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= Environmental and Dietary Materials =

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Contents

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Environmental and Dietary Materials

1. Sampling and retrieval

(1) Rain and dry fallout

Rain and dry fallout were collected monthly in a stainless steel tray, 5000cm^2 in area. Deionized water was put into the tray so that the water level was kept more than 1cm during the sampling period.

At the end of the month, the water in the tray was transferred to a bottle. Water was added to the tray and the side and bottom were scrubbed. The slurry was transferred to the bottle. The washing was repeated with deionized water.

Mixed carrier solution of strontium and cesium was added to the sample. The sample solution was evaporated to dryness.

(2) Airborne dust

Airborne dust was collected by an appropriate filter and an air mover. The air mover was operated at a flow rate more than 3000 m^3 per month for three month sampling periods. The filter holder with the filter was mounted on a stand 1 to 1.5 m above the ground.

(3) Service water and fresh water

Water sample (service water, tap water or fresh water), 100L of each, was collected at the intake of the water-treatment plant and at the tap in the plant. The tap water sample was collected from the tap after water was left running for few minutes.

Mixed carrier solution of strontium and cesium was added to the sample. The sample solution was evaporated to dryness.

(4) Soil

Soil sample was collected from the locations in spacious, flat and undisturbed area. Soil core was taken from two layers of different depths, 5 cm (surface soil) and 5 – 20 cm. The sample was dried at 105°C and then passed through 2 mm sieve after removal of pebbles and plant roots.

(5) Seawater

Seawater was collected at the fixed stations. The seawater was put into 20 L polyethylene containers and then acidified with concentrated hydrochloric acid. Two hundred mL of seawater was also collected simultaneously at the same stations to determine the chlorinity of the samples.

(6) Sediment

Sediment was collected using a conventional sediment sampler at the same stations for the seawater sample. The sampling stations were selected taking the following criteria into account.

a. The depth of water exceeds 1 m at low tide.
b. Significant sediment movement is not observed in the vicinity of the sampling stations.

The sample collected was spread on a stainless steel dish after filtration of water. The sample was dried at 105°C in a drying oven and then passed through 2mm sieve after removal of pebbles, shells and other foreign materials.

(7) Rice

Polished rice was collected or purchased at a rice-producing district. The sample was dried at 105°C and was reduced to ashes at 450°C in porcelain dishes in an electric furnace.

(8) Milk

Raw milk was collected in producing districts and commercial milk was purchased in consuming area. Milk sample was evaporated to dryness in a steel or porcelain dish or dried at 105°C in porcelain dishes and reduced to ashes at 450°C in an electric furnace.

(9) Vegetables

Spinach and Japanese radish were selected as the representatives for edible herbs and for edible roots, respectively. After removing soil, the samples was dried at 105°C and reduced to ashes at 450°C in porcelain dishes in an electric furnace.

(10) Tea

Manufactured green tea was collected. The sample was dried at 105°C and was reduced to ashes at 450°C in a steel or porcelain dishes in an electric furnace.

(11) Fish, shellfish and seaweeds

a. Sea fish and freshwater fish

Fish was collected or purchased. After removing inedible part of big fish sample, the sample was dried at 105°C and reduced to ashes at 450°C in porcelain dishes in an electric furnace.

b. Shellfish

Shellfish was collected or purchased.

After removing the shells, the sample was dried at 105°C and reduced to ashes at 450°C in porcelain dishes in an electric furnace.

c. Seaweeds

Edible seaweeds were collected. After removing sand and adhering materials, the samples were dried at 105°C and reduced to ashes at 450°C in porcelain dishes in an electric furnace.

Table 1 Details of sample collection

Sample	Frequency of sampling	Quantity of sample
= Environmental materials =		
(1) Rain and dry fallout	Monthly	
(2) Airborne dust	Quarterly	10000 m^3 /3 months
(3) Service water and freshwater		
1. Service water (source water)	Yearly	100 L
2. Service water (tap water)	Yearly	100 L
3. Freshwater	Yearly	100 L
(4) Soil		
1. 0～5 cm	Yearly	4 kg
2. 5～20 cm	Yearly	12 kg
(5) Seawater	Yearly	40 L
(6) Sea sediments	Yearly	4 kg
= Dietary materials =		
(7) Rice	Yearly	3 kg (polished rice)
(8) Milk		
1. Producing districts	Yearly	3 L
2. Powdered milk	Semiannually	2～3 kg
(9) Vegetables	Semiannually	4 kg
(10) Tea	Yearly	500 g (manufactured tea)
(11) Fish, shellfish and seaweeds		
1. Sea fish	Yearly	4 kg
2. Freshwater fish	Yearly	4 kg
3. Shellfish	Yearly	4～5 kg
4. Seaweeds	Yearly	2～3 kg

2. Preparation of samples for radiochemical analysis

(1) Rain, service water and fresh water

The residue evaporated to dryness was decomposed with nitric acid and dissolved in hydrochloric acid.

(2) Soil and sea sediment

Dried sample was ground into small particle (<0.25 mm in size) using a crusher. The sieved sample was heated in an electric muffle furnace at 450°C. After that, mixed carrier solution of strontium and cesium and hydrochloric acid were added to the sample and the sample was heated for three hours. The mixture was stirred intermittently during the heating process. Then the solution was filtered.

(3) Sea water

Ammonium phosphomolybdate (AMP) was added to the sample to adsorb cesium. After the supernatant was decanted off, the AMP was used for the analysis of cesium-137. The supernatant was used for the analysis of strontium-90.

(4) Rice

The ash sample was ground and passed through a 0.35 mm sieve. After sieving, mixed carrier solution of strontium and cesium and aqua regia were added to the sample, and the mixture was heated. The sample solution was evaporated to dryness. The residue was decomposed with nitric acid and dissolved in hydrochloric acid. The solution was filtered.

(5) Airborne dust, milk, vegetables, shell fish, seaweeds, tea and others

The samples were treated with the same procedure described in the section 2 (4).

3. Radiochemical separation of Strontium-90 and Cesium-137

(1) Strontium-90

The acidic sample solution, prepared as described in the section 2, was alkalinized with sodium hydroxide. Alkaline earth carbonate was precipitated by adding sodium carbonate. The supernatant was retained for determination of cesium-137.

The carbonate was dissolved in hydrochloric acid. Alkaline earth oxalates was precipitated at pH 4.2 by adding aqueous ammonia. The oxalate was heated at 600°C in an electric furnace. The residue was dissolved in 0.5M hydrochloric acid. The solution was passed through a chromatographic column containing cation exchange resin. Strontium absorbed on the resin was eluted with 2M ammonium acetate. The strontium fraction was evaporated to dryness. The residue was dissolved in water and iron carrier solution was added. The solution was alkalinized with carbonate-free aqueous ammonia and heated to complete the precipitation. The precipitation was filtered and discarded. The filtrate was diluted up to an appropriate volume with deionized water and then the strontium concentration was measured by ICP-AES to determine strontium recovery yield. Iron carrier solution was added to the sample solution. The solution was stored for at least 2 weeks. Yttrium-90 was co-precipitated with ferric hydroxide. The precipitate was filtered through a filter paper and mounted into a steel planchet.

(2) Cesium-137

After precipitating strontium carbonate, the supernatant was acidified with hydrochloric acid. AMP was added to adsorb cesium while stirring the mixture for thirty minutes and allowed to stand.

After the supernatant was decanted off and discarded, the solid was dissolved in 6M sodium hydroxide. The solution was adjusted to pH 8.2 with hydrochloric acid. The solution was filtered. Ethylenediaminetetraacetic acid tetrasodium solution was added to the filtrate. The solution was passed through a chromatographic column containing cation exchange resin to absorb cesium. Cesium was eluted from the column with 2M hydrochloric acid. The cesium fraction was evaporated to dryness. The residue was dissolved in water. Chloroplatinatic acid was added to the solution to produce cesium precipitate. The precipitate was filtered through a filter paper and weighed to determine the cesium recovery yield. The precipitate was covered with a mylar film and mounted into a steel planchet.

4. Radiochemical separation of Strontium-90 and Cesium-137 in sea water

(1) Strontium-90

The supernatant separated from sea water sample (described in 2(3)) was used for analysis.

For preliminary concentration of strontium, 40L of the sample solution was passed through a chlomatographic column containing cation exchange resin. The column was then washed with mixture solution of ammonium acetate and methanol. Strontium absorbed on the resin was eluted with 4M hydrochloric acid. The acidic sample solution was treated by the same procedures described in 3(1).

(2) Cesium-137

AMP fraction separated from sea water sample was used for analysis. AMP was dissolved in 6M sodium hydroxide, followed by the same procedures described in 3(2).

5. Determination of stable strontium, calcium and potassium

An weighed amount of soil or sea sediment was heated at 450°C in an electric muffle furnace and then treated with hydrochloric acid for extraction. The weighed aliquot of ashed samples of the vegetables, milk, fish, shellfish or seaweeds were decomposed with nitric acid and dissolved in hydrochloric acid. After filtered, the solution was diluted up to an appropriate volume with deionized water. Stable strontium and calcium were determined by ICP-AES and potassium was determined by flame photometry.

6. Counting

After the radiochemical separation, the mounted precipitates were counted for radioactivity using low background gas-flow type GM counters for 60 to 90 minutes.

Net sample counting rates were corrected for counting efficiency, decay and chemical recovery yield. From the results, radioactivity concentrations of strontium-90 and cesium-137 in the original samples were obtained.

The radioactivity concentration values were expressed in two significant digits. The errors were derived only from the counting errors.

1 : HOKKAIDO
2 : AOMORI
3 : IWATE
4 : MIYAGI
5 : AKITA
6 : YAMAGATA
7 : FUKUSHIMA
8 : IBARAKI
9 : TOCHIGI
10 : GUNMA
11 : SAITAMA
12 : CHIBA
13 : TOKYO
14 : KANAGAWA
15 : NIIGATA
16 : TOYAMA
17 : ISHIKAWA
18 : FUKUI
19 : YAMANASHI
20 : NAGANO
21 : GIFU
22 : SHIZUOKA
23 : AICHI
24 : MIE
25 : SHIGA
26 : KYOTO
27 : OSAKA
28 : HYOGO
29 : NARA
30 : WAKAYAMA
31 : TOTTORI
32 : SHIMANE
33 : OKAYAMA
34 : HIROSHIMA
35 : YAMAGUCHI
36 : TOKUSHIMA
37 : KAGAWA
38 : EHIME
39 : KOCHI
40 : FUKUOKA
41 : SAGA
42 : NAGASAKI
43 : KUMAMOTO
44 : OITA
45 : MIYAZAKI
46 : KAGOSHIMA
47 : OKINAWA

Figure 1. Sampling Locations in Japan

7. Results

(1) Strontium-90 and Cesium-137 in Rain and dry fallout
(from Apr.2009 to Mar.2010)

Table (1) : Strontium-90 and Cesium-137 in Rain and dry fallout

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Apr.2009								
Sapporo,HOKKAIDO	30	55.0	0.006	±	0.011	0.018	±	0.0090
Aomori,AOMORI	30	101.5	0.025	±	0.016	0.0088	±	0.0094
Morioka,IWATE	30	105.0	0.014	±	0.013	0.011	±	0.0082
Onagawa-machi,MIYAGI	30	139.5	0.038	±	0.014	0.026	±	0.0093
Akita,AKITA	30	114.2	0.016	±	0.013	0.071	±	0.011
Yamagata,YAMAGATA	30	88.5	0.000	±	0.012	0.015	±	0.0081
Okuma-machi,FUKUSHIMA	30	144.0	0.006	±	0.015	0.0000	±	0.0075
Hitachinaka,IBARAKI	30	129.0	0.012	±	0.011	0.038	±	0.011
Utsunomiya,TOCHIGI	30	200.7	0.000	±	0.012	0.0047	±	0.0098
Maebashi,GUNMA	30	93.0	0.009	±	0.012	0.041	±	0.010
Saitama,SAITAMA	30	114.4	0.0000	±	0.0091	0.028	±	0.0066
Ichihara,CHIBA	30	78.2	0.030	±	0.014	0.012	±	0.0092
Chiba,CHIBA	29	98.4	0.011	±	0.012	0.012	±	0.0085
Shinjuku,TOKYO	30	157.4	0.009	±	0.015	0.0000	±	0.0076
Chigasaki,KANAGAWA	30	156.4	0.034	±	0.013	0.0089	±	0.0083
Niigata,NIIGATA	30	73.9	0.009	±	0.014	0.012	±	0.0090
Imizu,TOYAMA	30	96.5	0.020	±	0.014	0.027	±	0.010
Kanazawa,ISHIKAWA	31	117.0	0.035	±	0.016	0.030	±	0.010
Fukui,FUKUI	30	107.0	0.000	±	0.062	0.000	±	0.044
Kofu,YAMANASHI	30	78.0	0.036	±	0.013	0.0000	±	0.0079
Nagano,NAGANO	30	81.5	0.013	±	0.014	0.0000	±	0.0071
Kakamigahara,GIFU	31	179.4	0.032	±	0.015	0.0000	±	0.0090
Shizuoka,SHIZUOKA	30	176.0	0.000	±	0.013	0.012	±	0.0086
Nagoya,AICHI	30	126.6	0.012	±	0.012	0.0000	±	0.0092
Yokkaichi,MIE	30	242.5	0.045	±	0.016	0.015	±	0.0092
Otsu,SHIGA	30	98.9	0.025	±	0.012	0.0000	±	0.0075
Kyoto,KYOTO	35	125.5	0.009	±	0.015	0.096	±	0.013
Osaka,OSAKA	30	95.6	0.049	±	0.014	0.0000	±	0.0079
Kobe,HYOGO	31	71.6	0.006	±	0.011	0.0035	±	0.0085

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Nara,NARA	30	159.9	0.027	±	0.012	0.017	±	0.0084
Wakayama,WAKAYAMA	30	98.0	0.11	±	0.020	0.0000	±	0.0076
Yurihama-machi,TOTTORI	36	113.0	0.001	±	0.014	0.019	±	0.010
Matsue,SHIMANE	30	79.5	0.011	±	0.0095	0.035	±	0.0075
Okayama,OKAYAMA	30	75.9	0.008	±	0.012	0.0000	±	0.0080
Hiroshima,HIROSHIMA	30	91.8	0.024	±	0.013	0.083	±	0.013
Yamaguchi,YAMAGUCHI	30	153.5	0.022	±	0.012	0.018	±	0.0097
Ishii-machi,TOKUSHIMA	30	44.2	0.0000	±	0.0089	0.0000	±	0.0075
Takamatsu,KAGAWA	30	33.0	0.024	±	0.012	0.0036	±	0.0089
Matsuyama,EHIME	30	54.5	0.000	±	0.010	0.0000	±	0.0089
Kochi,KOCHI	30	133.0	0.000	±	0.014	0.0031	±	0.0085
Dazaifu,FUKUOKA	30	100.4	0.009	±	0.014	0.0000	±	0.0073
Saga,SAGA	30	110.1	0.003	±	0.013	0.0000	±	0.0074
Omura,NAGASAKI	30	125.0	0.004	±	0.015	0.0084	±	0.0082
Uto,KUMAMOTO	30	62.7	0.000	±	0.010	0.0099	±	0.0079
Oita,OITA	30	72.5	0.002	±	0.011	0.0019	±	0.0086
Miyazaki,MIYAZAKI	30	148.0	0.010	±	0.013	0.0000	±	0.0067
Kagoshima,KAGOSHIMA	28	138.5	0.009	±	0.011	0.0088	±	0.0089
Uruma,OKINAWA	30	123.0	0.012	±	0.014	0.0000	±	0.0077
May 2009								
Sapporo,HOKKAIDO	31	47.5	0.000	±	0.013	0.039	±	0.010
Aomori,AOMORI	29	44.5	0.042	±	0.016	0.025	±	0.010
Morioka,IWATE	31	40.5	0.016	±	0.013	0.033	±	0.0096
Onagawa-machi,MIYAGI	31	112.0	0.017	±	0.013	0.017	±	0.0090
Akita,AKITA	31	79.4	0.006	±	0.012	0.057	±	0.010
Yamagata,YAMAGATA	31	19.5	0.000	±	0.013	0.0028	±	0.0072
Okuma-machi,FUKUSHIMA	31	52.5	0.015	±	0.015	0.0042	±	0.0083
Hitachinaka,IBARAKI	31	95.0	0.004	±	0.012	0.040	±	0.010
Utsunomiya,TOCHIGI	31	138.1	0.002	±	0.014	0.0000	±	0.0087
Maebashi,GUNMA	31	66.0	0.048	±	0.020	0.055	±	0.012
Saitama,SAITAMA	31	69.8	0.0087	±	0.0080	0.031	±	0.0073
Ichihara,CHIBA	31	164.5	0.018	±	0.014	0.0028	±	0.0089
Chiba,CHIBA	32	146.2	0.007	±	0.012	0.018	±	0.0084
Shinjuku,TOKYO	31	123.8	0.009	±	0.014	0.011	±	0.0090

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Chigasaki,KANAGAWA	32	179.1	0.041	±	0.014	0.025	±	0.0088
Niigata,NIIGATA	31	39.3	0.000	±	0.014	0.029	±	0.011
Imizu,TOYAMA	31	78.7	0.003	±	0.013	0.0030	±	0.0087
Kanazawa,ISHIKAWA	29	57.5	0.010	±	0.015	0.006	±	0.012
Fukui,FUKUI	31	93.0	0.018	±	0.069	0.055	±	0.050
Kofu,YAMANASHI	31	128.0	0.032	±	0.013	0.014	±	0.0086
Nagano,NAGANO	31	51.5	0.024	±	0.012	0.0056	±	0.0078
Kakamigahara,GIFU	31	182.6	0.017	±	0.012	0.026	±	0.011
Shizuoka,SHIZUOKA	31	219.5	0.000	±	0.013	0.0041	±	0.0083
Nagoya,AICHI	31	185.4	0.007	±	0.013	0.0031	±	0.0096
Yokkaichi,MIE	31	155.0	0.005	±	0.012	0.029	±	0.0090
Otsu,SHIGA	28	79.4	0.023	±	0.016	0.021	±	0.010
Kyoto,KYOTO	25	26.0	0.000	±	0.011	0.012	±	0.0082
Osaka,OSAKA	33	78.1	0.014	±	0.012	0.0000	±	0.0088
Kobe,HYOGO	31	63.0	0.005	±	0.013	0.0087	±	0.0087
Nara,NARA	31	124.1	0.009	±	0.012	0.0000	±	0.0067
Wakayama,WAKAYAMA	31	48.0	0.13	±	0.019	0.017	±	0.0092
Yurihama-machi,TOTTORI	25	50.0	0.027	±	0.014	0.0011	±	0.0084
Matsue,SHIMANE	28	41.6	0.033	±	0.011	0.017	±	0.0063
Okayama,OKAYAMA	31	36.4	0.012	±	0.012	0.0081	±	0.0083
Hiroshima,HIROSHIMA	31	59.8	0.030	±	0.013	0.082	±	0.012
Yamaguchi,YAMAGUCHI	31	73.0	0.025	±	0.014	0.0074	±	0.0084
Ishii-machi,TOKUSHIMA	31	64.9	0.014	±	0.012	0.0068	±	0.0080
Takamatsu,KAGAWA	31	53.5	0.012	±	0.012	0.010	±	0.0091
Matsuyama,EHIME	31	37.0	0.025	±	0.013	0.010	±	0.010
Kochi,KOCHI	31	52.9	0.028	±	0.014	0.0006	±	0.0084
Dazaifu,FUKUOKA	31	82.3	0.006	±	0.010	0.017	±	0.0091
Saga,SAGA	31	65.6	0.042	±	0.016	0.0088	±	0.0089
Omura,NAGASAKI	31	133.0	0.020	±	0.016	0.0036	±	0.0079
Uto,KUMAMOTO	31	57.8	0.006	±	0.014	0.0012	±	0.0067
Miyazaki,MIYAZAKI	31	134.0	0.000	±	0.013	0.013	±	0.0091
Kagoshima,KAGOSHIMA	31	46.5	0.000	±	0.011	0.0030	±	0.0081
Uruma,OKINAWA	31	191.0	0.001	±	0.014	0.0039	±	0.0087

