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= Environmental and Dietary Materials =

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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, 5000cm² 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 m³ 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) Total diet

“Total diet” means whole dietary food for five persons in one day. The sample was dried at 105°C and was reduced to ashes at 450°C in porcelain dishes in an electric furnace.

(8) Rice

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

(9) 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.

(10) 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.

(11) 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.

(12) 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) Total diet	Semiannually	Daily amount for 5 persons
(8) Rice		
1. Producing districts	Yearly	3 kg (polished rice)
2. Consuming districts	Yearly	3 kg (polished rice)
(9) Milk		
1. Producing districts	Yearly	3 L
2. Consuming districts	Yearly	3 L
3. Powdered milk	Semiannually	2~3 kg
(10) Vegetables		
1. Producing districts	Semiannually	4 kg
2. Consuming districts	Semiannually	4 kg
(11) Tea	Yearly	500 g (manufactured tea)
(12) 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, total diet, 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 alkalized 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 alkalized 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. Chloroplatinic 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 chromatographic 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 total diet, 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.



Figure 1. Sampling Locations in Japan

7. Results

(1) Strontium-90 and Cesium-137 in Rain and dry fallout
(from Apr.2008 to Mar.2009)

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.2008								
Sapporo,HOKKAIDO	30	4.5	0.025	±	0.011	0.056	±	0.014
Aomori,AOMORI	30	16.5	0.018	±	0.015	0.071	±	0.012
Morioka,IWATE	30	32.8	0.005	±	0.014	0.074	±	0.016
Onagawa-machi,MIYAGI	29	98.0	0.009	±	0.012	0.030	±	0.013
Akita,AKITA	30	48.6	0.033	±	0.014	0.061	±	0.014
Yamagata,YAMAGATA	30	53.5	0.025	±	0.014	0.051	±	0.014
Okuma-machi,FUKUSHIMA	30	266.5	0.017	±	0.013	0.073	±	0.012
Hitachinaka,IBARAKI	30	174.0	0.032	±	0.016	0.043	±	0.011
Utsunomiya,TOCHIGI	30	163.6	0.021	±	0.011	0.016	±	0.0082
Maebashi,GUNMA	30	155.0	0.005	±	0.015	0.046	±	0.011
Saitama,SAITAMA	30	204.0	0.026	±	0.010	0.045	±	0.0076
Ichihara,CHIBA	30	197.9	0.014	±	0.014	0.045	±	0.015
Chiba,CHIBA	31	191.5	0.031	±	0.013	0.024	±	0.0087
Shinjuku,TOKYO	31	239.9	0.029	±	0.011	0.043	±	0.011
Chigasaki,KANAGAWA	30	228.7	0.035	±	0.015	0.033	±	0.010
Niigata,NIIGATA	30	46.2	0.000	±	0.013	0.058	±	0.012
Imizu,TOYAMA	31	97.7	0.018	±	0.013	0.049	±	0.011
Kanazawa,ISHIKAWA	30	86.5	0.028	±	0.014	0.034	±	0.0092
Fukui,FUKUI	29	126.5	0.038	±	0.063	0.14	±	0.071
Kofu,YAMANASHI	30	138.5	0.008	±	0.011	0.017	±	0.0095
Nagano,NAGANO	30	63.0	0.025	±	0.013	0.044	±	0.013
Kakamigahara,GIFU	30	233.4	0.024	±	0.013	0.017	±	0.0086
Shizuoka,SHIZUOKA	31	221.0	0.000	±	0.010	0.052	±	0.014
Nagoya,AICHI	30	222.2	0.005	±	0.011	0.011	±	0.0092
Yokkaichi,MIE	30	275.0	0.017	±	0.015	0.028	±	0.010
Otsu,SHIGA	30	168.2	0.024	±	0.012	0.039	±	0.013
Kyoto,KYOTO	29	166.0	0.040	±	0.012	0.033	±	0.0099
Osaka,OSAKA	30	135.5	0.020	±	0.011	0.039	±	0.013
Nara,NARA	31	196.0	0.013	±	0.012	0.011	±	0.0080

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)	
Wakayama,WAKAYAMA	30	129.0	0.092	± 0.018	0.050	± 0.014
Yurihama-machi,TOTTORI	30	128.0	0.022	± 0.013	0.21	± 0.052
Matsue,SHIMANE	30	132.3	0.025	± 0.0089	0.025	± 0.0060
Okayama,OKAYAMA	30	131.2	0.007	± 0.014	0.008	± 0.012
Hiroshima,HIROSHIMA	30	132.0	0.012	± 0.014	0.0018	± 0.0083
Yamaguchi,YAMAGUCHI	30	180.5	0.032	± 0.015	0.036	± 0.013
Ishii-machi,TOKUSHIMA	30	124.4	0.027	± 0.013	0.013	± 0.012
Takamatsu,KAGAWA	30	75.0	0.012	± 0.014	0.0022	± 0.0084
Matsuyama,EHIME	30	119.0	0.000	± 0.013	0.0064	± 0.0079
Kochi,KOCHI	30	223.9	0.016	± 0.012	0.018	± 0.012
Dazaifu,FUKUOKA	30	119.1	0.006	± 0.015	0.020	± 0.0096
Saga,SAGA	30	133.0	0.012	± 0.012	0.019	± 0.0080
Omura,NAGASAKI	30	100.0	0.015	± 0.013	0.014	± 0.013
Uto,KUMAMOTO	30	117.7	0.030	± 0.013	0.0012	± 0.0073
Oita,OITA	30	167.0	0.002	± 0.011	0.0096	± 0.0078
Miyazaki,MIYAZAKI	30	129.2	0.021	± 0.012	0.000	± 0.013
Kagoshima,KAGOSHIMA	30	112.0	0.023	± 0.012	0.012	± 0.011
Uruma,OKINAWA	30	58.5	0.016	± 0.013	0.003	± 0.012
May 2008						
Sapporo,HOKKAIDO	32	58.5	0.050	± 0.017	0.16	± 0.016
Aomori,AOMORI	30	41.5	0.039	± 0.016	0.032	± 0.011
Morioka,IWATE	32	84.2	0.025	± 0.013	0.054	± 0.015
Onagawa-machi,MIYAGI	32	90.0	0.023	± 0.014	0.015	± 0.012
Akita,AKITA	32	108.0	0.026	± 0.013	0.068	± 0.014
Yamagata,YAMAGATA	32	45.5	0.006	± 0.013	0.022	± 0.0096
Okuma-machi,FUKUSHIMA	32	128.0	0.019	± 0.013	0.023	± 0.0092
Hitachinaka,IBARAKI	32	152.0	0.018	± 0.012	0.028	± 0.013
Utsunomiya,TOCHIGI	32	207.1	0.021	± 0.011	0.029	± 0.0091
Maebashi,GUNMA	32	188.0	0.000	± 0.019	0.035	± 0.010
Saitama,SAITAMA	32	201.7	0.015	± 0.010	0.011	± 0.0056
Ichihara,CHIBA	32	242.3	0.024	± 0.013	0.022	± 0.015
Chiba,CHIBA	31	222.5	0.002	± 0.012	0.018	± 0.0088
Shinjuku,TOKYO	31	254.4	0.018	± 0.010	0.015	± 0.0089
Chigasaki,KANAGAWA	29	320.7	0.015	± 0.012	0.019	± 0.0087

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)			
Niigata, NIIGATA	32	74.3	0.003	±	0.016	0.002	±	0.010
Imizu, TOYAMA	32	115.6	0.014	±	0.013	0.0000	±	0.0077
Kanazawa, ISHIKAWA	30	133.0	0.009	±	0.012	0.012	±	0.012
Fukui, FUKUI	32	162.5	0.11	±	0.068	0.086	±	0.068
Kofu, YAMANASHI	32	138.0	0.012	±	0.012	0.0039	±	0.0084
Nagano, NAGANO	32	89.0	0.014	±	0.012	0.023	±	0.013
Kakamigahara, GIFU	30	282.6	0.014	±	0.015	0.015	±	0.0086
Shizuoka, SHIZUOKA	31	250.5	0.015	±	0.014	0.014	±	0.014
Nagoya, AICHI	32	215.8	0.020	±	0.014	0.039	±	0.010
Yokkaichi, MIE	32	330.0	0.0000	±	0.0091	0.029	±	0.012
Otsu, SHIGA	32	193.2	0.002	±	0.012	0.020	±	0.012
Kyoto, KYOTO	33	194.5	0.030	±	0.011	0.011	±	0.0088
Osaka, OSAKA	30	206.1	0.012	±	0.014	0.000	±	0.012
Kobe, HYOGO	30	168.6	0.012	±	0.012	0.016	±	0.012
Nara, NARA	31	329.1	0.000	±	0.010	0.0067	±	0.0076
Wakayama, WAKAYAMA	32	237.0	0.13	±	0.024	0.031	±	0.015
Yurihama-machi, TOTTORI	32	132.0	0.029	±	0.015	0.022	±	0.016
Matsue, SHIMANE	33	125.7	0.015	±	0.0092	0.015	±	0.0055
Okayama, OKAYAMA	32	137.0	0.000	±	0.015	0.018	±	0.013
Hiroshima, HIROSHIMA	32	191.1	0.026	±	0.015	0.012	±	0.0089
Yamaguchi, YAMAGUCHI	31	198.0	0.035	±	0.014	0.033	±	0.0097
Ishii-machi, TOKUSHIMA	32	172.0	0.022	±	0.014	0.018	±	0.013
Takamatsu, KAGAWA	32	123.5	0.012	±	0.012	0.033	±	0.013
Matsuyama, EHIME	32	170.5	0.019	±	0.015	0.010	±	0.0083
Kochi, KOCHI	29	447.7	0.000	±	0.014	0.0028	±	0.0087
Dazaifu, FUKUOKA	32	142.0	0.036	±	0.017	0.014	±	0.0095
Saga, SAGA	32	179.0	0.028	±	0.013	0.023	±	0.0084
Omura, NAGASAKI	32	213.5	0.025	±	0.014	0.010	±	0.012
Uto, KUMAMOTO	32	228.8	0.028	±	0.014	0.0048	±	0.0084
Oita, OITA	32	348.0	0.002	±	0.011	0.017	±	0.0083
Miyazaki, MIYAZAKI	32	269.7	0.031	±	0.013	0.011	±	0.014
Kagoshima, KAGOSHIMA	30	211.5	0.018	±	0.012	0.022	±	0.0091
Uruma, OKINAWA	32	98.5	0.000	±	0.017	0.000	±	0.011

