

(News Release)
The Results of Radioactive Material Monitoring of the Surface Water Bodies
within Fukushima Prefecture
(July-September Samples)

<Simultaneously released to the Fukushima Prefecture Press Club>

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In accordance with the Comprehensive Radiation Monitoring Plan determined by the Monitoring Coordination Meeting, the Ministry of the Environment (MOE) is continuing to monitor radioactive materials in water environments (surface water bodies (rivers, lakes and headwaters, and coasts), etc.).

Samples taken from the surface water bodies of Fukushima Prefecture during the period of July 2-September 25, 2013 have been measured as part of MOE's efforts to monitor radioactive materials; the results have recently been compiled and are released here.

The monitoring results of radioactive materials in surface water bodies carried out to date can be found at the following web page: <http://www.env.go.jp/jishin/rmp.html#monitoring>

1. Survey Overview

(1) Survey Locations

207 environmental reference points, etc. in the surface water bodies within Fukushima Prefecture
(Rivers: 123 locations, Lakes and headwaters: 84 locations)

(2) Survey Method

- Measurement of concentrations of radioactive materials (radioactive cesium (Cs-134 and Cs-137)) in water and sediment
- Measurement of concentrations of radioactive materials and spatial dose-rate in soil in the surrounding environment of water and sediment sample collection points (river terraces, etc.)

2. Outline of Results (* denotes the results of the previous survey (April-June, 2013))

(1) Water Quality (Lower detection limit: 1Bq/L)

Radioactive materials were not detectable (ND) at almost all locations, but were detectable in water with high levels of suspended solids (SS) and turbidity at some locations, such as the area around the Tokyo Electric Power Company's Fukushima Daiichi Nuclear Power Station.

In the case of lakes and headwaters in particular, radioactive materials were detected at locations prone to higher turbidity, such as those with substrata and those where the water is shallow.

(Rivers)

Cs-134 + Cs-137: ND-5Bq/L (* ND-2Bq/L)

(Lakes and headwaters)

Cs-134 + Cs-137: ND-19Bq/L (* ND-47Bq/L)

<Reference>

Specification and Standards for Food, Food Additives, etc. in accordance with the Food Sanitation Act (Drinking Water) (Ministry of Health, Labour and Welfare Public Notice No.130, March 15, 2012)

Radioactive cesium (total for Cs-134+Cs-137): 10Bq/kg

Target value for radioactive materials in tap water (management target for water supply facilities) (March 5, 2012; 0305 Notice No.1 from the Director of the Water Supply Division, Health Service Bureau, Ministry of Health, Labour and Welfare)

Radioactive cesium (total for Cs-134+Cs-137): 10Bq/kg

(2) Sediment (Lower detection limit: 10Bq/kg (dried mud))

At the majority of locations in rivers, and lakes/headwaters, the levels were around 2,000Bq/kg or below, but high figures were seen at some locations, such as the area around the Tokyo Electric Power Company's Fukushima Daiichi Nuclear Power Station.

In terms of the overall trend, levels in rivers and lakes/headwaters have generally remained constant or declined. Some variation in the fluctuation was observed in lakes/headwaters; in particular, substantial fluctuations could be seen at some locations, such as the area around the Tokyo Electric Power Company's Fukushima Daiichi Nuclear Power Station. Overall, no major increases were observed.

(Rivers)

Cs-134 + Cs-137: ND-37,000Bq/kg (dried mud) (*ND-33,000Bq/kg (dried mud))

(Lakes and headwaters)

Cs-134 + Cs-137: ND-279,000Bq/kg (dried mud) (*ND-460,000Bq/kg (dried mud))

<Reference> Number of locations by radioactive cesium concentration (1,000Bq/kg)
Numbers in () denote results measured on the previous occasion.

	1000 or below	1,001 -2,000	2,001 -3,000	3,001 -4,000	4,001 -5,000	5,001 or more	Total
Rivers	150 (195)	12 (20)	4 (14)	3 (2)	2 (2)	12 (11)	183 (244)
Lakes and headwaters	60 (66)	10 (17)	10 (7)	2 (7)	7 (4)	46 (42)	135 (143)

(3) Surrounding Environment (Lower detection limit: 10Bq/kg (dry))

(Rivers)

Cs-134 + Cs-137: 11-126,000Bq/kg (dry) (*ND-174,000Bq/kg (dry))

Spatial dose: 0.05-8.04μSv/h

(Lakes and headwaters)

Cs-134 + Cs-137: ND-320,000Bq/kg (dry) (*16-310,000Bq/kg (dry))

Spatial dose: 0.05-23.64μSv/h

(Annex for details)
(Map attached)

Future Plans

MOE intends to continue to measure radioactive materials in water, sediment, etc. in rivers, lakes, etc., since concentrations of radioactive materials seem to show fluctuations, depending on locations, due to minor differences in sampling points or properties of samples of each survey.

○River (Fukushima Prefecture, Hamadori Area): Water Quality Monitoring Results

Sampling point				Sampling date	Weather	Full depth (m)	General items					Radioactive material concentrations (Bq/L)		Remarks
No.	Water body	Point	Municipality				Sampling depth (m)	Transparency (cm)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity	Radioactive cesium		
												Cs134	Cs137	
1	Jizogawa River	Hamahatabashi Bridge	Shinchimachi Town	2013/8/6	Light rain	2.5	0.0	48	395	9	4	<1	<1	
2	Koizumigawa River	Koizumbashi Bridge	Somashi City	2013/8/6	Light rain	0.5	0.0	48	20	13	6	<1	<1	
3		Hyakkenbashi Bridge		2013/8/6	Cloudy	0.9	0.0	35	641	13	9	<1	<1	
4	Udagawa River	Horisakabashi Bridge		2013/8/6	Cloudy	0.5	0.0	90	10	<1	2	<1	<1	
5		Hyakkenbashi Bridge	2013/8/6	Cloudy	1.0	0.0	52	66	3	4	<1	<1		
6	Manogawa River	Ochiaibashi Bridge	Minamisomashi City	2013/8/2	Cloudy	1.2	0.0	>100	11	4	2	<1	<1	
7		Majimabashi Bridge		2013/8/5	Cloudy	2.0	0.0	>100	610	3	2	<1	<1	
8	Niidagawa River	Kusano	Iitatemura Village	2013/8/5	Cloudy	1.0	0.0	91	7	6	3	<1	<1	
9		Komiya		2013/8/8	Sunny	0.7	0.0	63	8	7	3	<1	<1	
10		Kidouchibashi Bridge	Minamisomashi City	2013/8/5	Cloudy	1.5	0.0	>100	8	3	2	<1	<1	
11	Sakekawabashi Bridge	2013/8/2		Cloudy	0.5	0.0	51	11	13	6	<1	<1		
12	Ishiwatabashi Bridge	2013/8/1		Cloudy	0.8	0.0	>100	7	2	2	<1	<1		
13	Otagawa River	Kaminouchihashi Bridge	Minamisomashi City	2013/8/2	Cloudy	0.5	0.0	84	9	1	1	<1	<1	
14		Masudabashi Bridge		2013/8/1	Cloudy	1.0	0.0	89	11	4	4	<1	<1	
15		JR Tetsudobashi Bridge		2013/8/2	Cloudy	0.3	0.0	>100	11	4	3	<1	<1	
16		Maruyamabashi Bridge		2013/8/2	Cloudy	0.2	0.0	46	47	12	10	<1	<1	
17		Shimokawarabashi Bridge		2013/8/7	Sunny	0.5	0.0	73	10	2	1	<1	<1	
18	Odakagawa River	Zenchobashi Bridge	Namiemachi Town	2013/8/7	Sunny	0.3	0.0	86	12	6	4	<1	<1	
19		Hatsukarabashi Bridge		2013/8/7	Sunny	1.0	0.0	50	2	6	5	<1	<1	
20	Ukedogawa River	Muroharabashi Bridge		2013/7/11	Cloudy	0.6	0.0	>100	6	1	1	<1	<1	
21			Ukedobashi Bridge	2013/8/27	Sunny	0.2	0.0	>100	6	2	1	<1	<1	
		2013/9/19	Sunny	0.6	0.0	42	5	12	8	1	4			
		2013/7/11	Cloudy	0.7	0.0	>100	13	6	3	<1	<1			
2013/8/27		Sunny	0.6	0.0	93	12	6	3	<1	<1				
2013/9/19	Sunny	0.3	0.0	48	6	25	8	2	3					
22	Furumichigawa River	Before the confluence with Takasegawa River (Miyakojimachi Town furumichishitadaira)	Tamurashi City	2013/8/28	Sunny	0.5	0.0	>100	9	3	2	<1	<1	
23	Takasegawa River	Keiobashi Bridge	Namiemachi Town	2013/8/27	Sunny	0.3	0.0	>100	8	5	1	<1	<1	
24	Maedagawa River	National Route 6, west	Futabamachi Town	2013/8/27	Sunny	0.3	0.0	93	14	6	3	<1	2	
25		Nakahamabashi Bridge	Namiemachi Town	2013/8/30	Sunny	1.1	0.0	71	277	5	6	<1	<1	
26	Kumagawa River	National Route 6, west	Okumamachi Town	2013/8/30	Sunny	0.3	0.0	>100	9	<1	1	<1	<1	
27		Mikumabashi Bridge		2013/8/30	Sunny	0.4	0.0	>100	11	<1	1	<1	<1	
28	Tomiokagawa River	Nabekurabashi Bridge	Kawauchimura Village	2013/8/29	Sunny	0.3	0.0	>100	5	<1	0	<1	<1	
29		Sakaigawabashi Bridge		2013/8/29	Cloudy	0.4	0.0	>100	7	2	1	<1	<1	
30		National Route 6, west	Tomiokamachi Town	2013/8/29	Sunny	0.3	0.0	>100	9	2	2	<1	<1	
31		Kobamabashi Bridge		2013/8/29	Sunny	0.3	0.0	>100	10	2	2	<1	<1	
32	Idegawa River	Motogamabashi Bridge	Narahamachi Town	2013/8/28	Sunny	0.3	0.0	>100	10	<1	0	<1	<1	
33	Kawauchigawa River	Before the confluence with Kidogawa River (Futamatubashi Bridge)	Kawauchimura Village	2013/8/29	Sunny	0.3	0.0	>100	5	<1	0	<1	<1	
34	Kidogawa River	Nishiyamabashi Bridge		2013/8/29	Sunny	0.5	0.0	>100	5	12	2	<1	<1	
35		Nagatorobashi Bridge	Narahamachi Town	2013/8/28	Sunny	0.2	0.0	>100	6	1	2	<1	<1	
36		Kidokawabashi Bridge		2013/8/28	Sunny	0.2	0.0	>100	6	2	2	<1	<1	

○River (Fukushima Prefecture, Hamadori Area): Water Quality Monitoring Results

Sampling point				Sampling date	Weather	Full depth (m)	General items					Radioactive material concentrations (Bq/L)		Remarks
No.	Water body	Point	Municipality				Sampling depth (m)	Transparency (cm)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity	Radioactive cesium		
												Cs134	Cs137	
37	Asamigawa River	Bodabashi Bridge	Hironomachi Town	2013/7/10	Sunny	0.4	0.0	63	11	9	4	<1	<1	
				2013/8/14	Sunny	0.2	0.0	>100	11	1	1	<1	<1	
38	Ohisagawa River	Kageisobashi Bridge	Iwakishi City	2013/7/16	Cloudy	0.5	0.0	45	222	7	6	<1	<1	
				2013/8/14	Sunny	0.5	0.0	69	139	2	3	<1	<1	
39	Kohisagawa River	Rengobashi Bridge	Iwakishi City	2013/7/10	Sunny	0.4	0.0	74	44	6	3	<1	<1	
				2013/8/14	Sunny	0.4	0.0	56	37	6	6	<1	<1	
40	Niidagawa River	Kasumidabashi Bridge	Iwakishi City	2013/7/17	Cloudy	0.6	0.0	50	25	8	5	<1	<1	
				2013/8/14	Sunny	0.3	0.0	54	21	9	4	<1	<1	
41	Niidagawa River	Matsubabashi Bridge	Iwakishi City	2013/7/16	Cloudy	0.5	0.0	38	879	11	9	<1	<1	
				2013/8/14	Sunny	0.9	0.0	39	208	12	6	<1	<1	
42	Natsugawa River	Kitanouchibashi Bridge	Onomachi Town	2013/7/8	Light rain	0.6	0.0	16	7	32	18	<1	<1	
				2013/8/25	Sunny	0.4	0.0	98	15	4	3	<1	<1	
43	Natsugawa River	Kyudayubashi Bridge	Iwakishi City	2013/7/10	Sunny	0.9	0.0	71	25	4	2	<1	<1	
				2013/8/16	Sunny	0.6	0.0	>100	13	2	2	<1	<1	
44	Natsugawa River	Rokujumabashi Bridge	Iwakishi City	2013/7/10	Sunny	0.6	0.0	76	37	8	4	<1	<1	
				2013/8/25	Sunny	0.6	0.0	81	21	6	3	<1	<1	
45	Yoshimagawa River	Iwaanatsuribashi Bridge	Iwakishi City	2013/7/8	Sunny	0.6	0.0	>100	6	7	3	<1	<1	
				2013/8/16	Sunny	0.5	0.0	>100	11	1	1	<1	<1	
46	Yoshimagawa River	Before the confluence with Natsugawa River	Iwakishi City	2013/7/19	Sunny	0.4	0.0	73	24	6	2	<1	<1	
				2013/8/16	Sunny	0.4	0.0	>100	20	3	2	<1	<1	
47	Fujiwaragawa River	Shimabashi Bridge	Iwakishi City	2013/7/19	Sunny	0.1	0.0	37	137	21	9	<1	<1	
				2013/8/15	Sunny	0.5	0.0	52	86	6	5	<1	<1	
48	Fujiwaragawa River	Minatoohashi Bridge	Iwakishi City	2013/7/17	Cloudy	1.5	0.0	42	2,320	8	5	<1	<1	
				2013/8/13	Sunny	2.9	0.0	31	26	21	30	<1	<1	
49	Samegawa River	Idosawabashi Bridge	Iwakishi City	2013/7/18	Cloudy	3.3	0.0	76	15	5	3	<1	<1	
				2013/8/15	Sunny	1.1	0.0	80	12	4	3	<1	<1	
50	Samegawa River	Samegawabashi Bridge	Iwakishi City	2013/7/9	Sunny	0.3	0.0	21	600	13	11	<1	<1	
				2013/8/15	Sunny	0.5	0.0	61	555	4	4	<1	<1	
51	Shitokigawa River	Komurobashi Bridge	Iwakishi City	2013/7/23	Cloudy	0.6	0.0	33	81	54	35	<1	<1	
				2013/8/15	Sunny	0.3	0.0	>100	8	<1	0	<1	<1	
52	Bindagawa River	Kobanabashi Bridge	Iwakishi City	2013/7/9	Sunny	0.6	0.0	45	24	8	6	<1	<1	
				2013/8/13	Sunny	0.4	0.0	58	27	2	3	<1	<1	
53	Bindagawa River	Bindabashi Bridge	Iwakishi City	2013/7/9	Sunny	1.8	0.0	50	212	6	4	<1	<1	
				2013/8/15	Sunny	1.6	0.0	59	280	5	5	<1	<1	

• Sampling points for rivers are listed from north to south, and for different points along the river, from upstream to downstream.

• Radioactive materials concentrations contain some measurement errors but are not noted here.

○River (Fukushima Prefecture, Hamadori Area) : Sediment Monitoring Results

Sampling point				Sampling date	Weather	Full depth (m)	General items			Concentration of radioactive material [Bq/kg (dried mud)]			Remarks
No.	Water body	Point	Municipality				Mud sampling depth (cm)	Mud content %	Property	Radioactive cesium			
										Cs-134	Cs-137	Total	
1	Jizogawa River	Hamahatabashi Bridge	Shinchimachi Town	2013/8/6	Light rain	2.5	10	72	Sand/silt	41	110	151	
2	Koizumigawa River	Koizumibashi Bridge	Somashi City	2013/8/6	Light rain	0.5	10	56	Silt	460	940	1,400	
3		Hyakkenbashi Bridge		2013/8/6	Cloudy	0.9	10	64	Silt	330	710	1,040	
4	Udagawa River	Horisakabashi Bridge		2013/8/6	Cloudy	0.5	10	79	Sand	55	110	165	
5		Hyakkenbashi Bridge		2013/8/6	Cloudy	1.0	10	81	Sand	24	60	84	
6	Manogawa River	Ochiaibashi Bridge		Minamisomashi City	2013/8/2	Cloudy	1.2	10	84	Gravel/sand	80	170	250
7		Majimabashi Bridge	2013/8/5	Cloudy	2.0	10	33	Silt	2,100	4,700	6,800		
8	Niidagawa River	Kusano	Iitatemura Village	2013/8/5	Cloudy	1.0	10	91	Sand	340	670	1,010	
9		Komiya	2013/8/8	Sunny	0.7	10	76	Sand	1,000	2,300	3,300		
10		Kidouchibashi Bridge	2013/8/5	Cloudy	1.5	10	75	Sand	940	2,100	3,040		
11	Otagawa River	Sakekawabashi Bridge	Minamisomashi City	2013/8/2	Cloudy	0.5	10	47	Silt/sand	3,000	6,500	9,500	
12		Ishiwatadobashi Bridge		2013/8/1	Cloudy	0.8	10	74	Sand	3,300	7,000	10,300	
13		Kaminouchihashi Bridge		2013/8/2	Cloudy	0.5	10	78	Sand	4,500	9,800	14,300	
14		Masudabashi Bridge		2013/8/1	Cloudy	1.0	10	50	Sand/silt	1,400	3,100	4,500	
15		JR Tetsudobashi Bridge		2013/8/2	Cloudy	0.3	10	69	Sand/silt	890	1,900	2,790	
16	Odakagawa River	Maruyamabashi Bridge	Minamisomashi City	2013/8/2	Cloudy	0.2	10	78	Sand	27	57	84	
17		Shimokawarabashi Bridge		2013/8/7	Sunny	0.5	10	84	Sand	380	930	1,310	
18		Zenchobashi Bridge		2013/8/7	Sunny	0.3	10	81	Sand	140	290	430	
19	Ukedogawa River	Hatsukarabashi Bridge	Namiemachi Town	2013/8/7	Sunny	1.0	10	80	Sand	<10	<10	-	
20		Muroharabashi Bridge		2013/7/11	Cloudy	0.6	5	83	Gravel/sand	4,400	9,500	13,900	
20				2013/8/27	Sunny	0.2	3	87	Gravel/sand	3,700	8,200	11,900	
20				2013/9/19	Sunny	0.6	10	78	Gravel/sand	2,500	5,800	8,300	
21		Ukedobashi Bridge		2013/7/11	Cloudy	0.7	5	67	Sand/silt	4,700	10,000	14,700	
21				2013/8/27	Sunny	0.6	3	75	Sand/silt	4,300	9,700	14,000	
21	2013/9/19		Sunny	0.3	10	39	Silt/sand	11,000	26,000	37,000			
22	Furumichigawa River	Before the confluence with Takasegawa River (Miyakojimachi Town furumichishitadaira)	Tamurashi City	2013/8/28	Sunny	0.5	3	78	Sand/gravel	62	120	182	
23	Takasegawa River	Keiobashi Bridge	Namiemachi Town	2013/8/27	Sunny	0.3	3	85	Gravel/sand	350	790	1,140	
24	Maedagawa River	National Route 6, west	Futabamachi Town	2013/8/27	Sunny	0.3	3	82	Gravel/sand	1,400	3,100	4,500	
25		Nakahamabashi Bridge	Namiemachi Town	2013/8/30	Sunny	1.1	3	77	Sand/silt	1,800	4,200	6,000	
26	Kumagawa River	National Route 6, west	Okumamachi Town	2013/8/30	Sunny	0.3	3	83	Gravel/sand	540	1,200	1,740	
27		Mikumabashi Bridge		2013/8/30	Sunny	0.4	3	90	Gravel/sand	1,100	2,600	3,700	
28	Tomiokagawa River	Nabekurabashi Bridge	Kawauchimura Village	2013/8/29	Sunny	0.3	3	79	Gravel/sand	79	160	239	
29		Sakaigawabashi Bridge		2013/8/29	Cloudy	0.4	3	86	Gravel/sand	120	280	400	
30		National Route 6, west	Tomiokamachi Town	2013/8/29	Sunny	0.3	3	80	Gravel/sand	670	1,500	2,170	
31	Kobamabashi Bridge	2013/8/29		Sunny	0.3	3	82	Gravel/sand	830	1,900	2,730		
32	Idegawa River	Motogamabashi Bridge	Narahamachi Town	2013/8/28	Sunny	0.3	3	80	Gravel/sand	200	440	640	

