

## **Appendix E**

### **Trend of Major Pollutant Levels in Wildlife Monitoring**

**(Fiscal Year 1978–1998)**

## Appendix E

### Trend of Major Pollutant Levels in Wildlife Monitoring (Fiscal Year 1978–1998)

Table E-1	Polychlorinated biphenyls (PCB).....
Table E-2	p,p'-Dichlorodiphenyltrichloroethane (p,p'-DDT).....
Table E-3	p,p'-Dichlorodiphenylethylene (p,p'-DDE).....
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Table E-6	cis-Chlordane.....
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# Table E-1 PCB (Fiscal Year 1978-98)

(Fishes)

(Unit: ppm)

Sampling spot	Species	Classification	'78	'79	'80	'81	'82	'83	'84	'85	'86	'87	'88	'89	'90	'91	'92	'93	'94	'95	'96	'97	'98	
Offshore of Kushiro, Hokkaido	Chum salmon	Average	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
		Max.	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Offshore of □Nemuro, □Hokkaido	Angry rockfish	Average	0.03	0.03	0.02	—	—	—	—	—	—	—	—	0.04	0.05	0.02	0.05	0.06	0.11	0.04	0.05	0.02	0.03	0.01
		Max.	0.05	0.04	0.04	nd	nd	nd	nd	nd	nd	0.01	0.03	0.06	0.08	0.04	0.06	0.08	0.12	0.04	0.06	0.03	0.04	0.02
Yamada Bay, □Iwate Pref.	Greenling	Average			—	—	—	—	—	—	—	0.02	0.03	—	—	—	—	—	—	—	—	0.05	—	
		Max.			nd	0.02	0.02	0.03	tr	tr	tr	0.02	0.03	tr	tr	0.01	tr	0.01	tr	0.01	tr	0.01	0.10	nd
Offshore of □Joban □	Pacific saury	Average	0.02	0.01	—	—	—	—	—	—	—	0.14	0.01	—	—	—	—	—	—	—	—	—	—	—
		Max.	0.02	0.01	0.01	nd	nd	nd	nd	nd	nd	tr	0.25	0.02	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Offshore of □Tohoku, □Sea of Japan	Cod	Average			—	—	—	—	—	—	—	—	0.02	0.02	—	—	—	—	—	—	—	—	—	—
		Max.			0.01	0.02	nd	nd	nd	nd	nd	nd	0.02	0.04	0.02	nd	nd	nd	nd	nd	nd	nd	nd	nd
Tokyo Bay	Sea bass	Average	0.34	0.42	0.28	0.75	0.31	0.12	0.11	0.09	0.06	0.15	0.20	0.39	0.13	0.63	0.26	0.25	0.22	0.06	0.12	0.26	0.14	0.16
		Max.	0.50	0.50	0.60	1.03	0.37	0.15	0.15	0.10	0.08	0.18	0.27	0.56	0.17	0.77	0.38	0.29	0.27	0.08	0.14	0.37	0.16	0.16
Osaka Bay	Sea bass	Average			0.68	1.30	0.08	0.62	0.58	0.18	0.15	0.21	0.12	0.48	0.59	0.25	0.47	0.55	0.24	0.19	0.27	0.23	0.25	0.25
		Max.			1.00	1.80	1.10	0.70	0.77	0.19	0.23	0.40	0.15	0.57	0.73	0.39	0.53	0.87	0.33	0.24	0.35	0.28	0.29	0.29
Seto Inland □Sea	Sea bass	Average		0.68	0.32	0.18	1.33	0.49	0.68	0.87	0.46	0.20	0.35	0.09			0.07	0.11	0.04	0.06	0.21	0.07	0.04	0.04
		Max.		0.70	0.50	0.50	2.10	0.99	1.00	1.40	1.00	0.37	0.53	0.13			0.09	0.20	0.05	0.11	0.45	0.10	0.10	0.04
Offshore of □Sanin	Sea bass	Average					0.17	0.12	0.13	0.09	0.07	0.07	0.12	0.08	0.06	0.06	0.08	0.09	0.03	0.02	0.02	0.04	0.03	0.03
		Max.					0.23	0.22	0.16	0.12	0.12	0.13	0.13	0.09	0.06	0.06	0.09	0.11	0.03	0.03	0.03	0.05	0.03	0.03
Mouth of the □Riv. Shimanto	Sea bass	Average							0.28	0.12	0.04	0.08	—	—	0.10	—	—	—	—	—	—	—	—	—
		Max.							0.65	0.28	0.08	0.16	0.02	0.02	0.17	0.02	tr	0.04	tr	tr	0.01	0.03	nd	nd
Surrounding of □Shugen Island	Sea bass	Average													0.03	0.06	0.02	—	0.03	—	0.02	0.05	—	
		Max.													0.04	0.13	0.03	0.01	0.04	0.04	0.03	0.07	0.02	
West Coast of Satsuma Peninsula	Sea bass	Average							0.04	0.12	0.04	0.04	0.02	0.03	0.01	—	—	—	—	—	0.02	—	0.03	0.03
		Max.							0.09	0.19	0.05	0.06	0.04	0.05	0.01	0.02	tr	0.01	0.01	0.01	0.03	0.02	0.04	0.04
Nakagusuku Bay □Okinawa Pref.	Black porgy	Average										—	—	—	—	—	—	—	—	—	—	—	—	—
		Max.										nd	nd	nd	nd	nd	nd	0.01	0.01	nd	nd	0.01	nd	nd
Lake Biwa, □Shiga Pref.	Dace	Average		0.08	0.05	0.05	0.03	0.05	0.02	0.11	0.04	0.02	0.04	0.05	0.07	0.06	0.04	0.03	0.04	0.01	0.03	0.04	0.05	0.05
		Max.		0.10	0.08	0.07	0.03	0.07	0.02	0.13	0.05	0.03	0.04	0.07	0.08	0.08	0.07	0.04	0.04	0.02	0.03	0.05	0.05	0.05
		Min.		0.06	0.04	0.05	0.02	0.03	0.01	0.09	0.03	0.02	0.03	0.04	0.05	0.04	0.03	0.03	0.04	0.01	0.03	0.03	0.03	0.04

(Shellfishes)

