.002		0.002			4	Parkman and Remberger, 1996	Dry Wt, close to drainage outlet
Riddarfjarden 14-16 cm Sweden	1996	1			ND			4	Parkman and Remberger, 1996	Dry Wt, near Stockholm
Riddarfjarden 0-2 cm, Sweden	1996	1	0.764		0.764			4	Parkman and Remberger, 1996	Dry Wt, near Stockholm
Slemmestad (VEAS), marine Norway	1996	1	0.193		0.193			1	NIVA, 1996	
Svartan 0-2 cm, Sweden	1996	1	0.95		0.95			4	Parkman and Remberger, 1996	Dry Wt, near Orebro town center
Svartan 6-8 cm, Sweden	1996	1	0.312		0.312			4	Parkman and Remberger, 1996	Dry Wt, near Orebro town center
Sweden-Ronnebyan- Upstream Ind Discharge	N/A					1.2	8.03	2	Thuren, 1986	Dry Wt.
Sweden-Svartan- Upstream Ind Discharge	N/A					1.52	3.52	2	Thuren, 1986	Dry Wt.
		477	**4.4**			**0.0001**	**487**			
Czech Republic - Morava River and tributaries	N/A	9	2.000		2.270	0.310	3.040	3	Vondracek et al. 2001	Dry wt.; no blanks
Poland-Sitno Lake, near polymer factory	1993	1	604			247	829	4	Ruminski, et al, 1995	Dry Wt calc. from wet wt and moisture; near outlet of polymers factory
Sweden-Sediment at Industrial Eff.	1983					630	1480	4	ECETOC, 1985	found in other media
Sweden-Sediment DS Industrial Eff.	1983					0.149	79	4	ECETOC, 1985	found in other media
Sweden-Ronnebyan- at Ind Discharge	N/A					79.2	628	2	Thuren, 1986	Dry Wt.
Sweden-Svartan- at Ind Discharge	N/A				1480			2	Thuren, 1986	Dry Wt.
Sweden-Svartan- Downstream Ind Discharge	N/A				0.15			2	Thuren, 1986	Dry Wt.
France - production site, small river	1999					40	146		Basseres, 2000; cited in NCI, 2000	Downstream local production site
Bodensee	1979					0.2	0.7	3	Giam et al, 1980	Dry Wt.
Channel-Baden Wurttemberg-Contaminated	1987					6.6	250	4	CLUA Offenburg, 1987	Dry Wt., in ECPI
Flooring Plant discharge	N/A					2	4.5	4	Poppe memo, 1996	
Waste Water Treatment Plant	N/A					<10	370	4	Poppe Memo, 1996	

ECO AB at Svartan	1994	3	47.021	54.645				3	Parkman and Remberger, 1995	Dry wt., P&R 96 say data quality low
ECO AB at Svartan	1994	3	1770	2650				3	Parkman and Remberger, 1995	per organic material, P&R 96 say data quality low
Gullspangsalven-Arasviken	1994	3	0.044	0.004				3	Parkman and Remberger, 1995	Dry wt., P&R 96 say data quality low
Gullspangsalven-Arasviken	1994	3	0.5	0.05				3	Parkman and Remberger, 1995	per organic material, P&R 96 say data quality low
Gullspangsalven-Archip Goteborg	1994	1	0.794	N/A				3	Parkman and Remberger, 1995	Dry wt., P&R 96 say data quality low
Gullspangsalven-Archip Goteborg	1994	1	14	N/A				3	Parkman and Remberger, 1995	per organic material, P&R 96 say data quality low
Gullspangsalven-Bohus	1994	3	0.225	0.093				3	Parkman and Remberger, 1995	Dry wt., P&R 96 say data quality low
Gullspangsalven-Bohus	1994	3	6.6	2.54				3	Parkman and Remberger, 1995	per organic material, P&R 96 say data quality low
Gullspangsalven-Breddreven	1994	2	0.225	0.077				3	Parkman and Remberger, 1995	Dry wt., P&R 96 says data quality low
Gullspangsalven-Breddreven	1994	2	0.6	0.22				3	Parkman and Remberger, 1995	per organic material, P&R 96 say data quality low
Gullspangsalven-Halvarsnoret	1994	3	0.202	0.112				3	Parkman and Remberger, 1995	Dry wt., P&R 96 say data quality low
Gullspangsalven-Halvarsnoret	1994	3	0.9	0.54				3	Parkman and Remberger, 1995	per organic material, P&R 96 say data quality low
Gullspangsalven-Holmsjon	1994	3	0.139	0.094				3	Parkman and Remberger, 1995	Dry wt., P&R 96 say data quality low
Gullspangsalven-Holmsjon	1994	3	0.4	0.27				3	Parkman and Remberger, 1995	per organic material, P&R 96 say data quality low
Gullspangsalven-Lesjon	1994	3	0.218	0.144				3	Parkman and Remberger, 1995	Dry wt., P&R 96 say data quality low
Gullspangsalven-Lesjon	1994	3	0.5	0.35				3	Parkman and Remberger, 1995	per organic material, P&R 96 say data quality low
Gullspangsalven-Mockeln	1994	3	0.404	0.048				3	Parkman and Remberger, 1995	Dry wt., P&R 96 say data quality low
Gullspangsalven-Mockeln	1994	3	4.2	0.72				3	Parkman and Remberger, 1995	per organic material, P&R 96 say data quality low
Gullspangsalven-Torrvarpen	1994	3	0.163	0.034				3	Parkman and Remberger, 1995	Dry wt., P&R 96 say data quality low
Gullspangsalven-Torrvarpen	1994	3	1	0.18				3	Parkman and Remberger, 1995	per organic material, P&R 96 say data quality low
Gullspangsalven-Trollhattan	1994	3	0.071	0.039				3	Parkman and Remberger, 1995	Dry wt., P&R 96 say data quality low
Gullspangsalven-Trollhattan	1994	3	1.5	0.56				3	Parkman and Remberger, 1995	per organic material, P&R 96 say data quality low
Stockholm	1994	6	2.491	0.376				3	Parkman and Remberger, 1995	Dry wt., P&R 96 says data quality low
Stockholm	1994	6	19.6	3.82				3	Parkman and Remberger, 1995	per organic material, P&R 96 says data quality low
Swedish Lakes-Abiskojaure	1994	2	0.008	0.008				3	Parkman and Remberger, 1995	Dry wt. P&R 96 say data quality low
Swedish Lakes-Abiskojaure	1994	2	0.2	0.19				3	Parkman and Remberger, 1995	per organic material, P&R 96 say data quality low
Swedish Lakes-Brunnsjon	1994	3	0.168	0.056				3	Parkman and Remberger, 1995	Dry wt., P&R 96 say data quality low
Swedish Lakes-Brunnsjon	1994	3	0.3	0.11				3	Parkman and Remberger, 1995	per organic material, P&R 96 say data quality low
Swedish Lakes-Fracksjon	1994	3	0.366	0.132				3	Parkman and Remberger, 1995	Dry wt., P&R 96 say data quality low
Swedish Lakes-Fracksjon	1994	3	1.3	0.05				3	Parkman and Remberger, 1995	per organic material, P&R 96 say data quality low
Swedish Lakes-Harsvatten	1994	3	0.388	0.208				3	Parkman and Remberger, 1995	Dry wt., P&R 96 say data quality low
Swedish Lakes-Harsvatten	1994	3	0.7	0.45				3	Parkman and Remberger, 1995	per organic material, P&R 96 say data quality low
Swedish Lakes-Jutsajaure	1994	3	0.118	0.078				3	Parkman and Remberger, 1995	Dry wt., P&R 96 say data quality low
Swedish Lakes-Jutsajaure	1994	3	0.5	0.3				3	Parkman and Remberger, 1995	per organic material, P&R 96 say data quality low
Swedish Lakes-Krageholmssjon	1994	3	0.208	0.148				3	Parkman and Remberger, 1995	Dry wt., P&R 96 say data quality low
Swedish Lakes-Krageholmssjon	1994	3	1.1	0.46				3	Parkman and Remberger, 1995	per organic material, P&R 96 say data quality low
Swedish Lakes-Stensjon	1994	3	0.059	0.084				3	Parkman and Remberger, 1995	per organic material, P&R 96 say data quality low
Swedish Lakes-Stensjon	1994	3	0.2	0.25				3	Parkman and Remberger, 1995	Dry wt., P&R 96 say data quality low
Tarkett in Ronnebyhamn	1994	3	32.61	14.475				3	Parkman and Remberger, 1995	Dry wt., P&R 96 say data quality low
Tarkett in Ronnebyhamn	1994	3	113	55				3	Parkman and Remberger, 1995	per organic material, P&R 96 say data quality low
Upstream ECO AB at Ormaryd	1994	3	0.102	0.013				3	Parkman and Remberger, 1995	Dry wt., P&R 96 say data quality low
Upstream ECO AB at Ormaryd	1994	3	0.2	0.03				3	Parkman and Remberger, 1995	per organic material, P&R 96 say data quality low
Upstream of Tarkett	1994	3	1.786	1.325				3	Parkman and Remberger, 1995	Dry wt., P&R 96 say data quality low
Upstream of Tarkett	1994	3	20.3	16.2				3	Parkman and Remberger, 1995	per organic material, P&R 96 say data quality low
Canada										
B.C. - marine sediments	N/A				1.572	0.403	5.494	4	Mackintosh et al., 2002	Corrected for blanks; det. in all 17 samples
B.C. - False Creek Harbour, marine sediments	N/A	17	2.090			1.130	3.870	1	Mackintosh et al., 2006	
B.C. - False Creek	1991	12	1.808		3.35	1.40	3.90	4	Garrett, 2000	Average calculated using 1/2 detection limits (vary by sample)
B.C. - Vancouver Harbour	1991	6	2.70		2.80	1.30	4.0	4	Garrett, 2000	Average calculated using 1/2 detection limits (vary by sample)
B.C. - Fraser River, near wood preservers	1990	2	2.05		2.05	2.00	2.10	4	Garrett, 2000	
B.C. - Victoria Harbour and Esquimalt	1990	14	8.157		5.75	2.50	23.0	4	Garrett, 2000	
Ontario, Hamilton Harbour - near outflow of STP	1997					6.5	29.7	1	McDowell and Metcalfe, 2001	Dry wt.; 5 locations ranging from 0 to 400 m from STP outflow
		51	**3.76**			**0.40**	**29.7**			
Quebec, Montreal - St. Lawrence River	N/A	1	110		110			3	Horn et al., 2004	
Frazer River, B.C.	1983	1	0.844		0.844			3	Rogers and Hall, 1987	0.5 Km from sewage outfall, dry wt , spike recoveries questionable
Frazer River, B.C.	1983	1	0.404		0.404			3	Rogers and Hall, 1987	1 Km from sewage outfall, dry wt , spike recoveries questionable

Japan/Asia											
China, Taihu Lake - heavily industrialized area	2000	12	13.08				2.22	23.93	4	Wang, et al. 2003	Detected in 83% of samples
China, Donghu Lake, Wuhan City, Hubei Province	2000				3.25		ND	7.25	4	Wang, et al. 2002	Detected in 3 of 5 samples
China, Guangzhou City - urban lakes, 15 locations	2005 (May)	15	3.64		1.30		0.21	14.16	1	Zeng et al., 2008a	Top 10 cm; det. in 100% samples
China - Yellow River at Xiaolangdi	2004 (June)	3	9.29	0.02		9.29			4	Sha et al., 2007	
China - Yellow River at Mengjin	2004 (June)	3	50.69	0.15		50.69			4	Sha et al., 2007	
China - Yellow River at Mengzhou	2004 (June)	3	19.98	0.059		19.98			4	Sha et al., 2007	
China - Yellow River at Jiaogong	2004 (June)	3	31.18	2.45		31.18			4	Sha et al., 2007	
China - Yellow River at Zhengzhou	2004 (June)	3	19.57	3.67		19.57			4	Sha et al., 2007	
China - Yellow River at Kaifeng	2004 (June)	3	20.14	4.27		20.14			4	Sha et al., 2007	
China - Yellow River at Dongming	2004 (June)	3	33.40	3.39		33.40			4	Sha et al., 2007	
China - Yellow River tributary - Luoyang Petrochemical Channel	2004 (June)	3	258.5	0.77		258.5			4	Sha et al., 2007	
China - Yellow River tributary - Yiluo	2004 (June)	3	54.24	0.16		54.24			4	Sha et al., 2007	
China - Yellow River tributary - Xinmang	2004 (June)	3	5.35	0.015		5.35			4	Sha et al., 2007	
China - Yellow River tributary Mangqin	2004 (June)	3	11.95	0.035		11.95			4	Sha et al., 2007	
China - Yellow River tributary - Wenyan Channel	2004 (June)	3	34.53	0.103		34.53			4	Sha et al., 2007	
China - Yangtze River, Wuhan Section; Left Zhuankou	2005 (July)	1	195.8	8.3		195.8			4	Wang, F. et al., 2008	High water period
China - Yangtze River, Wuhan Section; Left Baishazhou	2005 (July)	1	221.4	7.4		221.4			4	Wang, F. et al., 2008	High water period
China - Yangtze River, Wuhan Section; Left Wuhanguan	2005 (July)	1	138.3	3.6		138.3			4	Wang, F. et al., 2008	High water period
China - Yangtze River, Wuhan Section; Right Wuhanguan	2005 (July)	1	201.8	4.7		201.8			4	Wang, F. et al., 2008	High water period
China - Yangtze River, Wuhan Section; Left Yujiatou	2005 (July)	1	76.0	1.8		76.0			4	Wang, F. et al., 2008	High water period
China - Yangtze River, Wuhan Section; Right Yujiatou	2005 (July)	1	88.9	3.7		88.9			4	Wang, F. et al., 2008	High water period
China - Yangtze River, Wuhan Section; Jinkou	2005 (Dec)	1	50.8	3.7		50.8			4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Zhuankou	2005 (Dec)	1	192.6	4.8		192.6			4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Wuhanguan	2005 (Dec)	1	48.0	2.6		48.0			4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Yangluo	2005 (Dec)	1	109.0	7.2		109.0			4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Jinshiu	2005 (Dec)	1	6.3	0.3		6.3			4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Dongjing River	2005 (Dec)	1	321.5	10.6		321.5			4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Houguan Lake	2005 (Dec)	1	47.9	1.9		47.9			4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Tangxun River	2005 (Dec)	1	13.9	3.7		13.9			4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Xunsi River	2005 (Dec)	1	65.2	4.5		65.2			4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Qinduan River	2005 (Dec)	1	261.2	9.3		261.2			4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Changfeng Bridge	2005 (Dec)	1	6.8	0.9		6.8			4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Guocikou	2005 (Dec)	1	29.5	1.7		29.5			4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Jijiazui	2005 (Dec)	1	247.9	6.8		247.9			4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; East Lake	2005 (Dec)	1	323.5	5.4		323.5			4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Lijiadun	2005 (Dec)	1	94.7	2.7		94.7			4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Fu River	2005 (Dec)	1	166.6	8.2		166.6			4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Zhujia River	2005 (Dec)	1	54.0	3.7		54.0			4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Hou Lake	2005 (Dec)	1	202.0	7.1		202.0			4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Xiaowan	2005 (Dec)	1	0.4	0		0.4			4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Wu Lake	2005 (Dec)	1	202.3	8.8		202.3			4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Qingshan Habor	2005 (Dec)	1	130.4	6.8		130.4			4	Wang, F. et al., 2008	Low water period
China - Yangtze River, Wuhan Section; Daoshui River	2005 (Dec)	1	123.8	6.2		123.8			4	Wang, F. et al., 2008	Low water period
Dohkai-B1	1982						0.04	0.06	4	Kishi, 1996	
Dohkai-B2	1982						0.05	0.07	4	Kishi, 1996	
Himeji-Off Coast	1982						0.08	0.43	4	Kishi, 1996	
Japan Rivers	<1979						0.08	1.36	4	ECETOC, 1985; BUA, 1986	Dry Wt.
Japan Rivers-Downstream	N/A						0.1	0.35	4	Yano, 1979	
Japan Rivers-Midstream	N/A						0.13	0.47	4	Yano, 1979	
Japan Rivers-Upstream	N/A						<0.05	0.09	4	Yano, 1979	
Japan Rivers - Large city	1974							3.0	4	Goto, 1979; cited in NCI, 2000	
Japan Rivers - Medium city	1974							3.2	4	Goto, 1979; cited in NCI, 2000	
Japan Rivers - Small city	1974							1.4	4	Goto, 1979; cited in NCI, 2000	
Japan Rivers - Industrial city	1974							17	4	Goto, 1979; cited in NCI, 2000	
Japan Rivers	1974							2.0	4	Goto, 1979; cited in NCI, 2000	
Japan sediment	74-76	1	0.48						4	Kubota, 1979	don't know if dry or wet wt, detected in 61% of 370 samples
Japan - rivers, sea areas, lakes - nationwide	1998	152	3.028		0.135		<0.025	210	4	JEA, 1999	Detected at 125 of 152 sites
Japan - 15 major rivers	late 1998	20	0.505		0.165		<0.025	3.40	2	MOC, 1999a and c	Detected at 19 of 20 sites
Japan - 15 major rivers	summer 1999	20	0.361		0.118		<0.025	2.90	2	MOC, 1999a and c	Detected at 18 of 20 sites
Japan - major rivers	spring 1999	27	0.437		0.250		<0.025	1.60	4	MOC, 1999b	Detected at 24 of 27 sites
Japan - freshwater	1998	207	0.194				0.0054	210	4	Naito et al., 2006 (Japan MOE data)	Low value is 5th %; 95th% = 6.990 mg/kg; some data are duplicated in JEA & MOC ref.

Japan - saltwater	1998	29	0.151			0.0151	3.6	4	Naito et al., 2006 (Japan MOE data)	Low value is 5th %; 95th% = 1.510 mg/kg; some data are duplicated in JEA & MOC ref.
Japan - freshwater	1999	184	0.326			0.0128	23	4	Naito et al., 2006 (Japan MOE data)	Low value is 5th %; 95th% = 8.290 mg/kg; some data are duplicated in MOC, 1999 ref.
Japan - saltwater	1999	31	0.135			0.0064	6.6	4	Naito et al., 2006 (Japan MOE data)	Low value is 5th %; 95th% = 2.860 mg/kg; some data are duplicated in MOC, 1999 ref.
Japan - Rivers	2000 (Jan.-Feb.)	32	3.325		0.780	<0..025	22.00	4	Japan MOE, 2000b	Detected at 29 of 32 sites
Japan - Lakes	2000 (Jan.-Feb.)	4	1.773		1.090	0.11	4.80	4	Japan MOE, 2000b	Detected at 4 of 4 sites
Japan - Coastal sea water	2000 (Jan.-Feb.)	12	0.12		0.083	<0..025	0.350	4	Japan MOE, 2000b	Detected at 8 of 12 sites
Japan - freshwater	2000	123	0.212			0.0087	13	4	Naito et al., 2006 (Japan MOE data)	Low value is 5th %; 95th% = 5.170 mg/kg; some data are duplicated in Japan MOE ref.
Japan - saltwater	2000	29	0.225			0.0225	2.5	4	Naito et al., 2006 (Japan MOE data)	Low value is 5th %; 95th% = 2.250 mg/kg; some data are duplicated in Japan MOE ref.
Japan - Rivers	2001 (Jan.-Mar.)	33	0.871		0.310	<0..025	6.100	4	Japan MOE, 2001a	Detected at 32 of 33 sites
Japan - Lakes	2001 (Jan.-Mar.)	4	0.380		0.460	0.031	0.570	4	Japan MOE, 2001a	Detected at 4 of 4 sites
Japan - Coastal sea water	2001 (Jan.-Mar.)	11	0.129		0.072	0.050	0.240	4	Japan MOE, 2001a	Detected at 11 of 11 sites
Japan - freshwater	2001	210	0.179			0.0048	43	4	Naito et al., 2006 (Japan MOE data)	Low value is 5th %; 95th% = 6.720 mg/kg; some data are duplicated in Japan MOE ref.
Japan - saltwater	2001	43	0.089			0.0056	1.7	4	Naito et al., 2006 (Japan MOE data)	Low value is 5th %; 95th% = 1.4 mg/kg; some data are duplicated in Japan MOE ref.
Japan - freshwater	2002	126	0.046			0.0004	28	4	Naito et al., 2006 (Japan MOE data)	Low value is 5th %; 95th% = 4.790 mg/kg
Japan - saltwater	2002	38	0.078			0.0054	2.4	4	Naito et al., 2006 (Japan MOE data)	Low value is 5th %; 95th% = 1.130 mg/kg
Japan - bottom sediment	1996				<0.15	0.18	22	4	Japan MOE, 2003	Detected in 16 of 33 samples; det. limit of 0.15 mg/kg
Japan, Kanmon-Str	1982					0.08	0.3	4	Kishi, 1996	
Japan, Kinura-P	1982					0.011	0.019	4	Kishi, 1996	
Japan, Kohbe-P	1982					0.35	0.38	4	Kishi, 1996	
Japan, Mizushima-Off Coast 1	1982					0.05	0.06	4	Kishi, 1996	
Japan, Mizushima-Off Coast 2	1982					0.03	0.05	4	Kishi, 1996	
Japan, Nagoya- Out P2	1982					0.009	0.017	4	Kishi, 1996	
Japan, Nagoya-P1	1982					0.037	0.084	4	Kishi, 1996	
Japan, Sendai B2	1982					0.01	0.02	4	Kishi, 1996	
Japan, Sendai-B1	1982					0.01	0.01	4	Kishi, 1996	
Japan, Takasago-Off Coast	1982					0.032	0.063	4	Kishi, 1996	
Japan, Tsurumi-R	1982					0.069	3.5	4	Kishi, 1996	
Japan, Yokohama-P	1982					0.88	3.2	4	Kishi, 1996	
Korea - nationwide survey of 11 sites	N/A					ND	2.045	4	Choi et al., 2001	Detected in 7 of 11 samples
Taiwan - rivers	2000 (Jan.-Aug.)	6	4.6			0.5	23.9	4	Yuan, et al. 2002	Sample locations described as heavily contaminated
Taiwan, Houjing River - Sannaitan Bridge (upstream)	2006 (Dec)	1	1.37			1.37		1	Lin et al., 2009	0 to 15 cm
Taiwan, Houjing River - Jhongsing Bridge -Dashe Industrial Park	2006 (Dec)	1	20.22			20.22		1	Lin et al., 2009	0 to 15 cm
Taiwan, Houjing River - Jingjian Bridge -Dashe Industrial Park	2006 (Dec)	1	3.68			3.68		1	Lin et al., 2009	0 to 15 cm
Taiwan, Houjing River - Bakong Bridge (upstream)	2006 (Dec)	1	0.07			0.07		1	Lin et al., 2009	0 to 15 cm
Taiwan, Houjing River - Renwu Bridge - Renwu Industrial Park	2006 (Dec)	1	8.93			8.93		1	Lin et al., 2009	0 to 15 cm
Taiwan, Houjing River - Demin Bridge	2006 (Dec)	1	0.26			0.26		1	Lin et al., 2009	0 to 15 cm
Taiwan, Houjing River - Dehuei Bridge	2006 (Dec)	1	1.47			1.47		1	Lin et al., 2009	0 to 15 cm
Taiwan, Houjing River - Youchangda Bridge	2006 (Dec)	1	1.82			1.82		1	Lin et al., 2009	0 to 15 cm
Taiwan, Houjing River - Singzhong Bridge	2006 (Dec)	1	0.09			0.09		1	Lin et al., 2009	0 to 15 cm
Taiwan, Houjing River - Feima Bridge	2006 (Dec)	1	0.18			0.18		1	Lin et al., 2009	0 to 15 cm
		1443	**4.42**			**0.0004**	**323.5**			
Other										
Presa Tuxpango, Mexico	N/A		2.8	1.7		ND	4.8	3	Albert, et al, 1988	
Rio Blanco	N/A					ND	1.1	3	Albert, et al, 1988	
Terra Nova Bay, Antarctica-other	87-88	14				0.007	0.14	4	Desideri et al, 1991	2nd highest value = 0.023
Greenland	2002					0.1186	0.1203	3	Vorkamp et al., 2004	Not corrected for blanks; unclear if wet wt or dry wt basis

Suspended Particulate Matter		**Concentration as ug/g**				**Single**	**Range**		**Data**		
Location	**Date**	**N**	**Average**	**SD**	**Median**	**Point**	**Low**	**High**	**Quality**	**Reference**	**Comments**
Europe											
France, River Seine - low water period	2002-2004	1	29.5			29.5			4	Teil et al., 2007	
France, River Seine - high water period	2004	1	5.7			5.7			4	Teil et al., 2007	
Italy - Tyrrhenian Sea at Quercianella	1999	3	128						2	Cincinelli, et al., 2001	Sub-surface water; dry wt., conc. particulate matter = 3.9 mg/L
Italy - Tyrrhenian Sea at Quercianella	1999	3	304						2	Cincinelli, et al., 2001	Sea-surface microlayer; dry wt.; conc. particulate matter = 5.2 mg/L
Italy - Tyrrhenian Sea - Harbour of Leghorn	1999	3	37						2	Cincinelli, et al., 2001	Sub-surface water; dry wt.; conc. particulate matter = 5 mg/L
Italy - Tyrrhenian Sea - Harbour of Leghorn	1999	3	574						2	Cincinelli, et al., 2001	Sea-surface microlayer; dry wt.; conc. particulate matter = 72.5 mg/L
Netherlands	1999				3.4		<0.092	19	1	Vethaak, et al. 2002	Detected in 46 of 51 samples
		14	**226**				**<0.092**	**574**		**Max. is a referenced average**	

Canada										
B.C. - False Creek Harbour, marine sediments	N/A	4	31.9			7.35	136	1	Mackintosh et al., 2006	
		4	**31.9**			**7.35**	**136**			
Japan/Asia										
China - Yellow River at Jiaogong	2004 (June)	1	5.40	0.016				4	Sha et al., 2007	
China - Yellow River at Zhengzhou	2004 (June)	1	38.95	0.116				4	Sha et al., 2007	
China - Yellow River at Kaifeng	2004 (June)	1	34.49	0.103				4	Sha et al., 2007	
China - Yellow River at Dongming	2004 (June)	1	47.00	0.141				4	Sha et al., 2007	
China - Yellow River tributary - Yiluo River	2004 (June)	1	630.40	1.89				4	Sha et al., 2007	
		5	**151**			**5.40**	**630.40**			
Other	**Concentration as ng/L**									
North Sea - German Bight	2004 (Feb-Mar)	9	1.6	2.0	0.64	0.16	5.8	1	Xie et al., 2005	Total suspended matter
Norwegian Coast -marine; 0.75 um fraction	2004 (summer)	5	0.064		0.038	<0.017	0.192	1	Xie et al., 2007	Total suspended matter
Arctic - marine; 0.75 um fraction	2004 (summer)	8	0.0085		<0.017	<0.017	<0.017	1	Xie et al., 2007	Total suspended matter
Central - marine; 0.75 um fraction	2004 (summer)	3	0.0085		<0.017	<0.017	<0.017	1	Xie et al., 2007	Total suspended matter
		25	**0.6**			**<0.017**	**5.8**			