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Jun.2009								
Sapporo,HOKKAIDO	30	54.5	0.007	±	0.011	0.0000	±	0.0083
Aomori,AOMORI	32	75.5	0.000	±	0.014	0.0000	±	0.0085
Morioka,IWATE	30	86.0	0.000	±	0.012	0.0093	±	0.0080
Onagawa-machi,MIYAGI	30	188.0	0.000	±	0.012	0.0048	±	0.0080
Akita,AKITA	30	112.0	0.015	±	0.013	0.032	±	0.0086
Yamagata,YAMAGATA	30	85.5	0.009	±	0.014	0.017	±	0.0085
Okuma-machi,FUKUSHIMA	30	121.5	0.003	±	0.011	0.0029	±	0.0079
Hitachinaka,IBARAKI	30	134.0	0.000	±	0.011	0.012	±	0.0080
Utsunomiya,TOCHIGI	30	137.5	0.018	±	0.012	0.025	±	0.010
Saitama,SAITAMA	30	182.4	0.010	±	0.0084	0.046	±	0.0080
Ichihara,CHIBA	30	190.1	0.011	±	0.012	0.012	±	0.0091
Chiba,CHIBA	30	233.4	0.012	±	0.013	0.020	±	0.0089
Shinjuku,TOKYO	30	206.7	0.013	±	0.013	0.0042	±	0.0081
Niigata,NIIGATA	30	73.0	0.010	±	0.016	0.020	±	0.0099
Imizu,TOYAMA	30	135.6	0.022	±	0.016	0.0000	±	0.0067
Kanazawa,ISHIKAWA	32	172.0	0.006	±	0.012	0.0000	±	0.0078
Fukui,FUKUI	30	130.5	0.006	±	0.070	0.000	±	0.045
Kofu,YAMANASHI	30	77.0	0.003	±	0.011	0.0000	±	0.0074
Nagano,NAGANO	30	92.5	0.015	±	0.011	0.018	±	0.0086
Kakamigahara,GIFU	30	251.2	0.000	±	0.011	0.024	±	0.010
Shizuoka,SHIZUOKA	30	255.5	0.000	±	0.011	0.017	±	0.0084
Nagoya,AICHI	30	262.3	0.000	±	0.012	0.0012	±	0.0099
Yokkaichi,MIE	30	275.5	0.000	±	0.010	0.0035	±	0.0087
Otsu,SHIGA	32	152.6	0.000	±	0.012	0.0000	±	0.0085
Kyoto,KYOTO	29	244.0	0.015	±	0.010	0.011	±	0.0096
Osaka,OSAKA	29	118.9	0.016	±	0.012	0.0000	±	0.0073
Kobe,HYOGO	30	116.5	0.003	±	0.013	0.025	±	0.0097
Nara,NARA	30	155.5	0.041	±	0.014	0.0096	±	0.0076
Wakayama,WAKAYAMA	30	159.5	0.15	±	0.020	0.020	±	0.0095
Yurihama-machi,TOTTORI	29	189.0	0.000	±	0.012	0.011	±	0.0082
Matsue,SHIMANE	33	265.2	0.0062	±	0.0082	0.016	±	0.0057
Okayama,OKAYAMA	30	69.7	0.010	±	0.012	0.0094	±	0.0084
Hiroshima,HIROSHIMA	30	260.5	0.000	±	0.011	0.060	±	0.011

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Yamaguchi,YAMAGUCHI	30	234.0	0.000	±	0.010	0.019	±	0.0083
Ishii-machi,TOKUSHIMA	30	114.0	0.003	±	0.012	0.0000	±	0.0074
Takamatsu,KAGAWA	30	71.5	0.003	±	0.012	0.0000	±	0.0078
Matsuyama,EHIME	30	168.5	0.000	±	0.013	0.012	±	0.0088
Kochi,KOCHI	30	259.8	0.022	±	0.013	0.0017	±	0.0076
Dazaifu,FUKUOKA	30	320.7	0.006	±	0.011	0.0017	±	0.0077
Saga,SAGA	30	334.2	0.016	±	0.015	0.0000	±	0.0082
Omura,NAGASAKI	30	242.5	0.009	±	0.015	0.0036	±	0.0079
Uto,KUMAMOTO	30	308.3	0.000	±	0.011	0.014	±	0.0092
Oita,OITA	30	239.0	0.009	±	0.011	0.0000	±	0.0069
Miyazaki,MIYAZAKI	30	195.2	0.000	±	0.010	0.021	±	0.0096
Kagoshima,KAGOSHIMA	31	236.0	0.000	±	0.011	0.026	±	0.0099
Uruma,OKINAWA	30	400.5	0.045	±	0.018	0.0093	±	0.0093
Jul.2009								
Sapporo,HOKKAIDO	33	174.5	0.040	±	0.015	0.0000	±	0.0079
Aomori,AOMORI	31	265.0	0.000	±	0.014	0.0024	±	0.0088
Morioka,IWATE	33	313.2	0.008	±	0.012	0.010	±	0.0087
Onagawa-machi,MIYAGI	34	129.5	0.006	±	0.013	0.0000	±	0.0079
Akita,AKITA	33	357.5	0.007	±	0.013	0.0023	±	0.0088
Yamagata,YAMAGATA	33	211.0	0.007	±	0.011	0.0000	±	0.0073
Okuma-machi,FUKUSHIMA	33	97.0	0.011	±	0.013	0.0065	±	0.0084
Hitachinaka,IBARAKI	33	53.0	0.000	±	0.010	0.0000	±	0.0078
Utsunomiya,TOCHIGI	33	208.8	0.001	±	0.012	0.0000	±	0.0079
Maebashi,GUNMA	33	159.5	0.019	±	0.015	0.0035	±	0.0083
Saitama,SAITAMA	33	147.1	0.030	±	0.010	0.010	±	0.0060
Ichihara,CHIBA	33	89.0	0.027	±	0.013	0.0027	±	0.0085
Chiba,CHIBA	33	82.2	0.034	±	0.015	0.018	±	0.0085
Shinjuku,TOKYO	33	68.7	0.000	±	0.012	0.0052	±	0.0080
Niigata,NIIGATA	33	232.9	0.011	±	0.015	0.0078	±	0.0085
Imizu,TOYAMA	30	371.4	0.016	±	0.015	0.0023	±	0.0076
Kanazawa,ISHIKAWA	31	375.5	0.022	±	0.013	0.0029	±	0.0076
Fukui,FUKUI	33	298.5	0.087	±	0.063	0.000	±	0.039
Kofu,YAMANASHI	33	141.5	0.030	±	0.013	0.0000	±	0.0076
Nagano,NAGANO	33	169.5	0.004	±	0.012	0.016	±	0.0090

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Kakamigahara,GIFU	30	342.2	0.000	±	0.014	0.0012	±	0.0086
Shizuoka,SHIZUOKA	33	455.5	0.000	±	0.011	0.0000	±	0.0078
Nagoya,AICHI	33	365.6	0.017	±	0.013	0.0000	±	0.0080
Yokkaichi,MIE	33	324.0	0.044	±	0.017	0.0029	±	0.0085
Otsu,SHIGA	34	329.4	0.037	±	0.013	0.0000	±	0.0077
Kyoto,KYOTO	35	358.0	0.022	±	0.012	0.0000	±	0.0080
Osaka,OSAKA	30	154.6	0.000	±	0.015	0.0000	±	0.0096
Kobe,HYOGO	33	219.0	0.022	±	0.013	0.0018	±	0.0079
Nara,NARA	33	378.4	0.013	±	0.011	0.0000	±	0.0075
Wakayama,WAKAYAMA	33	152.5	0.079	±	0.016	0.011	±	0.0093
Yurihama-machi,TOTTORI	31	227.5	0.010	±	0.014	0.0000	±	0.0077
Matsue,SHIMANE	33	254.4	0.014	±	0.0091	0.016	±	0.0056
Okayama,OKAYAMA	33	257.4	0.001	±	0.014	0.0000	±	0.0082
Hiroshima,HIROSHIMA	33	533.8	0.023	±	0.015	0.082	±	0.013
Yamaguchi,YAMAGUCHI	31	713.5	0.017	±	0.017	0.11	±	0.013
Ishii-machi,TOKUSHIMA	33	149.6	0.016	±	0.015	0.0000	±	0.0066
Takamatsu,KAGAWA	33	206.5	0.000	±	0.012	0.0000	±	0.0068
Matsuyama,EHIME	33	392.5	0.021	±	0.014	0.0000	±	0.0070
Kochi,KOCHI	30	282.9	0.022	±	0.012	0.0000	±	0.0076
Dazaifu,FUKUOKA	33	738.8	0.011	±	0.013	0.022	±	0.0095
Saga,SAGA	33	463.9	0.018	±	0.011	0.0000	±	0.0083
Omura,NAGASAKI	33	348.5	0.018	±	0.012	0.0012	±	0.0091
Uto,KUMAMOTO	33	602.2	0.020	±	0.015	0.0000	±	0.0085
Oita,OITA	33	274.5	0.028	±	0.013	0.020	±	0.0091
Miyazaki,MIYAZAKI	33	116.3	0.015	±	0.012	0.010	±	0.0088
Kagoshima,KAGOSHIMA	32	134.5	0.000	±	0.012	0.0000	±	0.0077
Aug.2009								
Sapporo,HOKKAIDO	29	64.5	0.003	±	0.011	0.0028	±	0.0082
Aomori,AOMORI	31	104.0	0.018	±	0.015	0.0000	±	0.0082
Morioka,IWATE	29	134.5	0.000	±	0.011	0.0052	±	0.0080
Onagawa-machi,MIYAGI	28	129.5	0.000	±	0.011	0.0000	±	0.0071
Akita,AKITA	29	116.1	0.014	±	0.014	0.0000	±	0.0086
Yamagata,YAMAGATA	29	92.5	0.014	±	0.013	0.0000	±	0.0073
Okuma-machi,FUKUSHIMA	29	179.5	0.015	±	0.012	0.0064	±	0.0078

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Hitachinaka,IBARAKI	29	180.5	0.015	±	0.013	0.0006	±	0.0074
Utsunomiya,TOCHIGI	29	160.1	0.003	±	0.012	0.0000	±	0.0077
Maebashi,GUNMA	29	152.5	0.000	±	0.014	0.0075	±	0.0090
Saitama,SAITAMA	29	145.9	0.012	±	0.0094	0.015	±	0.0062
Ichihara,CHIBA	29	197.7	0.017	±	0.014	0.0000	±	0.0074
Chiba,CHIBA	29	288.2	0.000	±	0.012	0.0029	±	0.0076
Niigata,NIIGATA	29	113.8	0.000	±	0.013	0.0000	±	0.0072
Imizu,TOYAMA	32	165.7	0.004	±	0.014	0.0049	±	0.0081
Kanazawa,ISHIKAWA	31	149.0	0.000	±	0.016	0.0000	±	0.0075
Fukui,FUKUI	29	114.0	0.000	±	0.056	0.000	±	0.041
Kofu,YAMANASHI	29	58.5	0.014	±	0.012	0.0017	±	0.0080
Nagano,NAGANO	29	96.0	0.000	±	0.012	0.0073	±	0.0079
Kakamigahara,GIFU	32	162.2	0.043	±	0.015	0.0057	±	0.0094
Shizuoka,SHIZUOKA	29	123.0	0.005	±	0.013	0.0000	±	0.0073
Nagoya,AICHI	29	78.0	0.010	±	0.013	0.0077	±	0.0089
Yokkaichi,MIE	29	93.0	0.009	±	0.013	0.0000	±	0.0074
Otsu,SHIGA	29	35.0	0.010	±	0.011	0.014	±	0.0086
Kyoto,KYOTO	27	27.0	0.012	±	0.011	0.0000	±	0.0070
Osaka,OSAKA	31	52.3	0.000	±	0.012	0.0006	±	0.0081
Kobe,HYOGO	29	105.1	0.006	±	0.013	0.0000	±	0.0068
Nara,NARA	29	79.6	0.035	±	0.014	0.0000	±	0.0076
Wakayama,WAKAYAMA	29	65.5	0.13	±	0.024	0.0000	±	0.0084
Yurihama-machi,TOTTORI	32	113.0	0.000	±	0.016	0.0000	±	0.0073
Matsue,SHIMANE	29	29.9	0.0048	±	0.0083	0.0026	±	0.0048
Okayama,OKAYAMA	29	134.7	0.000	±	0.012	0.0074	±	0.0077
Hiroshima,HIROSHIMA	29	35.9	0.004	±	0.014	0.0078	±	0.0090
Yamaguchi,YAMAGUCHI	31	127.0	0.055	±	0.017	0.012	±	0.0085
Ishii-machi,TOKUSHIMA	29	631.1	0.057	±	0.017	0.0000	±	0.0079
Takamatsu,KAGAWA	29	118.5	0.000	±	0.014	0.0000	±	0.0086
Matsuyama,EHIME	29	75.5	0.0000	±	0.0097	0.013	±	0.0084
Kochi,KOCHI	32	238.9	0.000	±	0.011	0.0000	±	0.0070
Dazaifu,FUKUOKA	29	94.1	0.016	±	0.012	0.0000	±	0.0068
Saga,SAGA	29	95.5	0.058	±	0.014	0.0000	±	0.0074
Omura,NAGASAKI	29	111.5	0.012	±	0.011	0.0000	±	0.0084

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Uto,KUMAMOTO	29	55.6	0.027	±	0.016	0.0000	±	0.0091
Oita,OITA	30	106.0	0.002	±	0.010	0.0018	±	0.0076
Miyazaki,MIYAZAKI	29	262.8	0.004	±	0.012	0.0000	±	0.0074
Kagoshima,KAGOSHIMA	31	23.0	0.020	±	0.011	0.018	±	0.0097
Uruma,OKINAWA	29	60.5	0.000	±	0.014	0.0000	±	0.0084
Sep.2009								
Sapporo,HOKKAIDO	30	28.0	0.017	±	0.013	0.0028	±	0.0087
Aomori,AOMORI	30	103.0	0.000	±	0.012	0.0030	±	0.0081
Morioka,IWATE	30	48.9	0.000	±	0.011	0.0000	±	0.0082
Onagawa-machi,MIYAGI	30	13.0	0.000	±	0.013	0.0000	±	0.0075
Akita,AKITA	30	84.5	0.010	±	0.012	0.0000	±	0.0070
Yamagata,YAMAGATA	30	29.0	0.037	±	0.016	0.0057	±	0.0084
Okuma-machi,FUKUSHIMA	30	78.0	0.009	±	0.011	0.0000	±	0.0065
Hitachinaka,IBARAKI	30	7.0	0.018	±	0.013	0.0012	±	0.0077
Utsunomiya,TOCHIGI	30	26.9	0.003	±	0.011	0.0006	±	0.0079
Maebashi,GUNMA	30	20.5	0.011	±	0.013	0.0000	±	0.0078
Saitama,SAITAMA	30	18.4	0.0008	±	0.0080	0.0061	±	0.0059
Ichihara,CHIBA	30	49.2	0.011	±	0.018	0.0078	±	0.0089
Chiba,CHIBA	30	54.4	0.001	±	0.012	0.0053	±	0.0082
Shinjuku,TOKYO	30	31.7	0.000	±	0.013	0.0000	±	0.0072
Niigata,NIIGATA	30	71.2	0.026	±	0.015	0.0018	±	0.0087
Imizu,TOYAMA	30	144.5	0.008	±	0.012	0.0096	±	0.0080
Kanazawa,ISHIKAWA	30	89.5	0.002	±	0.011	0.0000	±	0.0071
Fukui,FUKUI	30	72.0	0.036	±	0.064	0.000	±	0.039
Kofu,YAMANASHI	30	43.0	0.009	±	0.012	0.0000	±	0.0069
Nagano,NAGANO	30	33.0	0.010	±	0.011	0.0056	±	0.0079
Kakamigahara,GIFU	30	94.9	0.039	±	0.013	0.0000	±	0.0072
Shizuoka,SHIZUOKA	30	87.0	0.000	±	0.012	0.0000	±	0.0070
Nagoya,AICHI	31	57.0	0.015	±	0.013	0.010	±	0.0090
Yokkaichi,MIE	30	33.5	0.026	±	0.014	0.0000	±	0.0071
Otsu,SHIGA	30	38.8	0.008	±	0.015	0.0047	±	0.0082
Kyoto,KYOTO	30	49.5	0.023	±	0.012	0.0000	±	0.0084
Osaka,OSAKA	31	59.3	0.000	±	0.011	0.0000	±	0.0080
Kobe,HYOGO	30	24.1	0.0000	±	0.0099	0.0000	±	0.0073

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Nara,NARA	30	51.3	0.004	±	0.013	0.0000	±	0.0071
Wakayama,WAKAYAMA	30	58.5	0.22	±	0.027	0.0000	±	0.0087
Yurihama-machi,TOTTORI	30	107.5	0.000	±	0.013	0.0000	±	0.0076
Matsue,SHIMANE	30	73.9	0.0065	±	0.0077	0.0026	±	0.0050
Okayama,OKAYAMA	30	53.8	0.019	±	0.014	0.0025	±	0.0073
Hiroshima,HIROSHIMA	30	41.3	0.021	±	0.015	0.050	±	0.012
Yamaguchi,YAMAGUCHI	30	31.5	0.000	±	0.012	0.012	±	0.0089
Ishii-machi,TOKUSHIMA	30	74.0	0.028	±	0.015	0.0038	±	0.0073
Takamatsu,KAGAWA	30	25.0	0.000	±	0.012	0.0000	±	0.0079
Kochi,KOCHI	30	95.4	0.005	±	0.012	0.0000	±	0.0062
Dazaifu,FUKUOKA	30	52.9	0.034	±	0.016	0.0000	±	0.0066
Saga,SAGA	30	37.8	0.060	±	0.014	0.0000	±	0.0083
Omura,NAGASAKI	30	58.0	0.017	±	0.012	0.0000	±	0.0082
Uto,KUMAMOTO	30	56.1	0.021	±	0.012	0.0000	±	0.0087
Oita,OITA	29	44.5	0.025	±	0.013	0.0012	±	0.0071
Miyazaki,MIYAZAKI	30	203.0	0.002	±	0.011	0.0000	±	0.0064
Kagoshima,KAGOSHIMA	30	15.5	0.024	±	0.012	0.0000	±	0.0078
Uruma,OKINAWA	30	49.5	0.000	±	0.014	0.0050	±	0.0083
Oct.2009								
Sapporo,HOKKAIDO	32	153.0	0.025	±	0.013	0.0075	±	0.0091
Aomori,AOMORI	30	163.5	0.000	±	0.013	0.0018	±	0.0081
Morioka,IWATE	32	123.7	0.000	±	0.013	0.013	±	0.0094
Onagawa-machi,MIYAGI	32	274.0	0.000	±	0.013	0.0000	±	0.0074
Akita,AKITA	32	249.6	0.032	±	0.015	0.031	±	0.0095
Yamagata,YAMAGATA	32	106.5	0.023	±	0.014	0.0000	±	0.0074
Okuma-machi,FUKUSHIMA	32	328.5	0.009	±	0.013	0.0017	±	0.0074
Hitachinaka,IBARAKI	32	258.0	0.018	±	0.013	0.017	±	0.0095
Utsunomiya,TOCHIGI	32	193.2	0.001	±	0.014	0.0000	±	0.0080
Maebashi,GUNMA	32	136.5	0.000	±	0.012	0.0000	±	0.0077
Saitama,SAITAMA	32	254.7	0.0000	±	0.0071	0.0000	±	0.0056
Ichihara,CHIBA	32	262.3	0.035	±	0.015	0.0040	±	0.0095
Chiba,CHIBA	32	269.1	0.002	±	0.011	0.0000	±	0.0078
Shinjuku,TOKYO	32	257.0	0.000	±	0.011	0.0000	±	0.0078
Niigata,NIIGATA	32	174.9	0.010	±	0.011	0.0079	±	0.0083

