Results of 1998 Research on Effects of Endocrine disrupting Chemicals on Wildlife (Frogs-1)

(Concentration per wet weight)

No.							1										
SPEED'98 No.							2										
							Polychlorinated biphenyls (PCBs)										
No.	Name of species	Specimen collection site	Gender (M: Male, F: Female)	Age (A:Adult)	Specimen	Lipid	Chlorinated biphenyl	Dichloro biphenyl	Trichloro biphenyl	Tetrachloro biphenyl	Pentachloro biphenyl	Hexachloro biphenyl	Heptachloro biphenyl	Octachloro biphenyl	Nonachloro biphenyl	Decichloro biphenyl	PCB total*
					Unit	%	μ g/kg-wet										
1	N	Yamada Ryokuchi	M	A	whole body	1.2	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
2	N	Yamada Ryokuchi	M	A	whole body	0.98	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
3	N	Yamada Ryokuchi	M	A	whole body	1.3	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
4	N	Yamada Ryokuchi	M	A	whole body	1.6	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
5	N	Yamada Ryokuchi	M	A	whole body	1.7	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
6	N	Yamada Ryokuchi	M	A	whole body	1.0	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
7	N	Yamada Ryokuchi	M	A	whole body	1.3	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
8	N	Yamada Ryokuchi	M	A	whole body	1.0	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
9	N	Yamada Ryokuchi	M	A	whole body	1.2	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
10	N	Yamada Ryokuchi	M	A	whole body	0.94	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0
11	Y	Yamada Ryokuchi	M	A	whole body	0.98	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
12	Y	Yamada Ryokuchi	M	A	whole body	1.1	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
13	Y	Yamada Ryokuchi	M	A	whole body	1.0	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
14	Y	Yamada Ryokuchi	M	A	whole body	1.4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
15	Y	Yamada Ryokuchi	M	A	whole body	1.2	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
16	Y	Yamada Ryokuchi	M	A	whole body	1.2	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
17	Y	Yamada Ryokuchi	M	A	whole body	0.99	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
18	Y	Yamada Ryokuchi	M	A	whole body	0.87	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
19	Y	Yamada Ryokuchi	M	A	whole body	0.98	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
20	Y	Yamada Ryokuchi	M	A	whole body	0.84	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
21	N	Yamada Ryokuchi	F	A	whole body	0.77	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
22	N	Yamada Ryokuchi	F	A	whole body	0.65	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
23	N	Yamada Ryokuchi	F	A	whole body	0.50	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
24	N	Yamada Ryokuchi	F	A	whole body	1.1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
25	N	Yamada Ryokuchi	F	A	whole body	1.2	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
26	N	Yamada Ryokuchi	F	A	whole body	0.64	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
27	N	Yamada Ryokuchi	F	A	whole body	0.85	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
28	N	Yamada Ryokuchi	F	A	whole body	0.93	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
29	N	Yamada Ryokuchi	F	A	whole body	0.81	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
30	N	Yamada Ryokuchi	F	A	whole body	1.2	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
31	N	Yamada Ryokuchi	F	A	whole body	2.9	–	–	–	–	–	–	–	–	–	–	–
32	N	Yamada Ryokuchi	F	A	whole body	2.1	–	–	–	–	–	–	–	–	–	–	–
33	N	Yamada Ryokuchi	F	A	whole body	2.6	–	–	–	–	–	–	–	–	–	–	–
34	N	Yamada Ryokuchi	F	A	whole body	3.2	–	–	–	–	–	–	–	–	–	–	–
35	N	Yamada Ryokuchi	F	A	whole body	2.2	–	–	–	–	–	–	–	–	–	–	–
36	N	Yamada Ryokuchi	F	A	whole body	2.0	–	–	–	–	–	–	–	–	–	–	–
37	N	Yamada Ryokuchi	F	A	whole body	3.2	–	–	–	–	–	–	–	–	–	–	–
38	N	Yamada Ryokuchi	F	A	whole body	2.6	–	–	–	–	–	–	–	–	–	–	–
39	Y	Yamada Ryokuchi	F	A	whole body	1.6	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0
40	Y	Yamada Ryokuchi	F	A	whole body	0.94	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
41	Y	Yamada Ryokuchi	F	A	whole body	1.2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
42	Y	Yamada Ryokuchi	F	A	whole body	1.1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
43	Y	Yamada Ryokuchi	F	A	whole body	0.88	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
44	Y	Yamada Ryokuchi	F	A	whole body	1.7	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
45	Y	Yamada Ryokuchi	F	A	whole body	1.3	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
46	Y	Yamada Ryokuchi	F	A	whole body	0.72	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
47	Y	Yamada Ryokuchi	F	A	whole body	0.84	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
48	Y	Yamada Ryokuchi	F	A	whole body	0.90	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
49	Y	Yamada Ryokuchi	F	A	whole body	0.64	–	–	–	–	–	–	–	–	–	–	–