○River (Fukushima Prefecture, Hamadori Area) : Sediment Monitoring Results

Sampling point				Sampling date	Weather	Full depth (m)	General items			Concentration of radioactive material [Bq/kg (dried mud)]			Remarks
No.	Water body	Point	Municipality				Mud sampling depth (cm)	Mud content %	Property	Radioactive cesium			
										Cs-134	Cs-137	Total	
33	Kawauchigawa River	Before the confluence with Kidogawa River (Futamatabashi Bridge)	Kawauchimura Village	2013/8/29	Sunny	0.3	3	80	Gravel/sand	44	110	154	
34		Nishiyamabashi Bridge		2013/8/29	Sunny	0.5	3	77	Sand	31	77	108	
35	Kidogawa River	Nagatorobashi Bridge	Narahamachi Town	2013/8/28	Sunny	0.2	3	95	Gravel/sand	30	80	110	
36		Kidokawabashi Bridge		2013/8/28	Sunny	0.2	3	83	Gravel/sand	66	160	226	
37	Asamigawa River	Bodabashi Bridge	Hironomachi Town	2013/7/10	Sunny	0.4	3	78	Sand/gravel	120	260	380	
				2013/8/14	Sunny	0.2	3	89	Gravel/sand	33	95	128	
38	Ohisagawa River	Kageisobashi Bridge		2013/7/16	Cloudy	0.5	5	87	Gravel	80	180	260	
				2013/8/14	Sunny	0.5	5	92	Gravel	75	160	235	
39	Kohisagawa River	Rengobashi Bridge		2013/7/10	Sunny	0.4	5	82	Gravel/sand	54	150	204	
				2013/8/14	Sunny	0.4	10	83	Gravel/sand	73	170	243	
40	Niidagawa River	Kasumidabashi Bridge	Iwakishi City	2013/7/17	Cloudy	0.6	3	91	Gravel/sand	18	39	57	
41				Matsubashi Bridge	2013/8/14	Sunny	0.3	3	92	Gravel/sand	10	31	41
		2013/7/16			Cloudy	0.5	5	80	Silt/sand	68	160	228	
2013/8/14		Sunny		0.9	10	86	Gravel/sand	61	150	211			
42		Kitanouchibashi Bridge	Onomachi Town	2013/7/8	Light rain	0.6	5	61	Sand/silt	69	150	219	
				2013/8/25	Sunny	0.4	10	89	Gravel/sand	<10	12	12	
43	Natsugawa River	Kyudayubashi Bridge		2013/7/10	Sunny	0.9	10	83	Gravel/sand	<10	13	13	
				2013/8/16	Sunny	0.6	10	80	Sand	<10	<10	-	
44		Rokujumabashi Bridge		2013/7/10	Sunny	0.6	10	78	Sand	24	70	94	
				2013/8/25	Sunny	0.6	10	82	Sand	19	46	65	
45	Yoshimagawa River	Iwaanatsuribashi Bridge		2013/7/8	Sunny	0.6	5	75	Gravel/sand	54	110	164	
				2013/8/16	Sunny	0.5	2	88	Sand/gravel	13	34	47	
46		Before the confluence with Natsugawa River		2013/7/19	Sunny	0.4	3	82	Gravel/sand	25	38	63	
				2013/8/16	Sunny	0.4	5	74	Sand	53	110	163	
47	Fujiwaragawa River	Shimabashi Bridge		2013/7/19	Sunny	0.1	3	74	Sand	32	64	96	
				2013/8/15	Sunny	0.5	5	72	Sand	49	95	144	
48		Minatoohashi Bridge	Iwakishi City	2013/7/17	Cloudy	1.5	10	71	Silt/sand	43	96	139	
				2013/8/13	Sunny	2.9	10	49	Silt/sand	240	530	770	
49	Samegawa River	Idosawabashi Bridge		2013/7/18	Cloudy	3.3	5	72	Sand	78	200	278	
				2013/8/15	Sunny	1.1	5	83	Gravel	10	31	41	
50		Samegawabashi Bridge		2013/7/9	Sunny	0.3	5	79	Sand	32	77	109	
				2013/8/15	Sunny	0.5	3	85	Sand/gravel	12	34	46	
51	Shitokigawa River	Komurobashi Bridge		2013/7/23	Cloudy	0.6	5	75	Sand/gravel	18	41	59	
				2013/8/15	Sunny	0.3	5	82	Sand	16	36	52	
52	Bindagawa River	Kobanabashi Bridge		2013/7/9	Sunny	0.6	5	81	Gravel/sand	33	80	113	
				2013/8/13	Sunny	0.4	10	35	Sand/gravel	130	320	450	
53		Bindabashi Bridge		2013/7/9	Sunny	1.8	10	69	Silt/sand	210	410	620	
				2013/8/15	Sunny	1.6	10	53	Silt/sand	380	830	1,210	

• Sampling points for rivers are listed from north to south, and for different points along the river, from upstream to downstream.

• Radioactive materials concentrations contain some measurement errors but are not noted here.

○River (Fukushima Prefecture, Hamadori Area): Surrounding Environment Monitoring Results

Sampling point				Sampling date	Weather	Left bank					Right bank					Remarks		
No.	Water body	Point	Municipality			Property	Concentration of radioactive material [Bq/kg (dry)]				Property	Concentration of radioactive material [Bq/kg (dry)]						
							Radioactive cesium			Air dose (μ Sv/h)		Radioactive cesium			Air dose (μ Sv/h)			
							Cs134	Cs137	Total			Cs134	Cs137	Total				
1	Jizogawa River	Hamahatabashi Bridge	Shinchimachi Town	2013/8/6	Light rain	Loamy	410	880	1,290	0.18	Loamy	740	1,600	2,340	0.11			
2	Koizumigawa River	Koizumbashi Bridge	Somashi City	2013/8/6	Light rain	Loamy	1,200	2,300	3,500	0.25	Loamy	650	1,400	2,050	0.21			
3		Hyakkenbashi Bridge		2013/8/6	Cloudy	Loamy	850	1,800	2,650	0.23	Loamy	280	580	860	0.21			
4	Udagawa River	Horisakabashi Bridge		2013/8/6	Cloudy	Loamy	1,000	2,200	3,200	0.23	Loamy	890	1,900	2,790	0.26			
5		Hyakkenbashi Bridge		2013/8/6	Cloudy	Loamy	1,200	2,700	3,900	0.21	Loamy	430	950	1,380	0.22			
6	Manogawa River	Ochiaibashi Bridge	Minamisomashi City	2013/8/2	Cloudy	Loamy	530	1,200	1,730	0.36	Loamy	1,700	3,600	5,300	0.65			
7		Majimabashi Bridge		2013/8/5	Cloudy	Loamy	390	910	1,300	0.19	Loamy	960	2,100	3,060	0.20			
8	Niidagawa River	Kusano	litatemura Village	2013/8/5	Cloudy	Loamy	2,400	5,000	7,400	1.37	Loamy	4,100	9,100	13,200	2.09			
9		Komiya		2013/8/8	Sunny	Loamy	7,500	16,000	23,500	2.50	Loamy	1,000	2,200	3,200	3.05			
10		Kidouchibashi Bridge		2013/8/5	Cloudy	Loamy	1,300	2,800	4,100	0.60	Loamy	1,900	4,100	6,000	0.81			
11		Sakekawabashi Bridge		2013/8/2	Cloudy	Sandy	31	54	85	0.10	Loamy	700	1,600	2,300	0.39			
12	Otagawa River	Ishiwatadobashi Bridge	Minamisomashi City	2013/8/1	Cloudy	Loamy	3,000	6,900	9,900	0.91	Loamy	4,100	9,400	13,500	1.16			
13		Kaminouchihashi Bridge			2013/8/2	Cloudy	Loamy	800	1,800	2,600	0.60	Loamy	980	2,100	3,080	0.45		
14		Masudabashi Bridge			2013/8/1	Cloudy	Sandy/loamy	43	94	137	0.16	Loamy	560	1,300	1,860	0.28		
15		JR Tetsudobashi Bridge			2013/8/2	Cloudy	Loamy	420	940	1,360	0.30	Loamy	370	860	1,230	0.30		
16		Maruyamabashi Bridge			2013/8/2	Cloudy	Loamy	87	180	267	0.13	Loamy	130	280	410	0.11		
17	Odakagawa River	Shimokawarabashi Bridge		2013/8/7	Sunny	Loamy	4,900	11,000	15,900	1.37	Loamy	1,400	3,100	4,500	0.68			
18		Zenchobashi Bridge		2013/8/7	Sunny	Loamy	430	950	1,380	0.30	Loamy	740	1,700	2,440	0.42			
19		Hatsukarabashi Bridge		2013/8/7	Sunny	Sandy	13	27	40	0.08	Sandy	390	850	1,240	0.14			
20	Ukedogawa River	Muroharabashi Bridge	Namiemachi Town	2013/7/11	Cloudy	Loamy	24,000	52,000	76,000	6.00	Loamy	18,000	41,000	59,000	6.50			
						2013/8/27	Sunny	Loamy	15,000	35,000	50,000	5.46	Loamy	17,000	39,000	56,000	6.87	
						2013/9/19	Sunny	Loamy	38,000	88,000	126,000	5.19	Loamy	34,000	81,000	115,000	6.21	
					2013/7/11	Cloudy	Loamy	350	780	1,130	0.87	Loamy	300	660	960	0.56		
21				Ukedobashi Bridge		2013/8/27	Sunny	Loamy	840	1,900	2,740	0.68	Loamy	860	2,000	2,860	0.49	
				2013/9/19	Sunny	Loamy	590	1,400	1,990	0.70	Loamy	1,000	2,300	3,300	0.46			
22	Furumichigawa River	<small>Before the confluence with Takagawa River (Myakojima Town furumichi/obanasa)</small>	Tamurashi City	2013/8/28	Sunny	Loamy	1,700	3,800	5,500	0.47	Loamy	1,400	3,100	4,500	0.37			
23	Takasegawa River	Keiobashi Bridge	Namiemachi Town	2013/8/27	Sunny	Loamy	860	1,900	2,760	0.90	Loamy	1,300	2,800	4,100	0.73			
24	Maedagawa River	National Route 6, west	Futabamachi Town	2013/8/27	Sunny	Loamy	26,000	62,000	88,000	5.81	Loamy	26,000	63,000	89,000	6.44			
25		Nakahamabashi Bridge	Namiemachi Town	2013/8/30	Sunny	Clay-loamy	5,600	13,000	18,600	0.49	Sandy	610	1,300	1,910	1.50			
26	Kumagawa River	National Route 6, west	Okumamachi Town	2013/8/30	Sunny	Loamy	6,400	14,000	20,400	2.43	Loamy	25,000	55,000	80,000	3.87			
27		Mikumabashi Bridge			2013/8/30	Sunny	Loamy	14,000	30,000	44,000	7.57	Loamy	17,000	39,000	56,000	8.04		
28	Tomiokagawa River	Nabekurabashi Bridge	Kawauchimura Village	2013/8/29	Sunny	Loamy	1,700	3,700	5,400	0.38	Loamy	990	2,200	3,190	0.48			
29		Sakaigawabashi Bridge		2013/8/29	Cloudy	Loamy	5,000	11,000	16,000	3.09	Loamy	12,000	27,000	39,000	3.18			
30		National Route 6, west	Tomiokamachi Town	2013/8/29	Sunny	Loamy	15,000	33,000	48,000	3.62	Sandy	4,200	9,300	13,500	2.82			
31		Kobamabashi Bridge		2013/8/29	Sunny	Loamy	4,900	11,000	15,900	1.48	Loamy	1,600	3,500	5,100	0.86			
32	Idegawa River	Motogamabashi Bridge	Narahamachi Town	2013/8/28	Sunny	Loamy	4,700	10,000	14,700	0.63	Loamy	1,900	4,300	6,200	0.59			
33	Kawauchigawa River	<small>Before the confluence with Kidogawa River (Futamatabashi Bridge)</small>	Kawauchimura Village	2013/8/29	Sunny	Loamy	1,000	2,100	3,100	0.52	Loamy	250	540	790	0.31			
34	Kidogawa River	Nishiyabashi Bridge	Narahamachi Town	2013/8/29	Sunny	Loamy	760	1,700	2,460	0.24	Loamy	1,100	2,500	3,600	0.35			
35		Nagatorobashi Bridge			2013/8/28	Sunny	Loamy	1,700	3,700	5,400	0.56	Loamy	1,200	2,700	3,900	0.39		
36			Kidokawabashi Bridge		2013/8/28	Sunny	Loamy	700	1,500	2,200	0.41	Loamy	1,400	3,100	4,500	0.38		

○River (Fukushima Prefecture, Hamadori Area): Surrounding Environment Monitoring Results

Sampling point				Sampling date	Weather	Left bank				Right bank				Remarks		
No.	Water body	Point	Municipality			Property	Concentration of radioactive material [Bq/kg (dry)]			Air dose (μSv/h)	Property	Concentration of radioactive material [Bq/kg (dry)]			Air dose (μSv/h)	
							Radioactive cesium					Radioactive cesium				
							Cs134	Cs137	Total			Cs134	Cs137			Total
37	Asamigawa River	Bodabashi Bridge	Hironomachi Town	2013/7/10	Sunny	Sandy	720	1,600	2,320	0.26	Sandy	1,500	3,400	4,900	0.43	
				2013/8/14	Sunny	Sandy	820	1,700	2,520	0.36	Sandy	2,700	5,600	8,300	0.47	
38	Ohisagawa River	Kageisobashi Bridge	Iwakishi City	2013/7/16	Cloudy	-	-	-	-	0.23	Sandy	680	1,400	2,080	0.19	(Left bank) Soil not exposed
				2013/8/14	Sunny	-	-	-	-	0.21	Sandy	640	1,400	2,040	0.19	(Left bank) Soil not exposed
39	Kohisagawa River	Rengobashi Bridge	Iwakishi City	2013/7/10	Sunny	Sandy	980	2,100	3,080	0.30	Sandy	890	1,900	2,790	0.27	
				2013/8/14	Sunny	Sandy	1,300	2,800	4,100	0.31	Sandy	900	1,900	2,800	0.29	
40	Niidagawa River	Kasumidabashi Bridge	Iwakishi City	2013/7/17	Cloudy	Sandy	530	1,100	1,630	0.15	Sandy	580	1,200	1,780	0.21	
41		Matsubabashi Bridge		2013/8/14	Sunny	Sandy	600	1,300	1,900	0.14	Sandy	790	1,600	2,390	0.14	
42	Natsugawa River	Kitanouchibashi Bridge	Onomachi Town	2013/7/16	Cloudy	Sandy	570	1,300	1,870	0.19	Sandy	350	770	1,120	0.25	
				2013/8/14	Sunny	Sandy	330	670	1,000	0.14	Loamy	830	1,800	2,630	0.24	
43	Natsugawa River	Kyudayubashi Bridge	Iwakishi City	2013/7/8	Light rain	Sandy	35	71	106	0.15	Sandy	150	320	470	0.14	
				2013/8/25	Sunny	Sandy	140	300	440	0.13	Sandy	330	720	1,050	0.15	
44	Natsugawa River	Rokujumabashi Bridge	Iwakishi City	2013/7/10	Sunny	Sandy	230	470	700	0.19	Sandy	210	450	660	0.19	
				2013/8/16	Sunny	Sandy	200	450	650	0.15	Sandy	300	620	920	0.12	
45	Yoshimagawa River	Iwaanatsuribashi Bridge	Iwakishi City	2013/7/10	Sunny	Sandy	540	1,300	1,840	0.23	Sandy	1,100	2,400	3,500	0.29	
				2013/8/25	Sunny	Loamy	470	970	1,440	0.24	Sandy	880	1,900	2,780	0.26	
46	Yoshimagawa River	Before the confluence with Natsugawa River	Iwakishi City	2013/7/8	Sunny	Sandy	610	1,300	1,910	0.15	Sandy	340	690	1,030	0.14	
				2013/8/16	Sunny	Sandy	800	1,700	2,500	0.13	Sandy	320	640	960	0.12	
47	Fujiwaragawa River	Shimabashi Bridge	Iwakishi City	2013/7/19	Sunny	Sandy	210	410	620	0.15	Sandy	360	750	1,110	0.15	
				2013/8/16	Sunny	Sandy	230	550	780	0.11	Sandy	230	510	740	0.13	
48	Fujiwaragawa River	Minatoohashi Bridge	Iwakishi City	2013/7/19	Sunny	Sandy	42	100	142	0.08	Sandy	340	700	1,040	0.13	
				2013/8/15	Sunny	Loamy	120	270	390	0.08	Sandy	220	520	740	0.11	
49	Samegawa River	Idosawabashi Bridge	Iwakishi City	2013/7/17	Cloudy	Sandy	240	480	720	0.10	Sandy	770	1,700	2,470	0.18	
				2013/8/13	Sunny	Sandy	140	290	430	0.08	Sandy	500	1,100	1,600	0.14	
50	Samegawa River	Samegawabashi Bridge	Iwakishi City	2013/7/18	Cloudy	Sandy	10,000	22,000	32,000	0.24	-	-	-	-	0.13	(Right bank) Soil not exposed
				2013/8/15	Sunny	Sandy	2,400	5,000	7,400	0.21	-	-	-	-	0.13	(Right bank) Soil not exposed
51	Shitokigawa River	Komurobashi Bridge	Iwakishi City	2013/7/9	Sunny	Sandy	200	390	590	0.09	Sandy	150	340	490	0.10	
				2013/8/15	Sunny	Sandy	210	460	670	0.09	Sandy	110	230	340	0.11	
52	Bindagawa River	Kobanabashi Bridge	Iwakishi City	2013/7/23	Cloudy	Sandy	470	1,100	1,570	0.14	Loamy	65	140	205	0.18	
				2013/8/15	Sunny	Sandy	510	1,200	1,710	0.14	Sandy	60	140	200	0.15	
53	Bindagawa River	Bindabashi Bridge	Iwakishi City	2013/7/9	Sunny	Sandy	780	1,600	2,380	0.18	Sandy	310	610	920	0.08	
				2013/8/13	Sunny	Sandy	770	1,600	2,370	0.15	Sandy	290	590	880	0.11	
53	Bindagawa River	Bindabashi Bridge	Iwakishi City	2013/7/9	Sunny	Sandy	380	760	1,140	0.10	Sandy	220	460	680	0.11	
				2013/8/15	Sunny	Sandy	260	570	830	0.08	Sandy	820	1,700	2,520	0.14	

- Samples for surrounding environment (soil) were generally collected from 5 points in 3m square in the river terrace, etc., and mixed. Depending on the site situation, factors, such as the area of sampling may be much smaller, may cause figures to vary significantly.
- Air dose was measured with a survey meter, TCS-172B of Hitachi-Aloka Medical, Ltd.
- Sampling points for rivers are listed from north to south, and for different points along the river, from upstream to downstream.
- Radioactive materials concentrations contain some measurement errors but are not noted here.