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Imizu,TOYAMA	32	187.7	0.017	±	0.012	0.0029	±	0.0076
Kanazawa,ISHIKAWA	30	176.0	0.014	±	0.013	0.0028	±	0.0077
Fukui,FUKUI	32	153.5	0.17	±	0.069	0.000	±	0.035
Kofu,YAMANASHI	32	135.0	0.015	±	0.011	0.0000	±	0.0082
Nagano,NAGANO	32	124.0	0.000	±	0.010	0.0000	±	0.0077
Kakamigahara,GIFU	32	165.4	0.043	±	0.014	0.0054	±	0.0084
Shizuoka,SHIZUOKA	32	216.5	0.009	±	0.012	0.0000	±	0.0076
Nagoya,AICHI	31	223.5	0.001	±	0.011	0.0018	±	0.0087
Yokkaichi,MIE	32	253.5	0.0000	±	0.0099	0.0000	±	0.0071
Otsu,SHIGA	32	148.4	0.006	±	0.014	0.0000	±	0.0072
Kyoto,KYOTO	35	139.5	0.015	±	0.012	0.0000	±	0.0084
Osaka,OSAKA	32	135.4	0.000	±	0.012	0.0006	±	0.0078
Kobe,HYOGO	32	101.1	0.022	±	0.015	0.0006	±	0.0081
Nara,NARA	32	286.2	0.0000	±	0.0098	0.0000	±	0.0073
Wakayama,WAKAYAMA	34	224.0	0.17	±	0.025	0.0079	±	0.0086
Yurihama-machi,TOTTORI	32	179.0	0.036	±	0.014	0.0088	±	0.0083
Matsue,SHIMANE	32	120.5	0.0096	±	0.0080	0.011	±	0.0055
Okayama,OKAYAMA	32	80.1	0.001	±	0.013	0.0072	±	0.0075
Hiroshima,HIROSHIMA	32	75.7	0.022	±	0.013	0.043	±	0.011
Yamaguchi,YAMAGUCHI	31	67.5	0.065	±	0.017	0.0000	±	0.0081
Ishii-machi,TOKUSHIMA	32	174.3	0.022	±	0.015	0.0024	±	0.0067
Takamatsu,KAGAWA	32	103.0	0.005	±	0.012	0.0088	±	0.0090
Matsuyama,EHIME	32	97.5	0.018	±	0.012	0.0082	±	0.0077
Kochi,KOCHI	29	149.7	0.007	±	0.011	0.0006	±	0.0077
Dazaifu,FUKUOKA	32	162.3	0.000	±	0.014	0.0030	±	0.0077
Saga,SAGA	32	12.0	0.022	±	0.012	0.0000	±	0.0081
Omura,NAGASAKI	32	166.5	0.007	±	0.012	0.0024	±	0.0081
Uto,KUMAMOTO	32	155.5	0.039	±	0.014	0.010	±	0.010
Oita,OITA	32	150.5	0.007	±	0.013	0.031	±	0.0098
Miyazaki,MIYAZAKI	32	194.3	0.011	±	0.012	0.0000	±	0.0071
Kagoshima,KAGOSHIMA	30	62.0	0.010	±	0.011	0.015	±	0.0092
Uruma,OKINAWA	32	299.5	0.000	±	0.013	0.0074	±	0.0084

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Nov.2009								
Sapporo,HOKKAIDO	29	101.5	0.009	±	0.012	0.0065	±	0.0085
Aomori,AOMORI	31	93.5	0.020	±	0.014	0.0095	±	0.0086
Morioka,IWATE	29	112.8	0.009	±	0.013	0.0000	±	0.0075
Onagawa-machi,MIYAGI	29	109.5	0.000	±	0.013	0.0000	±	0.0075
Akita,AKITA	29	180.6	0.001	±	0.014	0.0018	±	0.0080
Yamagata,YAMAGATA	29	92.5	0.014	±	0.012	0.0000	±	0.0073
Okuma-machi,FUKUSHIMA	29	188.0	0.019	±	0.011	0.0000	±	0.0075
Hitachinaka,IBARAKI	29	156.0	0.009	±	0.013	0.0000	±	0.0070
Utsunomiya,TOCHIGI	29	122.8	0.000	±	0.014	0.0000	±	0.0085
Maebashi,GUNMA	29	71.0	0.027	±	0.016	0.0000	±	0.0075
Saitama,SAITAMA	29	92.6	0.0077	±	0.0082	0.0000	±	0.0060
Ichihara,CHIBA	29	142.3	0.000	±	0.013	0.0053	±	0.0094
Chiba,CHIBA	29	146.1	0.002	±	0.011	0.0012	±	0.0081
Shinjuku,TOKYO	29	144.1	0.006	±	0.013	0.0000	±	0.0070
Chigasaki,KANAGAWA	32	184.7	0.001	±	0.011	0.0000	±	0.0075
Niigata,NIIGATA	29	134.0	0.000	±	0.014	0.0000	±	0.0081
Imizu,TOYAMA	29	260.2	0.009	±	0.013	0.0076	±	0.0081
Kanazawa,ISHIKAWA	31	236.0	0.000	±	0.011	0.011	±	0.0085
Fukui,FUKUI	29	141.0	0.10	±	0.065	0.000	±	0.040
Kofu,YAMANASHI	30	98.0	0.009	±	0.011	0.0000	±	0.0081
Nagano,NAGANO	11	7.5	0.016	±	0.012	0.0000	±	0.0076
Kakamigahara,GIFU	29	143.5	0.000	±	0.015	0.0000	±	0.0080
Shizuoka,SHIZUOKA	29	168.0	0.026	±	0.015	0.0000	±	0.0074
Nagoya,AICHI	29	157.4	0.000	±	0.012	0.0000	±	0.0078
Yokkaichi,MIE	29	166.5	0.000	±	0.011	0.0040	±	0.0073
Otsu,SHIGA	29	128.8	0.022	±	0.015	0.0035	±	0.0067
Kyoto,KYOTO	29	126.5	0.001	±	0.011	0.0000	±	0.0081
Osaka,OSAKA	28	108.6	0.000	±	0.014	0.0000	±	0.0082
Kobe,HYOGO	29	152.3	0.000	±	0.010	0.0000	±	0.0078
Nara,NARA	29	166.5	0.010	±	0.012	0.0000	±	0.0075
Yurihama-machi,TOTTORI	28	284.5	0.000	±	0.014	0.0000	±	0.0067
Matsue,SHIMANE	29	54.5	0.0015	±	0.0082	0.013	±	0.0064
Okayama,OKAYAMA	29	128.6	0.015	±	0.012	0.0000	±	0.0077

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Hiroshima,HIROSHIMA	29	147.7	0.029	±	0.014	0.032	±	0.010
Yamaguchi,YAMAGUCHI	30	188.0	0.072	±	0.019	0.0055	±	0.0094
Ishii-machi,TOKUSHIMA	29	222.1	0.055	±	0.020	0.0035	±	0.0067
Takamatsu,KAGAWA	29	93.5	0.016	±	0.012	0.0000	±	0.0067
Matsuyama,EHIME	29	102.5	0.026	±	0.012	0.0000	±	0.0071
Kochi,KOCHI	32	349.6	0.015	±	0.014	0.0059	±	0.0086
Dazaifu,FUKUOKA	29	146.1	0.010	±	0.012	0.0000	±	0.0074
Saga,SAGA	29	4.3	0.0041	±	0.0097	0.0000	±	0.0074
Omura,NAGASAKI	29	93.0	0.027	±	0.014	0.0000	±	0.0072
Uto,KUMAMOTO	29	100.1	0.010	±	0.014	0.0018	±	0.0078
Oita,OITA	29	121.5	0.012	±	0.013	0.0000	±	0.0072
Miyazaki,MIYAZAKI	29	445.6	0.000	±	0.013	0.0000	±	0.0078
Kagoshima,KAGOSHIMA	31	181.5	0.0020	±	0.0099	0.0049	±	0.0091
Uruma,OKINAWA	29	119.0	0.038	±	0.015	0.0000	±	0.0070
Dec.2009								
Sapporo,HOKKAIDO	34	104.5	0.027	±	0.013	0.0000	±	0.0074
Aomori,AOMORI	28	90.0	0.025	±	0.015	0.0031	±	0.0085
Morioka,IWATE	34	75.1	0.000	±	0.015	0.0000	±	0.0079
Onagawa-machi,MIYAGI	34	51.0	0.007	±	0.012	0.0077	±	0.0089
Akita,AKITA	34	143.4	0.025	±	0.013	0.0000	±	0.0080
Yamagata,YAMAGATA	34	90.0	0.018	±	0.012	0.0006	±	0.0076
Okuma-machi,FUKUSHIMA	34	58.5	0.015	±	0.011	0.0058	±	0.0089
Hitachinaka,IBARAKI	34	81.0	0.000	±	0.010	0.0000	±	0.0081
Utsunomiya,TOCHIGI	34	47.2	0.000	±	0.013	0.0000	±	0.0079
Maebashi,GUNMA	34	36.5	0.000	±	0.014	0.0067	±	0.0085
Saitama,SAITAMA	34	60.4	0.016	±	0.0091	0.0043	±	0.0064
Ichihara,CHIBA	34	104.9	0.002	±	0.010	0.010	±	0.011
Chiba,CHIBA	34	92.0	0.000	±	0.010	0.014	±	0.0087
Shinjuku,TOKYO	34	74.7	0.000	±	0.011	0.0035	±	0.0083
Chigasaki,KANAGAWA	27	77.8	0.000	±	0.011	0.015	±	0.0081
Niigata,NIIGATA	34	300.8	0.034	±	0.013	0.020	±	0.0093
Imizu,TOYAMA	27	251.7	0.042	±	0.015	0.030	±	0.0098
Kanazawa,ISHIKAWA	28	278.0	0.000	±	0.011	0.0028	±	0.0079
Fukui,FUKUI	34	385.0	0.088	±	0.062	0.009	±	0.043

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Kofu,YAMANASHI	33	40.5	0.020	±	0.012	0.0000	±	0.0075
Nagano,NAGANO	34	76.5	0.019	±	0.014	0.0000	±	0.0082
Kakamigahara,GIFU	35	92.0	0.006	±	0.012	0.0000	±	0.0073
Shizuoka,SHIZUOKA	34	65.0	0.028	±	0.014	0.0088	±	0.0085
Nagoya,AICHI	34	68.2	0.000	±	0.013	0.0000	±	0.0079
Yokkaichi,MIE	34	72.5	0.006	±	0.012	0.0078	±	0.0082
Otsu,SHIGA	34	41.8	0.000	±	0.012	0.0000	±	0.0069
Kyoto,KYOTO	32	38.5	0.000	±	0.011	0.0000	±	0.0084
Osaka,OSAKA	28	46.6	0.004	±	0.012	0.0000	±	0.0075
Kobe,HYOGO	34	29.0	0.002	±	0.012	0.0087	±	0.0081
Nara,NARA	34	72.4	0.000	±	0.011	0.0000	±	0.0077
Wakayama,WAKAYAMA	36	59.5	0.063	±	0.018	0.013	±	0.0090
Yurihama-machi,TOTTORI	35	130.5	0.006	±	0.012	0.041	±	0.010
Matsue,SHIMANE	27	89.3	0.0093	±	0.0078	0.014	±	0.0059
Okayama,OKAYAMA	34	27.6	0.023	±	0.013	0.0000	±	0.0082
Hiroshima,HIROSHIMA	35	39.0	0.055	±	0.015	0.023	±	0.010
Yamaguchi,YAMAGUCHI	34	77.0	0.033	±	0.016	0.010	±	0.0084
Ishii-machi,TOKUSHIMA	34	50.2	0.009	±	0.010	0.0000	±	0.0072
Takamatsu,KAGAWA	34	17.0	0.024	±	0.012	0.0035	±	0.0084
Matsuyama,EHIME	34	31.5	0.024	±	0.012	0.0000	±	0.0069
Kochi,KOCHI	34	48.9	0.031	±	0.014	0.014	±	0.0088
Dazaifu,FUKUOKA	34	44.9	0.006	±	0.012	0.0066	±	0.0084
Saga,SAGA	34	9.0	0.0000	±	0.0098	0.0000	±	0.0080
Omura,NAGASAKI	34	57.5	0.000	±	0.011	0.0041	±	0.0087
Uto,KUMAMOTO	34	88.6	0.012	±	0.013	0.0000	±	0.0076
Oita,OITA	34	29.0	0.000	±	0.012	0.0059	±	0.0075
Miyazaki,MIYAZAKI	34	48.6	0.015	±	0.014	0.0000	±	0.0064
Kagoshima,KAGOSHIMA	28	31.0	0.0000	±	0.0097	0.0000	±	0.0091
Uruma,OKINAWA	34	191.0	0.000	±	0.014	0.0052	±	0.0076
Jan.2010								
Sapporo,HOKKAIDO	28	43.5	0.000	±	0.011	0.012	±	0.0090
Aomori,AOMORI	32	156.0	0.000	±	0.014	0.040	±	0.011
Morioka,IWATE	28	76.8	0.013	±	0.012	0.023	±	0.0089
Onagawa-machi,MIYAGI	28	10.0	0.028	±	0.014	0.0077	±	0.0088

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Akita,AKITA	28	172.4	0.000	±	0.013	0.0030	±	0.0088
Yamagata,YAMAGATA	28	43.0	0.011	±	0.012	0.025	±	0.0091
Okuma-machi,FUKUSHIMA	28	2.0	0.037	±	0.013	0.048	±	0.011
Hitachinaka,IBARAKI	28	7.5	0.009	±	0.013	0.0006	±	0.0082
Utsunomiya,TOCHIGI	28	1.4	0.000	±	0.013	0.015	±	0.0087
Maebashi,GUNMA	28	0.0	0.019	±	0.011	0.033	±	0.011
Saitama,SAITAMA	28	7.6	0.0095	±	0.0086	0.0068	±	0.0065
Ichihara,CHIBA	28	18.1	0.000	±	0.014	0.0000	±	0.0086
Chiba,CHIBA	28	15.3	0.011	±	0.012	0.0093	±	0.0087
Shinjuku,TOKYO	28	10.7	0.029	±	0.014	0.0088	±	0.0083
Chigasaki,KANAGAWA	35	17.3	0.007	±	0.011	0.019	±	0.0084
Niigata,NIIGATA	28	158.4	0.034	±	0.014	0.017	±	0.0090
Imizu,TOYAMA	35	348.9	0.032	±	0.017	0.028	±	0.011
Kanazawa,ISHIKAWA	32	407.0	0.020	±	0.013	0.10	±	0.013
Fukui,FUKUI	28	263.0	0.084	±	0.076	0.000	±	0.042
Kofu,YAMANASHI	28	10.5	0.014	±	0.011	0.0098	±	0.0093
Nagano,NAGANO	28	22.0	0.001	±	0.012	0.0024	±	0.0089
Kakamigahara,GIFU	27	38.4	0.026	±	0.012	0.0000	±	0.0081
Shizuoka,SHIZUOKA	28	45.0	0.005	±	0.013	0.0012	±	0.0086
Nagoya,AICHI	28	8.9	0.039	±	0.017	0.0043	±	0.0091
Yokkaichi,MIE	28	14.5	0.000	±	0.013	0.0055	±	0.0084
Otsu,SHIGA	28	40.5	0.000	±	0.011	0.0000	±	0.0084
Kyoto,KYOTO	28	56.0	0.000	±	0.012	0.0000	±	0.0074
Osaka,OSAKA	35	46.0	0.000	±	0.011	0.024	±	0.0090
Kobe,HYOGO	28	32.8	0.000	±	0.013	0.0018	±	0.0080
Nara,NARA	28	61.7	0.014	±	0.0094	0.0061	±	0.0087
Wakayama,WAKAYAMA	26	38.0	0.086	±	0.017	0.014	±	0.0091
Yurihama-machi,TOTTORI	28	110.0	0.006	±	0.013	0.019	±	0.0093
Matsue,SHIMANE	35	122.2	0.014	±	0.0088	0.034	±	0.0080
Okayama,OKAYAMA	28	14.9	0.001	±	0.013	0.019	±	0.0086
Hiroshima,HIROSHIMA	27	22.0	0.027	±	0.013	0.035	±	0.010
Yamaguchi,YAMAGUCHI	28	42.5	0.000	±	0.014	0.0078	±	0.0086
Ishii-machi,TOKUSHIMA	28	18.8	0.011	±	0.013	0.0068	±	0.0090
Takamatsu,KAGAWA	28	14.5	0.012	±	0.013	0.0054	±	0.0078

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Matsuyama,EHIME	28	50.0	0.008	±	0.011	0.0052	±	0.0083
Kochi,KOCHI	29	54.4	0.001	±	0.015	0.0042	±	0.0084
Dazaifu,FUKUOKA	28	62.2	0.000	±	0.012	0.015	±	0.0086
Omura,NAGASAKI	28	81.5	0.015	±	0.013	0.0000	±	0.0082
Uto,KUMAMOTO	28	81.1	0.000	±	0.012	0.0000	±	0.0079
Oita,OITA	29	46.0	0.000	±	0.016	0.0014	±	0.0084
Miyazaki,MIYAZAKI	28	23.8	0.000	±	0.012	0.0065	±	0.0085
Kagoshima,KAGOSHIMA	32	68.0	0.000	±	0.010	0.0047	±	0.0083
Uruma,OKINAWA	28	65.0	0.005	±	0.013	0.0000	±	0.0077
Feb.2010								
Sapporo,HOKKAIDO	28	30.0	0.014	±	0.013	0.011	±	0.0095
Aomori,AOMORI	28	67.0	0.000	±	0.015	0.026	±	0.0099
Morioka,IWATE	28	20.9	0.000	±	0.012	0.0097	±	0.0079
Onagawa-machi,MIYAGI	28	36.5	0.023	±	0.014	0.0000	±	0.0077
Akita,AKITA	28	100.0	0.000	±	0.012	0.0000	±	0.0073
Yamagata,YAMAGATA	28	46.5	0.0057	±	0.0096	0.0093	±	0.0090
Okuma-machi,FUKUSHIMA	28	56.0	0.002	±	0.011	0.0037	±	0.0084
Hitachinaka,IBARAKI	28	93.0	0.014	±	0.013	0.019	±	0.0084
Utsunomiya,TOCHIGI	28	67.8	0.000	±	0.013	0.0075	±	0.0077
Maebashi,GUNMA	28	54.5	0.0000	±	0.0097	0.029	±	0.010
Saitama,SAITAMA	28	91.8	0.0063	±	0.0080	0.031	±	0.0071
Ichihara,CHIBA	28	118.9	0.000	±	0.012	0.020	±	0.011
Chiba,CHIBA	28	125.4	0.031	±	0.016	0.0091	±	0.0085
Shinjuku,TOKYO	28	104.2	0.007	±	0.013	0.012	±	0.0084
Chigasaki,KANAGAWA	28	141.1	0.000	±	0.010	0.017	±	0.0080
Niigata,NIIGATA	28	181.7	0.018	±	0.013	0.0058	±	0.0082
Imizu,TOYAMA	28	303.9	0.032	±	0.014	0.0017	±	0.0086
Kanazawa,ISHIKAWA	28	152.5	0.002	±	0.011	0.017	±	0.0088
Fukui,FUKUI	28	215.5	0.083	±	0.075	0.000	±	0.040
Kofu,YAMANASHI	28	70.0	0.024	±	0.012	0.013	±	0.0093
Nagano,NAGANO	28	89.0	0.027	±	0.014	0.0059	±	0.0090
Kakamigahara,GIFU	29	184.2	0.016	±	0.011	0.0000	±	0.0077
Shizuoka,SHIZUOKA	28	232.5	0.000	±	0.010	0.0083	±	0.0083
Nagoya,AICHI	28	143.5	0.010	±	0.013	0.0000	±	0.0082