BIS (2-EthylHexyl) Phthalate

Soil

Concentration in ug/kg dry weight

Location	Date	N	Average	SD	Median	Single Point	Range Low	Range High	Data Quality	Reference	Comments
Canada											
Port Credit, Oakville, Ontario	N/A	30					<0.1	11	4	Golder Associates, 1987 in Environment Canada CEPA	
			NA				**<0.1**	**11**			
USA											
Buffalo River-McNaughton Brooks Inc. industrial site	N/A	1	0.03					0.1	4	Lee et al, 1991	No sampling dates
USA-Normal soil	1982						20	1280	4	Russel et al, 1983	dry wt
		1	**0.03**				**0.03**	**1280**			
Florida - construction and demolition soil fines - Site A	N/A						<300	40,000	2	Jang and Townsend, 2001	Detected in 11 of 12 samples
Florida - construction and demolition soil fines - Site B	N/A						<300	16,400	2	Jang and Townsend, 2001	Detected in 4 of 5 samples
Florida - construction and demolition soil fines - Site C	N/A						<300	7,700	2	Jang and Townsend, 2001	Detected in 3 of 6 samples
Florida - construction and demolition soil fines - Site D	N/A						9,800	46,600	2	Jang and Townsend, 2001	Detected in 6 of 6 samples
Florida - construction and demolition soil fines - 12 Sites	N/A						<300	38,400	2	Jang and Townsend, 2001	Detected in 10 of 12 samples
US Soil	78-97	344	2,702,545	34,449,749	6650				4	ATSDR Hazdat, 1998	Assume contaminated; data extreme
USA-Sludge Fertilized soil	1987						7,800	18,400	4	Eiceman et al, 1989	Question mark in summary doc
Central & Northern Europe/UK											
Denmark, clean soil	N/A	1	50			<100			4	Maag and Lokke, 1990	dry wt
Denmark - Roskilde; uncultivated soil	1996	20	9.1		6		<0.5	27	1	Vikelsoe et al., 1999	0 to 50 cm; divided into 5 depth intervals of 10 cm each
Denmark - Roskilde; ecologically cultivated for 40 y	1996	20	19		16		14	32	1	Vikelsoe et al., 1999	0 to 50 cm; divided into 5 depth intervals of 10 cm each
Denmark - Roskilde; eco. cultivated for past 5 y (conventional prior)	1996	20	12		16		1	18	1	Vikelsoe et al., 1999	0 to 50 cm; divided into 5 depth intervals of 10 cm each
Denmark - Roskilde; cultivated using artificial fertilizer	1996	20	13		12		9	20	1	Vikelsoe et al., 1999	0 to 50 cm; divided into 5 depth intervals of 10 cm each
Denmark - Roskilde; sludge amended soil (medium amts)	1996	20	12		13		6	18	1	Vikelsoe et al., 1999	0 to 50 cm; divided into 5 depth intervals of 10 cm each
Denmark - Roskilde; sludge amended soil (low amts)	1996	20	20		21		17	23	1	Vikelsoe et al., 1999	0 to 50 cm; divided into 5 depth intervals of 10 cm each
Dusseldorf (Nordrhein Westfalen Waste Authority Bldg grounds)	91-92						<110	110	1	Furtmann, 1993	dry wt
Germany, Northeast Bavaria - forested area - topsoil	1998-99	2	201						4	Streck and Herrmann, 2000	
Germany-Clay controls	N/A				<100		<100	900	4	Merkel et al, 1996	7 values < 100
Germany-Clay with sludge	N/A						<100	1400	4	Merkel et al, 1996	
Germany-clean soils	N/A				<100		<100	300	4	Merkel et al, 1996	Summary of all soils, 86 were <100
Germany-Control site	N/A						50	75	4	Muller and Kordel, 1993	
Germany-Sandy Soils	N/A				250		<100	700	4	Merkel et al, 1996	
Germany-Sandy with sludge							<100	400	4	Merkel et al, 1996	
Munich-Normal Soil	1986	1	70			70			4	Kampe et al, 1986,1987	dry wt
Munich-Sludge Fertilized	1986						70	5100	4	Kampe et al, 1986,1987	dry wt
German - Background	N/A	1	24						4	Kampe et al, 1987; cited in NCI, 2000	
Germany, Stuttgart	N/A				249				4	UMEG, 1999 cited in Langenkamp and Part, 2001	162 samples; 90th percentile = 667 ug/kg
Niedersachsen	1985						25	880	4	Frank et al, 1990;UBA, 1987	dry wt
Netherlands	1999	34	53		45		<25	169	1	ALcontrol, 1999	Detected in 22 of 34 samples
UK - brickearth, Hamble Series	N/A	1	22.2			22.2			4	Gibson et al., 2005	
UK - gault clay, Evesham Series	N/A	1	75.8			75.8			4	Gibson et al., 2005	
		161	**26**				**<0.5**	**5100**			
Denmark - Roskilde; sludge amended soil (high amts)	1996	20	1112		990		590	1700	1	Vikelsoe et al., 1999	0 to 50 cm; divided into 5 depth intervals of 10 cm each
Denmark - Roskilde; sludge amended soil (high amts) 2 y later	1998	24	1675		1550		550	3400	1	Vikelsoe et al., 1999	0 to 60 cm; divided into 6 depth intervals of 10 cm each
Denmark - Roskilde; meadow in runoff zone from sludge storage	1996	20	157		26		5	670	1	Vikelsoe et al., 1999	0 to 50 cm; divided into 5 depth intervals of 10 cm each
Darmstadt-road dust	1983	1	23,000			23,000			4	Faltin et al, 1985	dry wt, in ECPI
Denmark, contaminated soil	N/A					22,000,000			4	Maag and Lokke, 1990	dry wt., industrial contamination of soil; excluded based on contamination
Finland near DEHP plant	N/A						ND	500	4	Persson et al, 1978	
Germany-near emitting plant	N/A							490	4	Muller and Kordel, 1993	
Germany-near emitting plant	N/A	1	186						4	Muller and Kordel, 1993	Max mean
Italy - DEHP contaminated site; PVC manufacturing site	N/A	1	5,510,000				2,000,000	10,000,000	4	Di Gennaro et al., 2005	dry wt; depths of 1 to 20 m
Netherlands-contaminated	1984	1	1500			1500			4	in Wams, 1987	dry wt
Poland near polymer plant	1993						74,000	45,700,000	4	Ruminski, et al, 1995	Soil at different depths near factory
Spain, haz dump site soils	N/A	8	16,000				30	100,000	3	Navarro et al, 1991	don't know if dry or wet wt
NPL and non-NPL HazWas	N/A		7100						4	CLPSD, 1990	32% of Samples >DL, Geometric Mean; extreme mean assumed contaminated

Legend

Data, changes or comments added in 2009

Excluded from calculated summary

Indicates average based on detection limit

BOLD **Calculated category summary**

Data Quality
1 - Reliable without restrictions
2 - Reliable with restrictions
3 - Not reliable
4 - Unassignable

Japan/Asia											
China, Beijing suburbs - greenhouse soil, 9 samples	2001						250	700	4	Ma et al., 2003	0 to 20 cm depth
China, Beijing - 30 locations in urban areas	N/A	30	1875	1483	1388		170	6491	4	Li et al., 2006	Topsoil, 5-30 cm; geo. mean = 1388 ug/kg; dry wt
China, Guangzhou - Panyu District, agricultural soil	2006 (July)	10	729		512		118	1690	1	Zeng et al., 2008b	Top 20 cm; ave. TOC = 1.94%; det. in 100% samples
China, Guangzhou - Haizhou District, agricultural soil	2006 (July)	4	2750		1620		1340	6400	1	Zeng et al., 2008b	Top 20 cm; ave. TOC = 2.84%; det. in 100% samples
China, Guangzhou - Tianhe District, agricultural soil	2006 (July)	12	597		529		107	1660	1	Zeng et al., 2008b	Top 20 cm; ave. TOC = 2.02%; det. in 100% samples
China, Guangzhou - Liwan District, agricultural soil	2006 (July)	8	4090		308		180	29370	1	Zeng et al., 2008b	Top 20 cm; ave. TOC = 2.72%; det. in 100% samples
China, Guangzhou - Baiyun District, agricultural soil	2006 (July)	6	610		282		210	2230	1	Zeng et al., 2008b	Top 20 cm; ave. TOC = 2.12%; det. in 100% samples
China, Guangzhou City - urban soil, roadside	2005 (Dec)	17	63200	74300	31900		1410	264000	1	Zeng et al., 2009	Top 5 cm; det. in 100% samples
China, Guangzhou City - urban soil, residential areas	2005 (Dec)	13	16100	25200	9220		1400	97200	1	Zeng et al., 2009	Top 5 cm; det. in 100% samples
China, Guangzhou City - urban soil, parks	2005 (Dec)	7	29400	55500	10400		892	154000	1	Zeng et al., 2009	Top 5 cm; det. in 100% samples
China, Harbin District (north) - black soil	2005 (May)	4	2350				440	4200	4	Xu et al., 2008	0 tp 20 cm depth; "dry wt" assumed
China, Handan District (central) - fluvo-aquic soil	2005 (May)	4	4858				1150	7990	4	Xu et al., 2008	0 tp 20 cm depth; "dry wt" assumed
China, Harbin and Handan Districts - non-cultivated fields	2005 (May)	1	1510			1510			4	Xu et al., 2008	0 tp 20 cm depth; "dry wt" assumed
China, Harbin and Handan Districts - greenhouse fields	2005 (May)	1	4610			4610			4	Xu et al., 2008	0 tp 20 cm depth; "dry wt" assumed
China, Harbin and Handan Districts - vegetable fields	2005 (May)	1	4670			4670			4	Xu et al., 2008	0 tp 20 cm depth; "dry wt" assumed
China, Jinan - greenhouse soil	N/A	1	2700						4	Wang et al., 2002; cited in Ma et al., 2003	
China, Jinan - soil outside greenhouses	N/A	1	1150						4	Wang et al., 2002; cited in Ma et al., 2003	
China, Shenyang - greenhouse soil	N/A	1	630						4	Tang et al., 1993; cited in Ma et al., 2003	
China - agricultural soil from 23 locations	N/A	23	2500	1870	2150		200	7110	1	Hu et al., 2003	Surface soil, 0 to 5 cm depth
Japan-soil/sand	N/A						10	500	4	Yano, 1979	
		144	**11,869**				**10**	**264,000**			
Other											
Mexico, Hidalgo - agr. area irrigated with untreated wastewater 90 y	N/A						820	2079	4	Duran-Alvarez et al., 2009	upper 30 cm

BIS (2-EthylHexyl) Phthalate **Air**

Concentration as ng/m^3

Location	Date	N	Average	SD	Median	Single Point	Range Low	Range High	Data Quality	Reference	Comments
USA											
Outdoor											
Barrow, Alaska	1979	1	21						1	Weschler, 1981	aerosol
College Station, TX	N/A	1	2.4						4	USEPA, 87	
College Station, TX	79-80	13	2	0.23			0.77	3.6	4	Atlas and Giam, 1988	
Great Lakes Region		3	2				0.5	5	4	Eisenreich, 1981	in Meek and Chan, 1994 and National Health and Welfare, 1993; also incl. in Cdn data
Gulf of Mexico	1977	1	0.4				<0.4	2.3	4	Giam and Neff, 1978	
Gulf of Mexico	73-74	1	1.1						4	Giam, et al, 1980	Different Technique from later work
NY,NY	N/A	1	13.7						4	USEPA, 87	
NY,NY	1975	1	13.5				4.9	29	4	Bove et al, 1978	
Outdoor Air Lubbock, TX (particulates)	N/A	1	2						1	Weschler, 1984	
Outdoor Air Wichita, KS	N/A	1	2.2						1	Weschler, 1984	
Pigeon Key, FL	1980	1	16.6						4	Atlas and Giam, 1981	
Portland, OR, during rain	1984	7	8.8				ND	22	2	Ligocki et al, 1985	aerosol (particulate) conc. during rain event
Riverside, CA-Outdoor Air Day	1990				28			65	2	Sheldon et al, 1993	90th percentile=65
Riverside, CA-Outdoor Air Night	1990				NQ			38	2	Sheldon et al, 1993	NQ=Below method quant limit, 90th percentile=38
Sterling Forest, NY	N/A	1	2.8						4	USEPA, 87	
Texas, Gulf Coast	1984	1	0.62						4	Chang et al, 1985	
		34	**5.0**				**<0.4**	**65**			
Gulf of Mexico	1977	10	1.34	0.49			0.53	1.92	3	Giam, et al, 1980	0.1 in blanks
Indoor											
Indoor Air Lubbock, TX	N/A	1	20						1	Weschler, 1984	
Indoor Air Wichita, KS	N/A	1	55						1	Weschler, 1984	
Riverside, CA-Indoor Air	1990	105	110	7.9	103			215	4	CARB, 1992	90th percentile =215
Riverside, CA-Indoor Air Day	1990				110			240	2	Sheldon et al, 1993	90th percentile=240
Riverside, CA-Indoor Air Night	1990				93			170	2	Sheldon et al, 1993	90th percentile=170
Residential/office/personal exposure	2000	4	61				20	114	1	Rudel et al, 2001	Detected in 4 of 6 samples
Cape Cod, MA - 120 residences; 24 hour sample	1999-2001	102	109		77		<59	1000	2	Rudel et al, 2003	Detected in 68% of samples
New York City, indoor air - residences; 2 week samples	2001-2006	32	90						2	Adibi et al., 2008	"Average" is geo mean
New York City; personal air samples (48 h)	2001-2006	96	180		190		70	490	2	Adibi et al., 2008	Det. in 100% samples; low and high are 5th and 95th perc., resp.; ave. is geo mean
New York City - personal air samples (48 h)	2000 (Mar-July)	30	220	100	220		50	410	1	Adibi et al., 2003	
		371	**134**				**20**	**1000**			
Workplace - plastics melting	2000	1	11500			11500			1	Rudel et al, 2001	
Central Europe/UK											
Outdoor - vapour phase and total air											
Belgium-Urban area	<1985						30	130	4	Bouscaren et al, 1985	
EU industry	N/A						71	1090	4	in King letter, 1996	
Italy - near DBP processing plant	1999	2	130				100	160	1	RIC, 1999	
Kortrijk-1 km upwind of incinerator	1998	1	2			2			1	RIC, 1998	
Kortrijk-100m from Greenhouse	1998	1	1.65			<3.3			1	RIC, 1998; Tienpont, et al. 2000	
Kortrijk-10m from Greenhouse	1998	1	4			4			1	RIC, 1998	
Kortrijk-1m from Greenhouse	1998	1	13			13			1	RIC, 1998	
Kortrijk-City Traffic	1998	1	34			34			1	RIC, 1998	
Kortrijk-Highway Traffic	1998	1	1			1			1	RIC, 1998	
Kortrijk-Outside Laboratory	1998	5	12						1	RIC, 1998	
Belgium - Rural area	1998?	3	1.65				<3..3	<3.3	1	Tienpont, et al. 2000	
France, Paris - total atmospheric conc.	May 2002-Apr 03	20	17.5	7.7					4	Teil et al. 2006	
France, Paris - vapour phase	May 2002-Apr 03	20	13.2		12.3		3.4	25.7	4	Teil et al. 2006	
Germany, Geesthacht - GKSS Research Centre	N/A	6	0.098				0.046	0.16	1	Xie et al., 2006	Vapour; 5 m above ground
Germany, Northeast Bavaria - forested area - vapour phase	1998-99						0.3	1.6	4	Streck and Herrmann, 2000	5 samples
Netherlands - Gilze-Rijen (Breda); 2 km from highway	2000	2	25				23.4	25.9	1	David and Sandra, 2001	Total air (vapour + aerosol); winter
Netherlands - Gilze-Rijen (Breda); 2 km from highway	2000	2	57				55	60	1	David and Sandra, 2001	Summer
Netherlands - Gilze-Rijen (Breda); 2 km from highway	2001	2	1				<2	<2	1	David and Sandra, 2001	Winter
Netherlands - Pernis (Rotterdam); 5 km from chemical industry	2000	2	31				28.4	34.4	1	David and Sandra, 2001	Winter
Netherlands - Pernis (Rotterdam); 5 km from chemical industry	2000	2	333				266	400	1	David and Sandra, 2001	Summer
Netherlands - Pernis (Rotterdam); 5 km from chemical industry	2001	2	1				<2	<2	1	David and Sandra, 2001	Winter
Netherlands - Pernis (Rotterdam); 5 km from chemical industry	2001	2	49				44	55	1	David and Sandra, 2001	Summer
Netherlands - Speulderveld (north of Utrecht); remote area	2000	2	8				7.8	9.0	1	David and Sandra, 2001	Winter
Netherlands - Speulderveld (north of Utrecht); remote area	2000	2	9				9	10	1	David and Sandra, 2001	Summer
Netherlands - Speulderveld (north of Utrecht); remote area	2001	2	1				<2	<2	1	David and Sandra, 2001	Winter
Netherlands - Speulderveld (north of Utrecht); remote area	2001	2	21				18	25	1	David and Sandra, 2001	Summer
Netherlands - Vianen (Utrecht); 100 m from highway	2000	2	52				49.9	53.9	1	David and Sandra, 2001	Winter
Netherlands - Vianen (Utrecht); 100 m from highway	2000	2	72				48	96	1	David and Sandra, 2001	Summer
Netherlands - Vianen (Utrecht); 100 m from highway	2001	2	1				<2	<2	1	David and Sandra, 2001	Winter
North Sea - German Bight	2004 (Feb-Mar)	10	0.29	0.07	0.30		0.22	0.36	1	Xie et al., 2005	Vapour
U.K., Birmingham - 10 m from busy road	1999-2000	24	5.98	2.22					4	Harrad et al., 2003	Sampled 24 times over a 1 y period; suspended partic. matter and vapour
U.K., Birmingham - University "green space"	1999-2000	24	8.20	5.23					4	Harrad et al., 2003	Sampled 24 times over a 1 y period; suspended partic. matter and vapour
Northern Europe											
Denmark	1983	1	22			22			4	Lokke, 1983	
Denmark	1995	1	168				21	500	2	Clausen and Wolkoff, 1997	
Sweden	1990	53	2				0.28	77	1	Thuren et al, 1990	
		203	**15**				**0.046**	**1090**			
Europe											
Outdoor - particulates											
Aachen, Germany	1990	1	24	14.5	21.2		7.4	52.8	4	Shulz and Puttmann, 1993	24hr Sample, Air particulates
France, Paris - particulate phase	May 2002-Apr 03	20	5.4		5.2		2.4	10.4	4	Teil et al. 2006	
Germany, Northeast Bavaria - forested area- aerosol particles	1998-99						0.7	5.7	4	Streck and Herrmann, 2000	5 samples
Germany, Geesthacht - GKSS Research Centre	N/A	6	1.03				0.70	1.37	1	Xie et al., 2006	Particles; 5 m above ground
North Sea - German Bight	2004 (Feb-Mar)	10	1.0	0.08	0.97		0.95	1.1	1	Xie et al., 2005	Particles
		37	**4.0**				**0.7**	**52.8**			
Antwerp, Belgium	1977	1	70				26	132	3	Cautreels et al, 1979	ECPI indicate sampling equipment may result in contamination
Belgium-2 km from incinerator	1976				54.1		30.9	75.5	3	Cautreels and Van Cauwenberghe, 1978	Assd with air particulates,ECPI indicate sampling equip. may result in contamination
Belgium-2 km from incinerator	1976				127		126	128	3	Cautreels and Van Cauwenberghe, 1978	Assd with gas phase,ECPI indicate sampling equip. may result in contamination
Italy- 1 km from Presidio, particulate + gas??	1995	2	2.57E+07				2.05E+07	3.10E+07	4	Guidotti et al., 1998	not sure if particulate or particulate + gas
Italy- near Presidio Multizonale, particulate + gas??	1995	4	5.04E+08		2.70E+08		3.75E+07	1.44E+09	4	Guidotti et al., 1998	not sure if partic. or partic. + gas; 2 highest values may be related to constructn activity
Italy - near DBP/DEHP processing plant	1999	2	2295				1050	3540	1	RIC, 1999	
Italy - stack emission DBP processing plant	1999	1	14420			14420			1	RIC, 1999	
Italy - stack emission DBP/DEHP processing plant	1999	1	3256920			3256920			1	RIC, 1999	
Italy - unfiltered emission DBP/DEHP processing plant	1999	2	8564400				7858030	9264770	1	RIC, 1999	

Legend

Data, changes or comments added in 2009

Excluded from calculated summary

Indicates average based on detection limit

BOLD **Calculated category summary**

Data Quality
1 - Reliable without restrictions
2 - Reliable with restrictions
3 - Not reliable
4 - Unassignable

Kortrijk-PVC proc exhaust	1998	1	223586			223586			1	RIC, 1998	exhaust
Kortrijk-300m downwind of incin	1998	1	3			3			1	RIC, 1998	
Kortrijk-Incin Exhaust, filtered	1998	1	48			48			1	RIC, 1998	
Kortrijk-Incin Exhaust, unfiltered	1998	1	123			123			1	RIC, 1998	
Kortrijk-PVC proc prod unit	1998	1	381			381			1	RIC, 1998	
Indoor											
Central Europe/UK											
Kortrijk-Basketball Game indoor	1998	5	364				135	553	1	RIC, 1998	
Kortrijk-Flooring shop	1998	1	96			96			1	RIC, 1998	
Kortrijk-House w/15yr old PVC floor	1998	1	111			111			1	RIC, 1998	
Kortrijk-House w/5yr old PVC floor	1998	1	26			26			1	RIC, 1998	
Kortrijk-Inside Laboratory	1998	5	110						1	RIC, 1998	
Kortrijk-InsideGreenhouse	1998	1	309			309			1	RIC, 1998; Tienpont et al. 2000	
Kortrijk - Kindergarten	2000	2	144				142	146	1	RIC, 2000	
Kortrijk-Underground Parking	1998	5	480				228	1046	1	RIC, 1998	
Kortrijk-Underground Parking	1999	1	295			295			1	RIC, 1998	summer; parking not full
Kortrijk-Underground Parking	1999	1	406			406			1	RIC, 1998	summer; full capacity
Inside Car 1	1998	1	19			19			1	RIC, 1998	
Inside Car 2-New	1998	1	18			18			1	RIC, 1998	
Inside Car 2-Old	1998	1	41			41			1	RIC, 1998	
Germany, Berlin - 40 flats	N/A							2200	4	BAUCH, 1991 cited in Wensing et al. 2005	
Germany, Berlin - 59 apartments	2000-01	59	191		156		N/A	615	4	Fromme et al., 2004	95th percentile = 390 ng/m3
Germany, Berlin - 74 kindergartens	2000-01	73	599		458		N/A	2253	4	Fromme et al., 2004	95th percentile = 1510 ng/m3
Poland, Krakow - personal air samples (48 h)	2000-01	30	430	240	370		80	1100	1	Adibi et al., 2003	
Switzerland, Zurich - laboratory air	N/A	2	1650				900	2400	1	Fankhauser-Noti & Grob, 2007	
Northern Europe											
Norway, Oslo University College corridor - measured on PM10	2003	1	5.9			5.9			1	Rakkestad et al., 2007	
Norway, Oslo University College office - measured on PM10	2003	1	6.5			6.5			1	Rakkestad et al., 2007	
Norway, Oslo University College stairway - measured on PM10	2003	1	7.7			7.7			1	Rakkestad et al., 2007	
Norway, Oslo University College computer room - measured on PM10	2003	1	5.5			5.5			1	Rakkestad et al., 2007	
Norway, Oslo University College hall - measured on PM10	2003	1	9.1			9.1			1	Rakkestad et al., 2007	
Norway, Oslo University College hall - measured on PM2.5	2003	1	13.3			13.3			1	Rakkestad et al., 2007	
Norway, Lysejordet primary school corridor - measured on PM10	2003	1	24.5			24.5			1	Rakkestad et al., 2007	
Norway, Lysejordet primary school corridor - measured on PM2.5	2003	1	2.4			2.4			1	Rakkestad et al., 2007	
Norway, Lysejordet primary school playroom - measured on PM10	2003	1	3.9			3.9			1	Rakkestad et al., 2007	
Norway, Lysejordet primary school playroom - measured on PM2.5	2003	1	0.3			0.3			1	Rakkestad et al., 2007	
Norway, Smestad primary school corridor - measured on PM10	2003	1	24.2			24.2			1	Rakkestad et al., 2007	
Norway, Smestad primary school corridor - measured on PM2.5	2003	1	15			15			1	Rakkestad et al., 2007	
Norway, Smestad primary school library - measured on PM10	2003	1	2.1			2.1			1	Rakkestad et al., 2007	
Norway, Smestad primary school library - measured on PM2.5	2003	1	3.7			3.7			1	Rakkestad et al., 2007	
Norway, Vestjordet kindergarten - measured on PM10	2003	1	5.0			5.0			1	Rakkestad et al., 2007	
Norway, Vestjordet kindergarten - measured on PM2.5	2003	1	9.1			9.1			1	Rakkestad et al., 2007	
Norway, Grefsen kindergarten - measured on PM10	2003	1	14.9			14.9			1	Rakkestad et al., 2007	
Norway, Grefsen kindergarten - measured on PM2.5	2003	1	5.6			5.6			1	Rakkestad et al., 2007	
Norway, Lindern kindergarten - measured on PM10	2003	1	11.7			11.7			1	Rakkestad et al., 2007	
Norway, Lindern kindergarten - measured on PM2.5	2003	1	7.4			7.4			1	Rakkestad et al., 2007	
Norway, Lysejordet dwelling children's room - measured on PM10	2003	1	28.8			28.8			1	Rakkestad et al., 2007	
Norway, Lysejordet dwelling children's room - measured on PM2.5	2003	1	10.4			10.4			1	Rakkestad et al., 2007	
Norway, Korsvoll dwelling sitting room - measured on PM10	2003	1	9.3			9.3			1	Rakkestad et al., 2007	
Norway, Korsvoll dwelling sitting room - measured on PM2.5	2003	1	6.8			6.8			1	Rakkestad et al., 2007	
		214	**363.6**				**0.3**	**2400**			
France - DEHP manufacturing plant	N/A						2000	12000	4	Protois et al., 2007	Workplace ambient air and personal air samples
France - extrusion plant	N/A						3000	2.47E+09	4	Protois et al., 2007	Workplace ambient air and personal air samples
France - thermal welding plant	N/A						20000	50000	4	Protois et al., 2007	Workplace ambient air and personal air samples
France - injection plant	N/A						16000	424000	4	Protois et al., 2007	Workplace ambient air and personal air samples
France - compounding plant	N/A						18000	1.89E+09	4	Protois et al., 2007	Workplace ambient air and personal air samples
France - stamping plant	N/A						<5000	<5000	4	Protois et al., 2007	Workplace ambient air and personal air samples
Aachen, Germany	1990	1	3359	4770.3	2012.5		986.6	17596.9	4	Shulz and Puttmann, 1993	1 hr Sample, Air particulates
Italy - Inside DBP processing plant	1999	1	580			580			1	RIC, 1999	
Italy - Inside DBP/DEHP processing plant	1999	1	52490			52490			1	RIC, 1999	
Stockholm-occupational exposure	N/A					6.60E+07			4	Arbete Och Halsa, 1983; 36	in Fishbein, 1992; extreme
Finland-occupational exposure	N/A						20	500	4	Vainiotalo, 1990	
Canada											
Outdoor											
Outdoor air, Great Lakes Region		3	2				0.5	5	4	Eisinreich et al., 1981	in O'Connor, 1996
		3	**2.0**				**0.5**	**5**			
Niagra River (January)	82-83	1	1.1	0.67					3	Hoff and Chan, 1987	Stated DIOP in Text
Niagra River (September)	82-83	1	0.34	0.3					3	Hoff and Chan, 1987	Stated DIOP in Text
Indoor											
Home Indoor Air, Ontario	83-84						<500	3100	4	Otson and Benoit, 1985	in Meek and Chan, 1994, National Health and Welfare, 1993; quantitation limit = 500
			NA				**<500**	**3100**			
Ontario, Near muni Incinerator	N/A	1	300						2	Thomas, 1973	
Japan/Asia											
Outdoor											
China - Nanjing, daytime - measured as PM2.5	2004 (summer)	7	175	92			95	357	1	Wang, G. et al., 2007	Total PM2.5 = 128 ug/m3 (range 56 to 187)
China - Nanjing, nighttime - measured as PM2.5	2004 (summer)	7	228	104			128	253	1	Wang, G. et al., 2007	Total PM2.5 = 135 ug/m3 (range 43 to 176)
China - Nanjing, daytime - measured as PM2.5	2004 (winter)	7	132	96			57	333	1	Wang, G. et al., 2007	Total PM2.5 = 124 ug/m3 (range 97 to 162)
China - Nanjing, nighttime - measured as PM2.5	2004 (winter)	7	151	82			25	247	1	Wang, G. et al., 2007	Total PM2.5 = 113 ug/m3 (range 40 to 153)
Japan - Doshigawa	1985						160	650	4	Kishi Letter, 1996	
Japan - Kobe	1985						140	650	4	Kishi Letter, 1996	
Japan - Nagano	1985						40	180	4	Kishi Letter, 1996	
Japan - Napporo	1985						110	350	4	Kishi Letter, 1996	
Japan - Nishihobensan	1985						<40	170	4	Kishi Letter, 1996	
Japan - Norikura	1985						<17	200	4	Kishi Letter, 1996	
Japan - Ohmuta	1985						58	150	4	Kishi Letter, 1996	
Osaka - Industrial Area	1980	1	99						4	BUA, 1988	
Japan - Out air	N/A	1	2800			2800			4	Yano, 1979	
Japan - Rokko	1985						140	790	4	Kishi Letter, 1996	
Japan - Sangunsan	1985						46	91	4	Kishi Letter, 1996	
Japan - Tokuyama	1985						120	360	4	Kishi Letter, 1996	
Japan - Yokohama	1985						250	370	4	Kishi Letter, 1996	
Japan, Osaka - measured outside car, 1.2 m above ground	2000-02	30	70				10	350	4	Yoshida and Matsunaga, 2006	Values read from graph
Japan	1996						8	323	4	Japan MOE, 2003	Detected in 11 of 18 samples; det. limit of 6 ng/m3
Japan - Industrial areas	1998 (Oct.-Dec.)	59	37		<33		<33	170	4	Japan MOE, 1999a	Detected in 22 of 59 samples
Japan - Residential areas	1998 (Oct.-Dec.)	60	46		<33		<33	320	4	Japan MOE, 1999a	Detected in 23 of 60 samples