Name of species N:Japanese brown frogs Y: Montane brown frogs

Resullts of 1998 Research on Effects of Endocrine Disrupting Chemicals on Wildlife (Frogs-2)

(Concentration per wet weight)

No.							1										
SPEED'98 No.							2										
							Polychlorinated biphenyls (PCBs)										
No.	Name of species	Specimen collection site	Gender (M: Male, F: Female)	Age (A: Adult)	Specimen	Lipid	Chlorinated biphenyl	Dichloro biphenyl	Trichloro biphenyl	Tetrachloro biphenyl	Pentachloro biphenyl	Hexachloro biphenyl	Heptachloro biphenyl	Octachloro biphenyl	Nonachloro biphenyl	Decichloro biphenyl	PCB total*
Unit						%	μg/kg-wet										
50	N	Place selected for comparision purposes	M	A	Whole body	1.3	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
51	N	Place selected for comparision purposes	M	A	Whole body	0.63	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
52	N	Place selected for comparision purposes	M	A	Whole body	1.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0
53	N	Place selected for comparision purposes	M	A	Whole body	0.70	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0
54	N	Place selected for comparision purposes	M	A	Whole body	0.79	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0
55	N	Place selected for comparision purposes	M	A	Whole body	1.2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0
56	N	Place selected for comparision purposes	M	A	Whole body	0.58	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
57	N	Place selected for comparision purposes	M	A	Whole body	0.84	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
58	N	Place selected for comparision purposes	M	A	Whole body	1.0	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
59	N	Place selected for comparision purposes	M	A	Whole body	1.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	0
60	N	Place selected for comparision purposes	M	A	Whole body	2.4	–	–	–	–	–	–	–	–	–	–	–
61	N	Place selected for comparision purposes	M	A	Whole body	0.48	–	–	–	–	–	–	–	–	–	–	–
62	N	Place selected for comparision purposes	M	A	Whole body	1.2	–	–	–	–	–	–	–	–	–	–	–
63	N	Place selected for comparision purposes	M	A	Whole body	0.54	–	–	–	–	–	–	–	–	–	–	–
64	N	Place selected for comparision purposes	M	A	Whole body	0.67	–	–	–	–	–	–	–	–	–	–	–
65	N	Place selected for comparision purposes	M	A	Whole body	0.81	–	–	–	–	–	–	–	–	–	–	–
66	N	Place selected for comparision purposes	M	A	Whole body	0.86	–	–	–	–	–	–	–	–	–	–	–
67	N	Place selected for comparision purposes	M	A	Whole body	0.66	–	–	–	–	–	–	–	–	–	–	–
68	Y	Place selected for comparision purposes	M	A	Whole body	1.1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
69	Y	Place selected for comparision purposes	M	A	Whole body	1.2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
70	Y	Place selected for comparision purposes	M	A	Whole body	1.9	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
71	Y	Place selected for comparision purposes	M	A	Whole body	1.4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
72	Y	Place selected for comparision purposes	M	A	Whole body	1.4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
73	Y	Place selected for comparision purposes	M	A	Whole body	1.5	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
74	Y	Place selected for comparision purposes	M	A	Whole body	1.1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
75	Y	Place selected for comparision purposes	M	A	Whole body	1.7	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
76	Y	Place selected for comparision purposes	M	A	Whole body	2.1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
77	Y	Place selected for comparision purposes	M	A	Whole body	1.4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
78	Y	Place selected for comparision purposes	M	A	Whole body	1.3	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
79	N	Place selected for comparision purposes	F	A	Whole body	0.74	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
80	N	Place selected for comparision purposes	F	A	Whole body	0.84	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
81	N	Place selected for comparision purposes	F	A	Whole body	0.85	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
82	N	Place selected for comparision purposes	F	A	Whole body	0.84	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
83	N	Place selected for comparision purposes	F	A	Whole body	0.78	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
84	N	Place selected for comparision purposes	F	A	Whole body	0.86	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
85	N	Place selected for comparision purposes	F	A	Whole body	1.0	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
86	N	Place selected for comparision purposes	F	A	Whole body	0.96	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
87	N	Place selected for comparision purposes	F	A	Whole body	0.83	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0
88	N	Place selected for comparision purposes	F	A	Whole body	0.66	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	0
89	N	Place selected for comparision purposes	F	A	Whole body	2.5	–	–	–	–	–	–	–	–	–	–	–
90	N	Place selected for comparision purposes	F	A	Whole body	0.69	–	–	–	–	–	–	–	–	–	–	–
91	N	Place selected for comparision purposes	F	A	Whole body	2.4	–	–	–	–	–	–	–	–	–	–	–
92	Y	Place selected for comparision purposes	F	A	Whole body	1.1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0
93	Y	Place selected for comparision purposes	F	A	Whole body	1.7	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0
94	Y	Place selected for comparision purposes	F	A	Whole body	2.8	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0
95	Y	Place selected for comparision purposes	F	A	Whole body	0.87	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0
96	Y	Place selected for comparision purposes	F	A	Whole body	1.3	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0
97	Y	Place selected for comparision purposes	F	A	Whole body	0.77	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0
98	Y	Place selected for comparision purposes	F	A	Whole body	1.1	<2	<2	<2	<2	4	9	<2	<2	<2	<2	13
99	Y	Place selected for comparision purposes	F	A	Whole body	1.2	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	0
100	Y	Place selected for comparision purposes	F	A	Whole body	1.1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	0