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)	
Jun.2008						
Sapporo,HOKKAIDO	29	32.5	0.009	±	0.017	0.005 ± 0.014
Aomori,AOMORI	31	105.0	0.035	±	0.018	0.0099 ± 0.0092
Morioka,IWATE	29	48.0	0.045	±	0.013	0.0000 ± 0.0071
Onagawa-machi,MIYAGI	29	63.5	0.000	±	0.013	0.004 ± 0.012
Akita,AKITA	29	67.3	0.010	±	0.011	0.0000 ± 0.0077
Yamagata,YAMAGATA	29	52.5	0.002	±	0.012	0.0017 ± 0.0072
Okuma-machi,FUKUSHIMA	29	146.5	0.034	±	0.015	0.0075 ± 0.0084
Hitachinaka,IBARAKI	29	141.5	0.000	±	0.011	0.030 ± 0.014
Utsunomiya,TOCHIGI	29	136.7	0.016	±	0.010	0.0046 ± 0.0074
Maebashi,GUNMA	29	225.0	0.007	±	0.016	0.0000 ± 0.0070
Saitama,SAITAMA	29	196.2	0.006	±	0.010	0.0028 ± 0.0057
Ichihara,CHIBA	29	199.1	0.0079	±	0.0099	0.033 ± 0.013
Chiba,CHIBA	29	211.9	0.000	±	0.011	0.0041 ± 0.0072
Shinjuku,TOKYO	29	222.3	0.008	±	0.010	0.0059 ± 0.0083
Chigasaki,KANAGAWA	31	309.4	0.026	±	0.016	0.0006 ± 0.0079
Niigata,NIIGATA	29	54.7	0.000	±	0.010	0.0000 ± 0.0089
Imizu,TOYAMA	29	157.2	0.020	±	0.015	0.0028 ± 0.0078
Kanazawa,ISHIKAWA	31	150.5	0.039	±	0.015	0.018 ± 0.013
Fukui,FUKUI	29	135.0	0.11	±	0.056	0.000 ± 0.062
Kofu,YAMANASHI	29	191.5	0.005	±	0.012	0.006 ± 0.013
Nagano,NAGANO	29	120.0	0.007	±	0.012	0.000 ± 0.012
Kakamigahara,GIFU	31	326.5	0.000	±	0.010	0.015 ± 0.015
Shizuoka,SHIZUOKA	29	319.0	0.022	±	0.013	0.0000 ± 0.0072
Nagoya,AICHI	29	231.4	0.000	±	0.013	0.026 ± 0.014
Yokkaichi,MIE	29	445.0	0.023	±	0.013	0.0000 ± 0.0076
Otsu,SHIGA	29	311.5	0.005	±	0.014	0.000 ± 0.012
Kyoto,KYOTO	29	282.5	0.038	±	0.012	0.011 ± 0.0085
Osaka,OSAKA	32	190.4	0.016	±	0.015	0.005 ± 0.013
Kobe,HYOGO	31	144.8	0.002	±	0.012	0.000 ± 0.012
Nara,NARA	29	203.0	0.030	±	0.013	0.0084 ± 0.0071
Wakayama,WAKAYAMA	29	180.0	0.098	±	0.019	0.0000 ± 0.0070
Yurihama-machi,TOTTORI	29	215.0	0.008	±	0.012	0.000 ± 0.012
Matsue,SHIMANE	28	193.5	0.0072	±	0.0080	0.0097 ± 0.0055
Okayama,OKAYAMA	29	81.4	0.021	±	0.012	0.011 ± 0.0079

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)	
Hiroshima,HIROSHIMA	29	148.1	0.021	± 0.011	0.0072	± 0.0086
Yamaguchi,YAMAGUCHI	30	328.5	0.019	± 0.013	0.0000	± 0.0076
Ishii-machi,TOKUSHIMA	29	249.3	0.026	± 0.016	0.0000	± 0.0073
Takamatsu,KAGAWA	29	130.5	0.021	± 0.014	0.0055	± 0.0075
Matsuyama,EHIME	29	190.5	0.023	± 0.011	0.016	± 0.0077
Kochi,KOCHI	32	394.7	0.009	± 0.012	0.023	± 0.013
Dazaifu,FUKUOKA	29	391.2	0.032	± 0.012	0.028	± 0.014
Saga,SAGA	29	517.6	0.015	± 0.012	0.018	± 0.0078
Omura,NAGASAKI	29	428.0	0.022	± 0.015	0.0017	± 0.0075
Uto,KUMAMOTO	29	851.0	0.012	± 0.016	0.0000	± 0.0073
Miyazaki,MIYAZAKI	29	650.2	0.014	± 0.012	0.0029	± 0.0075
Kagoshima,KAGOSHIMA	31	475.0	0.021	± 0.011	0.0059	± 0.0079
Uruma,OKINAWA	29	96.0	0.028	± 0.013	0.0000	± 0.0084
Jul.2008						
Sapporo,HOKKAIDO	31	82.0	0.011	± 0.013	0.0062	± 0.0077
Aomori,AOMORI	31	124.5	0.015	± 0.016	0.0000	± 0.0082
Morioka,IWATE	31	193.8	0.034	± 0.012	0.018	± 0.0089
Onagawa-machi,MIYAGI	31	57.0	0.014	± 0.017	0.0040	± 0.0076
Akita,AKITA	31	171.7	0.027	± 0.012	0.034	± 0.010
Yamagata,YAMAGATA	31	187.5	0.0075	± 0.0097	0.000	± 0.012
Okuma-machi,FUKUSHIMA	31	85.5	0.015	± 0.013	0.012	± 0.0086
Hitachinaka,IBARAKI	31	31.0	0.025	± 0.015	0.0000	± 0.0068
Utsunomiya,TOCHIGI	31	137.4	0.001	± 0.012	0.0000	± 0.0080
Maebashi,GUNMA	31	169.5	0.033	± 0.016	0.0058	± 0.0074
Saitama,SAITAMA	31	84.4	0.014	± 0.0087	0.0000	± 0.0091
Ichihara,CHIBA	31	26.1	0.021	± 0.018	0.0011	± 0.0071
Chiba,CHIBA	31	59.5	0.000	± 0.012	0.0077	± 0.0076
Shinjuku,TOKYO	34	56.4	0.004	± 0.014	0.0006	± 0.0075
Chigasaki,KANAGAWA	32	16.1	0.056	± 0.014	0.012	± 0.013
Niigata,NIIGATA	31	78.8	0.033	± 0.012	0.000	± 0.012
Imizu,TOYAMA	31	184.6	0.041	± 0.017	0.0000	± 0.0064
Kanazawa,ISHIKAWA	31	200.5	0.018	± 0.010	0.020	± 0.013
Fukui,FUKUI	31	137.5	0.14	± 0.060	0.000	± 0.059
Kofu,YAMANASHI	31	73.0	0.007	± 0.012	0.0000	± 0.0081

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)	
Nagano,NAGANO	31	63.0	0.034	± 0.015	0.013	± 0.013
Kakamigahara,GIFU	31	131.9	0.002	± 0.011	0.0000	± 0.0073
Shizuoka,SHIZUOKA	31	145.5	0.031	± 0.013	0.0000	± 0.0069
Nagoya,AICHI	31	49.0	0.000	± 0.014	0.010	± 0.013
Yokkaichi,MIE	31	65.0	0.039	± 0.013	0.0099	± 0.0090
Otsu,SHIGA	31	115.6	0.014	± 0.011	0.0000	± 0.0082
Kyoto,KYOTO	34	183.5	0.026	± 0.011	0.011	± 0.0086
Osaka,OSAKA	31	141.1	0.000	± 0.015	0.014	± 0.012
Kobe,HYOGO	31	53.9	0.024	± 0.012	0.0000	± 0.0070
Nara,NARA	31	95.4	0.003	± 0.011	0.0017	± 0.0075
Wakayama,WAKAYAMA	31	54.5	0.19	± 0.023	0.015	± 0.0094
Yurihama-machi,TOTTORI	31	36.5	0.000	± 0.010	0.0000	± 0.0070
Matsue,SHIMANE	31	49.1	0.022	± 0.0095	0.0000	± 0.0044
Okayama,OKAYAMA	31	16.1	0.000	± 0.014	0.0000	± 0.0074
Hiroshima,HIROSHIMA	31	19.1	0.031	± 0.012	0.0050	± 0.0087
Yamaguchi,YAMAGUCHI	31	55.5	0.021	± 0.013	0.0000	± 0.0077
Ishii-machi,TOKUSHIMA	31	79.6	0.016	± 0.011	0.0000	± 0.0063
Takamatsu,KAGAWA	31	4.0	0.000	± 0.011	0.000	± 0.012
Matsuyama,EHIME	31	22.5	0.002	± 0.011	0.0000	± 0.0074
Kochi,KOCHI	31	41.8	0.022	± 0.019	0.013	± 0.012
Dazaifu,FUKUOKA	31	60.6	0.009	± 0.012	0.016	± 0.013
Saga,SAGA	31	41.5	0.0018	± 0.0087	0.006	± 0.012
Omura,NAGASAKI	31	80.5	0.000	± 0.013	0.0000	± 0.0067
Uto,KUMAMOTO	31	212.3	0.000	± 0.011	0.0023	± 0.0082
Oita,OITA	31	56.5	0.020	± 0.012	0.0000	± 0.0078
Miyazaki,MIYAZAKI	31	24.3	0.030	± 0.013	0.016	± 0.0084
Kagoshima,KAGOSHIMA	31	78.5	0.018	± 0.015	0.0000	± 0.0076
Uruma,OKINAWA	31	40.5	0.006	± 0.014	0.000	± 0.013
Aug.2008						
Sapporo,HOKKAIDO	31	53.5	0.002	± 0.012	0.0062	± 0.0077
Aomori,AOMORI	29	128.0	0.037	± 0.019	0.0000	± 0.0082
Morioka,IWATE	31	285.3	0.020	± 0.015	0.012	± 0.0085
Onagawa-machi,MIYAGI	31	379.0	0.000	± 0.016	0.0063	± 0.0078
Akita,AKITA	31	207.5	0.016	± 0.014	0.011	± 0.0078