○River (Fukushima Prefecture, Nakadori Area): Water Quality Monitoring Results

Sampling point				Sampling date	Weather	Full depth (m)	General items					Radioactive material concentrations (Bq/L)		Remarks
No.	Water body	Point	Municipality				Sampling depth (m)	Transparency (cm)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity	Radioactive cesium		
												Cs134	Cs137	
54		Habutobashi Bridge	Nishigomura Village	2013/8/1	Cloudy	0.6	0.0	63	9	13	4	<1	<1	
55	Abukumagawa River	Tamachiohashi Bridge	Shirakawashi City	2013/7/8	Sunny	0.4	0.0	>100	13	3	2	<1	<1	
				2013/8/1	Cloudy	0.6	0.0	68	10	14	5	<1	<1	
				2013/9/10	Sunny	0.4	0.0	>100	14	<1	1	<1	<1	
				2013/8/1	Cloudy	0.2	0.0	>100	25	3	2	<1	<1	
56	Yantagawa River	Before the confluence with Abukumagawa River		2013/8/21	Cloudy	1.0	0.0	60	11	14	4	<1	<1	
57	Yashirogawa River	Yashirogawabashi Bridge	Tanaguramachi Town	2013/8/8	Sunny	0.3	0.0	62	11	10	4	<1	<1	
58	Kitasugawa River	Yanagibashi Bridge	Hiratamura Village	2013/8/2	Cloudy	0.5	0.0	41	10	12	8	<1	<1	
59	Imadegawa River	Nekonakibashi Bridge	Ishikawamachi Town	2013/8/20	Cloudy	1.0	0.0	>100	14	2	3	<1	<1	
61	Abukumagawa River	Kawanomeshashi Bridge	Tamakawamura Village	2013/7/8	Sunny	0.5	0.0	>100	17	5	3	<1	<1	
				2013/8/2	Cloudy	1.0	0.0	64	13	17	6	<1	<1	
				2013/9/10	Sunny	0.5	0.0	57	15	26	7	<1	<1	
62		Emochibashi Bridge		2013/8/20	Cloudy	0.5	0.0	>100	16	4	3	<1	<1	
63		Sukagawashi City water intake point		2013/8/5	Cloudy	0.5	0.0	>100	14	4	3	<1	<1	
64	Shakadogawa River	Before the confluence with Abukumagawa River	Sukagawashi City	2013/7/8	Cloudy	0.3	0.0	83	17	6	4	<1	<1	
				2013/8/20	Light rain	0.3	0.0	>100	14	7	4	<1	<1	
				2013/9/10	Sunny	0.3	0.0	>100	15	12	4	<1	<1	
65	Sasaharagawa River	Shinbashi Bridge	Koriyamashi City	2013/8/5	Cloudy	0.3	0.0	74	16	6	5	<1	<1	
66	Yatagawa River	Yatagawabashi Bridge		2013/8/5	Cloudy	0.3	0.0	83	17	3	4	<1	<1	
67		Funehikibashi Bridge	Tamurashi City	2013/8/5	Cloudy	0.3	0.0	79	15	2	5	<1	<1	
68	Otakegawa River	Before the confluence with Abukumagawa River		2013/8/21	Sunny	0.7	0.0	58	20	11	5	<1	<1	
69		Before the confluence with Babagawa River		2013/8/9	Sunny	0.3	0.0	>100	19	2	1	<1	<1	
70		Makunouchibashi Bridge		2013/8/9	Sunny	0.4	0.0	86	19	4	3	<1	<1	
71	Ousegawa River	Before the confluence with Abukumagawa River	Koriyamashi City	2013/7/9	Sunny	0.3	0.0	45	21	13	9	<1	<1	
				2013/8/9	Sunny	0.4	0.0	88	22	4	2	<1	<1	
				2013/9/10	Sunny	0.2	0.0	>100	24	2	3	<1	<1	
72	Abukumagawa River	Akutsubashi Bridge		2013/7/9	Sunny	0.3	0.0	51	24	12	6	<1	<1	
				2013/8/5	Cloudy	0.3	0.0	85	19	2	5	<1	<1	
				2013/9/11	Sunny	0.3	0.0	86	21	8	4	<1	<1	
73		After the confluence with Ishimurogawa River		2013/8/22	Sunny	0.2	0.0	80	10	3	3	<1	<1	
74		Kamisekishitabashi Bridge		2013/8/21	Sunny	0.5	0.0	80	11	6	3	<1	<1	
75	Gohyakugawa River	Before the confluence with Abukumagawa River	Motomiyashi City	2013/7/9	Sunny	0.4	0.0	46	15	9	7	<1	<1	
				2013/8/9	Sunny	0.5	0.0	43	13	11	6	<1	<1	
				2013/9/11	Sunny	0.7	0.0	>100	16	4	3	<1	<1	
76	Abukumagawa River	Takadabashi Bridge		2013/7/9	Sunny	0.4	0.0	40	19	15	8	<1	<1	
				2013/8/20	Cloudy	0.3	0.0	75	17	7	3	<1	<1	
				2013/9/11	Sunny	0.5	0.0	68	18	8	4	<1	<1	
77	Kuchibutogawa River	Kuchibutogawabashi Bridge	Nihonmatsushi City	2013/8/7	Sunny	0.4	0.0	43	10	20	6	<1	<1	
78	Utsushigawa River	Osegawabashi Bridge		2013/7/8	Cloudy	0.8	0.0	21	14	67	42	<1	<1	
				2013/8/20	Cloudy	0.3	0.0	16	13	100	19	<1	<1	
				2013/9/11	Sunny	0.2	0.0	60	15	11	7	<1	<1	

○River (Fukushima Prefecture, Nakadori Area): Water Quality Monitoring Results

Sampling point				Sampling date	Weather	Full depth (m)	General items					Radioactive material concentrations (Bq/L)		Remarks
No.	Water body	Point	Municipality				Sampling depth (m)	Transparency (cm)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity	Radioactive cesium		
												Cs134	Cs137	
79	Mizuharagawa River	Getouchibashi Bridge	Fukushimashi City	2013/8/6	Cloudy	0.2	0.0	87	10	2	4	<1	<1	
80	Megamigawa River	Tsurumakibashi Bridge		2013/8/21	Sunny	0.3	0.0	64	22	12	4	<1	<1	
81	Abukumagawa River	Horaibashi Bridge		2013/7/8	Cloudy	0.6	0.0	48	20	11	6	<1	<1	
				2013/8/20	Light rain	0.5	0.0	85	17	6	3	<1	<1	
				2013/9/11	Sunny	0.6	0.0	69	17	8	4	<1	<1	
82	Nigorigawa River	Before the confluence with Omorigawa River		2013/8/7	Sunny	0.5	0.0	50	16	10	4	<1	<1	
83	Arakawa River	Hinokurabashi Bridge		2013/8/7	Sunny	0.3	0.0	>100	18	<1	2	<1	<1	
84	Sukawa River	Sukawabashi Bridge		2013/8/6	Light rain	0.3	0.0	>100	45	<1	0	<1	<1	
85	Arakawa River	Before the confluence with Abukumagawa River		2013/7/11	Light rain	0.5	0.0	66	31	12	4	<1	<1	
				2013/8/8	Sunny	0.3	0.0	70	24	12	4	<1	<1	
86	Matsukawa River	Before the confluence with Abukumagawa River		2013/9/11	Sunny	0.6	0.0	60	30	10	4	<1	<1	
				2013/7/11	Cloudy	0.6	0.0	>100	17	2	1	<1	<1	
				2013/8/20	Light rain	1.0	0.0	30	8	28	10	<1	<1	
				2013/9/12	Sunny	0.3	0.0	>100	19	2	1	<1	<1	
87	Hattandagawa River	Hattandabashi Bridge	2013/8/21	Sunny	0.4	0.0	67	17	11	4	<1	<1		
88	Surikamigawa River	Totsunabashi Bridge	2013/8/7	Sunny	0.5	0.0	>100	7	5	3	<1	<1		
89		Before the confluence with Abukumagawa River	2013/7/10	Sunny	0.5	0.0	>100	8	3	2	<1	<1		
			2013/8/7	Sunny	0.5	0.0	80	8	7	4	<1	<1		
			2013/9/12	Cloudy	0.2	0.0	>100	40	3	1	<1	<1		
90	Abukumagawa River	Taishobashi Bridge	Dateshi City	2013/7/10	Sunny	0.5	0.0	57	18	13	8	<1	<1	
				2013/8/20	Light rain	1.0	0.0	57	17	6	5	<1	<1	
				2013/9/12	Sunny	0.2	0.0	88	19	8	2	<1	<1	
91	Hirosegawa River	Tatenokoshibashi Bridge	Kawamatamachi Town	2013/8/7	Sunny	0.4	0.0	33	10	22	11	<1	<1	
92		Jizogawarabashi Bridge	Dateshi City	2013/8/8	Sunny	0.4	0.0	75	13	6	3	<1	<1	
93	Ogunigawa River	Before the confluence with Hirosegawa River		2013/7/10	Sunny	0.4	0.0	45	24	11	8	<1	<1	
				2013/8/8	Sunny	0.3	0.0	70	19	8	4	<1	<1	
				2013/9/12	Sunny	0.3	0.0	75	20	10	3	<1	<1	
94	Hirosegawa River	Before the confluence with Abukumagawa River		2013/7/10	Sunny	0.4	0.0	92	18	6	4	<1	<1	
				2013/8/8	Sunny	0.4	0.0	48	15	18	4	<1	<1	
				2013/9/13	Sunny	0.2	0.0	92	10	8	3	<1	<1	
95	Kurokawa River	Tochigisakai	Shirakawashi City	2013/8/2	Cloudy	0.3	0.0	>100	9	2	2	<1	<1	
96	Kujigawa River	Matsuokabashi Bridge	Tanaguramachi Town	2013/8/1	Cloudy	0.4	0.0	83	12	9	4	<1	<1	
97		Takachiharabashi Bridge	Yamatsurimachi Town	2013/8/1	Sunny	0.5	0.0	49	10	17	8	<1	<1	

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○River (Fukushima Prefecture, Nakadori Area): Sediment Monitoring Results

Sampling point				Sampling date	Weather	Full depth (m)	General items			Concentration of radioactive material [Bq/kg (dried mud)]			Remarks
No.	Water body	Point	Municipality				Mud sampling depth (cm)	Mud content %	Property	Radioactive cesium			
										Cs134	Cs137	Total	
54	Abukumagawa River	Habutobashi Bridge	Nishigomura Village	2013/8/1	Cloudy	0.6	5	78	Sand	30	50	80	
55		Tamachiohashi Bridge	Shirakawashi City	2013/7/8	Sunny	0.4	10	86	Sand/gravel	19	32	51	
				2013/8/1	Cloudy	0.6	5	84	Sand/gravel	13	33	46	
				2013/9/10	Sunny	0.4	5	84	Gravel/sand	15	44	59	
56		Yantagawa River	Before the confluence with Abukumagawa River		2013/8/1	Cloudy	0.2	5	82	Gravel/sand	17	26	43
57	Yashirogawa River	Yashirogawabashi Bridge	Tanaguramachi Town	2013/8/21	Cloudy	1.0	10	85	Sand	49	110	159	
58	Kitasugawa River	Yanagibashi Bridge	Hiratamura Village	2013/8/8	Sunny	0.3	5	79	Sand/gravel	10	19	29	
59	Imadegawa River	Nekonakibashi Bridge	Ishikawamachi Town	2013/8/2	Cloudy	0.5	5	83	Sand/gravel	12	30	42	
60	Yashirogawa River	Ojibashi Bridge		2013/8/20	Cloudy	1.0	10	76	Sand/gravel	15	31	46	
61	Abukumagawa River	Kawanomebashi Bridge	Tamakawamura Village	2013/7/8	Sunny	0.5	8	88	Sand/gravel	13	27	40	
				2013/8/2	Cloudy	1.0	5	83	Gravel	12	19	31	
				2013/9/10	Sunny	0.5	10	85	Gravel/sand	12	26	38	
62		Emochibashi Bridge		2013/8/20	Cloudy	0.5	10	83	Sand/gravel	<10	13	13	
63		Sukagawashi City water intake point		2013/8/5	Cloudy	0.5	5	85	Gravel/sand	34	79	113	
64	Shakadogawa River	Before the confluence with Abukumagawa River	Sukagawashi City	2013/7/8	Cloudy	0.3	8	82	Sand/gravel	30	58	88	
				2013/8/20	Light rain	0.3	10	83	Sand/gravel	15	36	51	
				2013/9/10	Sunny	0.3	10	85	Gravel/sand	17	42	59	
65	Sasaharagawa River	Shinbashi Bridge	Koriyamashi City	2013/8/5	Cloudy	0.3	5	81	Sand/gravel	36	66	102	
66	Yatagawa River	Yatagawabashi Bridge		2013/8/5	Cloudy	0.3	5	83	Gravel/sand	16	33	49	
67	Otakegawa River	Funchikibashi Bridge	Tamurashi City	2013/8/5	Cloudy	0.3	5	83	Sand/gravel	13	22	35	
68		Before the confluence with Abukumagawa River		2013/8/21	Sunny	0.7	10	73	Silt/sand	110	260	370	
69		Before the confluence with Babagawa River		2013/8/9	Sunny	0.3	5	78	Sand/gravel	24	36	60	
70		Makunouchibashi Bridge		2013/8/9	Sunny	0.4	5	77	Sand	81	160	241	
71	Ousegawa River	Before the confluence with Abukumagawa River	Koriyamashi City	2013/7/9	Sunny	0.3	5	84	Gravel/sand	72	160	232	
				2013/8/9	Sunny	0.4	5	78	Sand	74	150	224	
				2013/9/10	Sunny	0.2	10	84	Sand	85	210	295	
72	Abukumagawa River	Akutsubashi Bridge		2013/7/9	Sunny	0.3	5	84	Gravel/sand	120	280	400	
				2013/8/5	Cloudy	0.3	5	86	Sand/gravel	73	160	233	
				2013/9/11	Sunny	0.3	10	80	Sand	81	170	251	
73		After the confluence with Ishimurogawa River		2013/8/22	Sunny	0.2	10	81	Gravel/sand	15	27	42	
74		Kamisekishitabashi Bridge		2013/8/21	Sunny	0.5	10	76	Sand	72	150	222	
75	Gohyakugawa River	Before the confluence with Abukumagawa River	Motomiyashi City	2013/7/9	Sunny	0.4	5	84	Sand/gravel	49	130	179	
				2013/8/9	Sunny	0.5	5	90	Sand/gravel	15	44	59	
				2013/9/11	Sunny	0.7	10	77	Sand	38	63	101	
76	Abukumagawa River	Takadabashi Bridge		2013/7/9	Sunny	0.4	5	83	Sand/silt	110	250	360	
				2013/8/20	Cloudy	0.3	10	72	Sand/gravel	320	700	1,020	
				2013/9/11	Sunny	0.5	10	77	Sand	76	180	256	
77	Kuchibutogawa River	Kuchibutogawabashi Bridge	Nihonmatsushi City	2013/8/7	Sunny	0.4	5	76	Sand/gravel	180	390	570	
78	Utsushigawa River	Osegawabashi Bridge		2013/7/8	Cloudy	0.8	6	80	Sand/silt	120	240	360	
				2013/8/20	Cloudy	0.3	10	84	Gravel	44	110	154	
				2013/9/11	Sunny	0.2	10	77	Sand/gravel	62	150	212	