Name of species N: Japanese brown frogs Y: Montane brown frogs

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

(Concentration per wet weight)

No.	Name of species	specimen collection site	Gender (M:Male、F:Female)	Age (A:Adult)	Specimen	Lipid	Hexachlorobenzene(HCB)	Hexachlorocyclohexane					Chlordane		Oxychlordane	trans-Nonachlor	cis-Nonachlor
								α-HCH	β-HCH	γ-HCH	δ-HCH	HCH total*	cis-Chlordane	trans-Chlordane			
No.						2	3						4		5	6	
SPEED'98 No.						4	12						14		15	16	
Unit						%	μg/kg-wet										
1	N	Yamada Ryokuchi	M	A	Whole body	1.2	<4	<4	<4	<4	<4	0	<4	<4	6	<4	<4
2	N	Yamada Ryokuchi	M	A	Whole body	0.98	<4	<4	<4	<4	<4	0	<4	<4	6	<4	<4
3	N	Yamada Ryokuchi	M	A	Whole body	1.3	<4	<4	<4	<4	<4	0	<4	<4	7	<4	<4
4	N	Yamada Ryokuchi	M	A	Whole body	1.6	<4	<4	<4	<4	<4	0	<4	<4	4	<4	<4
5	N	Yamada Ryokuchi	M	A	Whole body	1.7	<4	<4	<4	<4	<4	0	<4	<4	6	<4	<4
6	N	Yamada Ryokuchi	M	A	Whole body	1.0	<4	<4	<4	<4	<4	0	<4	<4	4	<4	<4
7	N	Yamada Ryokuchi	M	A	Whole body	1.3	<4	<4	<4	<4	<4	0	<4	<4	5	<4	<4
8	N	Yamada Ryokuchi	M	A	Whole body	1.0	<4	<4	<4	<4	<4	0	<4	<4	6	<4	<4
9	N	Yamada Ryokuchi	M	A	Whole body	1.2	<4	<4	<4	<4	<4	0	<4	<4	4	<4	<4
10	N	Yamada Ryokuchi	M	A	Whole body	0.94	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
11	Y	Yamada Ryokuchi	M	A	Whole body	0.98	<4	<4	<4	<4	<4	0	<4	<4	7	<4	<4
12	Y	Yamada Ryokuchi	M	A	Whole body	1.1	<4	5	<4	<4	<4	5	<4	<4	6	<4	<4
13	Y	Yamada Ryokuchi	M	A	Whole body	1.0	<4	<4	<4	<4	<4	0	<4	<4	6	<4	<4
14	Y	Yamada Ryokuchi	M	A	Whole body	1.4	<4	<4	<4	<4	<4	0	<4	<4	6	<4	<4
15	Y	Yamada Ryokuchi	M	A	Whole body	1.2	<4	<4	<4	<4	<4	0	<4	<4	8	<4	<4
16	Y	Yamada Ryokuchi	M	A	Whole body	1.2	<4	<4	<4	<4	<4	0	<4	<4	5	<4	<4
17	Y	Yamada Ryokuchi	M	A	Whole body	0.99	<4	<4	<4	<4	<4	0	<4	<4	5	<4	<4
18	Y	Yamada Ryokuchi	M	A	Whole body	0.87	<4	<4	<4	<4	<4	0	<4	<4	4	<4	<4
19	Y	Yamada Ryokuchi	M	A	Whole body	0.98	<4	<4	<4	<4	<4	0	<4	<4	6	<4	<4
20	Y	Yamada Ryokuchi	M	A	Whole body	0.84	<4	<4	<4	<4	<4	0	<4	<4	5	<4	<4
21	N	Yamada Ryokuchi	F	A	Whole body	0.77	<4	<4	<4	<4	<4	0	<4	<4	<4	<4	<4
22	N	Yamada Ryokuchi	F	A	Whole body	0.65	<4	<4	<4	<4	<4	0	<4	<4	<4	<4	<4