Japan - Suburbs	1998 (Oct.-Dec.)	59	40		<33		<33	360	4	Japan MOE, 1999a	Detected in 16 of 59 samples
Japan - Industrial areas	2000 spring	6	23		25		8.0	34	4	Japan MOE, 2000a	Detected in all 6 samples
Japan - Residential areas	2000 spring	6	13		12		6.2	22	4	Japan MOE, 2000a	Detected in all 6 samples
Japan - Suburbs	2000 spring	6	12		12		<4.2	23	4	Japan MOE, 2000a	Detected in 5 of 6 samples
Japan - outdoor air	N/A	1	50			<100			4	Toda et al., 2004	
		257	**68**				**<4.2**	**2800**			
Korea - nationwide survey of 24 sites	N/A						14.992	898.535	4	Choi et al., 2001	Detected in all 24 samples; units presented as ng/Nm3
Japan - Ibaraki Prefecture	1991	1	260000			260000			3	Watanabe, 2001	March; 1.5 m above ground surface
Japan - Ibaraki Prefecture	1991	8	956000				87000	5300000	3	Watanabe, 2001	March; 150 m to 800 m above ground surface
Japan - Chiba Prefecture	1992	2	15500				10000	21000	3	Watanabe, 2001	August; 1.5 m and 5 m above ground surface
Japan - Chiba Prefecture	1992	3	12700				3000	21000	3	Watanabe, 2001	August; 30 m to 100 m above ground surface
Indoor											
Room air	N/A	1	1000			1000			4	Yano, 1979	
Japan - inside car; 1 d to 3 y after delivery	1999-2002	44	350				15	2500	4	Yoshida and Matsunaga, 2006	Values read from graph
Tokyo - six houses	2000	6	80		60		40	230	1	Otake et al, 2001	Sampling in April and May
Tokyo - 27 houses and apartments - spring and autumn	2000	27	320	600	110		<1	3130	4	Otake et al, 2004	Includes data presented in Otake et al., 2001
Japan - office air	N/A	3	100		<100		<100	200	4	Toda et al., 2004	
		81	**319**				**<1**	**3130**			
Other											
North Atlantic	1977		2.9				1.4	4.1	4	Giam et al., 1978	
North Atlantic	<1985						0.3	1.9	4	Bouscaren et al, 1985	in ECPI
North Pacific	1981		1.4				0.3	2.7	4	in Wams, 1987	
Remote marine areas	N/A		1						4	Atlas and Giam, 1981	
Arctic - gas phase	2004 (summer)	6	0.221		0.215		0.075	0.460	1	Xie et al., 2007	
Arctic - particle phase	2004 (summer)	6	0.543		0.589		0.264	0.735	1	Xie et al., 2007	
Factories using Phthalates	N/A						2.00E+06	6.60E+07	4	Wams, 1987	
Indoor Industrial	N/A							5000000	4	Wams, 1987	
Indoor room w/new floor	N/A						2.00E+05	3.00E+05	4	Wams, 1987	
Indoor room w/new floor	N/A						150000	260000	4	Wams, 1987	
Inside Car	N/A							1.00E+06	4	Wams, 1987	
Inside new car	N/A						10000	300000	4	GDCh, 1986	at 25 to 60C
Inside sun heated car	N/A							140000	4	GDCh, 1986	at 70C
La Paz, Bolivia	1977		19				17	20	3	Cautreels et al, 1979	ECPI indicate sampling equipment may result in contamination
Japan - clean rooms at semiconductor plants	N/A	4	50		<100		<100	<100	4	Toda et al., 2004	
Urban and Industrial Areas	N/A							29	4	Refs in CMA paper	

Dust

Concentration in ug/kg dry weight

Location	Date	N	Average	SD	Median	Single Point	Range Low	Range High	Data Quality	Reference	Comments
USA											
Indoor											
Indoor - One office sample, five residential samples	2000	6	3.15E+05	1.53E+05			6.94E+04	5.24E+05	1	Rudel et al, 2001	Sieved to < 150 um
CA, Davis - household dust (10 apartments)	2004 (fall)	10	6.45E+05	6.17E+05	4.27E+05		1.04E+05	2.05E+06	1	Hwang et al., 2008	Vacuum cleaner bag collection; sieved to < 100 um
CA, Davis - community hall	2004 (fall)	1	2.73E+05			2.73E+05			1	Hwang et al., 2008	Vacuum cleaner bag collection; sieved to < 100 um
KS, Wichita - Indoor Dust	N/A	1	4.10E+06			4.10E+06		4.10E+06	1	Weschler, 1984	
MA, Cape Cod - 120 residences	1999-2001	101	5.06E+05		3.40E+05		1.67E+04	7.70E+06	2	Rudel et al, 2003	Detected in 100% of samples; detection limit = 8000 ug/kg
TX, Lubbock - Indoor Dust	N/A	1	2.38E+06			2.38E+06		2.38E+06	1	Weschler, 1984	
		120	**5.52E+05**				**1.67E+04**	**7.70E+06**			
Europe											
Outdoor											
France, Paris - particulates	May 2002-Apr 03	20	2.96E+05		2.37E+05		300	6.32E+05	4	Teil et al. 2006	
		20	**2.96E+05**				**300**	**6.32E+05**			
Indoor											
Belgium, Kortrijk-Flooring shop-1	1998	1	3.96E+06			3.96E+06			1	RIC, 1998	
Belgium, Kortrijk-Flooring shop-2	1998	1	1.32E+06			1.32E+06			1	RIC, 1998	
Belgium, Kortrijk-House w/15 year old PVC Floor	1998	1	1.88E+06			1.88E+06			1	RIC, 1998	
Belgium, Kortrijk-House w/5 year old PVC Floor	1998	1	3.42E+05			3.42E+05			1	RIC, 1998	
Belgium, Kortrijk - Kindergarten floor	2000	1	1.68E+05			1.68E+05			1	RIC, 2000	
Belgium, Kortrijk-Sports Arena Indoor	1998	1	7.60E+04			7.60E+04			1	RIC, 1998	
Belgium, Kortrijk - Underground parking	1998	1	2.00E+03			2.00E+03			1	RIC, 1998	
Belgium, Kortrijk - Underground parking	1999	1	4.06E+04			4.06E+04			1	RIC, 1998	
Belgium - House Dust	N/A	12	1.54E+06		1.68E+06		1.48E+05	4.40E+06	4	David et al., 2001	
Belgium - dust from homes & offices (69 locations); 2 mm fraction	2003	23	3.39E+05		2.45E+05		6.31E+04	8.41E+05	4	Greenpeace Belgium, 2004	23 individual and pooled samples
Bulgaria, Sofia & Burgas- children's rooms (dust above floor level)	2004-2005	177	9.60E+05		1.05E+06			2.94E+07	4	Kolarik et al., 2008a and b	Det. in 100% samples; 95th%CI of geo mean = 7.9E+05 to 1.17E+06
Denmark - school dust	N/A	15	3.21E+06					7.06E+06	1	Clausen et al., 2003	Max. is 95th percentile; 90th percentile = 6.40E+06
Denmark - house dust	2001	23	8.58E+05					2.60E+06	4	cited in Clausen et al., 2003	Max. is 95th percentile; 90th percentile = 1.76E+06
Denmark - house dust	2002	3	1.36E+05		1.79E+05		4.55E+04	1.84E+05	4	Santillo, et al. 2003	Detected in all 3 samples
Finland - house dust	2002	3	3.60E+05		3.54E+05		1.48E+05	5.79E+05	4	Santillo, et al. 2003	Detected in all 3 samples
France - house dust	2002	1	1.85E+05			1.85E+05			4	Santillo, et al. 2003	
Germany - house dust	2001							2.60E+06	4	Butte et al. 2001 cited in Clausen et al.2003	286 houses; max. is 95th percentile
Germany - house dust	1997							2.00E+06	4	Pohner et al. 1997 cited in Clausen et al. 2003	272 houses; max. is 95th percentile; 90th percentile = 1.6E+06
Germany - House Dust	N/A	4	2.10E+05				1.90E+05	4.58E+06	4	Bruns-Weller and Pfordt, 2000	
Germany, Berlin - house dust, 30 apartments	2000-01	30	7.76E+05		7.03E+05		N/A	1.76E+06	4	Fromme et al., 2004	95th percentile = 1,542,000
Germany - house dust, urban and rural; 63 um fraction	2001-2002	252	5.08E+05		5.15E+05		2.20E+04	5.33E+06	4	Becker et al., 2004	95th percentile = 1,840,000
Germany - Hamburg; house dust, 65 homes; 63 um fraction	N/A				6.00E+05				4	Kersten & Reich, 2003 cited in Becker et al. 2004	95th percentile = 1,600,000
Germany - house dust, 272 homes; "fine dust"	N/A				4.50E+05				4	Pohner et al. 1998 cited in Becker et al. 2004	95th percentile = 2,000,000
Germany - North; house dust, 286 homes; 63 um fraction	N/A				7.40E+05				4	Butte & Heinzow, 2002 cited in Becker et al. 2004	95th percentile = 2,600,000
Germany - house dust, 199 homes; 2 mm fraction	N/A				4.16E+05				4	Becker et al, 2002 cited in Becker et al. 2004	95th percentile = 1,190,000
Netherlands - House dust	2001	115	8.08E+05	5.58E+05	7.25E+05		7.60E+04	3.73E+06	4	Greenpeace, 2001	90th percentile = 1,413,000
Netherlands - School dust	2001	12	1.24E+06	1.18E+06	9.01E+05		1.78E+05	4.57E+06	4	Greenpeace, 2001	90th percentile = 1,783,000
Netherlands - Office dust	2001	7	8.91E+05	3.86E+05	7.23E+05		4.95E+05	1.44E+06	4	Greenpeace, 2001	90th percentile = 1,387,000
Netherlands - Hospital, university, hotel dust	2001	3	1.56E+06	1.58E+06	6.91E+05		6.12E+05	3.38E+06	4	Greenpeace, 2001	90th percentile = 2,843,000
Norway - House Dust- Oslo-Sedimented Dust	1992-93	38	6.40E+05				1.00E+05	1.61E+06	2	Oie et al., 1997	38 dwellings
Norway - House Dust- Oslo-Suspended Particulate Matter	1992-93	6	6.00E+05	3.00E+05			2.40E+05	9.40E+05	2	Oie et al., 1997	6 dwellings
Spain - house dust	2002	1	1.94E+05			1.94E+05			4	Santillo, et al. 2003	
Sweden - house dust	2002	2	2.23E+05		2.23E+05		2.07E+05	2.39E+05	4	Santillo, et al. 2003	
Sweden - house dust; children's bedrooms	Oct 2001-Apr 2002	346	1.31E+06		7.70E+05		<40,000		1	Bornehag et al., 2004	Detected in 343 samples; geo. mean = 789,000
U.K. - house dust	2002 (Oct-Nov)	29	1.92E+05		1.95E+05		5.00E+02	4.16E+05	4	Santillo, et al. 2003	Detected in all 29 samples
		1110	**9.30E+05**				**5.00E+02**	**2.94E+07**			
Denmark- Arhus; 7 office buildings	N/A						4,900	1.00E+04	3	Molhave et al., 2000	Max. conc. was found prior to storage; min. conc. after 2 wks. of storage

Other		Concentration as ng/m3								
College Station, TX Dry deposition- partic. matter conc.	1979	3	0.48					4	Atlas and Giam, 1988	units or low data
House Dust	N/A		>200,000			>200,000		4	Papadopoulos et al, 1996	no location

Deposition — Units of ug/m2/y

Location	Date	N	Average	SD	Median	Single Point	Range Low	Range High	Data Quality	Reference	Comments
Europe											
Denmark, Roskilde, Lille Valby meteorological station	1996-97	15	228	207			25	789	2	Vikelsoe et al., 2001	
France, Paris - bulk deposition	May 2002-Apr 03	1	869.7						4	Teil et al. 2006	Wet dep = 273.7 ug/m2/y; calc. dry dep. = 596.0 ug/m2/y
		16	**268**				**25**	**869.7**			

Precipitation — Concentration in ug/L

Location	Date	N	Average	SD	Median	Single Point	Range Low	Range High	Data Quality	Reference	Comments
USA											
Rain-College Station, TX	1979	20	0.171	0.032			0.023	0.62	4	Atlas and Giam, 1988	N=20, ug/L
Rain-Great Lakes		1	0.006				0.004	0.01	4	Eisenreich, 1981	
Rain-Portland	1984	1	0.28				ND	0.68	2	Ligocki et al, 1985a	conc. in particulate fraction of rain, ug/L
		22	**0.17**				**0.004**	**0.68**			
Central Europe/UK											
Rain Percolate: Hessen-Greb	N/A						0.73	0.8	4	Schleyer et al, 1991	
Rain Percolate: Hessen-Kon	N/A						0.67	0.86	4	Schleyer et al, 1991	
Rain Percolate: Hessen-Mohrf	N/A						0.68	0.82	4	Schleyer et al, 1991	
Rain Percolate: Hessen-Witzh	N/A						0.74	1	4	Schleyer et al, 1991	
Rain, Hessen-Greb	N/A						0.49	0.68	4	Schleyer et al, 1991	
Rain, Hessen-Kon	N/A						0.48	0.63	4	Schleyer et al, 1991	
Rain, Hessen-Mohrf	N/A						0.59	0.94	4	Schleyer et al, 1991	
Rain, Hessen-Witzh	N/A						0.77	0.9	4	Schleyer et al, 1991	
Rain-Belgium	1976	1	54			54			4	Verschuren, 1983	
Rain-Bocholt	92	1	1.2		1.2		0.11	9.82	1	Furtmann, 1993	ug/L
France, Paris - rainwater	May 2002-Apr 03	72	0.423						4	Teil et al. 2006	
Rain-Dusseldorf	91	1	0.41		0.41		ND		1	Furtmann, 1993	ug/L
Rain-Dusseldorf	92	1	0.49		0.49		0.19		1	Furtmann, 1993	ug/L
Rain-Germany:Hessen	1988						0.9	1.5	4	Renner et al, 1990	in ECPI
Germany, Northeast Bavaria - forested area - rain	1998-99						0.016	0.0833	4	Streck and Herrmann, 2000	6 samples
Netherlands - rainwater	1999				0.77		0.69	1.7	1	Vethaak, et al. 2002	Detected in 3 of 3 samples
NL (47), Germany (2), Belgium (1); wet and dry deposition	2003 (Feb-Apr)	50	4.037	4.697	2.37		0.574	30.902	1	Peters, 2003	Detected in 100% of samples; MDL 0.010 ug/L
Northern Europe											
Snow-Denmark:Copenhagen	1981						0.7	4.7	4	Lokke et al, 1983	in ECPI
Rain-Sweden	1984						0.0083	0.43	1	Thuren et al, 1990	
		126	**2.3**				**0.0083**	**54**			
Canada											
Precipitation, Great Lakes		1	0.006				0.004	0.01	4	Eisenreich et al., 1981	reported in O'Connor, 1996
		1	**0.006**				**0.004**	**0.01**			
Snow - Quebec, greenspace in downtown Montreal	N/A	1	130			130			3	Horn et al., 2004	
Japan/Asia											
Rain-N.Pacific: Enewetak Atoll	1979	1	0.055				0.0053	0.21	4	Atlas et al, 1981	
Rain-Japan	1974						0.06	18	4	Japan MOE, 2003	Detected in 69 of 111 samples; det. limit of 0.06 to 2 ug/L
Rain-Japan	1974	1	1.8						4	Tomita et al, 1977	in ECPI
Rain-Japan	<1979						0.65	3.2	4	ECETOC, 1985; BUA, 1986	
Rain-Japan	N/A						0.1	0.8	4	Yano, 1979	
Russia, Baikal region - snow water	1997 (March)	2	1.2				0.6	1.7	1	Baram et al., 2000	
Russia, City of Irkutsk - rain water	1998 (June)	2	0.3				<0.3	0.3	1	Baram et al., 2000	
Rain-Taiwan	95-96	1	16.5	0.8					4	Yin and Su, 1996	
		7	**3.1**				**0.0053**	**18**			
Rain-St Tonis	92	12			1.3		0.52	6.76	1	Furtmann, 1993	ug/L

BIS (2-EthylHexyl) Phthalate **Drinking Water**

Concentration in ug/L

Location	Date	N	Average	SD	Median	Single Point	Range Low	Range High	Data Quality	Reference	Comments
USA											
New Orleans DW	<1982						0.16	1.2	4	WHO, 1982	in ECPI
Onondoga Co., NY, Drinking Water	1993	1	0.1				<0.2	<1.0	4	Metropolitan Water Board, 1993	
Philadelphia DW	<1982	1	0.6			0.6		0.6	4	WHO, 1982	in ECPI
US Drinking water	80-82							0.17	4	Craun, 1984	
Raw DW, 30 public wells, NY	N/A	1	0.5				ND	170	4	Kim and Stone, 1980	in Kohlie et al., 1989
Chicago DW	<1982	1	1						4	WHO, 1982	in ECPI
New York State (DW)	1979							170	4	in Wams, 1987	in 92% of samples
California, south - 4 water filtration plants	2001-02	15	0.34		<1.76		<1.76	2.68	1	Loraine and Pettigrove, 2006	Det. in 2 of 15 samples
USA - finished drinking water - 19 plants	2006-2007	19	0.06				<0.12	<0.12	2	Benotti et al., 2009	
USA - tap water - 19 plants	2006-2007	19	0.06				<0.12	<0.12	2	Benotti et al., 2009	
		57	**0.17**				**<0.12**	**170**			
Philadelphia DW	N/A						0.06	5	3	Keith et al, 1976: Sheldon and Hites, 1979	
Europe											
Croatia - bottled mineral water; PET bottle	N/A	9	8.78				<0.04	50	4	Bosnir et al., 2007	No preservative; pH = 5.82
Czech Republic, Prague - tap water	N/A	2	0.45				0.24	0.66	1	Prokupkova et al., 2002	
Czech Republic, Prague - bottled mineral water	N/A	2	9.86				9.78	9.93	1	Prokupkova et al., 2002	Glass bottles, metal caps with PVC inserts
Czech Republic, Prague - bottled spring water	N/A	2	1.51				0.14	2.88	1	Prokupkova et al., 2002	PET bottles
Denmark, Roskilde - tapwater in NERI lab	1996	1	11			11			1	Vikelsoe et al., 1998	
Germany, Leipzig - drinking water	N/A	1	0.05			0.05			1	Luks-Betlej et al., 2001	Detection limit = 0.04 ug/L
Greece, Chania, Crete - Tap water	N/A	2	0.9				0.87	0.93	1	Psillakis and Kalogerakis, 2003	
Greece, Chania, Crete - Bottled mineral water	N/A	4	0.51				0.36	0.65	1	Psillakis and Kalogerakis, 2003	PET bottles with a push-pull closure
Greece, Mytilene - bottled waters	2004	43	0.24		<0.02		<0.02	6.8	4	Leivadara et al., 2008	Detected in 10 of 43 samples
Greece, Mytilene - tap water	2004	2	0.01		<0.02		<0.02	<0.02	4	Leivadara et al., 2008	
Italy - bottled water (glass)	N/A				<0.02		<0.02	0.02	4	Montuori et al., 2008	71 samples; 75th perc = <0.02 ug/L
Italy - bottled water (PET)	N/A				<0.02		<0.02	0.17	4	Montuori et al., 2008	71 samples; 75th perc = 0.02 ug/L
Italy - bottled water (glass and PET)	N/A	142	0.02						4	Montuori et al., 2008	
Netherlands-Drinking Water	N/A				1.7		0.4	3.5	4	van der Velde, et al (RIVM)	
NL Mineral water	1978						0.18	1.23	4	van Vliet et al, 1979	
Poland, Katowice - drinking water	N/A	1	0.06			0.06			1	Luks-Betlej et al., 2001	Detection limit = 0.04 ug/L
Portugal, Lisbon - tap water	N/A	1	0.06			0.06			1	Serodio and Nogueira, 2006	Detection limit = 0.04 ug/L
Portugal, Lisbon - bottled mineral water	N/A	1	0.17			0.17			1	Serodio and Nogueira, 2006	Detection limit = 0.04 ug/L
Spain, Catalonia - public water fountains	N/A	7	0.005		<0.002		<0.002	0.331	1	Casajuand and Lacorte, 2003	Detected in 1 of 7 samples
Spain - bottled water - PET bottles	N/A	4	0.100		0.105		<0.002	0.188	1	Casajuand and Lacorte, 2003	Tested after 10 weeks storage
Spain - bottled water - PE bottles	N/A	6	0.196		0.153		0.103	0.332	1	Casajuand and Lacorte, 2003	Tested after 10 weeks storage
Spain - bottled mineral water	N/A	1	0.052			<0.103			1	Polo et al., 2005	
Spain, south Catalonia - tap water	2002?	1	4.26			4.26			1	Brossa et al., 2003	
Spain - tap water	2001?	1	0.1			0.1			4	Brossa et al., 2002	
Sweden	1994-95						<0.01	2.2	4	Bergstedt et al., 1999 cited in Paxeus, 1999	39 samples
		233	**0.59**				**<0.002**	**50**			
Italy - bottled mineral water	N/A	5	2.37				0.37	9.87	3	Signorile et al., 2007	
Canada											
Alberta Drinking Water	84-98	921	1.779	3.667	1		<1	54	4	AENV, 1999, G. Halina	Database analysed by O'Connor
Water (Bottled)- DEHP detected in cap liner		6	0.0025		<0.005		<0.005	0.01	1	Page and Lacroix, 1995	4 ND, then 0.006 and 0.01
Water (Bottled)- no DEHP in cap liner	87-89	10	0.0025						1	Page and Lacroix, 1995	all ND
Municipalities, Quebec	1992	22	0.5						4	MENVIG, 1993	N=22, 11 Municipalities, raw drink water
Niagara/Lake Ontario Drink Water	1984							1	4	OME, 1984	
Ottawa, ON - bottled water (polycarbonate)	2007	1	0.223			0.223			1	Cao, 2008	Non-carbonated water
Halifax, NS - bottled water (glass)	2006	1	0.146			0.146			1	Cao, 2008	Carbonated water
Halifax, NS - bottled water (PETE)	2006	1	0.338			0.338			1	Cao, 2008	Carbonated water
Halifax, NS - bottled water (glass)	2006	1	0.237			0.237			1	Cao, 2008	Carbonated water
Halifax, NS - bottled water (glass)	2006	1	0.146			0.146			1	Cao, 2008	Carbonated water
Halifax, NS - bottled water (PETE)	2006	1	0.092			0.092			1	Cao, 2008	Non-carbonated water
Halifax, NS - bottled water (PETE)	2006	1	0.088			0.088			1	Cao, 2008	Non-carbonated water
Halifax, NS - bottled water (PETE)	2006	1	0.093			0.093			1	Cao, 2008	Non-carbonated water
Halifax, NS - bottled water (PETE)	2006	1	0.075			0.075			1	Cao, 2008	Non-carbonated water
Halifax, NS - bottled water (PETE)	2006	1	0.091			0.091			1	Cao, 2008	Non-carbonated water
Halifax, NS - bottled water (PETE)	2006	1	0.052			0.052			1	Cao, 2008	Non-carbonated water
		970	**1.7**				**<0.005**	**54**			
Quebec, Montreal - municipal distrib. system	N/A	1	4.6			4.6			3	Horn et al., 2004	
Alberta Drinking Water	87-95	2105					1	54	4	Alberta Env. Protection, 1996a	Some cont. in blanks - duplication in data
Alberta Drinking Water	<1990	632	2	3.8			1	54	4	Alberta Env. Protection, 1996a	Duplication in data
Alberta Drinking Water	>1990	682	0.79	3.8			1	37	4	Alberta Env. Protection, 1996a	Duplication in data
Surface Drinking Water	85-86	18	3					35	4	Spink, 1986	Alberta, Canada; Canadian data quoted for US
Japan/Asia											
China, Beijing - Haidian District - tap water	2006	1	0.06				<0.12	<0.12	4	Li et al., 2008	
Japan - Kakogawa Drinking Water	93-97	10	0.5				ND	ND	4	Ass Plasticizer Ind, Japan, 1998,97,96,95	LOD=1ug/l, all ND
Japan - Kakogawa tap water	1999-2007	10	0.2				0.2	<1	4	CERI, 2007	Det. in 1 of 10 samples
Japan - Osaka Drinking Water	93-97	10	0.5				ND	1	4	Ass Plasticizer Ind, Japan, 1998,97,96,95	LOD=1ug/l, 9 ND's
Japan - Osaka, Nishiyodogawa-ku tap water	1999-2007	10	0.2				<0.2	<1	4	CERI, 2007	Det. limit 0.2 and 1 ug/L
Japan - Tap-water	N/A	1	4			4			4	Takeuchi and Ishii, 1981	
Japan - Tokyo Drinking Water	93-97	10	0.5				ND	ND	4	Ass Plasticizer Ind, Japan, 1998,97,96,95	LOD=1ug/l,all ND
Japan - Tokyo purified water	1973?	5	1.8				1.2	3.1	2	Morita et al, 1974	5 water supplies
Japan - Tokyo raw water (for supplies)	1973?	5	2.7				1.7	4.7	2	Morita et al, 1974	5 water supplies
Japan - Tokyo tapwater	1973?	5	1.3				1.2	1.8	2	Morita et al, 1974	from 5 water supplies