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)	
Yamagata,YAMAGATA	31	244.0	0.005	± 0.012	0.005	± 0.012
Okuma-machi,FUKUSHIMA	31	255.0	0.016	± 0.017	0.0000	± 0.0077
Hitachinaka,IBARAKI	31	138.5	0.010	± 0.015	0.0023	± 0.0071
Utsunomiya,TOCHIGI	31	525.8	0.023	± 0.014	0.0017	± 0.0075
Maebashi,GUNMA	31	279.0	0.047	± 0.019	0.0071	± 0.0076
Saitama,SAITAMA	31	403.7	0.0008	± 0.0084	0.0000	± 0.0089
Ichihara,CHIBA	31	180.4	0.005	± 0.020	0.0000	± 0.0074
Chiba,CHIBA	31	201.2	0.000	± 0.011	0.0000	± 0.0067
Shinjuku,TOKYO	28	376.4	0.007	± 0.011	0.016	± 0.0088
Chigasaki,KANAGAWA	31	337.0	0.020	± 0.012	0.010	± 0.013
Niigata,NIIGATA	31	166.1	0.013	± 0.014	0.020	± 0.015
Imizu,TOYAMA	31	259.8	0.022	± 0.011	0.0017	± 0.0081
Kanazawa,ISHIKAWA	32	196.5	0.003	± 0.013	0.000	± 0.013
Fukui,FUKUI	31	146.5	0.14	± 0.085	0.000	± 0.064
Kofu,YAMANASHI	31	159.5	0.016	± 0.012	0.0000	± 0.0078
Nagano,NAGANO	31	177.5	0.018	± 0.013	0.000	± 0.011
Kakamigahara,GIFU	29	243.8	0.017	± 0.015	0.017	± 0.013
Nagoya,AICHI	31	338.0	0.012	± 0.016	0.000	± 0.012
Yokkaichi,MIE	31	200.0	0.043	± 0.016	0.0000	± 0.0061
Otsu,SHIGA	31	124.8	0.027	± 0.011	0.0000	± 0.0072
Kyoto,KYOTO	28	73.0	0.045	± 0.013	0.0000	± 0.0077
Osaka,OSAKA	31	97.4	0.011	± 0.014	0.012	± 0.013
Kobe,HYOGO	29	60.2	0.003	± 0.011	0.013	± 0.013
Nara,NARA	31	162.3	0.000	± 0.011	0.0017	± 0.0077
Wakayama,WAKAYAMA	31	70.0	0.23	± 0.026	0.000	± 0.012
Yurihama-machi,TOTTORI	31	163.5	0.000	± 0.012	0.0040	± 0.0076
Matsue,SHIMANE	32	119.0	0.018	± 0.0089	0.014	± 0.0059
Okayama,OKAYAMA	31	52.5	0.002	± 0.014	0.0000	± 0.0074
Hiroshima,HIROSHIMA	31	136.3	0.020	± 0.013	0.010	± 0.0084
Yamaguchi,YAMAGUCHI	31	178.0	0.015	± 0.013	0.0000	± 0.0067
Ishii-machi,TOKUSHIMA	31	156.5	0.009	± 0.012	0.0000	± 0.0068
Takamatsu,KAGAWA	31	85.0	0.013	± 0.014	0.009	± 0.013
Matsuyama,EHIME	31	69.5	0.041	± 0.014	0.0099	± 0.0083
Kochi,KOCHI	28	126.1	0.000	± 0.010	0.0000	± 0.0080

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km ²)			Cs-137 (MBq/km ²)		
Dazaifu,FUKUOKA	31	435.6	0.004	±	0.012	0.0000	±	0.0075
Saga,SAGA	31	234.2	0.027	±	0.011	0.0000	±	0.0080
Omura,NAGASAKI	31	218.0	0.009	±	0.012	0.0000	±	0.0073
Uto,KUMAMOTO	31	271.5	0.024	±	0.015	0.000	±	0.013
Oita,OITA	31	80.5	0.011	±	0.011	0.0000	±	0.0069
Miyazaki,MIYAZAKI	31	319.0	0.000	±	0.012	0.0012	±	0.0067
Kagoshima,KAGOSHIMA	29	193.5	0.004	±	0.015	0.0091	±	0.0091
Uruma,OKINAWA	31	67.5	0.030	±	0.018	0.012	±	0.014
Sep.2008								
Sapporo,HOKKAIDO	30	25.5	0.000	±	0.012	0.004	±	0.013
Aomori,AOMORI	32	64.0	0.020	±	0.014	0.016	±	0.0084
Morioka,IWATE	30	57.6	0.008	±	0.012	0.014	±	0.0081
Onagawa-machi,MIYAGI	30	124.5	0.021	±	0.011	0.0000	±	0.0079
Akita,AKITA	30	59.4	0.025	±	0.012	0.0063	±	0.0092
Yamagata,YAMAGATA	30	61.0	0.004	±	0.013	0.005	±	0.013
Okuma-machi,FUKUSHIMA	30	117.0	0.021	±	0.018	0.0000	±	0.0072
Hitachinaka,IBARAKI	30	164.5	0.000	±	0.012	0.004	±	0.014
Utsunomiya,TOCHIGI	30	158.0	0.0010	±	0.0099	0.0000	±	0.0074
Maebashi,GUNMA	30	171.0	0.000	±	0.012	0.0000	±	0.0068
Saitama,SAITAMA	30	125.3	0.029	±	0.010	0.0000	±	0.0093
Ichihara,CHIBA	30	231.8	0.010	±	0.013	0.015	±	0.0093
Chiba,CHIBA	30	253.1	0.014	±	0.013	0.0035	±	0.0071
Shinjuku,TOKYO	30	184.8	0.005	±	0.011	0.0000	±	0.0077
Chigasaki,KANAGAWA	29	259.0	0.032	±	0.011	0.0000	±	0.0076
Niigata,NIIGATA	30	172.0	0.002	±	0.011	0.0006	±	0.0072
Imizu,TOYAMA	30	183.7	0.025	±	0.012	0.0097	±	0.0087
Kanazawa,ISHIKAWA	29	92.5	0.013	±	0.015	0.000	±	0.013
Fukui,FUKUI	30	147.0	0.000	±	0.076	0.078	±	0.069
Kofu,YAMANASHI	31	153.0	0.002	±	0.011	0.0000	±	0.0081
Nagano,NAGANO	30	75.5	0.017	±	0.014	0.027	±	0.013
Kakamigahara,GIFU	32	277.4	0.000	±	0.010	0.0000	±	0.0073
Nagoya,AICHI	30	235.3	0.030	±	0.014	0.003	±	0.013
Yokkaichi,MIE	30	292.5	0.000	±	0.013	0.0041	±	0.0078
Otsu,SHIGA	30	165.6	0.018	±	0.011	0.0000	±	0.0073

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km ²)			Cs-137 (MBq/km ²)		
Kyoto,KYOTO	32	135.0	0.000	±	0.012	0.0000	±	0.0076
Osaka,OSAKA	30	176.4	0.023	±	0.016	0.0000	±	0.0070
Kobe,HYOGO	32	96.8	0.027	±	0.012	0.0058	±	0.0070
Nara,NARA	30	285.3	0.003	±	0.012	0.0063	±	0.0080
Wakayama,WAKAYAMA	30	122.0	0.19	±	0.028	0.0018	±	0.0079
Yurihama-machi,TOTTORI	30	73.5	0.011	±	0.014	0.0000	±	0.0071
Okayama,OKAYAMA	30	141.8	0.020	±	0.012	0.0034	±	0.0070
Hiroshima,HIROSHIMA	30	118.4	0.010	±	0.012	0.0086	±	0.0093
Yamaguchi,YAMAGUCHI	30	189.5	0.005	±	0.013	0.000	±	0.012
Ishii-machi,TOKUSHIMA	30	111.5	0.017	±	0.013	0.0000	±	0.0074
Takamatsu,KAGAWA	30	196.5	0.027	±	0.015	0.000	±	0.012
Matsuyama,EHIME	30	209.0	0.000	±	0.011	0.0028	±	0.0076
Kochi,KOCHI	33	215.7	0.023	±	0.013	0.0000	±	0.0078
Dazaifu,FUKUOKA	30	155.9	0.007	±	0.012	0.0000	±	0.0083
Saga,SAGA	30	116.6	0.0000	±	0.0084	0.0052	±	0.0091
Omura,NAGASAKI	30	210.5	0.018	±	0.011	0.0000	±	0.0063
Uto,KUMAMOTO	30	443.9	0.000	±	0.013	0.0000	±	0.0073
Miyazaki,MIYAZAKI	30	730.6	0.000	±	0.012	0.0000	±	0.0068
Kagoshima,KAGOSHIMA	32	365.0	0.023	±	0.016	0.0000	±	0.0074
Uruma,OKINAWA	30	193.5	0.017	±	0.018	0.007	±	0.013
Oct.2008								
Sapporo,HOKKAIDO	30	91.5	0.025	±	0.013	0.0023	±	0.0072
Aomori,AOMORI	31	67.0	0.002	±	0.012	0.010	±	0.0080
Morioka,IWATE	34	112.2	0.031	±	0.018	0.0000	±	0.0070
Onagawa-machi,MIYAGI	34	66.0	0.000	±	0.011	0.0000	±	0.0075
Akita,AKITA	34	148.2	0.031	±	0.013	0.0076	±	0.0088
Yamagata,YAMAGATA	34	84.5	0.012	±	0.015	0.0079	±	0.0079
Okuma-machi,FUKUSHIMA	34	156.5	0.012	±	0.012	0.0085	±	0.0073
Hitachinaka,IBARAKI	34	165.5	0.000	±	0.011	0.012	±	0.0082
Utsunomiya,TOCHIGI	34	141.8	0.015	±	0.012	0.0000	±	0.0074
Maebashi,GUNMA	34	63.5	0.024	±	0.015	0.0000	±	0.0071
Saitama,SAITAMA	34	104.6	0.0068	±	0.0076	0.0033	±	0.0059
Ichihara,CHIBA	34	148.7	0.037	±	0.018	0.000	±	0.014
Chiba,CHIBA	34	128.6	0.043	±	0.013	0.0018	±	0.0081