23	N	Yamada Ryokuchi	F	A	Whole body	0.50	<4	<4	<4	<4	5	5	<4	<4	<4	<4	<4
24	N	Yamada Ryokuchi	F	A	Whole body	1.1	<2	<2	<2	<2	<2	0	<2	<2	2	<2	<2
25	N	Yamada Ryokuchi	F	A	Whole body	1.2	<4	<4	<4	<4	<4	0	<4	<4	<4	<4	<4
26	N	Yamada Ryokuchi	F	A	Whole body	0.64	<4	<4	<4	<4	<4	0	<4	<4	<4	<4	<4
27	N	Yamada Ryokuchi	F	A	Whole body	0.85	<4	<4	<4	<4	<4	0	<4	<4	<4	<4	<4
28	N	Yamada Ryokuchi	F	A	Whole body	0.93	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
29	N	Yamada Ryokuchi	F	A	Whole body	0.81	<4	<4	<4	<4	<4	0	<4	<4	<4	<4	<4
30	N	Yamada Ryokuchi	F	A	Whole body	1.2	<4	<4	<4	<4	<4	0	<4	<4	4	<4	<4
31	N	Yamada Ryokuchi	F	A	Whole body	2.9	－	－	－	－	－	－	－	－	－	－	－
32	N	Yamada Ryokuchi	F	A	Whole body	2.1	－	－	－	－	－	－	－	－	－	－	－
33	N	Yamada Ryokuchi	F	A	Whole body	2.6	－	－	－	－	－	－	－	－	－	－	－
34	N	Yamada Ryokuchi	F	A	Whole body	3.2	－	－	－	－	－	－	－	－	－	－	－
35	N	Yamada Ryokuchi	F	A	Whole body	2.2	－	－	－	－	－	－	－	－	－	－	－
36	N	Yamada Ryokuchi	F	A	Whole body	2.0	－	－	－	－	－	－	－	－	－	－	－
37	N	Yamada Ryokuchi	F	A	Whole body	3.2	－	－	－	－	－	－	－	－	－	－	－
38	N	Yamada Ryokuchi	F	A	Whole body	2.6	－	－	－	－	－	－	－	－	－	－	－
39	Y	Yamada Ryokuchi	F	A	Whole body	1.6	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
40	Y	Yamada Ryokuchi	F	A	Whole body	0.94	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
41	Y	Yamada Ryokuchi	F	A	Whole body	1.2	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
42	Y	Yamada Ryokuchi	F	A	Whole body	1.1	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
43	Y	Yamada Ryokuchi	F	A	Whole body	0.88	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
44	Y	Yamada Ryokuchi	F	A	Whole body	1.7	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
45	Y	Yamada Ryokuchi	F	A	Whole body	1.3	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
46	Y	Yamada Ryokuchi	F	A	Whole body	0.72	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
47	Y	Yamada Ryokuchi	F	A	Whole body	0.84	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
48	Y	Yamada Ryokuchi	F	A	Whole body	0.90	<4	<4	<4	<4	<4	0	<4	<4	<4	<4	<4
49	Y	Yamada Ryokuchi	F	A	Whole body	0.64	－	－	－	－	－	－	－	－	－	－	－