Yamada Bay, □Iwate Pref.	Common mussel	Average	0.01	0.02	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
		Max.	0.01	0.02	0.01	nd	0.01	tr	tr	nd	tr	tr	tr	tr	tr	nd	nd	tr	tr	nd	nd	nd	tr	nd
Miura Peninsula, □Kana gawa Pref.	Common mussel	Average	0.07	0.07	0.03	0.06	0.04	0.05	0.03	0.03	0.03	0.02	0.02	0.04	0.02	0.02	0.01	0.02	0.02	0.01	0.01	0.01	0.02	—
		Max.	0.08	0.08	0.03	0.06	0.05	0.05	0.04	0.04	0.04	0.03	0.02	0.04	0.03	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.02	nd
Noto Peninsula, □Ishik awa Pref.	Common mussel	Average				—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Max.				nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Ise Bay	Common mussel	Average												—	0.07	0.06	0.02	0.01	0.02	0.03	0.02	0.02	0.02	
		Max.												0.11	0.07	0.06	0.02	0.02	0.02	0.03	0.03	0.02	0.02	
Shimane □Peninsula	Common mussel	Average													0.04	—	—	0.01	0.10	0.03	0.02	0.08	0.08	
		Max.													0.05	tr	0.02	0.02	0.11	0.04	0.03	0.09	0.09	
Naruto	Asiatic mussel	Average	0.08	0.07	0.04	0.03	0.03	0.09	0.08	0.06	0.05	0.03	0.04	0.05	0.04	0.05	0.03	0.02	—	—	—	—	—	
		Max.	0.09	0.08	0.05	0.04	0.03	0.10	0.09	0.09	0.09	0.06	0.05	0.07	0.05	0.06	0.04	0.03	0.01	nd	nd	nd	nd	
		Min.	0.07	0.06	0.04	0.02	0.03	0.07	0.07	0.03	0.02	0.02	0.02	0.02	0.03	0.03	0.02	0.02	nd	nd	nd	nd	nd	

(Birds)

Suburbs of □Morioka □Iwate Pref.	Gray starling	Average	0.01	0.02	0.03	0.02	—	—	—	—	—	0.01	—	—	—	—	—	—	—	—	—	—	—
		Max.	0.02	0.03	0.05	0.03	0.01	tr	tr	tr	tr	tr	0.01	0.01	tr	tr	tr	tr	tr	tr	tr	nd	0.01
Tokyo Bay	Black-tailed gull	Average					—	1.86	1.96	1.68	1.20	2.00	2.84	1.40	1.56	2.56	1.15	0.77					
		Max.					8.90	2.60	2.30	2.10	1.50	2.80	3.60	1.90	2.00	3.30	1.40	0.87					
Kabushima	Black-tailed gull	Average																		0.34	0.03	0.02	0.02
		Max.																		0.67	0.05	0.02	0.02
		Min.																		0.14	0.02	0.02	0.01

(Note) nd : not detected, tr : trace

The sample picking area of Angry rockfish was changed from Offshore of Nemuro Hokkaido to Offshore of Kushiro Hokkaido from the fiscal year 1998.

Table E-2 p,p'-DDT (Fiscal Year 1978-1998)

(Fishes)

(Unit: ppm)

Sampling spot	Species	Classification	'78	'79	'80	'81	'82	'83	'84	'85	'86	'87	'88	'89	'90	'91	'92	'93	'94	'95	'96	'97	'98
Offshore of Kushiro, Hokkaido	Chum salmon	Average	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Max. Min.	nd	0.002	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.001	nd	0.001	nd	nd	nd	nd	0.001	nd	nd
Offshore of Nemuro, Hokkaido	Angry rockfish	Average	0.034	0.017	0.036	0.041	0.069	0.052	0.058	0.023	0.039	0.035	0.039	0.029	0.030	0.046	0.034	0.078	0.036	0.022	0.018	0.026	0.003
		Max. Min.	0.048	0.026	0.074	0.068	0.110	0.068	0.081	0.041	0.072	0.051	0.068	0.076	0.037	0.088	0.043	0.095	0.050	0.044	0.035	0.047	0.005
Yamada Bay, Iwate Pref.	Greenling	Average			0.003	0.003	0.002	0.004	0.002	-	0.002	-	-	-	-	-	-	-	-	-	-	-	-
		Max. Min.			0.005	0.004	0.003	0.006	0.003	0.002	0.003	0.001	tr	nd	nd	nd	nd	tr	nd	0.002	nd	0.001	tr
Offshore of Joban	Pacific saury	Average	0.004	0.002	0.003	-	0.002	0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Max. Min.	0.004	0.002	0.003	0.001	0.002	0.002	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Offshore of Tohoku, Sea of Japan	Cod	Average			0.008	0.003	0.004	-	0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-
		Max. Min.			0.015	0.005	0.008	0.002	0.002	0.003	nd	0.004	nd	nd	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
Tokyo Bay	Sea bass	Average	0.012	0.002	0.007	-	0.002	0.001	0.002	0.002	0.001	0.001	0.001	0.007	-	0.002	0.001	0.002	-	0.002	0.003	-	0.003
		Max. Min.	0.016	0.003	0.009	nd	0.003	0.002	0.002	0.003	0.002	0.002	0.002	0.012	nd	0.002	0.003	0.003	nd	0.002	0.004	0.001	0.005
Osaka Bay	Sea bass	Average			0.010	0.013	0.006	0.007	0.005	0.003	0.002	0.002	0.001	0.002	0.003	-	0.002	0.002	0.002	0.017	0.008	0.002	0.002
		Max. Min.			0.022	0.022	0.010	0.013	0.006	0.004	0.003	0.003	0.002	0.003	0.004	0.001	0.003	0.003	0.003	0.030	0.013	0.002	0.003
Seto Inland Sea	Sea bass	Average		0.028	0.007	-	0.093	-	0.002	0.008	0.003	0.002	0.019	0.003									0.002
		Max. Min.		0.036	0.010	0.075	0.160	0.04	0.004	0.002	0.014	0.007	0.004	0.062	0.005					0.002	0.003	0.016	0.005
Offshore of Sanin	Sea bass	Average					0.009	0.007	0.002	0.006	-	-	0.001	0.002	-	0.002	0.003	0.001	-	-	-	-	0.002
		Max. Min.					0.011	0.009	0.003	0.022	0.001	0.002	0.002	0.002	0.001	0.002	0.004	0.002	tr	tr	0.002	nd	
Mouth of the Riv. Shimanto	Sea bass	Average							0.012	0.007	0.007	0.005	-	-	0.005	-	-	-	-	-	-	-	-
		Max. Min.							0.030	0.016	0.022	0.010	nd	0.002	0.007	0.002	nd	0.007	nd	nd	nd	tr	
Surrounding of Shugen Island	Sea bass	Average																			0.003	-	-
		Max. Min.														0.001	tr	nd	nd	tr	0.004	0.004	0.002
West Coast of Satsuma Peninsula	Sea bass	Average							0.003	0.005	0.002	0.002	-	-	-	-	-	-	-	-	-	-	-
		Max. Min.							0.008	0.011	0.002	0.003	nd	0.003	nd	0.001	0.001	0.001	tr	0.001	0.001	nd	
Nakagusuku Bay, Okinawa Pref.	Black porgy	Average																					
		Max. Min.										0.001	0.001	0.001	nd	nd	nd	nd	tr	nd	tr	tr	0.004
Lake Biwa, Shiga Pref.	Dace	Average		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.004	0.004	0.002	-
		Max. Min.		nd	0.001	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.005	0.004	0.003	nd