Legend

Data, changes or comments added in 2009

Excluded from calculated summary

Indicates average based on detection limit

BOLD **Calculated category summary**

Data Quality

1 - Reliable without restrictions
2 - Reliable with restrictions
3 - Not reliable
4 - Unassignable

Japan - Tokyo wellwater	1973?	5	0.5			ND	ND	2	Morita et al, 1974	
Japan - Yokohama Drinking Water	93-97	10	0.5			ND	1	4	Ass Plasticizer Ind, Japan, 1998,97,96,95	LOD=1ug/l, 9 ND's
Japan - Yokohama, Sakae-ku tap water	1999-2007	10	0.2			<0.2	<1	4	CERI, 2007	Det. limit 0.2 and 1 ug/L
Japan - Sumida-ku tap water	1999-2007	10	0.2			<0.2	<1	4	CERI, 2007	Det. limit 0.2 and 1 ug/L
Japan - Deionized water	N/A	1	8.4		8.4			4	Takeuchi and Ishii, 1981	
Japan - Distilled water	N/A	1	2.8		2.8			4	Takeuchi and Ishii, 1981	
Russia, Irkutsk - tap water	N/A	2	0.5					1	Baram et al., 2000	
Russia, Irkutskaya - mineral water	N/A	2	0.5					1	Baram et al., 2000	Glass bottle
Russia, Irkutskaya & Baikal - mineral water	N/A	2	0.15			<0.3		1	Baram et al., 2000	PET bottle
		110	**0.7**			**<0.12**	**8.4**			
Other										
Ground Drinking Water	85-86	1	2				to 9	4	Spink, 1986	included in AENV
Ground DW near HazWas	N/A	1524	130			ND	5800	4	Yang and Rauckman, 1987	
Waters	N/A					0.00006	0.6	4	Giam and Wong, 1987	
Fountain Water	95-96	1	14.3	1.1				4	Yin and Su, 1996	
Overall		**1370**	**1.4**			**<0.002**	**170**		**Total of all locations for drinking water; excluding other**	

BIS (2-EthylHexyl) Phthalate

Food

Concentration as ug/g

Type	Date	N	Average	SD	Median	Single Point	Range Low	Range High	Data Quality	Reference	Comments
BEVERAGES											
Bev- Fruit juice-citrus, canned	1986	1	0.025			<0.05			1	Page and Lacroix, 1995	
Bev- Fruit juice-citrus, frozen	1986	1	0.025			<0.05			1	Page and Lacroix, 1995	
Bev- Grape Juice (bottled)	1986	1	0.04			0.04			1	Page and Lacroix, 1995	
Bev- Veg Juice- Tomato	1986	1	0.045			ND			1	Page and Lacroix, 1995	MDL likely 0.09- 0.2 ug/g
Bev.-Fruit Drinks-Citrus	87-89	1	0.08			0.08			1	Page and Lacroix, 1995	DEHP detected in cap liner
Bev.-Fruit Drinks-Grapefruit	87-89	1	1.7			1.7			1	Page and Lacroix, 1995	DEHP detected in cap liner
Bev.-Fruit Drinks-Guava	87-89	1	0.12			0.12			1	Page and Lacroix, 1995	DEHP detected in cap liner
Bev.-Fruit Drinks-Maracuga	87-89	1	0.06			0.06			1	Page and Lacroix, 1995	DEHP detected in cap liner
Bev.-Fruit Drinks-Pineapple	87-89	1	0.16			0.16			1	Page and Lacroix, 1995	DEHP detected in cap liner
Bev.-Fruit Drinks-Raspberry	87-89	1	0.025			<0.05			1	Page and Lacroix, 1995	no DEHP in cap liner
Bev.-Fruit Juice-Apple	87-89	3	0.056				<0.05	0.06	1	Page and Lacroix, 1995	DEHP detected in cap liner
Bev.-Fruit Juice-Grape	87-89	3	0.139				0.06	0.26	1	Page and Lacroix, 1995	DEHP detected in cap liner
Bev.-Fruit Juice-Grapefruit	87-89	1	0.56			0.56			1	Page and Lacroix, 1995	DEHP detected in cap liner
Bev.-Fruit Juice-Mixed citrus	87-89	1	0.079			0.079			1	Page and Lacroix, 1995	DEHP detected in cap liner
Bev.-Fruit Juice-Orange	87-89	1	0.07			0.07			1	Page and Lacroix, 1995	DEHP detected in cap liner
Bev.-Fruit Juice-Papaya	87-89	1	0.076			0.076			1	Page and Lacroix, 1995	DEHP detected in cap liner
Bev.-Fruit Juice-Pineapple	87-89	2	0.104				0.097	0.11	1	Page and Lacroix, 1995	DEHP detected in cap liner
Bev.-Fruit Juice-Raspberry	87-89	1	0.025			<0.05			1	Page and Lacroix, 1995	DEHP detected in cap liner
Bev.-Veg Juice-Mixed Veg	87-89	2	0.064				0.053	0.074	1	Page and Lacroix, 1995	DEHP detected in cap liner
Bev.-Veg Juice-Tomato	87-89	1	0.25			0.25			1	Page and Lacroix, 1995	DEHP detected in cap liner
Bev.-Sodas- Orange	87-89	1	0.06			0.06			1	Page and Lacroix, 1995	DEHP detected in cap liner
Bev.-Sodas-Cola	87-89	3	0.037				0.01	0.05	1	Page and Lacroix, 1995	DEHP detected in cap liner
Bev.-Sodas-Cream soda	87-89	1	0.02			0.02			1	Page and Lacroix, 1995	DEHP detected in cap liner
Bev.-Sodas-Ginger ale	87-89	1	0.006			0.006			1	Page and Lacroix, 1995	DEHP detected in cap liner
Bev.-Sodas-Ginger beer	87-89	2	0.075				0.07	0.08	1	Page and Lacroix, 1995	DEHP detected in cap liner
Bev.-Sodas-Root beer	87-89	1	0.11			0.11			1	Page and Lacroix, 1995	DEHP detected in cap liner
Fruit juice - Switzerland	1991-96	1	0.040			0.040			4	Kuchen, et al. 1999	
Tea	1986	1	0.025			ND			1	Page and Lacroix, 1995	MDL likely 0.05 ug/g
Coffee- instant	1986	1	0.025			ND			1	Page and Lacroix, 1995	MDL likely 0.05 ug/g
Tea/coffee - Switzerland	1991-96	1	0.008			0.008			4	Kuchen, et al. 1999	
Soft drinks - Croatia; PET bottle	N/A	9	0.01711				<0.00004	0.136	4	Bosnir et al., 2007	Preserved with orthophosphoric acid; pH = 2.82
Soft drinks - Croatia; PET bottle	N/A	14	0.01593				<0.00004	0.08	4	Bosnir et al., 2007	Preserved with sodium benzoate; pH = 2.75
Soft drinks - Croatia; PET bottle	N/A	5	0.0366				0.018	0.06	4	Bosnir et al., 2007	Preserved with potassium sorbate; pH = 2.88
Soft drinks - Croatia; PET bottle	N/A	8	0.015				<0.00004	0.05	4	Bosnir et al., 2007	Preserved with sodium benzoate & potassium sorbate; pH = 2.82
Soft drinks	1986	1	0.025			<0.05			1	Page and Lacroix, 1995	
Beer	1986	1	0.025			ND			1	Page and Lacroix, 1995	MDL likely 0.05 ug/g
Beer- DEHP and BBP in cap liner	87-89	1	0.04			0.04			1	Page and Lacroix, 1995	
Beer- DEHP in cap liner	87-89	12	0.03				0.02	0.07	1	Page and Lacroix, 1995	
Beer-no DEHP in cap liner	87-89	3	0.05				0.03	0.09	1	Page and Lacroix, 1995	
Wine-red- DEHP in cap liner	87-89	5	0.016				0.01	0.03	1	Page and Lacroix, 1995	
Wine-red- no DEHP in liner	87-89	2	0.005				<0.01		1	Page and Lacroix, 1995	all ND; assume det. limit is 0.01 ug/g
Wine- white- DEHP in cap liner	87-89	6	0.013				<0.01	0.02	1	Page and Lacroix, 1995	
Wine- white- no DEHP in liner	87-89	3	0.005				<0.01		1	Page and Lacroix, 1995	all ND; assume det. limit is 0.01 ug/g
Wines	1986	1	0.025			ND			1	Page and Lacroix, 1995	MDL likely 0.05 ug/g
Wine - Italy, commercial, glass bottles, n =26	N/A				0.076		<0.042	0.242	1	Del Carlo et al., 2008	Det. Freq = 100%
Wine - Italy, commercial, polyethylene coupled film brick, n=10	N/A				0.078		0.025	0.276	1	Del Carlo et al., 2008	Det. Freq = 96%
Wine - Italy, private wine producers, glass bottles, n=18	N/A				0.057		<0.042	0.133	1	Del Carlo et al., 2008	Det. Freq = 72%
Wine - Italy, experimental pilot plant, glass bottles, n=8	N/A				0.057		<0.042	0.061	1	Del Carlo et al., 2008	Det. Freq = 100%
Wine -10 varieties; Spain	N/A	10	0.0028	0.00262	0.00316		<0.0002034	0.0074	2	Carillo et al., 2008	Det. in 6 of 10 wines; variety of containers/closures
Japanese beverages	1998	23	0.032	0.028				0.127	1	Yano et al. , 2002	incl. wine, beer, juice, bottled water
Sake - Japan	2000-2001				<0.004		<0.004	0.014	1	Tsumura et al., 2002	LOD=0.004; 5 samples
Wine - Japan	2000-2001	3	0.002		<0.004		<0.004	<0.004	1	Tsumura et al., 2002	LOD=0.004
Beer - Japan	2000-2001	3	0.010		<0.004		<0.004	0.027	1	Tsumura et al., 2002	LOD=0.004
Sports drink, green tea, beer, coffee, fruit mix - Japan	N/A						ND	ND	2	Kataoka et al., 2002	15 samples; detection limit not reported
Korean beverages	1998	23	0.018	0.22					1	Yano et al. , 2002	incl. wine, beer, juice, bottled water
		172	**0.044**				**<0.00004**	**1.7**			
CEREAL											
Cereal, cooked oatmeal	1986	1	0.05			ND			1	Page and Lacroix, 1995	MDL likely 0.01 - 0.2 ug/g
Cereal, cooked wheat	1986	1	0.05			ND			1	Page and Lacroix, 1995	MDL likely 0.01 - 0.2 ug/g
Cereal, corn	1986	1	0.82			0.82			1	Page and Lacroix, 1995	
Cereal, wheat and bran	1986	1	0.02			0.02			1	Page and Lacroix, 1995	
Cereals	N/A	1	1.7			1.7			2	MAFF Report #60, May 1995	Food Item measured
		5	**0.53**				**0.02**	**1.7**			
DAIRY (excl. milk)											
Cheese, American	N/A	12	0.821		0.7		0.444	2.437	4	CMA, 1986	
Cheese, cheddar	N/A	12	0.683		0.485		<MDL	1.835	4	CMA, 1986	
Cheese, cottage	N/A	12	0.081		0.059		<MDL	0.292	4	CMA, 1986	
Cheese	N/A								4	Giam and Wong, 1987	Early Study, no details
Cheese, cheddar	87-89	3	2.8				0.8	4.6	1	Page and Lacroix, 1995	35.0% to 39.2% fat
Cheese, cheddar	1986	1	2.2						1	Page and Lacroix, 1995	32.6% fat
Cheese, cottage	1986	1	0.07			0.07			1	Page and Lacroix, 1995	3% fat
Cheese, processed	1986	1	1.1			1.1			1	Page and Lacroix, 1995	17.7% fat
Cheeses assorted	87-89	14	2.2				<0.3	5.5	1	Page and Lacroix, 1995	17.7% fat to 38.4% fat
Cheeses assorted-UK	N/A	25	2.8		1.4		0.2	16.8	2	Sharman et al, 1994	most samples ranged 0.6 to 3.0
Cheese - Switzerland	1991-96	1	1.23			1.23			4	Kuchen, et al. 1999	
Cheese - Japan	2000-2001	3	0.42		0.35		0.33	0.57	1	Tsumura et al., 2002	LOD=0.029
Cheese, sliced - Japan	N/A	3	0.025				<0.050	<0.050	2	Kataoka et al., 2002	
Cream, Germany	N/A	6	0.22				0.18	0.32	4	Bruns-Weller and Pfordt, 2000	
Cream 35% fat, Norway	N/A	5	1.34		1.32		1.06	1.67	2	Sharman et al, 1994	Norway
Cream, Spain	N/A	2	0.52		0.52		0.48	0.55	2	Sharman et al, 1994	Spain, Fat % 31-33
Cream, UK	N/A	10	1.7		1.75		0.2	2.7	2	Sharman, et al, 1994	
Cream - Canada	1986	1	1.2			1.2			1	Page and Lacroix, 1995	17.1% fat
Cream - Switzerland	1991-96	1	0.25			0.25			4	Kuchen, et al. 1999	
Ice cream - Japan	2000-2001	3	0.24		0.17		0.17	0.39	1	Tsumura et al., 2002	LOD=0.049
Ice cream - Canada	1986	1	0.82			0.82			1	Page and Lacroix, 1995	16.0% fat

Legend

Data, changes or comments added in 2009

Excluded from calculated summary

Indicates average based on detection limit

BOLD **Calculated category summary**

Data Quality
1 - Reliable without restrictions
2 - Reliable with restrictions
3 - Not reliable
4 - Unassignable

Yogurt - Canada	1986	1	0.07			0.07			1	Page and Lacroix, 1995	8.6% fat
Yogurt - Switzerland	1991-96	1	0.040			0.040			4	Kuchen, et al. 1999	
		119	**1.4**				**0.04**	**16.8**			
Cheese-Canadian- butterfat basis	87-89	17	8						1	Page and Lacroix, 1995	butter fat basis
Dairy Products-Canada-butterfat basis	1986						1	7	1	Page and Lacroix, 1995	Lipid basis
Milk, various types, butterfat basis	87-89	8	4.1						1	Page and Lacroix, 1995	butterfat basis
EGGS											
Eggs-Japan	1977	1	0.182	0.125					1	Ishida, et al, 1981	
Eggs - UK	1993	2	0.6						2	MAFF Report #82, March, 1996	Prepared for consumption
Egg - Canada	1986	1	0.05			<0.1			1	Page and Lacroix, 1995	MDL for meat, fish and poulty is 0.1 ug/g
Egg-Japan	N/A	1	0.005			<0.01			4	Yano, 1979	
		5	**0.29**				**<0.01**	**0.6**		**Max. is a referenced average**	
FATS/OILS											
Butter Spread, UK	N/A	1	2.4			2.4			2	Sharman et al, 1994	UK
Butters, UK	N/A	10	4.3		3.35		2.5	7.4	2	Sharman et al, 1994	UK
Butter-Canada	N/A	12	5.6				2.3	11.9	1	Page and Lacroix, 1992	combined results DEHP in/not in wrapper, whole food basis
Butter-Canada- lipid basis, no DEHP in wrapper	N/A						3	7	1	Page and Lacroix, 1992	DEHP not in wrapper
Butter-Canada	1986	1	3.4			3.4			1	Page and Lacroix, 1995	
Butter - Switzerland	1991-96	1	1.20			1.20			4	Kuchen, et al. 1999	
Margarine - Canada	1986	1	1.24			1.24			1	Page and Lacroix, 1995	
Margarine, Soft, UK	N/A	1	2			2			2	Sharman et al, 1994	UK
Margarine-Canada	N/A	8	3.4				0.7	11.3	1	Page and Lacroix, 1992	Packaging also measured
Margarine, Sunflower, UK	N/A	1	1.2			1.2			2	Sharman et al, 1994	UK
Fats-core	N/A						1.5	11	2	MAFF Report #60, May 1995	
Fats-outer	N/A						2	6.1	2	MAFF Report #60, May 1995	
Cooking Fats and Salad Oils	1986	1	0.25			ND			1	Page and Lacroix, 1995	MDL likely 0.5 ug/g
Olive oil - Italy	N/A	2	4.1				3.5	4.6	4	Ezerskis et al., 2007	
Olive oil, extra virgin - Italy	N/A	6	0.85	0.52	0.59		0.439	1.66	2	Cavaliere et al., 2008	
Olive oil, refined and virgin - Italy	N/A	6	1.4	1.04	1.69		<0.168	2.66	2	Cavaliere et al., 2008	Detected in 5 of 6 samples
Olive oil + pomace oil - Italy	N/A	4	2.84	1.34	2.53		1.62	4.7	2	Cavaliere et al., 2008	
Rapeseed oil - Czech Republic; freshly pressed	N/A						1.95	8.00	4	Harazim et al., 2008	Details of analysis, blanks, etc. not available
Butter - Japan	2000-2001	3	1.82		1.61		1.02	2.83	1	Tsumura et al., 2002	LOD=0.19
Margarine - Japan	2000-2001	3	0.095				<0.19	<0.19	1	Tsumura et al., 2002	LOD=0.19
Fat spread - Japan	2000-2001	3	0.095				<0.19	<0.19	1	Tsumura et al., 2002	LOD=0.19
Vegetable oil - Japan	2000-2001				0.45		<0.053	1.75	1	Tsumura et al., 2002	LOD=0.053; 8 samples
Salad oil - Japan	N/A						ND	ND	2	Kataoka et al., 2002	3 samples; detection limit not provided
Margarine - Japan	N/A	3	9.480	1.320					2	Kataoka et al., 2002	3 samples; detection limit not provided
		67	**3.2**				**<0.053**	**11.9**			
Rapeseed oil - Czech Republic; following 21 d storage in plastic tank	N/A						21.51	59.33	4	Harazim et al., 2008	Details of analysis, blanks, etc. not available
Olive oil - UK	N/A	15					<0.140	0.180	3	Bradley et al., 2007	Exptl study, evaluated migration from non-stick cookware; heated for 30 to 90 min.
FISH											
Arctic Char - Austrian alps, Lake Schwarzsee ob Soelden (remote)	2002?	1	0.118			<0.235			4	Krautter and Seidl, 2002	wet weight
Fish-Fresh Japan	N/A	1	0.005			<0.01			4	Yano, 1979	
Fish-Japan	74-76	1	0.29						4	Kubota, 1979	detected in 28% of 332 samples
Fish - Japan	1974						0.01	19	4	Japan MOE, 2003	Wet wt.; detected in 92 of 332 samples; det. limit 0.02 to 1.0 ug/g
Fish - Japan	1996				<0.026		0.15	0.96	4	Japan MOE, 2003	Wet wt.; detected in 9 of 27 samples; det. limit 0.026 ug/g
Fish-Ocean Japan	N/A						0.01	0.4	4	Yano, 1979	
Fish - various species - Japan	1998	141	0.023		<0.025		<0.025	0.190	4	JEA, 1999	detected at 30 of 141 sites
Soil Arthropod-Finland	N/A	1	2.8			2.8			4	Persson, et al, 1978	
Fish	N/A	1	0.2			0.2			2	MAFF Report #60, May 1995	
Perch-muscle	N/A						ND	0.1	4	Persson, et al, 1978	
Pike-muscle	N/A					ND			4	Persson, et al, 1978	
Roach-muscle	N/A	1	1.1			1.1			4	Persson, et al, 1978	
Bream-muscle	N/A	1	0.5			0.5			4	Persson, et al, 1978	
Fish-Factory frozen Halibut Canada	87-89	1	0.2			0.2			1	Page and Lacroix, 1995	wet basis
Fish-Factory frozen Pollack Canada	87-89	1	2.1			2.1			1	Page and Lacroix, 1995	wet basis
Fish-Factory frozen Salmon Canada	87-89	2	2.1				0.3	3.9	1	Page and Lacroix, 1995	
Herring-Bay of Fundy	N/A							7.24	4	Burns et al, 1981	Wet Weight
Seal Blubber	N/A	1	10.6			10.6			4	Zitko, 1972	in Wams
Siskiwet Trout	N/A	1	0.05						4	Swain, 1978	early work, units?
Blue Crab Gills	N/A	1	0.02			0.02			1	Giam et al, 1975	
Blue Crab Muscle	N/A	1	0.003			0.003			1	Giam et al, 1975	
Brook Trout	N/A		ND						4	Stalling et al, 1973	in williams
Canned Fish	1986	1	0.1	0.0507			0.04	0.16	1	Page and Lacroix, 1995	
Canned Salmon	N/A						0.063	0.089	4	Williams, 1973	
Canned Tuna	N/A						0.04	0.16	4	Williams, 1973	
Croaker Muscle	N/A	1	0.003			0.003			1	Giam et al, 1975	
Eel	N/A	1	0.104			0.104			4	Williams, 1973	
Eel whole	N/A	1	0.002			0.002			1	Giam et al, 1975	
Fish	N/A	1	0.26						4	Giam and Wong, 1987	
Fish- Factory frozen Arctic Char	87-89	1	0.05			<0.1			1	Page and Lacroix, 1995	
Fish Muscle	N/A						0.00005	0.0005	4	Giam and Wong, 1987	
Fish, muscle - Netherlands	1999				0.072		<0.0022	1.5	1	Vethaak, et al. 2002	Detected in 15 of 16 samples
Fish, FW	1986	1	0.1			0.1			1	Page and Lacroix, 1995	
Fish/seafood-Industrial areas	N/A						0.002	32	4	ATSDR, 1995	
Hairtail fish	95-96	1	1.8	0.4					4	Yin and Su, 1996	
Hatchery Atlantic Salmon	N/A						0.013	0.164	4	in Wams, 1987	
Fish - Korea - nationwide survey; 31 samples	N/A						ND	0.574	4	Choi et al., 2001	Wet wt.; Detected in 14.5% samples
False Creek harbour, B.C., Canada - Green Algae	1999	9	0.0235						1	Mackintosh, et al. 2004	Wet wt; ave lipid content = 0.2%
False Creek harbour, B.C. ,Canada - Brown Algae	1999	9	0.00084						1	Mackintosh, et al. 2004	Wet wt; ave lipid content = 0.08%
False Creek harbour, B.C. ,Canada - Plankton	1999	9	0.0149						1	Mackintosh, et al. 2004	Wet wt; ave lipid content = 0.09%
False Creek harbour, B.C. ,Canada -Blue Mussels	1999	9	0.0184						1	Mackintosh, et al. 2004	Wet wt; ave lipid content = 1.3%
False Creek harbour, B.C. ,Canada-Pacific Oysters	1999	9	0.0649						1	Mackintosh, et al. 2004	Wet wt; ave lipid content = 2.1%
False Creek harbour, B.C. ,Canada -Geoduck Clams	1999	9	0.0462						1	Mackintosh, et al. 2004	Wet wt; ave lipid content = 0.7%
False Creek harbour, B.C. ,Canada -Manila Clams	1999	9	0.0138						1	Mackintosh, et al. 2004	Wet wt; ave lipid content = 1.2%
False Creek harbour, B.C. ,Canada -Dungeness Crabs	1999	9	0.011						1	Mackintosh, et al. 2004	Wet wt; ave lipid content = 8%
False Creek harbour, B.C. ,Canada -Purple Seastar	1999	9	0.0020						1	Mackintosh, et al. 2004	Wet wt; ave lipid content = 2.5%
False Creek harbour, B.C. ,Canada -Juvenile Shiner Perch	1999	9	0.0115						1	Mackintosh, et al. 2004	Wet wt; ave lipid content = 2.1%
False Creek harbour, B.C. ,Canada -Pacific Herring	1999	9	0.0080						1	Mackintosh, et al. 2004	Wet wt; ave lipid content = 3.2%

