

## **Appendix E**

### **Trend of Major Pollutant Levels in Wildlife Monitoring (Fiscal Year 1978-1995)**

## Appendix E

### Trend of Major Pollutant Levels in Wildlife Monitoring (Fiscal Year 1978-1995)

Table E-1	Polychlorinated biphenyls (PCB) .....
Table E-2	Hexachlorobenzene (HCB) .....
Table E-3	Dieldrin .....
Table E-4	p, p'-Dichlorodiphenyltrichloroethane (p, p'-DDT) .....
Table E-5	- Hexachlorocyclohexane (    -HCH) .....
Table E-6	trans-Chlordane .....
Table E-7	cis-Chlordane .....
Table E-8	trans-Nonachlor .....
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Table E-10	Oxychlordane .....

**Table E-1 PCB (Fiscal Year 1978–1995)**

(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	
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	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	0.08	0.11	0.04	0.05
		Max. Min.	0.05 0.01	0.04 0.02	0.04 0.01	nd nd	nd nd	nd nd	nd nd	nd nd	nd nd	nd nd	0.01 0.03	0.06 0.03	0.08 0.03	0.04 0.02	0.06 0.03	0.08 0.04	0.12 0.07	0.04 0.03	0.06 0.04
Yamada Bay, Iwase Pref.	Greenling	Average			–	–	–	–	–	–	–	0.02	–	–	–	–	–	–	–	–	
		Max. Min.			nd nd	0.02 nd	0.02 nd	0.03 nd	tr nd	tr nd	0.02 tr	0.03 tr	0.02 tr	nd nd	tr nd	0.01 tr	tr nd	0.01 tr	tr nd	0.01 tr	tr nd
Offshore of Joban	Pacific saury	Average	0.02	0.01	–	–	–	–	–	–	–	0.14	0.01	–	–	–	–	–	–	–	
		Max. Min.	0.02 0.01	0.01 0.01	0.01 nd	nd nd	nd nd	nd nd	nd nd	nd nd	nd nd	tr nd	0.25 0.07	0.02 0.01	nd nd	nd nd	nd nd	nd nd	nd nd	nd nd	nd nd
Offshore of Tohoku, Sea of Japan	Cod	Average			–	–	–	–	–	–	–	–	0.02	0.02	–	–	–	–	–	–	
		Max. Min.			0.01 nd	0.02 nd	nd nd	nd nd	nd nd	nd nd	nd nd	nd nd	0.02 nd	0.04 tr	0.02 nd	nd nd	nd 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	
		Max. Min.	0.50 0.20	0.50 0.40	0.60 0.10	1.0 0.48	0.37 0.23	0.15 0.08	0.15 0.07	0.10 0.08	0.08 0.05	0.08 0.12	0.18 0.12	0.27 0.29	0.56 0.07	0.17 0.55	0.11 0.16	0.38 0.21	0.29 0.19	0.27 0.18	0.08 0.04
Osaka Bay	Sea bass	Average			0.68	1.3	0.80	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	
		Max. Min.			1.0 0.20	1.8 1.1	1.1 0.30	0.70 0.43	0.77 0.26	0.19 0.15	0.23 0.09	0.40 0.13	0.15 0.08	0.57 0.40	0.73 0.41	0.39 0.11	0.53 0.42	0.87 0.15	0.33 0.19	0.24 0.14	
Seto Inland Sea	Sea bass	Average		0.68	0.32	0.18	1.3	0.49	0.68	0.87	0.46	0.20	0.35	0.09			0.07	0.11	0.04	0.06	
		Max. Min.		0.70 0.60	0.50 0.10	0.50 0.04	2.1 0.27	0.99 0.13	1.0 0.34	1.4 0.57	1.0 0.10	1.0 0.14	0.37 0.13	0.53 0.02	0.13 0.02			0.09 0.01	0.20 0.03	0.05 0.02	0.11 0.02
Offshore of Sanin	Sea bass	Average					0.17	0.12	0.13	0.09	0.07	0.12	0.13	0.08	0.06	0.06	0.08	0.09	0.03	0.02	
		Max. Min.				0.23 0.14	0.22 0.05	0.16 0.09	0.12 0.06	0.13 0.05	0.12 0.05	0.13 0.10	0.13 0.06	0.13 0.05	0.09 0.05	0.06 0.05	0.06 0.05	0.06 0.06	0.09 0.07	0.11 0.03	0.03 0.01
Mouth of the Riv. Shimanto	Sea bass	Average							0.28	0.12	0.04	0.08	–	–	0.10	–	–	–	–		
		Max. Min.							0.65 0.07	0.28 0.06	0.08 0.01	0.16 0.03	0.08 tr	0.16 tr	0.02 0.05	0.17 tr	0.02 tr	0.17 tr	0.02 tr	0.05 tr	
Surrounding of Shugan Island	Sea bass	Average													0.03	0.06	0.02	–	0.03		
		Max. Min.													0.04 0.01	0.13 0.03	0.03 0.01	0.01 tr	0.04 tr	0.04 nd	
West Coast of Satsuma Peninsula	Sea bass	Average							0.04	0.12	0.04	0.04	0.02	0.03	0.01	–	–	–	–		
		Max. Min.							0.09 0.02	0.19 0.06	0.05 0.03	0.06 0.03	0.04 0.01	0.05 0.01	0.02 tr	0.01 tr	0.02 tr	0.01 tr	0.01 tr	0.01 tr	
Nakagusuku Bay Okinawa Pref.	Black porgy	Average											–	–	–	–	–	–	–		
		Max. Min.											nd nd	nd nd	nd nd	nd nd	nd nd	0.01 tr	0.01 tr	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	
		Max. Min.		0.10 0.06	0.08 0.04	0.07 0.05	0.03 0.02	0.07 0.03	0.02 0.01	0.13 0.09	0.05 0.03	0.05 0.02	0.03 0.02	0.04 0.03	0.07 0.04	0.08 0.05	0.08 0.04	0.07 0.03	0.04 0.03	0.04 0.04	0.02 0.01