(Shellfishes)

Yamada Bay, Iwate Pref.	Common mussel	Average	0.002	0.002	0.001	-	0.002	0.001	0.001	-	0.003	-	0.002	-	-	-	-	-	-	-	-	-	-
		Max. Min.	0.003	0.002	0.002	0.001	0.002	0.002	0.001	0.001	nd	0.003	tr	0.002	tr	0.001	0.002	nd	nd	nd	nd	nd	nd
Miura Peninsula, Kanagawa Pref.	Common mussel	Average	0.003	0.005	0.002	-	0.001	0.004	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	-	-	-	-	-	-	-
		Max. Min.	0.003	0.006	0.003	nd	0.002	0.004	0.002	0.001	0.001	0.001	0.001	0.001	0.001	0.001	nd	nd	nd	nd	nd	nd	nd
Noto Peninsula, Ishikawa Pref.	Common mussel	Average				0.004	0.002	0.005	-	-	-	-	0.001	0.001	-	-	-	-	-	-	-	-	-
		Max. Min.				0.004	0.002	0.007	0.002	nd	nd	nd	0.001	0.001	nd	nd	nd	nd	nd	nd	nd	nd	nd
Ise Bay	Common mussel	Average																					
		Max. Min.													nd	nd	nd	nd	nd	nd	nd	nd	nd
Shimane Peninsula	Common mussel	Average																			0.021	-	-
		Max. Min.														0.001	tr	nd	nd	0.024	nd	nd	
Naruto	Asiatic mussel	Average	0.010	0.007	0.004	-	0.008	0.003	0.003	0.002	0.001	0.002	-	-	0.002	-	-	-	-	-	-	-	-
		Max. Min.	0.013	0.008	0.005	nd	0.010	0.003	0.004	0.003	0.002	0.002	0.002	0.001	0.002	nd	nd	nd	nd	nd	nd	nd	

(Birds)

Suburbs of Morioka, Iwate Pref.	Gray starling	Average	0.003	-	0.007	-	-	0.004	-	-	-	0.002	0.001	-	-	-	0.001	0.001	-	-	-	0.001
		Max. Min.	0.007	nd	0.013	0.006	0.002	0.005	0.001	0.001	0.004	0.006	0.002	tr	0.001	0.001	tr	0.001	0.001	0.001	tr	nd
Tokyo Bay	Black-tailed gull	Average								0.011	-	-	-	-	0.003	-	-	-	-	-	-	-
		Max. Min.								0.043	0.001	nd	nd	nd	0.002	0.005	nd	nd				
Kabushima	Black-tailed gull	Average																				
		Max. Min.																			nd	nd

(Note) nd : not detected, tr : trace

The sample picking area of Angry rockfish was changed from Offshore of Nemuro Hokkaido to Offshore of Kushiro Hokkaido from the fiscal year 1998.





Table E-5 trans-Chlordane (Fiscal Year 1978-98)

(Fishes)

(Unit: ppm)

Sampling spot	Species	Classification	'78	'79	'80	'81	'82	'83	'84	'85	'86	'87	'88	'89	'90	'91	'92	'93	'94	'95	'96	'97	'98	
Offshore of Kushiro, Hokkaido	Chum salmon	Average Max. Min.						— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	
Offshore of □Nemuro, □Hokkaido	Angry rockfish	Average Max. Min.						0.001 nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	
Yamada Bay, □Iwate Pref.	Greenling	Average Max. Min.						— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	
Offshore of □Joban □	Pacific saury	Average Max. Min.						— nd	— nd	tr tr	tr tr	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	
Offshore of □Tohoku, □Sea of Japan	Cod	Average Max. Min.						— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	
Tokyo Bay	Sea bass	Average Max. Min.						0.003 0.004 0.002	0.003 0.004 0.002	0.005 0.006 0.004	0.002 0.003 0.001	0.004 0.006 0.003	0.003 0.004 0.001	0.007 0.009 0.005	0.001 0.002 0.001	0.003 0.003 0.002	— 0.003 0.002	0.003 0.004 0.001	0.001 0.001 0.001	— 0.001 0.002	0.002 0.002 0.002	— tr tr	— 0.004 0.002	
Osaka Bay	Sea bass	Average Max. Min.						0.008 0.011 0.005	0.009 0.014 0.002	0.007 0.008 0.006	0.010 0.012 0.008	0.007 0.010 0.006	0.007 0.009 0.005	0.011 0.014 0.009	0.008 0.011 0.006	0.007 0.013 0.005	0.004 0.004 0.004	0.005 0.006 0.004	0.002 0.004 0.003	0.002 0.003 0.002	0.007 0.011 0.003	0.001 0.001 0.001	0.004 0.004 0.003	
Seto Inland □Sea	Sea bass	Average Max. Min.						0.002 0.002 0.001	— 0.001 nd	0.002 0.004 0.001	— 0.004 nd	— 0.002 tr	0.003 0.008 0.001	0.003 0.004 0.001			— 0.003 nd	— nd nd	— nd nd	— nd nd	— 0.002 0.001	— 0.002 nd	— nd nd	
Offshore of □Sanin	Sea bass	Average Max. Min.						— 0.004 nd	0.006 0.007 0.005	0.003 0.004 0.002	0.002 0.003 0.002	0.001 0.002 0.001	0.002 0.004 0.001	— 0.002 nd	— 0.001 nd	— nd nd	0.002 0.002 0.001	— 0.001 tr	— nd tr	— nd tr	— tr tr	— tr tr	— nd nd	
Mouth of the □Riv. Shimanto	Sea bass	Average Max. Min.						— 0.003 nd	— 0.002 nd	— tr tr	— 0.001 nd	— 0.001 nd	— tr tr	— 0.002 tr	— tr tr	— nd nd	— tr tr	— tr tr	— tr tr	— tr tr	— tr tr	— tr tr	— tr tr	— tr tr
Surrounding of □Shugen Island	Sea bass	Average Max. Min.													nd nd	nd nd	nd nd	nd nd	nd nd	0.002 nd	nd nd	nd nd	tr nd	
West Coast of Satsuma Peninsula	Sea bass	Average Max. Min.							— 0.001 nd	0.005 0.009 0.002	0.003 0.004 0.002	0.003 0.006 0.001	— nd nd	— 0.003 nd	— 0.001 nd	— tr nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd
Nakagusuku Bay □Okinawa Pref.	Black porgy	Average Max. Min.										0.001 nd	— tr tr	— tr tr	— tr tr	— nd nd	— nd nd	— tr tr	— 0.008 nd	— 0.005 nd	— tr tr	— nd nd	— tr tr	
Lake Biwa, □Shiga Pref.	Dace	Average Max. Min.						0.050 0.070 0.004	0.007 0.007 0.006	0.008 0.010 0.006	0.008 0.009 0.007	0.004 0.006 0.002	0.018 0.024 0.011	0.010 0.011 0.009	0.013 0.016 0.009	0.009 0.010 0.008	0.009 0.011 0.007	0.014 0.016 0.012	0.003 0.006 0.001	0.002 0.004 0.001	0.002 0.003 0.002	— 0.001 nd	0.003 0.003 0.002	