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Yokkaichi,MIE	28	131.0	0.010	±	0.012	0.0072	±	0.0083
Otsu,SHIGA	28	128.2	0.000	±	0.012	0.0000	±	0.0071
Kyoto,KYOTO	29	125.0	0.008	±	0.012	0.0000	±	0.0080
Osaka,OSAKA	28	129.9	0.047	±	0.013	0.0080	±	0.0075
Kobe,HYOGO	28	55.9	0.021	±	0.013	0.0024	±	0.0080
Nara,NARA	28	172.9	0.034	±	0.012	0.0000	±	0.0082
Wakayama,WAKAYAMA	28	104.5	0.10	±	0.018	0.0062	±	0.0091
Yurihama-machi,TOTTORI	28	131.5	0.000	±	0.012	0.0056	±	0.0080
Matsue,SHIMANE	28	130.3	0.0041	±	0.0074	0.019	±	0.0060
Okayama,OKAYAMA	28	83.1	0.000	±	0.013	0.012	±	0.0079
Hiroshima,HIROSHIMA	28	113.3	0.000	±	0.011	0.0063	±	0.0092
Yamaguchi,YAMAGUCHI	28	110.6	0.000	±	0.012	0.0000	±	0.0082
Ishii-machi,TOKUSHIMA	28	60.1	0.000	±	0.012	0.0000	±	0.0079
Takamatsu,KAGAWA	28	73.0	0.0000	±	0.0098	0.0000	±	0.0072
Matsuyama,EHIME	28	97.5	0.008	±	0.011	0.0000	±	0.0072
Kochi,KOCHI	27	160.9	0.023	±	0.016	0.0086	±	0.0086
Dazaifu,FUKUOKA	28	75.5	0.013	±	0.014	0.0035	±	0.0077
Saga,SAGA	28	8.0	0.000	±	0.011	0.0000	±	0.0081
Omura,NAGASAKI	28	119.0	0.019	±	0.014	0.0065	±	0.0076
Uto,KUMAMOTO	28	155.2	0.000	±	0.013	0.0000	±	0.0085
Oita,OITA	27	83.0	0.003	±	0.015	0.0095	±	0.0078
Miyazaki,MIYAZAKI	28	166.6	0.002	±	0.013	0.0019	±	0.0088
Kagoshima,KAGOSHIMA	28	144.0	0.003	±	0.011	0.0000	±	0.0088
Uruma,OKINAWA	28	243.5	0.000	±	0.011	0.0000	±	0.0082
Mar.2010								
Sapporo,HOKKAIDO	31	47.0	0.007	±	0.012	0.029	±	0.0099
Aomori,AOMORI	33	97.5	0.032	±	0.018	0.14	±	0.016
Morioka,IWATE	31	102.4	0.002	±	0.013	0.13	±	0.015
Onagawa-machi,MIYAGI	32	96.0	0.024	±	0.014	0.015	±	0.0090
Akita,AKITA	31	134.1	0.047	±	0.016	0.24	±	0.018
Yamagata,YAMAGATA	31	69.5	0.004	±	0.012	0.034	±	0.0099
Okuma-machi,FUKUSHIMA	31	101.5	0.032	±	0.014	0.044	±	0.011
Hitachinaka,IBARAKI	31	107.5	0.029	±	0.012	0.035	±	0.011
Utsunomiya,TOCHIGI	31	127.5	0.000	±	0.014	0.025	±	0.0094

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Maebashi,GUNMA	31	117.5	0.014	±	0.013	0.045	±	0.016
Saitama,SAITAMA	31	129.2	0.0016	±	0.0097	0.036	±	0.0076
Ichihara,CHIBA	31	178.9	0.005	±	0.013	0.027	±	0.010
Chiba,CHIBA	31	161.0	0.009	±	0.013	0.012	±	0.0085
Shinjuku,TOKYO	31	143.0	0.026	±	0.015	0.014	±	0.0083
Chigasaki,KANAGAWA	31	269.4	0.021	±	0.014	0.018	±	0.0095
Niigata,NIIGATA	31	143.0	0.011	±	0.012	0.077	±	0.013
Imizu,TOYAMA	31	210.5	0.068	±	0.017	0.25	±	0.019
Kanazawa,ISHIKAWA	33	195.5	0.12	±	0.020	0.50	±	0.025
Fukui,FUKUI	31	219.0	0.18	±	0.071	0.49	±	0.068
Kofu,YAMANASHI	31	149.0	0.012	±	0.014	0.030	±	0.0090
Nagano,NAGANO	31	74.5	0.019	±	0.016	0.043	±	0.010
Kakamigahara,GIFU	29	199.1	0.000	±	0.011	0.0062	±	0.0081
Shizuoka,SHIZUOKA	31	391.0	0.023	±	0.013	0.019	±	0.0091
Nagoya,AICHI	31	204.7	0.047	±	0.015	0.012	±	0.0091
Yokkaichi,MIE	31	171.0	0.023	±	0.011	0.061	±	0.013
Otsu,SHIGA	31	170.4	0.011	±	0.014	0.072	±	0.013
Kyoto,KYOTO	29	150.5	0.020	±	0.012	0.070	±	0.012
Osaka,OSAKA	30	143.2	0.008	±	0.013	0.024	±	0.0091
Kobe,HYOGO	31	231.8	0.013	±	0.014	0.030	±	0.0097
Nara,NARA	31	222.7	0.034	±	0.012	0.023	±	0.0095
Wakayama,WAKAYAMA	31	180.5	0.10	±	0.018	0.045	±	0.011
Yurihama-machi,TOTTORI	30	176.5	0.064	±	0.016	0.19	±	0.017
Matsue,SHIMANE	31	228.5	0.057	±	0.010	0.22	±	0.013
Okayama,OKAYAMA	31	147.1	0.010	±	0.013	0.036	±	0.0094
Hiroshima,HIROSHIMA	31	191.5	0.014	±	0.013	0.023	±	0.010
Yamaguchi,YAMAGUCHI	31	228.4	0.0000	±	0.0094	0.057	±	0.012
Ishii-machi,TOKUSHIMA	31	137.9	0.000	±	0.011	0.032	±	0.010
Takamatsu,KAGAWA	31	128.5	0.009	±	0.012	0.032	±	0.010
Matsuyama,EHIME	31	198.5	0.022	±	0.012	0.020	±	0.0093
Kochi,KOCHI	32	323.8	0.012	±	0.011	0.040	±	0.010
Dazaifu,FUKUOKA	31	192.8	0.012	±	0.014	0.042	±	0.010
Saga,SAGA	31	10.1	0.032	±	0.015	0.051	±	0.012
Omura,NAGASAKI	31	160.5	0.038	±	0.016	0.074	±	0.012

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Uto,KUMAMOTO	31	196.4	0.035	±	0.012	0.032	±	0.011
Oita,OITA	31	157.5	0.023	±	0.016	0.034	±	0.0096
Miyazaki,MIYAZAKI	31	310.5	0.017	±	0.013	0.073	±	0.012
Kagoshima,KAGOSHIMA	33	192.5	0.007	±	0.011	0.10	±	0.015
Uruma,OKINAWA	31	37.0	0.013	±	0.013	0.0030	±	0.0090

(2) Strontium-90 and Cesium-137 in Airborne dust
(from May 2009 to Mar.2010)

Table (2) : Strontium-90 and Cesium-137 in Airborne dust

Location	Sampling Period			Absorption (m^3)	Sr-90 (mBq/m^3)			Cs-137 (mBq/m^3)		
Apr.2009～Jun.2009										
Morioka,IWATE	04	-	06	10368.0	0.00000	±	0.00066	0.00002	±	0.00034
Akita,AKITA	04	-	06	10440.0	0.00000	±	0.00057	0.00016	±	0.00035
Yamagata,YAMAGATA	04	-	06	12960.0	0.00054	±	0.00044	0.00024	±	0.00028
Okuma-machi,FUKUSHIMA	04	-	06	10000.0	0.00078	±	0.00064	0.00000	±	0.00028
Hitachinaka,IBARAKI	04	-	06	13380.1	0.00008	±	0.00043	0.00003	±	0.00023
Utsunomiya,TOCHIGI	04	-	06	14694.0	0.00066	±	0.00043	0.00000	±	0.00022
Maebashi,GUNMA	04	-	06	9906.4	0.00043	±	0.00061	0.00014	±	0.00032
Saitama,SAITAMA	04	-	06	12940.5	0.00060	±	0.00043	0.00026	±	0.00024
Ichihara,CHIBA	04	-	06	9831.6	0.00000	±	0.00060	0.00057	±	0.00031
Chigasaki,KANAGAWA	04	-	06	12095.2	0.00089	±	0.00053	0.00000	±	0.00024
Niigata,NIIGATA	04	-	06	9936.0	0.00000	±	0.00063	0.00000	±	0.00034
Imizu,TOYAMA	04	-	06	18080.4	0.00083	±	0.00037	0.00013	±	0.00018
Fukui,FUKUI	04	-	06	12959.1	0.00081	±	0.00044	0.00000	±	0.00021
Kofu,YAMANASHI	04	-	06	10367.1	0.0014	±	0.00065	0.00018	±	0.00032
Nagano,NAGANO	04	-	06	11172.0	0.00000	±	0.00057	0.00000	±	0.00029
Kakamigahara,GIFU	04	-	06	11983.2	0.00010	±	0.00060	0.00010	±	0.00029
Nagoya,AICHI	04	-	06	10366.5	0.00049	±	0.00054	0.00000	±	0.00029
Yokkaichi,MIE	04	-	06	12934.2	0.00051	±	0.00047	0.00000	±	0.00026
Otsu,SHIGA	04	-	06	10050.9	0.00005	±	0.00066	0.00002	±	0.00035
Kyoto,KYOTO	04	-	06	10346.4	0.00000	±	0.00063	0.00045	±	0.00028
Osaka,OSAKA	04	-	06	16028.4	0.00000	±	0.00038	0.00000	±	0.00022
Kobe,HYOGO	04	-	06	10367.4	0.00000	±	0.00055	0.00061	±	0.00038
Nara,NARA	04	-	06	10457.4	0.00000	±	0.00066	0.00026	±	0.00036
Wakayama,WAKAYAMA	04	-	06	11157.1	0.00065	±	0.00047	0.00038	±	0.00028
Yurihama-machi,TOTTORI	04	-	06	14340.0	0.00000	±	0.00044	0.00000	±	0.00024
Okayama,OKAYAMA	04	-	06	13420.8	0.00058	±	0.00042	0.00048	±	0.00024
Hiroshima,HIROSHIMA	04	-	06	9889.6	0.00000	±	0.00062	0.00000	±	0.00034
Yamaguchi,YAMAGUCHI	04	-	06	34460.2	0.00000	±	0.00017	0.00013	±	0.00012
Tokushima,TOKUSHIMA	04	-	06	10080.0	0.00005	±	0.00067	0.00000	±	0.00032
Takamatsu,KAGAWA	04	-	06	10107.1	0.0014	±	0.00072	0.00002	±	0.00035

Location	Sampling Period			Absorption (m^3)	Sr-90 (mBq/m^3)			Cs-137 (mBq/m^3)		
Saga,SAGA	04	-	06	10124.7	0.00057	±	0.00062	0.00002	±	0.00027
Omura,NAGASAKI	04	-	06	10080.0	0.00077	±	0.00056	0.00054	±	0.00034
Uto,KUMAMOTO	04	-	06	15317.5	0.00000	±	0.00041	0.00008	±	0.00023
Oita,OITA	04	-	06	10212.0	0.00047	±	0.00055	0.00025	±	0.00029
Miyazaki,MIYAZAKI	04	-	06	13219.0	0.00062	±	0.00051	0.00014	±	0.00023
Nanjo,OKINAWA	04	-	06	10046.1	0.00074	±	0.00060	0.00004	±	0.00030
May 2009～Jun.2009										
Omaezaki,SHIZUOKA	05	-	06	2005.8	0.0000	±	0.0025	0.0001	±	0.0016
Jul.2009～Sep.2009										
Morioka,IWATE	07	-	09	10368.0	0.00024	±	0.00059	0.00000	±	0.00025
Akita,AKITA	07	-	09	10800.0	0.00022	±	0.00055	0.00011	±	0.00030
Yamagata,YAMAGATA	07	-	09	12960.0	0.00000	±	0.00040	0.00019	±	0.00023
Okuma-machi,FUKUSHIMA	07	-	09	10000.0	0.00035	±	0.00059	0.00000	±	0.00027
Hitachinaka,IBARAKI	07	-	09	13823.6	0.00023	±	0.00040	0.00016	±	0.00022
Utsunomiya,TOCHIGI	07	-	09	14702.8	0.00013	±	0.00035	0.00011	±	0.00019
Maebashi,GUNMA	07	-	09	9940.9	0.00000	±	0.00056	0.00041	±	0.00034
Saitama,SAITAMA	07	-	09	12959.1	0.00010	±	0.00056	0.00000	±	0.00021
Ichihara,CHIBA	07	-	09	10368.0	0.0013	±	0.00059	0.00000	±	0.00024
Chigasaki,KANAGAWA	07	-	09	12095.2	0.00053	±	0.00052	0.00000	±	0.00024
Niigata,NIIGATA	07	-	09	9935.9	0.00000	±	0.00050	0.00000	±	0.00032
Imizu,TOYAMA	07	-	09	18014.0	0.00015	±	0.00031	0.00009	±	0.00018
Fukui,FUKUI	07	-	09	12959.1	0.00091	±	0.00046	0.00000	±	0.00020
Kofu,YAMANASHI	07	-	09	10367.1	0.00059	±	0.00058	0.00000	±	0.00027
Nagano,NAGANO	07	-	09	11160.0	0.0016	±	0.00059	0.00000	±	0.00023
Kakamigahara,GIFU	07	-	09	12359.0	0.00000	±	0.00051	0.00000	±	0.00025
Omaezaki,SHIZUOKA	07	-	09	13888.0	0.00025	±	0.00045	0.00024	±	0.00021
Nagoya,AICHI	07	-	09	10366.3	0.0014	±	0.00057	0.00002	±	0.00026
Yokkaichi,MIE	07	-	09	12959.0	0.00025	±	0.00046	0.00000	±	0.00022
Otsu,SHIGA	07	-	09	10037.5	0.00016	±	0.00053	0.00024	±	0.00033
Kyoto,KYOTO	07	-	09	10353.6	0.00011	±	0.00065	0.00037	±	0.00029
Osaka,OSAKA	07	-	09	19290.7	0.00023	±	0.00034	0.00026	±	0.00015
Kobe,HYOGO	07	-	09	10367.4	0.00000	±	0.00045	0.00000	±	0.00027
Nara,NARA	07	-	09	10493.4	0.00000	±	0.00051	0.00019	±	0.00028
Wakayama,WAKAYAMA	07	-	09	11117.6	0.00000	±	0.00047	0.00000	±	0.00027

Location	Sampling Period			Absorption (m^3)	Sr-90 (mBq/m^3)			Cs-137 (mBq/m^3)		
Yurihama-machi,TOTTORI	07	-	09	14340.0	0.00033	±	0.00043	0.00000	±	0.00022
Okayama,OKAYAMA	07	-	09	12643.2	0.0014	±	0.00060	0.00000	±	0.00023
Hiroshima,HIROSHIMA	07	-	09	10200.6	0.00046	±	0.00063	0.00000	±	0.00028
Yamaguchi,YAMAGUCHI	07	-	09	34287.2	0.00000	±	0.00015	0.00033	±	0.00011
Tokushima,TOKUSHIMA	07	-	09	10080.0	0.00047	±	0.00056	0.00013	±	0.00031
Takamatsu,KAGAWA	07	-	09	10053.4	0.00093	±	0.00064	0.00020	±	0.00032
Saga,SAGA	07	-	09	10124.7	0.0011	±	0.00073	0.00000	±	0.00028
Omura,NAGASAKI	07	-	09	10080.0	0.00080	±	0.00059	0.00000	±	0.00029
Uto,KUMAMOTO	07	-	09	14656.4	0.00000	±	0.00039	0.00029	±	0.00020
Oita,OITA	07	-	09	10618.8	0.00009	±	0.00049	0.00019	±	0.00028
Miyazaki,MIYAZAKI	07	-	09	11928.0	0.0010	±	0.00062	0.00000	±	0.00023
Nanjo,OKINAWA	07	-	09	10506.7	0.00064	±	0.00060	0.00004	±	0.00029
Oct.2009～Dec.2009										
Morioka,IWATE	10	-	12	10378.0	0.00031	±	0.00060	0.00037	±	0.00029
Akita,AKITA	10	-	12	10800.0	0.00012	±	0.00065	0.00000	±	0.00024
Yamagata,YAMAGATA	10	-	12	12960.0	0.0013	±	0.00050	0.00005	±	0.00022
Okuma-machi,FUKUSHIMA	10	-	12	10000.0	0.00000	±	0.00056	0.00000	±	0.00032
Hitachinaka,IBARAKI	10	-	12	13823.8	0.00054	±	0.00040	0.00024	±	0.00022
Utsunomiya,TOCHIGI	10	-	12	15510.0	0.00071	±	0.00048	0.00000	±	0.00019
Maebashi,GUNMA	10	-	12	9917.9	0.00039	±	0.00071	0.00000	±	0.00030
Saitama,SAITAMA	10	-	12	12959.1	0.0015	±	0.00053	0.00023	±	0.00023
Ichihara,CHIBA	10	-	12	10384.6	0.00057	±	0.00054	0.00011	±	0.00027
Chigasaki,KANAGAWA	10	-	12	12095.2	0.0012	±	0.00058	0.00007	±	0.00025
Niigata,NIIGATA	10	-	12	9935.8	0.00000	±	0.00054	0.00007	±	0.00029
Imizu,TOYAMA	10	-	12	18128.4	0.00000	±	0.00027	0.00000	±	0.00018
Fukui,FUKUI	10	-	12	12959.1	0.00045	±	0.00043	0.00009	±	0.00022
Kofu,YAMANASHI	10	-	12	10367.1	0.00060	±	0.00062	0.00000	±	0.00022
Nagano,NAGANO	10	-	12	11160.0	0.00087	±	0.00058	0.00000	±	0.00025
Kakamigahara,GIFU	10	-	12	12323.0	0.00075	±	0.00056	0.00000	±	0.00023
Omaezaki,SHIZUOKA	10	-	12	10719.3	0.00000	±	0.00056	0.00027	±	0.00027
Nagoya,AICHI	10	-	12	10366.2	0.00053	±	0.00058	0.00000	±	0.00030
Yokkaichi,MIE	10	-	12	12959.0	0.00016	±	0.00047	0.00000	±	0.00020
Otsu,SHIGA	10	-	12	10099.2	0.00000	±	0.00061	0.00016	±	0.00030
Kyoto,KYOTO	10	-	12	10368.0	0.00000	±	0.00053	0.00000	±	0.00025