Name of species N:Japanese brown frogs Y:Montane brown frogs

Results of 1998 Research on Effects of Endocrine Disrupting Chemicals on Wildlife (Frogs－4)

(Concentration per wet weight)

							No.	2	3						4		5	6	
							SPEED'98 No.	4	12						14		15	16	
									Hexachlorocyclohexane						Chlordane				
No.	Name of species	Specimen collection site	Gender (M:Male, F:Female)	Age (A:Adult)	Specimen	Lipid	Hexachlorobenzene(HCB)	α-HCH	β-HCH	γ-HCH	δ-HCH	HCH total*	cis-Chlordane	trans-Chlordane	Oxychlordane	trans-Nonachlor	cis-Nonachlor
					Unit	%	μg/kg-wet										
50	N	Place selected for comparision	M	A	Whole body	1.3	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
51	N	Place selected for comparision	M	A	Whole body	0.63	<4	<4	<4	<4	<4	0	<4	<4	5	<4	<4
52	N	Place selected for comparision	M	A	Whole body	1.0	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
53	N	Place selected for comparision	M	A	Whole body	0.70	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
54	N	Place selected for comparision	M	A	Whole body	0.79	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
55	N	Place selected for comparision	M	A	Whole body	1.2	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
56	N	Place selected for comparision	M	A	Whole body	0.58	<4	<4	<4	<4	<4	0	<4	<4	<4	<4	<4
57	N	Place selected for comparision	M	A	Whole body	0.84	<4	<4	<4	<4	<4	0	<4	<4	6	<4	<4
58	N	Place selected for comparision	M	A	Whole body	1.0	<4	<4	<4	<4	<4	0	<4	<4	5	<4	<4
59	N	Place selected for comparision	M	A	Whole body	1.0	<5	<5	<5	<5	<5	0	<5	<5	<5	<5	<5
60	N	Place selected for comparision	M	A	Whole body	2.4	–	–	–	–	–	–	–	–	–	–	–
61	N	Place selected for comparision	M	A	Whole body	0.48	–	–	–	–	–	–	–	–	–	–	–
62	N	Place selected for comparision	M	A	Whole body	1.2	–	–	–	–	–	–	–	–	–	–	–
63	N	Place selected for comparision	M	A	Whole body	0.54	–	–	–	–	–	–	–	–	–	–	–
64	N	Place selected for comparision	M	A	Whole body	0.67	–	–	–	–	–	–	–	–	–	–	–
65	N	Place selected for comparision	M	A	Whole body	0.81	–	–	–	–	–	–	–	–	–	–	–
66	N	Place selected for comparision	M	A	Whole body	0.86	–	–	–	–	–	–	–	–	–	–	–
67	N	Place selected for comparision	M	A	Whole body	0.66	–	–	–	–	–	–	–	–	–	–	–
68	Y	Place selected for comparision	M	A	Whole body	1.1	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
69	Y	Place selected for comparision	M	A	Whole body	1.2	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
70	Y	Place selected for comparision	M	A	Whole body	1.9	<2	<2	<2	<2	<2	0	<2	<2	4	<2	<2
71	Y	Place selected for comparision	M	A	Whole body	1.4	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
72	Y	Place selected for comparision	M	A	Whole body	1.4	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
73	Y	Place selected for comparision	M	A	Whole body	1.5	<4	<4	<4	<4	<4	0	<4	<4	<4	<4	<4
74	Y	Place selected for comparision	M	A	Whole body	1.1	<2	<2	<2	<2	<2	0	<2	<2	3	<2	<2
75	Y	Place selected for comparision	M	A	Whole body	1.7	<4	<4	<4	<4	<4	0	<4	<4	<4	<4	<4
76	Y	Place selected for comparision	M	A	Whole body	2.1	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
77	Y	Place selected for comparision	M	A	Whole body	1.4	<4	<4	<4	<4	<4	0	<4	<4	<4	<4	<4
78	Y	Place selected for comparision	M	A	Whole body	1.3	<4	<4	<4	<4	<4	0	<4	<4	<4	<4	<4
79	N	Place selected for comparision	F	A	Whole body	0.74	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
80	N	Place selected for comparision	F	A	Whole body	0.84	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
81	N	Place selected for comparision	F	A	Whole body	0.85	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
82	N	Place selected for comparision	F	A	Whole body	0.84	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
83	N	Place selected for comparision	F	A	Whole body	0.78	<4	<4	<4	<4	<4	0	<4	<4	<4	<4	<4
84	N	Place selected for comparision	F	A	Whole body	0.86	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
85	N	Place selected for comparision	F	A	Whole body	1.0	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
86	N	Place selected for comparision	F	A	Whole body	0.96	<4	<4	<4	<4	<4	0	<4	<4	<4	<4	<4
87	N	Place selected for comparision	F	A	Whole body	0.83	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
88	N	Place selected for comparision	F	A	Whole body	0.66	<4	<4	<4	<4	<4	0	<4	<4	<4	<4	<4
89	N	Place selected for comparision	F	A	Whole body	2.5	–	–	–	–	–	–	–	–	–	–	–
90	N	Place selected for comparision	F	A	Whole body	0.69	–	–	–	–	–	–	–	–	–	–	–
91	N	Place selected for comparision	F	A	Whole body	2.4	–	–	–	–	–	–	–	–	–	–	–
92	Y	Place selected for comparision	F	A	Whole body	1.1	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
93	Y	Place selected for comparision	F	A	Whole body	1.7	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
94	Y	Place selected for comparision	F	A	Whole body	2.8	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
95	Y	Place selected for comparision	F	A	Whole body	0.87	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
96	Y	Place selected for comparision	F	A	Whole body	1.3	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
97	Y	Place selected for comparision	F	A	Whole body	0.77	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
98	Y	Place selected for comparision	F	A	Whole body	1.1	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
99	Y	Place selected for comparision	F	A	Whole body	1.2	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2
100	Y	Place selected for comparision	F	A	Whole body	1.1	<2	<2	<2	<2	<2	0	<2	<2	<2	<2	<2

Name of species N:Japanese brown frogs Y:Montane brown frogs

Results of 1998 Research on Effects of Endocrine Disrupting Chemicals on Wildlife (Frogs－5)

(Concentration per wet weight)