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km ²)			Cs-137 (MBq/km ²)		
Shinjuku,TOKYO	34	162.7	0.000	±	0.011	0.0000	±	0.0073
Chigasaki,KANAGAWA	31	191.4	0.001	±	0.012	0.0047	±	0.0085
Niigata,NIIGATA	34	133.3	0.005	±	0.012	0.020	±	0.0089
Imizu,TOYAMA	30	129.1	0.027	±	0.012	0.0028	±	0.0082
Kanazawa,ISHIKAWA	30	129.5	0.022	±	0.013	0.0000	±	0.0076
Fukui,FUKUI	34	134.0	0.085	±	0.077	0.000	±	0.040
Kofu,YAMANASHI	33	53.5	0.016	±	0.012	0.004	±	0.013
Nagano,NAGANO	34	31.5	0.021	±	0.015	0.015	±	0.013
Kakamigahara,GIFU	31	160.0	0.005	±	0.014	0.0000	±	0.0075
Shizuoka,SHIZUOKA	34	128.5	0.018	±	0.014	0.0087	±	0.0088
Nagoya,AICHI	34	99.9	0.014	±	0.013	0.0000	±	0.0076
Yokkaichi,MIE	34	171.5	0.0000	±	0.0099	0.0000	±	0.0073
Otsu,SHIGA	34	94.3	0.010	±	0.013	0.0000	±	0.0071
Kyoto,KYOTO	32	90.0	0.007	±	0.015	0.0058	±	0.0085
Osaka,OSAKA	30	58.0	0.030	±	0.017	0.000	±	0.012
Kobe,HYOGO	31	77.0	0.020	±	0.015	0.013	±	0.013
Nara,NARA	34	99.5	0.019	±	0.013	0.0000	±	0.0074
Wakayama,WAKAYAMA	35	94.5	0.11	±	0.024	0.0000	±	0.0076
Yurihama-machi,TOTTORI	30	77.0	0.001	±	0.014	0.0000	±	0.0065
Matsue,SHIMANE	30	41.9	0.0016	±	0.0076	0.012	±	0.0058
Okayama,OKAYAMA	34	79.3	0.000	±	0.010	0.0057	±	0.0073
Hiroshima,HIROSHIMA	34	50.5	0.027	±	0.012	0.15	±	0.015
Yamaguchi,YAMAGUCHI	34	23.5	0.044	±	0.017	0.012	±	0.0085
Ishii-machi,TOKUSHIMA	34	87.2	0.014	±	0.014	0.0000	±	0.0083
Takamatsu,KAGAWA	34	70.0	0.019	±	0.012	0.0017	±	0.0075
Matsuyama,EHIME	34	120.0	0.000	±	0.011	0.017	±	0.0086
Kochi,KOCHI	30	266.6	0.030	±	0.016	0.0000	±	0.0085
Dazaifu,FUKUOKA	34	20.4	0.000	±	0.012	0.0000	±	0.0076
Saga,SAGA	34	35.5	0.000	±	0.012	0.010	±	0.0090
Omura,NAGASAKI	34	33.5	0.010	±	0.010	0.0011	±	0.0078
Uto,KUMAMOTO	34	67.7	0.011	±	0.011	0.0000	±	0.0087
Oita,OITA	34	70.5	0.014	±	0.011	0.0000	±	0.0085
Miyazaki,MIYAZAKI	34	268.3	0.000	±	0.012	0.0000	±	0.0075
Kagoshima,KAGOSHIMA	31	184.0	0.000	±	0.011	0.0069	±	0.0078
Uruma,OKINAWA	34	92.5	0.008	±	0.014	0.0089	±	0.0078

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)	
Nov.2008						
Sapporo,HOKKAIDO	31	67.5	0.013	±	0.012	0.0011 ± 0.0072
Aomori,AOMORI	28	68.0	0.016	±	0.015	0.015 ± 0.0085
Morioka,IWATE	27	81.6	0.005	±	0.016	0.0000 ± 0.0075
Onagawa-machi,MIYAGI	27	68.5	0.016	±	0.014	0.0000 ± 0.0077
Akita,AKITA	27	203.0	0.005	±	0.013	0.0073 ± 0.0083
Yamagata,YAMAGATA	27	134.5	0.028	±	0.016	0.0000 ± 0.0075
Okuma-machi,FUKUSHIMA	27	59.0	0.010	±	0.012	0.0062 ± 0.0071
Hitachinaka,IBARAKI	27	69.0	0.002	±	0.011	0.0057 ± 0.0074
Utsunomiya,TOCHIGI	27	78.7	0.018	±	0.013	0.010 ± 0.0087
Maebashi,GUNMA	27	53.0	0.005	±	0.014	0.017 ± 0.0089
Saitama,SAITAMA	27	69.8	0.0019	±	0.0075	0.0000 ± 0.0056
Ichihara,CHIBA	27	78.0	0.015	±	0.017	0.0000 ± 0.0098
Chiba,CHIBA	27	69.2	0.000	±	0.012	0.0000 ± 0.0068
Shinjuku,TOKYO	27	96.5	0.035	±	0.015	0.0000 ± 0.0077
Chigasaki,KANAGAWA	31	77.6	0.047	±	0.014	0.0025 ± 0.0080
Niigata,NIIGATA	27	282.1	0.022	±	0.014	0.012 ± 0.0082
Imizu,TOYAMA	31	260.3	0.022	±	0.012	0.0074 ± 0.0086
Kanazawa,ISHIKAWA	32	266.5	0.005	±	0.012	0.0069 ± 0.0079
Fukui,FUKUI	27	228.0	0.056	±	0.069	0.052 ± 0.045
Kofu,YAMANASHI	27	38.0	0.007	±	0.012	0.000 ± 0.012
Nagano,NAGANO	27	41.0	0.018	±	0.012	0.0017 ± 0.0077
Kakamigahara,GIFU	28	69.9	0.012	±	0.011	0.0000 ± 0.0081
Shizuoka,SHIZUOKA	27	59.0	0.031	±	0.018	0.000 ± 0.010
Nagoya,AICHI	27	44.2	0.000	±	0.011	0.0000 ± 0.0074
Yokkaichi,MIE	27	59.0	0.021	±	0.011	0.0080 ± 0.0082
Otsu,SHIGA	27	65.9	0.000	±	0.011	0.0000 ± 0.0069
Kyoto,KYOTO	27	50.5	0.000	±	0.016	0.0046 ± 0.0078
Osaka,OSAKA	31	50.0	0.010	±	0.012	0.0000 ± 0.0063
Kobe,HYOGO	28	59.8	0.014	±	0.011	0.0000 ± 0.0079
Nara,NARA	27	84.7	0.019	±	0.012	0.0000 ± 0.0078
Wakayama,WAKAYAMA	26	87.0	0.16	±	0.028	0.0065 ± 0.0086
Yurihama-machi,TOTTORI	31	117.0	0.018	±	0.012	0.0000 ± 0.0076

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km ²)			Cs-137 (MBq/km ²)		
Matsue,SHIMANE	31	115.1	0.017	±	0.012	0.012	±	0.0059
Okayama,OKAYAMA	27	50.3	0.005	±	0.013	0.010	±	0.0076
Hiroshima,HIROSHIMA	27	61.7	0.016	±	0.012	0.026	±	0.010
Yamaguchi,YAMAGUCHI	27	82.0	0.060	±	0.022	0.0000	±	0.0073
Ishii-machi,TOKUSHIMA	27	73.8	0.021	±	0.016	0.0059	±	0.0092
Takamatsu,KAGAWA	27	66.5	0.025	±	0.014	0.0052	±	0.0082
Matsuyama,EHIME	27	90.0	0.000	±	0.013	0.0000	±	0.0071
Kochi,KOCHI	31	113.8	0.015	±	0.012	0.0000	±	0.0080
Dazaifu,FUKUOKA	27	76.3	0.000	±	0.012	0.0000	±	0.0080
Saga,SAGA	27	35.5	0.007	±	0.013	0.019	±	0.0071
Uto,KUMAMOTO	27	111.0	0.020	±	0.014	0.0000	±	0.0071
Oita,OITA	27	118.0	0.014	±	0.013	0.0000	±	0.0084
Miyazaki,MIYAZAKI	27	157.3	0.014	±	0.014	0.0000	±	0.0077
Kagoshima,KAGOSHIMA	28	153.5	0.016	±	0.014	0.0057	±	0.0077
Uruma,OKINAWA	27	109.5	0.006	±	0.016	0.0044	±	0.0078
Dec.2008								
Sapporo,HOKKAIDO	35	82.5	0.033	±	0.014	0.021	±	0.014
Aomori,AOMORI	28	147.0	0.016	±	0.013	0.014	±	0.0080
Morioka,IWATE	35	62.4	0.028	±	0.016	0.022	±	0.0090
Onagawa-machi,MIYAGI	35	37.5	0.018	±	0.016	0.0062	±	0.0084
Akita,AKITA	35	217.8	0.017	±	0.013	0.039	±	0.0092
Yamagata,YAMAGATA	35	113.0	0.019	±	0.015	0.0000	±	0.0094
Okuma-machi,FUKUSHIMA	35	37.5	0.000	±	0.010	0.015	±	0.0078
Hitachinaka,IBARAKI	35	93.0	0.007	±	0.012	0.0000	±	0.0077
Utsunomiya,TOCHIGI	35	40.6	0.014	±	0.013	0.0069	±	0.0086
Maebashi,GUNMA	35	34.5	0.009	±	0.017	0.0006	±	0.0077
Saitama,SAITAMA	35	65.9	0.0061	±	0.0082	0.0066	±	0.0061
Ichihara,CHIBA	35	81.4	0.000	±	0.014	0.003	±	0.012
Chiba,CHIBA	35	77.8	0.002	±	0.012	0.0045	±	0.0073
Shinjuku,TOKYO	35	76.6	0.019	±	0.015	0.0000	±	0.0076
Chigasaki,KANAGAWA	25	70.9	0.030	±	0.013	0.0000	±	0.0069
Niigata,NIIGATA	35	225.4	0.000	±	0.011	0.036	±	0.0087
Imizu,TOYAMA	25	276.7	0.042	±	0.014	0.0062	±	0.0085
Kanazawa,ISHIKAWA	24	244.0	0.013	±	0.014	0.0000	±	0.0078

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)	
Fukui,FUKUI	35	273.5	0.019	± 0.073	0.000	± 0.041
Kofu,YAMANASHI	35	48.0	0.034	± 0.014	0.0006	± 0.0076
Nagano,NAGANO	35	69.0	0.021	± 0.013	0.011	± 0.0081
Kakamigahara,GIFU	28	41.9	0.013	± 0.013	0.0000	± 0.0077
Shizuoka,SHIZUOKA	35	66.5	0.003	± 0.012	0.0000	± 0.0068
Nagoya,AICHI	35	15.0	0.025	± 0.014	0.0000	± 0.0067
Yokkaichi,MIE	35	40.0	0.010	± 0.012	0.0000	± 0.0080
Otsu,SHIGA	30	54.9	0.001	± 0.011	0.0018	± 0.0081
Kyoto,KYOTO	36	50.0	0.000	± 0.015	0.0000	± 0.0076
Osaka,OSAKA	35	55.2	0.005	± 0.013	0.012	± 0.0089
Kobe,HYOGO	28	32.9	0.002	± 0.011	0.0000	± 0.0064
Nara,NARA	35	57.1	0.020	± 0.013	0.0006	± 0.0079
Wakayama,WAKAYAMA	36	50.5	0.094	± 0.020	0.0000	± 0.0088
Yurihama-machi,TOTTORI	35	185.0	0.000	± 0.012	0.0006	± 0.0082
Okayama,OKAYAMA	35	13.4	0.014	± 0.015	0.0000	± 0.0080
Hiroshima,HIROSHIMA	35	59.8	0.027	± 0.013	0.0036	± 0.0087
Yamaguchi,YAMAGUCHI	35	77.0	0.000	± 0.011	0.014	± 0.0087
Ishii-machi,TOKUSHIMA	35	19.7	0.000	± 0.014	0.0036	± 0.0092
Takamatsu,KAGAWA	35	22.5	0.023	± 0.017	0.000	± 0.010
Matsuyama,EHIME	35	61.5	0.002	± 0.011	0.014	± 0.0084
Kochi,KOCHI	35	47.8	0.000	± 0.013	0.0000	± 0.0078
Dazaifu,FUKUOKA	35	87.8	0.006	± 0.011	0.0069	± 0.0092
Saga,SAGA	35	75.1	0.000	± 0.012	0.028	± 0.0079
Omura,NAGASAKI	35	113.0	0.036	± 0.014	0.0000	± 0.0080
Uto,KUMAMOTO	35	121.4	0.027	± 0.016	0.0000	± 0.0081
Oita,OITA	35	20.0	0.013	± 0.012	0.0000	± 0.0082
Miyazaki,MIYAZAKI	35	31.9	0.000	± 0.012	0.0000	± 0.0074
Kagoshima,KAGOSHIMA	28	41.0	0.025	± 0.015	0.0068	± 0.0077
Uruma,OKINAWA	35	19.5	0.004	± 0.011	0.0012	± 0.0094
Jan.2009						
Sapporo,HOKKAIDO	28	64.0	0.000	± 0.013	0.0000	± 0.0067
Aomori,AOMORI	35	123.5	0.000	± 0.011	0.0045	± 0.0089
Morioka,IWATE	28	81.8	0.018	± 0.012	0.0066	± 0.0076
Onagawa-machi,MIYAGI	28	112.5	0.000	± 0.014	0.0006	± 0.0079