(Shellfishes)

Yamada Bay, Iwate Pref.	Common mussel	Average	0.01	0.02	0.01	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
		Max. Min.	0.01 0.01	0.02 0.01	0.01 nd	nd nd	0.01 nd	tr nd	tr nd	nd nd	tr nd	tr nd	tr nd	tr nd	tr nd	nd nd	nd nd	tr nd	tr nd	nd nd
Miura Peninsula, Kanagawa 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
		Max. Min.	0.08 0.05	0.08 0.07	0.03 0.03	0.06 0.06	0.04 0.04	0.05 0.04	0.05 0.03	0.04 0.03	0.04 0.03	0.04 0.01	0.02 0.01	0.02 0.03	0.04 0.02	0.03 0.02	0.02 0.01	0.02 0.01	0.02 0.01	0.02 0.01
Noto Peninsula, Ishikawa Pref.	Common mussel	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
Ise Bay	Common mussel	Average												–	0.07	0.06	0.02	0.01	0.02	
		Max. Min.												0.11 0.11	0.07 0.06	0.06 0.05	0.02 0.02	0.02 0.01	0.02 0.02	
Shimane Peninsula	Common mussel	Average														0.04	–	–	0.01	
		Max. Min.														0.05 0.02	tr nd	0.02 tr	0.02 0.01	
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. Min.	0.09 0.07	0.08 0.06	0.05 0.04	0.04 0.02	0.03 0.03	0.10 0.07	0.09 0.07	0.09 0.03	0.09 0.02	0.09 0.02	0.06 0.02	0.05 0.02	0.07 0.03	0.05 0.03	0.06 0.02	0.04 0.02	0.03 0.02	0.01 nd

(Birds)

Suburbs of Morioka Iwate Pref.	Gray starling	Average	0.01	0.02	0.03	0.02	–	–	–	–	–	0.01	–	–	–	–	–	–	–
		Max. Min.	0.02 nd	0.03 0.02	0.05 0.02	0.03 0.02	0.01 nd	tr nd	0.01 tr	tr tr	0.01 tr	0.01 tr	0.02 tr	0.01 tr	0.01 tr	tr nd	tr tr	tr tr	tr tr
Tokyo Bay	Black-tailed gull	Average					–	1.9	2.0	1.7	1.2	2.0	2.8	1.4	1.6	2.6	1.2	0.77	
		Max. Min.					8.9 2.9	2.6 1.2	2.3 1.6	2.1 1.4	1.5 1.0	2.8 1.4	3.6 1.8	1.9 1.1	2.0 1.0	3.3 2.0	1.4 0.79	1.4 0.66	
Kabushima	Black-tailed gull	Average																	0.34
		Max. Min.																	0.67 0.14