False Creek harbour, B.C. ,Canada -Pile Perch	1999	9	0.0068					1	Mackintosh, et al. 2004	Wet wt; ave lipid content = 0.7%
False Creek harbour, B.C. ,Canada -Striped Seaperch	1999	9	0.0022					1	Mackintosh, et al. 2004	Wet wt; ave lipid content = 0.17%
False Creek harbour, B.C. ,Canada -Pacific Staghorn Sculpin	1999	9	0.0117					1	Mackintosh, et al. 2004	Wet wt; ave lipid content = 0.3%
False Creek harbour, B.C. ,Canada -English Sole	1999	9	0.0023					1	Mackintosh, et al. 2004	Wet wt; ave lipid content = 0.5%
False Creek harbour, B.C. ,Canada -Whitespotted Greenling	1999	9	0.0083					1	Mackintosh, et al. 2004	Wet wt; ave lipid content = 0.6%
False Creek harbour, B.C. ,Canada -Spiny Dogfish- muscle	1999	9	0.011					1	Mackintosh, et al. 2004	Wet wt; ave lipid content = 8.3%
False Creek harbour, B.C. ,Canada -Spiny Dogfish- liver	1999	9	0.071					1	Mackintosh, et al. 2004	Wet wt; ave lipid content = 62%
False Creek harbour, B.C. ,Canada -Spiny Dogfish- embryo	1999	9	0.010					1	Mackintosh, et al. 2004	Wet wt; ave lipid content = 17%
False Creek harbour, B.C. ,Canada -Surf Scoters	1999	9	0.0049					1	Mackintosh, et al. 2004	Wet wt; ave lipid content = 2.2%
Milkfish	95-96	1	1.3	0.1				4	Yin and Su, 1996	
Mussels, whole body - Netherlands	1999				0.082		<0.0022	0.4	1	Vethaak, et al. 2002	Detected in 10 of 17 samples; median calc. using detected values only
Oysters- Lake Pontchartrain, Inner Harbor Navigation Canal	1980	8	0.21						4	McFall et al., 1985a	Wet wt., mg/kg
Prawn-jumbo	95-96	1	1.3	0.2					4	Yin and Su, 1996	
Seal Pup	N/A	1	0.011			0.011			4	in Wams, 1987	
Shark Muscle	N/A	1	0.002			0.002			1	Giam et al, 1975	
Shellfish	1986	1	0.05			<0.1			1	Page and Lacroix, 1995	
Shrimp Whole	N/A	1	0.008			0.008			1	Giam et al, 1975	
Spade Fish Liver	N/A	1	0.004			0.004			1	Giam et al, 1975	
Spade Fish Muscle	N/A						0.002	0.02	4	Giam and Wong, 1987	
Sting Ray Muscle	N/A	1	0.012			0.012			1	Giam et al, 1975	
Trout Muscle	N/A						0.004	0.009	1	Giam et al, 1975	
Yellow Perch	N/A		ND						4	Stalling et al, 1973	in williams
Clams, Lake Pontchartrain, Chef Menteur & Rigolets passes	1980	1	0.22				0.2	0.24	4	McFall et al., 1985a	Wet wt., mg/kg
Fish - Switzerland	1991-96	1	0.110			0.110			4	Kuchen, et al. 1999	
Bream - NL; 0.1% fat	1998	1	0.0002			<0.0004			1	David and Sandra, 2001	Wet wt; Ave = 1/2 DL
Roach - NL; 0.5% fat	1998	1	0.0126			0.0126			1	David and Sandra, 2001	Wet wt
Bream - NL; 0.2% fat	1998	1	0.0002			<0.0004			1	David and Sandra, 2001	Wet wt; Ave = 1/2 DL
Bream - NL; 1.6% fat	1998	1	0.0002			<0.0004			1	David and Sandra, 2001	Wet wt; Ave = 1/2 DL
Roach - NL; 0.8% fat	1998	1	0.0002			<0.0004			1	David and Sandra, 2001	Wet wt; Ave = 1/2 DL
Bream - NL; 0.1% fat	1998	1	0.0002			0.0002			1	David and Sandra, 2001	Wet wt; Ave = 1/2 DL
Roach - NL; 0.2% fat	1998	1	0.004			0.004			1	David and Sandra, 2001	Wet wt
Bream - NL; 0.2% fat	1998	1	0.0002			<0.0004			1	David and Sandra, 2001	Wet wt; Ave = 1/2 DL
Roach - NL; 0.7% fat	1998	1	0.0379			0.0379			1	David and Sandra, 2001	Wet wt
Bream - NL; 0.5% fat	1998	1	0.0002			<0.0004			1	David and Sandra, 2001	Wet wt; Ave = 1/2 DL
Bream - NL; 0.2% fat	1998	1	0.007			0.007			1	David and Sandra, 2001	Wet wt
Bream - NL; 0.4% fat	1998	1	0.0018			0.0018			1	David and Sandra, 2001	Wet wt
Roach - NL; 1.0% fat	1998	1	0.0034			0.0034			1	David and Sandra, 2001	Wet wt
White bream - NL; 0.8% fat	1998	1	0.0021			0.0021			1	David and Sandra, 2001	Wet wt
Roach - NL; 0.6% fat	1998	1	0.0002			<0.0004			1	David and Sandra, 2001	Wet wt; Ave = 1/2 DL
Bream - NL; 0.4% fat	1998	1	0.0002			<0.0004			1	David and Sandra, 2001	Wet wt; Ave = 1/2 DL
Bream - NL; 0.5% fat	1998	1	0.0002			<0.0004			1	David and Sandra, 2001	Wet wt; Ave = 1/2 DL
Bream - NL; 1.4% fat	1998	1	0.0165			0.0165			1	David and Sandra, 2001	Wet wt
Bream - NL; 0.2% fat	1998	1	0.0067			0.0067			1	David and Sandra, 2001	Wet wt
Roach - NL; 1.6% fat	1998	1	0.0478			0.0478			1	David and Sandra, 2001	Wet wt
Roach - NL; 1.7% fat	1998	1	0.0414			0.0414			1	David and Sandra, 2001	Wet wt
Roach - NL; 0.3% fat	1998	1	0.0183			0.0183			1	David and Sandra, 2001	Wet wt
Bream - NL; 5.1% fat	1998	1	0.117			0.117			1	David and Sandra, 2001	Wet wt
Roach - NL; 2.6% fat	1998	1	0.1515			0.1515			1	David and Sandra, 2001	Wet wt
Roach - NL; 2.6% fat	1998	1	0.147			0.147			1	David and Sandra, 2001	Wet wt
Roach - NL; 0.77% fat	2000	1	0.3156			0.3156			1	David and Sandra, 2001	Wet wt
Roach - NL; 0.98% fat	2000	1	0.334			0.334			1	David and Sandra, 2001	Wet wt
Roach - NL; 1.58% fat	2000	1	0.3366			0.3366			1	David and Sandra, 2001	Wet wt
Molluscs - NL	2000	3	0.334		0.194		0.185	0.624	1	David and Sandra, 2001	Wet wt
Invertebrates - NL	2000	3	1.42		1.492		1.221	1.546	1	David and Sandra, 2001	Wet wt
Fish paste (fried kamaboko) -Japan, Osaka	2000	2	24.5				14.9	34.1	1	Tsumura et al., 2001b	Prepared for consumption
Mackerel -Japan, Osaka	2000	2	6.9				3.0	10.8	1	Tsumura et al., 2001b	Prepared for consumption
Fish cake, fish sausage - Japan	N/A	6	0.025				<0.050	<0.050	2	Kataoka et al., 2002	
		406	**0.26**				**0.00005**	**34.1**			

FRUITS

Fruit Products	N/A	1	0.07			0.07			4	Environment Canada and Health Canada, 1994	
Apple	1986	1	0.02			ND			1	Page and Lacroix, 1995	MDL likely 0.04 - 0.2 ug/g
Banana	1986	1	0.02			ND			1	Page and Lacroix, 1995	MDL likely 0.04 - 0.2 ug/g
Blueberry	1986	1	0.02			ND			1	Page and Lacroix, 1995	MDL likely 0.04 - 0.2 ug/g
Canned Citrus Fruit	1986	1	0.05			0.05			1	Page and Lacroix, 1995	
Cherry, fresh, canned	1986	1	0.02			ND			1	Page and Lacroix, 1995	MDL likely 0.04 - 0.2 ug/g
Citrus fruit, fresh	1986	1	0.02			ND			1	Page and Lacroix, 1995	MDL likely 0.04 - 0.2 ug/g
Dried Fruits	N/A	1	0.01			<0.02			2	MAFF Report #60, May 1995	
Grape	1986	1	0.02			ND			1	Page and Lacroix, 1995	MDL likely 0.04 - 0.2 ug/g
Peaches, fresh, canned	1986	1	0.02			ND			1	Page and Lacroix, 1995	MDL likely 0.04 - 0.2 ug/g
Pear, fresh, canned	1986	1	0.02			ND			1	Page and Lacroix, 1995	MDL likely 0.04 - 0.2 ug/g
Pineapple	1986	1	0.02			ND			1	Page and Lacroix, 1995	MDL likely 0.04 - 0.2 ug/g
Plums/Prunes	1986	1	0.07			0.07			1	Page and Lacroix, 1995	
Melon	1986	1	0.02			ND			1	Page and Lacroix, 1995	MDL likely 0.04 - 0.2 ug/g
Strawberry	1986	1	0.02			ND			1	Page and Lacroix, 1995	MDL likely 0.04 - 0.2 ug/g
Fruit-Japan	N/A						0.03	0.11	4	Yano, 1979	
Fruit - with core (apple, pears, etc.) - Switzerland	1991-96	1	0.057			0.057			4	Kuchen, et al. 1999	
Fruit - soft (grapes, etc.) - Switzerland	1991-96	1	0.120			0.120			4	Kuchen, et al. 1999	
Fruit - citrus and tropical - Switzerland	1991-96	1	0.030			0.030			4	Kuchen, et al. 1999	
		18	**0.035**				**<0.02**	**0.12**			

GRAIN

Flour	N/A	1	0.8			0.8			2	MAFF Report #60, May 1995	
Pasta	N/A	1	0.1			0.1			2	MAFF Report #60, May 1995	
Bread, White	1986	1	0.68			0.68			1	Page and Lacroix, 1995	
Bread, Whole Wheat	1986	1	1.5			1.5			1	Page and Lacroix, 1995	
Bread - Switzerland	1991-96	1	0.070			0.070			4	Kuchen, et al. 1999	
Flour, wheat	1986	1	0.05			ND			1	Page and Lacroix, 1995	MDL likely 0.01 - 0.2 ug/g
Muffins	1986	1	1			1			1	Page and Lacroix, 1995	
Pancakes	1986	1	0.12			0.12			1	Page and Lacroix, 1995	
Pasta	1986	1	0.14			0.14			1	Page and Lacroix, 1995	

Pasta, dry	1986	1	0.05			ND			1	Page and Lacroix, 1995	MDL likely 0.01 - 0.2 ug/g
Rice	1986	1	0.06			0.06			1	Page and Lacroix, 1995	
Rice, pasta - Switzerland	1991-96	1	0.070			0.070			4	Kuchen, et al. 1999	
Rolls/biscuits	1986	1	1.1			1.1			1	Page and Lacroix, 1995	
Dry noodles - Japan	2000-2001	3	0.18		0.092		<0.029	0.42	1	Tsumura et al., 2002	LOD=0.029
Rice -Japan, Osaka	2000	2	4.6				0.17	8.99	1	Tsumura et al., 2001b	Prepared for consumption
Fried noodle -Japan, Osaka	2000	2	7.3				0.28	14.3	1	Tsumura et al., 2001b	Prepared for consumption
Spaghetti -Japan, Osaka	2000	2	15.5				1.74	29.3	1	Tsumura et al., 2001b	Prepared for consumption
Rice - Japan	N/A	3	0.050				<0.050	trace	2	Kataoka et al., 2002	
Rice + wrap film - Japan	N/A	3	4.140	0.160					2	Kataoka et al., 2002	
		28	**2.6**				**<0.029**	**29.3**			
Flour	N/A	1	284			284			4	Giam and Wong, 1987	Early Study, no details
Noodles (ground)	N/A	1	160			160			4	Giam and Wong, 1987	Early Study, no details
Noodles (unground)	N/A	1	5			5			4	Giam and Wong, 1987	Early Study, no details
Rape Seeds	N/A	1	40			40			2	Thuren, 1989	
Dried Barley Grain-Pig Slurry	1989	1	0.089			0.089			3	Kirchmann and Tengsved, 1991	
Dried Barley Grain-Sewage sludge	1989	1	0.53			0.53			3	Kirchmann and Tengsved, 1991	
Dried Barley Grain-Fertilizer	1989	1	0.11			0.11			3	Kirchmann and Tengsved, 1991	
MEAT											
Beef, ground	N/A	12	0.436		0.534		0.125	0.65	4	CMA, 1986	
Beef - Canada	87-89	1	0.7			0.7			1	Page and Lacroix, 1995	
Beef liver, packaged frozen - Canada	87-89	1	0.05			<0.1			1	Page and Lacroix, 1995	
Beef, ground - Canada	1986	1	0.1			0.1			1	Page and Lacroix, 1995	
Beef, ground patty, packaged frozen - Canada	87-89	1	0.05			<0.1			1	Page and Lacroix, 1995	
Beef, steak - Canada	1986	1	0.05			<0.1			1	Page and Lacroix, 1995	
Beef-Japan	N/A	1	0.005			<0.01			4	Yano, 1979	
Beef - Switzerland	1991-96	1	0.30			0.30			4	Kuchen, et al. 1999	
Carcass Meat - UK	1993	2	0.7						2	MAFF Report #82, March, 1996	Prepared for consumption
Duck	95-96	1	0.5						4	Yin and Su, 1996	
Lamb chop, packaged frozen - Canada	87-89	1	0.05			<0.1			1	Page and Lacroix, 1995	
Lamb leg, packaged frozen - Canada	87-89	1	0.05			<0.1			1	Page and Lacroix, 1995	
Meat	N/A	1	0.28						4	Giam and Wong, 1987	
Meat - UK	N/A	1	0.8			0.8			4	MAFF Report #60, May 1995	
Meat balls - Japan	N/A						ND	ND	2	Kataoka et al., 2002	3 samples; detection limit not provided
Pork-Japan	N/A						0.05	0.11	4	Yano, 1979	
Pork	95-96	1	1.3	0.2					4	Yin and Su, 1996	
Pork, fresh - Canada	1986	1	0.05			<0.1			1	Page and Lacroix, 1995	
Pork, roast, packaged frozen - Canada	87-89	1	0.05			<0.1			1	Page and Lacroix, 1995	
Pork - Switzerland	1991-96	1	0.16			0.16			4	Kuchen, et al. 1999	
Veal cutlets - Canada	1986	1	0.05			<0.1			1	Page and Lacroix, 1995	
Veal - Switzerland	1991-96	1	0.38			0.38			4	Kuchen, et al. 1999	
		32	**0.36**				**<0.01**	**0.8**			
MILK											
Evaporated Milk, canned - Canada; 7.6% fat	1986	1	0.13			0.13			1	Page and Lacroix, 1995	
Milk - Canada; 2%	1986	1	0.04			0.04			1	Page and Lacroix, 1995	
Milk - Canada, Skim	1986	1	0.01			0.01			1	Page and Lacroix, 1995	DEHP present in packaging
Milk - Canada, Whole, 3.3% fat	1986	1	0.1			0.1			1	Page and Lacroix, 1995	
Milk - Canada ; collected at farm - hand milked	N/A	6	0.016				0.0084	0.02372	1	Feng et al., 2005	Ave. fat = 3.56 %
Milk - Canada; collected at farm - machine milked	N/A	6	0.215				0.11167	0.2829	1	Feng et al., 2005	DEHP present in the PVC tubing; Ave. fat = 4.02%
Milk - Denmark	N/A	1	0.025						1	Petersen, 1991	
Milk - Germany (hand)	N/A	1	0.13			0.13			1	Gruber, et al, 1998	
Milk - Germany (Machine)	N/A	1	0.12			0.12			1	Gruber, et al, 1998	
Milk - Germany (truck)	N/A	3	0.02				0.02	0.02	4	Bruns-Weller and Pfordt, 2000	
Milk - Germany (farm)	N/A	3	0.12				0.1	0.15	4	Bruns-Weller and Pfordt, 2000	
Milk - Germany (3.5% fat)	N/A	4	0.03				0.01	0.04	4	Bruns-Weller and Pfordt, 2000	
Milk - Germany (1.5% fat)	N/A	1	0.005			<0.01			4	Bruns-Weller and Pfordt, 2000	Ave = 1/2 DL
Milk - Japan	2000-2001	3	0.076		0.064		0.063	0.10	1	Tsumura et al., 2002	LOD=0.025
Milk - Netherlands; direct from cows	1998	29	0.029		0.027		0.009	0.070	1	David and Sandra, 2001	Collected from 2 farms in spring; % fat = 1.1 to 9.7
Milk - Netherlands; direct from cows	2000	3	0.039		0.036		0.026	0.054	1	David and Sandra, 2001	Collected from 2 farms in autumn; % fat = 1.8 to 2.0
Milk - Norway, Past/Skim/Carton	N/A						0.02	0.025	1	Castle, et al, 1990	
Milk - Norway; < 1% fat,	N/A	5	0.03		0.03		0.02	0.04	2	Sharman et al, 1994	
Milk - Norway; 1% fat	N/A	4	0.16		0.05		0.05	0.48	2	Sharman et al, 1994	0.48 sample may have been contaminated, other 3 samples were all 0.05
Milk - Norway; 3% fat	N/A	9	0.14		0.11		0.06	0.38	2	Sharman et al, 1994	
Milk - South Korea; raw bovine milk	N/A	30	0.057				<0.002	0.154	1	Kim et al., 2009	Detected in 50% of samples
Milk - Spain; fresh, 0.1 - 3% fat	N/A	5	0.03		0.02		<0.01	0.05	2	Sharman et al, 1994	Spain , Fat% 0.1 - 3
Milk - Spain, Homogenized	N/A	1	0.01			0.01			2	Sharman et al, 1994	Spain, Fat % 0.6
Milk - Spain, UHT	N/A	1	0.02		0.01		<0.01	0.03	2	Sharman et al, 1994	Spain, Fat % <0.1-2.5
Milk - Spain - whole, UHT in Tetra Brik	2003	2	0.0151	0.0034					1	Casajuana and Lacorte, 2004	3% fat
Milk - Spain - whole, UHT in Tetra Brik	2003	2	0.0247	0.0006					1	Casajuana and Lacorte, 2004	3% fat
Milk - Spain - whole, HDPE bottles	2003	2	0.0232	0.0041					1	Casajuana and Lacorte, 2004	3% fat
Milk - Spain - whole, HDPE bottles	2003	2	0.0272	0.0094					1	Casajuana and Lacorte, 2004	3% fat
Milk - Switzerland	1991-96	1	0.015			0.015			4	Kuchen, et al. 1999	
Milk - UK, Past/Whole/carton	N/A	1	0.035			0.035			1	Castle, et al, 1990	
Milk - UK	N/A						<0.01	0.09	2	Sharman et al, 1994	UK, N=16 composite samples
Milk - UK	1993	2	0.3						2	MAFF Report #82, March, 1996	
Milk Collecting Tank	N/A						0.055	0.08	1	Castle, et al, 1990	
Milk Collecting Tank-Alfa	N/A						0.05	0.055	1	Castle, et al, 1990	
Milk-Central Chamber	N/A						0.01	0.055	1	Castle, et al, 1990	
Milk-Hand Milked	N/A						<0.005	0.01	1	Castle, et al, 1990	
Milk-Old Tubing	N/A						0.04	0.125	1	Castle, et al, 1990	
Past cream-Homog/Past/carton							1.2	1.4	1	Castle, et al, 1990	
Milk-New Tubing	N/A						0.05	0.095	1	Castle, et al, 1990	
Milk	N/A	36	0.12		0.094		0.013	0.651	4	CMA, 1986	
		168	**0.076**				**<0.002**	**1.4**			
Milk Collecting Tank-Erland	N/A	2	30						1	Castle, et al, 1990	
NUTS/BEANS											
Bean	1986	1	0.045			ND			1	Page and Lacroix, 1995	MDL likely 0.09- 0.2 ug/g
Peanut butter, peanut	1986	1	0.045			ND			1	Page and Lacroix, 1995	
Baked bean	1986	1	0.045			ND			1	Page and Lacroix, 1995	

Nuts	N/A	3	0.37			0.08	0.8	4	Bruns-Weller and Pfordt, 2000	
		6	**0.21**			**<0.08**	**0.8**			
OTHER FOODS										
Bakery Products/snacks	N/A					0.4	25	2	MAFF Report #60, May 1995	5 food Items measured
Chocolate bars	N/A					0.06	2.4	4	Castle et al, 1989	36 samples
Gravy and Parmesan Cheese	N/A					0.3	2.2	2	MAFF Report #60, May 1995	5 food Items measured
Ice Lollipop	N/A	1	1.1		1.1			2	MAFF Report #60, May 1995	
Snack Products	N/A					<0.01	1.8	4	Castle, et al, 1989	11 samples
Sugar	N/A	1	1.8		1.8			2	MAFF Report #60, May 1995	
Cakes	1986	1	0.1		ND			1	Page and Lacroix, 1995	MDL likely 0.01 - 0.2 ug/g
Candy- other than chocolate bars	1986	1	0.05		ND			1	Page and Lacroix, 1995	MDL likely 0.01 - 0.2 ug/g
Chocolate Bars	1986	1	0.51		0.51			1	Page and Lacroix, 1995	
Cookies	1986	1	1.5		1.5			1	Page and Lacroix, 1995	
Crackers	1986	1	0.1		ND			1	Page and Lacroix, 1995	MDL likely 0.01 - 0.2 ug/g
Danish/Donuts	1986	1	3.4		3.4			1	Page and Lacroix, 1995	
Gelatin dessert	1986	1	0.025		ND			1	Page and Lacroix, 1995	MDL likely 0.05 ug/g
Honey	1986	1	0.005		ND			1	Page and Lacroix, 1995	MDL likely 0.01 ug/g
Jam	1986	1	0.005		ND			1	Page and Lacroix, 1995	MDL likely 0.01 ug/g
Jams	87-89	16	0.2			<0.05	1.2	1	Page and Lacroix, 1995	DEHP detected in lid liner; detection limit assumed to be 0.05 ug/g
Jellies	87-89	16	0.17			<0.05	0.61	1	Page and Lacroix, 1995	DEHP detected in lid liner; detection limit assumed to be 0.05 ug/g
Pepper	1986	1	0.045		ND			1	Page and Lacroix, 1995	MDL likely 0.09- 0.2 ug/g
Pie, apple	1986	1	0.08		0.08			1	Page and Lacroix, 1995	
Pie, blueberry	1986	1	1		1			1	Page and Lacroix, 1995	
Pizza	1986	1	1.2		1.2			1	Page and Lacroix, 1995	
Potato chips	1986	1	0.045		ND			1	Page and Lacroix, 1995	MDL likely 0.09- 0.2 ug/g
Pudding (instant)	1986	1	0.05		ND			1	Page and Lacroix, 1995	MDL likely 0.09- 0.2 ug/g
Soup- onion	1986	1	0.05		ND			1	Page and Lacroix, 1995	MDL likely 0.1 ug/g
Soup- pea	1986	1	0.05		ND			1	Page and Lacroix, 1995	MDL likely 0.1 ug/g
Soup- tomato	1986	1	0.05		ND			1	Page and Lacroix, 1995	MDL likely 0.1 ug/g
Soup, Canned Meat	1986	1	0.1		0.1			1	Page and Lacroix, 1995	
Sugar, white	1986	1	0.005		ND			1	Page and Lacroix, 1995	MDL likely 0.01 ug/g
Syrup (bottled)	1986	1	0.005		ND			1	Page and Lacroix, 1995	MDL likely 0.01 ug/g
Syrup, maple	N/A	8	0.007	<0.01		<0.01	0.02	1	Page and Lacroix, 1995	Detected in 1 of 8 samples
Tomato sauce & ketchup	1986	1	0.045		ND			1	Page and Lacroix, 1995	MDL likely 0.09- 0.2 ug/g
Tomato sauce - Italy	N/A	1	0.25			<0.5		4	Ezerskis et al., 2007	
Pesto sauce - Italy	N/A	4	5.7			2.5	8.7	4	Ezerskis et al., 2007	
Confectionary Products-UK	N/A					0.3	2.4	4	Castle, et al, 1989	
Confectionery	N/A					0.1	6.7	2	MAFF Report #60, May 1995	7 food Items measured
Cookies - Japan	2000-2001					0.10	0.68	1	Tsumura et al., 2002	LOD=0.029; 3 samples
Chocolate - Japan	2000-2001	3	0.12	0.080		0.077	0.21	1	Tsumura et al., 2002	LOD=0.029; 3 samples
Solty pastry - Japan	2000-2001	3	0.083	0.071		0.029	0.15	1	Tsumura et al., 2002	LOD=0.029; 3 samples
Hamburger set - Japan	2000-2001	3	0.019	<0.019		<0.019	0.04	1	Tsumura et al., 2002	LOD=0.019; 3 samples
Gyu-don (boiled rice with spiced beef & onion) - Japan	2000-2001	3	0.019	<0.037		<0.037	<0.037	1	Tsumura et al., 2002	LOD=0.037; 3 samples
Pizza - Japan	2000-2001	3	0.24	0.23		0.096	0.40	1	Tsumura et al., 2002	LOD=0.037; 3 samples
Retort-pouched food - Japan	2000-2001			0.067		<0.019	0.44	1	Tsumura et al., 2002	LOD=0.019; 11 samples
Noodle soup, pickles, fruit jelly, potato chip - Japan	N/A					ND	ND	2	Kataoka et al., 2002	12 samples; detection limit not provided
Convenience lunch - Japan	N/A	3	0.025			<0.050	<0.050	2	Kataoka et al., 2002	
Curry paste, packaged - Thailand	N/A					0.12	0.61	1	Kueseng et al., 2007	5 brands tested
		87	**0.48**			**<0.01**	**25**			
Biscuits	N/A	1	109		109			4	Giam and Wong, 1987	Early Study, no details
Olives, mussles, tuna in oil	N/A	5	205	205 140		20	430	3	Fankhauser-Noti and Grob, 2006	Migration from gasket of lid into food
POULTRY										
Poultry	1986	1	2.6		2.6			1	Page and Lacroix, 1995	
Poultry	1993	2	0.7					2	MAFF Report #82, March, 1996	Prepared for consumption
Poultry - Switzerland	1991-96	1	0.57		0.57			4	Kuchen, et al. 1999	
Chicken	N/A						1.8	4	Ishida, et al, 1981	
Chicken	95-96	1	1.1	0.1				4	Yin and Su, 1996	
Chicken, whole packaged frozen	87-89	1	0.05		<0.1			1	Page and Lacroix, 1995	
Processed Food-Japan	N/A					0.05	0.22	4	Yano, 1979	
Chicken (fried) -Japan, Osaka	2000	2	15			13.1	16.9	1	Tsumura et al., 2001b	Prepared for consumption
		8	**4.5**			**0.05**	**16.9**			
PROCESSED MEAT										
Sausage	N/A		<MDL	<MDL		<MDL	0.52	4	CMA, 1986	blank > most samples
Bologna	87-89	1	0.4		0.4			1	Page and Lacroix, 1995	
Cold Cuts/Luncheon Meats	1986	1	0.2		0.2			1	Page and Lacroix, 1995	
Corned beef - Japan	N/A	3	2.050	0.130				2	Kataoka et al., 2002	
Ham, cooked	87-89	2	1.95			0.2	3.7	1	Page and Lacroix, 1995	
Luncheon meat, canned	1986	1	0.2		0.2			1	Page and Lacroix, 1995	
Meat loaf	87-89	1	2.5		2.5			1	Page and Lacroix, 1995	
Meat products - Switzerland	1991-96	1	0.48		0.48			4	Kuchen, et al. 1999	
Minced meat (Shumai) -Japan, Osaka	2000	2	10			4.06	16	1	Tsumura et al., 2001b	Prepared for consumption
Pork, cured	1986	1	0.5		0.5			1	Page and Lacroix, 1995	
Salami	N/A							4	Giam and Wong, 1987	Early Study, no details
Salami	87-89	2	1.75			0.3	3.2	1	Page and Lacroix, 1995	
Sausage, Beef	87-89	1	0.1		0.1			1	Page and Lacroix, 1995	
Sausage, Kolbassa	87-89	1	0.8		0.8			1	Page and Lacroix, 1995	
Sausage, liver	87-89	1	0.05		<0.1			1	Page and Lacroix, 1995	
Sausage, Polish	87-89	1	0.4		0.4			1	Page and Lacroix, 1995	
Hot dogs	N/A	12	0.907	0.138		<MDL	4.318	4	CMA, 1986	
		31	**1.61**			**<0.1**	**16**			
VEGETABLES										
Beet	1986	1	0.1		<0.2			1	Page and Lacroix, 1995	MDL likely 0.09- 0.2 ug/g
Cabbage/Coleslaw	1986	1	0.14		0.14			1	Page and Lacroix, 1995	
Cauliflower	1986	1	0.045		ND			1	Page and Lacroix, 1995	MDL likely 0.09- 0.2 ug/g
Celery	1986	1	0.045		ND			1	Page and Lacroix, 1995	MDL likely 0.09- 0.2 ug/g
Chineese cabbage-land grown	95-96	1	1.2	0.1				4	Yin and Su, 1996	
Corn, raw (canned)	1986	1	0.045		ND			1	Page and Lacroix, 1995	MDL likely 0.09- 0.2 ug/g
Cucumbers and Pickles	1986	1	0.17		0.17			1	Page and Lacroix, 1995	