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km ²)			Cs-137 (MBq/km ²)		
Akita,AKITA	28	165.4	0.000	±	0.011	0.017	±	0.0079
Yamagata,YAMAGATA	28	89.5	0.005	±	0.012	0.0000	±	0.0084
Okuma-machi,FUKUSHIMA	28	91.0	0.000	±	0.013	0.014	±	0.0086
Hitachinaka,IBARAKI	28	93.0	0.000	±	0.013	0.0011	±	0.0079
Utsunomiya,TOCHIGI	28	100.5	0.025	±	0.015	0.019	±	0.0092
Saitama,SAITAMA	28	132.1	0.0000	±	0.0086	0.019	±	0.0060
Ichihara,CHIBA	28	119.7	0.035	±	0.018	0.0028	±	0.0084
Chiba,CHIBA	28	120.8	0.000	±	0.012	0.0000	±	0.0079
Shinjuku,TOKYO	28	160.9	0.036	±	0.015	0.0057	±	0.0076
Chigasaki,KANAGAWA	34	58.1	0.015	±	0.012	0.0000	±	0.0079
Niigata,NIIGATA	28	251.3	0.000	±	0.010	0.017	±	0.0071
Imizu,TOYAMA	35	215.5	0.011	±	0.015	0.0000	±	0.0066
Kanazawa,ISHIKAWA	39	268.0	0.010	±	0.011	0.018	±	0.0093
Fukui,FUKUI	29	257.0	0.000	±	0.071	0.059	±	0.047
Kofu,YAMANASHI	28	88.0	0.024	±	0.013	0.0023	±	0.0080
Nagano,NAGANO	28	55.5	0.017	±	0.017	0.0000	±	0.0075
Kakamigahara,GIFU	35	103.9	0.000	±	0.013	0.0025	±	0.0092
Shizuoka,SHIZUOKA	28	129.0	0.030	±	0.014	0.0000	±	0.0067
Nagoya,AICHI	28	107.9	0.006	±	0.013	0.0012	±	0.0081
Yokkaichi,MIE	28	114.5	0.003	±	0.013	0.0000	±	0.0068
Otsu,SHIGA	33	94.3	0.007	±	0.012	0.0000	±	0.0078
Kyoto,KYOTO	28	73.0	0.015	±	0.018	0.0069	±	0.0080
Osaka,OSAKA	28	71.7	0.000	±	0.012	0.0000	±	0.0076
Kobe,HYOGO	35	31.9	0.006	±	0.012	0.0000	±	0.0069
Nara,NARA	28	139.8	0.008	±	0.013	0.0000	±	0.0076
Wakayama,WAKAYAMA	27	103.0	0.085	±	0.019	0.0000	±	0.0085
Yurihama-machi,TOTTORI	28	221.0	0.019	±	0.016	0.0012	±	0.0083
Matsue,SHIMANE	28	189.3	0.0080	±	0.0072	0.022	±	0.0070
Okayama,OKAYAMA	28	46.2	0.006	±	0.014	0.0000	±	0.0080
Hiroshima,HIROSHIMA	28	29.9	0.006	±	0.011	0.083	±	0.012
Yamaguchi,YAMAGUCHI	27	69.0	0.020	±	0.013	0.013	±	0.0078
Ishii-machi,TOKUSHIMA	28	68.0	0.025	±	0.014	0.0006	±	0.0070
Takamatsu,KAGAWA	28	49.0	0.008	±	0.014	0.0000	±	0.0078
Matsuyama,EHIME	28	65.0	0.028	±	0.014	0.0079	±	0.0086

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km ²)			Cs-137 (MBq/km ²)		
Kochi,KOCHI	25	55.3	0.017	±	0.015	0.0000	±	0.0074
Dazaifu,FUKUOKA	28	58.0	0.000	±	0.011	0.0000	±	0.0087
Saga,SAGA	28	41.0	0.000	±	0.013	0.012	±	0.0083
Omura,NAGASAKI	28	72.0	0.000	±	0.012	0.0064	±	0.0085
Uto,KUMAMOTO	28	69.7	0.009	±	0.016	0.0012	±	0.0072
Oita,OITA	28	70.0	0.003	±	0.012	0.0017	±	0.0080
Miyazaki,MIYAZAKI	28	116.7	0.007	±	0.013	0.0092	±	0.0073
Kagoshima,KAGOSHIMA	34	37.5	0.021	±	0.014	0.0017	±	0.0076
Uruma,OKINAWA	28	44.5	0.006	±	0.011	0.011	±	0.010
Feb.2009								
Sapporo,HOKKAIDO	28	74.0	0.000	±	0.010	0.017	±	0.0077
Aomori,AOMORI	28	102.0	0.008	±	0.012	0.026	±	0.010
Morioka,IWATE	28	78.5	0.022	±	0.017	0.020	±	0.0094
Onagawa-machi,MIYAGI	28	49.0	0.011	±	0.017	0.018	±	0.0092
Akita,AKITA	28	152.5	0.030	±	0.015	0.052	±	0.010
Yamagata,YAMAGATA	28	65.5	0.041	±	0.014	0.054	±	0.011
Okuma-machi,FUKUSHIMA	28	55.5	0.000	±	0.014	0.0035	±	0.0078
Hitachinaka,IBARAKI	28	42.0	0.011	±	0.012	0.028	±	0.0096
Utsunomiya,TOCHIGI	28	48.7	0.005	±	0.013	0.0035	±	0.0082
Maebashi,GUNMA	28	9.0	0.026	±	0.014	0.13	±	0.015
Saitama,SAITAMA	28	38.2	0.013	±	0.0084	0.048	±	0.0077
Ichihara,CHIBA	28	57.8	0.029	±	0.017	0.026	±	0.0099
Chiba,CHIBA	28	49.0	0.007	±	0.014	0.014	±	0.0088
Shinjuku,TOKYO	28	47.9	0.013	±	0.014	0.026	±	0.0089
Chigasaki,KANAGAWA	32	190.2	0.019	±	0.014	0.0000	±	0.0088
Niigata,NIIGATA	28	173.9	0.025	±	0.018	0.023	±	0.011
Imizu,TOYAMA	31	178.4	0.007	±	0.014	0.043	±	0.011
Kanazawa,ISHIKAWA	28	96.0	0.010	±	0.014	0.036	±	0.010
Fukui,FUKUI	27	121.0	0.098	±	0.082	0.027	±	0.043
Kofu,YAMANASHI	28	69.5	0.036	±	0.013	0.019	±	0.0087
Nagano,NAGANO	28	51.0	0.006	±	0.011	0.0097	±	0.0075
Shizuoka,SHIZUOKA	28	154.5	0.000	±	0.014	0.0093	±	0.0082
Nagoya,AICHI	28	73.5	0.000	±	0.013	0.0046	±	0.0083
Yokkaichi,MIE	28	99.5	0.012	±	0.014	0.030	±	0.0093

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km ²)			Cs-137 (MBq/km ²)		
Otsu,SHIGA	28	109.1	0.006	±	0.012	0.016	±	0.0077
Kyoto,KYOTO	28	107.5	0.028	±	0.019	0.014	±	0.0085
Osaka,OSAKA	25	87.9	0.005	±	0.014	0.013	±	0.0088
Kobe,HYOGO	28	136.8	0.005	±	0.011	0.0000	±	0.0090
Nara,NARA	28	185.6	0.000	±	0.012	0.0072	±	0.0084
Wakayama,WAKAYAMA	29	83.0	0.11	±	0.019	0.025	±	0.0085
Yurihama-machi,TOTTORI	28	119.5	0.040	±	0.019	0.036	±	0.011
Matsue,SHIMANE	28	87.2	0.046	±	0.011	0.096	±	0.010
Okayama,OKAYAMA	28	107.5	0.036	±	0.014	0.0074	±	0.0085
Hiroshima,HIROSHIMA	28	117.8	0.028	±	0.013	0.055	±	0.011
Yamaguchi,YAMAGUCHI	28	99.0	0.027	±	0.018	0.0000	±	0.0097
Ishii-machi,TOKUSHIMA	28	82.1	0.041	±	0.015	0.011	±	0.0078
Takamatsu,KAGAWA	28	77.0	0.014	±	0.014	0.015	±	0.0085
Matsuyama,EHIME	28	107.0	0.064	±	0.017	0.13	±	0.015
Kochi,KOCHI	31	197.5	0.028	±	0.016	0.015	±	0.0090
Dazaifu,FUKUOKA	28	107.5	0.029	±	0.015	0.0056	±	0.0090
Saga,SAGA	28	85.6	0.000	±	0.012	0.020	±	0.0088
Omura,NAGASAKI	28	133.5	0.008	±	0.015	0.0046	±	0.0082
Oita,OITA	28	101.0	0.015	±	0.013	0.0028	±	0.0080
Miyazaki,MIYAZAKI	28	198.7	0.000	±	0.012	0.012	±	0.0094
Kagoshima,KAGOSHIMA	29	212.0	0.010	±	0.011	0.020	±	0.0089
Uruma,OKINAWA	28	32.5	0.005	±	0.013	0.0000	±	0.0093
Mar.2009								
Sapporo,HOKKAIDO	30	52.0	0.045	±	0.015	0.034	±	0.010
Aomori,AOMORI	32	55.5	0.010	±	0.012	0.035	±	0.011
Morioka,IWATE	30	106.4	0.047	±	0.013	0.032	±	0.0092
Onagawa-machi,MIYAGI	30	73.5	0.019	±	0.017	0.0096	±	0.0086
Akita,AKITA	30	124.5	0.012	±	0.015	0.040	±	0.010
Yamagata,YAMAGATA	30	44.5	0.000	±	0.013	0.058	±	0.013
Okuma-machi,FUKUSHIMA	30	57.5	0.000	±	0.014	0.020	±	0.0089
Hitachinaka,IBARAKI	30	92.0	0.035	±	0.016	0.0012	±	0.0077
Utsunomiya,TOCHIGI	30	79.0	0.005	±	0.013	0.0000	±	0.0083
Maebashi,GUNMA	30	52.5	0.052	±	0.017	0.071	±	0.013
Saitama,SAITAMA	30	76.9	0.011	±	0.0076	0.011	±	0.0064