○River (Fukushima Prefecture, Nakadori Area): Sediment Monitoring Results

Sampling point				Sampling date	Weather	Full depth (m)	General items			Concentration of radioactive material [Bq/kg (dried mud)]			Remarks
No.	Water body	Point	Municipality				Mud sampling depth (cm)	Mud content %	Property	Radioactive cesium			
										Cs134	Cs137	Total	
79	Mizuharagawa River	Getouchibashi Bridge	Fukushimashi City	2013/8/6	Cloudy	0.2	5	81	Sand/gravel	69	160	229	
80	Megamigawa River	Tsurumakibashi Bridge		2013/8/21	Sunny	0.3	10	97	Gravel/sand	110	220	330	
81	Abukumagawa River	Horaibashi Bridge		2013/7/8	Cloudy	0.6	3	80	Sand	79	180	259	
				2013/8/20	Light rain	0.5	10	81	Sand/gravel	72	170	242	
				2013/9/11	Sunny	0.6	10	72	Sand	140	300	440	
82	Nigorigawa River	Before the confluence with Omorigawa River		2013/8/7	Sunny	0.5	5	66	Sand	880	2,000	2,880	
83	Arakawa River	Hinokurabashi Bridge		2013/8/7	Sunny	0.3	5	77	Gravel/sand	23	49	72	
84	Sukawa River	Sukawabashi Bridge		2013/8/6	Light rain	0.3	5	72	Sand/gravel	22	65	87	
85	Arakawa River	Before the confluence with Abukumagawa Ri		2013/7/11	Light rain	0.5	5	89	Gravel/sand	32	53	85	
				2013/8/8	Sunny	0.3	5	82	Sand/gravel	60	140	200	
				2013/9/11	Sunny	0.6	10	78	Gravel/sand	120	260	380	
86	Matsukawa River			2013/7/11	Cloudy	0.6	5	77	Gravel/sand	44	93	137	
				2013/8/20	Light rain	1.0	10	80	Sand/gravel	330	770	1,100	
				2013/9/12	Sunny	0.3	10	77	Sand/gravel	87	190	277	
87	Hattandagawa River	Hattandabashi Bridge	2013/8/21	Sunny	0.4	10	88	Gravel	140	330	470		
88	Surikamigawa River	Totsunabashi Bridge	2013/8/7	Sunny	0.5	5	69	Sand/gravel	2,600	5,700	8,300		
		Before the confluence with Abukumagawa Ri	2013/7/10	Sunny	0.5	5	76	Gravel/sand	59	120	179		
			2013/8/7	Sunny	0.5	5	79	Sand/gravel	90	210	300		
			2013/9/12	Cloudy	0.2	10	77	Sand	39	85	124		
90	Abukumagawa River	Taishobashi Bridge	Dateshi City	2013/7/10	Sunny	0.5	5	80	Gravel/sand	63	130	193	
				2013/8/20	Light rain	1.0	10	87	Sand/gravel	97	200	297	
90				2013/9/12	Sunny	0.2	10	78	Sand	300	700	1,000	
91	Hirosegawa River	Tatenokoshibashi Bridge	Kawamatamachi Town	2013/8/7	Sunny	0.4	5	76	Sand/gravel	120	270	390	
92		Jizogawarabashi Bridge		2013/8/8	Sunny	0.4	5	83	Gravel/sand	86	210	296	
93	Ogunigawa River	Before the confluence with Hirosegawa River	Dateshi City	2013/7/10	Sunny	0.4	5	74	Sand/silt	630	1,300	1,930	
				2013/8/8	Sunny	0.3	5	75	Sand	370	820	1,190	
				2013/9/12	Sunny	0.3	10	78	Gravel/sand	350	760	1,110	
				2013/7/10	Sunny	0.4	5	78	Gravel/sand	300	610	910	
94	Hirosegawa River	Before the confluence with Abukumagawa Ri		2013/8/8	Sunny	0.4	5	89	Gravel	88	190	278	
				2013/9/13	Sunny	0.2	10	85	Gravel/sand	130	340	470	
95	Kurokawa River	Tochigisakai	Shirakawashi City	2013/8/2	Cloudy	0.3	3	80	Gravel/sand	17	48	65	
96	Kujigawa River	Matsuokabashi Bridge	Tanaguramachi Town	2013/8/1	Cloudy	0.4	5	81	Sand/gravel	14	26	40	
97		Takachiharabashi Bridge	Yamatsurimachi Town	2013/8/1	Sunny	0.5	5	80	Sand/gravel	<10	14	14	

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○River (Fukushima Prefecture, Nakadori Area): Surrounding Environment Monitoring Results

Sampling point				Sampling date	Weather	Left bank					Right bank					Remarks
No.	Water body	Point	Municipality			Property	Concentration of radioactive material [Bq/kg (dry)]			Air dose (μSv/h)	Property	Concentration of radioactive material [Bq/kg (dry)]			Air dose (μSv/h)	
							Cs134	Cs137	Total			Cs134	Cs137	Total		
54	Abukumagawa River	Habutobashi Bridge	Nishigomura Village	2013/8/1	Cloudy	Clay-loamy	2,300	5,100	7,400	0.47	Loamy	830	1,700	2,530	0.30	
55		Tamachiohashi Bridge	Shirakawashi City	2013/7/8	Sunny	Loamy	1,900	4,000	5,900	0.36	Loamy	680	1,400	2,080	0.26	
				2013/8/1	Cloudy	Loamy	1,300	2,700	4,000	0.32	Loamy	860	1,900	2,760	0.26	
				2013/9/10	Sunny	Loamy	930	2,100	3,030	0.33	Loamy	750	1,700	2,450	0.25	
56	Yantagawa River	Before the confluence with Abukumagawa River		2013/8/1	Cloudy	Clay-loamy	1,200	2,700	3,900	0.37	Loamy	1,700	3,800	5,500	0.33	
57	Yashirogawa River	Yashirogawabashi Bridge	Tanaguramachi Town	2013/8/21	Cloudy	Loamy	110	280	390	0.13	Loamy	150	340	490	0.14	
58	Kitasugawa River	Yanagibashi Bridge	Hiratamura Village	2013/8/8	Sunny	Sandy	47	110	157	0.09	Loamy	110	220	330	0.09	
59	Imadegawa River	Nekonakibashi Bridge	Ishikawamachi Town	2013/8/2	Cloudy	Loamy	80	180	260	0.12	Loamy	280	620	900	0.12	
60	Yashirogawa River	Ojibashi Bridge		2013/8/20	Cloudy	Loamy	88	210	298	0.10	Loamy	170	380	550	0.12	
61	Abukumagawa River	Kawanomebashi Bridge	Tamakawamura Village	2013/7/8	Sunny	Sandy	70	170	240	0.10	Sandy	160	350	510	0.11	
				2013/8/2	Cloudy	Clay-loamy	240	520	760	0.11	Loamy	310	740	1,050	0.13	
				2013/9/10	Sunny	Loamy	620	1,400	2,020	0.12	Loamy	220	510	730	0.14	
62		Emochibashi Bridge		2013/8/20	Cloudy	Loamy	340	740	1,080	0.23	Loamy	510	1,200	1,710	0.22	
63		Sukagawashi City water intake point		2013/8/5	Cloudy	Loamy	260	560	820	0.20	Loamy	470	1,000	1,470	0.22	
64	Shakadogawa River	Before the confluence with Abukumagawa River	Sukagawashi City	2013/7/8	Cloudy	Loamy	230	510	740	0.25	Loamy	240	510	750	0.24	
				2013/8/20	Light rain	Loamy	790	1,700	2,490	0.22	Loamy	320	720	1,040	0.23	
				2013/9/10	Sunny	Loamy	620	1,400	2,020	0.23	Loamy	440	1,000	1,440	0.21	
65	Sasaharagawa River	Shinbashi Bridge	Koriyamashi City	2013/8/5	Cloudy	Loamy	1,200	2,700	3,900	0.46	Loamy	1,600	3,400	5,000	0.34	
66	Yatagawa River	Yatagawabashi Bridge		2013/8/5	Cloudy	Loamy	1,200	2,600	3,800	0.35	Loamy	1,100	2,300	3,400	0.34	
67	Otakegawa River	Funehikibashi Bridge	Tamurashi City	2013/8/5	Cloudy	Loamy	320	700	1,020	0.16	Loamy	1,300	2,700	4,000	0.16	
68		Before the confluence with Abukumagawa River		2013/8/21	Sunny	Loamy	1,100	2,600	3,700	0.54	Loamy	800	1,700	2,500	0.35	
69		Before the confluence with Babagawa River		2013/8/9	Sunny	Loamy	1,100	2,400	3,500	0.67	Loamy	1,300	2,900	4,200	0.62	
70		Makunouchibashi Bridge		2013/8/9	Sunny	Loamy	2,300	4,800	7,100	0.67	Sandy	210	440	650	0.41	
71	Ousegawa River	Before the confluence with Abukumagawa River	Koriyamashi City	2013/7/9	Sunny	Loamy	2,300	4,800	7,100	0.80	Clay-loamy	1,700	3,600	5,300	1.20	
				2013/8/9	Sunny	Clay-loamy	700	1,600	2,300	0.51	Loamy	760	1,600	2,360	0.91	
				2013/9/10	Sunny	Clay-loamy	740	1,700	2,440	0.52	Clay-loamy	1,100	2,600	3,700	0.95	
72	Abukumagawa River	Akutsubashi Bridge		2013/7/9	Sunny	Sandy	590	1,100	1,690	0.24	Loamy	650	1,400	2,050	0.47	
				2013/8/5	Cloudy	Sandy	1,000	2,200	3,200	0.30	Loamy	620	1,500	2,120	0.45	
				2013/9/11	Sunny	Loamy	580	1,300	1,880	0.35	Loamy	540	1,300	1,840	0.43	
73		After the confluence with Ishimurogawa River		2013/8/22	Sunny	Loamy	240	560	800	0.30	Loamy	1,600	3,400	5,000	0.33	
74		Kamisekishitabashi Bridge		2013/8/21	Sunny	Loamy	5,100	11,000	16,100	0.60	Loamy	2,100	4,500	6,600	0.63	
75	Gohyakugawa River	Before the confluence with Abukumagawa River	Motomiya City	2013/7/9	Sunny	Loamy	5,700	12,000	17,700	0.91	Loamy	1,600	3,400	5,000	1.03	
				2013/8/9	Sunny	Loamy	2,700	6,000	8,700	0.94	Loamy	1,900	4,000	5,900	1.23	
				2013/9/11	Sunny	Loamy	2,800	6,200	9,000	0.92	Loamy	2,300	5,100	7,400	1.14	
76	Abukumagawa River	Takadabashi Bridge		2013/7/9	Sunny	Loamy	1,800	3,700	5,500	0.51	Clay-loamy	3,500	7,400	10,900	0.99	
				2013/8/20	Cloudy	Loamy	970	2,100	3,070	0.46	Clay-loamy	2,200	4,800	7,000	0.96	
				2013/9/11	Sunny	Loamy	15	27	42	0.26	Loamy	2,600	5,600	8,200	0.74	
77	Kuchibutogawa River	Kuchibutogawabashi Bridge	Nihonmatsushi City	2013/8/7	Sunny	Loamy	620	1,300	1,920	0.25	Clay-loamy	780	1,700	2,480	0.30	

○River (Fukushima Prefecture, Nakadori Area): Surrounding Environment Monitoring Results

Sampling point				Sampling date	Weather	Left bank				Right bank				Remarks		
No.	Water body	Point	Municipality			Property	Concentration of radioactive material [Bq/kg (dry)]			Air dose (μSv/h)	Property	Concentration of radioactive material [Bq/kg (dry)]			Air dose (μSv/h)	
							Cs134	Cs137	Total			Cs134	Cs137			Total
78	Utsushigawa River	Osegawabashi Bridge		2013/7/8	Cloudy	Loamy	1,200	2,400	3,600	0.45	Loamy	1,700	3,600	5,300	0.73	
				2013/8/20	Cloudy	Clay-loamy	490	1,100	1,590	0.50	Loamy	1,100	2,300	3,400	0.76	
				2013/9/11	Sunny	Loamy	660	1,500	2,160	0.52	Loamy	2,100	4,800	6,900	0.66	
79	Mizuharagawa River	Getouchibashi Bridge		2013/8/6	Cloudy	Loamy	310	650	960	0.52	Loamy	1,000	2,300	3,300	0.72	
80	Megamigawa River	Tsurumakibashi Bridge		2013/8/21	Sunny	Loamy	1,700	3,800	5,500	0.96	Loamy	1,900	4,300	6,200	0.65	
81	Abukumagawa River	Horaibashi Bridge		2013/7/8	Cloudy	Loamy	1,400	2,900	4,300	0.54	Loamy	4,300	9,200	13,500	0.64	
				2013/8/20	Light rain	Loamy	260	590	850	0.20	Loamy	2,700	6,100	8,800	0.60	
				2013/9/11	Sunny	Loamy	400	890	1,290	0.19	Loamy	3,900	8,800	12,700	0.59	
82	Nigorigawa River	Before the confluence with Omorigawa River		2013/8/7	Sunny	Loamy	3,300	7,300	10,600	0.62	Loamy	10,000	22,000	32,000	0.55	
83	Arakawa River	Hinokurabashi Bridge		2013/8/7	Sunny	Loamy	1,100	2,400	3,500	0.27	Loamy	1,700	3,800	5,500	0.31	
84	Sukawa River	Sukawabashi Bridge		2013/8/6	Light rain	Loamy	1,900	4,200	6,100	0.35	Loamy	3,000	6,300	9,300	0.33	
85	Arakawa River	Before the confluence with Abukumagawa River	Fukushimashi City	2013/7/11	Light rain	Loamy	90	190	280	0.44	Clay-loamy	2,000	4,300	6,300	1.13	
				2013/8/8	Sunny	Loamy	690	1,400	2,090	0.28	Clay-loamy	1,800	3,900	5,700	1.05	
				2013/9/11	Sunny	Loamy	330	750	1,080	0.25	Loamy	4,500	10,000	14,500	1.26	
86	Matsukawa River			2013/7/11	Cloudy	Loamy	11,000	23,000	34,000	1.57	Loamy	1,500	3,200	4,700	1.16	
				2013/8/20	Light rain	Loamy	8,200	18,000	26,200	1.30	Loamy	1,300	2,600	3,900	1.02	
				2013/9/12	Sunny	Loamy	11,000	23,000	34,000	1.48	Loamy	1,500	3,300	4,800	1.06	
87	Hattandagawa River	Hattandabashi Bridge		2013/8/21	Sunny	Loamy	1,800	3,900	5,700	0.54	Loamy	1,800	4,000	5,800	0.64	
88	Surikamigawa River	Totsunabashi Bridge		2013/8/7	Sunny	Loamy	2,300	4,900	7,200	0.53	Loamy	1,400	3,000	4,400	0.39	
Before the confluence with Abukumagawa River		2013/7/10	Sunny	Loamy	320	680	1,000	0.44	Loamy	2,600	5,300	7,900	0.72			
		2013/8/7	Sunny	Loamy	3,400	7,300	10,700	0.54	Loamy	1,800	3,700	5,500	0.63			
90	Abukumagawa River	Taishobashi Bridge	Dateshi City	2013/7/10	Sunny	Loamy	65	130	195	0.15	Loamy	440	930	1,370	0.54	
				2013/8/20	Light rain	Loamy	450	980	1,430	0.23	Loamy	1,000	2,300	3,300	0.52	
				2013/9/12	Sunny	Loamy	300	660	960	0.21	Loamy	1,200	2,600	3,800	0.52	
91	Hirosegawa River	Tatenokoshibashi Bridge	Kawamatamachi Town	2013/8/7	Sunny	Loamy	2,200	4,500	6,700	0.41	Loamy	590	1,400	1,990	0.41	
92		Jizogawarabashi Bridge		2013/8/8	Sunny	Loamy	2,800	5,700	8,500	0.69	Loamy	1,400	2,900	4,300	0.62	
93	Ogunigawa River	Before the confluence with Hirosegawa River	Dateshi City	2013/7/10	Sunny	Loamy	720	1,500	2,220	0.46	Loamy	1,300	2,900	4,200	0.56	
				2013/8/8	Sunny	Loamy	720	1,500	2,220	0.51	Loamy	530	1,100	1,630	0.61	
				2013/9/12	Sunny	Loamy	630	1,400	2,030	0.53	Loamy	1,300	3,200	4,500	0.56	
94	Hirosegawa River	Before the confluence with Abukumagawa River		2013/7/10	Sunny	Loamy	970	2,000	2,970	0.45	Loamy	1,100	2,400	3,500	0.47	
				2013/8/8	Sunny	Loamy	2,200	4,800	7,000	0.45	Loamy	600	1,200	1,800	0.46	
95	Kurokawa River	Tochigisakai	Shirakawashi City	2013/8/2	Cloudy	Loamy	3,100	6,600	9,700	0.37	Loamy	1,800	3,900	5,700	0.37	
																2013/8/1
97	Kujigawa River	Takachiharabashi Bridge	Yamatsurimachi Town	2013/8/1	Sunny	Clay-loamy	120	230	350	0.08	Loamy	75	160	235	0.11	

• Samples for surrounding environment (soil) were generally collected from 5 points in 3m square in the river terrace, etc., and mixed. Depending on the site situation, factors, such as the area of sampling may be much smaller, may cause figures to vary significantly.

- AAir dose was measured with a survey meter, TCS-172B of Hitachi-Aloka Medical, Ltd.
- Sampling points for rivers are listed from north to south, and for different points along the river, from upstream to downstream.
- Radioactive materials concentrations contain some measurement errors but are not noted here.