(Shellfishes)

Yamada Bay, □Iwate Pref.	Common mussel	Average Max. Min.						— nd	— nd	— nd	0.001 nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd
Miura Peninsula, □Kana gawa Pref.	Common mussel	Average Max. Min.						0.017 0.018 0.016	0.016 0.018 0.015	0.019 0.020 0.018	0.009 0.010 0.008	0.005 0.006 0.005	0.006 0.007 0.005	0.005 0.005 0.004	0.002 0.002 0.002	0.002 0.003 0.002	0.002 0.002 0.002	0.003 0.003 0.002	0.002 0.002 0.002	0.002 0.003 0.002	0.002 0.003 0.002	0.002 0.002 0.002	0.002 0.002 0.002
Noto Peninsula, □Ishik awa Pref.	Common mussel	Average Max. Min.						— nd	0.001 nd	0.001 nd	0.001 0.001	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd
Ise Bay	Common mussel	Average Max. Min.												— 0.007 0.007	0.003 0.004 0.003	0.005 0.006 0.004	0.002 0.002 0.002	0.001 0.001 0.001	0.001 0.001 0.001	0.001 0.001 0.001	0.002 0.002 0.002	0.001 0.001 0.001	0.001 0.001 0.001
Shimane □Peninsula	Common mussel	Average Max. Min.													0.001 0.001	— tr	0.001 0.001	0.001 0.001	0.001 0.001	0.002 0.003	0.001 0.001	0.001 0.001	0.001 0.001
Naruto	Asiatic mussel	Average Max. Min.						0.010 0.011 0.010	0.013 0.013 0.012	0.018 0.022 0.015	0.015 0.024 0.003	0.016 0.021 0.008	— 0.008 nd	0.012 0.022 0.002	0.016 0.023 0.010	0.009 0.011 0.007	0.014 0.017 0.012	0.008 0.010 0.007	0.008 0.010 0.007	0.007 0.008 0.006	0.004 0.005 0.004	0.004 0.004 0.003	0.004 0.004 0.002

(Birds)

Suburbs of □Morioka □Iwate Pref.	Gray starling	Average Max. Min.						— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd
Tokyo Bay	Black-tailed gull	Average Max. Min.						0.001 0.002 0.001	0.001 0.001 0.001	0.001 0.001 0.001	0.001 0.001 0.001	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd
Kabushima	Black-tailed gull	Average Max. Min.																		— nd	— nd	— nd	— nd

(Note) nd : not detected, tr : trace

The sample picking area of Angry rockfish was changed from Offshore of Nemuro Hokkaido to Offshore of Kushiro Hokkaido from the fiscal year 1998.

Table E-6 cis-Chlordane (Fiscal Year 1978-98)

(Fishes)

(Unit: ppm)

Sampling spot	Species	Classification	'78	'79	'80	'81	'82	'83	'84	'85	'86	'87	'88	'89	'90	'91	'92	'93	'94	'95	'96	'97	'98
Offshore of Kushiro, Hokkaido	Chum salmon	Average Max. Min.						— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd
Offshore of □Nemuro, □Hokkaido	Angry rockfish	Average Max. Min.						— 0.001 nd	— 0.002 nd	— nd	— 0.002 nd	0.003 0.004 0.002	— 0.002 nd	— 0.002 nd	0.002 0.003 0.001	0.002 0.004 0.002	0.002 0.002 0.001	0.008 0.010 0.005	0.003 0.005 0.001	— nd	— 0.002 nd	— 0.003 nd	— 0.002 nd
Yamada Bay, □Iwate Pref.	Greenling	Average Max. Min.						— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	0.001 nd	— nd	— nd	— nd	— nd
Offshore of □Joban □	Pacific saury	Average Max. Min.						0.002 0.002 0.002	0.002 0.002 0.001	— tr	— tr	— nd	— nd	— 0.002 nd	— 0.001 nd	— 0.001 nd	0.001 0.001 0.001	— 0.001 nd	— 0.001 nd	— 0.001 nd	— 0.001 nd	0.001 0.001 0.001	— nd
Offshore of □Tohoku, □Sea of Japan	Cod	Average Max. Min.						— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd
Tokyo Bay	Sea bass	Average Max. Min.						0.007 0.010 0.005	0.007 0.008 0.005	0.015 0.018 0.013	0.007 0.009 0.004	0.016 0.022 0.011	0.009 0.012 0.004	0.025 0.035 0.017	0.004 0.006 0.003	0.008 0.010 0.005	0.005 0.009 0.003	0.009 0.011 0.007	0.003 0.004 0.002	0.002 0.003 0.002	0.003 0.003 0.002	— 0.002 tr	0.004 0.005 0.004
Osaka Bay	Sea bass	Average Max. Min.						0.019 0.024 0.015	0.027 0.042 0.008	0.016 0.020 0.014	0.017 0.021 0.013	0.015 0.020 0.012	0.013 0.016 0.009	0.015 0.020 0.012	0.012 0.016 0.010	0.008 0.019 0.005	0.006 0.008 0.005	0.013 0.015 0.009	0.007 0.011 0.006	0.006 0.006 0.005	0.016 0.027 0.008	0.003 0.004 0.002	0.009 0.010 0.007
Seto Inland □Sea	Sea bass	Average Max. Min.						0.004 0.006 0.003	— 0.005 nd	0.004 0.007 0.001	0.004 0.010 0.002	0.003 0.005 0.001	0.010 0.022 0.004	0.007 0.010 0.003			0.005 0.007 0.003	0.002 0.003 0.001	0.002 0.002 0.001	0.003 0.004 0.001	0.006 0.010 0.002	— 0.006 nd	0.002 0.002 0.001
Offshore of □Sanin	Sea bass	Average Max. Min.						0.006 0.012 0.002	0.015 0.019 0.012	0.007 0.009 0.005	0.005 0.006 0.004	0.002 0.004 0.002	0.004 0.006 0.003	0.004 0.005 0.003	0.003 0.003 0.002	— 0.002 nd	0.003 0.003 0.002	0.002 0.002 0.002	— tr	— 0.001 tr	— tr	— tr	— nd
Mouth of the □Riv. Shimanto	Sea bass	Average Max. Min.							— 0.013 nd	0.004 0.008 0.001	0.002 0.003 0.001	0.002 0.003 0.001	— 0.001 tr	— 0.002 tr	0.001 0.001 0.001	— 0.001 nd	— tr	— 0.002 tr	— 0.001 tr	— tr	— nd	— tr	— nd
Surrounding of □Shugen Island	Sea bass	Average Max. Min.													nd	0.007	nd	nd	0.002	0.003	0.001	tr	0.002
West Coast of Satsuma Peninsula	Sea bass	Average Max. Min.							— 0.003 tr	0.009 0.019 0.005	0.007 0.009 0.005	0.004 0.006 0.001	0.001 0.002 0.001	0.003 0.006 0.001	— 0.002 nd	— 0.003 tr	— tr	— tr	— 0.001 nd	— 0.001 nd	— tr	— nd	— nd
Nakagusuku Bay □Okinawa Pref.	Black porgy	Average Max. Min.										0.005 nd	0.002 tr	0.003 tr	0.005 tr	0.001 0.001	— nd	— tr	— 0.003 tr	— tr	— nd	— tr	— tr
Lake Biwa, □Shiga Pref.	Dace	Average Max. Min.						0.012 0.015 0.011	0.015 0.016 0.013	0.019 0.023 0.015	0.013 0.015 0.011	0.018 0.026 0.014	0.015 0.021 0.010	0.009 0.010 0.008	0.019 0.022 0.014	0.012 0.013 0.010	0.013 0.015 0.011	0.011 0.012 0.009	0.009 0.017 0.004	0.007 0.008 0.005	0.006 0.008 0.006	0.006 0.009 0.004	0.007 0.009 0.005