Location	Sampling Period			Absorption (m^3)	Sr-90 (mBq/m^3)			Cs-137 (mBq/m^3)		
Osaka,OSAKA	10	-	12	18642.2	0.00000	±	0.00031	0.00007	±	0.00017
Kobe,HYOGO	10	-	12	10367.4	0.00000	±	0.00058	0.00000	±	0.00029
Nara,NARA	10	-	12	10495.9	0.00033	±	0.00050	0.00000	±	0.00025
Wakayama,WAKAYAMA	10	-	12	11121.1	0.0013	±	0.00072	0.00000	±	0.00024
Yurihama-machi,TOTTORI	10	-	12	14340.0	0.00099	±	0.00048	0.00000	±	0.00020
Okayama,OKAYAMA	10	-	12	12614.4	0.00080	±	0.00054	0.00000	±	0.00024
Hiroshima,HIROSHIMA	10	-	12	10200.6	0.00032	±	0.00072	0.00000	±	0.00033
Yamaguchi,YAMAGUCHI	10	-	12	34630.6	0.00026	±	0.00019	0.00020	±	0.000094
Tokushima,TOKUSHIMA	10	-	12	10080.0	0.00000	±	0.00055	0.00000	±	0.00028
Takamatsu,KAGAWA	10	-	12	10068.0	0.0012	±	0.00060	0.00024	±	0.00029
Saga,SAGA	10	-	12	10124.7	0.00012	±	0.00065	0.00000	±	0.00026
Omura,NAGASAKI	10	-	12	10080.0	0.00014	±	0.00054	0.00000	±	0.00031
Uto,KUMAMOTO	10	-	12	15235.0	0.00067	±	0.00045	0.00003	±	0.00019
Oita,OITA	10	-	12	10979.4	0.00005	±	0.00054	0.00014	±	0.00031
Miyazaki,MIYAZAKI	10	-	12	13001.0	0.00040	±	0.00052	0.00000	±	0.00026
Nanjo,OKINAWA	10	-	12	13997.4	0.00005	±	0.00046	0.00007	±	0.00022
Jan.2010～Mar.2010										
Morioka,IWATE	01	-	03	10367.3	0.00072	±	0.00065	0.00000	±	0.00025
Akita,AKITA	01	-	03	10800.0	0.0013	±	0.00061	0.00017	±	0.00026
Yamagata,YAMAGATA	01	-	03	12960.0	0.00014	±	0.00057	0.00011	±	0.00024
Okuma-machi,FUKUSHIMA	01	-	03	10000.0	0.00052	±	0.00059	0.00000	±	0.00027
Hitachinaka,IBARAKI	01	-	03	13825.1	0.00019	±	0.00042	0.00018	±	0.00022
Utsunomiya,TOCHIGI	01	-	03	16204.9	0.00059	±	0.00038	0.00008	±	0.00018
Maebashi,GUNMA	01	-	03	9906.4	0.00000	±	0.00060	0.00014	±	0.00032
Saitama,SAITAMA	01	-	03	12959.1	0.00069	±	0.00044	0.00002	±	0.00021
Ichihara,CHIBA	01	-	03	10353.6	0.00029	±	0.00056	0.00000	±	0.00026
Chigasaki,KANAGAWA	01	-	03	12095.2	0.00044	±	0.00054	0.00053	±	0.00027
Niigata,NIIGATA	01	-	03	9936.0	0.00035	±	0.00059	0.00011	±	0.00027
Imizu,TOYAMA	01	-	03	18114.0	0.00064	±	0.00032	0.00010	±	0.00015
Fukui,FUKUI	01	-	03	12959.1	0.00000	±	0.00044	0.00000	±	0.00019
Kofu,YAMANASHI	01	-	03	10367.1	0.00079	±	0.00062	0.00006	±	0.00028
Nagano,NAGANO	01	-	03	11160.0	0.00014	±	0.00053	0.00000	±	0.00026
Kakamigahara,GIFU	01	-	03	12108.2	0.0010	±	0.00046	0.00000	±	0.00023
Omaezaki,SHIZUOKA	01	-	03	10484.7	0.00000	±	0.00048	0.00032	±	0.00028

Location	Sampling Period			Absorption (m^3)	Sr-90 (mBq/m^3)			Cs-137 (mBq/m^3)		
Nagoya,AICHI	01	-	03	10366.2	0.00071	±	0.00051	0.00000	±	0.00024
Yokkaichi,MIE	01	-	03	12959.0	0.00005	±	0.00049	0.00000	±	0.00023
Otsu,SHIGA	01	-	03	10085.2	0.00039	±	0.00060	0.00000	±	0.00027
Kyoto,KYOTO	01	-	03	10333.6	0.00096	±	0.00054	0.00000	±	0.00026
Osaka,OSAKA	01	-	03	14621.2	0.00079	±	0.00041	0.00020	±	0.00020
Kobe,HYOGO	01	-	03	10367.4	0.00054	±	0.00059	0.00024	±	0.00028
Nara,NARA	01	-	03	10493.8	0.0011	±	0.00059	0.00019	±	0.00027
Wakayama,WAKAYAMA	01	-	03	11132.6	0.00031	±	0.00046	0.00000	±	0.00025
Yurihama-machi,TOTTORI	01	-	03	14340.0	0.00042	±	0.00036	0.00020	±	0.00020
Okayama,OKAYAMA	01	-	03	13233.6	0.0011	±	0.00055	0.00008	±	0.00021
Hiroshima,HIROSHIMA	01	-	03	10200.6	0.00000	±	0.00058	0.00000	±	0.00027
Yamaguchi,YAMAGUCHI	01	-	03	34587.1	0.00023	±	0.00015	0.00013	±	0.000088
Tokushima,TOKUSHIMA	01	-	03	10080.0	0.00000	±	0.00055	0.00025	±	0.00028
Takamatsu,KAGAWA	01	-	03	10064.3	0.00000	±	0.00060	0.00020	±	0.00030
Saga,SAGA	01	-	03	10124.7	0.00077	±	0.00056	0.00020	±	0.00029
Omura,NAGASAKI	01	-	03	10080.0	0.00028	±	0.00055	0.00043	±	0.00031
Uto,KUMAMOTO	01	-	03	14918.3	0.00003	±	0.00039	0.00023	±	0.00019
Oita,OITA	01	-	03	10412.4	0.00005	±	0.00054	0.00002	±	0.00027
Miyazaki,MIYAZAKI	01	-	03	12841.0	0.00015	±	0.00061	0.00000	±	0.00022
Nanjo,OKINAWA	01	-	03	10377.2	0.00000	±	0.00043	0.00000	±	0.00027

(3) Strontium-90 and Cesium-137 in Service water
(from Apr.2009 to Mar.2010)
Table (3) : Strontium-90 and Cesium-137 in Service water

Location	pH (pH)	Sr-90 (mBq/L)			Cs-137 (mBq/L)		
(Source water)							
May 2009							
Sapporo,HOKKAIDO	6.8	0.74	±	0.10	0.16	±	0.049
Jun.2009							
Saitama,SAITAMA	7.2	1.1	±	0.15	0.040	±	0.045
Katsushika,TOKYO	7.1	0.93	±	0.15	0.13	±	0.053
Sagamihara,KANAGAWA	7.7	0.29	±	0.077	0.003	±	0.037
Inuyama,AICHI	6.9	1.4	±	0.15	0.030	±	0.042
Kyoto,KYOTO	8.6	1.5	±	0.14	0.066	±	0.040
Moriguchi,OSAKA	7.1	1.6	±	0.14	0.024	±	0.042
Fukuoka,FUKUOKA	7.03	1.5	±	0.15	0.082	±	0.044
Jul.2009							
Kisarazu,CHIBA	7.7	1.4	±	0.14	0.000	±	0.049
Nagano,NAGANO	7.5	0.73	±	0.10	0.026	±	0.045
(Tap water)							
Jun.2009							
Wakkanai,HOKKAIDO	6.8	0.73	±	0.11	0.006	±	0.040
Aomori,AOMORI	7.5	0.80	±	0.11	0.060	±	0.049
Morioka,IWATE	7.4	0.53	±	0.11	0.041	±	0.043
Sendai,MIYAGI	—	0.56	±	0.091	0.000	±	0.037
Akita,AKITA	7.1	1.7	±	0.18	0.021	±	0.044
Yamagata,YAMAGATA	7.0	1.2	±	0.14	0.070	±	0.044
Fukushima,FUKUSHIMA	7.7	1.6	±	0.14	0.032	±	0.036
Hitachinaka,IBARAKI	7.5	0.65	±	0.093	0.046	±	0.040
Utsunomiya,TOCHIGI	6.0	0.55	±	0.091	0.085	±	0.041
Maebashi,GUNMA	7.01	1.1	±	0.13	0.16	±	0.049
Saitama,SAITAMA	7.1	0.93	±	0.12	0.000	±	0.037
Ichihara,CHIBA	7.6	1.5	±	0.15	0.000	±	0.049
Katsushika,TOKYO	7.2	1.0	±	0.13	0.087	±	0.054
Yokosuka,KANAGAWA	7.2	0.33	±	0.094	0.009	±	0.046
Niigata,NIIGATA	7.1	1.7	±	0.15	0.10	±	0.046

Location	pH (pH)	Sr-90 (mBq/L)			Cs-137 (mBq/L)		
Imizu,TOYAMA	7.8	0.76	±	0.10	0.098	±	0.047
Fukui,FUKUI	7.0	0.31	±	0.079	0.021	±	0.038
Kofu,YAMANASHI	6.5	0.66	±	0.10	0.056	±	0.046
Nagano,NAGANO	7.2	0.42	±	0.098	0.000	±	0.037
Kakamigahara,GIFU	7.5	0.000	±	0.061	0.000	±	0.037
Shizuoka,SHIZUOKA	6.1	0.39	±	0.092	0.000	±	0.040
Nagoya,AICHI	6.9	1.3	±	0.14	0.006	±	0.039
Yokkaichi,MIE	7.4	2.3	±	0.19	0.000	±	0.042
Kyoto,KYOTO	7.2	1.4	±	0.14	0.009	±	0.038
Osaka,OSAKA	7.8	1.4	±	0.13	0.098	±	0.047
Kobe,HYOGO	7.7	1.3	±	0.13	0.11	±	0.045
Nara,NARA	7.5	1.5	±	0.13	0.020	±	0.039
Yurihama-machi,TOTTORI	7.5	0.008	±	0.080	0.000	±	0.043
Okayama,OKAYAMA	7.1	1.1	±	0.14	0.056	±	0.052
Hiroshima,HIROSHIMA	6.8	1.5	±	0.16	0.032	±	0.045
Ube,YAMAGUCHI	7.5	1.1	±	0.13	0.000	±	0.038
Tokushima,TOKUSHIMA	7.3	1.0	±	0.13	0.000	±	0.039
Takamatsu,KAGAWA	7.6	1.5	±	0.14	0.000	±	0.043
Matsuyama,EHIME	7.8	0.83	±	0.12	0.000	±	0.043
Fukuoka,FUKUOKA	6.78	1.8	±	0.17	0.000	±	0.038
Saga,SAGA	7.3	0.85	±	0.11	0.14	±	0.043
Uto,KUMAMOTO	7.4	0.047	±	0.075	0.000	±	0.037
Oita,OITA	7.7	0.73	±	0.13	0.11	±	0.070
Miyazaki,MIYAZAKI	6.8	0.51	±	0.087	0.17	±	0.056
Jul.2009							
Kanazawa,ISHIKAWA	7.7	1.1	±	0.13	0.000	±	0.045
Otsu,SHIGA	6.6	1.5	±	0.14	0.000	±	0.044
Oomura,NAGASAKI	7.0	0.59	±	0.094	0.10	±	0.046
Sep.2009							
Kagoshima,KAGOSHIMA	7.5	0.55	±	0.097	0.063	±	0.044
Naha,OKINAWA	7.4	2.1	±	0.14	0.15	±	0.055
Dec.2009							
Shingu,WAKAYAMA	—	0.73	±	0.11	0.003	±	0.033
Kochi,KOCHI	7.2	1.5	±	0.13	0.013	±	0.047

Location	pH (pH)	Sr-90 (mBq/L)			Cs-137 (mBq/L)		
Jan.2010							
Matsue,SHIMANE	7.2	1.7	±	0.15	0.058	±	0.040

(4) Strontium-90 and Cesium-137 in Fresh water
(from Apr.2009 to Mar.2010)
Table (4) : Strontium-90 and Cesium-137 in Fresh water

Location	pH (pH)	Sr-90 (mBq/L)			Cs-137 (mBq/L)		
(Fresh water)							
May 2009							
IBARAKI	8.7	1.4	±	0.13	0.17	±	0.049
Jul.2009							
Ishikari,HOKKAIDO	7.2	1.5	±	0.14	0.000	±	0.045
Akita,AKITA	6.7	2.4	±	0.16	0.37	±	0.061
Aug.2009							
Tsuruga,FUKUI	9.7	1.6	±	0.14	1.0	±	0.09
Sep.2009							
Fukushima,FUKUSHIMA	7.3	0.074	±	0.060	0.038	±	0.037
Oct.2009							
NAGANO	7.7	0.69	±	0.096	0.11	±	0.047
Kameyama,MIE	7.4	3.5	±	0.19	0.000	±	0.036
Syobara,HIROSHIMA	6.9	1.4	±	0.13	0.049	±	0.041
Nov.2009							
Niigata,NIIGATA	6.6	1.4	±	0.13	0.17	±	0.048

(5) Strontium-90 and Cesium-137 in Soil
(from Apr.2009 to Mar.2010)
Table (5) : Strontium-90 and Cesium-137 in Soil

Location	Sampling depth(cm)	Sr-90 (Bq/kg)			Sr-90 (MBq/km^2)			Cs-137 (Bq/kg)			Cs-137 (MBq/km^2)		
May 2009													
Tokai-mura,IBARAKI	0 - 5	7.9	±	0.32	310	±	13	60	±	0.7	2300	±	30
Tokai-mura,IBARAKI	5 - 20	8.0	±	0.35	680	±	30	32	±	0.5	2800	±	40
Tahara,AICHI	0 - 5	0.21	±	0.063	9.1	±	2.7	1.7	±	0.12	73	±	5.3
Tahara,AICHI	5 - 20	0.30	±	0.074	49	±	12	1.0	±	0.10	170	±	16
Jun.2009													
Fukushima,FUKUSHIMA	0 - 5	1.4	±	0.15	49	±	5.3	18	±	0.4	630	±	13
Fukushima,FUKUSHIMA	5 - 20	1.5	±	0.16	160	±	17	16	±	0.4	1700	±	40
Oda,SHIMANE	0 - 5	3.1	±	0.20	65	±	4.2	15	±	0.3	310	±	7
Oda,SHIMANE	5 - 20	1.5	±	0.14	110	±	11	8.0	±	0.25	630	±	20
Jul.2009													
Aomori,AOMORI	0 - 5	3.1	±	0.21	52	±	3.6	15	±	0.3	250	±	6
Gosyogawara,AOMORI	0 - 5	0.35	±	0.083	14	±	3.2	0.97	±	0.095	38	±	3.7
Aomori,AOMORI	5 - 20	3.7	±	0.23	390	±	25	16	±	0.4	1700	±	40
Gosyogawara,AOMORI	5 - 20	0.55	±	0.10	95	±	17	2.9	±	0.16	510	±	27
Saitama,SAITAMA	0 - 5	0.89	±	0.12	27	±	3.8	4.8	±	0.20	150	±	6
Saitama,SAITAMA	5 - 20	0.73	±	0.12	70	±	11	0.70	±	0.084	67	±	8.0
Ichihara,CHIBA	0 - 5	0.11	±	0.063	5.6	±	3.3	0.98	±	0.095	50	±	4.9
Ichihara,CHIBA	5 - 20	0.28	±	0.077	49	±	14	0.65	±	0.080	110	±	14
Kashiwazaki,NIIGATA	0 - 5	0.64	±	0.10	36	±	5.7	5.9	±	0.22	330	±	12
Kashiwazaki,NIIGATA	5 - 20	0.59	±	0.10	86	±	15	9.8	±	0.28	1400	±	40
Fukui,FUKUI	0 - 5	0.36	±	0.082	12	±	2.6	2.6	±	0.15	83	±	4.8
Fukui,FUKUI	5 - 20	0.14	±	0.064	17	±	7.6	1.7	±	0.12	200	±	14
Komono-machi,MIE	0 - 5	0.049	±	0.058	2.3	±	2.7	1.1	±	0.10	51	±	4.9
Komono-machi,MIE	5 - 20	0.094	±	0.066	17	±	12	0.18	±	0.056	33	±	9.9
Yasu,SHIGA	0 - 5	0.34	±	0.095	16	±	4.4	8.9	±	0.27	420	±	13
Yasu,SHIGA	5 - 20	0.23	±	0.086	32	±	12	4.8	±	0.20	680	±	28
Kyoto,KYOTO	0 - 5	0.99	±	0.13	22	±	2.8	2.1	±	0.13	45	±	2.9
Kyoto,KYOTO	5 - 20	1.1	±	0.14	160	±	20	3.7	±	0.18	550	±	26
Kasai,HYOGO	0 - 5	0.95	±	0.12	31	±	3.9	0.69	±	0.084	23	±	2.7
Kasai,HYOGO	5 - 20	0.39	±	0.082	43	±	9.2	0.64	±	0.079	71	±	8.8

Location	Sampling depth(cm)	Sr-90 (Bq/kg)			Sr-90 (MBq/km^2)			Cs-137 (Bq/kg)			Cs-137 (MBq/km^2)		
Kashihara,NARA	0 - 5	0.53	±	0.10	45	±	8.4	3.8	±	0.18	320	±	15
Kashihara,NARA	5 - 20	0.50	±	0.098	120	±	23	3.8	±	0.18	880	±	41
Misaki-machi,OKAYAMA	0 - 5	0.96	±	0.13	27	±	3.6	2.2	±	0.14	62	±	3.9
Misaki-machi,OKAYAMA	5 - 20	0.48	±	0.099	36	±	7.5	0.57	±	0.079	43	±	6.0
Hiroshima,HIROSHIMA	0 - 5	0.57	±	0.096	39	±	6.5	3.6	±	0.17	240	±	12
Hiroshima,HIROSHIMA	5 - 20	1.3	±	0.14	170	±	18	4.0	±	0.18	530	±	24
Sakaide,KAGAWA	0 - 5	1.3	±	0.14	40	±	4.2	6.4	±	0.23	190	±	7
Sakaide,KAGAWA	5 - 20	1.6	±	0.15	88	±	8.7	1.4	±	0.11	82	±	6.4
Fukuoka,FUKUOKA	0 - 5	2.7	±	0.21	220	±	17	2.5	±	0.15	200	±	12
Fukuoka,FUKUOKA	5 - 20	1.2	±	0.14	170	±	19	0.62	±	0.078	83	±	11
Sasebo,NAGASAKI	0 - 5	0.79	±	0.11	50	±	7.0	18	±	0.4	1200	±	20
Sasebo,NAGASAKI	5 - 20	1.4	±	0.14	230	±	25	5.7	±	0.22	990	±	38
Taketa,OITA	0 - 5	1.3	±	0.15	21	±	2.4	53	±	0.6	870	±	11
Taketa,OITA	5 - 20	1.3	±	0.15	65	±	7.5	12	±	0.3	570	±	15
Aug.2009													
Ebetsu,HOKKAIDO	0 - 5	3.2	±	0.21	62	±	4.1	14	±	0.3	270	±	7
Ebetsu,HOKKAIDO	5 - 20	2.1	±	0.18	340	±	28	7.6	±	0.26	1200	±	40
Takizawa-mura,IWATE	0 - 5	5.6	±	0.28	170	±	8	37	±	0.5	1100	±	20
Takizawa-mura,IWATE	5 - 20	6.2	±	0.29	630	±	29	8.2	±	0.26	820	±	26
Yamagata,YAMAGATA	0 - 5	2.2	±	0.18	98	±	8.1	14	±	0.3	650	±	15
Yamagata,YAMAGATA	5 - 20	1.3	±	0.14	200	±	22	2.6	±	0.15	400	±	23
Yokosuka,KANAGAWA	0 - 5	1.8	±	0.16	75	±	6.7	4.6	±	0.20	190	±	8
Yokosuka,KANAGAWA	5 - 20	2.1	±	0.18	260	±	22	4.4	±	0.20	550	±	24
Imizu,TOYAMA	0 - 5	0.16	±	0.075	7.2	±	3.3	2.1	±	0.14	95	±	6.2
Imizu,TOYAMA	5 - 20	0.22	±	0.083	30	±	12	3.5	±	0.17	480	±	23
Kanazawa,ISHIKAWA	0 - 5	4.0	±	0.24	85	±	5.1	24	±	0.4	500	±	9
Kanazawa,ISHIKAWA	5 - 20	4.4	±	0.25	390	±	22	19	±	0.4	1700	±	40
Hokuto,YAMANASHI	0 - 5	3.4	±	0.23	54	±	3.6	13	±	0.3	200	±	5
Hokuto,YAMANASHI	5 - 20	3.9	±	0.25	210	±	13	13	±	0.3	690	±	17
Nagano,NAGANO	0 - 5	5.1	±	0.28	100	±	6	45	±	0.6	890	±	12
Nagano,NAGANO	5 - 20	4.3	±	0.26	280	±	17	8.5	±	0.26	560	±	18
Gifu,GIFU	0 - 5	0.60	±	0.099	30	±	5.0	3.3	±	0.16	170	±	8
Gifu,GIFU	5 - 20	0.73	±	0.11	110	±	18	3.6	±	0.17	550	±	26
Fujinomiya,SHIZUOKA	0 - 5	1.7	±	0.16	22	±	2.1	14	±	0.3	180	±	4