Lettuce	1986	1	0.045			ND			1	Page and Lacroix, 1995	MDL likely 0.09- 0.2 ug/g
Lettuce/salad - Switzerland	1991-96	1	0.280			0.280			4	Kuchen, et al. 1999	
Mushroom	1986	1	0.045			ND			1	Page and Lacroix, 1995	MDL likely 0.09- 0.2 ug/g
Pea	1986	1	0.045			ND			1	Page and Lacroix, 1995	MDL likely 0.09- 0.2 ug/g
Pickle (juice)	87-88	7	0.08				0.03	0.17	1	Page and Lacroix, 1995	DEHP detected in lid liner
Pickles	87-89	10	0.78				0.15	2.2	1	Page and Lacroix, 1995	DEHP detected in lid liner
Potato, baked	1986	1	0.045			ND			1	Page and Lacroix, 1995	MDL likely 0.09- 0.2 ug/g
Potato, boiled	1986	1	0.045			ND			1	Page and Lacroix, 1995	MDL likely 0.09- 0.2 ug/g
Potato, raw	1986	1	0.045			ND			1	Page and Lacroix, 1995	MDL likely 0.09- 0.2 ug/g
Potato - Switzerland	1991-96	1	0.076			0.076			4	Kuchen, et al. 1999	
Potato (croquette) -Japan, Osaka	2000	2	10.0				7.33	12.7	1	Tsumura et al., 2001b	Prepared for consumption
Potato salad -Japan, Osaka	2000	2	0.2				0.08	0.3	1	Tsumura et al., 2001b	Prepared for consumption
Radish, boiled dry -Japan, Osaka	2000	2	12.7				2.5	22.8	1	Tsumura et al., 2001b	Prepared for consumption
Radish, salted -Japan, Osaka	2000	1	17.8			17.8			1	Tsumura et al., 2001b	Prepared for consumption
Rutabaga	1986	1	0.045			ND			1	Page and Lacroix, 1995	MDL likely 0.09- 0.2 ug/g
Deep-fried tofu - Japan	N/A						ND	ND	2	Kataoka et al., 2002	3 samples; detection limit not provided
Tomatoes, fresh	1986	1	0.09			0.09			1	Page and Lacroix, 1995	
White leaf cabbage-hydroponic	95-96	1	1.1	0.1					4	Yin and Su, 1996	
White leaf cabbage-land grown	95-96	1	1.3	0.1					4	Yin and Su, 1996	
Sugar Beet Residues	N/A	1	0.05			0.05			2	Thuren, 1989	
Vegetables - Switzerland	1991-96	1	0.070			0.070			4	Kuchen, et al. 1999	
Vegetable Burger Mix	N/A	1	0.9			0.9			2	MAFF Report #60, May 1995	
		46	**1.69**				**0.03**	**22.8**			
Lentils	N/A	1	4			4			4	Giam and Wong, 1987	Early Study, no details
Green Peas	N/A	1	6			6			4	Giam and Wong, 1987	Early Study, no details

TOTAL DIET SAMPLES

Denmark - 24 h daily diet	1998?	29	0.11				<0.01		1	Petersen and Breindahl, 2000	Mean ranges between 0.11 and 0.18 ug/g depending on treatment of non detects
Germany, Munich and area - composite diet (solid and liquid)	2005 (April-Oct)						0.015	1.301	4	Fromme et al., 2007b	Detected in 333 of 350 samples (95%); det. limit 0.015 to 0.025 ug/g fresh wt.
Japan,Osaka - Set lunches from 10 restaurants	1999	10	0.069	0.087	0.038		0.012	0.304	1	Tsumura et al., 2001b	Detected in all 10 samples
Japan,Osaka - Packed lunches from 10 stores	1999-2000	16	4.340	3.451	3.300		0.346	11.80	1	Tsumura et al., 2001b	Detected in all 16 samples
Japan- Osaka, Aichi, & Niigata - 21 hospital meals, Lab A	1999	21	0.384	0.423	0.233		0.042	1.82	1	Tsumura et al., 2001a	Detection limit 0.023 ug/g
Japan- Osaka, Aichi, & Niigata - 21 hospital meals, Lab B	1999	21	0.046	0.057	0.033		0.01	0.271	1	Tsumura et al., 2001a	Detection limit 0.0054 ug/g
Japan- Osaka, Aichi, & Niigata - 21 hospital meals, Lab C	1999	21	0.478	1.273	0.043		0.025	4.400	1	Tsumura et al., 2001a	Detection limit 0.0038 ug/g
Japan- Osaka, Aichi, & Niigata - 21 hospital meals, Lab A	2001	21	0.103				0.033	0.255	1	Tsumura et al., 2003	Detection limit 0.0156 ug/g
Japan- Osaka, Aichi, & Niigata - 21 hospital meals, Lab B	2001	21	0.103				0.022	0.292	1	Tsumura et al., 2003	Detection limit 0.0115 ug/g
Japan- Osaka, Aichi, & Niigata - 21 hospital meals, Lab C	2001	21	0.077				0.006	0.342	1	Tsumura et al., 2003	Detection limit 0.0062 ug/g
Japan, Tokyo - 3 days, 8 households, duplicate diet samples	1998-1999	24	0.29				0.092	0.860	4	Yoshida et al., 2003 cited in Itoh et al., 2005	Samples incl. drinking water
Japan - 9 blocks across country; 3 households; 3 diets	2001 (Aug-Sept)	81	0.068				<LOD	0.330	4	Japan Min. Env., 2002 cited in Itoh et al., 2005	
Taiwan, Taipei - packaged lunch	N/A	3	0.267	0.02	0.275		0.245	0.282	4	Chen et al., 2008	
		289	**0.39**				**<0.01**	**11.80**			
Taiwan - packaged lunch; microwaved 3 min. plastic wrap covering bowl	N/A	3	2.921	0.708	3.223		2.113	3.428	4	Chen et al., 2008	
Taiwan - packaged lunch; microwaved 3 min. plastic wrap touching food	N/A	3	4.264	0.925	4.622		3.214	4.956	4	Chen et al., 2008	

INFANT FORMULA - powder

Infant formula, milk powder, UK	N/A	3	0.3		0.2		0.2	0.4	2	Sharman et al, 1994	UK
Infant Formula-Germany, powder	N/A	8	0.1294	0.0509	0.1355	0.14	<0.05	0.196	1	Gruber, et al, 1998	
Infant Formula-1, casein powder	1996	2	0.81			0.81			2	MAFF Rpt-83, March, 1996	1 composite sample
Infant Formula-1, soy powder	1996	2	0.56			0.56			2	MAFF Rpt-83, March, 1996	1 composited sample
Infant Formula-1, whey powder	1996	2	0.98			0.98			2	MAFF Rpt-83, March, 1996	1 composited sample
Infant Formula-2, casein powder	1996	2	0.52			0.52			2	MAFF Rpt-83, March, 1996	1 composite sample
Infant Formula-2, soy powder	1996	2	0.38			0.38			2	MAFF Rpt-83, March, 1996	1 composited sample
Infant Formula-2, whey powder	1996	2	0.54			0.54			2	MAFF Rpt-83, March, 1996	1 composited sample
Infant Formula-3, casein powder	1996	2	0.47			0.47			2	MAFF Rpt-83, March, 1996	1 composite sample
Infant Formula-3, whey powder	1996	2	0.38			0.38			2	MAFF Rpt-83, March, 1996	1 composited sample
Infant Formula-4, casein powder	1996	2	0.72			0.72			2	MAFF Rpt-83, March, 1996	1 composite sample
Infant Formula-4, whey powder	1996	2	0.77			0.77			2	MAFF Rpt-83, March, 1996	1 composited sample
Infant Formula-5, casein powder	1996	2	0.33			0.33			2	MAFF Rpt-83, March, 1996	1 composite sample
Infant Formula-5, whey powder	1996	2	0.53			0.53			2	MAFF Rpt-83, March, 1996	1 composited sample
Infant Formula-BF1, whey powder	1998	2	0.365		0.365		0.36	0.37	1	MAFF Rpt-168, December, 1998	
Infant Formula-BF2, casein powder	1998	2	0.425		0.425		0.41	0.44	1	MAFF Rpt-168, December, 1998	
Infant Formula-C&G Plus, caseinpowder	1998	4	0.069		0.07		<0.05	0.11	1	MAFF Rpt-168, December, 1998	detected in 3 of 4 samples
Infant Formula-C&G Premium, whey powder	1998	4	0.056		<0.05		<0.05	0.15	1	MAFF Rpt-168, December, 1998	detected in 1 of 4 samples
Infant Formula-C&GI, soya powder	1998	2	0.11		0.125		<0.05	0.2	1	MAFF Rpt-168, December, 1998	
Infant Formula-FFM, whey powder	1998	2	0.0425		0.055		<0.05	0.06	1	MAFF Rpt-168, December, 1998	
Infant Formula-FSF, soya powder	1998	2	0.095		0.095		0.07	0.12	1	MAFF Rpt-168, December, 1998	
Infant Formula-FSM, casein powder	1998	2	0.0375		0.05		<0.05	0.05	1	MAFF Rpt-168, December, 1998	
Infant Formula-MA, whey powder	1998	2	0.305		0.305		0.25	0.36	1	MAFF Rpt-168, December, 1998	
Infant Formula-MM, casein powder	1998	2	0.0625		0.075		<0.05	0.1	1	MAFF Rpt-168, December, 1998	
Infant Formula-SMA Gold, whey powder	1998	4	0.12		<0.05		<0.05	0.41	1	MAFF Rpt-168, December, 1998	detected in 1 of 4 samples
Infant Formula-SMA White, casein powder	1998	5	0.061		0.06		<0.05	0.09	1	MAFF Rpt-168, December, 1998	detected in 4 of 5 samples
Infant Formula-SMAW, soya powder	1998	2	0.11		0.125		<0.05	0.2	1	MAFF Rpt-168, December, 1998	
Infant Formula-Alsoy soy powder	1996	1	0.021			0.021			2	US Public Health Service, 1996	1 composited sample
Infant Formula-Carnation nursette	1996	1	0.051			0.051			2	US Public Health Service, 1996	1 composited sample
Infant Formula-Carnation powder	1996	1	0.006			<0.012			2	US Public Health Service, 1996	1 composited sample
Infant Formula-Enfamil powder	1996	1	0.006			<0.012			2	US Public Health Service, 1996	1 composited sample
Infant Formula-Follow-up powder	1996	1	0.006			<0.012			2	US Public Health Service, 1996	1 composited sample
Infant Formula-Gerber Baby powder	1996	1	0.006			<0.012			2	US Public Health Service, 1996	1 composited sample
Infant Formula-Gerber soy powder	1996	1	0.006			<0.012			2	US Public Health Service, 1996	1 composited sample
Infant Formula-Isomil soy powder	1996	1	0.03			0.03			2	US Public Health Service, 1996	1 composited sample
Infant Formula-Proseebee soy powder	1996	1	0.006			<0.012			2	US Public Health Service, 1996	1 composited sample
Infant Formula-Similac powder	1996	1	0.015			0.015			2	US Public Health Service, 1996	1 composited sample
Infant formula - Japan	2000-2001				0.13		0.028	0.28	1	Tsumura et al., 2002	LOD=0.013; 6 samples
Baby milk powder - Turkey	2001-2002	3	0.281						1	Yano et al., 2005	
Baby milk powder - Japan	2001-2002	3	0.218						1	Yano et al., 2005	
Baby milk powder - UK	2001-2002	3	0.180						1	Yano et al., 2005	
Baby milk powder - Thailand	2001-2002	3	0.172						1	Yano et al., 2005	
Baby milk powder - Vietnam	2001-2002	3	0.123						1	Yano et al., 2005	
Baby milk powder - 11 countries in Asia, Europe, N.America	2001-2002						0.034	0.281	1	Yano et al., 2005	
		95	**0.25**				**<0.012**	**0.98**			

INFANT FORMULA - liquid

Infant Formula-SMAW, ready-to-feed liquid	1998			<0.005		<0.005	0.15	1	MAFF Rpt-168, December, 1998	detected in 1 of 4 samples
Infant Formula-Alsoy soy ready-to-feed liquid	1996	1	0.006		<0.012			2	US Public Health Service, 1996	1 composited sample
Infant Formula-Carnation ready-to-feed liquid	1996	1	0.006		<0.012			2	US Public Health Service, 1996	1 composited sample
Infant Formula-Enfamil ready-to-feed liquid	1996	1	0.006		<0.012			2	US Public Health Service, 1996	1 composited sample
Infant Formula-Enfamil ready-to-feed nursette	1996	1	0.006		<0.012			2	US Public Health Service, 1996	1 composited sample
Infant Formula-Follow-up ready-to-feed liquid	1996	1	0.006		<0.012			2	US Public Health Service, 1996	1 composited sample
Infant Formula-Isomil soy ready-to-feed liquid	1996	1	0.006		<0.012			2	US Public Health Service, 1996	1 composited sample
Infant Formula-Proseebee soy ready-to-feed liquid	1996	1	0.006		<0.012			2	US Public Health Service, 1996	1 composited sample
Infant Formula-Proseebee soy ready-to-feed nursette	1996	1	0.006		<0.012			2	US Public Health Service, 1996	1 composited sample
Infant Formula-Similac ready-to-feed liquid	1996	1	0.011		0.011			2	US Public Health Service, 1996	1 composited sample
Reconstituted infant formulae - Denmark	1998?					<0.004	0.06	1	Petersen and Breindahl, 2000	Above limit of determination in 2 of 11 samples
Reconstituted infant formula - Spain - powder in can	2003	2	0.0205	0.0045				1	Casajuana and Lacorte, 2004	
Infant formula - U.S. - six brands	N/A					ND	0.051	4	McNeal et al 2000	Cited in Casajuana and Lacorte, 2004
		11	**0.009**			**<0.004**	**0.15**			
BREAST MILK										
Mother's milk - Canada, Kingston, Ontario	2003-2004	86	0.222		0.116	NA	2.92	1	Zhu et al., 2006	Geo. mean = 0.109 ug/g; det. limit = 0.0012 ug/g
Mothers milk-Germany	N/A	5	0.0932	0.0375		0.071	0.16	1	Gruber, et al, 1998	
Mothers milk-Germany	N/A	5	0.03			0.01	0.11	4	Bruns-Weller and Pfordt, 2000	
Mother's milk- Japan	N/A					0.01	0.6	4	Yano, 1979	
Sweden - 2 to 3 wks after delivery; age 23 to 39 y	2001	42	0.017	0.047	0.009	0.00045	0.305	4	Hogberg et al., 2008	Detected in all 42 samples; det. limit = 0.0009 ug/g; 75th perc = 0.013 ug/g
		138	**0.148**			**0.00045**	**2.92**			
BABY FOOD										
Baby food-Germany	N/A	5	0.020			0.01	0.02	4	Bruns-Weller and Pfordt, 2000	
Baby Food	87-88	4	0.26			0.04	0.6	1	Page and Lacroix, 1995	DEHP detected in lid liner
Baby Food	88-89							1	Page and Lacroix, 1995	DEHP not detected in lid liner; conc. in food not determined
Meat/vegetable combinations of baby food	N/A	7	0.115	0.0545	0.1	0.052	0.21	1	Gruber, et al, 1998	6 meat/veg combinations, 1 mixed vegetable
Ready to use, glass jarred - Denmark	1998?					<0.02	0.63	1	Petersen and Breindahl, 2000	Above limit of determination in 2 of 11 samples
Retort-pouched baby food - Japan	2000-2001				0.081	<0.037	4.25	1	Tsumura et al., 2002	LOD=0.037; 13 samples
Baby snack - Japan	2000-2001				0.32	0.12	0.45	1	Tsumura et al., 2002	5 samples
		16	**0.12**			**0.01**	**4.25**			
Japan - baby food; various types of containers	2001					1.3	18	4	Ozaki et al., 2002	Units are ug per sample; detected in 15 of 16 samples
MISCELLANEOUS										
Enteral feeding solution - Germany: ug/mL	N/A					11.7	14.6	4	Welle et al., 2005	Dose: adult = 0.024 mg/kg/d; newborn = 0.726 mg/kg/d
Enteral feeding solution - Japan: ug/mL	N/A	3	0.0347			0.0216	0.0496	2	Takatori et al., 2008	Sol'n for neonatal/infant; before contact with DEHP-containing material
Enteral feeding solution - Japan: ug/mL	N/A	3	1.070			1.000	1.130	2	Takatori et al., 2008	Sol'n for neonatal/infant; after contact with DEHP-containing material
Enteral feeding solution - Japan: ug/mL	N/A	1	0.0586					2	Takatori et al., 2008	Sol'n for neonatal/infant; before contact with DEHP-containing material
Enteral feeding solution - Japan: ug/mL	N/A	1	0.203					2	Takatori et al., 2008	Sol'n for neonatal/infant; after contact with DEHP-containing material
Enteral feeding solution - Japan: ug/mL	N/A	1	0.0643					2	Takatori et al., 2008	Sol'n for adult; before contact with DEHP-containing material
Enteral feeding solution - Japan: ug/mL	N/A	1	0.513					2	Takatori et al., 2008	Sol'n for adult; after contact with DEHP-containing material
Enteral feeding solution - Japan: ug/mL	N/A	1	0.158					2	Takatori et al., 2008	Sol'n for adult; before contact with DEHP-containing material
Enteral feeding solution - Japan: ug/mL	N/A	1	0.721					2	Takatori et al., 2008	Sol'n for adult; after contact with DEHP-containing material
Water passed through enteral feeding materials - Japan: ug/mL	N/A	1	0.054					2	Takatori et al., 2008	After contact with DEHP-containing material; prior to contact < 0.015 ug/mL
Bergamot essential oil - Italy: mg/L	1999	N/A	1.38			nd	3.08	4	Di Bella et al., 2004	Detection limit not provided
Bergamot essential oil - Italy: mg/L	2000	N/A	1.42			nd	2.90	4	Di Bella et al., 2004	Detection limit not provided
Packaging for pastry crust, pudding, waffles, etc	N/A					<5		2	MAFF Report #60, May 1995	Packaging for these foods
Rat heart			0			0.00129		4	in Wams, 1987	
Convolvulus-Hydroponic	95-96			0.1				4	Yin and Su, 1996	
Convolvulus-land grown	95-96			0.3				4	Yin and Su, 1996	
Retort-pouched	N/A						0.19	4	Giam and Wong, 1987	
Sultanas	N/A				138			4	Giam and Wong, 1987	Early Study, no details
Tilapia	95-96			0.3				4	Yin and Su, 1996	
Biota-Storet database	N/A				3			4	Staples et al, 1985	median; not necessarily edible biota
Grains	N/A				1.5			4	Environment Canada and Health Canada, 1994	duplicate of Page and Lacroix?
Dog Heart			0				0.00036	4	in Wams, 1987	early work, units?
Cow heart			0				0.135	4	in Wams, 1987	early work, units?
Aquatic organisms-Gulf of Mexico		0.0045	0			0.001	0.135	4	Zitko, 1973	

BIS (2-EthylHexyl) Phthalate **Other Media**

Wastewater **Concentration in ug/L**

Location	Date	N	Average	SD	Median	Single Point	Range Low	Range High	Data Quality	Reference	Comments
USA											
California, south - reclaimed wastewater	2001-02	6	7.18		<3.53		<3.53	20.7	1	Loraine and Pettigrove, 2006	Det. in 4 of 6 samples
Coal Power Station emission	N/A						1	13	4	Haile, et al.	ug per dry standard cubic meter
Demineralized water after PVC Contact	N/A						<0.09	2.4	4	Van Vliet, 1979	for 0 to 600 hour exposure
Fly Ash Leachate	N/A	1	40				24	56	4	Carroll and Oberacker, 1989 (EPA/600/D-89/232)	
Ft. Devens, MA, wastewater	78-81	1	5.6			5.6			4	Bedient, et al, 1983	
Missouri & Kansas, Blue River Basin, Kansas City - sewage	1998-2000	65	8.8	11.4	5.6		<2.5	81	2	Wilkison et al., 2002	Detected in 53 of 65 samples
Missouri & Kansas, Blue River Basin, Kansas City - stormflow	1998-2000	167	2.2	7.2	<2		1.3	90	2	Wilkison et al., 2002	Detected in 34 of 167 samples
New Orleans WTP	N/A						0.1	0.46	4	USEPA, 1987	in Wade Miller, 1989
New York City WW Effluent	89-93						5	50	4	Stubin et al, 1996	Detected in 40 of 84 samples
New York City WW Effluent	N/A							38	4	Iannone et al, 1984	in Stubin
New York City WW Influent	89-93						10	80	4	Stubin et al, 1996	Detected in 10 of 84 samples
New York City WW Influent	N/A							31	4	Iannone et al, 1984	in Stubin
NJ POTW-A effluent	NA	1	4				2	6	4	Clark et al, 1991b	low values by PB-LC/MS, high by GC/MS
NJ POTW-B effluent	NA	1	11				8	14	4	Clark et al, 1991b	low values by PB-LC/MS, high by GC/MS
NJ POTW-C effluent	NA	1	5				2	8	4	Clark et al, 1991b	low values by PB-LC/MS, high by GC/MS
PAE plant discharge pond, Chester River MD	1978	1	110			110			4	Peterson and Freeman, 1984	
Philadelphia WTP	N/A	1	0.6			0.6			4	USEPA, 1987	in Wade Miller, 1989
POTW Influent							1097	4396	4	EPA440.01.91.009A	
Los Angeles - industrial wastewater	N/A						510	456,000	4	Alatriste-Mondragon et al., 2003	
South Dakota, Watertown, Brookings, & Volga - effluent	2003-2004	7	1		<2		<2	1.9	1	Sando et al., 2005	Detected in 1 of 7 samples
Times Beach Confined Disposal, subsurface water	N/A	1	37					81	4	NRTC in Lee et al, 1991	No sampling dates
Times Beach Confined Disposal, surface water	N/A					ND			4	NRTC in Lee et al, 1991	No sampling dates
Urban Stormwater	N/A						7	39	4	Cole et al, 1984	13% samples > DL; Don't know sampling period
US WW Effluent	N/A							370	4	Burns and Roe, 1982	in CEPA
US WW Influent	N/A							670	4	Burns and Roe, 1982	in CEPA
U.S. leachate from municipal and ind. Landfills							0.01	150	4	ATSDR, (1993)	reported in O'Connor, 1996
Marion (Bragg) Dump in Indiana								1000	4	ATSDR, (1995)	reported in O'Connor, 1996
		253	**4.8**				**0.01**	**456,000**			
NJ POTW-A effluent	NA						60	100	3	Clark et al, 1991a	
NJ POTW-B effluent	NA						92	103	3	Clark et al, 1991a	
NJ POTW-C effluent	NA						50	99	3	Clark et al, 1991a	
CA, Oakland - residential wastewater	2006	2	6.2				3.3	9.1	3	Jackson and Sutton, 2008	Conc. in blank = 8.7 ug/L
CA, Oakland - wastewater from nail salon	2006	1	1.2			1.2			3	Jackson and Sutton, 2008	Conc. in blank = 8.7 ug/L
CA, Oakland - industrial laundry wastewater	2006	2	1365				30	2700	3	Jackson and Sutton, 2008	Conc. in blank = 8.7 ug/L;meas. value noted as "estimated concentration"
CA, Oakland - residential coin laundry wastewater	2006	1	66			66			3	Jackson and Sutton, 2008	Conc. in blank = 8.7 ug/L
CA, Oakland - wastewater from diaper service	2006	1	0.63			0.63			3	Jackson and Sutton, 2008	Conc. in blank = 8.7 ug/L;meas. value noted as "estimated concentration"
CA, Oakland - wastewater from pet wash	2006	1	6.5			6.5			3	Jackson and Sutton, 2008	Conc. in blank = 8.7 ug/L
CA, Oakland - wastewater from veterinary clinic	2006	1	<11			<11			3	Jackson and Sutton, 2008	Conc. in blank = 8.7 ug/L
CA, Oakland - wastewater from hospital and medical clinic	2006	2	1.85				1	2.7	3	Jackson and Sutton, 2008	Conc. in blank = 8.7 ug/L
CA, Oakland - wastewater from pharmaceutical manufacturer	2006	1	0.99			0.99			3	Jackson and Sutton, 2008	Conc. in blank = 8.7 ug/L
CA, Oakland - wastewater from plastic bag manufacturer	2006	1	49			49			3	Jackson and Sutton, 2008	Conc. in blank = 8.7 ug/L
CA, Oakland - wastewater from paper products manufacturer	2006	1	6.8			6.8			3	Jackson and Sutton, 2008	Conc. in blank = 8.7 ug/L
CA, Oakland - wastewater from beverage manufacturer	2006	1	<4.1			<4.1			3	Jackson and Sutton, 2008	Conc. in blank = 8.7 ug/L
CA, Oakland - wastewater from adhesives manufacturer	2006	1	47			47			3	Jackson and Sutton, 2008	Conc. in blank = 8.7 ug/L;meas. value noted as "estimated concentration"
CA, Oakland - pre-treated influent at WWTP	2006	2	21.1				9.2	33	3	Jackson and Sutton, 2008	Conc. in blank = 8.7 ug/L
CA, Oakland - treated effluent at WWTP	2006	3	1.37				0.21	2.9	3	Jackson and Sutton, 2008	Conc. in blank = 8.7 ug/L;meas. value noted as "estimated concentration"
Central Europe/UK											
Belgium - Roeselare; WWTP influent	2001	16	31.46		28.53		8.68	69.58	4	ECPI, 2001	
Belgium - Roeselare; WWTP effluent	2001	16	1.36		1.32		<1.00	4.12	4	ECPI, 2001	
Belgium - Negenmanneke; WWTP influent, domestic	2002	3	15.0		6.55		3.63	34.83	4	ECPI, 2002	
Belgium - Negenmanneke; WWTP effluent, domestic	2002	3	0.025		<0.05		<0.05	<0.05	4	ECPI, 2002	
Domestic WW-Effluent	1992	1	0.54			0.54			1	Furtmann, 1993	
Domestic WW-Influent	1992	1	25			25			1	Furtmann, 1993	
France, Marne Aval - WWTP influent after pre-treatment (grit removal)	2006 (May)	7	22.46	13.22			9	44	1	Dargnat et al., 2009	
France, Marne Aval - WWTP final effluent	2006 (May)	7	5.02	1.53			3.4	7.5	1	Dargnat et al., 2009	Removal: 78%
France, Marne Aval - WWTP final effluent, rainy conditions	2007 (March)	1	6.873			6.873			1	Dargnat et al., 2009	
France, Paris - influent, dry weather	N/A				27		16	57	4	Gasperi et al., 2008	n=10; detected in 100% samples
France, Paris - wet weather, combined sewer overflow	N/A				22		5	188	4	Gasperi et al., 2008	n=13; detected in 100% samples
Germany - effluent from 39 STPs	1997				8.8		1.74	182	4	Fromme, et al. 2002	
Germany - 2 "dump runoff samples"	1997	2	97.7				26.4	168.9	4	Fromme, et al. 2002	
Germany - 2 compost water samples	1997	2	21.5				16.8	26.1	4	Fromme, et al. 2002	
Germany - municipal <1000 inhabitants	1999	1	0.7			0.7			4	Alberti, et al. 2000	
Germany - municipal <5000 inhabitants	1999	1	0.44			0.44			4	Alberti, et al. 2000	
Germany - municipal <10,000 inhabitants	1999	1	0.1			0.1			4	Alberti, et al. 2000	
Germany - municipal <100,000 inhabitants	1999	1	0.25			0.25			4	Alberti, et al. 2000	
Germany - municipal >100,000 inhabitants	1999	1	0.6			0.6			4	Alberti, et al. 2000	
Germany - pulp & paper industry	1999	1	1.74			1.74			4	Alberti, et al. 2000	
Germany - leather industry	1999	1	14			14			4	Alberti, et al. 2000	
Germany - landfill	1999	1	0.26			0.26			4	Alberti, et al. 2000	
Germany - chemical fibres	1999	1	0.79			0.79			4	Alberti, et al. 2000	
Germany - textiles industry	1999	1	0.17			0.17			4	Alberti, et al. 2000	
Germany - chemical industry	1999	1	0.33			0.33			4	Alberti, et al. 2000	
Germany - coating materials	1999	1	0.24			0.24			4	Alberti, et al. 2000	
Industrial water Basins	N/A						1	85	4	USPHS, 1987	
Industrial WW-Effluent	1992	1	0.9			0.9			1	Furtmann, 1993	
Industrial WW-Influent	1992	1	71			71			1	Furtmann, 1993	
Italy-Filtered POTW influent	Feb-95	5	41	6					4	Lepri et al, 1997	
Italy-Filtered POTW influent	Jul-95	5	93	12					4	Lepri et al, 1997	
Netherlands - untreated municipal wastewater	1999				32		<13	101	1	Vethaak, et al. 2002	Detected in 12 of 12 samples
Netherlands - municipal effluent	1999				1.5		<0.5	2.4	1	Vethaak, et al. 2002	Detected in 7 of 9 samples
Netherlands - untreated industrial wastewater	1999				39		7	1498	1	Vethaak, et al. 2002	Detected in 6 of 6 samples
Netherlands - industrial effluent	1999				4.8		1.0	9.2	1	Vethaak, et al. 2002	Detected in 4 of 4 samples
Netherlands WW effluent	N/A				1.6		0.7	4.1	4	van der Velde, et al (RIVM)	
Netherlands WW influent	N/A				10.7		0.4	27.2	4	van der Velde, et al (RIVM)	
Spain, Barcelona - untreated urban wastewater	N/A	1	3.8			3.8			1	Alzaga et al., 2003	
Spain, Barcelona - treated urban wastewater	N/A	1	0.85			0.85			1	Alzaga et al., 2003	
Spain - outflow of wastewater treatment plant	N/A	1	3.8			3.8			1	Gimeno et al., 2003	
Spain, Catalonia - Ter River basin; influent from STP	2001 (March)	5	0.035				<0.07	<0.07	4	Cespedes et al., 2006	Not detected at any of 5 locations
Spain, Catalonia - Ter River basin; effluent from STP	2001 (March)	5	0.035				<0.07	<0.07	4	Cespedes et al., 2006	Not detected at any of 5 locations