○River (Fukushima Prefecture, Aizu Area): Water Quality Monitoring Results

Sampling point				Sampling date	Weather	Full depth (m)	General items					Radioactive material concentrations (Bq/L)		Remarks
No.	Water body	Point	Municipality				Sampling depth (m)	Transparency (cm)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity	Radioactive cesium		
												Cs134	Cs137	
98	Aganogawa River	Tajimabashi Bridge	Minamiaizumachi Town	2013/8/7	Sunny	0.5	0.0	>100	5	1	1	<1	<1	
99		Okawabashi Bridge		2013/8/7	Sunny	0.9	0.0	>100	6	1	2	<1	<1	
100	Yukawa River	Takimibashi Bridge	Aizuwakamatsushi City	2013/8/14	Sunny	1.0	0.0	>100	8	1	2	<1	<1	
101		Shinyukawabashi Bridge		2013/8/14	Sunny	0.4	0.0	>100	9	2	2	<1	<1	
102		Before the confluence with Aganogawa River		2013/8/14	Sunny	0.6	0.0	>100	11	4	2	<1	<1	
103	Miyakawa River	Saikunabashi Bridge	Aizubangemachi Town	2013/8/14	Sunny	0.6	0.0	>100	10	2	2	<1	<1	
104	Aganogawa River	Miyakobashi Bridge		2013/8/15	Sunny	0.5	0.0	>100	10	<1	1	<1	<1	
105	Nippashigawa River	Minamiohashi Bridge	Kitakatashi City	2013/7/2	Sunny	0.6	0.0	40	13	15	7	<1	<1	
105				2013/7/31	Cloudy	0.9	0.0	>100	13	2	1	<1	<1	
105				2013/8/15	Sunny	0.7	0.0	>100	12	<1	1	<1	<1	
105				2013/9/11	Sunny	0.5	0.0	96	10	6	4	<1	<1	
106	Kyuyukawa River	Awanomiyabashi Bridge	Yugawamura Village	2013/8/15	Sunny	0.6	0.0	75	14	7	4	<1	<1	
107	Kyumiyakawa River	Josukebashi Bridge	Aizubangemachi Town	2013/8/15	Sunny	0.7	0.0	>100	11	12	4	<1	<1	
108	Tatsukigawa River	Ohashi Bridge	Kitakatashi City	2013/8/16	Sunny	0.4	0.0	>100	7	<1	1	<1	<1	
109		Shimokawarabashi Bridge		2013/8/16	Sunny	0.3	0.0	>100	12	3	2	<1	<1	
110	Nigorigawa River	Nigorigawabashi Bridge		2013/8/16	Sunny	0.2	0.0	50	10	6	5	<1	<1	
111		Yamazakibashi Bridge	2013/8/16	Sunny	0.4	0.0	50	10	4	4	<1	<1		
112	Inagawa River	Aoyagibashi Bridge	Minamiaizumachi Town	2013/8/6	Cloudy	1.2	0.0	90	4	2	2	<1	<1	
113		Kurosawabashi Bridge	Tadamimachi Town	2013/8/6	Cloudy	1.4	0.0	70	5	9	19	<1	<1	
114	Tadamigawa River	Nishitanibashi Bridge	Kaneyamamachi Town	2013/8/13	Sunny	0.4	0.0	45	5	5	12	<1	<1	
115		Fujibashi Bridge	Aizubangemachi Town	2013/8/8	Sunny	1.4	0.0	50	4	18	18	<1	<1	
116	Aganogawa River	Shingo Dam	Kitakatashi City	2013/8/5	Cloudy	2.5	0.0	55	8	8	17	<1	<1	
117	Sukawa River	Sukawano	Inawashiro-machi Town	2013/7/3	Cloudy	0.5	0.0	>100	90	<1	1	<1	<1	
117				2013/7/31	Sunny	0.7	0.0	>100	36	4	8	<1	<1	
117				2013/8/29	Sunny	0.4	0.0	>100	76	1	1	<1	<1	
117				2013/9/11	Cloudy	0.5	0.0	>100	65	2	1	<1	<1	
118	Nagasegawa River	Koganebashi Bridge	Inawashiro-machi Town	2013/7/3	Cloudy	0.4	0.0	>100	26	2	1	<1	<1	
118				2013/7/31	Cloudy	0.5	0.0	>100	17	6	4	<1	<1	
118				2013/8/22	Sunny	0.7	0.0	65	8	13	5	<1	<1	
118				2013/9/11	Cloudy	0.7	0.0	81	8	10	4	<1	<1	
119	Takahashigawa River	Shinbashi Bridge		2013/8/22	Sunny	0.7	0.0	75	19	6	2	<1	<1	
120	Ogurogawa River	Umenohashi Bridge		2013/8/22	Sunny	0.7	0.0	65	18	12	4	<1	<1	
121	Hishinumagawa River	Sekido District		2013/8/22	Sunny	0.7	0.0	90	13	5	3	<1	<1	
122	Funatsugawa River	Funatsubashi Bridge	Koriyamashi City	2013/8/22	Sunny	0.4	0.0	>100	9	2	1	<1	<1	
123	Haragawa River	Estuary, front	Aizuwakamatsushi City	2013/8/22	Sunny	0.5	0.0	>100	6	2	2	<1	<1	

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○River (Fukushima Prefecture, Aizu Area): Sediment Monitoring Results

Sampling point				Sampling date	Weather	Full depth (m)	General items			Concentration of radioactive material [Bq/kg (dried mud)]			Remarks	
No.	Water body	Point	Municipality				Mud sampling depth (cm)	Mud content %	Property	Radioactive cesium				
										Cs134	Cs137	Total		
98	Aganogawa River	Tajimabashi Bridge	Minamiaizumachi Town	2013/8/7	Sunny	0.5	4	81	Gravel	<10	<10	-		
99		Okawabashi Bridge	Aizuwakamatsushi City	2013/8/7	Sunny	0.9	3	90	Gravel/sand	<10	<10	-		
100	Takimibashi Bridge	2013/8/14		Sunny	1.0	5	70	Sand	33	79	112			
101	Yukawa River	Shinyukawabashi Bridge		2013/8/14	Sunny	0.4	5	86	Sand/gravel	27	57	84		
102		Before the confluence with Aganogawa River		2013/8/14	Sunny	0.6	5	78	Sand/gravel	46	86	132		
103	Miyakawa River	Saikunabashi Bridge	Aizubangemachi Town	2013/8/14	Sunny	0.6	5	72	Sand/gravel	24	58	82		
104	Aganogawa River	Miyakobashi Bridge	Kitakatashi City	2013/8/15	Sunny	0.5	5	79	Sand	<10	<10	-		
105	Nippashigawa River	Minamiohashi Bridge		2013/7/2	Sunny	0.6	5	72	Sand	27	81	108		
				2013/7/31	Cloudy	0.9	5	64	Sand	34	71	105		
				2013/8/15	Sunny	0.7	5	66	Sand	31	72	103		
2013/9/11			Sunny	0.5	5	82	Sand/gravel	33	54	87				
106	Kyuyukawa River	Awanomiyabashi Bridge	Yugawamura Village	2013/8/15	Sunny	0.6	5	83	Sand	33	70	103		
107	Kyumiyakawa River	Josukebashi Bridge	Aizubangemachi Town	2013/8/15	Sunny	0.7	5	76	Sand	51	110	161		
108	Tatsukigawa River	Ohashi Bridge	Kitakatashi City	2013/8/16	Sunny	0.4	5	71	Sand/gravel	<10	17	17		
109		Shimokawarabashi Bridge		2013/8/16	Sunny	0.3	5	75	Sand	12	27	39		
110	Nigorigawa River	Nigorigawabashi Bridge		2013/8/16	Sunny	0.2	5	72	Sand	15	32	47		
111		Yamazakibashi Bridge		2013/8/16	Sunny	0.4	5	80	Sand/gravel	<10	<10	-		
112	Inagawa River	Aoyagibashi Bridge	Minamiaizumachi Town	2013/8/6	Cloudy	1.2	4	75	Sand	<10	<10	-		
113		Kurosawabashi Bridge	Tadamimachi Town	2013/8/6	Cloudy	1.4	5	82	Gravel/sand	<10	<10	-		
114	Tadamigawa River	Nishitanibashi Bridge	Kaneyamamachi Town	2013/8/13	Sunny	0.4	5	84	Gravel/sand	<10	<10	-		
115		Fujibashi Bridge	Aizubangemachi Town	2013/8/8	Sunny	1.4	5	71	Sand	<10	11	11		
116	Aganogawa River	Shingo Dam	Kitakatashi City	2013/8/5	Cloudy	2.5	5	54	Silt	45	92	137		
117	Sukawa River	Sukawano	Inawashiro-machi Town	2013/7/3	Cloudy	0.5	5	82	Sand/gravel	16	28	44		
				2013/7/31	Sunny	0.7	5	75	Sand/gravel	24	49	73		
				2013/8/29	Sunny	0.4	5	74	Sand/gravel	21	49	70		
				2013/9/11	Cloudy	0.5	5	74	Sand	22	56	78		
118	Nagasegawa River	Koganebashi Bridge		2013/7/3	Cloudy	0.4	5	74	Sand/gravel	24	63	87		
				2013/7/31	Cloudy	0.5	5	84	Sand/gravel	<10	23	23		
				2013/8/22	Sunny	0.7	5	83	Sand/gravel	12	30	42		
				2013/9/11	Cloudy	0.7	5	82	Sand/gravel	<10	19	19		
119	Takahashigawa River	Shinbashi Bridge		Koriyamashi City	2013/8/22	Sunny	0.7	5	82	Sand/gravel	<10	23	23	
120	Ogurogawa River	Umenohashi Bridge			2013/8/22	Sunny	0.7	5	73	Sand	63	120	183	
121	Hishinumagawa River	Sekido District	2013/8/22		Sunny	0.7	5	34	Silt	82	190	272		
122	Funatsugawa River	Funatsubashi Bridge	Koriyamashi City	2013/8/22	Sunny	0.4	5	79	Sand	13	23	36		
123	Haragawa River	Estuary, front	Aizuwakamatsushi City	2013/8/22	Sunny	0.5	5	80	Sand	<10	12	12		

• Sampling points for rivers are listed from north to south, and for different points along the river, from upstream to downstream.

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○River (Fukushima Prefecture, Aizu Area): Surrounding Environment Monitoring Results

Sampling point				Sampling date	Weather	Left bank					Right bank					Remarks	
No.	Water body	Point	Municipality			Property	Concentration of radioactive material [Bq/kg (dry)]				Air dose (μ Sv/h)	Property	Concentration of radioactive material [Bq/kg (dry)]				
							Radioactive cesium			Total			Radioactive cesium				Air dose (μ Sv/h)
							Cs134	Cs137	Total				Cs134	Cs137	Total		
98	Aganogawa River	Tajimabashi Bridge	Minamiaizumachi Town	2013/8/7	Sunny	Loamy	72	140	212	0.06	Loamy	41	78	119	0.06		
99		Okawabashi Bridge	Aizuwakamatsushi City	2013/8/7	Sunny	Sandy	67	140	207	0.09	Loamy	130	310	440	0.07		
100	Takimibashi Bridge	2013/8/14		Sunny	Loamy	93	170	263	0.18	Clay-loamy	320	760	1,080	0.13			
101	Yukawa River	Shinyukawabashi Bridge		2013/8/14	Sunny	Loamy	320	700	1,020	0.19	Loamy	260	570	830	0.20		
102		Before the confluence with Aganogawa River		2013/8/14	Sunny	Loamy	340	720	1,060	0.19	Loamy	150	350	500	0.19		
103	Miyakawa River	Saikunabashi Bridge	Aizubangemachi Town	2013/8/14	Sunny	Loamy	320	710	1,030	0.17	Loamy	400	850	1,250	0.16		
104	Aganogawa River	Miyakobashi Bridge	Kitakatashi City	2013/8/15	Sunny	Loamy	310	640	950	0.27	Loamy	<10	16	16	0.11		
105	Nippashigawa River	Minamiohashi Bridge		2013/7/2	Sunny	Loamy	1,200	2,400	3,600	0.27	Loamy	370	780	1,150	0.23		
				2013/7/31	Cloudy	Loamy	1,000	2,100	3,100	0.23	Loamy	230	490	720	0.19		
				2013/8/15	Sunny	Loamy	500	1,000	1,500	0.26	Loamy	330	710	1,040	0.19		
2013/9/11			Sunny	Loamy	340	820	1,160	0.27	Loamy	520	1,200	1,720	0.18				
106	Kyuyukawa River	Awanomiyabashi Bridge	Yugawamura Village	2013/8/15	Sunny	Loamy	650	1,400	2,050	0.29	Loamy	470	970	1,440	0.21		
107	Kyumiya River	Josukebashi Bridge	Aizubangemachi Town	2013/8/15	Sunny	Loamy	350	680	1,030	0.13	Loamy	380	760	1,140	0.14		
108	Tatsukigawa River	Ohashi Bridge	Kitakatashi City	2013/8/16	Sunny	Loamy	63	150	213	0.11	Loamy	120	270	390	0.12		
109		Shimokawarabashi Bridge		2013/8/16	Sunny	Loamy	200	480	680	0.14	Loamy	160	350	510	0.15		
110	Nigorigawa River	Nigorigawabashi Bridge		2013/8/16	Sunny	Loamy	220	440	660	0.15	Loamy	69	140	209	0.15		
111		Yamazakibashi Bridge		2013/8/16	Sunny	Loamy	330	690	1,020	0.14	Loamy	180	430	610	0.14		
112	Inagawa River	Aoyagibashi Bridge	Minamiaizumachi Town	2013/8/6	Cloudy	Sandy	16	39	55	0.12	Sandy	<10	11	11	0.13		
113		Kurosawabashi Bridge	Tadamimachi Town	2013/8/6	Cloudy	Loamy	110	200	310	0.08	Loamy	11	23	34	0.07		
114	Tadamigawa River	Nishitanibashi Bridge	Kaneyamamachi Town	2013/8/13	Sunny	Sandy	23	48	71	0.07	Loamy	62	160	222	0.07		
115		Fujibashi Bridge	Aizubangemachi Town	2013/8/8	Sunny	Sandy	12	25	37	0.05	Sandy	510	990	1,500	0.13		
116	Aganogawa River	Shingo Dam	Kitakatashi City	2013/8/5	Cloudy	Loamy	150	300	450	0.09	Loamy	230	600	830	0.08		
117	Sukawa River	Sukawano	Inawashiomachi Town	2013/7/3	Cloudy	Loamy	270	560	830	0.17	Loamy	170	360	530	0.18		
				2013/7/31	Sunny	Loamy	80	190	270	0.16	Loamy	350	780	1,130	0.15		
				2013/8/29	Sunny	Loamy	350	800	1,150	0.16	Loamy	210	500	710	0.16		
				2013/9/11	Cloudy	Loamy	250	520	770	0.14	Loamy	600	1,300	1,900	0.17		
118	Nagasegawa River	Koganebashi Bridge		2013/7/3	Cloudy	Loamy	76	160	236	0.08	Loamy	77	150	227	0.08		
				2013/7/31	Cloudy	Loamy	90	220	310	0.09	Loamy	78	180	258	0.09		
				2013/8/22	Sunny	Loamy	200	430	630	0.06	Loamy	83	220	303	0.07		
				2013/9/11	Cloudy	Loamy	61	140	201	0.08	Loamy	77	190	267	0.09		
				2013/8/22	Sunny	Loamy	200	430	630	0.08	Loamy	62	150	212	0.07		
119	Takahashigawa River	Shinbashi Bridge		Koriyamashi City	2013/8/22	Sunny	Loamy	680	1,600	2,280	0.08	Loamy	95	210	305	0.07	
120	Ogurogawa River	Umenohashi Bridge			2013/8/22	Sunny	Loamy	71	150	221	0.07	Loamy	37	69	106	0.08	
121	Hishinumagawa River	Sekido District			2013/8/22	Sunny	Loamy	110	240	350	0.07	Loamy	81	190	271	0.07	
122	Funatsugawa River	Funatsubashi Bridge	2013/8/22		Sunny	Loamy	67	140	207	0.07	Loamy	57	120	177	0.06		
123	Haragawa River	Estuary, front	Aizuwakamatsushi City		2013/8/22	Sunny	Loamy										

• Samples for surrounding environment (soil) were generally collected from 5 points in 3m square in the river terrace, etc., and mixed. Depending on the site situation, factors, such as the area of sampling may be much smaller, may cause figures to vary significantly.

• Air dose was measured with a survey meter, TCS-172B of Hitachi-Aloka Medical, Ltd.

• Sampling points for rivers are listed from north to south, and for different points along the river, from upstream to downstream.

• Radioactive materials concentrations contain some measurement errors but are not noted here.

○Lake and Headwater (Hamadori Area): Water Quality Monitoring Results

Sampling point				Sampling date	Weather	Full depth (m)	General items					Radioactive material concentrations (Bq/L)		Remarks									
No.	Point		Municipality				Sampling depth (m)	Secchi disk depth (m)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity	Radioactive cesium											
												Cs134	Cs137										
1	Soso (farm pond)	Takei	Surface layer	Shinchimachi Town	2013/7/3	Cloudy	1.9	0.5	0.6	27	18	14	<1	<1									
			Lower layer					0.9							27	15	13	<1	<1				
			Surface layer					2013/8/6							Light rain	2.8	0.5	2.0	22	2	3	<1	<1
			Lower layer														1.8		23	2	5	<1	<1
2		Uchizawa	Surface layer	Somashi City	2013/7/4	Cloudy	2.2	0.5	1.8	13	2	2	<1	<1									
			Lower layer					1.2							13	2	2	<1	<1				
			Surface layer					2013/8/6							Cloudy	2.8	0.5	2.0	19	<1	1	<1	<1
			Lower layer														1.8		20	<1	1	<1	<1
3	Matsugabo Dam (Utagawako Lake)		Surface layer		2013/7/5	Cloudy	21.0	0.5	2.9	10	1	2	<1	<1									
			Lower layer					20.0							10	2	8	<1	<1				
			Surface layer					2013/8/6							Light rain	29.8	0.5	1.6	8	2	3	<1	<1
			Lower layer														28.8		11	1	5	<1	<1
4	Mano Dam		Surface layer		2013/7/3	Cloudy	45.5	0.5	2.9	7	3	2	<1	<1									
			Lower layer					44.5							8	<1	1	<1	<1				
			Surface layer					2013/7/24							Cloudy	43.0	0.5	2.1	7	3	3	<1	<1
			Lower layer														42.0		8	<1	1	<1	<1
			Surface layer					2013/8/29							Sunny	50.5	0.5	2.5	7	2	2	<1	<1
			Lower layer														49.5		10	3	3	<1	<1
			Surface layer					2013/9/25							Cloudy	48.6	0.5	3.5	7	<1	1	<1	<1
			Lower layer														47.6		8	2	3	<1	<1
5	Soso (farm pond)	Ainosawa	Surface layer	Iitatemura Village	2013/8/8	Sunny	1.0	0.0	>1.0	4	<1	2	<1	<1									
			Lower layer					-							-	-	-	-	Collected only from the surface layer due to shallow water				
6	Ganbe Dam Reservoir		Surface layer		2013/8/5	Cloudy	6.4	0.5	2.0	5	1	2	<1	<1									
			Lower layer					5.4							6	1	5	<1	<1				
7	Soso (farm pond)	Fugane Dam	Surface layer		2013/8/8	Sunny	1.0	0.0	>1.0	5	7	3	<1	<1									
			Lower layer					-							-	-	-	-	Collected only from the surface layer due to shallow water				
8	Soso (farm pond)	Sasatoge	Surface layer		2013/8/8	Sunny	1.0	0.0	0.5	4	3	2	<1	<1									
			Lower layer					-							-	-	-	-	Collected only from the surface layer due to shallow water				