**Table E-2 HCB (Fiscal Year 1978–1995)**

(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		
Offshore of Kushiro, Hokkaido	Chum salmon	Average	0.004	0.003	0.002	0.004	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
		Max.	0.007	0.004	0.003	0.006	0.001	nd	nd	nd	nd	0.002	nd	0.001	nd	nd	nd	nd	nd	nd	nd	0.001
Offshore of Nemuro, Hokkaido	Angry rockfish	Average	0.001	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max.	0.002	0.001	nd	0.002	0.002	nd	nd	nd	nd	0.002	nd	0.002	0.002	0.002	0.004	0.001	0.003	0.03	0.001	–
Yamada Bay, Iwase Pref.	Greenling	Average	–	–	0.001	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max.	–	–	0.002	nd	nd	nd	nd	tr	nd	tr	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Offshore of Joban	Pacific saury	Average	0.002	0.003	0.006	–	0.001	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max.	0.003	0.004	0.007	0.001	0.001	nd	0.001	tr	tr	tr	0.002	tr	tr	nd	nd	0.001	nd	nd	nd	0.001
Offshore of Tohoku, Sea of Japan	Cod	Average	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max.	–	–	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Tokyo Bay	Sea bass	Average	0.002	0.002	0.002	–	–	0.001	–	–	–	–	–	–	0.004	–	–	–	–	–	–	–
		Max.	0.004	0.002	0.003	0.001	0.001	0.001	tr	0.001	tr	tr	nd	0.001	0.009	nd	0.002	nd	nd	nd	nd	nd
Osaka Bay	Sea bass	Average	–	–	–	0.006	–	–	–	–	–	–	–	–	–	0.002	0.002	–	–	–	–	–
		Max.	–	–	0.005	0.007	0.007	tr	0.002	tr	nd	tr	tr	tr	0.003	0.004	tr	tr	tr	0.001	tr	tr
Seto Inland Sea	Sea bass	Average	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max.	–	0.001	0.001	0.002	0.003	0.001	nd	0.002	0.001	nd	0.001	nd	–	–	–	nd	nd	nd	nd	nd
Offshore of Sanin	Sea bass	Average	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max.	–	–	–	–	tr	nd	nd	nd	nd	tr	tr	tr	tr	tr	tr	tr	tr	tr	tr	tr
Mouth of the Riv. Shimanto	Sea bass	Average	–	–	–	–	–	–	0.001	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max.	–	–	–	–	–	–	0.002	0.001	nd	tr	nd	nd	nd	tr	nd	nd	nd	nd	nd	nd
Surrounding of Shugen Island	Sea bass	Average	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
West Coast of Satsuma Peninsula	Sea bass	Average	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max.	–	–	–	–	–	–	tr	tr	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Nakagusuku Bay Okinawa Pref.	Black porgy	Average	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Lake Biwa, Shiga Pref.	Dace	Average	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max.	–	0.002	0.002	–	0.001	–	0.001	0.001	0.001	0.001	–	–	0.001	0.001	0.001	0.001	0.001	0.001	0.001	–
		Min.	–	0.002	0.003	0.001	0.001	nd	0.002	0.001	0.001	0.002	nd	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
		Min.	–	0.002	0.001	nd	0.001	nd	0.001	0.001	0.001	0.001	nd	nd	0.001	0.001	0.001	0.001	0.001	0.001	0.001	nd

(Shellfishes)

Yamada Bay, Iwate Pref.	Common mussel	Average	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	
		Max.	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Miura Peninsula, Kanagawa Pref.	Common mussel	Average	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max.	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Noto Peninsula, Ishikawa Pref.	Common mussel	Average	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max.	–	–	–	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Ise Bay	Common mussel	Average	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Shimane Peninsula	Common mussel	Average	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
Naruto	Asiatic mussel	Average	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max.	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd

(Birds)

Suburbs of Morioka Iwate Pref.	Gray starling	Average	–	–	–	0.001	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max.	tr	0.002	0.002	0.003	nd	tr	tr	tr	tr	tr	tr	nd	tr	tr	nd	nd	tr	nd	0.001
Tokyo Bay	Black-tailed gull	Average	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max.	–	–	–	–	0.024	0.030	0.014	0.014	0.014	0.017	0.013	0.011	0.010	0.007	0.006	0.019	–	–	–
Kabushima	Black-tailed gull	Average	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Min.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Min.	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–