(Shellfishes)

Yamada Bay, □Iwate Pref.	Common mussel	Average Max. Min.						— 0.001 nd	— nd	— nd	— 0.001 nd	— nd	— nd	— nd	— 0.002 nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd
Miura Peninsula, □Kana-gawa Pref.	Common mussel	Average Max. Min.						0.017 0.018 0.016	0.010 0.011 0.010	0.012 0.013 0.011	0.008 0.009 0.007	0.006 0.006 0.005	0.004 0.004 0.003	0.003 0.003 0.002	0.003 0.002 0.001	0.003 0.003 0.002	0.002 0.002 0.001	0.003 0.003 0.002	0.003 0.002 0.002	0.002 0.002 0.002	0.003 0.003 0.003	0.003 0.004 0.003	0.002 0.003 0.002
Noto Peninsula, □Ishikawa Pref.	Common mussel	Average Max. Min.						— nd	0.001 0.001	0.002 0.003	0.002 0.002	0.002 0.004	0.001 0.001	0.001 0.001	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd
Ise Bay	Common mussel	Average Max. Min.												— 0.009	0.005 0.006	0.007 0.008	0.003 0.003	0.002 0.002	0.002 0.002	0.003 0.004	0.002 0.002	0.002 0.002	0.001 0.001
Shimane □Peninsula	Common mussel	Average Max. Min.													0.001	— 0.001	— tr	— 0.001	0.001 0.001	0.002 0.002	— nd	0.001 0.001	0.001 0.001
Naruto	Asiatic mussel	Average Max. Min.						0.019 0.021 0.017	0.026 0.028 0.025	0.028 0.035 0.021	0.021 0.034 0.003	0.028 0.034 0.014	— 0.018 nd	0.024 0.044 0.002	0.039 0.053 0.026	0.023 0.032 0.017	0.032 0.040 0.024	0.029 0.034 0.026	0.031 0.036 0.028	0.037 0.041 0.033	0.023 0.025 0.020	0.018 0.023 0.016	0.013 0.016 0.010

(Birds)

Suburbs of □Morioka □Iwate Pref.	Gray starling	Average Max. Min.						— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd
Tokyo Bay	Black-tailed gull	Average Max. Min.						0.013 0.017 0.009	0.008 0.010 0.007	0.016 0.017 0.013	0.013 0.021 0.008	0.014 0.018 0.008	0.006 0.008 0.005	0.003 0.004 0.002	0.005 0.008 0.003	0.002 0.004 0.003	0.006 0.009 0.004	0.005 0.007 0.004					
Kabushima	Black-tailed gull	Average Max. Min.																		— nd	— 0.001 nd	— nd	— nd

(Note) nd : not detected, tr : trace

The sample picking area of Angry rockfish was changed from Offshore of Nemuro Hokkaido to Offshore of Kushiro Hokkaido from the fiscal year 1998.



Table E-7 trans-Nonachlor (Fiscal Year 1978-98)

(Fishes)

(Unit: ppm)