							No.	7		8				9	10	11	12	17	18
							SPEED'98 No.	18		19				23	25	26	43	9	11
								DDT		DDE and DDD									
No.	Name of species	Specimen collection site	Gender(M:Male、F:Female)	Age(A:Adult)	Specimen	Lipid		o,p'-DDT	p,p'-DDT	o,p'-DDE	p,p'-DDE	o,p'-DDD	p,p'-DDD	Dieldrin	Heptachlor	Heptachlor epoxide	Benzo(a)phrene	Atrazine	CAT(Simazine)
						Unit	%	μg/kg-wet											
1	N	Yamada Ryokuchi	M	A	Whole body	1.2		<4	18	<4	166	<4	5	<4	<4	<4	<4	<4	<2
2	N	Yamada Ryokuchi	M	A	Whole body	0.98		<4	<4	<4	4	<4	<4	<4	<4	<4	<4	<4	<2
3	N	Yamada Ryokuchi	M	A	Whole body	1.3		<4	<4	<4	5	<4	<4	<4	<4	<4	<4	<4	<2
4	N	Yamada Ryokuchi	M	A	Whole body	1.6		<4	<4	<4	12	<4	<4	<4	<4	<4	<4	<4	<2
5	N	Yamada Ryokuchi	M	A	Whole body	1.7		<4	5	<4	6	<4	<4	<4	<4	<4	<4	<4	<2
6	N	Yamada Ryokuchi	M	A	Whole body	1.0		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
7	N	Yamada Ryokuchi	M	A	Whole body	1.3		<4	<4	<4	15	<4	<4	<4	<4	<4	<4	<4	<2
8	N	Yamada Ryokuchi	M	A	Whole body	1.0		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
9	N	Yamada Ryokuchi	M	A	Whole body	1.2		<4	<4	<4	4	<4	<4	<4	<4	<4	<4	<4	<2
10	N	Yamada Ryokuchi	M	A	Whole body	0.94		<5	<5	<5	18	<5	<5	<5	<5	<5	<5	<5	<3
11	Y	Yamada Ryokuchi	M	A	Whole body	0.98		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
12	Y	Yamada Ryokuchi	M	A	Whole body	1.1		<4	8	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
13	Y	Yamada Ryokuchi	M	A	Whole body	1.0		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
14	Y	Yamada Ryokuchi	M	A	Whole body	1.4		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
15	Y	Yamada Ryokuchi	M	A	Whole body	1.2		<4	33	<4	150	<4	19	<4	<4	<4	<4	<4	<2
16	Y	Yamada Ryokuchi	M	A	Whole body	1.2		<4	<4	<4	6	<4	<4	<4	<4	<4	<4	<4	<2
17	Y	Yamada Ryokuchi	M	A	Whole body	0.99		<4	<4	<4	6	<4	<4	12	<4	<4	<4	<4	<2
18	Y	Yamada Ryokuchi	M	A	Whole body	0.87		<4	<4	<4	7	<4	<4	<4	<4	<4	<4	<4	<2
19	Y	Yamada Ryokuchi	M	A	Whole body	0.98		<4	10	<4	82	<4	7	<4	<4	<4	<4	<4	<2
20	Y	Yamada Ryokuchi	M	A	Whole body	0.84		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
21	N	Yamada Ryokuchi	F	A	Whole body	0.77		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
22	N	Yamada Ryokuchi	F	A	Whole body	0.65		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
23	N	Yamada Ryokuchi	F	A	Whole body	0.50		<4	8	<4	11	<4	<4	<4	<4	<4	<4	<4	<2
24	N	Yamada Ryokuchi	F	A	Whole body	1.1		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
25	N	Yamada Ryokuchi	F	A	Whole body	1.2		<4	19	<4	55	<4	<4	<4	<4	<4	<4	<4	<2
26	N	Yamada Ryokuchi	F	A	Whole body	0.64		<4	<4	<4	5	<4	<4	<4	<4	<4	<4	<4	<2
27	N	Yamada Ryokuchi	F	A	Whole body	0.85		<4	6	<4	5	<4	<4	<4	<4	<4	<4	<4	<2
28	N	Yamada Ryokuchi	F	A	Whole body	0.93		<2	17	<2	76	<2	4	<2	<2	<2	<2	<2	<1
29	N	Yamada Ryokuchi	F	A	Whole body	0.81		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
30	N	Yamada Ryokuchi	F	A	Whole body	1.2		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
31	N	Yamada Ryokuchi	F	A	Whole body	2.9		<2	3	<2	10	<2	<2	－	－	－	－	－	－
32	N	Yamada Ryokuchi	F	A	Whole body	2.1		<1	<1	<1	2	<1	<1	－	－	－	－	－	－
33	N	Yamada Ryokuchi	F	A	Whole body	2.6		<1	28	<1	185	<1	3	－	－	－	－	－	－
34	N	Yamada Ryokuchi	F	A	Whole body	3.2		<1	<1	<1	1	<1	<1	－	－	－	－	－	－
35	N	Yamada Ryokuchi	F	A	Whole body	2.2		<1	<1	<1	1	<1	<1	－	－	－	－	－	－
36	N	Yamada Ryokuchi	F	A	Whole body	2.0		<1	<1	<1	<1	<1	<1	－	－	－	－	－	－
37	N	Yamada Ryokuchi	F	A	Whole body	3.2		<1	<1	<1	1	<1	<1	－	－	－	－	－	－
38	N	Yamada Ryokuchi	F	A	Whole body	2.6		<1	<1	<1	6	<1	<1	－	－	－	－	－	－
39	Y	Yamada Ryokuchi	F	A	Whole body	1.6		<2	4	<2	4	<2	<2	<2	<2	<2	<2	<2	<0.5
40	Y	Yamada Ryokuchi	F	A	Whole body	0.94		<2	<2	<2	5	<2	<2	<2	<2	<2	<2	<2	<1
41	Y	Yamada Ryokuchi	F	A	Whole body	1.2		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
42	Y	Yamada Ryokuchi	F	A	Whole body	1.1		3	11	<2	7	<2	3	<2	<2	<2	<2	<2	<1
43	Y	Yamada Ryokuchi	F	A	Whole body	0.88		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
44	Y	Yamada Ryokuchi	F	A	Whole body	1.7		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
45	Y	Yamada Ryokuchi	F	A	Whole body	1.3		<2	<2	<2	2	<2	<2	<2	<2	<2	<2	<2	<1
46	Y	Yamada Ryokuchi	F	A	Whole body	0.72		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
47	Y	Yamada Ryokuchi	F	A	Whole body	0.84		<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
48	Y	Yamada Ryokuchi	F	A	Whole body	0.90		<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
49	Y	Yamada Ryokuchi	F	A	Whole body	0.64		<1	<1	<1	<1	<1	<1	－	－	－	－	－	－