Location	Sampling depth(cm)	Sr-90 (Bq/kg)			Sr-90 (MBq/km^2)			Cs-137 (Bq/kg)			Cs-137 (MBq/km^2)		
Fujinomiya,SHIZUOKA	5 - 20	2.2	±	0.19	66	±	5.5	13	±	0.3	370	±	10
Osaka,OSAKA	0 - 5	0.27	±	0.081	13	±	3.9	1.0	±	0.10	49	±	4.8
Osaka,OSAKA	5 - 20	0.56	±	0.10	96	±	17	2.4	±	0.14	410	±	25
Kurayoshi,TOTTORI	0 - 5	0.000	±	0.048	0.0	±	2.5	0.14	±	0.046	7.4	±	2.4
Kurayoshi,TOTTORI	5 - 20	0.035	±	0.062	2.1	±	3.8	0.016	±	0.033	1.0	±	2.0
Hagi,YAMAGUCHI	0 - 5	0.96	±	0.12	58	±	7.5	3.8	±	0.17	230	±	11
Hagi,YAMAGUCHI	5 - 20	1.3	±	0.15	260	±	29	2.1	±	0.13	410	±	26
Kamiita-machi,TOKUSHIMA	0 - 5	0.55	±	0.093	53	±	8.8	0.90	±	0.092	86	±	8.7
Kamiita-machi,TOKUSHIMA	5 - 20	0.61	±	0.099	61	±	9.9	1.4	±	0.11	140	±	11
Matsuyama,EHIME	0 - 5	1.2	±	0.14	17	±	2.0	23	±	0.4	340	±	6
Matsuyama,EHIME	5 - 20	0.20	±	0.066	6.8	±	2.3	11	±	0.3	390	±	10
Kochi,KOCHI	0 - 5	2.2	±	0.18	45	±	3.9	15	±	0.3	310	±	7
Kochi,KOCHI	5 - 20	3.1	±	0.22	190	±	14	3.0	±	0.16	190	±	10
Saga,SAGA	0 - 5	0.067	±	0.056	4.6	±	3.8	0.50	±	0.072	34	±	4.9
Saga,SAGA	5 - 20	0.23	±	0.075	41	±	13	0.42	±	0.066	74	±	12
Nishihara-mura,KUMAMOTO	0 - 5	2.7	±	0.19	51	±	3.5	38	±	0.6	700	±	10
Nishihara-mura,KUMAMOTO	5 - 20	2.4	±	0.19	150	±	12	12	±	0.3	780	±	20
Miyazaki,MIYAZAKI	0 - 5	0.44	±	0.099	19	±	4.3	2.0	±	0.13	85	±	5.6
Miyazaki,MIYAZAKI	5 - 20	0.39	±	0.096	69	±	17	1.9	±	0.13	330	±	23
Uruma,OKINAWA	0 - 5	0.26	±	0.069	11	±	3.0	0.65	±	0.082	28	±	3.6
Uruma,OKINAWA	5 - 20	0.17	±	0.062	12	±	4.6	0.62	±	0.080	45	±	5.9
Sep.2009													
Osaki,MIYAGI	0 - 5	1.8	±	0.17	58	±	5.4	2.8	±	0.15	88	±	4.7
Osaki,MIYAGI	5 - 20	0.97	±	0.14	180	±	26	2.4	±	0.14	450	±	26
Akita,AKITA	0 - 5	3.9	±	0.24	140	±	9	22	±	0.4	800	±	16
Akita,AKITA	5 - 20	3.8	±	0.24	400	±	25	23	±	0.4	2400	±	50
Nikko,TOCHIGI	0 - 5	14	±	0.5	180	±	6	38	±	0.6	490	±	7
Nikko,TOCHIGI	5 - 20	4.0	±	0.25	170	±	11	13	±	0.3	540	±	14
Shinjuku,TOKYO	0 - 5	0.36	±	0.10	21	±	6.1	1.5	±	0.12	88	±	7.0
Shinjuku,TOKYO	5 - 20	0.59	±	0.10	42	±	7.5	2.3	±	0.14	160	±	10
Oct.2009													
Maebashi,GUNMA	0 - 5	1.1	±	0.13	33	±	4.1	1.1	±	0.10	33	±	3.1
Maebashi,GUNMA	5 - 20	1.2	±	0.14	120	±	14	0.62	±	0.079	61	±	7.8
Ibusuki,KAGOSHIMA	0 - 5	0.000	±	0.053	0.0	±	3.3	0.43	±	0.069	27	±	4.3

Location	Sampling depth(cm)	Sr-90 (Bq/kg)			Sr-90 (MBq/km^2)			Cs-137 (Bq/kg)			Cs-137 (MBq/km^2)		
Ibusuki,KAGOSHIMA	5 - 20	0.15	±	0.076	15	±	7.9	0.56	±	0.076	59	±	7.9
Naha,OKINAWA	0 - 5	0.26	±	0.075	7.2	±	2.1	1.1	±	0.10	31	±	2.8
Naha,OKINAWA	5 - 20	0.55	±	0.096	33	±	5.8	2.0	±	0.13	120	±	8
Dec.2009													
Shingu,WAKAYAMA	0 - 5	0.039	±	0.066	1.3	±	2.2	1.3	±	0.11	43	±	3.5
Shingu,WAKAYAMA	5 - 20	0.11	±	0.070	9.5	±	6.1	1.1	±	0.10	94	±	8.4

(6) Strontium-90 and Cesium-137 in Seawater
(from Apr.2009 to Mar.2010)
Table (6) : Strontium-90 and Cesium-137 in Seawater

Location	Sample Volume analyzed (L)	Cl (‰)	Sr-90 (mBq/L)			Cs-137 (mBq/L)		
Jul.2009								
Fukaura-machi,AOMORI	30.0	18.0	1.4	±	0.30	2.0	±	0.32
Hirono-machi,IWATE	30.0	—	1.1	±	0.35	1.8	±	0.33
Soma,FUKUSHIMA	30.0	18.04	1.1	±	0.27	1.3	±	0.27
Tokai-mura,IBARAKI	30.0	17.62	1.5	±	0.28	1.4	±	0.31
Sodegaura,CHIBA	30.0	19.7	1.4	±	0.29	1.5	±	0.32
Niigata,NIIGATA	30.0	18	1.6	±	0.29	1.2	±	0.29
Aug.2009								
Yoichi-bay,HOKKAIDO	30.0	18.25	1.2	±	0.27	1.9	±	0.34
Mutsu-bay,AOMORI	30.0	17.7	1.4	±	0.29	1.3	±	0.28
Odawa-bay,KANAGAWA	30.0	17.43	1.3	±	0.29	1.6	±	0.29
Osaka-Port,OSAKA	30.0	8.29	1.4	±	0.31	0.83	±	0.25
Yamaguchi-bay,YAMAGUCHI	30.0	17	1.0	±	0.26	2.2	±	0.33
Kitakyusyu,FUKUOKA	30.0	15.8	1.3	±	0.29	1.2	±	0.28
Sep.2009								
Minamisatsuma,KAGOSHIMA	30.0	18.5	1.2	±	0.29	1.5	±	0.31
Nov.2009								
Tokoname,AICHI	30.0	19.15	1.1	±	0.25	1.5	±	0.29
Dec.2009								
White-beach,OKINAWA	30.0	18.6	0.93	±	0.24	1.9	±	0.30

(7) Strontium-90 and Cesium-137 in Sea sediments
(from Apr.2009 to Mar.2010)

Table (7) : Strontium-90 and Cesium-137 in Sea sediments

Location	Depth (m)	Sr-90 (Bq/kg)			Cs-137 (Bq/kg)		
Jul.2009							
Fukaura-machi,AOMORI	15.0	0.000	±	0.049	0.43	±	0.074
Hirono-machi,IWATE	23.0	0.000	±	0.043	0.19	±	0.052
Soma,FUKUSHIMA	5.0	0.000	±	0.048	0.35	±	0.068
Tokai-mura,IBARAKI	22.0	0.018	±	0.047	0.66	±	0.084
Sodegaura,CHIBA	12.0	0.032	±	0.053	2.7	±	0.16
Niigata,NIIGATA	30.5	0.000	±	0.057	0.48	±	0.073
Aug.2009							
Yoichi-bay,HOKKAIDO	13.0	0.073	±	0.059	0.20	±	0.057
Mutsu-bay,AOMORI	13.0	0.007	±	0.052	3.9	±	0.19
Odawa-bay,KANAGAWA	5.9	0.15	±	0.068	1.1	±	0.11
Osaka-Port,OSAKA	12.3	0.000	±	0.050	1.9	±	0.13
Yamaguchi-bay,YAMAGUCHI	13.4	0.098	±	0.061	2.5	±	0.15
Kitakyusyu,FUKUOKA	6.0	0.080	±	0.056	2.8	±	0.16
Sep.2009							
Minamisatsuma,KAGOSHIMA	5.5	0.000	±	0.049	0.18	±	0.058
Nov.2009							
Tokoname,AICHI	8.5	0.000	±	0.043	0.35	±	0.070
Dec.2009							
White-beach,OKINAWA	13.6	0.049	±	0.059	0.062	±	0.048

(8)

Strontium-90 and Cesium-137 in Rice(producing districts)
(from Apr.2009 to Mar.2010)

Table (8) : Strontium-90 and Cesium-137 in Rice(producing districts)

Location	Ash	Ca	K	Sr-90		Cs-137	
	(%)	(g/kg wet)	(g/kg wet)	(Bq/kg wet)	(Bq/g Ca)	(Bq/kg wet)	(Bq/g K)
Sep.2009							
Matsusaka,MIE	0.566	0.041	0.940	0.0086 ± 0.0056	0.21 ± 0.14	0.0054 ± 0.0039	0.0058 ± 0.0041
Takamatsu,KAGAWA	0.530	0.042	0.901	0.0052 ± 0.0055	0.12 ± 0.13	0.0031 ± 0.0036	0.0034 ± 0.0040
Miyazaki,MIYAZAKI	0.647	0.036	0.612	0.0026 ± 0.0047	0.07 ± 0.13	0.0000 ± 0.0031	0.0000 ± 0.0051
Uruma,OKINAWA	0.658	0.037	0.875	0.0026 ± 0.0052	0.07 ± 0.14	0.0098 ± 0.0045	0.011 ± 0.0051
Oct.2009							
Hirosaki,AOMORI	0.478	0.036	0.927	0.0044 ± 0.0048	0.12 ± 0.13	0.0065 ± 0.0043	0.0070 ± 0.0047
Akita,AKITA	0.622	0.039	0.802	0.0007 ± 0.0063	0.02 ± 0.16	0.010 ± 0.0047	0.013 ± 0.0058
Chiba,CHIBA	0.696	0.044	0.919	0.0000 ± 0.0039	0.000 ± 0.089	0.0016 ± 0.0035	0.0017 ± 0.0038
Niigata,NIIGATA	0.620	0.041	0.688	0.0026 ± 0.0054	0.06 ± 0.13	0.0008 ± 0.0041	0.0012 ± 0.0059
Imizu,TOYAMA	0.597	0.048	0.746	0.0000 ± 0.0046	0.000 ± 0.097	0.0024 ± 0.0038	0.0032 ± 0.0052
Azumino,NAGANO	0.528	0.047	0.876	0.0081 ± 0.0068	0.17 ± 0.15	0.0000 ± 0.0036	0.0000 ± 0.0041
Gifu,GIFU	0.644	0.051	0.857	0.0099 ± 0.0066	0.19 ± 0.13	0.0000 ± 0.0035	0.0000 ± 0.0041
Higashi-oumi,SHIGA	0.589	0.045	0.995	0.0000 ± 0.0045	0.00 ± 0.10	0.0016 ± 0.0035	0.0016 ± 0.0035
Kashihara,NARA	0.771	0.059	0.925	0.015 ± 0.0073	0.25 ± 0.12	0.0000 ± 0.0043	0.0000 ± 0.0046
Yamaguchi,YAMAGUCHI	0.733	0.049	1.13	0.0028 ± 0.0059	0.06 ± 0.12	0.0080 ± 0.0047	0.0071 ± 0.0041
Koshi,KUMAMOTO	0.658	0.041	0.961	0.0000 ± 0.0058	0.00 ± 0.14	0.0031 ± 0.0039	0.0032 ± 0.0041
Usa,OITA	0.743	0.037	0.773	0.0058 ± 0.0051	0.15 ± 0.14	0.0089 ± 0.0046	0.012 ± 0.0059
Nov.2009							
Ishikari,HOKKAIDO	0.647	0.045	0.873	0.0000 ± 0.0059	0.00 ± 0.13	0.0000 ± 0.0035	0.0000 ± 0.0040
Takizawa-mura,IWATE	0.558	0.044	0.742	0.0000 ± 0.0057	0.00 ± 0.13	0.014 ± 0.0051	0.018 ± 0.0069
Ishinomaki,MIYAGI	0.547	0.043	0.793	0.0006 ± 0.0044	0.01 ± 0.10	0.0004 ± 0.0038	0.0005 ± 0.0048
Fukushima,FUKUSHIMA	0.655	0.044	0.681	0.0000 ± 0.0038	0.000 ± 0.087	0.027 ± 0.0058	0.039 ± 0.0085
Utsunomiya,TOCHIGI	0.595	0.039	0.613	0.0000 ± 0.0050	0.00 ± 0.13	0.0000 ± 0.0032	0.0000 ± 0.0052
Uchinada-machi,ISHIKAWA	0.592	0.039	0.752	0.0042 ± 0.0059	0.11 ± 0.15	0.0000 ± 0.0034	0.0000 ± 0.0046
Saga,SAGA	0.720	0.044	0.691	0.0066 ± 0.0052	0.15 ± 0.12	0.0085 ± 0.0044	0.012 ± 0.0064
Dec.2009							
Mito,IBARAKI	0.636	0.049	0.615	0.0006 ± 0.0044	0.013 ± 0.090	0.0090 ± 0.0046	0.015 ± 0.0075
Maebashi,GUNMA	0.804	0.044	0.804	0.0096 ± 0.0058	0.22 ± 0.13	0.0047 ± 0.0041	0.0059 ± 0.0051
Yokosuka,KANAGAWA	0.788	0.053	1.03	0.0021 ± 0.0062	0.04 ± 0.12	0.0032 ± 0.0040	0.0031 ± 0.0039

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90 (Bq/kg wet)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/kg wet)	Cs-137 (Bq/g K)
Hokuto,YAMANASHI	0.656	0.042	0.813	0.0014 ± 0.0060	0.03 ± 0.14	0.0000 ± 0.0029	0.0000 ± 0.0036
Kasai,HYOGO	0.621	0.051	0.702	0.0019 ± 0.0046	0.038 ± 0.091	0.0000 ± 0.0035	0.0000 ± 0.0050
Chikushino,FUKUOKA	0.783	0.058	0.893	0.011 ± 0.0072	0.19 ± 0.12	0.092 ± 0.0094	0.10 ± 0.011
Jan.2010							
Ishii-machi,TOKUSHIMA	0.625	0.040	0.694	0.0000 ± 0.0039	0.000 ± 0.097	0.0000 ± 0.0031	0.0000 ± 0.0045
Sasebo,NAGASAKI	0.734	0.048	0.712	0.0041 ± 0.0062	0.08 ± 0.13	0.016 ± 0.0047	0.022 ± 0.0066

(9)-1

Strontium-90 and Cesium-137 in Milk(producing districts)

(from Apr.2009 to Mar.2010)

Table (9)-1 : Strontium-90 and Cesium-137 in Milk(producing districts)

Location	Ash (w/v%)	Ca (g/L)	K (g/L)	Sr-90 (Bq/L)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/L)	Cs-137 (Bq/g K)
Jun.2009							
Yuni-machi,HOKKAIDO	0.739	1.14	1.65	0.038 ± 0.0089	0.034 ± 0.0078	0.028 ± 0.0059	0.017 ± 0.0036
Aug.2009							
Sapporo,HOKKAIDO	0.715	1.10	1.54	0.030 ± 0.0077	0.027 ± 0.0070	0.011 ± 0.0045	0.0070 ± 0.0030
Tobetsu-machi,HOKKAIDO	0.727	1.06	1.69	0.040 ± 0.0088	0.037 ± 0.0083	0.020 ± 0.0053	0.012 ± 0.0031
Morioka,IWATE	0.727	1.12	1.85	0.014 ± 0.0055	0.013 ± 0.0050	0.0083 ± 0.0042	0.0045 ± 0.0023
Akita,AKITA	0.726	1.07	1.69	0.029 ± 0.0078	0.027 ± 0.0073	0.057 ± 0.0075	0.034 ± 0.0045
Mito,IBARAKI	0.727	1.06	1.78	0.0000 ± 0.0085	0.0000 ± 0.0080	0.013 ± 0.0057	0.0073 ± 0.0032
Nasushiobara,TOCHIGI	0.752	1.11	1.56	0.015 ± 0.0066	0.014 ± 0.0060	0.0093 ± 0.0047	0.0060 ± 0.0030
Yachimata,CHIBA	0.745	1.12	1.54	0.017 ± 0.0065	0.015 ± 0.0058	0.0024 ± 0.0040	0.0015 ± 0.0026
Hachioji,TOKYO	0.712	1.13	1.47	0.011 ± 0.0060	0.0098 ± 0.0053	0.0000 ± 0.0037	0.0000 ± 0.0025
Fujisawa,KANAGAWA	0.757	1.20	1.52	0.013 ± 0.0064	0.011 ± 0.0053	0.0016 ± 0.0039	0.0010 ± 0.0025
Niigata,NIIGATA	0.759	1.12	1.75	0.024 ± 0.0074	0.022 ± 0.0066	0.013 ± 0.0048	0.0073 ± 0.0027
Tonami,TOYAMA	0.740	1.17	1.41	0.0070 ± 0.0062	0.0060 ± 0.0053	0.041 ± 0.0064	0.029 ± 0.0045
Hodatsushimizu-machi,ISHIKAWA	0.766	1.17	1.92	0.024 ± 0.0068	0.020 ± 0.0058	0.0069 ± 0.0045	0.0036 ± 0.0023
Katsuyama,FUKUI	0.736	1.07	1.64	0.0070 ± 0.0050	0.0065 ± 0.0046	0.014 ± 0.0049	0.0084 ± 0.0030
Hokuto,YAMANASHI	0.689	1.11	1.55	0.0061 ± 0.0063	0.0055 ± 0.0057	0.0063 ± 0.0044	0.0041 ± 0.0028
Shinano-machi,NAGANO	0.724	1.13	1.56	0.012 ± 0.0060	0.010 ± 0.0053	0.0047 ± 0.0041	0.0030 ± 0.0027
Hashima,GIFU	0.709	1.11	1.57	0.017 ± 0.0073	0.015 ± 0.0066	0.0078 ± 0.0044	0.0049 ± 0.0028
Taiki-machi,MIE	0.740	1.12	1.76	0.013 ± 0.0066	0.012 ± 0.0059	0.0078 ± 0.0045	0.0044 ± 0.0025
Takashima,SHIGA	0.748	1.15	1.56	0.020 ± 0.0068	0.017 ± 0.0059	0.0070 ± 0.0044	0.0044 ± 0.0028
Sakai,OSAKA	0.746	1.12	1.54	0.0060 ± 0.0051	0.0054 ± 0.0045	0.0094 ± 0.0045	0.0061 ± 0.0029
Minamiawaji,HYOGO	0.719	1.14	1.55	0.022 ± 0.0070	0.019 ± 0.0062	0.0016 ± 0.0038	0.0010 ± 0.0024
Uda,NARA	0.510	0.872	0.984	0.0045 ± 0.0061	0.0052 ± 0.0070	0.0085 ± 0.0040	0.0086 ± 0.0041
Kotoura-machi,TOTTORI	0.716	1.07	1.64	0.025 ± 0.0069	0.023 ± 0.0064	0.0068 ± 0.0041	0.0042 ± 0.0025
Matsue,SHIMANE	0.743	1.14	1.67	0.0043 ± 0.0068	0.0038 ± 0.0060	0.011 ± 0.0045	0.0065 ± 0.0027
Kitahiroshima-machi,HIROSHIMA	0.728	1.13	1.45	0.017 ± 0.0064	0.015 ± 0.0057	0.0071 ± 0.0044	0.0049 ± 0.0031
Kamiita-machi,TOKUSHIMA	0.717	1.12	1.61	0.014 ± 0.0059	0.012 ± 0.0053	0.0000 ± 0.0029	0.0000 ± 0.0018
Mitoyo,KAGAWA	0.722	1.10	1.75	0.021 ± 0.0071	0.019 ± 0.0065	0.0069 ± 0.0042	0.0040 ± 0.0024
Saga,SAGA	0.757	1.13	1.57	0.014 ± 0.0067	0.012 ± 0.0059	0.018 ± 0.0047	0.011 ± 0.0030

