

Results of 1998 Research on Effects of Endocrine Disrupting Chemicals on Wildlife (Bears-1)

(Concentration per wet weight)

No.					1											2	3					
SPEED'98 No.					2											4	12					
No.	Specimen collection site	Gender (M: Male, F: Female)	Age (A: Adult, Jv: Juvenile)	Sample	Lipid	Polychlorinated biphenyls (PCBs)											Hexachlorobenzen (HCB)	Hexachlorocyclohexane				
						Chlorinated biphenyl	Dichloro biphenyl	Trichloro biphenyl	Tetrachloro biphenyl	Pentachloro biphenyl	Hexachloro biphenyl	Heptachloro biphenyl	Octachloro biphenyl	Nonachloro biphenyl	Decichloro biphenyl	PCB total*		α -HCH	β -HCH	γ -HCH	δ -HCH	HCH total*
Unit					$\mu\text{g}/\text{kg-wet}$																	
1	Hokkaido	M	A	Fat	42	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	0
2	Hokkaido	M	A	Fat	52	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	0
3	Hokkaido	M	A	Fat	89	<5	<5	<5	<5	<5	14	<5	<5	<5	<5	14	6	<5	<5	<5	<5	0
4	Hokkaido	M	Jv	Fat	75	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	0
5	Hokkaido	F	A	Fat	84	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	0
6	Gifu Pref.	M	Jv	Fat	84	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	0
7	Gifu Pref.	M	Jv	Fat	84	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	0
8	Gifu Pref.	M	Jv	Fat	67	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	0
9	Gifu Pref.	M	Jv	Fat	78	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	0
10	Gifu Pref.	F	A	Fat	69	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	0
11	Gifu Pref.	F	A	Fat	71	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	0
12	Gifu Pref.	F	A	Fat	68	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	0
13	Gifu Pref.	F	A	Fat	81	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	0
14	Gifu Pref.	F	Jv	Fat	73	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	0
15	Gifu Pref.	F	Jv	Fat	73	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	0
16	Hiroshima Pref.	M	A	Fat	67	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	0
17	Hiroshima Pref.	M	Unknown	Liver	5.3	<1	<1	<1	<1	<1	4	<1	1	<1	<1	5	<2	<2	<2	<2	<2	0

* Calculated on the assumption that values below the limit of detection are counted as 0.

Results of 1998 Research on Effects of Endocrine Disrupting Chemicals on Wildlife (Bears-2)

(Concentration per wet weight)

No.	Specimen collection site	Gender (M: Male, F: Female)	Age (A: Adult, Jv: Juvenile)	Sample	Lipid	4		5	6		7		8				9	10	11	12	13	14	15	16				
						SPEED'98 No.					14		15	16	18		19				23	25	26	43	33	34		
						Chlordane		Oxychlordane	trans-Nonachlor	cis-Nonachlor	DDT		DDE and DDD				Dieldrin	Heptachlor	Heptachlor epoxide	Benzo(a)pyrene	Tributyltin	Triphenyltin	Dibutyltin	Monobutyltin				
						cis-Chlordane	trans-Chlordane				o,p'-DDT	p,p'-DDT	o,p'-DDE	p,p'-DDE	o,p'-DDD	p,p'-DDD												
				Unit	%	$\mu\text{g/kg-wet}$																						
1	Hokkaido	M	A	Fat	42	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<50	<50	<500				
2	Hokkaido	M	A	Fat	52	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<50	<50	<500				
3	Hokkaido	M	A	Fat	89	<5	<5	6	12	<5	<5	<5	<5	23	<5	<5	<5	<5	<5	<5	<50	<50	<50	<500				
4	Hokkaido	M	Jv	Fat	75	<5	<5	108	<5	<5	<5	<5	<5	<5	<5	<5	12	<5	80	<5	<50	<50	<50	<500				
5	Hokkaido	F	A	Fat	84	<5	<5	24	<5	<5	<5	<5	<5	<5	<5	<5	9	<5	17	<5	<50	<50	<50	<500				
6	Gifu Pref.	M	Jv	Fat	84	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<50	<50	<500				
7	Gifu Pref.	M	Jv	Fat	84	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<50	<50	<500				
8	Gifu Pref.	M	Jv	Fat	67	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<50	<50	<500				
9	Gifu Pref.	M	Jv	Fat	78	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<50	<50	<500				
10	Gifu Pref.	F	A	Fat	69	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<50	<50	<500				
11	Gifu Pref.	F	A	Fat	71	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<50	<50	<500				
12	Gifu Pref.	F	A	Fat	68	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<50	<50	<500				
13	Gifu Pref.	F	A	Fat	81	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<50	<50	<500				
14	Gifu Pref.	F	Jv	Fat	73	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<50	<50	<500				
15	Gifu Pref.	F	Jv	Fat	73	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<50	<50	<500				
16	Hiroshima Pref.	M	A	Fat	67	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<50	<50	<500				
17	Hiroshima Pref.	M	Unknown	Liver	5.3	<2	<2	14	<2	<2	<2	<2	<2	<2	<2	<2	2	<2	<2	<2	<200	<200	<1,000	<2,000				