**Table E-6 trans-Chlordane (Fiscal Year 1978–1995)**

(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
Offshore of Kushiro, Hokkaido	Chum salmon	Average					–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max. Min.					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	0.001	nd	nd	0.001	0.001	nd	nd	0.001	0.001
Yamada Bay, Iwate Pref.	Greenling	Average					–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max. Min.					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	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
Tokyo Bay	Sea bass	Average					0.003	0.003	0.005	0.002	0.004	0.003	0.007	0.001	0.003	–	0.003	0.001	–	–
		Max. Min.					0.004	0.004	0.006	0.003	0.006	0.004	0.009	0.002	0.003	0.003	0.004	0.004	0.001	0.001
Osaka Bay	Sea bass	Average					0.008	0.009	0.007	0.010	0.007	0.007	0.011	0.008	0.007	0.004	0.005	0.002	0.002	0.002
		Max. Min.					0.011	0.014	0.008	0.012	0.010	0.009	0.014	0.011	0.013	0.004	0.006	0.004	0.004	0.002
Seto Inland Sea	Sea bass	Average					0.002	–	0.002	–	–	0.003	0.003	–	–	–	–	–	–	–
		Max. Min.					0.002	0.001	0.004	0.004	0.002	0.008	0.004	–	–	0.003	nd	nd	nd	nd
Offshore of Sanin	Sea bass	Average					–	0.006	0.003	0.002	0.001	0.002	–	–	–	0.002	–	–	–	–
		Max. Min.					0.004	0.007	0.004	0.003	0.002	0.004	0.002	0.001	nd	nd	0.001	0.001	tr	nd
Mouth of the Riv. Shimanto	Sea bass	Average					–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max. Min.					0.003	nd	0.002	tr	0.001	tr	0.002	tr	tr	nd	nd	tr	tr	tr
Surrounding of Shugen Island	Sea bass	Average													nd	nd	nd	nd	nd	0.002
		Max. Min.													nd	nd	nd	nd	nd	nd
West Coast of Satsuma Peninsula	Sea bass	Average						–	0.005	0.003	0.003	–	–	–	–	–	–	–	–	–
		Max. Min.						0.001	0.009	0.004	0.006	0.001	nd	0.003	0.001	tr	nd	nd	nd	nd
Nakagusuku Bay Okinawa Pref.	Black porgy	Average										–	–	–	–	–	–	–	–	–
		Max. Min.										0.001	tr	tr	tr	nd	nd	tr	0.008	0.005
Lake Biwa, Shiga Pref.	Dace	Average					0.005	0.007	0.008	0.008	0.004	0.018	0.010	0.013	0.009	0.009	0.014	0.003	0.002	0.002
		Max. Min.					0.007	0.007	0.010	0.009	0.006	0.024	0.011	0.016	0.010	0.011	0.016	0.006	0.006	0.004

(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
Miura Peninsula, Kanagawa Pref.	Common mussel	Average					0.017	0.016	0.019	0.009	0.005	0.006	0.005	0.002	0.002	0.002	0.002	0.002	0.003	0.002
		Max. Min.					0.018	0.018	0.020	0.010	0.006	0.007	0.005	0.002	0.003	0.002	0.001	0.002	0.002	0.003
Noto Peninsula, Ishikawa Pref.	Common mussel	Average					–	–	–	0.001	–	–	–	–	–	–	–	–	–	–
		Max. Min.					nd	0.001	0.001	0.002	0.001	0.001	nd	nd	nd	nd	nd	nd	nd	nd
Ise Bay	Common mussel	Average												–	0.003	0.005	0.002	0.001	0.001	0.002
		Max. Min.												0.007	0.004	0.006	0.002	0.001	0.001	0.001
Shimane Peninsula	Common mussel	Average													0.001	–	0.001	0.001	0.001	0.002
		Max. Min.													0.001	tr	0.001	0.001	0.001	0.003
Naruto	Asiatic mussel	Average					0.010	0.013	0.018	0.015	0.016	–	0.012	0.016	0.009	0.014	0.008	0.008	0.008	0.007
		Max. Min.					0.011	0.013	0.022	0.024	0.021	0.008	0.022	0.023	0.011	0.017	0.010	0.010	0.010	0.008

(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
Tokyo Bay	Black-tailed gull	Average					0.001	0.001	0.001	0.001	–	–	–	–	–	–	–	–	–	–
		Max. Min.					0.002	0.001	0.001	0.001	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Kabushima	Black-tailed gull	Average																		–
		Max. Min.																		nd