○Lake and Headwater (Hamadori Area): Water Quality Monitoring Results

Sampling point			Sampling date	Weather	Full depth (m)	General items					Radioactive material concentrations (Bq/L)		Remarks		
No.	Point					Municipality	Sampling depth (m)	Secchi disk depth (m)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity	Radioactive cesium			
												Cs134		Cs137	
9	Takanokura Dam Reservoir			2013/7/2	Sunny	0.7	0.0	0.6	6	8	6	<1	<1		
							-		-	-	-	-	Collected only from the surface layer due to shallow water		
							0.0		6	<1	1	<1			<1
							-		-	-	-	-			
10	Yokokawa Dam Reservoir		Minamisomashi City	2013/7/2	Sunny	4.5	0.5	4.0	5	<1	1	<1	<1		
							3.5		5	<1	1	<1	<1		
							0.5		5	<1	1	<1	<1		
							2.3		5	<1	1	<1	<1		
11	Tarayachi			2013/8/9	Cloudy	-	-	-	-	-	-	-	-	Unable to collect samples due to drought	
															Unable to collect samples due to drought
12	Takeshiyachi			2013/8/7	Sunny	0.5	0.0	>0.5	5	24	26	<1	<1		
							-		-	-	-	-	Collected only from the surface layer due to shallow water		
13	Ryugasaku			2013/8/7	Sunny	0.5	0.0	>0.5	6	7	6	<1	<1		
							-		-	-	-	-	Collected only from the surface layer due to shallow water		
14	Soso (farm pond)		Uwatashiro	Kawamatamachi Town	2013/8/26	Sunny	0.7	0.0	0.6	4	2	4	<1	<1	
								-		-	-	-	-	Collected only from the surface layer due to shallow water	
15	Koakuto			2013/8/30	Cloudy	0.2	0.0	0.1	10	70	48	<1	<1	2	
							-		-	-	-	-	Collected only from the surface layer due to shallow water		
16	Yosouchi		Iitatemura Village	2013/8/7	Sunny	0.6	0.0	>0.6	5	2	3	<1	<1		
							-		-	-	-	-	Collected only from the surface layer due to shallow water		
17	Myobusaku No. 2		Minamisomashi City	2013/8/9	Cloudy	1.0	0.0	0.5	5	7	5	<1	<1		
							-		-	-	-	-	Collected only from the surface layer due to shallow water		
18	Ogaki Dam		Namiemachi Town	2013/7/25	Cloudy	1.0	0.0	>1.0	5	2	3	<1	<1		
							-		-	-	-	-	Collected only from the surface layer due to shallow water		
							0.0		5	1	2	<1	2		
							-		-	-	-	-	Collected only from the surface layer due to shallow water		
							0.0		0	5	5	1	3		
							-		-	-	-	-	Collected only from the surface layer due to shallow water		
19	Uenokawa		Katsuraomura Village	2013/8/26	Sunny	0.2	0.0	>0.2	8	16	10	<1	<1		
							-		-	-	-	-	Collected only from the surface layer due to shallow water		
20	Heigoiri		Iitatemura Village	2013/8/28	Sunny	0.6	0.0	>0.6	3	2	3	<1	<1		
							-		-	-	-	-	Collected only from the surface layer due to shallow water		
21	Mekurasawa No. 2		Namiemachi Town	2013/8/13	Sunny	0.3	0.0	0.1	14	24	29	<1	<1	2	
							-		-	-	-	-	Collected only from the surface layer due to shallow water		
22	Joroku			2013/8/13	Sunny	0.3	0.0	0.2	14	6	7	<1	<1		
							-		-	-	-	-	Collected only from the surface layer due to shallow water		

○Lake and Headwater (Hamadori Area): Water Quality Monitoring Results

Sampling point			Sampling date	Weather	Full depth (m)	General items					Radioactive material concentrations (Bq/L)		Remarks	
No.	Point	Municipality				Sampling depth (m)	Secchi disk depth (m)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity	Radioactive cesium			
											Cs134	Cs137		
23	Furumichigawa Power Plant Dam	Tamuraishi City	Surface layer	2013/7/5	Cloudy	8.1	0.5	2.2	8	<1	2	<1	<1	
			Lower layer				7.1		8	2	2	<1	<1	
			Surface layer	2013/8/7	Sunny	7.1	0.5	0.6	9	6	8	<1	<1	
			Lower layer				6.1		8	9	8	<1	<1	
24	Sawairi No. 1	Futabamachi Town	2013/8/13	Sunny	0.3	0.0	0.2	18	3	5	1	3		
Lower layer		-	-	-	-	-	-	-	-	-	Collected only from the surface layer due to shallow water			
25	Soso (farm pond)	Suzunai No. 4	2013/8/2	Cloudy	0.3	0.0	0.2	14	38	34	7	12		
Lower layer		-	-	-	-	-	-	-	-	-	Collected only from the surface layer due to shallow water			
26	Nishihaguro	Futabamachi Town	2013/8/2	Cloudy	0.5	0.0	>0.5	11	9	7	<1	1		
			Lower layer	-	-	-	-	-	-	-	-	Collected only from the surface layer due to shallow water		
27	Sakashita Dam	Okumamachi Town	Surface layer	2013/7/3	Light rain	24.0	0.5	2.8	7	1	2	<1	<1	
			Lower layer				23.0		9	6	6	<1	<1	
			Surface layer	2013/8/30	Cloudy	19.6	0.5	3.0	7	2	2	<1	<1	
			Lower layer				18.6		8	3	3	<1	<1	
28	Atamamori 2		2013/8/2	Cloudy	0.6	0.0	>0.6	12	3	4	<1	1		
			Lower layer	-	-	-	-	-	-	-	-	Collected only from the surface layer due to shallow water		
29	Soso (farm pond)	Yonomori	Tomikamachi Town	2013/7/3	Cloudy	1.1	0.0	0.3	12	17	13	<1	2	
				Lower layer	-	-	-	-	-	-	-	-	Collected only from the surface layer due to shallow water	
				Surface layer	2013/8/7	Sunny	1.1	0.0	0.5	12	19	27	<1	2
				Lower layer				-		-	-	-	-	-
30	Takikawa Dam	Kawauchimura Village	Surface layer	2013/7/25	Cloudy	1.0	0.0	>1.0	7	1	1	<1	<1	
			Lower layer				-		-	-	-	-	-	-
			Surface layer	2013/8/12	Sunny	0.8	0.0	>0.8	7	1	1	<1	<1	
			Lower layer				-		-	-	-	-	-	-
			Surface layer	2013/9/17	Sunny	0.6	0.0	0.3	7	14	11	<1	<1	
			Lower layer				-		-	-	-	-	-	-
31	Takinosawa	Tomikamachi Town	2013/8/30	Sunny	0.4	0.0	0.1	28	23	20	<1	<1		
			Lower layer	-	-	-	-	-	-	-	-	Collected only from the surface layer due to shallow water		
32	Soso (farm pond)	Kamisigeoka No.1	Narahamachi Town	2013/8/9	Sunny	0.2	0.0	>0.2	8	17	12	<1	<1	
				Lower layer	-	-	-	-	-	-	-	-	Collected only from the surface layer due to shallow water	
33	Shimoshigeoka			2013/8/9	Sunny	0.3	0.0	>0.3	11	9	8	<1	<1	
				Lower layer	-	-	-	-	-	-	-	-	Collected only from the surface layer due to shallow water	
34	Komachi Dam	Onomachi Town	Surface layer	2013/7/5	Cloudy	8.4	0.5	1.9	9	2	4	<1	<1	
			Lower layer				7.4		10	6	6	<1	<1	
			Surface layer	2013/8/8	Sunny	7.9	0.5	1.5	8	4	4	<1	<1	
			Lower layer				6.9		10	18	15	<1	<1	

○Lake and Headwater (Hamadori Area): Water Quality Monitoring Results

Sampling point			Sampling date	Weather	Full depth (m)	General items					Radioactive material concentrations (Bq/L)		Remarks
No.	Point	Municipality				Sampling depth (m)	Secchi disk depth (m)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity	Radioactive cesium		
											Cs134	Cs137	
35	Kido Dam	Narahamachi Town	Surface layer	2013/7/4	Sunny	37.5	0.5	4.1	5	1	1	<1	<1
			Lower layer				36.5		5	<1	1	<1	<1
			Surface layer	2013/7/26	Cloudy	29.0	0.5	3.2	5	<1	1	<1	<1
			Lower layer				28.0		5	<1	1	<1	<1
			Surface layer	2013/8/30	Sunny	29.5	0.5	4.0	5	<1	1	<1	<1
			Lower layer				28.5		5	<1	1	<1	<1
			Surface layer	2013/9/24	Sunny	11.0	0.5	1.1	5	4	5	<1	<1
Lower layer	10.0	5	3				5		<1	<1			
36	Soso (farm pond)	Otsutsumi	Surface layer	2013/8/9	Sunny	1.1	0.0	>1.1	60	2	4	<1	<1
			Lower layer				-		-	-	-	-	-
37	Iwaki (farm pond)	Shinike	Surface layer	2013/7/17	Cloudy	1.3	0.0	0.9	11	2	2	<1	<1
			Lower layer				-		-	-	-	-	Collected only from the surface layer due to shallow water
			Surface layer	2013/8/27	Sunny	1.8	0.0	0.7	12	4	4	<1	<1
			Lower layer				-		-	-	-	-	Collected only from the surface layer due to shallow water
38	Kodama Dam Reservoir (Kodamako Lake)		Surface layer	2013/7/19	Sunny	55.4	0.5	2.5	12	3	3	<1	<1
			Lower layer				54.4		11	2	2	<1	<1
			Surface layer	2013/8/26	Sunny	54.9	0.5	1.7	9	6	8	<1	<1
			Lower layer				53.9		10	1	3	<1	<1
39	Iwaki (farm pond)	Kanoritsutsumishita	Surface layer	2013/7/17	Cloudy	0.6	0.0	>0.6	57	3	3	<1	<1
			Lower layer				-		-	-	-	-	Collected only from the surface layer due to shallow water
			Surface layer	2013/8/28	Sunny	0.5	0.0	>0.5	51	4	4	<1	<1
			Lower layer				-		-	-	-	-	Collected only from the surface layer due to shallow water
40	Takashiba Dam Reservoir (Takashibako Lake)		Surface layer	2013/7/18	Sunny	22.0	0.5	2.1	11	4	5	<1	<1
			Lower layer				21.0		20	2	1	<1	<1
			Surface layer	2013/8/28	Sunny	22.0	0.5	1.9	12	9	5	<1	<1
			Lower layer				21.0		17	2	4	<1	<1
41	Shitoki Dam Reservoir		Surface layer	2013/7/18	Cloudy	35.3	0.5	1.3	11	7	3	<1	<1
			Lower layer				34.3		13	2	4	<1	<1
			Surface layer	2013/8/27	Sunny	34.7	0.5	3.2	9	2	2	<1	<1
			Lower layer				33.7		13	4	3	<1	<1

• Sampling points are listed from north to south.

• Radioactive materials concentrations contain some measurement errors but are not noted here.

OLake and Headwater (Hamadori): Sediment and Surrounding Environment (Lake Shore) Monitoring Results

Sampling point			Sampling date	Weather	Full depth (m)	Sediment						Surrounding environment (lake shore)				Remarks		
						General items			Concentration of radioactive material [Bq/kg (dried mud)]			Soil						
No.	Point		Municipality			Mud sampling depth (cm)	Mud content %	Property	Radioactive cesium			Property	Concentration of radioactive material [Bq/kg (dry)]			Air dose (μSv/h)		
									Cs134	Cs137	Total		Radioactive cesium					
											Cs134	Cs137	Total					
1	Soso (farm pond)	Takei	Shinchimachi Town	2013/7/3	Cloudy	1.9	5	24	Silt	470	810	1,280	Loamy	850	1,700	2,550	0.28	
				2013/8/6	Light rain	2.8	10	24	Silt	850	1,800	2,650	Loamy	380	740	1,120	0.25	
2		Uchizawa	Somashi City	2013/7/4	Cloudy	2.2	10	63	Silt/sand	130	240	370	Loamy	150	320	470	0.15	
					2013/8/6	Cloudy	2.8	10	74	Silt/sand	170	360	530	Loamy	160	340	500	0.13
3	Matsugabo Dam (Utawako Lake)			2013/7/5	Cloudy	21.0	10	21	Silt	8200	18,000	26,200	Sandy	1,100	2,200	3,300	0.54	
				2013/8/6	Light rain	29.8	10	31	Silt/sand	6900	14,000	20,900	Loamy	1,500	3,300	4,800	0.52	
4	Mano Dam		Iitatemura Village	2013/7/3	Cloudy	45.5	10	29	Silt	1600	3,400	5,000	Loamy	3,100	6,500	9,600	1.08	
				2013/7/24	Cloudy	43.0	10	22	Silt	5500	12,000	17,500	Loamy	3,400	7,200	10,600	1.15	
				2013/8/29	Sunny	50.5	10	25	Silt	5200	12,000	17,200	Loamy	2,800	6,100	8,900	0.96	
				2013/9/25	Cloudy	48.6	10	24	Silt	11000	25,000	36,000	Loamy	6,800	15,000	21,800	1.04	
5	Soso (farm pond)	Ainosawa		2013/8/8	Sunny	1.0	10	30	Silt/sand	22000	48,000	70,000	Loamy	3,200	6,800	10,000	1.86	
6	Ganbe Dam Reservoir			2013/8/5	Cloudy	6.4	10	39	Silt	25000	53,000	78,000	Loamy	8,500	18,000	26,500	2.79	
7	Soso (farm pond)	Fugane Dam		2013/8/8	Sunny	1.0	10	55	Sand	10000	22,000	32,000	Loamy	4,100	8,700	12,800	2.69	
8		Sasatoge		2013/8/8	Sunny	1.0	10	45	Silt	2300	5,200	7,500	Loamy	6,100	13,000	19,100	2.12	
9	Takanokura Dam Reservoir			2013/7/2	Sunny	0.7	10	55	Sand/silt	3200	6,600	9,800	Loamy	4,500	9,300	13,800	2.00	
				2013/8/5	Sunny	0.6	10	52	Sand/silt	4100	9,100	13,200	Loamy	5,000	11,000	16,000	1.90	
10	Yokokawa Dam Reservoir		Minamisomashi City	2013/7/2	Sunny	4.5	10	64	Silt/sand	9300	20,000	29,300	Loamy	670	1,400	2,070	1.79	
				2013/8/6	Light rain	3.3	5	82	Sand	3900	8,600	12,500	Loamy	3,800	7,900	11,700	1.62	
11	Soso (farm pond)	Tarayachi		2013/8/9	Cloudy	-	-	-	-	-	-	-	Loamy	1,800	4,000	5,800	0.89	Unable to collect samples due to drought
12		Takeshiyachi		2013/8/7	Sunny	0.5	10	74	Sand/gravel	190	410	600	Loamy	370	850	1,220	0.26	
13		Ryugasaku		2013/8/7	Sunny	0.5	10	63	Silt	2000	4,600	6,600	Loamy	1,800	4,000	5,800	0.73	
14		Uwatashiro	Kawamatamachi Town	2013/8/26	Sunny	0.7	10	22	Silt	210	570	780	Loamy	1,500	3,400	4,900	1.24	
15		Koakuto	Namiemachi Town	2013/8/30	Cloudy	0.2	10	64	Silt/sand	4600	10,000	14,600	Loamy	55,000	120,000	175,000	9.63	
16		Yosouchi	Iitatemura Village	2013/8/7	Sunny	0.6	10	66	Sand	6700	14,000	20,700	Loamy	5,400	12,000	17,400	2.19	
17		Myobusaku No. 2	Minamisomashi City	2013/8/9	Cloudy	1.0	10	48	Silt	2000	4,400	6,400	Loamy	780	1,800	2,580	0.35	
18	Ogaki Dam		Namiemachi Town	2013/7/25	Cloudy	1.0	5	80	Sand/silt	1400	3,100	4,500	Loamy	1,200	2,600	3,800	2.28	
				2013/8/12	Cloudy	1.3	10	75	Sand/silt	2900	6,400	9,300	Loamy	620	1,400	2,020	2.44	
				2013/9/19	Sunny	0.7	10	75	Gravel/sand	2600	5,700	8,300	Loamy	570	1,200	1,770	2.22	
19	Soso (farm pond)	Uenokawa	Katsuraomura Village	2013/8/26	Sunny	0.2	8	47	Sand	2000	4,400	6,400	Loamy	1,300	3,000	4,300	0.73	
20		Heigoiri	Iitatemura Village	2013/8/28	Sunny	0.6	10	22	Silt	12000	27,000	39,000	Loamy	3,200	7,000	10,200	2.44	
21		Mekurasawa No. 2	Namiemachi Town	2013/8/13	Sunny	0.3	5	67	Sand	2500	5,800	8,300	Sandy	17,000	40,000	57,000	3.36	
22		Joroku		2013/8/13	Sunny	0.3	5	35	Silt/sand	22000	52,000	74,000	Loamy	19,000	45,000	64,000	4.08	
23	Furumichigawa Power Plant Dam		Tamura City	2013/7/5	Cloudy	8.1	10	24	Silt	3200	6,700	9,900	Loamy	980	2,100	3,080	0.43	
				2013/8/7	Sunny	7.1	10	23	Silt	3100	6,900	10,000	Loamy	1,100	2,400	3,500	0.44	
24		Sawairi No. 1	Futabamachi Town	2013/8/13	Sunny	0.3	5	24	Silt	89000	190,000	279,000	Loamy	58,000	130,000	188,000	23.64	
25	Soso (farm pond)	Suzunai No.4	Okumamachi Town	2013/8/2	Cloudy	0.3	10	78	Sand	8700	19,000	27,700	Loamy	100,000	220,000	320,000	21.10	
26		Nishihaguro	Futabamachi Town	2013/8/2	Cloudy	0.5	10	75	Sand	12000	27,000	39,000	Loamy	21,000	45,000	66,000	5.25	

OLake and Headwater (Hamadori): Sediment and Surrounding Environment (Lake Shore) Monitoring Results