Sampling spot	Species	Classification	'78	'79	'80	'81	'82	'83	'84	'85	'86	'87	'88	'89	'90	'91	'92	'93	'94	'95	'96	'97	'98
Offshore of Kushiro, Hokkaido	Chum salmon	Average Max. Min.						— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd
Offshore of □Nemuro, □Hokkaido	Angry rockfish	Average Max. Min.						— 0.003 nd	— 0.002 nd	— nd nd	0.003 0.005 0.002	0.003 0.005 0.002	— 0.007 nd	— 0.003 nd	0.003 0.005 0.001	0.006 0.010 0.004	0.006 0.009 0.004	0.015 0.018 0.012	0.004 0.007 0.002	0.003 0.004 0.002	0.003 0.004 0.002	0.004 0.006 0.002	0.002 0.003 0.001
Yamada Bay, □Iwate Pref.	Greenling	Average Max. Min.						— 0.001 nd	— 0.001 nd	— 0.002 nd	— 0.002 nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— 0.001 nd	— nd nd	— 0.001 nd	— nd nd	— nd nd
Offshore of □Joban □	Pacific saury	Average Max. Min.						— nd nd	— nd nd	— nd tr	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd
Offshore of □Tohoku, □Sea of Japan	Cod	Average Max. Min.						— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd
Tokyo Bay	Sea bass	Average Max. Min.						0.012 0.014 0.009	0.010 0.011 0.008	0.020 0.023 0.016	0.010 0.012 0.007	0.039 0.050 0.031	0.010 0.013 0.008	0.042 0.060 0.024	0.006 0.009 0.005	0.011 0.013 0.006	0.008 0.014 0.004	0.012 0.014 0.008	0.004 0.005 0.004	0.003 0.004 0.002	0.003 0.004 0.003	— 0.004 tr	0.006 0.008 0.005
Osaka Bay	Sea bass	Average Max. Min.						0.031 0.040 0.024	0.064 0.102 0.018	0.033 0.042 0.029	0.033 0.041 0.026	0.026 0.042 0.019	0.019 0.023 0.015	0.030 0.038 0.023	0.029 0.034 0.025	0.016 0.034 0.010	0.011 0.012 0.009	0.009 0.011 0.006	0.011 0.017 0.008	0.007 0.007 0.006	0.019 0.030 0.009	0.005 0.007 0.003	0.005 0.005 0.004
Seto Inland □Sea	Sea bass	Average Max. Min.						0.005 0.006 0.003	0.005 0.006 0.003	0.010 0.016 0.006	0.007 0.015 0.005	0.005 0.009 0.002	0.015 0.033 0.005	0.013 0.018 0.004			0.007 0.009 0.003	0.003 0.004 0.002	0.003 0.003 0.002	0.008 0.015 0.003	0.019 0.033 0.003	0.004 0.011 0.001	0.003 0.004 0.002
Offshore of □Sanin	Sea bass	Average Max. Min.						0.010 0.021 0.003	0.020 0.025 0.017	0.010 0.015 0.007	0.007 0.010 0.006	0.003 0.005 0.002	0.005 0.007 0.004	0.005 0.007 0.003	0.004 0.005 0.003	0.002 0.002 0.001	0.005 0.006 0.005	0.003 0.004 0.002	0.002 0.002 0.001	0.002 0.002 0.001	— 0.002 nd	0.003 0.004 0.002	0.002 0.002 0.001
Mouth of the □Riv. Shimanto	Sea bass	Average Max. Min.							0.016 0.032 0.006	0.011 0.021 0.006	0.007 0.011 0.006	0.007 0.008 0.006	0.004 0.006 0.002	0.003 0.007 0.002	0.004 0.006 0.003	— 0.002 tr	— 0.001 tr	— 0.007 tr	— 0.004 tr	0.002 0.003 0.002	— 0.001 nd	— 0.001 tr	0.001 0.002 0.001
Surrounding of □Shugen Island	Sea bass	Average Max. Min.													— 0.001 nd	0.009 0.025 0.002	0.002 0.002 0.002	0.002 0.003 0.001	— 0.002 tr	— 0.010 nd	— 0.002 tr	— 0.002 tr	— 0.005 nd
West Coast of Satsuma Peninsula	Sea bass	Average Max. Min.							0.006 0.009 0.004	0.019 0.038 0.010	0.015 0.019 0.013	0.015 0.029 0.008	0.007 0.012 0.003	0.010 0.016 0.004	— 0.004 tr	0.003 0.004 0.001	0.001 0.002 0.001	0.002 0.004 0.001	— 0.003 tr	0.001 0.002 0.001	— 0.002 tr	— 0.002 tr	— nd nd
Nakagusuku Bay □Okinawa Pref.	Black porgy	Average Max. Min.										0.012 0.026 0.004	0.007 0.013 0.003	0.015 0.035 0.004	0.011 0.039 0.003	0.004 0.005 0.003	0.005 0.008 0.001	0.005 0.008 0.002	0.003 0.006 0.002	0.002 0.004 0.001	— 0.004 tr	— tr nd	— 0.002 tr
Lake Biwa, □Shiga Pref.	Dace	Average Max. Min.						0.016 0.026 0.012	0.023 0.029 0.018	0.020 0.023 0.017	0.014 0.017 0.012	0.031 0.036 0.026	0.029 0.036 0.015	0.014 0.016 0.012	0.033 0.041 0.023	0.014 0.017 0.011	0.014 0.023 0.010	0.015 0.016 0.013	0.016 0.027 0.009	0.008 0.011 0.003	0.007 0.011 0.005	0.006 0.008 0.005	0.006 0.007 0.005

(Shellfishes)

Yamada Bay, □Iwate Pref.	Common mussel	Average Max. Min.						— 0.001 nd	— nd nd	— nd nd	— 0.001 nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd
Miura Peninsula, □Kana gawa Pref.	Common mussel	Average Max. Min.						0.009 0.010 0.009	0.011 0.013 0.010	0.019 0.021 0.018	0.009 0.010 0.009	0.006 0.007 0.006	0.005 0.005 0.004	0.038 0.040 0.030	0.003 0.003 0.003	0.002 0.002 0.002	0.003 0.003 0.002	0.003 0.002 0.002	0.002 0.002 0.002	0.004 0.004 0.003	0.003 0.004 0.003	0.002 0.003 0.002	
Noto Peninsula, □Ishik awa Pref.	Common mussel	Average Max. Min.						— nd nd	0.001 0.001 0.001	0.002 0.002 0.002	0.001 0.002 0.001	0.001 0.002 0.001	— nd nd	— 0.001 nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd
Ise Bay	Common mussel	Average Max. Min.												— 0.009 0.009	0.004 0.005 0.004	0.005 0.007 0.001	0.003 0.003 0.003	0.002 0.002 0.002	0.002 0.002 0.002	0.003 0.004 0.003	0.002 0.002 0.001	0.002 0.002 0.002	
Shimane □Peninsula	Common mussel	Average Max. Min.													0.001 0.002 0.001	— tr tr	— tr tr	— nd nd	0.002 0.002 0.002	— nd nd	— nd nd	— nd nd	
Naruto	Asiatic mussel	Average Max. Min.						0.008 0.008 0.007	0.011 0.012 0.008	0.014 0.017 0.012	0.007 0.010 0.003	0.007 0.010 0.004	— 0.005 nd	0.006 0.010 0.003	0.011 0.014 0.007	0.007 0.008 0.004	0.011 0.013 0.010	0.005 0.007 0.004	0.007 0.009 0.004	0.004 0.005 0.004	0.003 0.003 0.003	0.002 0.003 0.002	— nd nd

(Birds)

Suburbs of □Morioka □Iwate Pref.	Gray starling	Average Max. Min.						— 0.001 nd	— 0.002 nd	0.001 0.002 0.001	— nd nd	— nd nd	— nd nd	— nd nd	— 0.001 nd	— 0.001 nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	— 0.001 nd
Tokyo Bay	Black-tailed gull	Average Max. Min.						0.107 0.120 0.094	0.166 0.200 0.130	0.130 0.150 0.100	0.174 0.260 0.120	0.318 0.470 0.160	0.108 0.130 0.070	0.051 0.078 0.027	0.058 0.078 0.038	0.034 0.046 0.025	0.061 0.100 0.045	0.043 0.056 0.037					
Kabushima	Black-tailed gull	Average Max. Min.																		0.013 0.022 0.007	0.003 0.003 0.002	0.002 0.002 0.001	0.002 0.002 0.002

(Note) nd : not detected, tr : trace

The sample picking area of Angry rockfish was changed from Offshore of Nemuro Hokkaido to Offshore of Kushiro Hokkaido from the fiscal year 1998.