**Table E-7 cis-Chlordane (Fiscal Year 1978–1995)**

(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
Offshore of Kushiro, Hokkaido	Chum salmon	Average						–	–	–	–	–	–	–	–	–	–	–	–	–
		Max. Min.						nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Offshore of Nemuro, Hokkaido	Angry rockfish	Average						–	–	–	–	0.003	–	–	0.002	0.002	0.002	0.008	0.003	–
		Max. Min.						0.001	0.002	nd	0.002	0.004	0.002	0.002	0.003	0.004	0.002	0.010	0.005	0.002
Yamada Bay, Iwate Pref.	Greenling	Average						–	–	–	–	–	–	–	–	–	–	–	–	–
		Max. Min.						nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	0.001	nd
Offshore of Joban	Pacific saury	Average						0.002	0.002	–	–	–	–	–	–	–	0.001	–	–	–
		Max. Min.						0.002	0.002	tr	tr	nd	nd	0.002	0.001	0.001	0.001	0.001	0.001	0.001
Offshore of Tohoku, Sea of Japan	Cod	Average						–	–	–	–	–	–	–	–	–	–	–	–	–
		Max. Min.						nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Tokyo Bay	Sea bass	Average						0.007	0.007	0.015	0.007	0.016	0.009	0.025	0.004	0.008	0.005	0.009	0.003	0.002
		Max. Min.						0.010	0.008	0.018	0.009	0.022	0.012	0.035	0.006	0.010	0.009	0.011	0.004	0.003
Osaka Bay	Sea bass	Average						0.019	0.027	0.016	0.017	0.015	0.013	0.015	0.012	0.008	0.006	0.013	0.007	0.006
		Max. Min.						0.024	0.042	0.020	0.021	0.020	0.016	0.020	0.016	0.019	0.008	0.015	0.011	0.006
Seto Inland Sea	Sea bass	Average						0.004	–	0.004	0.004	0.003	0.010	0.007	–	–	0.005	0.002	0.002	0.003
		Max. Min.						0.006	0.005	0.007	0.010	0.005	0.022	0.010	–	–	0.007	0.003	0.002	0.004
Offshore of Sanin	Sea bass	Average						0.006	0.015	0.007	0.005	0.002	0.004	0.004	0.003	–	0.003	0.002	–	–
		Max. Min.						0.012	0.019	0.009	0.006	0.004	0.006	0.005	0.003	0.002	0.003	0.002	0.002	tr
Mouth of the Riv. Shimanto	Sea bass	Average						–	–	0.004	0.002	0.002	–	–	0.001	–	–	–	–	–
		Max. Min.						0.013	0.008	0.003	0.003	0.001	0.001	0.002	0.001	0.001	tr	tr	0.002	0.001
Surrounding of Shugen Island	Sea bass	Average													–	–	–	–	–	–
		Max. Min.													nd	0.007	nd	nd	0.002	0.003
West Coast of Satsuma Peninsula	Sea bass	Average						–	0.009	0.007	0.004	0.001	0.003	–	–	–	–	–	–	–
		Max. Min.						0.003	0.019	0.009	0.006	0.002	0.001	0.006	0.002	0.003	tr	tr	0.001	0.001
Nakagusuku Bay Okinawa Pref.	Black porgy	Average										–	–	–	–	0.001	–	–	–	–
		Max. Min.										0.005	0.002	0.003	0.005	0.001	0.001	0.001	0.003	tr
Lake Biwa, Shiga Pref.	Dace	Average						0.012	0.015	0.019	0.013	0.018	0.015	0.009	0.019	0.012	0.013	0.011	0.009	0.007
		Max. Min.						0.015	0.016	0.023	0.015	0.026	0.021	0.010	0.022	0.013	0.015	0.012	0.017	0.008

(Shellfishes)

Yamada Bay, Iwate Pref.	Common mussel	Average						–	–	–	–	–	–	–	–	–	–	–	–	–
		Max. Min.						0.001	nd	nd	0.001	nd	nd	nd	0.002	nd	nd	nd	nd	nd
Miura Peninsula, Kanagawa Pref.	Common mussel	Average						0.170	0.010	0.012	0.008	0.006	0.004	0.003	0.003	0.002	0.003	0.003	0.003	0.002
		Max. Min.						0.018	0.011	0.013	0.009	0.006	0.004	0.004	0.003	0.003	0.002	0.001	0.002	0.002
Noto Peninsula, Ishikawa Pref.	Common mussel	Average						–	0.001	0.002	0.002	0.002	0.001	0.001	–	–	–	–	–	–
		Max. Min.						nd	0.001	0.003	0.002	0.004	0.001	0.001	nd	nd	nd	nd	nd	nd
Ise Bay	Common mussel	Average												–	0.005	0.007	0.003	0.002	0.002	0.003
		Max. Min.												0.009	0.006	0.008	0.003	0.002	0.002	0.002
Shimane Peninsula	Common mussel	Average														0.001	–	–	0.001	0.002
		Max. Min.														0.001	tr	tr	0.001	0.001
Naruto	Asiatic mussel	Average						0.019	0.026	0.028	0.021	0.028	–	0.024	0.039	0.023	0.032	0.029	0.031	0.037
		Max. Min.						0.021	0.028	0.035	0.034	0.034	0.018	0.044	0.053	0.032	0.040	0.034	0.036	0.041

(Birds)