Legend

Data, changes or comments added in 2009

Excluded from calculated summary

Indicates average based on detection limit

BOLD **Calculated category summary**

Data Quality
1 - Reliable without restrictions
2 - Reliable with restrictions
3 - Not reliable
4 - Unassignable

Spain, Catalonia - Llobregat R. basin; influent from STP	2001 (autumn)	4	1.5	1.3	1.4		0.26	3.17	4	Cespedes et al., 2005	24 h composite samples from 4 locations
Spain, Catalonia - Llobregat R. basin; effluent from STP	2001 (autumn)	4	0.8	0.6	0.7		0.23	1.34	4	Cespedes et al., 2005	24 h composite samples from 4 locations
Spain, south Catalonia - effluent from WW plant	2002?	1	3.97			3.97			1	Brossa et al., 2003	
Spain, Galicia - influent from STP	N/A	1	3.280			3.280			1	Polo et al., 2005	
Spain, Galicia - effluent from STP	N/A	1	0.859			0.859			1	Polo et al., 2005	
Spain - wastewater from urban collector	N/A	1	6.172			6.172			1	Polo et al., 2005	
Spain, Granada - urban wastewater influent	N/A	6	0.6	0.35	0.6		<0.300	1.1	1	Ballesteros et al., 2006	Detected in 5 of 6 samples
Spain, Granada - urban wastewater influent	N/A	6	0.05	0.06	<0.026		<0.026	0.15	4	Zafra-Gomez et al., 2008	Detected in 2 of 6 samples
Scotland - SEPA West Region - STW Effluent	1996	19	35.5	55.8	3.4		<2.4	177.8	4	Pirie et al., 1996	Detected in 10 of 19 samples
Scotland - SEPA East Region - STW Effluent	1996	24	43.2	59.9	16.5		<2.4	245.4	4	Pirie et al., 1996	Detected in 16 of 24 samples
UK, Prestwich, sewage treatment plant effluent	1984	1	1.9			1.9			4	Fatoki and Vernon, 1990	
UK - Dabholm Gut on Tees Estuary	1998	1	393			393			4	Thomas, et al. 2001	STW effluent (domestic and industrial) and industrial effluent
UK - Petersfield, Hampshire - domestic STW raw sewage	2001-2002	23	23.6	12.2					4	Oliver et al., 2005	
UK - Petersfield, Hampshire - domestic STW primary tank effluent	2001-2002	23	22.0	11.9					4	Oliver et al., 2005	
UK - Petersfield, Hampshire - domestic STW trickle filter effluent	2001-2002	23	14.6	9.77					4	Oliver et al., 2005	
UK - Petersfield, Hampshire - domestic STW humus tank effluent	2001-2002	23	18.5	13.5					4	Oliver et al., 2005	
UK - Petersfield, Hampshire - domestic STW reedbed effluent	2001-2002	23	18.6	16.4					4	Oliver et al., 2005	
UK - urban wastewater - new housing estate (<5 y)	N/A	1	57			57			4	Rule et al., 2006	
UK - urban wastewater - old housing estate (1960s)	N/A	1	9.2			9.2			4	Rule et al., 2006	
UK - urban wastewater - commercial area	N/A	1	20			20			4	Rule et al., 2006	
Northern Europe											
Denmark - W/W Inlet	1992						125	250	4	Gruttner and Jacobsen, 1994	
Denmark - W/W Outlet	1992						5.2	26	4	Gruttner and Jacobsen, 1994	
Denmark - Aalborg East municipal WWTP, influent	N/A	3	71.89	13.64			53.23	84.1	4	Roslev et al., 2007	24 hour samples
Denmark - Aalborg East municipal WWTP, effluent	N/A	3	4.92	4.36			2.08	9.93	4	Roslev et al., 2007	24 hour samples
Denmark - Avedoere WWTP, influent	2002 (10-11)	3	45	1.5	45		43	46	4	Jacobsen et al., 2004	Grab samples
Denmark - Avedoere WWTP, effluent	2002 (10-11)	3	0.25		<0.50		<0.50	<0.50	4	Jacobsen et al., 2004	Grab samples
Denmark - Soholt - inlet	1996	3	33.3						4	Boutrup et al., 1998; cited in NCI, 2000	
Denmark - Soholt - outlet	1996	3	2.4						4	Boutrup et al., 1998; cited in NCI, 2000	
Denmark - Viby - inlet	1996	3	35						4	Boutrup et al., 1998; cited in NCI, 2000	
Denmark - Viby - outlet	1996	3	1						4	Boutrup et al., 1998; cited in NCI, 2000	
Denmark - Roskilde, car wash	1996-97	26	112	146			5.2	760	1	Vikelsoe et al., 1998	
Denmark - Roskilde, hospital	1996	6	15				2.1	35	1	Vikelsoe et al., 1998	
Denmark - Roskilde, kindergarten	1996					<600			1	Vikelsoe et al., 1998	
Denmark - Roskilde, industrial laundry	1996	2	111				91	130	1	Vikelsoe et al., 1998	
Denmark - Roskilde, WWTP inlet	1996	10	44				20	67	1	Vikelsoe et al., 1998	
Denmark - Herlev, adhesives industry	1996						<600		1	Vikelsoe et al., 1998	Not detected in 2 samples tested
Denmark - Roskilde WWTP - inlet	May-99	7	35.4	10.6	36.6		13.1	44.3	4	Fauser et al., 2001	Mean 5.25 ug/L in supernatant; 34.3 ug/L settled
Denmark - Roskilde WWTP - outlet	May-99	7	0.96	0.94	0.76		0.11	2.65	4	Fauser et al., 2001	
Denmark - Water extract of sludge	N/A	19	52.35		30		0.2	310	4	Rykfors, 1996	
Finland, 4 STPs - influent	1998-2001						28	122	2	Marttinen et al., 2003a	
Finland, 4 STPs - effluent	1998-2001						2	8	2	Marttinen et al., 2003a	
Finland, Espoo STP - influent	N/A	2	110	17					2	Marttinen et al., 2003b	
Finland, Espoo STP - primary effluent	N/A	2	68	7					2	Marttinen et al., 2003b	
Finland, Espoo STP - secondary effluent	N/A	2	6	1					2	Marttinen et al., 2003b	
Norway, Bekkelaget Plant Slurry	1996				15.7				1	NIVA, 1996	ug/L
Norway, Bekkelaget Sewage Plant Inflow	1996				6.3				1	NIVA, 1996	ug/L
Norway, Bekkelaget Sewage Plant Outflow	1996				0.075				1	NIVA, 1996	ug/L
Norway, Fuglevik Plant Slurry	1996				40.4				1	NIVA, 1996	ug/L
Norway, Fuglevik Sewage Plant Inflow	1996				12.8				1	NIVA, 1996	ug/L
Norway, Fuglevik Sewage Plant Outflow	1996				0.127				1	NIVA, 1996	ug/L
Norway, Veas Plant Slurry	1996				117				1	NIVA, 1996	ug/L
Norway, VEAS Sewage Plant Inflow	1996				15				1	NIVA, 1996	ug/L
Norway, VEAS Sewage Plant Outflow	1996				0.068				1	NIVA, 1996	ug/L
Norway, WWTP influent - biological treatment with chemical pptn	2002	2	2.3				1.8	2.8	4	Vogelsang, et al. 2006	7-10 d composite samples
Norway, WWTP influent - chemical treatment only	2002	2	8.5				4.0	13	4	Vogelsang, et al. 2006	7-10 d composite samples
Norway, WWTP influent - chemical treatment only	2002	2	8.75				7.6	9.9	4	Vogelsang, et al. 2006	7-10 d composite samples
Norway, WWTP influent - chemical treatment only	2002	2	10.6				<0.5	21	4	Vogelsang, et al. 2006	7-10 d composite samples
Norway, WWTP influent - mechanical treatment only	2002	2	0.25				<0.5	<0.5	4	Vogelsang, et al. 2006	7-10 d composite samples
Norway, WWTP effluent - biological treatment with chemical pptn	2002	2	2.3				2.8	3.3	4	Vogelsang, et al. 2006	7-10 d composite samples; removal efficiency = -20% to -60%
Norway, WWTP effluent - chemical treatment only	2002	2	0.25				<0.5	<0.5	4	Vogelsang, et al. 2006	7-10 d composite samples; removal efficiency = >80% to >90%
Norway, WWTP effluent - chemical treatment only	2002	2	2.35				2.1	2.6	4	Vogelsang, et al. 2006	7-10 d composite samples; removal efficiency = 70%
Norway, WWTP effluent - chemical treatment only	2002	2	17				<0.5	34	4	Vogelsang, et al. 2006	7-10 d composite samples; removal efficiency = -60% to <DL
Norway, WWTP effluent - mechanical treatment only	2002	2	0.25				<0.5	<0.5	4	Vogelsang, et al. 2006	7-10 d composite samples; removal efficiency = <DL
Sweden - Stockholm W/W Inlet-Weekday	N/A						6	11	4	Lundberg, 1994	in Parkman and Remberger
Sweden - Stockholm W/W Inlet-Weekend	N/A						4	6	4	Lundberg, 1994	in Parkman and Remberger
Sweden - POTW effluent	89-91						0.3	2	4	Paxeus, et al, 1992	
Sweden - POTW Influent	89-91						5	200	4	Paxeus, et al, 1992	
Sweden - POTW Influent	89	4	43						4	Paxeus, et al, 1992	
Sweden - POTW Influent	90	4	37						4	Paxeus, et al, 1992	
Sweden - POTW Influent	91	8	30						4	Paxeus, et al, 1992	
Sweden - Wastewater	N/A						4	40	4	Lundberg, 1994	in Parkman and Remberger
Sweden - industrial wastewater	1990	1	57						4	Kallqvist, et al. 1991; cited in NCI, 2000	Neste Oxo
Sweden - industrial wastewater	1997	1	0.08						4	Solyom and Edengren, 1997; cited in NCI, 2000	Neste Oxo
Sweden - Stockholm (Bromma)	1990						28	1800	4	Stockholm vatten, 1991; cited in NCI, 2000	Three industrial areas
Sweden-Goteborg - carwash effluent	1990-92						20	4100	4	Paxeus, 1996a	
Sweden - municipal wastewater influent	1996						8	51	4	Paxeus, 1999b	Six municipal WWTPs
Sweden - municipal wastewater effluent	1996						1.0	3.0	4	Paxeus, 1999b	Six municipal WWTPs
Sweden - industrial wastewater	1990						5	50	4	Paxeus and Avergard, 1992	8 large industries
Sweden - domestic wastewater	1988						10	270	4	Mattson et al., 1991	2 residential areas
		428	**30**				**<0.026**	**4100**			
Sweden-WWTP effluent	1993-94		13.5				10	17	3	Paxeus, 1996b	
Italy, northern - WWTP effluent	2007 (Jan-May)	6	0.060	0.027	0.048		0.0335	0.105	3	Bicchi et al., 2009	
Canada											
Alberta Industrial Surface Water	84-99	607	5.69	19.7	3		<0.1	336	4	AENV, R. Tchir, 1999	Database analysed by O'Connor (see Clark, et al. 2001)
Alberta STP's-water	N/A	44	5.2	8.4					4	Alberta Env. Protection, 1996a	
Alberta STP's-water	<1990	9	10.9						4	Alberta Env. Protection, 1996a	
Alberta STP's-water	>1990	1	3.7						4	Alberta Env. Protection, 1996a	
Alberta - effluent from 7 WWTPs	Dec 02-Jun 03	8	2.842	2.160	2.842		0.1055	5.501	1	Alberta Environment, 2005	
Ontario industrial effluent	89-90						0.4	19	4	OME, 1992a	MISA - Organic Chemical Manufacturing Sector
Ontario industrial effluent	89-91						0.22	65.1	4	OAEI, 1996	MISA - Inorganic Chemical Sector
Ontario industrial effluent	88-89	1	1.9				1.4	11	4	OAEI, 1996	MISA - Petroleum Refining Sector
St. Clair River, Chem Plnt Intake	1979						10	100	4	Munro et al, 1985	
Western Cda; Bleached Kraft Pulp Mill Effluent	N/A	6	0.885		0.94		0.68	1.093	1	Fernandez et al., 2007	Grab samples
Western Cda; Domestic WWTP "B" Influent	N/A	8	11.836				10.936	12.949	1	Fernandez et al., 2007	Grab samples
Western Cda; Domestic WWTP "B" Effluent	N/A	8	2.715				1.555	4.676	1	Fernandez et al., 2007	Grab samples; 77% reduction
Western Cda; Domestic WWTP "C" Influent	N/A	1	3.471			3.471			1	Fernandez et al., 2007	Grab samples

Western Cda; Domestic WWTP "C" Effluent	N/A	1	0.869			0.869			1	Fernandez et al., 2007	Grab samples; 75% reduction
Western Cda; Domestic WWTP "D" Influent	N/A	1	9.960			9.960			1	Fernandez et al., 2007	24 h composite samples
Western Cda; Domestic WWTP "D" Effluent	N/A	1	17.092			17.092			1	Fernandez et al., 2007	24 h composite samples; 72% increase
Western Cda; Domestic WWTP "E" Influent	N/A	1	5.217			5.217			1	Fernandez et al., 2007	Grab samples
Western Cda; Domestic WWTP "E" Effluent	N/A	3	4.295				3.704	5.091	1	Fernandez et al., 2007	Grab samples; 29% reduction
		700	**5.7**				**<0.1**	**336**			
Montreal, PQ - municipal WWTP influent	2005 (March)	2	70.0				57	80	3	Barnabe et al., 2008	
Montreal, PQ - municipal WWTP effluent following grit removal	2005 (March)	1	41.0			41			3	Barnabe et al., 2008	
Montreal, PQ - municipal WWTP effluent	2005 (March)	1	54.0			54			3	Barnabe et al., 2008	
Japan/Asia											
China, Beijing - municipal STP, secondary effluent	N/A	1	13.5			13.5			4	Li et al., 2005	
China, Beijing - municipal STP, secondary effl. after treatment	N/A	1	3.1			3.1			4	Li et al., 2005	Treatment by ozone and biological activated carbon
China, Beijing - municipal STP, secondary effl. after treatment	N/A	1	2.6			2.6			4	Li et al., 2005	Treatment by activated carbon, ozone and biological activated carbon
China, Beijing - Gaobeidian WWTP effluent	N/A	1	1.9			<3.8			1	Wang, L. et al., 2007	
China, Beijing - Gaobeidian WWTP effluent	2006	1	0.52			0.52			4	Li et al., 2008	
China, Tianjin - effluent from domestic STP	Oct 03-Sept 04	7	1.800				1.120	2.382	4	Wang et al., 2005	Influent to three stage treatment of reclaimed water
China, Tianjin - STP effluent after coagulation treatment	Oct 03-Sept 04	7	0.558				0.744	1.970	4	Wang et al., 2005	Effluent of first treatment stage
China, Tianjin - after continous micro-membrane filtration treatment	Oct 03-Sept 04	7	0.478				0.361	1.345	4	Wang et al., 2005	Effluent of second treatment stage
China, Tianjin - after ozonation	Oct 03-Sept 04	7	0.392				0.240	0.478	4	Wang et al., 2005	Effluent of third treatment stage
Japan - POTW Effluent	N/A						<0.2	4.9	4	Mitsubishi Chemical, 1998	
Japan - POTW Influent	N/A						2.6	40	4	Mitsubishi Chemical, 1998	
Japan - Sewage inflow; Tama and Yodo Rivers	late 1998	10	27		27		11	48	2	MOC, 1999a and c	9 sewage treatment plants
Japan - Sewage inflow - 27 plants: Tohoku to Kansai Districts	winter 1999				15		5.6	37	2	Nasu et al., 2001	Detected at all 18 sites
Japan - Sewage inflow; Tama and Yodo Rivers	summer 1999	9	10.9		4.4		2.1	25	2	MOC, 1999a and c	9 sewage treatment plants
Japan - Sewage plant effluent; Tama and Yodo Rivers	early 1998	10	1.3		0.6		<0.2	4.9	2	MOC, 1999a and c	9 sewage treatment plants; detected at 5 of 10 sites
Japan - Sewage plant effluent; Tama and Yodo Rivers	late 1998	10	1.6		1.5		<0.2	4.0	2	MOC, 1999a and c	9 sewage treatment plants; detected at 7 of 10 sites
Japan - Sewage effluent - 27 plants: Tohoku to Kansai Districts	winter 1999				0.4		<0.2	6.2	2	Nasu et al., 2001	Detected at 7 of 18 sites
Japan - Sewage plant effluent; Tama and Yodo Rivers	summer 1999	9	0.5		0.2		<0.2	1.9	2	MOC, 1999a and c	9 sewage treatment plants; detected at 2 of 9 sites
Japan - Tokyo - influent sewage	N/A						6.9	31	4	cited in Suzuki, et al. 2001	
Japan - Tokyo - effluent sewage	N/A						<0.2	<0.2	4	cited in Suzuki, et al. 2001	
		81	**5.5**				**<0.2**	**48**			
Other											
Australia, South East Queensland - WWTP influent	2004 (Nov)	1	0.001			<0.002			4	Tan et al., 2008	
Australia, South East Queensland - WWTP influent	2005 (March)	1	2.380			2.380			4	Tan et al., 2008	
Nigeria, Obafemi Awolowo University; sewage lagoon	2002-2003	30	124,500		73,125		16,150	400,190	3	Ogunfowokan et al., 2006	Monthly samples for 8 months

Sludge — Concentration in ug/kg dry weight

Location	Date	N	Average	SD	Median	Single Point	Range Low	Range High	Data Quality	Reference	Comments
USA											
Albuquerque-Methanogenic Sludge	1987						71,000	89,000	4	Eiceman et al, 1989	Ref'd in summary doc
Chicago Sludges	N/A							215,000	4	Webber and Lasage, 1989	dry wt., in O'Connor, 1996
Michigan Sludges- 204 samples	NA				168,000		420	58,300,000	4	Webber and Lasage, 1989	reported in O'Connor, 1996
Municipal WWTP biosolids - 7 states	2003-2005	15	4,631	5,061	3,300		340	20,000	1	Kinney et al., 2006	Dry wt.; ave organic carbon = 279 mg/g
US Sludges-40 Locations	N/A				84,000		<1000	1,180,000	4	Webber and Lasage, 1989	reported in O'Connor, 1996
US Sludge	82-92	16	300,839	567,825	93,000				4	ATSDR Hazdat, 1998	
		31	**157,513**				**340**	**58,300,000**			
California, Playa del Rey - Hyperion wastewater treat. plant	N/A					3,100			4	Gavala et al., 2003	Units are ug/L; industrial source
Fly ash	N/A		94,000				310	500,000	4	Carroll and Oberacker, 1989 (EPA/600/D-89/232)	
Incinerator Ash	1987						7	7,400	4	Shane et al, 1990	
US Tissues-LOD/2^1/2	N/A	1027	5,412	32,943	566		7	500,000	4	Nat'L Sed Quality DB, 1998	
US Tissues>LOD	N/A	185	15,252	62,126	2,200		31	500,000	4	Nat'L Sed Quality DB, 1998	