Results of 1998 Research on Effects of Endocrine Disrupting Chemicals on Wildlife (Raccoon dog-1)

(Concentration per wet weight)

NO.						1											2	3					4		5	6	
SPEED'98 No.						2											4	12					14		15	16	
NO.	Specimen collection site	Gender (M: Male, F: Female)	Age	Specimen	Lipid	Polychlorinated biphenyls (PCBs)											Hexachlorobenzene (HCB)	Hexachlorocyclohexane					Chlordane		Oxychlordane	trans-Nonachlor	cis-Nonachlor
						Chlorinated biphenyl	Dichlorobiphenyl	Trichloro biphenyl	Tetrachloro biphenyl	Pentachloro biphenyl	Hexachloro biphenyl	Heptachloro biphenyl	Octachloro biphenyl	Nonachloro biphenyl	Decichloro biphenyl	PCB total*		α-HCH	β-HCH	γ-HCH	δ-HCH	HCH total*	cis-Chlordane	trans-Chlordane			
Unit						%											μg/kg-wet										
1	Hokkaido	M	A	Fat	70	<5	<5	<5	<5	39	68	31	<5	<5	<5	138	<5	<5	54	<5	<5	54	<5	<5	31	20	<5
2	Tokyo	M	A	Fat	73	<5	<5	<5	<5	16	31	<5	<5	<5	<5	47	<5	<5	<5	<5	<5	0	<5	<5	97	87	5
3	Tokyo	M	A	Fat	79	<5	<5	<5	<5	<5	5	<5	<5	<5	<5	5	<5	<5	8	<5	<5	8	<5	<5	70	59	<5
4	Tokyo	F	A	Fat	84	<5	<5	<5	<5	6	28	12	<5	<5	<5	46	<5	<5	<5	<5	<5	0	<5	<5	160	101	6
5	Tokyo	F	A	Fat	65	<5	<5	26	90	178	223	60	<5	<5	<5	577	24	<5	18	<5	<5	18	<5	<5	196	241	19
6	Gifu Pref.	M	A	Fat	80	<5	<5	<5	<5	<5	6	<5	<5	<5	<5	6	<5	<5	6	<5	<5	6	<5	<5	22	11	<5
7	Gifu Pref.	M	A	liver	5.1	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0	<2	<2	<2	<2	<2	0	<2	<2	68	<2	<2
8	Gifu Pref.	M	Y	liver	86	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0	<5	<5	8	<5	<5	8	<5	<5	12	<5	<5
9	Gifu Pref.	M	Jv	Fat, liver	75	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	0	<5	<5	23	16	<5
10	Gifu Pref.	F	A	Fat, liver	44	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	0	<8	<8	<8	<8	<8	0	<8	<8	13	<8	<8
11	Kyoto Pref.	F	A	Fat, liver	—	<5	<5	<5	11	77	218	85	8	<5	<5	399	<5	<5	37	<5	<5	37	<5	<5	42	69	<5
12	Hyogo Pref.	M	Y	Fat, liver	81	<5	<5	<5	<5	46	58	19	<5	<5	<5	123	<5	<5	6	<5	<5	6	<5	<5	19	8	<5
13	Hyogo Pref.	F	A	Fat, liver	85	<5	<5	<5	<5	6	26	5	<5	<5	<5	37	<5	<5	6	<5	<5	6	<5	<5	108	76	<5
14	Hyogo Pref.	F	Y	Fat, liver	89	<5	<5	<5	<5	8	22	5	<5	<5	<5	35	<5	<5	<5	<5	<5	0	<5	<5	115	73	<5
15	Kochi Pref.	F	Y	Fat	88	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5	0	<5	<5	13	9	<5

Age A:Adult, Y:Young, Jv:Juvenile * Calculated on the assumption that values below the limit of detection are counted as 0.