Name of species N:Japanese brown frogs Y:Montane brown frogs

Results of 1998 Research on Effects of Endocrine Disrupting Chemicals on Wildlife (Frogs－6)

(Concentration per wet weight)

No.	Name of species	Specimen collection site	Gender(M:Male, F:Female)	Age(A:Adult)	Specimen	Lipid	o,p'-DDT	p,p'-DDT	o,p'-DDE	p,p'-DDE	o,p'-DDD	p,p'-DDD	Dieldrin	Heptachlor	Heptachlor epoxide	Benzo(a)pyrene	Atrazine	CAT (Simazine)
					No.		7		8				9	10	11	12	17	18
					SPEED'98 No.		18		19				23	25	26	43	9	11
							DDT		DDE and DDD									
					Unit	%	μg/kg-wet											
50	N	Place selected for comparision purpose	M	A	Whole body	1.3	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
51	N	Place selected for comparision purpose	M	A	Whole body	0.63	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
52	N	Place selected for comparision purpose	M	A	Whole body	1.0	<5	<5	<5	7	<5	<5	<5	<5	<5	<5	<5	<2.5
53	N	Place selected for comparision purpose	M	A	Whole body	0.70	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<2.5
54	N	Place selected for comparision purpose	M	A	Whole body	0.79	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<2.5
55	N	Place selected for comparision purpose	M	A	Whole body	1.2	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<2.5
56	N	Place selected for comparision purpose	M	A	Whole body	0.58	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
57	N	Place selected for comparision purpose	M	A	Whole body	0.84	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
58	N	Place selected for comparision purpose	M	A	Whole body	1.0	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
59	N	Place selected for comparision purpose	M	A	Whole body	1.0	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<2.5
60	N	Place selected for comparision purpose	M	A	Whole body	2.4	<1	<1	<1	2	<1	<1	－	－	－	－	－	－
61	N	Place selected for comparision purpose	M	A	Whole body	0.48	<1	<1	<1	<1	<1	<1	－	－	－	－	－	－
62	N	Place selected for comparision purpose	M	A	Whole body	1.2	<1	<1	<1	<1	<1	<1	－	－	－	－	－	－
63	N	Place selected for comparision purpose	M	A	Whole body	0.54	<1	<1	<1	<1	<1	<1	－	－	－	－	－	－
64	N	Place selected for comparision purpose	M	A	Whole body	0.67	<1	<1	<1	<1	<1	<1	－	－	－	－	－	－
65	N	Place selected for comparision purpose	M	A	Whole body	0.81	<1	1	<1	1	<1	<1	－	－	－	－	－	－
66	N	Place selected for comparision purpose	M	A	Whole body	0.86	<1	<1	<1	<1	<1	<1	－	－	－	－	－	－
67	N	Place selected for comparision purpose	M	A	Whole body	0.66	<1	<1	<1	<1	<1	<1	－	－	－	－	－	－
68	Y	Place selected for comparision purpose	M	A	Whole body	1.1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
69	Y	Place selected for comparision purpose	M	A	Whole body	1.2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
70	Y	Place selected for comparision purpose	M	A	Whole body	1.9	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
71	Y	Place selected for comparision purpose	M	A	Whole body	1.4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
72	Y	Place selected for comparision purpose	M	A	Whole body	1.4	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
73	Y	Place selected for comparision purpose	M	A	Whole body	1.5	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
74	Y	Place selected for comparision purpose	M	A	Whole body	1.1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
75	Y	Place selected for comparision purpose	M	A	Whole body	1.7	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
76	Y	Place selected for comparision purpose	M	A	Whole body	2.1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
77	Y	Place selected for comparision purpose	M	A	Whole body	1.4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
78	Y	Place selected for comparision purpose	M	A	Whole body	1.3	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
79	N	Place selected for comparision purpose	F	A	Whole body	0.74	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
80	N	Place selected for comparision purpose	F	A	Whole body	0.84	<2	<2	<2	<2	<2	<2	3	<2	<2	<2	<2	<1
81	N	Place selected for comparision purpose	F	A	Whole body	0.85	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
82	N	Place selected for comparision purpose	F	A	Whole body	0.84	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
83	N	Place selected for comparision purpose	F	A	Whole body	0.78	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
84	N	Place selected for comparision purpose	F	A	Whole body	0.86	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
85	N	Place selected for comparision purpose	F	A	Whole body	1.0	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
86	N	Place selected for comparision purpose	F	A	Whole body	0.96	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
87	N	Place selected for comparision purpose	F	A	Whole body	0.83	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
88	N	Place selected for comparision purpose	F	A	Whole body	0.66	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<4	<2
89	N	Place selected for comparision purpose	F	A	Whole body	2.5	<1	<1	<1	1	<1	<1	－	－	－	－	－	－
90	N	Place selected for comparision purpose	F	A	Whole body	0.69	<1	<1	<1	<1	<1	<1	－	－	－	－	－	－
91	N	Place selected for comparision purpose	F	A	Whole body	2.4	<1	<1	<1	1	<1	<1	－	－	－	－	－	－
92	Y	Place selected for comparision purpose	F	A	Whole body	1.1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5
93	Y	Place selected for comparision purpose	F	A	Whole body	1.7	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5
94	Y	Place selected for comparision purpose	F	A	Whole body	2.8	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5
95	Y	Place selected for comparision purpose	F	A	Whole body	0.87	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2
96	Y	Place selected for comparision purpose	F	A	Whole body	1.3	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5
97	Y	Place selected for comparision purpose	F	A	Whole body	0.77	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5
98	Y	Place selected for comparision purpose	F	A	Whole body	1.1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1
99	Y	Place selected for comparision purpose	F	A	Whole body	1.2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<0.5
100	Y	Place selected for comparision purpose	F	A	Whole body	1.1	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<1