Central Europe/UK										
Baden-Wurttemberg-Methanogenic	1987					15,000	70,000	4	CLUA Offenburg, 1987	in ECPI
Baden-Wurttemberg-Primary Sl.	1987					15,000	70,000	4	Schonberger, 1990	in ECPI; appears to be potential duplicate
Belgium - Roeselare; WWTP	2001	6	19,800		20,700	10,870	25,310	4	ECPI, 2001	dry wt.
Darmstadt-Methanogenic Sludge	1983	1	84,000			76,000	97,000	4	Faltin et al, 1985	in ECPI
Darmstadt-Primary Sludge	83-84					1,200	9,100	4	Faltin et al, 1985	in ECPI
Darmstadt-Primary Sludge	1983	1	73,000			65,000	80,000	4	Faltin et al, 1985	in ECPI
Darmstadt-Secondary Sludge	1983	1	112,000			71,000	141,000	4	Faltin et al, 1985	in ECPI
France , Toulouse - Ginestous treatment plant	N/A	1	162,110			155,370	171,630	4	Sablayrolles et al. 2005	dry wt.
France, Marne Aval - WWTP, centrifuged sludge	2006 (May)	10	72,100	22,300				1	Dargnat et al., 2009	dry wt.
German Sludge- SF extraction	N/A	1	27,000	810				4	Kolb et al, 1997	
German sludge-100 day digestion	N/A	1	14,500	300				4	Kolb et al, 1997	
German sludge-100 day digestion	N/A	1	13,400	250				4	Kolb et al, 1997	
German sludge-25 day digestion	N/A	1	18,300	310				4	Kolb et al, 1997	
German sludge-25 day digestion	N/A	1	17,500	230				4	Kolb et al, 1997	
German sludge-25 day digestion	N/A	1	17,900	420				4	Kolb et al, 1997	
German Sludge-shake extraction	N/A	1	25,800	670				4	Kolb et al, 1997	
Germany-sludge with lime	N/A	1	20,000		14,000	4,000	61,000	4	Merkel, et al, 1996	
Germany-sludge without lime	N/A	1	48,000		44,000	12,000	103,000	4	Merkel, et al, 1996	
Germany - Brandenburg; domestic - summer	1993	9	43,000		34,000	4,400	88,000	1	Schnaak and John , 1994	95th percentile = 87700
Germany - Brandenburg; domestic - winter	1994	9	25,000		2,800	810	163,000	1	Schnaak and John , 1994	95th percentile = 109000
Germany - Brandenburg; municipal - summer	1993	11	30,000		24,000	14,000	61,000	1	Schnaak and John , 1994	95th percentile = 54600
Germany - Brandenburg; municipal - winter	1994	11	18,000		12,000	1,310	74,000	1	Schnaak and John , 1994	95th percentile = 55000
Germany - Brandenburg; small industrial - summer	1993	5	17,000		15,000	2,300	47,000	1	Schnaak and John , 1994	
Germany - Brandenburg; small industrial - winter	1994	5	7,600		6,800	40	17,000	1	Schnaak and John , 1994	
Germany -Northeast Bavaria-Primary Sludge	1989	9	179,000	129,000	149,500	66,000	481,000	1	Zurmuhl, 1990	
Germany - 15 sewage sludge samples	1997				67,300	27,900	154,000	4	Fromme, et al. 2002	dry wt.
Germany, Dresden - STP	N/A	1	8,000		8,000			4	Petrovic and Barcelo, 2000	
Manure Sludge-Eco Farming	N/A	1	5,950		5,950			4	Rykfors, 1996	
Netherlands-Sewage Sludge	N/A	7	72,200	58,000				4	Hoogheemraadschap West-Brabant, 1989	in NIBHEP
Netherlands - five different STP	92-93					<5000	185,000	4	Bodar, 1997; cited in NCI, 2000	
Portugal, near Porto - STP	N/A	1	27,000		27,000			4	Petrovic and Barcelo, 2000	
Spain - Catalonia; WWTP anaerobically digested after aerobic dig.	2000	1	232,000		232,000			1	Bago, et al. 2005	dry wt.
Spain - Catalonia; WWTP aerobically digested	2000	4	249,000			140,000	512,000	1	Bago, et al. 2005	dry wt.
Spain - Catalonia; Igualada, Montornes, Abrera STPs	N/A	3	11,600	3,005	10,500	9,300	15,000	4	Petrovic and Barcelo, 2000	
Spain - Seville; 4 WWTPs; primary sludge	2005 (Jan-Oct)	4	53,000			12,000	103,000	4	Aparicio et al., 2009	dry wt.
Spain - Seville; 4 WWTPs; secondary sludge	2005 (Jan-Oct)	4	65,000			34,000	92,000	4	Aparicio et al., 2009	dry wt.
Spain - Seville; 4 WWTPs; anaerobically-digested dehydrated sludge	2005 (Jan-Oct)	4	159,000			13,000	345,000	4	Aparicio et al., 2009	dry wt.
Spain - Seville; 4 WWTPs; compost	2005 (Jan-Oct)	4	75,000			24,000	124,000	4	Aparicio et al., 2009	dry wt.
Switzerland: Primary Sludge	1983					15,000	200,000	4	Dresher-Kaden et al, 1987	in ECPI
Switzerland - domestic	1999?	4	50,467		32,142	23,720	113,864	2	Berset and Etter-Holzer, 2001	
Switzerland - domestic, storm water, small amt. ind.	1999?	6	42,167		30,528	21,055	111,040	2	Berset and Etter-Holzer, 2001	
Switzerland - domestic, storm water, lrgr amt. ind.	1999?	2	79,839		79,839	53,242	106,436	2	Berset and Etter-Holzer, 2001	
UK - Manchester, Sewage Sludge	N/A				2			4	WHO, 1992	Incorrect units?
UK - Ashford, mesophilic anaerobically dig. dewatered from WWTP	N/A	1	62,482		62,482			1	Gibson et al., 2005	
UK - Petersfield, Hampshire; rural town sewage treatment works	2001-2002	32	30,200	17,200				4	Oliver et al., 2005	Dry wt.; raw sludge - thickened primary sed. tank & humus tank sludges
Northern Europe										
Bekkelaget Plant Sludge	1996				113,000			1	NIVA, 1996	ug/kg
Fuglevik Plant Sludge	1996				96,000			1	NIVA, 1996	ug/kg
Denmark - Aalborg East municipal WWTP, dewatered sludge	N/A	3	67,180	9280		61,370	77,880	4	Roslev et al., 2007	Dry wt. basis
Denmark - Avedore	1992	1	48,000					4	Gruttner and Vikelsoe, 1996; cited in NCI, 2000	Significant industrial load
Denmark - Avedore	1995					2,300	46,000	4	Gruttner et al., 1995; cited in NCI, 2000	
Denmark - Skaevinge	1992	1	45,000					4	Gruttner and Vikelsoe, 1996; cited in NCI, 2000	Low industrial load
Denmark - Skaevinge	1994					17,000	18,000	4	Kjolholt et al., 1995; cited in NCI, 2000	
Denmark - Skaevinge	1995					900	44,000	4	Gruttner et al., 1995; cited in NCI, 2000	
Denmark - Marselisborg	1992	1	47,000					4	Gruttner and Vikelsoe, 1996; cited in NCI, 2000	Significant industrial load
Denmark - Marselisborg	1994					37,000	41,000	4	Kjolholt et al., 1995; cited in NCI, 2000	
Denmark - Marselisborg	1995					1,700	189,000	4	Gruttner et al., 1995; cited in NCI, 2000	
Denmark - Herning	1994					38,000	120,000	4	Kjolholt et al., 1995; cited in NCI, 2000	
Denmark - Herning	1995	1	23,000		23,000			4	Krogh et al., 1996; cited in NCI, 2000	
Denmark - Ringkoping	1995	1	14,000		14,000			4	Krogh et al., 1996; cited in NCI, 2000	
Denmark - 6 sites	96-97	6	25,000			9,000	49,000	4	Boutrup et al., 1998; cited in NCI, 2000	
Denmark - Roskilde WWTP - primary sludge	May-99	1	61,110	3,200	61,110			4	Fauser et al., 2001	Dry wt. basis
Denmark - Roskilde WWTP - secondary sludge	May-99	1	3,510	30	3,510			4	Fauser et al., 2001	Dry wt. basis
Denmark- Sewage Sludge	N/A	1	170,000			25,000	2,600,000	4	Gruttner, et al, 1994; Linusson, 1992	in KEMI
Denmark- Sewage Sludge	N/A	20	37,860		24,500	3,900	170,000	4	Rykfors, 1996	
Denmark - Manure Sludge-Danish Farming	N/A	1	4,600		4,600			4	Rykfors, 1996	
Denmark - Sewage sludge	1998-2000					27,000	55,000	4	Petersen et al., 2003	Dry wt.
Finland, Virrat - raw sewage sludge	N/A	1	57,000		57,000			2	Marttinen et al., 2004	Dry wt.
Finland, Jyvaskyla - anaerobically digested sludge	N/A	1	77,000		77,000			2	Marttinen et al., 2004	Dry wt.
Finland, 4 STPs - prim., sec., digested sludge	1998-2001					91,000	203,000	2	Marttinen et al., 2003a	Dry wt.
Finland, Espoo STP - secondary, combined & treated sludge	N/A	8	157,000			134,000	180,000	2	Marttinen et al., 2003b	Dry wt.
Norway - Sewage Sludge	N/A	1	134,000	150,000		27,100	594,300	4	Blom, 1993	Dry Wt., in KEMI
Norway - Fugelvik	1996	1	96,000		96,000			4	Braaten, 1996; cited in NCI, 2000	
Norway - Bekkelaget	1996	1	95,800		113,000			4	Braaten, 1996; cited in NCI, 2000	
Norway - Sewage Sludge	N/A				58,000	<1000	140,000	4	Paulsrud et al. 2000; cited in Langenkamp and Part, 2001	Dry wt.; 36 samples
Norway - Sewage Sludge	1989				83,000	27,000	1,115,000	4	Vigerust, 1989; cited in Langenkamp and Part, 2001	Dry wt.; 19 samples
Sweden - Sewage Sludge	N/A	1	247,000	209,000		54,700	660,700	4	Blom, 1993	Dry Wt., in KEMI
Sweden - 6 sites	1988	1	144,000			76,000	285,000	4	Swedish EPA, 1992; cited in NCI, 2000	Municipal sewage sludge
Swedish Activated Sludge	89-91	1	174,000			25,000	462,000	4	SNV Report 3514, 1988	secondary ref
Swedish Sewage Sludge	N/A					25,000	600,000	4	Lundberg, 1994	in Parkman and Remberger
Sweden, Stockholm (Henriksdal)	1989	1	67,000		67,000			4	Stockholm Vatten, 1990; cited in NCI, 2000	
Sweden, Stockholm (Henriksdal)	1991	1	93,000		93,000			4	Stockholm Vatten, 1990; cited in NCI, 2000	
Sweden, Malmo (Klagshamn)	91-96	1	105,000			0	240,000	4	Henriksson, 1997; cited in NCI, 2000	
Sweden, Malmo (Klagshamn)	91-96	1	49,000			18,000	116,000	4	Henriksson, 1997; cited in NCI, 2000	
Veas Plant Sludge	1996				78,500			1	NIVA, 1996	ug/kg
		225	**58,594**			**2**	**2,600,000**			
Belgium - Negenmanneke; WWTP, domestic	2002	3	3		4	1	5	4	ECPI, 2002	Units are ug/L
Denmark - Compost	1998-2000				18,000			4	Petersen et al., 2003	Dry wt.
Denmark - Pig manure	1998-2000				400			4	Petersen et al., 2003	Dry wt.
Denmark, Lyngby - Lundtofte munic. wastewater treatment plant	N/A				1,050			4	Gavala et al., 2003	Units are ug/L;
Germany - liquid manure	1997					410	>5300	4	Fromme, et al. 2002	ug/kg dry wt.
Stockholm Sewage Sludge	1989	1	116,000		116,000			3	Kirchmann and Tengsved, 1991	
Darmstadt Street Runoff	83-84	1	31,000					4	Faltin et al, 1985	in ECPI; Units appear to be mg/Kg (similar to sludge data)
Household Compost	N/A				15,000			4	Rykfors, 1996	
Liquid Manure-Danish Farming	N/A				281			4	Rykfors, 1996	
Liquid Manure-Eco Farming	N/A				244			4	Rykfors, 1996	

Canada										
Canada: Primary Sludge	<1981	1	19,000			11,000	220,000	4	Dresher-Kaden et al, 1987	digested sludge, in ECPI
Canadian Sludges	93-94	1	163,000			64,000	244,000	2	Webber et al, 1996	raw sludge; concern of duplication as average is equal
Sewage Sludge-Canada	93-94	72	150,000	50,400		33,000	440,000	4	Webber and Nichols, 1995	reported in O'Connor, 1996
Hamilton Sludge	81-83	4	80,750			26,000	137,000	4	Webber and Lesage, 1989	
Winnipeg Sludge	80-85	6	64,833			3,000	176,000	4	Webber and Lesage, 1989	
Vancouver area; 5 wastewater treatment plants	1999 (Mar-Aug)	20	2,700	2,700		<20	11,000	4	Bright and Healey, 2003	Det. in 17 of 20 samples; 95th perc = 7600
		104	**112,962**			**<20**	**440,000**			
Canadian Sludges	80-85	15			80,000	3,000	215,000	4	Webber and Lesage, 1989	11 Locations; believed to be duplicate of raw data above
Hamilton Sludge	80-85		68,000					4	Webber and Lesage, 1989	digested sludge, in O'Connor, 1996; used raw data above
Hamilton Sludge	80-85		85,000			26,000	137,000	4	Webber and Lesage, 1989	raw sludge, in O'Connor
Winnipeg Sludge	80-85		89,000			21,000	176,000	4	Webber and Lesage, 1989	in O'Connor, 1996
Winnipeg Sludge	80-85		16,000			3,000	29,000	4	Webber and Lesage, 1989	in O'Connor, 1996
Montreal, PQ - municipal WWTP homogenized sludge	2005 (March)		80,000				80,000	3	Barnabe et al., 2008	
PQ - municipal WWTPs - primary sludge	2005 (March)	3	74,000		80,000	53,000	89,000	3	Beauchesne et al., 2008	Dry wt?
PQ - municipal WWTPs - secondary sludge	2005 (March)	5	114,000		65,000	39,000	346,000	3	Beauchesne et al., 2008	Dry wt?
PQ - municipal WWTPs - thickened sludge	2005 (March)	3	61,000		54,000	44,000	86,000	3	Beauchesne et al., 2008	Dry wt?
PQ - municipal WWTPs - digested sludge	2005 (March)	3	40,000		40,000	26,000	54,000	3	Beauchesne et al., 2008	Dry wt?
PQ - municipal WWTPs - dewatered sludge	2005 (March)	5	77,000		63,000	46,000	119,000	3	Beauchesne et al., 2008	Dry wt?
PQ - municipal WWTPs - dried sludge	2005 (March)	1	15,000		15,000			3	Beauchesne et al., 2008	Dry wt?
Japan/Asia										
China, Beijing - Gaobeidian WWTP	1998-99	1	108,000		108,000			4	Cai et al., 2007a	Activated sludge treatment; 50% domestic, 50% industrial sewage
China, Lanzhou - Qilihe WWTP	1998-99	1	14,000		14,000			4	Cai et al., 2007a	Anaerobic-aerobic oxidization treatment
China, Xi'an - Beishiqiao WWTP	1998-99	1	11,000		11,000			4	Cai et al., 2007a	Anaerobic-aerobic oxidization treatment
China, Wuxi - Lucun WWTP	1998-99	1	20,000		20,000			4	Cai et al., 2007a	Activated sludge treatment
China, Guangzhou - Datansha WWTP	1998-99	1	4,400		4,400			4	Cai et al., 2007a	Anaerobic-aerobic oxidization treatment; 60% domestic, 40% ind. sewage
China, Foshan - Zhen'an WWTP	1998-99	1	0.25		<0.49			4	Cai et al., 2007a	Anaerobic-aerobic oxidization treatment; 90% domestic, 10% ind. sewage
China, Zhuhai - Xiangzhou WWTP	1998-99	1	0.25		<0.49			4	Cai et al., 2007a	Oxidizing ditch treatment; 65% domestic, 35% industrial sewage
China, Shenzhen - Binhe WWTP	1998-99	1	6,600		6,600			4	Cai et al., 2007a	Oxidizing ditch treatment; 60% domestic, 40% industrial sewage
China, Dapu - Dapu WWTP	1998-99	1	28,000		28,000			4	Cai et al., 2007a	Activated sludge treatment
China, Shatian - Shatian WWTP	1998-99	1	20,000		20,000			4	Cai et al., 2007a	Activated sludge treatment
China, Yuanlang - Yuanlang WWTP	1998-99	1	21,000		21,000			4	Cai et al., 2007a	Activated sludge treatment
Japan: Primary Sludge	1974	1	48			8	170	4	Kubota, 1979; Tomita et al, 1977	480 ug/kg is avg sed value in Kubota
Taiwan, Northern - Min-Shen, De-Hwa, Ba-Li - 3 STPs	NA	3	133,000		143,000	105,000	153,000	4	Cheng et al., 2001	Dry wt; aerobically and anaerobically digested
Taiwan, Northern - Min-Shen, De-Hwa, Ba-Li, Nei-Hu - 4 municipal STPs	NA					105,000	333,130	4	Cheng et al., 2008	
Taiwan - industrial sludge	NA					<1740	150,000	4	Cheng et al., 2008	Max. is approx.- read from bar graph
		15	**42,137**			**<0.49**	**333,130**			
China - composted municipal sludge	N/A	1	16,000		16,000			4	Cai et al., 2007b	Manual-turned composting
China - composted municipal sludge	N/A	1	12,000		12,000			4	Cai et al., 2007b	Inoculate-manual-turned composting
China - composted municipal sludge	N/A	1	8,100		8,100			4	Cai et al., 2007b	Continuously aerated composting
China - composted municipal sludge	N/A	1	9,600		9,600			4	Cai et al., 2007b	Intermittently aerated composting
Other										
Australia, South East Queensland - WWTP raw influent	2005 (March)	1	20300		20300			4	Tan et al., 2008	
Australia, South East Queensland - WWTP anaerobic sludge	2004 (Nov)	1	2730		2730			4	Tan et al., 2008	
Australia, South East Queensland - WWTP anaerobic sludge	2005 (March)	1	461		461			4	Tan et al., 2008	
Australia, South East Queensland - WWTP aerobic sludge	2004 (Nov)	1	3430		3430			4	Tan et al., 2008	
Australia, South East Queensland - WWTP aerobic sludge	2005 (March)	1	1260		1260			4	Tan et al., 2008	
Australia, South East Queensland - WWTP anoxic sludge	2004 (Nov)	1	1680		1680			4	Tan et al., 2008	
Australia, South East Queensland - WWTP anoxic sludge	2005 (March)	1	734		734			4	Tan et al., 2008	
Australia, Melbourne Sewage	1994	1	26	15		5	68	4	Wilkie, et al, 1996	
Australia, Melbourne Treatment Inf	1994	1	67					4	Wilkie, et al, 1996	
Morocco - lagooning sludge	N/A	1	28,670		28,670			4	Amir et al., 2004	
Morocco - activated sludge	N/A	1	6,260		6,260			4	Amir et al., 2004	
Activated Sludge	1983						11	4	Hornig et al, 1984	in ECPI
Industrial Sludge	1980		67,000					4	Dresher-Kaden et al, 1987	in ECPI
Pilot Plant Activated Sludge	82-83				4,400,000			4	Hannah et al, 1986	in ECPI
Pilot Plant-Primary Sludge	82-83				5,600			4	Hannah et al, 1986	in ECPI
Primary Sludge	1989					70,000	100,000	4	Frank et al, 1990	in ECPI
Primary Sludges	1989					1,000	1,000,000	4	Schonberger, 1990	in ECPI
Primary Sludges	1980		1,250,000			420	58,000,000	4	in ECPI summary	
Primary Sludges	1982		109,000			4,100	270,000	4	Naylor, 1982;Dresher-Kaden et al, 1987	in ECPI
Primary Sludges	1983		185,000					4	Fricke, 1985	in ECPI
Primary Sludges	1983		1,170,000					4	Fricke, 1985	in ECPI
Primary Sludges	1981		43,000					4	Schonberger, 1990	in ECPI
Primary Sludges	1984		84,000			76,000	97,000	4	Schonberger, 1990	in ECPI
Primary Sludges	1981					40	940,000	4	Dresher-Kaden et al, 1987	in ECPI
Primary Sludges	1981					9,000	940,000	4	Dresher-Kaden et al, 1987	in ECPI
Primary Sludges	1978		158,000					4	Dresher-Kaden et al, 1987	in ECPI
Primary Sludges	1981		51,000					4	Dresher-Kaden et al, 1987	in ECPI
Primary Sludges	1981		28,000					4	Dresher-Kaden et al, 1987	in ECPI
Primary Sludges	<1981		220,000			39,000	960,000	4	Dresher-Kaden et al, 1987	in ECPI
Primary Sludges	<1988					2,000	60,000	4	Dresher-Kaden et al, 1987	in ECPI
Primary Sludges	<1983					120,000	600,000	4	Dresher-Kaden et al, 1987	in ECPI
Sewage Sludge	N/A		75,000			55,000	300,000	4	EPA, 1990d	
Sewage Sludge	91-92	8	120,000			21,000	225,000	1	Furtmann, 1993	ug/kg, dry wt.
Sewage Sludge-Eur, US, Canada	N/A		45,000	38,000		17,000	900,000	4	Kjolholt and Vang Anderson, 1995	KEMI
Sludge Plant-Dried Activated Sl.	1982		29,000			10,000	48,000	4	Arendt et al, 1983	in ECPI
Sludge Plant-Methanogenic Sludge	1990		181,000					4	Weisser et al, 1991	in ECPI
Sludge Plant-Primary Sludge	1990		193,000					4	Weisser et al, 1991	in ECPI
Sludge Plant-Primary Sludge	87-90		134,000			69,000	320,000	4	Weisser et al, 1991	in ECPI
Sludge Plant-Primary Sludge	1982					<2400	43,000	4	Arendt et al, 1983	in ECPI
Sludge Plant-Primary Sludge	1982		37,000			3,900	51,000	4	Arendt et al, 1983	in ECPI

Consumer Products

Concentration in ug/g

Location/Type	Date	N	Average	SD	Median	Single Point	Range Low	Range High	Data Quality	Reference	Comments
Japan/Asia											
China - bathing lotion	N/A	1	0.05			<0.1			4	Shen et al., 2007	
China - hair spray	N/A	1	34.85			34.85			4	Shen et al., 2007	
China - perfume	N/A	2	19.99				15.28	24.69	4	Shen et al., 2007	
China - deodorant	N/A	1	18.28			18.28			4	Shen et al., 2007	
China - shampoo	N/A	2	14.01				13.28	14.74	4	Shen et al., 2007	
China - nail polish	N/A	1	12.54			12.54			4	Shen et al., 2007	
China - cream	N/A	4	3.68		<0.1		<0.1	14.56	4	Shen et al., 2007	Detected in 1 of 4 samples
China - milk cleanser	N/A	2	18.26				17.56	18.96	4	Shen et al., 2007	
China - shrinking solution	N/A	1	114.6			114.6			4	Shen et al., 2007	
		15	**19.97**				**<0.1**	**114.6**			

Concentration in % w/w

Location/Type	Date	N	Average	SD	Median	Single Point	Range Low	Range High	Data Quality	Reference	Comments
Europe											
Austria, Germany, Switzerland - PVC toys and childcare products	2007 (Jan-June)	35	23				0.2	42	4	Biedermann-Brem et al., 2008	Det. In 35 of 252 samples; conc. are for detected samples only
		35	**23**				**0.2**	**42**			

Vegetation

Concentration in ug/kg dry weight

Location/Type	Date	N	Average	SD	Median	Single Point	Range Low	Range High	Data Quality	Reference	Comments
Denmark - Barley grain	1998-2000	10	50				<100	<100	4	Petersen et al., 2003	Grown in soil amended with sludge (400 to 55000 ug/kg DEHP) for 3 y
Denmark - Barley stem & leaves	1998-2000	10	203		104		65	787	4	Petersen et al., 2003	Grown in soil amended with sludge (400 to 55000 ug/kg DEHP) for 3 y
Grass - Germany, Hueckenlock, Suderelbe	1986						7100	10200	4	Jacobs and Mofid, 1988; cited in NCI, 2000	
Grass - Germany, Harburger Hafen, River Elbe	1986						3200	5500	4	Jacobs and Mofid, 1988; cited in NCI, 2000	
Grass - Germany, Niedersachsen	1985						1200	2500	4	Jacobs and Mofid, 1988; cited in NCI, 2000	
Reed - Germany, Hueckenlock, Suderelbe, River Elbe	1986						2300	7500	4	Jacobs and Mofid, 1988; cited in NCI, 2000	Above ground parts
Straw - Germany	1986					2800			4	Jacobs and Mofid, 1988; cited in NCI, 2000	
Leaves - Germany	1986					11300			4	Jacobs and Mofid, 1988; cited in NCI, 2000	
Leaf-Japan	N/A						670	810	4	Yano, 1979	
		20	**127**				**65**	**11300**			

Concentration in ug/kg wet weight

Location/Type	Date	N	Average	SD	Median	Single Point	Range Low	Range High	Data Quality	Reference	Comments
Grasses, sugar beet leaves, maize, kale - Netherlands	1999	53	55				<10	179	1	David and Sandra, 2001	wet wt; 20 locations, different seasons; ave dry mass = 25.28%
Cattle feed - Netherlands	1999	2	18.5				<10	32	1	David and Sandra, 2001	wet wt; 2 locations, ave dry mass =93.5%
		55	**54**				**<10**	**179**			
Plankton - Japan	1974				<50		<50	6300	4	Japan MOE, 2003	Detected in 1 of 4 samples; det. limit of 50 ppb

Wildlife

Concentration in ug/kg wet weight

Location/Type	Date	N	Average	SD	Median	Single Point	Range Low	Range High	Data Quality	Reference	Comments
Japan - Carp	1999?						<25	260	4	JEA, 1999	Detected in 88 of 145 samples
Japan - Domestic pigeons	1999?				<25		<25	3290	4	JEA, 1999	Detected in 3 of 31 samples
Japan - Red mice	1999?				<25		<25	390	4	JEA, 1999	Detected in 2 of 30 samples
Japan - Racoon dogs	1999?						<25	363,000	4	JEA, 1999	Detected in 10 of 15 samples
Japan - Cormorant eggs	2000	10	12.5				<25	<27	4	Japan MOE, 2001b	Detected in 0 of 10 samples
Japan - Cormorant chicks (pectoral muscle)	2000	30	57		29		<4.2	410	4	Japan MOE, 2001b	Detected in 20 of 30 samples
Japan - Cormorant, farm-raised (pectoral muscle)	2000	5	35		13		<7	100	4	Japan MOE, 2001b	Detected in 4 of 5 samples
Japan - Horse mackerel	2000	1	1.1			<2.2			4	Japan MOE, 2001b	Not detected in the 1 sample tested
Japan - Raptors - Black kite (pectoral muscle)	2000	20	92		60		<2.3	310	4	Japan MOE, 2001b	Detected in 19 of 20 samples
Japan - Raptors - others (pectoral muscle)	2000	24	85		80		<4.4	270	4	Japan MOE, 2001b	Detected in 13 of 24 samples
Korea - Amphibians	N/A						ND	301	4	Choi et al., 2001	Wet wt.; 31 samples, detected in 37.1% samples
UK - sheep muscle - grazed on pasture amended with sewage sludge	1998-2000	3	2000						1	Rhind et al., 2005	Wet wt; 34% dry matter
UK - sheep muscle - grazed on pasture treated with inorganic fert.	1998-2000	3	1700						1	Rhind et al., 2005	Wet wt; 34% dry matter
USA - West Virginia- smallmouth bass blood-plasma	2004 (May-Oct)	30	803	1118			216	6320	4	Chambers & Leiker, 2006	Results not corrected for blanks
		126	**326**				**<2.2**	**363,000**			
Greenland - Polar bear liver	1999-2002						133.9	151.2	3	Vorkamp et al., 2004	Not corrected for blanks
Greenland - Minke whale liver	1998					86.2			3	Vorkamp et al., 2004	Not corrected for blanks
Faroe Islands - Pilot whale liver	2001						81.2	133.9	3	Vorkamp et al., 2004	Not corrected for blanks
Greenland , east - Ringed seal liver	2002						99.8	136.2	3	Vorkamp et al., 2004	Not corrected for blanks
Greenland, west - Ringed seal liver	2002						74.6	160.7	3	Vorkamp et al., 2004	Not corrected for blanks
Greenland , east - Shorthorn sculpin liver	2002						107.5	121.9	3	Vorkamp et al., 2004	Not corrected for blanks; lipid = 12.53 to 15.47%
Greenland , west - Shorthorn sculpin liver	2002					91.8			3	Vorkamp et al., 2004	Not corrected for blanks; lipid = 10.43 to 12.27%
Faroe Islands - Northern fulmar - fat tissue	1998-1999						120.0	145.2	3	Vorkamp et al., 2004	Not corrected for blanks; lipid = 56.9 to 69.31%

Human Plasma

Concentration in ug/mL

	Date	N	Geo.Mean/Ave.	SD	Median	Single Point	Range Low	Range High	Data Quality	Reference	Comments
India, Hyderabad - adult women (mean age 30.9 y)	2005	135	0.48	0.77					4	Reddy et al., 2006	
Italy, Brindisi - Maternal sample (age 23 to 42 y)	N/A	24	1.15	0.81					4	Latini et al. 2003a	Detected in 70.8% of samples; ave. is of detected values only
Italy, Brindisi - Cord sample (gestational age 35 to 42 weeks)	N/A	25	2.05	1.47					4	Latini et al. 2003a	Detected in 44% of samples; ave. is of detected values only
Italy, Brindisi - Cord sample (gestational age 27 to 42 weeks)	N/A	84	1.19	1.15			0	4.71	4	Latini et al. 2003b	Detected in 65 of 84 samples
Japan, Tokyo - Adults age 22 to 28 years	N/A	6	0.0125				<0.025	<0.025	1	Inoue et al., 2003	
Japan - Adults age 28 to 34 years	N/A	4	0.0018				<0.0029	<0.0039	2	Takatori et al., 2004	Blood serum; limit of quant. = 0.014 ug/ml
Japan, Osaka - adult males prior to cardiac surgery	N/A	16	0.119						4	Takahashi et al., 2008	

Europe - 17 countries; 47 volunteers (male and female)	Dec. 2003	45	0.236	0.247	0.16	0.037	1.2	1	WWF-UK, 2004	Whole blood; 0.25% lipid; detected in all 45 samples; 90th perc. = 0.52
Puerto Rico, San Juan - girls 6 mos to 8 y with thelarche	1994-1998					ND	2.098	1	Colon et al., 2005	Det. in 25 of 41 samples; det. limit not reported; min. det. conc. = 0.187 ug/mL
Puerto Rico, San Juan - girls 6 mos to 10 y - control patients	1994-1998					ND	0.719	1	Colon et al., 2005	Det. in 5 of 35 samples; det. limit not reported; min. det. conc. = 0.276 ug/mL
Sweden - women age 23 to 39 y; 3 to 4 wks after giving birth	2001	36	0.0059	0.021	<0.001	<0.001	0.129	4	Hogberg et al., 2008	Detected in 17 of 36 samples; det. limit =0.001 ug/mL; 75th perc = 0.0027
		375	**0.68**			**<0.001**	**4.71**			
Japan, Osaka - adult males after cardiac surgery with DEHP-tubing	N/A	8	2.094	1.046				4	Takahashi et al., 2008	
Japan, Osaka - adult males after cardiac surgery without DEHP-tubing	N/A	8	0.472	0.141				4	Takahashi et al., 2008	Some materials used in surgery contained DEHP.
India, Hyderabad - infertile adult women with Stage I endometriosis	2005	35	1.49	1.48				4	Reddy et al., 2006	
India, Hyderabad - infertile adult women with Stage II endometriosis	2005	26	1.78	1.68				4	Reddy et al., 2006	
India, Hyderabad - infertile adult women with Stage III endometriosis	2005	14	1.51	1.08				4	Reddy et al., 2006	
India, Hyderabad - infertile adult women with Stage IV endometriosis	2005	10	4.39	3.22				4	Reddy et al., 2006	

Human Urine

	Date	N	Geo.Mean/Ave.	SD	Median	Single Point	Range Low	Range High	Data Quality	Reference	Comments
Concentration in ug/L											
Korea - children age 11-12 y	2003 (May)	150	9.5	8			<4	19.8	4	Koo and Lee, 2005	Max. conc. is the 95th percentile; detected in 149 samples
Korea - women age 20-73 y	2003 (May)	150	12.5	17			<4	23.4	4	Koo and Lee, 2005	Max. conc. is the 95th percentile; detected in 147 samples
		300	**11**				**<4**	**23.4**			
Concentration as ug/g creatinine											
Korea - children age 11-12 y	2003 (May)	150	7.8					20.8	4	Koo and Lee, 2005	Max. conc. is the 95th percentile; detected in 149 samples
Korea - women age 20-73 y	2003 (May)	150	16					41.1	4	Koo and Lee, 2005	Max. conc. is the 95th percentile; detected in 147 samples
		300	**12**					**41.1**			