Results of 1998 Research on Effects of Endocrine Disrupting Chemicals on Wildlife (Raccoon dog-2)

(Concentration per wet weight)

NO.	Specimen collection site				Gender (M: Male, F: Female)	Age	Specimen	Lipid	No. 7		No. 8					No. 9	No. 10	No. 11	No. 12	No. 13	No. 14	No. 15	No. 16	No. 17	No. 18	No. 19	No. 20		
									SPEED'98 No. 18		SPEED'98 No. 19					23	25	26	43	33	34			9	11	35	36		
									o,p'-DDT	p,p'-DDT	DDE andDDD					Dieldrin	Heptachlor	Heotachlor epoxide	Benzo(a)pyrene	Tributyltin	Triphenyltin	Dibutyltin	Monobutyltin	Atrazine	CAT (Simazine)	Trifluralin	Alkyl phenol		
		o,p'-DDE	p,p'-DDE	o,p'-DDD	p,p'-DDD	Nonyl phenol	4-t-Octyl phenol	4-n-Octyl phenol																					
Unit								%		$\mu\text{g/kg-wet}$																			
1	Hokkaido	M	A	Fat	70	<5	7	<5	60	<5	<5	14	<5	17	<5	<50	<50	<50	<500	<2	<2	<2	255	37	<1.5				
2	Tokyo	M	A	Fat	73	<5	<5	<5	8	<5	<5	17	<5	23	<5	<50	<50	<50	<500	<2	<2	<2	37	<1.5	<1.5				
3	Tokyo	M	A	Fat	79	<5	<5	<5	<5	<5	<5	12	<5	10	<5	<50	<50	<50	<500	<2	<2	<2	53	<1.5	<1.5				
4	Tokyo	F	A	Fat	84	<5	<5	<5	<5	<5	<5	16	<5	19	<5	<50	<50	<50	<500	<2	<2	<2	94	<1.5	<1.5				
5	Tokyo	F	A	Fat	65	<5	<5	<5	24	<5	<5	29	<5	23	<5	<50	<50	<50	<500	<5	<5	<5	62	2.4	<1.5				
6	Gifu Pref.	M	A	Fat	80	<5	<5	<5	5	<5	<5	<5	<5	<5	<5	<50	<50	<50	<500	<2	<2	<2	212	<1.5	<1.5				
7	Gifu Pref.	M	A	liver	5.1	<2	<2	<2	<2	<2	<2	15	<2	6	<2	<200	<200	<1,000	<2,000	<5	<5	<5	<15	<1.5	<2.5				
8	Gifu Pref.	M	Y	Fat	86	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<50	<50	<50	<500	<2	<2	<2	104	<1.5	<1.5				
9	Gifu Pref.	M	Jv	Fat, liver	75	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<200	<200	<1,000	<2,000	<2	<2	<2	204	<1.5	<1.5				
10	Gifu Pref.	F	A	Fat, liver	44	<8	<8	<8	<8	<8	<8	<8	<8	<8	<8	<200	<200	<1,000	<2,000	<50	<50	<50	2,000	3.4	<7				
11	Kyoto Pref.	F	A	Fat, liver	-	<5	26	<5	12	<5	<5	6	<5	17	<5	<200	<200	<1,000	<2,000	<2	<2	<2	392	1.5	<2				
12	Hyogo Pref.	M	Y	Fat, liver	81	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<200	<200	<1,000	<2,000	<2.5	<2.5	<2.5	41	1.8	<1.5				
13	Hyogo Pref.	F	A	Fat, liver	85	<5	<5	<5	<5	<5	<5	9	<5	7	<5	<200	<200	<1,000	<2,000	<2.5	<2.5	<2.5	28	<1.5	<2.5				
14	Hyogo Pref.	F	Y	Fat, liver	89	<5	<5	<5	<5	<5	<5	<5	<5	12	<5	<200	<200	<1,000	<2,000	<2.5	<2.5	<2.5	57	3.2	<2.5				
15	Kochi Pref.	F	Y	Fat	88	<5	<5	<5	8	<5	<5	<5	<5	<5	<5	<50	<50	<50	<500	<2	<2	<2	57	<1.5	<1.5				

Age A: Adult, Y: Young, Jv: Juvenile

Results of 1998 Research on Effects of Endocrine Disrupting Chemicals on Wildlife (Raccoon dog-3)