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)	
Ichihara,CHIBA	30	91.2	0.017	± 0.018	0.037	± 0.012
Chiba,CHIBA	30	89.8	0.026	± 0.016	0.011	± 0.0088
Shinjuku,TOKYO	30	97.9	0.028	± 0.016	0.017	± 0.0085
Chigasaki,KANAGAWA	29	118.5	0.012	± 0.011	0.0074	± 0.0085
Niigata,NIIGATA	30	133.5	0.026	± 0.015	0.052	± 0.011
Imizu,TOYAMA	30	137.9	0.032	± 0.016	0.066	± 0.012
Kanazawa,ISHIKAWA	27	197.0	0.037	± 0.014	0.046	± 0.011
Fukui,FUKUI	30	208.0	0.089	± 0.064	0.097	± 0.048
Kofu,YAMANASHI	30	68.5	0.027	± 0.013	0.0087	± 0.0080
Nagano,NAGANO	30	75.0	0.022	± 0.013	0.044	± 0.011
Kakamigahara,GIFU	32	210.7	0.020	± 0.016	0.026	± 0.010
Shizuoka,SHIZUOKA	30	301.5	0.016	± 0.014	0.022	± 0.0093
Nagoya,AICHI	30	124.2	0.019	± 0.013	0.0054	± 0.0086
Yokkaichi,MIE	30	140.0	0.000	± 0.013	0.029	± 0.0096
Otsu,SHIGA	30	131.5	0.007	± 0.010	0.026	± 0.0088
Kyoto,KYOTO	31	119.5	0.026	± 0.015	0.0076	± 0.0092
Osaka,OSAKA	32	145.4	0.023	± 0.013	0.010	± 0.0090
Kobe,HYOGO	32	117.9	0.018	± 0.012	0.026	± 0.010
Nara,NARA	30	178.1	0.026	± 0.014	0.0094	± 0.0086
Wakayama,WAKAYAMA	29	117.5	0.056	± 0.017	0.0093	± 0.0088
Yurihama-machi,TOTTORI	30	119.0	0.046	± 0.021	0.029	± 0.010
Matsue,SHIMANE	30	91.9	0.042	± 0.011	0.029	± 0.0072
Okayama,OKAYAMA	30	63.3	0.000	± 0.011	0.026	± 0.0095
Hiroshima,HIROSHIMA	30	88.0	0.013	± 0.013	0.073	± 0.011
Yamaguchi,YAMAGUCHI	31	121.0	0.009	± 0.011	0.011	± 0.0087
Ishii-machi,TOKUSHIMA	30	56.4	0.012	± 0.011	0.0080	± 0.0075
Takamatsu,KAGAWA	30	41.5	0.001	± 0.014	0.019	± 0.0085
Matsuyama,EHIME	30	88.5	0.019	± 0.015	0.0000	± 0.0080
Kochi,KOCHI	30	235.1	0.014	± 0.018	0.012	± 0.0097
Dazaifu,FUKUOKA	30	54.9	0.005	± 0.011	0.0011	± 0.0083
Saga,SAGA	30	94.7	0.042	± 0.018	0.020	± 0.0095
Omura,NAGASAKI	30	106.5	0.036	± 0.017	0.0070	± 0.0085
Uto,KUMAMOTO	30	136.8	0.010	± 0.011	0.038	± 0.010
Oita,OITA	30	78.0	0.003	± 0.012	0.015	± 0.0089

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)	
Miyazaki,MIYAZAKI	30	222.9	0.000	± 0.010	0.0011	± 0.0079
Kagoshima,KAGOSHIMA	32	225.0	0.024	± 0.013	0.011	± 0.0083
Uruma,OKINAWA	30	177.0	0.000	± 0.011	0.018	± 0.0085

(2) Strontium-90 and Cesium-137 in Airborne dust
(from Jul.2008 to Mar.2009)

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.2008~Jun.2008										
Morioka,IWATE	04	-	06	10368.0	0.00015	±	0.00051	0.0013	±	0.00036
Akita,AKITA	04	-	06	10800.0	0.0013	±	0.00062	0.00031	±	0.00031
Yamagata,YAMAGATA	04	-	06	12960.0	0.0012	±	0.00054	0.00055	±	0.00027
Okuma-machi,FUKUSHIMA	04	-	06	10000.0	0.0010	±	0.00049	0.00009	±	0.00034
Hitachinaka,IBARAKI	04	-	06	10604.5	0.00044	±	0.00050	0.00033	±	0.00031
Utsunomiya,TOCHIGI	04	-	06	14680.9	0.00013	±	0.00047	0.00074	±	0.00026
Maebashi,GUNMA	04	-	06	9998.4	0.00026	±	0.00069	0.00032	±	0.00036
Saitama,SAITAMA	04	-	06	12959.1	0.00069	±	0.00044	0.00043	±	0.00027
Ichihara,CHIBA	04	-	06	10339.2	0.00000	±	0.00058	0.00000	±	0.00030
Chigasaki,KANAGAWA	04	-	06	12095.2	0.00000	±	0.00041	0.00041	±	0.00027
Niigata,NIIGATA	04	-	06	9936.0	0.00063	±	0.00063	0.00000	±	0.00029
Imizu,TOYAMA	04	-	06	18004.7	0.00050	±	0.00035	0.00058	±	0.00019
Fukui,FUKUI	04	-	06	12959.1	0.00048	±	0.00048	0.00082	±	0.00030
Kofu,YAMANASHI	04	-	06	10367.1	0.00091	±	0.00062	0.00038	±	0.00031
Nagano,NAGANO	04	-	06	11177.4	0.0014	±	0.00059	0.00043	±	0.00031
Kakamigahara,GIFU	04	-	06	11997.0	0.0014	±	0.00051	0.00002	±	0.00027
Omaezaki,SHIZUOKA	04	-	06	10073.0	0.0012	±	0.00062	0.00037	±	0.00032
Nagoya,AICHI	04	-	06	10366.0	0.0017	±	0.00072	0.00030	±	0.00031
Yokkaichi,MIE	04	-	06	14326.5	0.00024	±	0.00037	0.00020	±	0.00023
Otsu,SHIGA	04	-	06	10082.3	0.00058	±	0.00058	0.00019	±	0.00030
Kyoto,KYOTO	04	-	06	10335.5	0.00085	±	0.00056	0.00057	±	0.00033
Osaka,OSAKA	04	-	06	15191.2	0.0011	±	0.00048	0.00000	±	0.00019
Kobe,HYOGO	04	-	06	10367.4	0.00000	±	0.00053	0.00044	±	0.00031
Nara,NARA	04	-	06	10510.1	0.00074	±	0.00065	0.00028	±	0.00031
Wakayama,WAKAYAMA	04	-	06	11190.8	0.00067	±	0.00049	0.00000	±	0.00027
Yurihama-machi,TOTTORI	04	-	06	14340.0	0.00059	±	0.00041	0.00017	±	0.00023
Okayama,OKAYAMA	04	-	06	12672.0	0.0011	±	0.00059	0.00000	±	0.00026
Hiroshima,HIROSHIMA	04	-	06	10297.4	0.0013	±	0.00059	0.00057	±	0.00034
Yamaguchi,YAMAGUCHI	04	-	06	22028.6	0.00035	±	0.00030	0.00008	±	0.00014
Tokushima,TOKUSHIMA	04	-	06	10380.0	0.00055	±	0.00068	0.00037	±	0.00032

Location	Sampling Period		Absorption (m ³)	Sr-90 (mBq/m ³)			Cs-137 (mBq/m ³)			
Takamatsu,KAGAWA	04	- 06	10044.5	0.0014	±	0.00061	0.00000	±	0.00029	
Saga,SAGA	04	- 06	10313.8	0.00000	±	0.00052	0.00089	±	0.00034	
Omura,NAGASAKI	04	- 06	8640.0	0.00019	±	0.00066	0.00000	±	0.00033	
Uto,KUMAMOTO	04	- 06	14037.1	0.00092	±	0.00047	0.00030	±	0.00023	
Oita,OITA	04	- 06	10344.0	0.0012	±	0.00071	0.00006	±	0.00030	
Miyazaki,MIYAZAKI	04	- 06	14058.0	0.00000	±	0.00039	0.00000	±	0.00020	
Nanjo,OKINAWA	04	- 06	10691.5	0.0014	±	0.00059	0.00019	±	0.00031	
Jul.2008~Sep.2008										
Morioka,IWATE	07	- 09	10368.0	0.00043	±	0.00059	0.00053	±	0.00034	
Akita,AKITA	07	- 09	10800.0	0.00068	±	0.00056	0.00052	±	0.00033	
Yamagata,YAMAGATA	07	- 09	12960.0	0.00023	±	0.00038	0.00000	±	0.00025	
Okuma-machi,FUKUSHIMA	07	- 09	10000.0	0.0010	±	0.00051	0.00000	±	0.00033	
Hitachinaka,IBARAKI	07	- 09	11059.4	0.00023	±	0.00050	0.00000	±	0.00025	
Utsunomiya,TOCHIGI	07	- 09	14443.3	0.0013	±	0.00044	0.00024	±	0.00022	
Maebashi,GUNMA	07	- 09	9998.4	0.00000	±	0.00084	0.00000	±	0.00030	
Saitama,SAITAMA	07	- 09	12959.1	0.00091	±	0.00050	0.00000	±	0.00024	
Ichihara,CHIBA	07	- 09	10310.4	0.00036	±	0.00065	0.00000	±	0.00032	
Chigasaki,KANAGAWA	07	- 09	12095.2	0.00036	±	0.00048	0.00000	±	0.00026	
Niigata,NIIGATA	07	- 09	9936.0	0.00047	±	0.00058	0.00000	±	0.00027	
Imizu,TOYAMA	07	- 09	18015.6	0.00000	±	0.00026	0.00016	±	0.00017	
Fukui,FUKUI	07	- 09	12959.1	0.00022	±	0.00037	0.00015	±	0.00026	
Kofu,YAMANASHI	07	- 09	10367.1	0.00037	±	0.00057	0.00062	±	0.00032	
Nagano,NAGANO	07	- 09	11177.4	0.00000	±	0.00060	0.00056	±	0.00031	
Kakamigahara,GIFU	07	- 09	12147.9	0.00000	±	0.00059	0.00026	±	0.00027	
Omaezaki,SHIZUOKA	07	- 09	10349.0	0.0012	±	0.00062	0.00000	±	0.00027	
Nagoya,AICHI	07	- 09	10366.2	0.00062	±	0.00075	0.00017	±	0.00031	
Yokkaichi,MIE	07	- 09	14441.8	0.00000	±	0.00041	0.00000	±	0.00021	
Otsu,SHIGA	07	- 09	10128.7	0.00049	±	0.00060	0.00000	±	0.00027	
Kyoto,KYOTO	07	- 09	10350.0	0.00066	±	0.00055	0.00036	±	0.00032	
Osaka,OSAKA	07	- 09	15249.5	0.00022	±	0.00037	0.00000	±	0.00019	
Kobe,HYOGO	07	- 09	10367.4	0.00000	±	0.00053	0.00000	±	0.00030	
Nara,NARA	07	- 09	10489.9	0.0023	±	0.00066	0.00000	±	0.00029	
Wakayama,WAKAYAMA	07	- 09	11160.2	0.0026	±	0.00066	0.00002	±	0.00029	
Yurihama-machi,TOTTORI	07	- 09	14340.0	0.00045	±	0.00040	0.00000	±	0.00019	