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

**Table E-8 trans-Nonachlor (Fiscal Year 1978–1995)**

(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	
Offshore of Kushiro, Hokkaido	Chum salmon	Average Max.						–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Min.						nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Offshore of Nemuro, Hokkaido	Angry rockfish	Average Max.						–	–	–	0.003	0.003	–	–	0.003	0.006	0.006	0.015	0.004	0.003	0.003
		Min.						0.003	0.002	nd	0.005	0.005	0.007	0.003	0.005	0.010	0.009	0.018	0.007	0.004	0.004
Yamada Bay, Iwase Pref.	Greenling	Average Max.						–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Min.						0.001	0.001	0.002	0.002	nd	nd	nd	nd	nd	nd	nd	nd	0.001	nd
Offshore of Joban	Pacific saury	Average Max.						0.002	0.001	–	–	–	–	–	–	–	–	–	–	–	–
		Min.						0.002	0.001	0.001	0.001	tr	nd	nd	0.001	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
Tokyo Bay	Sea bass	Average Max.						0.012	0.010	0.020	0.010	0.039	0.010	0.042	0.006	0.011	0.008	0.012	0.004	0.003	0.003
		Min.						0.014	0.011	0.023	0.012	0.050	0.013	0.060	0.009	0.013	0.014	0.014	0.014	0.005	0.004
Osaka Bay	Sea bass	Average Max.						0.031	0.064	0.033	0.033	0.026	0.019	0.030	0.029	0.016	0.011	0.009	0.011	0.017	0.007
		Min.						0.040	0.102	0.042	0.041	0.042	0.023	0.038	0.034	0.034	0.012	0.011	0.017	0.007	0.006
Seto Inland Sea	Sea bass	Average Max.						0.005	0.005	0.010	0.007	0.005	0.015	0.013			0.007	0.003	0.003	0.008	0.008
		Min.						0.006	0.006	0.016	0.015	0.009	0.033	0.018			0.009	0.004	0.003	0.015	0.003
Offshore of Sanin	Sea bass	Average Max.						0.010	0.020	0.010	0.007	0.003	0.005	0.005	0.004	0.002	0.005	0.003	0.002	0.002	0.002
		Min.						0.021	0.025	0.015	0.010	0.005	0.007	0.007	0.005	0.002	0.006	0.004	0.002	0.002	0.002
Mouth of the Riv. Shimanto	Sea bass	Average Max.							0.016	0.011	0.007	0.007	0.004	0.003	0.004			–	–	–	0.002
		Min.							0.032	0.021	0.011	0.008	0.006	0.007	0.006	0.002	0.002	tr	tr	tr	0.004
Surrounding of Shugen Island	Sea bass	Average Max.													–	0.009	0.002	0.002	–	–	–
		Min.													0.001	0.025	0.002	0.003	0.002	0.010	0.002
West Coast of Satsuma Peninsula	Sea bass	Average Max.							0.006	0.019	0.015	0.015	0.007	0.010	–	0.003	0.001	0.002	–	–	0.001
		Min.							0.009	0.038	0.019	0.029	0.012	0.016	0.004	0.004	0.002	0.004	0.003	0.002	0.002
Nakagusuku Bay Okinawa Pref.	Black porgy	Average Max.										0.012	0.007	0.015	0.011	0.004	0.005	0.005	0.003	0.002	0.002
		Min.										0.026	0.013	0.035	0.039	0.005	0.008	0.008	0.006	0.004	0.004
Lake Biwa, Shiga Pref.	Dace	Average Max.						0.016	0.023	0.020	0.014	0.031	0.029	0.014	0.033	0.014	0.014	0.015	0.016	0.008	0.008
		Min.						0.026	0.029	0.023	0.017	0.036	0.036	0.016	0.041	0.017	0.023	0.016	0.027	0.011	0.011

(Shellfishes)

Yamada Bay, Iwate Pref.	Common mussel	Average Max.						–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Min.						0.001	nd	nd	0.001	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Miura Peninsula, Kanagawa Pref.	Common mussel	Average Max.						0.009	0.011	0.019	0.009	0.006	0.005	0.005	0.038	0.003	0.002	0.003	0.003	0.002	0.002
		Min.						0.010	0.013	0.021	0.010	0.007	0.006	0.005	0.040	0.003	0.002	0.003	0.003	0.002	0.002
Noto Peninsula, Ishikawa Pref.	Common mussel	Average Max.						–	0.001	0.002	0.001	0.001	–	–	–	–	–	–	–	–	–
		Min.						nd	0.001	0.002	0.002	0.002	nd	0.001	nd	nd	nd	nd	nd	nd	nd
Ise Bay	Common mussel	Average Max.												–	0.004	0.005	0.003	0.002	0.002	0.003	0.003
		Min.												0.009	0.004	0.001	0.003	0.002	0.002	0.002	0.003
Shimane Peninsula	Common mussel	Average Max.														0.001	–	–	–	0.002	0.002
		Min.														0.002	tr	tr	tr	nd	0.002
Naruto	Asiatic mussel	Average Max.						0.008	0.011	0.014	0.007	0.007	–	0.006	0.011	0.007	0.011	0.005	0.007	0.004	0.004
		Min.						0.008	0.012	0.017	0.010	0.010	0.005	0.010	0.014	0.008	0.013	0.007	0.009	0.005	0.005