## Table E-8 cis-Nonachlor (Fiscal Year 1978-98)

(Fishes)

(Unit: ppm)

Sampling spot	Species	Classification	'78	'79	'80	'81	'82	'83	'84	'85	'86	'87	'88	'89	'90	'91	'92	'93	'94	'95	'96	'97	'98
Offshore of Kushiro, Hokkaido	Chum salmon	Average Max. Min.						— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd
Offshore of □Nemuro, □Hokkaido	Angry rockfish	Average Max. Min.						— nd	— nd	— nd	— nd	— 0.001	— nd	— nd	— nd	— 0.002	— nd	0.002 0.003	— 0.001	— nd	— nd	— nd	— nd
Yamada Bay, □Iwate Pref.	Greenling	Average Max. Min.						— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd
Offshore of □Joban □	Pacific saury	Average Max. Min.						— nd	— nd	tr tr	tr tr	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd
Offshore of □Tohoku, □Sea of Japan	Cod	Average Max. Min.						— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd
Tokyo Bay	Sea bass	Average Max. Min.						0.004 0.006 0.003	0.004 0.005 0.003	0.006 0.007 0.006	0.004 0.006 0.003	0.009 0.012 0.007	0.004 0.005 0.004	0.017 0.026 0.010	0.003 0.004 0.002	0.005 0.007 0.003	0.004 0.007 0.002	0.006 0.007 0.004	0.002 0.003 0.002	0.001 0.002 0.001	— 0.002 nd	— 0.002 tr	0.003 0.004 0.003
Osaka Bay	Sea bass	Average Max. Min.						0.011 0.013 0.009	0.017 0.027 0.006	0.010 0.012 0.008	0.011 0.014 0.009	0.009 0.015 0.007	0.007 0.009 0.005	0.010 0.012 0.008	0.008 0.010 0.007	0.005 0.013 0.002	0.004 0.009 0.003	0.007 0.009 0.004	0.004 0.006 0.003	0.003 0.004 0.003	0.009 0.015 0.006	0.003 0.003 0.002	0.006 0.006 0.005
Seto Inland □Sea	Sea bass	Average Max. Min.						— 0.002	— 0.002	0.004 0.006 0.002	— 0.004	— 0.004	0.007 0.014 0.002	0.006 0.008 0.003			0.003 0.005 0.001	— 0.002 0.002	0.002 0.002 0.002	0.003 0.005 0.001	0.006 0.013 0.002	— 0.004 nd	— 0.001 nd
Offshore of □Sanin	Sea bass	Average Max. Min.						— 0.009	0.010 0.012 0.008	0.004 0.006 0.003	0.003 0.003 0.002	0.001 0.002 0.001	0.002 0.003 0.001	0.002 0.003 0.002	0.002 0.002 0.002	— nd	0.003 0.003 0.002	0.002 0.002 0.002	— tr	— 0.001	— tr	— tr	— nd
Mouth of the □Riv. Shimanto	Sea bass	Average Max. Min.						— 0.006	0.003 0.006 0.001	0.001 0.002 0.001	0.002 0.002 0.001	0.002 0.002 0.001	— 0.001	— 0.001	0.001 0.002 0.001	— tr	— tr	0.002 0.002 0.001	0.001 0.001 0.001	— tr	— tr	— nd	— tr
Surrounding of □Shugen Island	Sea bass	Average Max. Min.													nd 0.007	— nd	— 0.001	— 0.001	— 0.004	— 0.004	— 0.001	— tr	— 0.002
West Coast of Satsuma Peninsula	Sea bass	Average Max. Min.							0.003 0.006 0.001	0.007 0.016 0.003	0.006 0.007 0.005	0.007 0.013 0.004	0.003 0.005 0.002	0.004 0.006 0.002	— 0.002	0.002 0.004	— tr	— 0.001	— nd	— tr	— nd	— nd	— tr
Nakagusuku Bay □Okinawa Pref.	Black porgy	Average Max. Min.										0.004 0.010 0.001	0.003 0.005 0.001	0.005 0.012 0.001	0.003 0.012 0.001	0.001 0.002 0.001	— 0.004	— 0.004	0.002 0.003 0.001	— 0.001	— 0.002	— 0.001	— tr
Lake Biwa, □Shiga Pref.	Dace	Average Max. Min.						0.008 0.010 0.006	0.008 0.009 0.007	0.008 0.010 0.007	0.006 0.007 0.005	0.009 0.012 0.007	0.012 0.015 0.007	0.006 0.007 0.005	0.016 0.019 0.012	0.009 0.010 0.007	0.011 0.014 0.008	0.011 0.012 0.011	0.003 0.007 0.001	0.005 0.008 0.001	0.004 0.005 0.002	0.004 0.005 0.004	0.002 0.003 0.001

(Shellfishes)

Yamada Bay, □Iwate Pref.	Common mussel	Average Max. Min.						— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd
Miura Peninsula, □Kana gawa Pref.	Common mussel	Average Max. Min.						0.007 0.008 0.007	0.006 0.006 0.005	0.007 0.008 0.006	0.003 0.003 0.003	0.003 0.004 0.003	0.002 0.003 0.002	0.002 0.002 0.002	0.001 0.001 0.001	0.002 0.001 0.001	0.001 0.001 0.001	0.001 0.001 0.001	0.001 0.001 0.001	— nd	0.001 0.001 0.001	0.001 0.001 0.001	
Noto Peninsula, □Ishik awa Pref.	Common mussel	Average Max. Min.						— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd
Ise Bay	Common mussel	Average Max. Min.												— 0.003	0.001 0.001	0.002 0.002	0.001 0.001	0.001 0.001	0.001 0.001	0.001 0.001	— 0.001	0.002 0.002	— nd
Shimane □Penins ula	Common mussel	Average Max. Min.													nd nd	tr nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd
Naruto	Asiatic mussel	Average Max. Min.						0.002 0.003 0.002	0.003 0.003 0.002	0.003 0.004 0.003	0.002 0.003 0.001	— 0.002	— 0.001	— 0.002	0.001 0.002	— nd	0.002 0.003	— nd	0.002 0.003	— nd	— 0.001	— nd	— nd

(Birds)

Suburbs of □Morioka □Iwa te Pref.	Gray starling	Average Max. Min.						— nd	— 0.001	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd
Tokyo Bay	Black-tailed gull	Average Max. Min.						0.029 0.036 0.024	0.041 0.057 0.035	0.038 0.054 0.027	0.050 0.080 0.030	0.065 0.110 0.033	0.040 0.050 0.025	0.012 0.028 0.006	0.020 0.027 0.013	0.012 0.016 0.010	0.027 0.054 0.017	0.016 0.023 0.011					
Kabushima	Black-tailed gull	Average Max. Min.																		0.003 nd	— 0.001	— nd	— nd

(Note) nd : not detected, tr : trace

The sample picking area of Angry rockfish was changed from Offshore of Nemuro Hokkaido to Offshore of Kushiro Hokkaido from the fiscal year 1998.