Location	Sampling Period		Absorption (m ³)	Sr-90 (mBq/m ³)			Cs-137 (mBq/m ³)			
Okayama,OKAYAMA	07	- 09	13507.2	0.00055	±	0.00036	0.00000	±	0.00021	
Hiroshima,HIROSHIMA	07	- 09	10200.5	0.00085	±	0.00053	0.00000	±	0.00028	
Yamaguchi,YAMAGUCHI	07	- 09	21911.9	0.00033	±	0.00027	0.00000	±	0.00014	
Tokushima,TOKUSHIMA	07	- 09	10380.0	0.00000	±	0.00055	0.00000	±	0.00030	
Takamatsu,KAGAWA	07	- 09	9996.1	0.00028	±	0.00060	0.00046	±	0.00032	
Saga,SAGA	07	- 09	10124.7	0.00000	±	0.00049	0.00000	±	0.00029	
Omura,NAGASAKI	07	- 09	8640.0	0.0011	±	0.00072	0.00000	±	0.00032	
Uto,KUMAMOTO	07	- 09	14827.9	0.00059	±	0.00048	0.00000	±	0.00021	
Oita,OITA	07	- 09	10195.2	0.00087	±	0.00053	0.00000	±	0.00028	
Miyazaki,MIYAZAKI	07	- 09	13233.0	0.00025	±	0.00054	0.00017	±	0.00023	
Nanjo,OKINAWA	07	- 09	14250.4	0.00000	±	0.00052	0.00000	±	0.00021	
Oct.2008~Dec.2008										
Morioka,IWATE	10	- 12	10368.0	0.00025	±	0.00055	0.00004	±	0.00030	
Akita,AKITA	10	- 12	10800.0	0.0018	±	0.00058	0.00000	±	0.00027	
Yamagata,YAMAGATA	10	- 12	12960.0	0.00000	±	0.00043	0.00000	±	0.00022	
Okuma-machi,FUKUSHIMA	10	- 12	10000.0	0.00040	±	0.00052	0.00044	±	0.00033	
Hitachinaka,IBARAKI	10	- 12	11203.7	0.00000	±	0.00047	0.00000	±	0.00026	
Utsunomiya,TOCHIGI	10	- 12	15239.4	0.00012	±	0.00041	0.00010	±	0.00018	
Maebashi,GUNMA	10	- 12	9998.4	0.00027	±	0.00084	0.00000	±	0.00028	
Saitama,SAITAMA	10	- 12	12959.1	0.00081	±	0.00051	0.00000	±	0.00020	
Ichihara,CHIBA	10	- 12	10353.6	0.00054	±	0.00058	0.00000	±	0.00028	
Chigasaki,KANAGAWA	10	- 12	12095.2	0.00014	±	0.00046	0.00000	±	0.00024	
Niigata,NIIGATA	10	- 12	9936.0	0.00050	±	0.00061	0.00000	±	0.00026	
Imizu,TOYAMA	10	- 12	18007.2	0.00000	±	0.00026	0.00000	±	0.00015	
Fukui,FUKUI	10	- 12	12959.1	0.00029	±	0.00046	0.00007	±	0.00023	
Kofu,YAMANASHI	10	- 12	10367.1	0.0011	±	0.00066	0.00013	±	0.00029	
Nagano,NAGANO	10	- 12	11177.4	0.0012	±	0.00058	0.00000	±	0.00024	
Kakamigahara,GIFU	10	- 12	11977.3	0.00016	±	0.00049	0.00000	±	0.00023	
Omaezaki,SHIZUOKA	10	- 12	10143.0	0.00079	±	0.00062	0.00036	±	0.00032	
Nagoya,AICHI	10	- 12	10366.2	0.00000	±	0.00050	0.00022	±	0.00029	
Yokkaichi,MIE	10	- 12	14320.7	0.00069	±	0.00041	0.00000	±	0.00021	
Otsu,SHIGA	10	- 12	10139.4	0.0014	±	0.00061	0.00000	±	0.00029	
Kyoto,KYOTO	10	- 12	10364.4	0.00047	±	0.00050	0.00004	±	0.00033	
Osaka,OSAKA	10	- 12	14659.2	0.00093	±	0.00038	0.00000	±	0.00019	

Location	Sampling Period		Absorption (m ³)	Sr-90 (mBq/m ³)			Cs-137 (mBq/m ³)			
Kobe,HYOGO	10	- 12	10367.4	0.00094	±	0.00052	0.00000	±	0.00030	
Nara,NARA	10	- 12	10474.7	0.00006	±	0.00059	0.00039	±	0.00029	
Yurihama-machi,TOTTORI	10	- 12	14340.0	0.00000	±	0.00037	0.00014	±	0.00019	
Okayama,OKAYAMA	10	- 12	13680.0	0.0011	±	0.00053	0.00000	±	0.00021	
Hiroshima,HIROSHIMA	10	- 12	10200.5	0.0012	±	0.00066	0.00013	±	0.00029	
Yamaguchi,YAMAGUCHI	10	- 12	21735.9	0.00017	±	0.00027	0.00012	±	0.00014	
Tokushima,TOKUSHIMA	10	- 12	9960.0	0.00072	±	0.00056	0.00000	±	0.00026	
Takamatsu,KAGAWA	10	- 12	10009.5	0.00066	±	0.00062	0.00000	±	0.00026	
Saga,SAGA	10	- 12	10124.9	0.00000	±	0.00062	0.00000	±	0.00028	
Omura,NAGASAKI	10	- 12	8640.0	0.00000	±	0.00060	0.00026	±	0.00035	
Uto,KUMAMOTO	10	- 12	14759.6	0.00018	±	0.00039	0.00042	±	0.00022	
Oita,OITA	10	- 12	10393.2	0.00000	±	0.00056	0.00000	±	0.00025	
Miyazaki,MIYAZAKI	10	- 12	13282.0	0.00079	±	0.00058	0.00042	±	0.00025	
Nanjo,OKINAWA	10	- 12	12990.0	0.00048	±	0.00054	0.00000	±	0.00023	
Jan.2009~Mar.2009										
Morioka,IWATE	01	- 03	10368.0	0.00025	±	0.00056	0.00000	±	0.00032	
Akita,AKITA	01	- 03	10800.0	0.00082	±	0.00052	0.00000	±	0.00028	
Yamagata,YAMAGATA	01	- 03	12960.0	0.00000	±	0.00034	0.00000	±	0.00025	
Okuma-machi,FUKUSHIMA	01	- 03	10000.0	0.0016	±	0.00060	0.00002	±	0.00030	
Hitachinaka,IBARAKI	01	- 03	11705.7	0.00099	±	0.00050	0.00000	±	0.00029	
Maebashi,GUNMA	01	- 03	9998.4	0.00000	±	0.00082	0.00000	±	0.00028	
Saitama,SAITAMA	01	- 03	12959.1	0.00004	±	0.00047	0.00033	±	0.00025	
Ichihara,CHIBA	01	- 03	10317.6	0.00031	±	0.00069	0.00000	±	0.00024	
Chigasaki,KANAGAWA	01	- 03	12095.2	0.00000	±	0.00046	0.00000	±	0.00022	
Niigata,NIIGATA	01	- 03	9936.0	0.00000	±	0.00062	0.00005	±	0.00030	
Imizu,TOYAMA	01	- 03	18010.8	0.00003	±	0.00027	0.00000	±	0.00019	
Fukui,FUKUI	01	- 03	12959.1	0.00033	±	0.00053	0.00000	±	0.00021	
Kofu,YAMANASHI	01	- 03	10367.1	0.00000	±	0.00052	0.00011	±	0.00032	
Nagano,NAGANO	01	- 03	11177.4	0.00000	±	0.00052	0.00000	±	0.00025	
Kakamigahara,GIFU	01	- 03	12054.5	0.00004	±	0.00046	0.00013	±	0.00025	
Nagoya,AICHI	01	- 03	10366.2	0.00043	±	0.00059	0.00011	±	0.00032	
Yokkaichi,MIE	01	- 03	12959.0	0.00000	±	0.00047	0.00017	±	0.00024	
Otsu,SHIGA	01	- 03	10033.3	0.0010	±	0.00073	0.00000	±	0.00026	
Kyoto,KYOTO	01	- 03	10369.2	0.00049	±	0.00053	0.00000	±	0.00032	