Sampling point			Sampling date	Weather	Full depth (m)	Sediment						Surrounding environment (lake shore)					Remarks
						General items			Concentration of radioactive material [Bq/kg (dried mud)]			Property	Soil				
No.	Point	Municipality	Mud sampling depth (cm)	Mud content %	Property	Radioactive cesium			Property	Concentration of radioactive material [Bq/kg (dry)]			Air dose (μSv/h)				
						Cs134	Cs137	Total		Cs134	Cs137	Total					
27	Sakashita Dam	Okumamachi Town	2013/7/3	Light rain	24.0	10	25	Silt	6700	14,000	20,700	Loamy	3,300	7,000	10,300	1.31	
			2013/8/30	Cloudy	19.6	10	79	Sand	110	240	350	Loamy	2,300	5,200	7,500	1.27	
28	Soso (farm pond)	Atamamori 2	2013/8/2	Cloudy	0.6	10	62	Sand	2200	4,800	7,000	Loamy	11,000	24,000	35,000	1.92	
29		Yonomori	Tomioamachi Town	2013/7/3	Cloudy	1.1	8	42	Silt	16000	34,000	50,000	Loamy	3,900	8,600	12,500	4.20
	30	Takikawa Dam	Kawauchimura Vill	2013/8/7	Sunny	1.1	10	48	Silt/sand	13000	29,000	42,000	Loamy	5,800	13,000	18,800	3.96
2013/7/25				Cloudy	1.0	5	80	Sand/gravel	1500	3,200	4,700	Loamy	12,000	26,000	38,000	2.87	
2013/8/12				Sunny	0.8	10	77	Sand/gravel	720	1,600	2,320	Loamy	9,300	20,000	29,300	2.77	
31	Soso (farm pond)	Takinosawa	2013/8/30	Sunny	0.4	10	38	Silt	2300	5,100	7,400	Loamy	5,400	12,000	17,400	1.37	
32		Kamisigeoka No.1	Narahamachi Town	2013/8/9	Sunny	0.2	10	27	Silt	7400	16,000	23,400	Loamy	1,400	3,100	4,500	1.24
33		Shimoshigeoka	Narahamachi Town	2013/8/9	Sunny	0.3	5	51	Silt/sand	4600	10,000	14,600	Sandy	1,800	4,100	5,900	0.59
34	Komachi Dam	Onomachi Town	2013/7/5	Cloudy	8.4	8	27	Silt	990	1,800	2,790	Loamy	250	560	810	0.16	
			2013/8/8	Sunny	7.9	10	22	Silt	2000	4,300	6,300	Loamy	190	380	570	0.17	
35	Kido Dam	Narahamachi Town	2013/7/4	Sunny	37.5	8	28	Silt	4800	10,000	14,800	Loamy	250	510	760	0.44	
			2013/7/26	Cloudy	29.0	10	52	Silt/sand	1300	2,900	4,200	Loamy	620	1,300	1,920	0.41	
			2013/8/30	Sunny	29.5	10	76	Sand	250	570	820	Loamy	600	1,300	1,900	0.39	
36	Soso (farm pond)	Otsutsumi	2013/9/24	Sunny	11.0	10	34	Silt/sand	1200	2,700	3,900	Loamy	330	750	1,080	0.36	
37	Iwaki (farm pond)	Shinike	2013/8/9	Sunny	1.1	5	48	Silt	3400	7,100	10,500	Loamy	67	130	197	0.26	
			2013/7/17	Cloudy	1.3	10	81	Sand	21	57	78	Sandy	310	670	980	0.26	
38	Kodama Dam Reservoir (Kodamako Lake)	Iwakishi City	2013/8/27	Sunny	1.8	10	77	Sand	37	75	112	Sandy	400	870	1,270	0.26	
			2013/7/19	Sunny	55.4	10	24	Silt	620	1,400	2,020	Sandy	150	280	430	0.15	
39	Iwaki (farm pond)	Kanoritsutsumishita	2013/8/26	Sunny	54.9	10	28	Silt	530	1,200	1,730	Sandy	200	450	650	0.16	
			2013/7/17	Cloudy	0.6	5	69	clay/sand	150	350	500	Sandy	160	340	500	0.22	
40	Takashiba Dam Reservoir (Takashibako Lake)	Iwakishi City	2013/8/28	Sunny	0.5	5	65	Sand	160	350	510	Sandy	140	330	470	0.16	
			2013/7/18	Sunny	22.0	10	39	Silt	290	580	870	Sandy	3,600	7,200	10,800	0.19	
41	Shitoki Dam Reservoir	Iwakishi City	2013/8/28	Sunny	22.0	10	36	Silt	270	610	880	Loamy	2,200	4,700	6,900	0.22	
			2013/7/18	Cloudy	35.3	10	33	Silt	370	750	1,120	Sandy	560	1,200	1,760	0.30	
			2013/8/27	Sunny	34.7	10	29	Silt	360	840	1,200	Loamy	1,600	3,300	4,900	0.23	

* Samples for surrounding environment (soil) were generally collected from 5 points in 3m square in the river terrace, etc., and mixed. Depending on the site situation, factors, such as the area of sampling may be much smaller, may cause figures to vary significantly.

* Sampling points are listed from north to south.

* Air dose was measured with a survey meter, TCS-172B of Hitachi-Aloka Medical, Ltd.

* Radioactive materials concentrations contain some measurement errors but are not noted here.

OLake and Headwater (Nakadori): Water Quality Monitoring Results

Sampling point				Sampling date	Weather	Full depth (m)	General items					Radioactive material concentrations (Bq/L)		Remarks			
No.	Point	Municipality	Layer				Sampling depth (m)	Secchi disk depth (m)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity	Radioactive cesium					
												Cs134	Cs137				
42	Surikamigawa Dam Reservoir	Fukushimashi City	Surface layer	2013/7/2	Cloudy	75.3	0.5	3.5	4	<1	1	<1	<1				
			Lower layer				74.3		6	<1	2	<1	<1				
			Surface layer	2013/8/29	Sunny	77.5	0.5	4.6	5	4	1	<1	<1				
			Lower layer				76.5		9	2	1	<1	<1				
43	Handanuma Lake (farm pond)	Korimachi Town	Surface layer	2013/7/10	Sunny	0.9	0.0	>0.9	13	<1	1	<1	<1				
			Lower layer				-		-	-	-	-	-	Collected only from the surface layer due to shallow water			
			Surface layer	2013/8/28	Sunny	0.6	0.0	>0.6	12	2	2	<1	<1				
			Lower layer				-		-	-	-	-	Collected only from the surface layer due to shallow water				
			Surface layer				0.0		10	4	3	<1	<1				
			Lower layer				-		-	-	-	-	-	Collected only from the surface layer due to shallow water			
44	Oike Pond (farm pond)	Motomiyashi City	Surface layer	2013/8/22	Sunny	0.9	0.0	>0.9	5	2	2	<1	<1				
			Lower layer				-		-	-	-	-	Collected only from the surface layer due to shallow water				
45	Miharu Dam	Miharumachi Town	Surface layer	2013/7/10	Cloudy	32.3	0.5	1.8	17	3	4	<1	<1				
			Lower layer				31.3		19	5	8	<1	<1				
			Surface layer	2013/7/29	Cloudy	30.0	0.5	1.4	15	6	4	<1	<1				
			Lower layer				29.0		18	6	4	<1	<1				
			Surface layer				2013/8/26		Sunny	30.0	0.5	1.8	14	7	5	<1	<1
			Lower layer								29.0		21	5	7	<1	<1
			Surface layer	2013/9/24	Sunny	31.0	0.5	1.0	11	11	7	<1	<1				
			Lower layer				30.0		22	18	9	<1	<1				
46	Hounokusa (farm pond)	Koriyamashi City	Surface layer	2013/8/21	Cloudy	1.0	0.0	>1.0	58	6	4	<1	<1				
			Lower layer				-		-	-	-	-	Collected only from the surface layer due to shallow water				
47	Hatoriko Lake	Teneimura Village	Surface layer	2013/7/4	Cloudy	16.5	0.5	4.2	4	<1	1	<1	<1				
			Lower layer				15.5		5	1	1	<1	<1				
			Surface layer	2013/8/27	Sunny	15.8	0.5	8.2	4	<1	1	<1	<1				
			Lower layer				14.8		5	1	2	<1	<1				
48	Hirodaira (farm pond)	Sukagawashi City	Surface layer	2013/8/27	Sunny	0.8	0.0	>0.8	12	2	3	<1	<1				
			Lower layer				-		-	-	-	-	Collected only from the surface layer due to shallow water				
49	Sengosawa Dam Reservoir	Ishikawamachi Town	Surface layer	2013/7/4	Cloudy	12.8	0.5	0.9	13	14	12	<1	<1				
			Lower layer				11.8		18	6	9	<1	<1				
			Surface layer	2013/8/8	Sunny	17.9	0.5	0.5	11	24	15	<1	<1				
			Lower layer				16.9		17	12	10	<1	<1				
50	Watariike Pond (farm pond)	Yabukimachi Town	Surface layer	2013/8/22	Cloudy	2.0	0.0	0.3	19	14	12	<1	<1				
			Lower layer				-		-	-	-	-	Collected only from the surface layer due to shallow water				
51	Izumikawa (farm pond)	Shirakawashi City	Surface layer	2013/8/21	Sunny	0.7	0.0	>0.7	17	7	8	<1	<1				
			Lower layer				-		-	-	-	-	Collected only from the surface layer due to shallow water				
52	Hokkawa Dam	Nishigomura Village	Surface layer	2013/7/4	Cloudy	22.0	0.5	5.5	6	1	1	<1	<1				
			Lower layer				21.0		6	<1	1	<1	<1				
			Surface layer	2013/8/27	Sunny	25.5	0.5	5.2	6	<1	1	<1	<1				
			Lower layer				24.5		5	1	1	<1	<1				
53	Nanko Lake	Shirakawashi City	Surface layer	2013/8/21	Sunny	1.6	0.0	1.0	31	4	4	<1	<1				
			Lower layer				-		-	-	-	-	Collected only from the surface layer due to shallow water				

• Sampling points are listed from north to south.

• Radioactive materials concentrations contain some measurement errors but are not noted here.

OLake and Headwater (Nakadori Area): Sediment and Surrounding Environment (Lake Shore) Monitoring Results

Sampling point			Sampling date	Weather	Full depth (m)	Sediment						Surrounding environment (lake shore)					Remarks
						General items			Concentration of radioactive material [Bq/kg (dried mud)]			Soil					
No.	Point	Municipality				Mud sampling depth (cm)	Mud content (%)	Property	Radioactive cesium			Property	Concentration of radioactive material [Bq/kg (dry)]				
									Cs134	Cs137	Total		Air dose (μSv/h)	Radioactive cesium			
														Cs134	Cs137	Total	
42	Surikamigawa Dam Reservoir	Fukushimashi City	2013/7/2	Cloudy	75.3	10	42	Clay	770	1,700	2,470	Loamy	210	490	700	0.19	
			2013/8/29	Sunny	77.5	10	41	Silt	820	1,900	2,720	Loamy	350	820	1,170	0.17	
43	Handanuma Lake (farm pond)	Korimachi Town	2013/7/10	Sunny	0.9	5	68	Sand/gravel	410	850	1,260	Loamy	3,200	6,800	10,000	0.64	
			2013/8/28	Sunny	0.6	10	52	Sand/silt	870	1,900	2,770	Loamy	1,400	3,100	4,500	0.44	
			2013/9/18	Sunny	0.6	10	71	Sand/gravel	170	350	520	Loamy	1,900	4,100	6,000	0.61	
44	Oike Pond (farm pond)	Motomiyashi City	2013/8/22	Sunny	0.9	10	78	Sand/clay	140	330	470	Loamy	930	2,100	3,030	0.82	
45	Miharu Dam	Miharumachi Town	2013/7/10	Cloudy	32.3	10	24	Silt	1,500	3,100	4,600	Loamy	420	870	1,290	0.24	
			2013/7/29	Cloudy	30.0	5	21	Silt	1,600	3,200	4,800	Loamy	320	680	1,000	0.24	
			2013/8/26	Sunny	30.0	10	36	Silt	2,000	4,500	6,500	Loamy	300	600	900	0.22	
			2013/9/24	Sunny	31.0	10	26	Silt	2,100	4,400	6,500	Loamy	180	350	530	0.21	
46	Hounokusa (farm pond)	Koriyamashi City	2013/8/21	Cloudy	1.0	10	70	Clay	24	59	83	Sandy/loamy	1,100	2,400	3,500	0.45	
47	Hatoriko Lake	Teneimura Village	2013/7/4	Cloudy	16.5	10	30	Silt	850	1,900	2,750	Loamy	200	410	610	0.15	
			2013/8/27	Sunny	15.8	10	26	Silt	830	1,800	2,630	Loamy	250	600	850	0.11	
48	Hirodaira (farm pond)	Sukagawashi City	2013/8/27	Sunny	0.8	10	49	Silt/sand	30	76	106	Loamy	530	1,200	1,730	0.15	
49	Sengosawa Dam Reservoir	Ishikawamachi Town	2013/7/4	Cloudy	12.8	10	24	Silt	870	1,800	2,670	Loamy	280	600	880	0.17	
			2013/8/8	Sunny	17.9	10	19	Silt	2,400	4,900	7,300	Loamy	280	620	900	0.17	
50	Watariike Pond (farm pond)	Yabukimachi Town	2013/8/22	Cloudy	2.0	10	69	Sand/clay	52	150	202	Loamy	130	310	440	0.11	
51	Izumikawa (farm pond)	Shirakawashi City	2013/8/21	Sunny	0.7	10	76	Sand/gravel	170	370	540	Loamy	1,400	3,200	4,600	0.44	
52	Hokkawa Dam	Nishigomura Village	2013/7/4	Cloudy	22.0	10	65	Silt	3,600	7,500	11,100	Loamy	560	1,200	1,760	0.42	
			2013/8/27	Sunny	25.5	10	27	Silt	2,600	5,900	8,500	Loamy	1,100	2,500	3,600	0.33	
53	Nanko Lake	Shirakawashi City	2013/8/21	Sunny	1.6	10	14	Silt	1,400	2,900	4,300	Loamy	410	840	1,250	0.31	

* Samples for surrounding environment (soil) were generally collected from 5 points in 3m square in the river terrace, etc., and mixed. Depending on the site situation, factors, such as the area of sampling may be much smaller, may cause figures to vary significantly.

* Sampling points are listed from north to south.

* Air dose was measured with a survey meter, TCS-172B of Hitachi-Aloka Medical, Ltd.

* Radioactive materials concentrations contain some measurement errors but are not noted here.

OLake and Headwater (Aizu Area): Water Quality Monitoring Results

Sampling point			Sampling date	Weather	Full depth (m)	General items					Radioactive material concentrations (Bq/L)		Remarks		
No.	Point	Municipality				Sampling depth (m)	Secchi disk depth (m)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity	Radioactive cesium				
											Cs134	Cs137			
54	Necchu Dam	Surface layer	2013/8/5	Sunny	52.0	0.5	2.5	5	<1	2	<1	<1			
		Lower layer				51.0		6	1	2	<1	<1			
55	Soharako Lake	Surface layer	2013/8/5	Sunny	6.6	0.5	2.5	3	1	2	<1	<1			
		Lower layer				5.6		3	1	2	<1	<1			
56	Hibarako Lake	Surface layer	2013/7/4	Cloudy	23.5	0.5	4.0	6	2	1	<1	<1			
		Lower layer				22.5		5	<1	1	<1	<1			
		Surface layer	2013/8/5	Sunny	24.5	0.5	5.0	5	<1	1	<1	<1			
		Lower layer				23.5		5	<1	1	<1	<1			
		Surface layer	2013/9/12	Cloudy	22.0	0.5	3.5	5	1	1	<1	<1			
		Lower layer				21.0		5	2	2	<1	<1		<1	
57	Onogawako Lake	Surface layer	2013/7/3	Cloudy	13.2	0.5	3.5	6	2	1	<1	<1			
		Lower layer				12.2		4	1	1	<1	<1		<1	
		Surface layer	2013/8/5	Cloudy	12.5	0.5	4.5	6	<1	1	<1	<1			
		Lower layer				11.5		5	<1	1	<1	<1		<1	
		Surface layer	2013/9/9	Sunny	12.8	0.5	4.0	6	1	1	<1	<1			
		Lower layer				11.8		6	1	2	<1	<1		<1	
58	Akimotoko Lake	Surface layer	2013/7/4	Cloudy	31.5	0.5	6.5	4	1	1	<1	<1			
		Lower layer				30.5		5	<1	1	<1	<1			
		Surface layer	2013/8/7	Sunny	32.0	0.5	4.0	5	<1	1	<1	<1			
		Lower layer				31.0		9	<1	1	<1	<1		<1	
		Surface layer	2013/9/9	Sunny	31.4	0.5	5.0	6	<1	1	<1	<1			
		Lower layer				30.4		5	2	1	<1	<1		<1	
59	Bishamonnuma Lake	Surface layer	2013/8/7	Sunny	8.0	0.5	5.5	56	<1	1	<1	<1			
		Lower layer				7.0		58	<1	1	<1	<1		<1	
60	Oguninuma Lake	Surface layer	2013/7/2	Cloudy	3.6	0.5	0.6	2	4	5	<1	<1			
		Lower layer				2.6		2	4	5	<1	<1		<1	
		Surface layer	2013/8/29	Cloudy	3.8	0.5	1.5	2	4	3	<1	<1			
		Lower layer				2.8		2	4	3	<1	<1		<1	
61	Aizu (farm pond)	Onuma Lake	2013/8/5	Cloudy	1.0	0.0	0.5	6	6	5	<1	<1	Collected only from the surface layer due to shallow water		
		Lower layer				-		-	-	-	-	-		-	
62	Center of the lake	Surface layer	2013/7/24	Cloudy	97.0	0.5	8.5	11	<1	0	<1	<1			
		Lower layer				96.0		12	<1	1	<1	<1		<1	
		Surface layer	2013/8/9	Cloudy	96.8	0.5	8.1	11	<1	0	<1	<1			
		Lower layer				95.8		13	<1	0	<1	<1		<1	
63	Takahashigawa River Estuary	Surface layer	2013/9/10	Cloudy	97.5	0.5	10.5	11	<1	0	<1	<1			
		Lower layer				96.5		12	<1	0	<1	<1		<1	
64	Ogurogawa River Estuary	Surface layer	2013/8/9	Sunny	1.5	0.0	>1.5	11	<1	0	<1	<1	Collected only from the surface layer due to shallow water		
		Lower layer				-		-	-	-	-	-		-	
65	Tenjinhama Beach	Surface layer	2013/8/9	Sunny	2.0	0.0	>2.0	13	<1	1	<1	<1	Collected only from the surface layer due to shallow water		
		Lower layer				-		-	-	-	-	-		-	
66	Hishinunmagawa River Estuary	Surface layer	2013/8/9	Sunny	1.8	0.0	>1.8	11	<1	0	<1	<1	Collected only from the surface layer due to shallow water		
		Lower layer				-		-	-	-	-	-		-	
		67	Intake of Asakasosui	Surface layer	2013/7/24	Cloudy	4.0	0.5	3.0	11	1	2	<1	<1	
				Lower layer				3.0		11	1	2	<1	<1	
				Surface layer	2013/8/9	Cloudy	4.0	0.5	>4.0	11	<1	0	<1	<1	
				Lower layer				3.0		11	<1	0	<1	<1	
68	Hamajihama Beach	Surface layer	2013/9/10	Cloudy	3.7	0.5	>3.7	11	<1	1	<1	<1			
		Lower layer				2.7		11	<1	1	<1	<1		<1	
69	Funatsu Port	Surface layer	2013/8/9	Sunny	5.6	0.5	>5.6	11	<1	0	<1	<1			
		Lower layer				4.6		11	<1	0	<1	<1		<1	
70	Offshore of Funatsugawa River Estuary	Surface layer	2013/8/9	Cloudy	6.0	0.5	>6.0	11	<1	0	<1	<1			
		Lower layer				5.0		11	<1	0	<1	<1		<1	
71	Seishogahama Beach	Surface layer	2013/8/9	Cloudy	4.0	0.5	>4.0	11	<1	0	<1	<1			
		Lower layer				3.0		11	<1	0	<1	<1		<1	
72	Haragawa River Estuary	Surface layer	2013/8/9	Cloudy	6.7	0.5	>6.7	11	<1	0	<1	<1			
		Lower layer				5.7		11	<1	1	<1	<1		<1	
73	Koishigahama Floodgate	Surface layer	2013/8/9	Sunny	16.3	0.5	7.6	11	<1	0	<1	<1			
		Lower layer				15.3		12	<1	1	<1	<1		<1	
74	Higashiyama Dam Reservoir	Surface layer	2013/7/24	Cloudy	5.6	0.5	>5.6	11	<1	1	<1	<1			
		Lower layer				4.6		11	<1	1	<1	<1		<1	
		Surface layer	2013/8/9	Cloudy	5.5	0.5	>5.5	11	<1	0	<1	<1			
		Lower layer				4.5		11	<1	0	<1	<1		<1	
75	Center of the lake	Surface layer	2013/9/10	Cloudy	4.9	0.5	>4.9	11	<1	1	<1	<1			
		Lower layer				3.9		11	<1	1	<1	<1		<1	
76	Numazawako Lake	Surface layer	2013/8/28	Sunny	30.5	0.5	3.0	4	4	1	<1	<1			
		Lower layer				29.5		4	<1	1	<1	<1		<1	
77	Offshore of Maenosawagawa River Estuary	Surface layer	2013/8/13	Sunny	93.0	0.5	11.0	5	<1	0	<1	<1			
		Lower layer				92.0		5	<1	0	<1	<1		<1	
78	Midpoint between the center of the lake and off the estuary (at the depth of 30 m)	Surface layer	2013/8/13	Sunny	30.0	0.5	11.0	5	<1	0	<1	<1			
		Lower layer				29.0		5	<1	0	<1	<1		<1	
79	Offshore of Maenosawagawa River Estuary	Surface layer	2013/8/13	Sunny	5.7	0.5	>5.7	5	<1	1	<1	<1			
		Lower layer				4.7		5	<1	1	<1	<1		<1	