Name of species N:Japanese brown frogs Y:Montane brown frogs

Results of 1998 Research on Effects of Endocrine Disrupting Chemicals on Wildlife (Frogs－7)

(Blood test)

No.	Name of species	Specimen collection site	Gender(M:Male、F:Female)	Number of specimens	29 Testosterone	30 17β—estradiol
SPEED'98 No.						
					ng/ml	pg/ml
1	N	Yamada Ryokuchi	M	2	0.93	27
2	N	Yamada Ryokuchi	M	3	37	29
3	N	Yamada Ryokuchi	M	4	25	16
4	Y	Yamada Ryokuchi	M	1	12	<13
5	Y	Yamada Ryokuchi	M	1	7.2	38
6	Y	Yamada Ryokuchi	M	1	9.4	18
7	Y	Yamada Ryokuchi	M	1	0.56	23
8	Y	Yamada Ryokuchi	M	1	58	23
9	Y	Yamada Ryokuchi	M	1	14	56
10	Y	Yamada Ryokuchi	M	2	28	35
11	N	Yamada Ryokuchi	F	1	0.31	34
12	N	Yamada Ryokuchi	F	2	0.38	143
13	N	Yamada Ryokuchi	F	3	0.26	49
14	Y	Yamada Ryokuchi	F	2	0.40	254
15	Y	Yamada Ryokuchi	F	1	2.0	<13
16	Y	Yamada Ryokuchi	F*	1	0.50	30
17	Y	Yamada Ryokuchi	F*	1	0.35	51
18	Y	Yamada Ryokuchi	F*	1	0.36	26

No.	Name of species	Specimen collection site	Gender(M:Male、F:Female)	Number of specimens	29 Testosterone	30 17β-estradiol
SPEED'98 No.						
					ng/ml	pg/ml
19	N	Place selected for comparision purposes	M	1	0.50	17
20	N	Place selected for comparision purposes	M	1	2.9	34
21	N	Place selected for comparision purposes	M	1	0.65	21
22	N	Place selected for comparision purposes	M	2	8.2	19
23	N	Place selected for comparision purposes	M	1	0.54	36
24	N	Place selected for comparision purposes	M	2	0.62	24
25	N	Place selected for comparision purposes	M	2	2.0	29
26	Y	Place selected for comparision purposes	M	1	4.8	<13
27	Y	Place selected for comparision purposes	M	1	1.4	<13
28	Y	Place selected for comparision purposes	M	2	5.9	<13
29	N	Place selected for comparision purposes	F*	1	0.29	36
30	N	Place selected for comparision purposes	F*	1	0.50	25
31	N	Place selected for comparision purposes	F*	2	0.48	23
32	N	Place selected for comparision purposes	F*	3	0.43	47
33	Y	Place selected for comparision purposes	F*	1	0.53	24
34	Y	Place selected for comparision purposes	F	1	0.35	43
35	Y	Place selected for comparision purposes	F	1	0.70	39
36	Y	Place selected for comparision purposes	F	1	0.68	54
37	Y	Place selected for comparision purposes	F	1	0.73	60

Name of species N:Japanese brown frogs Y:Montane brown frogs

* Egg-laying completed