Location	Ash (w/v%)	Ca (g/L)	K (g/L)	Sr-90 (Bq/L)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/L)	Cs-137 (Bq/g K)
Koshi,KUMAMOTO	0.711	1.10	1.81	0.015 ± 0.0060	0.013 ± 0.0054	0.0085 ± 0.0046	0.0047 ± 0.0025
Taketa,OITA	0.754	1.16	1.54	0.012 ± 0.0069	0.011 ± 0.0059	0.024 ± 0.0054	0.016 ± 0.0035
Takaharu-machi,MIYAZAKI	0.775	1.21	1.87	0.0047 ± 0.0061	0.0039 ± 0.0051	0.0057 ± 0.0044	0.0030 ± 0.0024
Kanoya,KAGOSHIMA	0.738	1.10	1.64	0.024 ± 0.0074	0.022 ± 0.0068	0.0058 ± 0.0042	0.0036 ± 0.0026
Sep.2009							
Touon,EHIME	0.740	1.10	1.64	0.030 ± 0.0081	0.027 ± 0.0074	0.0020 ± 0.0040	0.0012 ± 0.0024
Kochi,KOCHI	0.744	1.09	1.54	0.025 ± 0.0076	0.023 ± 0.0070	0.015 ± 0.0044	0.0096 ± 0.0028
Chikuzen-machi,FUKUOKA	0.792	1.31	1.43	0.020 ± 0.0069	0.015 ± 0.0053	0.0046 ± 0.0041	0.0032 ± 0.0029
Oct.2009							
Aomori,AOMORI	0.746	1.17	1.69	0.0007 ± 0.0058	0.0006 ± 0.0050	0.0099 ± 0.0048	0.0059 ± 0.0029
Maebashi,GUNMA	0.649	1.05	1.32	0.0099 ± 0.0060	0.0095 ± 0.0057	0.0043 ± 0.0035	0.0032 ± 0.0026
Jan.2010							
Sasebo,NAGASAKI	0.727	1.16	1.46	0.013 ± 0.0068	0.011 ± 0.0058	0.010 ± 0.0041	0.0071 ± 0.0028

(9)-2

Strontium-90 and Cesium-137 in Milk(powdered milk)

(from Apr.2009 to Mar.2010)

Table (9)-2 : Strontium-90 and Cesium-137 in Milk(powdered milk)

Location	Ash (%)	Ca (g/kg)	K (g/kg)	Sr-90 (Bq/kg)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/kg)	Cs-137 (Bq/g K)
Apr.2009							
Sample C	7.97	12.2	17.7	0.30 ± 0.025	0.025 ± 0.0021	0.94 ± 0.036	0.053 ± 0.0020
May 2009							
Sample A	7.85	11.9	17.3	0.19 ± 0.022	0.016 ± 0.0019	0.12 ± 0.014	0.0070 ± 0.00080
Sample B	2.56	3.46	5.94	0.032 ± 0.0081	0.0091 ± 0.0023	0.35 ± 0.017	0.059 ± 0.0029
Sample D	2.51	3.61	5.82	0.024 ± 0.0075	0.0066 ± 0.0021	0.0098 ± 0.0046	0.0017 ± 0.00078
Sample E	3.85	6.51	7.97	0.065 ± 0.010	0.010 ± 0.0016	0.065 ± 0.0085	0.0081 ± 0.0011
Sample F	2.51	3.54	5.67	0.040 ± 0.0087	0.011 ± 0.0025	0.11 ± 0.010	0.019 ± 0.0018
Nov.2009							
Sample A	8.01	12.6	16.7	0.20 ± 0.022	0.016 ± 0.0017	0.29 ± 0.020	0.017 ± 0.0012
Sample B	2.59	3.73	5.54	0.021 ± 0.0067	0.0056 ± 0.0018	0.11 ± 0.010	0.020 ± 0.0018
Sample C	7.98	12.6	16.4	0.31 ± 0.026	0.025 ± 0.0020	0.87 ± 0.033	0.053 ± 0.0020
Sample D	2.38	3.76	4.76	0.014 ± 0.0063	0.0036 ± 0.0017	0.017 ± 0.0046	0.0035 ± 0.00097
Sample E	3.86	6.60	7.37	0.059 ± 0.013	0.0090 ± 0.0019	0.054 ± 0.0097	0.0073 ± 0.0013
Sample F	2.47	3.53	5.06	0.039 ± 0.0083	0.011 ± 0.0023	0.091 ± 0.0089	0.018 ± 0.0018

(10)

Strontium-90 and Cesium-137 in Vegetables(producing districts)

(from Apr.2009 to Mar.2010)

Table (10) : Strontium-90 and Cesium-137 in Vegetables(producing districts)

Location	Ash	Ca	K	Sr-90		Cs-137	
	(%)	(g/kg wet)	(g/kg wet)	(Bq/kg wet)	(Bq/g Ca)	(Bq/kg wet)	(Bq/g K)
(Leafy vegetables)							
May 2009							
Tahara,AICHI	1.59	0.493	5.44	0.0059 ± 0.0064	0.012 ± 0.013	0.0000 ± 0.0037	0.00000 ± 0.00069
Koshi,KUMAMOTO	2.04	0.337	8.30	0.031 ± 0.0095	0.092 ± 0.028	0.0049 ± 0.0042	0.00058 ± 0.00051
Uruma,OKINAWA	0.714	0.526	2.73	0.0034 ± 0.0057	0.006 ± 0.011	0.0023 ± 0.0036	0.0009 ± 0.0013
Jun.2009							
Niigata,NIIGATA	2.12	0.513	7.46	0.088 ± 0.014	0.17 ± 0.027	0.0008 ± 0.0038	0.00011 ± 0.00051
Oda,SHIMANE	1.10	0.617	3.94	0.22 ± 0.018	0.35 ± 0.030	0.057 ± 0.0078	0.014 ± 0.0020
Aug.2009							
Eniwa,HOKKAIDO	2.10	0.437	7.58	0.056 ± 0.011	0.13 ± 0.025	0.0082 ± 0.0046	0.0011 ± 0.00060
Gosyogawara,AOMORI	0.412	0.266	1.55	0.084 ± 0.012	0.32 ± 0.045	0.0041 ± 0.0038	0.0026 ± 0.0024
Oct.2009							
Oirase-machi,AOMORI	0.429	0.414	1.42	0.085 ± 0.012	0.21 ± 0.029	0.0032 ± 0.0037	0.0023 ± 0.0026
Morioka,IWATE	0.686	0.520	2.50	0.083 ± 0.011	0.16 ± 0.022	0.021 ± 0.0053	0.0084 ± 0.0021
Akita,AKITA	0.410	0.369	1.39	0.024 ± 0.0077	0.065 ± 0.021	0.0000 ± 0.0033	0.0000 ± 0.0024
Chiba,CHIBA	2.10	0.594	8.74	0.022 ± 0.0078	0.038 ± 0.013	0.0085 ± 0.0046	0.00097 ± 0.00053
Usa,OITA	1.97	0.837	8.10	0.014 ± 0.0062	0.017 ± 0.0074	0.0017 ± 0.0036	0.00020 ± 0.00044
Sep.2009							
Utsunomiya,TOCHIGI	1.81	1.14	5.81	0.27 ± 0.020	0.24 ± 0.017	0.39 ± 0.019	0.068 ± 0.0033
Nov.2009							
Fukushima,FUKUSHIMA	1.71	1.15	4.55	0.11 ± 0.012	0.094 ± 0.011	0.0025 ± 0.0042	0.00054 ± 0.00092
Toyama,TOYAMA	1.97	0.979	7.31	0.023 ± 0.0078	0.024 ± 0.0080	0.010 ± 0.0040	0.0014 ± 0.00055
Fukui,FUKUI	2.27	0.563	8.99	0.046 ± 0.0089	0.081 ± 0.016	0.0000 ± 0.0035	0.00000 ± 0.00039
Saku,NAGANO	2.40	0.905	9.65	0.023 ± 0.0074	0.026 ± 0.0082	0.013 ± 0.0048	0.0013 ± 0.00050
Gotenba,SHIZUOKA	1.86	0.554	6.79	0.032 ± 0.0081	0.058 ± 0.015	0.028 ± 0.0060	0.0042 ± 0.00089
Yokkaichi,MIE	1.40	0.619	5.78	0.022 ± 0.0073	0.035 ± 0.012	0.0017 ± 0.0039	0.00029 ± 0.00068
Yurihama-machi,TOTTORI	1.72	0.335	7.53	0.0045 ± 0.0066	0.013 ± 0.020	0.0000 ± 0.0031	0.00000 ± 0.00041
Takamatsu,KAGAWA	1.28	0.548	5.24	0.028 ± 0.0078	0.051 ± 0.014	0.0034 ± 0.0038	0.00064 ± 0.00073
Matsuyama,EHIME	1.21	0.392	3.32	0.012 ± 0.0067	0.029 ± 0.017	0.0055 ± 0.0045	0.0016 ± 0.0013

Location	Ash	Ca	K	Sr-90		Cs-137	
	(%)	(g/kg wet)	(g/kg wet)	(Bq/kg wet)	(Bq/g Ca)	(Bq/kg wet)	(Bq/g K)
Shime-machi,FUKUOKA	2.00	0.694	8.66	0.016 ± 0.0071	0.023 ± 0.010	0.0046 ± 0.0044	0.00053 ± 0.00051
Saga,SAGA	2.08	0.603	8.88	0.026 ± 0.0082	0.043 ± 0.014	0.016 ± 0.0057	0.0018 ± 0.00064
Dec.2009							
Mito,IBARAKI	2.02	1.05	8.79	0.14 ± 0.014	0.13 ± 0.014	0.020 ± 0.0053	0.0023 ± 0.00061
Maebashi,GUNMA	2.10	0.437	8.93	0.031 ± 0.0084	0.070 ± 0.019	0.0008 ± 0.0034	0.00009 ± 0.00038
Hokuto,YAMANASHI	2.04	1.49	6.81	0.35 ± 0.023	0.23 ± 0.015	0.0000 ± 0.0033	0.00000 ± 0.00049
Kakamigahara,GIFU	1.87	0.849	7.87	0.016 ± 0.0062	0.019 ± 0.0073	0.015 ± 0.0047	0.0018 ± 0.00060
Kasai,HYOGO	2.03	0.733	8.02	0.040 ± 0.0089	0.055 ± 0.012	0.0075 ± 0.0041	0.00093 ± 0.00051
Uda,NARA	2.10	0.395	8.95	0.026 ± 0.0073	0.066 ± 0.018	0.0000 ± 0.0034	0.00000 ± 0.00039
Shingu,WAKAYAMA	0.641	0.394	2.45	0.080 ± 0.011	0.20 ± 0.028	0.020 ± 0.0051	0.0080 ± 0.0021
Hiroshima,HIROSHIMA	1.93	1.37	6.68	0.16 ± 0.016	0.12 ± 0.012	0.0093 ± 0.0043	0.0014 ± 0.00065
Kochi,KOCHI	1.58	0.395	6.53	0.11 ± 0.014	0.27 ± 0.035	0.0008 ± 0.0045	0.00013 ± 0.00069
Kagoshima,KAGOSHIMA	1.81	0.536	4.27	0.012 ± 0.0063	0.022 ± 0.012	0.053 ± 0.0078	0.012 ± 0.0018
Jan.2010							
Yokosuka,KANAGAWA	2.33	0.652	10.1	0.025 ± 0.0082	0.038 ± 0.013	0.0040 ± 0.0037	0.00040 ± 0.00037
Kumatori-machi,OSAKA	0.650	0.415	2.54	0.026 ± 0.0086	0.064 ± 0.021	0.0000 ± 0.0042	0.0000 ± 0.0017
Nagato,YAMAGUCHI	1.78	0.653	6.76	0.055 ± 0.0092	0.084 ± 0.014	0.017 ± 0.0050	0.0025 ± 0.00074
Ishii-machi,TOKUSHIMA	1.57	0.545	6.09	0.0000 ± 0.0059	0.000 ± 0.011	0.0000 ± 0.0039	0.00000 ± 0.00064
Sasebo,NAGASAKI	2.12	0.515	7.06	0.083 ± 0.011	0.16 ± 0.021	1.1 ± 0.03	0.16 ± 0.004
Takanabe-machi,MIYAZAKI	1.94	0.735	7.41	0.11 ± 0.013	0.15 ± 0.018	0.014 ± 0.0048	0.0019 ± 0.00065
Mar.2010							
Azuchi-machi,SHIGA	1.42	0.598	5.58	0.051 ± 0.0093	0.086 ± 0.016	0.0004 ± 0.0033	0.00007 ± 0.00059
(Root vegetables)							
May 2009							
Tahara,AICHI	0.591	0.229	2.06	0.0074 ± 0.0066	0.032 ± 0.029	0.0000 ± 0.0036	0.0000 ± 0.0017
Uruma,OKINAWA	0.843	0.394	2.87	0.0035 ± 0.0060	0.009 ± 0.015	0.0008 ± 0.0035	0.0003 ± 0.0012
Jun.2009							
Oda,SHIMANE	0.688	0.154	2.58	0.12 ± 0.014	0.75 ± 0.092	0.015 ± 0.0049	0.0059 ± 0.0019
Koshi,KUMAMOTO	0.751	0.191	3.12	0.056 ± 0.011	0.29 ± 0.060	0.0024 ± 0.0039	0.0008 ± 0.0013
Jul.2009							
Kumatori-machi,OSAKA	0.423	0.133	1.53	0.016 ± 0.0077	0.12 ± 0.057	0.0031 ± 0.0039	0.0021 ± 0.0026
Aug.2009							
Eniwa,HOKKAIDO	0.356	0.194	1.12	0.089 ± 0.011	0.46 ± 0.059	0.13 ± 0.011	0.11 ± 0.010
Gosyogawara,AOMORI	0.908	0.0571	4.00	0.033 ± 0.0080	0.58 ± 0.14	0.0032 ± 0.0034	0.00079 ± 0.00086

Location	Ash	Ca	K	Sr-90		Cs-137	
	(%)	(g/kg wet)	(g/kg wet)	(Bq/kg wet)	(Bq/g Ca)	(Bq/kg wet)	(Bq/g K)
Utsunomiya,TOCHIGI	1.11	0.464	4.01	0.33 ± 0.022	0.71 ± 0.047	0.035 ± 0.0068	0.0087 ± 0.0017
Oct.2009							
Oirase-machi,AOMORI	0.483	0.138	1.96	0.017 ± 0.0068	0.12 ± 0.049	0.0025 ± 0.0035	0.0013 ± 0.0018
Morioka,IWATE	0.715	0.250	2.33	0.038 ± 0.0092	0.15 ± 0.037	0.0074 ± 0.0042	0.0032 ± 0.0018
Akita,AKITA	0.701	0.361	2.92	0.022 ± 0.0074	0.061 ± 0.021	0.0037 ± 0.0041	0.0013 ± 0.0014
Chiba,CHIBA	0.623	0.295	2.57	0.17 ± 0.016	0.59 ± 0.055	0.0088 ± 0.0048	0.0034 ± 0.0019
Takashima,SHIGA	0.640	0.146	2.62	0.13 ± 0.015	0.89 ± 0.10	0.0000 ± 0.0030	0.0000 ± 0.0012
Usa,OITA	0.565	0.203	2.40	0.0081 ± 0.0060	0.040 ± 0.030	0.0000 ± 0.0030	0.0000 ± 0.0013
Nov.2009							
Fukushima,FUKUSHIMA	0.471	0.186	2.02	0.041 ± 0.0089	0.22 ± 0.048	0.0016 ± 0.0034	0.0008 ± 0.0017
Niigata,NIIGATA	0.422	0.183	1.66	0.0021 ± 0.0057	0.011 ± 0.031	0.0000 ± 0.0036	0.0000 ± 0.0022
Imizu,TOYAMA	0.523	0.188	1.90	0.056 ± 0.010	0.30 ± 0.054	0.0004 ± 0.0030	0.0002 ± 0.0016
Awara,FUKUI	0.482	0.187	2.00	0.036 ± 0.0084	0.19 ± 0.045	0.0046 ± 0.0041	0.0023 ± 0.0021
Saku,NAGANO	0.592	0.242	2.39	0.0061 ± 0.0061	0.025 ± 0.025	0.0068 ± 0.0044	0.0029 ± 0.0018
Gotenba,SHIZUOKA	0.675	0.246	2.54	0.044 ± 0.0091	0.18 ± 0.037	0.035 ± 0.0063	0.014 ± 0.0025
Tottori,TOTTORI	0.477	0.163	1.92	0.068 ± 0.012	0.42 ± 0.077	0.0000 ± 0.0036	0.0000 ± 0.0019
Takamatsu,KAGAWA	0.512	0.183	1.94	0.0071 ± 0.0056	0.039 ± 0.031	0.0016 ± 0.0034	0.0008 ± 0.0018
Shime-machi,FUKUOKA	0.510	0.173	2.11	0.050 ± 0.0098	0.29 ± 0.056	0.0044 ± 0.0042	0.0021 ± 0.0020
Saga,SAGA	0.659	0.198	3.10	0.040 ± 0.0093	0.20 ± 0.047	0.0076 ± 0.0042	0.0024 ± 0.0014
Dec.2009							
Mito,IBARAKI	0.667	0.268	2.44	0.019 ± 0.0067	0.071 ± 0.025	0.0033 ± 0.0038	0.0014 ± 0.0015
Maebashi,GUNMA	0.544	0.176	2.17	0.028 ± 0.0080	0.16 ± 0.045	0.0008 ± 0.0033	0.0004 ± 0.0015
Hokuto,YAMANASHI	0.582	0.231	2.40	0.035 ± 0.0089	0.15 ± 0.038	0.0011 ± 0.0036	0.0005 ± 0.0015
Kakamigahara,GIFU	0.564	0.129	2.14	0.0008 ± 0.0051	0.006 ± 0.040	0.0073 ± 0.0041	0.0034 ± 0.0019
Hamamatsu,SHIZUOKA	0.584	0.230	2.11	0.017 ± 0.0067	0.075 ± 0.029	0.0095 ± 0.0042	0.0045 ± 0.0020
Meiwa-machi,MIE	0.735	0.319	3.01	0.11 ± 0.014	0.35 ± 0.045	0.0000 ± 0.0038	0.0000 ± 0.0013
Kasai,HYOGO	0.594	0.253	2.28	0.043 ± 0.0090	0.17 ± 0.036	0.0056 ± 0.0037	0.0025 ± 0.0016
Uda,NARA	0.591	0.148	2.33	0.022 ± 0.0069	0.15 ± 0.046	0.0000 ± 0.0031	0.0000 ± 0.0013
Shingu,WAKAYAMA	0.502	0.164	1.97	0.010 ± 0.0054	0.062 ± 0.033	0.0000 ± 0.0025	0.0000 ± 0.0013
Hiroshima,HIROSHIMA	0.513	0.233	1.92	0.054 ± 0.010	0.23 ± 0.045	0.0080 ± 0.0038	0.0042 ± 0.0020
Kochi,KOCHI	0.533	0.171	1.79	0.056 ± 0.011	0.33 ± 0.063	0.0064 ± 0.0048	0.0036 ± 0.0027
Ibusuki,KAGOSHIMA	0.719	0.175	2.62	0.0049 ± 0.0057	0.028 ± 0.032	0.0068 ± 0.0041	0.0026 ± 0.0016
Jan.2010							
Yokosuka,KANAGAWA	0.467	0.386	1.47	0.028 ± 0.0078	0.073 ± 0.020	0.0000 ± 0.0030	0.0000 ± 0.0020