OLake and Headwater (Aizu Area): Water Quality Monitoring Results

Sampling point			Sampling date	Weather	Full depth (m)	General items					Radioactive material concentrations (Bq/L)		Remarks	
No.	Point					Municipality	Sampling depth (m)	Secchi disk depth (m)	Electrical conductivity (mS/m)	SS (mg/L)	Turbidity	Radioactive cesium		
												Cs134		Cs137
78	Aizu (farm pond)	Terairi	Aizumisatomachi Town	2013/8/8	Sunny	1.8	0.0	1.5	5	2	2	<1	<1	Collected only from the surface layer due to shallow water
		Lower layer					-	-	-	-	-	-	-	
79	Okawa Dam Reservoir		Aizuwakamatsushi City	2013/8/7	Sunny	9.8	0.5	3.0	6	<1	1	<1	<1	
							Lower layer	8.8	6	<1	1	<1	<1	
80	Tagokura Reservoir		Tadamimachi Town	2013/8/6	Cloudy	97.0	0.5	3.5	2	<1	2	<1	<1	
							Lower layer	96.0	4	1	1	<1	<1	
81	Minamiaizu (farm pond)	Fukui	Tadamimachi Town	2013/8/6	Cloudy	1.0	0.0	0.9	2	3	4	<1	<1	Collected only from the surface layer due to shallow water
							Lower layer	-	-	-	-	-	-	
82	Tajima Dam Reservoir (Funchanako Lake)		Minamiaizumachi Town	2013/8/7	Sunny	17.5	0.5	2.0	3	3	4	<1	<1	
							Lower layer	16.5	3	4	4	<1	<1	
83	Okutadami Reservoir		Tadamimachi Town	2013/7/16	Sunny	21.0	0.5	2.4	3	14	16	<1	<1	
							Lower layer	20.0	2	3	3	<1	<1	
				2013/8/27	Cloudy	24.5	0.5	4.0	3	1	1	<1	<1	
							Lower layer	23.5	3	1	1	<1	<1	
				2013/9/12	Cloudy	19.5	0.5	4.0	3	4	1	<1	<1	
							Lower layer	18.5	3	12	3	<1	<1	
84	Ozenuma Lake		Hinoematamura Village	2013/7/23	Cloudy	10.0	0.5	3.7	3	1	1	<1	<1	
							Lower layer	9.0	3	1	1	<1	<1	
				2013/8/20	Cloudy	7.5	0.5	2.5	3	2	2	<1	<1	
							Lower layer	6.5	4	2	2	<1	<1	
				2013/9/5	Cloudy	8.5	0.5	2.5	3	3	2	<1	<1	
							Lower layer	7.5	4	3	2	<1	<1	

• Sampling points are listed from north to south.

• Radioactive materials concentrations contain some measurement errors but are not noted here.

OLake and Headwater (Aizu Area): Sediment and Surrounding Environment (Lake Shore) Monitoring Results

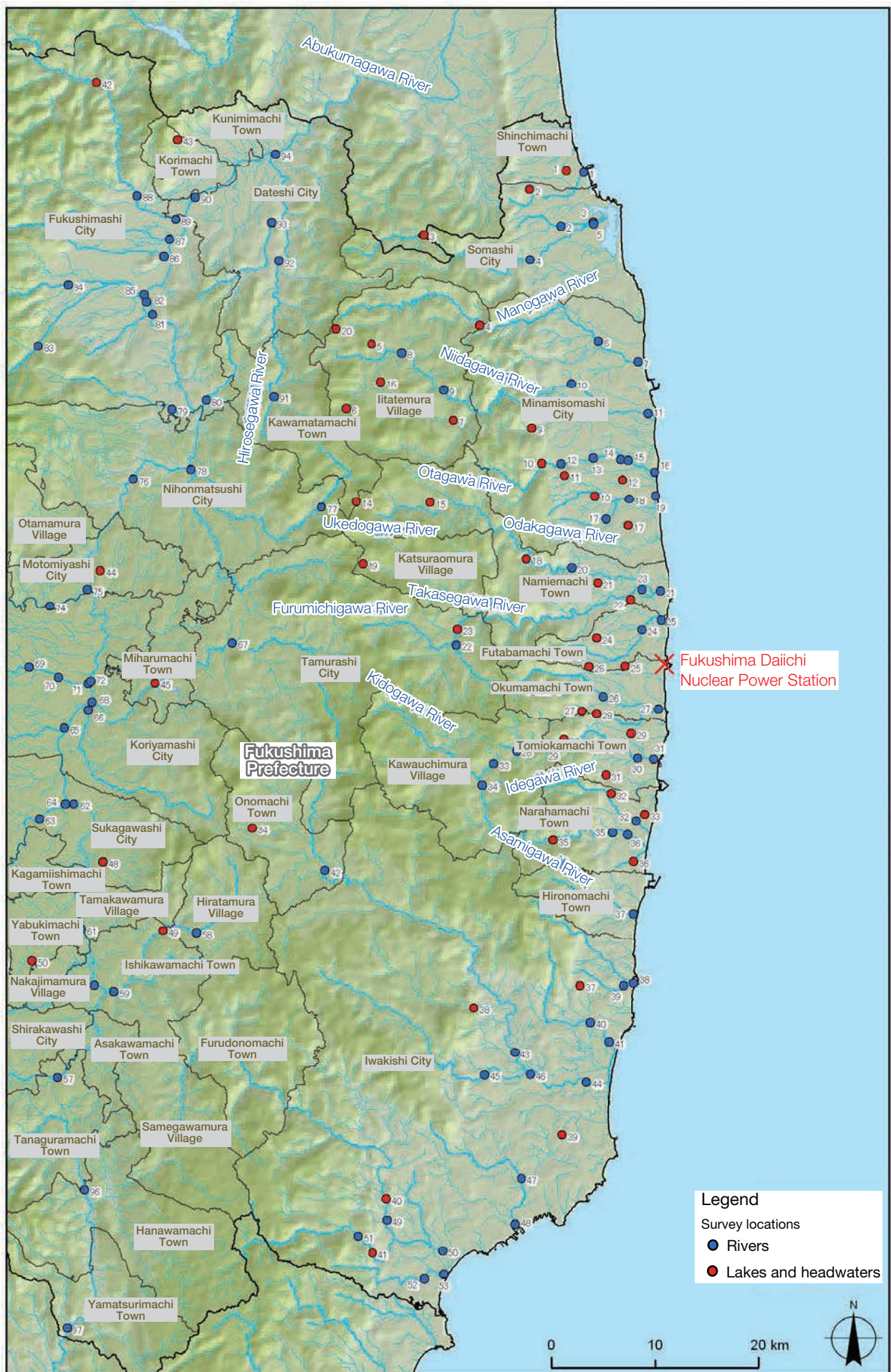
Sampling point			Sampling date	Weather	Full depth (m)	Sediment						Surrounding environment (lake shore)					Remarks	
No.	Point	Municipality				General items			Concentration of radioactive material [Bq/kg (dried mud)]			Soil						
						Mud sampling depth (cm)	Mud content %	Property	Radioactive cesium			Property	Concentration of radioactive material [Bq/kg (dry)]			Air dose (μSv/h)		
									Cs134	Cs137	Total		Cs134	Cs137	Total			
54	Nicchu Dam	Kitakatashi City	2013/8/5	Sunny	52.0	5	30	Silt/clay	380	760	1,140	Loamy	14	22	36	0.12		
55	Soharako Lake		2013/8/5	Sunny	6.6	5	28	Silt	320	720	1,040	Loamy	300	690	990	0.11		
56	Hibarako Lake	Kitashiobaramura Village	2013/7/4	Cloudy	23.5	5	23	Silt	82	260	342	Loamy	230	500	730	0.14		
			2013/8/5	Sunny	24.5	5	22	Silt	540	1,200	1,740	Loamy	190	450	640	0.11		
			2013/9/12	Cloudy	22.0	5	22	Silt	260	590	850	Loamy	570	1,300	1,870	0.14		
			2013/7/3	Cloudy	13.2	5	24	Silt	120	260	380	Loamy	170	340	510	0.19		
57	Onogawako Lake		2013/8/5	Cloudy	12.5	5	25	Silt	260	610	870	Loamy	100	200	300	0.18		
			2013/9/9	Sunny	12.8	5	24	Silt	<10	86	86	Loamy	770	1,700	2,470	0.19		
			2013/7/4	Cloudy	31.5	5	33	Silt	410	930	1,340	Loamy	85	170	255	0.11		
58	Akimoto Lake	Inawashiro-machi Town	2013/8/7	Sunny	32.0	5	39	Silt	120	260	380	Loamy	71	170	241	0.12		
			2013/9/9	Sunny	31.4	5	32	Silt	480	1,100	1,580	Loamy	220	490	710	0.12		
			2013/8/7	Sunny	8.0	5	8	Silt	160	410	570	Loamy	340	790	1,130	0.15		
59	Bishamonuma Lake	Kitashiobaramura Village	2013/7/2	Cloudy	3.6	5	11	Silt	210	410	620	Loamy	120	290	410	0.08		
60	Oguninuma Lake		2013/8/29	Cloudy	3.8	5	15	Silt	950	2,300	3,250	Loamy	340	770	1,110	0.10		
61	Aizu (farm pond)	Onuma Lake	Nishiazumachi Town	2013/8/5	Cloudy	1.0	4	54	Sand	140	340	480	Sandy/loamy	19	44	63	0.05	
62	Center of the lake	Aizuwakamatsushi City	2013/7/24	Cloudy	97.0	5	21	Silt	59	170	229	-	-	-	-	-	Mud sampling points not determined	
			2013/8/9	Cloudy	96.8	5	25	Silt	18	68	86	-	-	-	-	-	Mud sampling points not determined	
			2013/9/10	Cloudy	97.5	5	20	Silt	20	83	103	-	-	-	-	-	Mud sampling points not determined	
63	Takahashigawa River Estuary		2013/8/9	Cloudy	1.5	5	48	Sand/silt	43	87	130	Sandy	84	210	294	0.09		
64	Ogurogawa River Estuary		2013/8/9	Sunny	1.5	5	79	Sand/gravel	43	120	163	Loamy	170	320	490	0.10		
65	Tenjin-hama Beach		2013/8/9	Sunny	2.0	5	79	Sand	27	53	80	Sandy	70	140	210	0.06		
66	Hishinmagawa River Estuary	Inawashiro-machi Town	2013/8/9	Sunny	1.8	5	73	Sand/gravel	14	43	57	Sandy	23	33	56	0.05		
			2013/7/24	Cloudy	4.0	5	65	Sand	52	120	172	Loamy	350	840	1,190	0.11		
			2013/8/9	Cloudy	4.0	5	86	Sand	40	83	123	Loamy	18	42	60	0.11		
67	Intake of Asakasosui		2013/9/10	Cloudy	3.7	5	69	Sand	71	170	241	Loamy	120	230	350	0.09		
			2013/8/9	Sunny	5.6	5	79	Sand	51	100	151	Loamy	190	400	590	0.09		
			2013/8/9	Cloudy	6.0	5	78	Sand	57	130	187	Sandy	70	160	230	0.07		
68	Hamajihama Beach	Koriyamashi City	2013/8/9	Cloudy	4.0	5	75	Sand	34	73	107	Loamy	140	320	460	0.09		
69	Funatsu Port		2013/8/9	Cloudy	6.7	5	76	Sand	61	150	211	Sandy	30	83	113	0.06		
70	Offshore of Funatsugawa River Estuary		2013/8/9	Sunny	16.3	5	56	Sand/silt	140	330	470	Sandy	140	330	470	0.12		
71	Seishogahama Beach		2013/8/9	Cloudy	5.6	5	35	Silt/sand	46	98	144	Loamy	130	300	430	0.11		
72	Haragawa River Estuary	Aizuwakamatsushi City	2013/8/9	Sunny	5.5	5	35	Silt/sand	45	89	134	Loamy	150	320	470	0.12		
			2013/9/10	Cloudy	4.9	5	37	Silt/sand	68	160	228	Loamy	250	580	830	0.12		
			2013/8/28	Sunny	30.5	5	30	Silt	280	600	880	Loamy	140	350	490	0.13		
73	Koishigahama Floodgate	Inawashiro-machi Town	2013/8/13	Sunny	93.0	5	20	Silt	31	160	191	Loamy	180	380	560	0.12		
74	Higashiyama Dam Reservoir	Aizuwakamatsushi City	2013/8/13	Sunny	30.0	5	30	Silt	31	87	118	-	-	-	-	Mud sampling points not determined		
75	Center of the lake		2013/8/13	Sunny	5.7	5	78	Sand	39	95	134	-	-	-	-	Mud sampling points not determined		
76	Numazawako Lake	Kaneyamamachi Town	2013/8/13	Sunny	30.0	5	30	Silt	31	87	118	-	-	-	-	Mud sampling points not determined		
77	Offshore of Maemotawagawa River Estuary		2013/8/13	Sunny	5.7	5	78	Sand	39	95	134	-	-	-	-	Mud sampling points not determined		
78	Aizu (farm pond)	Terairi	Aizumisatomachi Town	2013/8/8	Sunny	1.8	5	39	Sand/silt	150	390	540	Loamy	58	110	168	0.08	
79	Okawa Dam Reservoir		2013/8/7	Sunny	9.8	8	37	Silt	15	34	49	Loamy	150	310	460	0.07		
80	Tagokura Reservoir		2013/8/6	Cloudy	97.0	8	31	Silt	140	270	410	Loamy	41	130	171	0.09		
81	Minamiaizu (farm pond)	Fukui	Tadamimachi Town	2013/8/6	Cloudy	1.0	5	77	Silt/clay	<10	12	12	Clay-loamy	<10	27	27	0.12	
82	Tajima Dam Reservoir (Funeharako Lake)	Minamiaizumachi Town	2013/8/7	Sunny	17.5	6	22	Silt	350	650	1,000	Loamy	15	69	84	0.06		
			2013/7/16	Sunny	21.0	7	73	Sand/silt	<10	24	24	Loamy	<10	<10	-	0.05		
			2013/8/27	Cloudy	24.5	10	71	Silt/sand	<10	34	34	Clay-loamy	38	82	120	0.05		
83	Okutadami Reservoir	Tadamimachi Town	2013/9/12	Cloudy	19.5	7	35	Silt/sand	79	180	259	Clay-loamy	<10	14	14	0.06		
			2013/7/23	Cloudy	10.0	10	10	Silt	62	140	202	Loamy	30	67	97	0.08		
			2013/8/20	Cloudy	7.5	6	11	Silt	12	39	51	Loamy	27	52	79	0.07		
84	Ozenuma Lake	Hinoemamura Village	2013/9/5	Cloudy	8.5	5	91	Silt	<10	<10	<10	Loamy	17	39	56	0.07		

* Samples for surrounding environment (soil) were generally collected from 5 points in 3m square in the river terrace, etc., and mixed. Depending on the site situation, factors, such as the area of sampling may be much smaller, may cause figures to vary significantly.

* Sampling points are listed from north to south.

* Air dose was measured with a survey meter, TCS-172B of Hitachi-Alsoka Medical, Ltd.

* Radioactive materials concentrations contain some measurement errors but are not noted here.



Legend

Survey locations

● Rivers

● Lakes and headwaters