(Concentration per wet weight)

NO.	Specimen collection site	Gender (M:Male, F:Female)	Age	Specimen	Lipid	No.	21	22	23	24	25	26	27	28												
						SPEED'98 No.	37	38	39	40	42	45	66													
						Unit	%	$\mu\text{g/kg-wet}$																		
						Bisphenol A		Di-(2-ethylhexyl) phthalate	Butyl benzyl phthalate	Di-n-butyl-phthalate	Diethyl phthalate	Di-2-ethylhexyl adipate	Styrene monomer	Styrene dimers*	1,3-Diphenylpropane	cis-1,2-Diphenylcyclobutane	trans-1,2-Diphenylcyclobutane	2,4-Diphenyl-1-butene	Styrene trimers*	2,4,6-Triphenyl-1-hexane	1a-phenyl-4a-(1-phenylethyl) tetralin	1a-phenyl-4e-(1-phenylethyl) tetralin	1e-phenyl-4a-(1-phenylethyl) tetralin	1e-phenyl-4e-(1-phenylethyl) tetralin	1e,3e,5a-Triphenylcyclohexane	1e,3e,5e-Triphenylcyclohexane
1	Hokkaido	M A	Fat	70	<20	363,000	<40	<100	<40	57,230	48	0	<4	<4	<4	<4	<4	6	6	<4	<4	<4	<4	<4	<4	<4
2	Tokyo	M A	Fat	73	<20	<100	<40	<100	<40	<40	41	0	<4	<4	<4	<4	<4	0	<4	<4	<4	<4	<4	<4	<4	<4
3	Tokyo	M A	Fat	79	<20	150	<40	<100	<40	<40	20	4	4	<4	<4	<4	<4	30	20	<4	<4	<4	<4	5	5	
4	Tokyo	F A	Fat	84	<20	380	<40	<100	<40	<40	26	0	<4	<4	<4	<4	<4	0	<4	<4	<4	<4	<4	<4	<4	
5	Tokyo	F A	Fat	65	<20	66,100	<40	<100	<40	3,170	22	0	<4	<4	<4	<4	<4	12	7	<4	<4	<4	<4	<4	5	
6	Gifu Pref.	M A	Fat	80	<20	5,050	<40	<100	<40	<40	42	0	<4	<4	<4	<4	<4	18	18	<4	<4	<4	<4	<4	<4	
7	Gifu Pref.	M A	Liver	5.1	<20	<200	<40	<100	<40	<40	<2	0	<4	<4	<4	<4	<4	73	58	<4	<4	<4	<4	9	6	
8	Gifu Pref.	M Y	Fat	86	<20	6,400	<40	<100	<40	410	18	0	<4	<4	<4	<4	<4	23	17	<4	<4	<4	<4	6	<4	
9	Gifu Pref.	M Jv	Fat, liver	75	<40	800	<80	<200	<80	<80	39	0	<8	<8	<8	<8	<8	0	<8	<8	<8	<8	<8	<8	<8	
10	Gifu Pref.	F A	Fat, liver	44	<320	7,490	<640	<1,600	<640	<640	240	0	<70	<70	<70	<70	<70	0	<70	<70	<70	<70	<70	<70	<70	
11	Kyoto Pref.	F A	Fat, liver	-	<80	<400	<160	<400	<160	<160	12	0	<20	<20	<20	<20	<20	339	242	<20	12	<20	<20	41	44	
12	Hyogo Pref.	M Y	Fat, liver	81	<100	24,900	<180	<450	<180	<180	11	0	<20	<20	<20	<20	<20	0	<20	<20	<20	<20	<20	<20	<20	
13	Hyogo Pref.	F A	Fat, liver	85	<100	<450	<180	<450	<180	<180	<10	0	<20	<20	<20	<20	<20	0	<20	<20	<20	<20	<20	<20	<20	
14	Hyogo Pref.	F Y	Fat, liver	89	<100	<500	<200	<500	<200	<200	<10	0	<20	<20	<20	<20	<20	0	<20	<20	<20	<20	<20	<20	<20	
15	Kochi Pref.	F Y	Fat	88	<20	71,700	<40	<100	<40	4,960	18	0	<4	<4	<4	<4	<4	0	<4	<4	<4	<4	<4	<4	<4	

Age A:Adult, Y:Young, Jv:Juvenil*Calculated on the assumption that values below the limit of detection are counted as 0.