Location	Ash	Ca	K	Sr-90		Cs-137	
	(%)	(g/kg wet)	(g/kg wet)	(Bq/kg wet)	(Bq/g Ca)	(Bq/kg wet)	(Bq/g K)
Nagato,YAMAGUCHI	0.736	0.268	2.49	0.041 ± 0.0097	0.15 ± 0.036	0.0033 ± 0.0046	0.0013 ± 0.0018
Ishii-machi,TOKUSHIMA	0.483	0.141	1.83	0.0084 ± 0.0075	0.059 ± 0.053	0.0000 ± 0.0040	0.0000 ± 0.0022
Sasebo,NAGASAKI	0.569	0.171	1.96	0.068 ± 0.010	0.40 ± 0.061	0.0054 ± 0.0037	0.0027 ± 0.0019
Takanabe-machi,MIYAZAKI	0.488	0.210	1.82	0.15 ± 0.015	0.69 ± 0.071	0.011 ± 0.0044	0.0058 ± 0.0024

(11) Strontium-90 and Cesium-137 in Tea (Japanese tea)
(from Apr.2009 to Mar.2010)
Table (11) : Strontium-90 and Cesium-137 in Tea (Japanese tea)

Location	Ash (%)	Ca (g/kg)	K (g/kg)	Sr-90 (Bq/kg)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/kg)	Cs-137 (Bq/g K)
Apr.2009							
Izu,SHIZUOKA*	1.49	0.682	5.27	0.10 ± 0.013	0.15 ± 0.019	0.041 ± 0.0071	0.0077 ± 0.0013
Mifune-machi,KUMAMOTO	5.16	2.34	17.6	0.11 ± 0.025	0.049 ± 0.011	0.000 ± 0.012	0.00000 ± 0.00069
Miyakonojo,MIYAZAKI	5.44	2.28	18.3	0.066 ± 0.026	0.029 ± 0.011	0.50 ± 0.041	0.027 ± 0.0023
May 2009							
Iruma,SAITAMA	5.08	2.09	17.4	0.091 ± 0.023	0.044 ± 0.011	0.17 ± 0.025	0.0099 ± 0.0014
Tokorozawa,SAITAMA	4.82	2.42	17.1	0.32 ± 0.043	0.13 ± 0.018	0.17 ± 0.025	0.010 ± 0.0015
Shirakawa-machi,GIFU	5.47	2.34	19.7	0.18 ± 0.036	0.076 ± 0.015	0.042 ± 0.019	0.0021 ± 0.00095
Ikeda-machi,GIFU	4.98	2.48	17.2	0.33 ± 0.045	0.13 ± 0.018	0.097 ± 0.022	0.0056 ± 0.0013
Iwata,SHIZUOKA*	1.44	0.793	4.72	0.029 ± 0.0078	0.036 ± 0.0098	0.0008 ± 0.0042	0.00018 ± 0.00088
Kameyama,MIE	5.44	3.30	18.4	0.36 ± 0.048	0.11 ± 0.015	0.015 ± 0.017	0.00084 ± 0.00090
Odai-machi,MIE	5.05	1.96	17.6	0.13 ± 0.030	0.066 ± 0.015	0.10 ± 0.022	0.0057 ± 0.0012
Uji,KYOTO	5.16	3.68	16.6	0.76 ± 0.061	0.21 ± 0.017	0.000 ± 0.012	0.00000 ± 0.00071
Wazuka-machi,KYOTO	5.93	2.81	20.8	0.29 ± 0.044	0.10 ± 0.016	0.079 ± 0.022	0.0038 ± 0.0011
Nara,NARA	5.31	3.64	17.7	0.36 ± 0.045	0.097 ± 0.012	0.12 ± 0.024	0.0068 ± 0.0014
Asagiri-machi,KUMAMOTO	5.11	2.35	17.0	0.14 ± 0.028	0.060 ± 0.012	0.15 ± 0.024	0.0089 ± 0.0014
Kawaminami-machi,MIYAZAKI	5.10	2.37	15.5	0.23 ± 0.036	0.097 ± 0.015	0.64 ± 0.044	0.041 ± 0.0029
Minamikyushu,KAGOSHIMA	5.23	2.42	18.1	0.13 ± 0.026	0.053 ± 0.011	0.69 ± 0.046	0.038 ± 0.0025
Jun.2009							
Nara,NARA	6.09	3.51	20.4	0.33 ± 0.048	0.095 ± 0.014	0.10 ± 0.025	0.0050 ± 0.0012
Nachikatsuura-machi,WAKAYAM	5.78	2.69	18.0	0.95 ± 0.072	0.35 ± 0.027	0.23 ± 0.031	0.013 ± 0.0017
Jul.2009							
Satsuma-machi,KAGOSHIMA	6.32	2.85	22.8	0.29 ± 0.043	0.10 ± 0.015	0.40 ± 0.040	0.018 ± 0.0018

* g/kg wet : Ca,K
Bq/kg wet : Sr-90,Cs-137

(12) Strontium-90 and Cesium-137 in Sea fish
(from Apr.2009 to Mar.2010)
Table (12) : Strontium-90 and Cesium-137 in Sea fish

Location	Ash	Ca	K	Sr-90		Cs-137	
	(%)	(g/kg wet)	(g/kg wet)	(Bq/kg wet)	(Bq/g Ca)	(Bq/kg wet)	(Bq/g K)
(Ammodytes personatus)							
Apr.2009							
Himeji,HYOGO	2.44	2.28	4.25	0.0000 ± 0.0051	0.0000 ± 0.0023	0.050 ± 0.0072	0.012 ± 0.0017
(Branchiostegus sp.)							
Nov.2009							
Nagasaki,NAGASAKI	1.39	1.16	3.98	0.0069 ± 0.0055	0.0060 ± 0.0047	0.12 ± 0.010	0.030 ± 0.0026
(Decapterus muroadsi)							
Hachijo-machi,TOKYO	1.76	1.80	4.10	0.0000 ± 0.0040	0.0000 ± 0.0023	0.12 ± 0.010	0.029 ± 0.0025
(Gadus macrocephalus)							
Jan.2010							
Kushiro,HOKKAIDO	1.36	0.427	3.79	0.017 ± 0.0067	0.041 ± 0.016	0.11 ± 0.010	0.029 ± 0.0026
(Hexagrammos otakii)							
Sep.2009							
Soma,FUKUSHIMA	1.31	0.479	3.37	0.0054 ± 0.0056	0.011 ± 0.012	0.089 ± 0.0090	0.027 ± 0.0027
(Hippoglossoides dubius)							
Nov.2009							
Sado,NIIGATA	1.50	0.621	3.86	0.012 ± 0.0050	0.020 ± 0.0081	0.11 ± 0.010	0.029 ± 0.0026
(Katsuwonus pelamis)							
May 2009							
Kuroshio-machi,KOCHI	1.22	0.0420	3.97	0.012 ± 0.0056	0.28 ± 0.13	0.17 ± 0.012	0.042 ± 0.0030
(Mugil cephalus cephalus)							
Nov.2009							
Setouchi,OKAYAMA	1.51	0.459	3.67	0.015 ± 0.0068	0.032 ± 0.015	0.041 ± 0.0066	0.011 ± 0.0018
(Oncorhynchus keta)							
Oct.2009							
Urakawa-machi,HOKKAIDO	1.33	0.426	3.99	0.0021 ± 0.0055	0.005 ± 0.013	0.063 ± 0.0082	0.016 ± 0.0020
(Pleuronectidae)							
Hiranai-machi,AOMORI	1.31	0.590	3.72	0.0076 ± 0.0046	0.013 ± 0.0077	0.084 ± 0.0087	0.022 ± 0.0023
Dec.2009							
Takamatsu,KAGAWA	3.11	7.65	3.23	0.016 ± 0.0068	0.0021 ± 0.00088	0.053 ± 0.0077	0.016 ± 0.0024

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90 (Bq/kg wet)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/kg wet)	Cs-137 (Bq/g K)
Mar.2010							
Otake,HIROSHIMA	1.41	1.59	2.44	0.0000 ± 0.0058	0.0000 ± 0.0037	0.037 ± 0.0067	0.015 ± 0.0028
(Scomber australasicus)							
Feb.2010							
Minamiboso,CHIBA	1.96	0.249	5.07	0.0000 ± 0.0059	0.000 ± 0.024	0.085 ± 0.0090	0.017 ± 0.0018
(Scomber sp.)							
Sep.2009							
Iyonada,EHIME	1.41	0.389	4.33	0.0000 ± 0.0049	0.000 ± 0.013	0.092 ± 0.0099	0.021 ± 0.0023
Feb.2010							
Sakaiminato,TOTTORI	1.32	0.843	3.17	0.0000 ± 0.0040	0.0000 ± 0.0047	0.080 ± 0.0088	0.025 ± 0.0028
(Sebastes inermis)							
Mar.2010							
Yamaguchi-bay,YAMAGUCHI	5.59	15.2	2.69	0.022 ± 0.0090	0.0014 ± 0.00059	0.058 ± 0.0080	0.022 ± 0.0030
(Sebastiscus marmoratus)							
Apr.2009							
Hamada,SHIMANE	6.34	19.7	2.61	0.012 ± 0.0080	0.00059 ± 0.00041	0.055 ± 0.0098	0.021 ± 0.0038
(Seriola quinqueradiata)							
Oct.2009							
Kaga,ISHIKAWA	1.51	0.438	4.38	0.0000 ± 0.0053	0.000 ± 0.012	0.14 ± 0.011	0.032 ± 0.0025
(Sillago sp.)							
May 2009							
Minamichita-machi,AICHI	4.90	7.99	3.45	0.0000 ± 0.0054	0.00000 ± 0.00067	0.058 ± 0.0082	0.017 ± 0.0024
(Sparidae)							
Apr.2009							
Kihoku-machi,MIE	1.68	0.260	5.17	0.0000 ± 0.0047	0.000 ± 0.018	0.10 ± 0.0095	0.019 ± 0.0018
Jul.2009							
Fukuoka,FUKUOKA	1.36	0.479	4.28	0.0000 ± 0.0048	0.0000 ± 0.0099	0.093 ± 0.0097	0.022 ± 0.0023
(Spratelloides gracilis)							
Nov.2009							
Akune,KAGOSHIMA	3.03	6.30	3.64	0.011 ± 0.0057	0.0017 ± 0.00091	0.099 ± 0.0093	0.027 ± 0.0026
(Trachurus japonicus)							
Oct.2009							
Odawara,KANAGAWA	1.37	0.118	4.26	0.013 ± 0.0063	0.11 ± 0.053	0.081 ± 0.0087	0.019 ± 0.0020

(13) Strontium-90 and Cesium-137 in Freshwater fish
(from Apr.2009 to Mar.2010)
Table (13) : Strontium-90 and Cesium-137 in Freshwater fish

Location	Ash	Ca	K	Sr-90		Cs-137	
	(%)	(g/kg wet)	(g/kg wet)	(Bq/kg wet)	(Bq/g Ca)	(Bq/kg wet)	(Bq/g K)
(Carassius sp.)							
Jul.2009							
Ishikari,HOKKAIDO	4.25	12.2	2.81	0.32 ± 0.021	0.026 ± 0.0017	0.022 ± 0.0059	0.0080 ± 0.0021
Nov.2009							
Niigata,NIIGATA	1.29	0.822	3.60	0.043 ± 0.0082	0.052 ± 0.010	0.10 ± 0.010	0.028 ± 0.0026
Dec.2009							
Wakasa-machi,FUKUI	1.37	1.10	3.00	0.051 ± 0.0096	0.047 ± 0.0087	0.12 ± 0.011	0.041 ± 0.0035
Uji,KYOTO	4.36	13.2	2.66	0.33 ± 0.022	0.025 ± 0.0017	0.0037 ± 0.0041	0.0014 ± 0.0015
(Cyprinus carpio)							
Oct.2009							
Syobara,HIROSHIMA	1.09	0.350	3.26	0.025 ± 0.0086	0.073 ± 0.024	0.070 ± 0.0084	0.022 ± 0.0026
(Hypomesus nipponensis)							
Nov.2009							
Suwa-lake,NAGANO	2.21	5.35	2.59	0.062 ± 0.0093	0.012 ± 0.0017	0.056 ± 0.0075	0.022 ± 0.0029
(Ictalurus punctatus)							
Jul.2009							
Kasumigaura-lake,IBARAKI	1.16	0.0957	3.70	0.0006 ± 0.0047	0.007 ± 0.049	0.46 ± 0.020	0.12 ± 0.005
(Salmo gairdneri)							
Oct.2009							
Kumagaya,SAITAMA	1.20	0.104	4.13	0.0000 ± 0.0053	0.000 ± 0.051	0.064 ± 0.0084	0.016 ± 0.0020
(Salvelinus leucomaenis)							
Sep.2009							
Fukushima,FUKUSHIMA	1.21	0.307	3.67	0.0000 ± 0.0050	0.000 ± 0.016	0.067 ± 0.0080	0.018 ± 0.0022

(14) Strontium-90 and Cesium-137 in Shellfish
(from Apr.2009 to Mar.2010)
Table (14) : Strontium-90 and Cesium-137 in Shellfish

Location	Ash	Ca	K	Sr-90		Cs-137	
	(%)	(g/kg wet)	(g/kg wet)	(Bq/kg wet)	(Bq/g Ca)	(Bq/kg wet)	(Bq/g K)
(Crassostrea gigas)							
Feb.2010							
Hatsukaichi,HIROSHIMA	1.98	0.558	2.34	0.0028 ± 0.0052	0.0050 ± 0.0093	0.0083 ± 0.0044	0.0035 ± 0.0019
(Mytilus edulis)							
Apr.2009							
Fukaura-machi,AOMORI	2.48	0.642	0.975	0.0056 ± 0.0052	0.0088 ± 0.0081	0.011 ± 0.0047	0.011 ± 0.0048
(Patinopecten yessoensis)							
Sep.2009							
Sarufutsu-mura,HOKKAIDO	1.73	0.158	2.87	0.0000 ± 0.0051	0.000 ± 0.032	0.016 ± 0.0057	0.0055 ± 0.0020
Oct.2009							
Hiranai-machi,AOMORI	2.22	0.282	2.89	0.012 ± 0.0060	0.043 ± 0.021	0.013 ± 0.0047	0.0045 ± 0.0016
Jan.2010							
Yamada-machi,IWATE	2.36	0.323	3.26	0.0086 ± 0.0063	0.027 ± 0.020	0.032 ± 0.0067	0.0099 ± 0.0021
(Tapes philippinarum)							
Apr.2009							
Ise,MIE	2.32	0.612	1.80	0.011 ± 0.0063	0.017 ± 0.010	0.0099 ± 0.0044	0.0055 ± 0.0025
May 2009							
Minamichita-machi,AICHI	1.99	0.838	3.16	0.0000 ± 0.0060	0.0000 ± 0.0072	0.021 ± 0.0059	0.0067 ± 0.0019
Isahaya,NAGASAKI	2.50	1.43	2.11	0.014 ± 0.0063	0.0097 ± 0.0044	0.013 ± 0.0046	0.0060 ± 0.0022
(Turbo(Batillus) cornutus)							
Apr.2009							
Sado,NIIGATA	2.26	0.599	3.28	0.0089 ± 0.0077	0.015 ± 0.013	0.024 ± 0.0063	0.0073 ± 0.0019
Jul.2009							
Sakata,YAMAGATA	2.53	0.693	2.61	0.013 ± 0.0062	0.018 ± 0.0089	0.017 ± 0.0052	0.0065 ± 0.0020
Kaga,ISHIKAWA	3.60	0.950	2.45	0.0006 ± 0.0047	0.0007 ± 0.0049	0.031 ± 0.0060	0.013 ± 0.0025

(15) Strontium-90 and Cesium-137 in Seaweeds
(from Apr.2009 to Mar.2010)
Table (15) : Strontium-90 and Cesium-137 in Seaweeds

Location	Ash	Ca	K	Sr-90		Cs-137	
	(%)	(g/kg wet)	(g/kg wet)	(Bq/kg wet)	(Bq/g Ca)	(Bq/kg wet)	(Bq/g K)
(Laminaria japonica)							
Yoichi-bay,HOKKAIDO	4.43	1.44	15.1	0.014 ± 0.0072	0.010 ± 0.0050	0.063 ± 0.0081	0.0042 ± 0.00054
Hirono-machi,IWATE	3.63	0.893	11.9	0.014 ± 0.0061	0.015 ± 0.0068	0.026 ± 0.0057	0.0022 ± 0.00048
(Psuedocardium sachalinense)							
Sep.2009							
Tomakomai,HOKKAIDO	1.54	0.171	3.40	0.0000 ± 0.0053	0.000 ± 0.031	0.0092 ± 0.0053	0.0027 ± 0.0016
(Sargassum horneri)							
May 2009							
Happo-machi,AKITA	3.39	1.47	9.29	0.046 ± 0.0089	0.032 ± 0.0061	0.030 ± 0.0061	0.0032 ± 0.00065
(Undaria pinnatifida)							
Apr.2009							
Fukaura-machi,AOMORI	2.08	0.582	4.97	0.013 ± 0.0066	0.023 ± 0.011	0.0008 ± 0.0035	0.00016 ± 0.00071
Sado,NIIGATA	3.36	0.759	9.81	0.024 ± 0.0074	0.031 ± 0.0097	0.018 ± 0.0050	0.0018 ± 0.00051
Kaga,ISHIKAWA	3.02	0.746	6.80	0.019 ± 0.0069	0.025 ± 0.0092	0.014 ± 0.0049	0.0020 ± 0.00073
May 2009							
Imabetsu-machi,AOMORI	2.70	0.740	6.21	0.017 ± 0.0067	0.023 ± 0.0091	0.014 ± 0.0047	0.0022 ± 0.00076
Jun.2009							
Sakata,YAMAGATA	3.16	1.08	5.94	0.028 ± 0.0075	0.026 ± 0.0069	0.020 ± 0.0052	0.0033 ± 0.00088
Feb.2010							
Minamichita-machi,AICHI	2.76	0.577	8.22	0.013 ± 0.0066	0.022 ± 0.011	0.017 ± 0.0051	0.0021 ± 0.00061
Hiroshima,HIROSHIMA	0.811	0.488	2.09	0.046 ± 0.0094	0.095 ± 0.019	0.0004 ± 0.0035	0.0002 ± 0.0017
Shimabara,NAGASAKI	2.70	0.564	8.91	0.015 ± 0.0070	0.027 ± 0.012	0.14 ± 0.011	0.015 ± 0.0012
Mar.2010							
Toba,MIE	2.43	0.724	5.90	0.029 ± 0.0079	0.040 ± 0.011	0.016 ± 0.0049	0.0028 ± 0.00084