Table E-9 Oxychlordane (Fiscal Year 1978-98)

(Fishes)

(Unit: ppm)

Sampling spot	Species	Classification	'78	'79	'80	'81	'82	'83	'84	'85	'86	'87	'88	'89	'90	'91	'92	'93	'94	'95	'96	'97	'98	
Offshore of Kushiro, Hokkaido	Chum salmon	Average Max. Min.						— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	
Offshore of □Nemuro, □Hokkaido	Angry rockfish	Average Max. Min.						— nd	— nd	— nd	— nd	— 0.001	— nd	— 0.001	— nd	— 0.001	— nd	0.003 0.004	— 0.001	— nd	— nd	— nd	— nd	
Yamada Bay, □Iwate Pref.	Greenling	Average Max. Min.						— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	
Offshore of □Joban □	Pacific saury	Average Max. Min.						— nd	— nd	— tr	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	
Offshore of □Tohoku, □Sea of Japan	Cod	Average Max. Min.						— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	
Tokyo Bay	Sea bass	Average Max. Min.						0.001 0.002 0.001	0.001 0.001 0.001	0.002 0.002 0.001	— 0.002 tr	0.002 0.002 0.001	— 0.001 nd	0.001 0.003 0.001	— nd nd	— 0.002 nd	— 0.001 nd	— 0.001 nd	— nd nd	— nd nd	— 0.002 nd	— nd nd	— 0.002 nd	— nd nd
Osaka Bay	Sea bass	Average Max. Min.						0.003 0.004 0.003	0.005 0.007 0.002	0.003 0.004 0.003	0.004 0.004 0.003	0.002 0.003 0.001	0.001 0.002 0.001	0.002 0.002 0.002	0.002 0.001 0.002	— 0.001 tr	— 0.001 nd	0.001 0.001 0.001	0.001 0.001 0.001	— tr tr	0.002 0.009 0.001	— nd nd	0.001 0.001 0.001	
Seto Inland □Sea	Sea bass	Average Max. Min.						— nd	— 0.002	0.001 0.002 0.001	— nd	— tr	— 0.002	— 0.002	— nd	— nd	— nd	— nd	— nd	— 0.002	0.002 nd	0.002 nd	0.002 nd	
Offshore of □Sanin	Sea bass	Average Max. Min.						— 0.002	0.002 0.003 0.002	— nd	— 0.002	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— tr	— tr	— tr	
Mouth of the □Riv. Shimanto	Sea bass	Average Max. Min.						— nd	— 0.002	— 0.001	— 0.001	— tr	— tr	— tr	— tr	— tr	— tr	— tr	— tr	— tr	— tr	— tr	— tr	
Surrounding of □Shugen Island	Sea bass	Average Max. Min.						— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— 0.003	— nd	— nd	— nd	— nd	— nd	— nd	— nd	
West Coast of Satsuma Peninsula	Sea bass	Average Max. Min.						— 0.001	0.003 0.005 0.001	0.004 0.005 0.003	0.002 0.004 0.001	— 0.001	— 0.002	— 0.001	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	
Nakagusuku Bay □Okinawa Pref.	Black porgy	Average Max. Min.						— 0.006	— 0.013	— 0.002	— 0.006	— tr	0.004 0.005 0.001	0.003 0.007 0.001	0.001 0.002 0.001	— 0.003	— 0.002	— 0.002	— 0.002	— tr	0.001 0.002	— tr	— tr	— tr
Lake Biwa, □Shiga Pref.	Dace	Average Max. Min.						0.002 0.003 0.001	0.003 0.003 0.002	— 0.002 nd	0.001 0.001 0.001	0.002 0.004 0.001	0.003 0.003 0.003	0.002 0.002 0.002	0.003 0.004 0.003	0.003 0.004 0.003	0.001 0.002 0.001	— 0.002 nd	— nd nd	— nd nd	— nd nd	— nd nd	— nd nd	

(Shellfishes)

Yamada Bay, □Iwate Pref.	Common mussel	Average Max. Min.						— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd
Miura Peninsula, □Kana gawa Pref.	Common mussel	Average Max. Min.						— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd
Noto Peninsula, □Ishik awa Pref.	Common mussel	Average Max. Min.						— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd
Ise Bay	Common mussel	Average Max. Min.											— tr	— tr	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd	— nd
Shimane □Peninsula	Common mussel	Average Max. Min.												0.001 0.001	— tr	— tr	— nd	— nd	— nd	— nd	— nd	— nd	— nd
Naruto	Asiatic mussel	Average Max. Min.						0.004 0.004 0.003	0.005 0.005 0.005	0.007 0.008 0.005	— 0.006 nd	0.004 0.006 0.002	— 0.002 nd	— 0.004 nd	0.005 0.006 0.004	0.004 0.006 0.003	0.010 0.011 0.008	0.006 0.007 0.005	0.009 0.016 0.006	0.006 0.007 0.005	0.004 0.004 0.004	0.003 0.004 0.003	0.003 0.003 0.002

(Birds)

Suburbs of □Morioka □Iwate Pref.	Gray starling	Average Max. Min.						— 0.002	0.002 0.002 0.001	0.001 0.002 0.001	— 0.001	— nd	— nd	— 0.001	— nd	0.002 0.003 0.002	0.002 0.002 0.002	— nd	— nd	— nd	— nd	— nd	— 0.001
Tokyo Bay	Black-tailed gull	Average Max. Min.						0.036 0.049 0.029	0.038 0.049 0.023	0.034 0.046 0.021	0.041 0.055 0.035	0.055 0.079 0.030	0.030 0.040 0.014	0.018 0.023 0.013	0.014 0.018 0.011	0.010 0.014 0.008	0.015 0.019 0.011	0.013 0.016 0.012					
Kabushima	Black-tailed gull	Average Max. Min.																		0.006 0.011 0.003	0.002 0.002 0.001	— nd nd	— nd nd

(Note) nd : not detected, tr : trace

The sample picking area of Angry rockfish was changed from Offshore of Nemuro Hokkaido to Offshore of Kushiro Hokkaido from the fiscal year 1998.