(Birds)

Suburbs of Morioka Iwate Pref.	Gray starling	Average Max.						–	–	0.001	–	–	–	–	–	–	0.001	–	–	–	–	
		Min.						0.001	0.002	0.002	nd	nd	nd	nd	nd	nd	0.002	0.001	nd	nd	nd	nd
Tokyo Bay	Black-tailed gull	Average Max.						0.107	0.166	0.130	0.174	0.318	0.108	0.051	0.058	0.034	0.061	0.043				
		Min.						0.120	0.200	0.150	0.260	0.470	0.130	0.078	0.078	0.046	0.100	0.056				
Kabushima	Black-tailed gull	Average Max.																				0.013
		Min.																				0.022

**Table E-9 cis-Nonachlor (Fiscal Year 1978–1995)**

(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
Offshore of Kushiro, Hokkaido	Chum salmon	Average					–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max. Min.					nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Offshore of Nemuro, Hokkaido	Angry rockfish	Average					–	–	–	–	–	–	–	–	–	–	–	0.002	–	–
		Max. Min.					nd	nd	nd	nd	0.001	nd	nd	nd	0.002	nd	nd	0.002	0.003	0.001
Yamada Bay, Iwase Pref.	Greenling	Average					–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max. Min.					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	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
Tokyo Bay	Sea bass	Average					0.004	0.004	0.006	0.004	0.009	0.004	0.017	0.003	0.005	0.004	0.006	0.002	0.001	–
		Max. Min.					0.006	0.005	0.007	0.006	0.012	0.005	0.026	0.004	0.007	0.007	0.007	0.007	0.003	0.002
Osaka Bay	Sea bass	Average					0.011	0.017	0.010	0.011	0.009	0.007	0.010	0.008	0.005	0.004	0.007	0.004	0.004	0.003
		Max. Min.					0.013	0.027	0.012	0.014	0.015	0.009	0.012	0.010	0.013	0.004	0.009	0.006	0.006	0.004
Seto Inland Sea	Sea bass	Average					–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max. Min.					0.002	0.002	0.006	0.004	0.004	0.014	0.008	0.003	0.005	0.002	0.003	0.005	0.002	0.002
Offshore of Sanin	Sea bass	Average					–	0.010	0.004	0.003	0.001	0.002	0.002	0.002	0.002	–	0.003	0.002	–	–
		Max. Min.					0.009	0.012	0.006	0.003	0.002	0.003	0.003	0.003	0.002	nd	0.003	0.002	tr	0.001
Mouth of the Riv. Shimanto	Sea bass	Average					–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max. Min.					0.006	0.006	0.002	0.002	0.001	0.001	0.001	0.001	0.001	tr	tr	tr	0.002	0.001
Surrounding of Shugen Island	Sea bass	Average													–	–	–	–	–	–
		Max. Min.												nd	0.007	0.001	0.001	0.004	0.004	0.004
West Coast of Satsuma Peninsula	Sea bass	Average						0.003	0.007	0.006	0.007	0.003	0.004	–	0.002	–	–	–	–	–
		Max. Min.					0.006	0.016	0.007	0.013	0.005	0.006	0.002	0.002	tr	0.004	tr	0.001	nd	nd
Nakagusuku Bay Okinawa Pref.	Black porgy	Average										0.004	0.003	0.005	0.003	0.001	–	–	0.002	–
		Max. Min.										0.010	0.005	0.012	0.012	0.002	0.004	0.004	0.003	0.001
Lake Biwa, Shiga Pref.	Dace	Average					0.008	0.008	0.008	0.006	0.009	0.012	0.006	0.016	0.009	0.011	0.011	0.011	0.003	0.005
		Max. Min.					0.010	0.009	0.010	0.007	0.012	0.015	0.007	0.019	0.010	0.014	0.012	0.012	0.007	0.008

(Shellfishes)

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

(Birds)

Suburbs of Morioka Iwate Pref.	Gray starling	Average					–	–	–	–	–	–	–	–	–	–	–	–	–	–
		Max. Min.					nd	0.001	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Tokyo Bay	Black-tailed gull	Average					0.029	0.041	0.038	0.050	0.065	0.040	0.012	0.020	0.012	0.027	0.016			
		Max. Min.					0.036	0.057	0.054	0.080	0.110	0.050	0.028	0.027	0.016	0.054	0.023			
Kabushima	Black-tailed gull	Average																		–
		Max. Min.																		0.003

**Table E-10 Oxychlordan (Fiscal Year 1978–1995)**

(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
Offshore of Kushiro, Hokkaido	Chum salmon	Average						–	–	–	–	–	–	–	–	–	–	–	–	–
		Max. Min.						nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Offshore of Nemuro, Hokkaido	Angry rockfish	Average						–	–	–	–	–	–	–	–	–	–	0.003	–	–
		Max. Min.						nd	nd	nd	nd	0.001	nd	0.001	nd	0.001	nd	0.004	0.001	–
Yamada Bay, Iwate Pref.	Greenling	Average						–	–	–	–	–	–	–	–	–	–	–	–	–
		Max. Min.						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
Offshore of Tohoku, Sea of Japan	Cod	Average						–	–	–	–	–	–	–	–	–	–	–	–	–
		Max. Min.						nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Tokyo Bay	Sea bass	Average						0.001	0.001	0.002	–	0.002	–	0.001	–	–	–	–	–	–
		Max. Min.						0.002	0.001	0.002	0.002	0.002	0.001	0.003	nd	0.002	0.001	0.001	0.001	nd
Osaka Bay	Sea bass	Average						0.003	0.005	0.003	0.004	0.002	0.001	0.002	0.002	–	–	–	0.001	0.001
		Max. Min.						0.004	0.007	0.004	0.004	0.003	0.002	0.002	0.002	0.001	0.001	0.001	0.001	0.001
Seto Inland Sea	Sea bass	Average						–	–	0.001	–	–	–	–	–	–	–	–	–	–
		Max. Min.						nd	0.002	0.002	nd	tr	0.002	0.002				nd	nd	nd
Offshore of Sanin	Sea bass	Average						–	0.002	–	–	–	–	–	–	–	–	–	–	–
		Max. Min.						0.002	0.003	0.002	0.002	nd	nd	nd	nd	nd	nd	nd	nd	nd
Mouth of the Riv. Shimanto	Sea bass	Average						–	–	–	–	–	–	–	–	–	–	–	–	–
		Max. Min.						nd	nd	0.002	0.001	0.001	tr	tr	tr	tr	tr	tr	tr	tr
Surrounding of Shugen Island	Sea bass	Average														–	–	–	–	–
		Max. Min.													nd	0.003	nd	nd	nd	nd
West Coast of Satsuma Peninsula	Sea bass	Average							–	0.003	0.004	0.002	–	–	–	–	–	–	–	–
		Max. Min.							0.001	0.005	0.005	0.004	0.001	0.002	0.001	nd	nd	nd	nd	nd
Nakagusuku Bay Okinawa Pref.	Black porgy	Average										0.006	–	0.004	0.003	0.001	–	–	–	–
		Max. Min.										0.013	0.006	0.005	0.007	0.002	0.003	0.002	0.002	0.002
Lake Biwa, Shiga Pref.	Dace	Average						0.002	0.003	–	0.001	0.002	0.003	0.002	0.003	0.003	0.001	–	–	–
		Max. Min.						0.003	0.003	0.002	0.001	0.004	0.003	0.002	0.004	0.004	0.002	0.002	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
Miura Peninsula, Kanagawa Pref.	Common mussel	Average						–	–	–	–	–	–	–	–	–	–	–	–	–
		Max. Min.						nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Noto Peninsula, Ishikawa Pref.	Common mussel	Average						–	–	–	–	–	–	–	–	–	–	–	–	–
		Max. Min.						nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd	nd
Ise Bay	Common mussel	Average													–	–	–	–	–	–
		Max. Min.												tr	nd	nd	nd	nd	nd	nd
Shimane Peninsula	Common mussel	Average														0.001	–	–	–	–
		Max. Min.													0.001	tr	nd	nd	nd	nd
Naruto	Asiatic mussel	Average						0.004	0.005	0.007	–	0.004	–	–	0.005	0.004	0.010	0.006	0.009	0.006
		Max. Min.						0.004	0.005	0.008	0.006	0.006	0.002	0.004	0.006	0.006	0.011	0.007	0.016	0.007

(Birds)

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