Location	Sampling Period	Absorption (m ³)	Sr-90 (mBq/m ³)	Cs-137 (mBq/m ³)
Osaka, OSAKA	01 - 03	14357.6	0.0014 ± 0.00057	0.00021 ± 0.00022
Kobe, HYOGO	01 - 03	10367.4	0.00023 ± 0.00054	0.00000 ± 0.00023
Nara, NARA	01 - 03	10502.8	0.00059 ± 0.00062	0.00090 ± 0.00032
Wakayama, WAKAYAMA	01 - 03	11167.7	0.00000 ± 0.00068	0.00000 ± 0.00026
Yurihama-machi, TOTTORI	01 - 03	14340.0	0.00020 ± 0.00035	0.00000 ± 0.00024
Okayama, OKAYAMA	01 - 03	13680.0	0.00021 ± 0.00046	0.00059 ± 0.00024
Hiroshima, HIROSHIMA	01 - 03	10200.6	0.00005 ± 0.00052	0.00000 ± 0.00034
Yamaguchi, YAMAGUCHI	01 - 03	21724.6	0.00018 ± 0.00025	0.00011 ± 0.00016
Tokushima, TOKUSHIMA	01 - 03	10080.0	0.00000 ± 0.00062	0.00000 ± 0.00026
Takamatsu, KAGAWA	01 - 03	10073.0	0.00051 ± 0.00065	0.0017 ± 0.00040
Saga, SAGA	01 - 03	10124.7	0.00011 ± 0.00072	0.00000 ± 0.00029
Omura, NAGASAKI	01 - 03	8640.0	0.00000 ± 0.00058	0.00000 ± 0.00033
Uto, KUMAMOTO	01 - 03	14798.1	0.00000 ± 0.00039	0.00032 ± 0.00022
Oita, OITA	01 - 03	10368.0	0.00000 ± 0.00052	0.00000 ± 0.00029
Miyazaki, MIYAZAKI	01 - 03	13374.0	0.00030 ± 0.00057	0.00000 ± 0.00021
Nanjo, OKINAWA	01 - 03	12755.6	0.00056 ± 0.00056	0.00000 ± 0.00022

(3) Strontium-90 and Cesium-137 in Service water
(from Apr.2008 to Mar.2009)

Table (3) : Strontium-90 and Cesium-137 in Service water

Location	pH (pH)		Sr-90 (mBq/L)		Cs-137 (mBq/L)		
(Source water)							
May 2008							
Sapporo,HOKKAIDO	6.8	0.75	±	0.11	0.083	±	0.041
Jun.2008							
Saitama,SAITAMA	7.2	1.2	±	0.14	0.000	±	0.039
Katsushika,TOKYO	7.1	1.0	±	0.11	0.25	±	0.051
Sagamihara,KANAGAWA	8.0	0.23	±	0.068	0.026	±	0.040
Inuyama,AICHI	6.9	1.2	±	0.13	0.053	±	0.040
Kyoto,KYOTO	7.4	1.9	±	0.14	0.000	±	0.040
Fukuoka,FUKUOKA	6.5	1.7	±	0.15	0.029	±	0.041
Jul.2008							
Kisarazu,CHIBA	7.6	1.2	±	0.11	0.11	±	0.046
Nagano,NAGANO	7.5	0.76	±	0.099	0.071	±	0.041
Moriguchi,OSAKA	7.6	1.7	±	0.14	0.000	±	0.038
(Tap water)							
Jun.2008							
Wakkanai,HOKKAIDO	6.8	0.89	±	0.11	0.031	±	0.041
Aomori,AOMORI	7.4	0.90	±	0.11	0.13	±	0.050
Morioka,IWATE	7.4	0.70	±	0.10	0.038	±	0.043
Sendai,MIYAGI	—	0.79	±	0.11	0.003	±	0.039
Akita,AKITA	7.2	2.0	±	0.15	0.063	±	0.040
Yamagata,YAMAGATA	7.0	1.1	±	0.13	0.075	±	0.044
Fukushima,FUKUSHIMA	6.8	1.6	±	0.14	0.000	±	0.038
Hitachinaka,IBARAKI	7.7	0.75	±	0.12	0.034	±	0.034
Utsunomiya,TOCHIGI	6.2	0.30	±	0.079	0.015	±	0.042
Maebashi,GUNMA	7.14	1.2	±	0.14	0.015	±	0.042
Saitama,SAITAMA	7.2	1.1	±	0.13	0.000	±	0.039
Ichihara,CHIBA	7.2	1.7	±	0.15	0.034	±	0.047
Katsushika,TOKYO	7.2	0.92	±	0.11	0.14	±	0.043
Yokosuka,KANAGAWA	7.3	0.39	±	0.073	0.006	±	0.032
Niigata,NIIGATA	6.8	1.6	±	0.15	0.11	±	0.044
Imizu,TOYAMA	6.5	0.94	±	0.12	0.055	±	0.044

Location	pH (pH)		Sr-90 (mBq/L)		Cs-137 (mBq/L)		
Kanazawa, ISHIKAWA	7.3	1.3	±	0.09	0.025	±	0.041
Fukui, FUKUI	7.0	0.52	±	0.095	0.000	±	0.039
Kofu, YAMANASHI	7.3	0.68	±	0.10	0.000	±	0.037
Nagano, NAGANO	7.5	0.58	±	0.088	0.000	±	0.038
Kakamigahara, GIFU	7.4	0.000	±	0.071	0.000	±	0.039
Shizuoka, SHIZUOKA	7.8	0.47	±	0.11	0.000	±	0.036
Nagoya, AICHI	6.9	1.3	±	0.14	0.062	±	0.046
Yokkaichi, MIE	7.3	2.5	±	0.16	0.029	±	0.038
Otsu, SHIGA	7.1	1.5	±	0.15	0.000	±	0.036
Kyoto, KYOTO	6.8	1.7	±	0.14	0.000	±	0.039
Osaka, OSAKA	7.6	1.6	±	0.14	0.020	±	0.041
Nara, NARA	7.2	1.6	±	0.14	0.038	±	0.040
Yurihama-machi, TOTTORI	7.4	0.13	±	0.077	0.000	±	0.046
Matsue, SHIMANE	6.95	1.6	±	0.16	0.093	±	0.046
Okayama, OKAYAMA	7.7	1.5	±	0.14	0.000	±	0.036
Hiroshima, HIROSHIMA	6.7	1.4	±	0.15	0.000	±	0.041
Ube, YAMAGUCHI	7.2	1.3	±	0.12	0.000	±	0.035
Tokushima, TOKUSHIMA	7.4	0.87	±	0.10	0.031	±	0.041
Fukuoka, FUKUOKA	6.2	1.7	±	0.16	0.030	±	0.042
Saga, SAGA	7.1	1.0	±	0.11	0.093	±	0.045
Uto, KUMAMOTO	7.6	0.11	±	0.087	0.000	±	0.041
Oita, OITA	7.7	0.61	±	0.090	0.11	±	0.046
Miyazaki, MIYAZAKI	7.0	0.78	±	0.098	0.032	±	0.042
Naha, OKINAWA	7.5	2.3	±	0.10	0.000	±	0.031
Jul.2008							
Takamatsu, KAGAWA	7.4	1.8	±	0.15	0.030	±	0.042
Sasebo, NAGASAKI	7.3	0.74	±	0.11	0.038	±	0.042
Sep.2008							
Shingu, WAKAYAMA	6.6	1.3	±	0.09	0.022	±	0.045
Kagoshima, KAGOSHIMA	7.0	0.42	±	0.095	0.079	±	0.049
Oct.2008							
Matsuyama, EHIME	7.8	1.2	±	0.13	0.000	±	0.036
Dec.2008							
Kochi, KOCHI	7.4	1.3	±	0.12	0.020	±	0.039

(4) Strontium-90 and Cesium-137 in Fresh water
(from Apr.2008 to Mar.2009)

Table (4) : Strontium-90 and Cesium-137 in Fresh water

Location	pH (pH)	Sr-90 (mBq/L)			Cs-137 (mBq/L)		
(Fresh water)							
May 2008							
IBARAKI	8.8	1.3	±	0.15	0.40	±	0.058
Jul.2008							
Ishikari,HOKKAIDO	7.6	0.91	±	0.11	0.12	±	0.048
Akita,AKITA	6.7	2.8	±	0.19	0.21	±	0.047
Aug.2008							
Tsuruga,FUKUI	7.8	2.1	±	0.16	0.91	±	0.084
Sep.2008							
Fukushima,FUKUSHIMA	7.4	0.054	±	0.076	0.000	±	0.034
Oct.2008							
Kameyama,MIE	7.9	3.1	±	0.18	0.009	±	0.041
Syobara,HIROSHIMA	6.8	1.7	±	0.16	0.083	±	0.046
Nov.2008							
NAGANO	8.8	0.64	±	0.11	0.15	±	0.051
Dec.2008							
Niigata,NIIGATA	6.7	1.9	±	0.16	0.072	±	0.046
Uji,KYOTO	6.9	0.000	±	0.097	0.052	±	0.036

(5) Strontium-90 and Cesium-137 in Soil
(from Apr.2008 to Mar.2009)

Table (5) : Strontium-90 and Cesium-137 in Soil

Location	Sampling depth(cm)	Sr-90				Cs-137					
		(Bq/kg)		(MBq/km ²)		(Bq/kg)		(MBq/km ²)			
May 2008											
Tokai-mura,IBARAKI	0 - 5	2.7	± 0.20	110	± 8	49	± 0.6	2000	± 30		
Tokai-mura,IBARAKI	5 - 20	6.6	± 0.30	620	± 29	19	± 0.4	1800	± 40		
Tahara,AICHI	0 - 5	0.18	± 0.077	9.9	± 4.2	1.6	± 0.12	87	± 6.6		
Tahara,AICHI	5 - 20	0.23	± 0.081	26	± 8.8	1.2	± 0.10	130	± 11		
Jun.2008											
Fukushima,FUKUSHIMA	0 - 5	2.3	± 0.18	91	± 7.3	17	± 0.4	660	± 15		
Fukushima,FUKUSHIMA	5 - 20	2.7	± 0.21	310	± 23	13	± 0.3	1500	± 40		
Jul.2008											
Aomori,AOMORI	0 - 5	1.6	± 0.16	33	± 3.3	4.5	± 0.19	93	± 4.0		
Gosyogawara,AOMORI	0 - 5	0.82	± 0.12	33	± 4.9	3.4	± 0.17	140	± 7		
Aomori,AOMORI	5 - 20	2.1	± 0.18	240	± 21	5.7	± 0.22	650	± 25		
Gosyogawara,AOMORI	5 - 20	0.70	± 0.11	110	± 18	4.1	± 0.18	630	± 28		
Takizawa-mura,IWATE	0 - 5	5.4	± 0.26	160	± 8	34	± 0.5	1000	± 20		
Takizawa-mura,IWATE	5 - 20	6.3	± 0.29	600	± 28	7.5	± 0.25	720	± 24		
Saitama,SAITAMA	0 - 5	0.49	± 0.094	14	± 2.6	4.6	± 0.20	130	± 6		
Saitama,SAITAMA	5 - 20	0.75	± 0.11	77	± 12	0.54	± 0.078	55	± 8.0		
Kashiwazaki,NIIGATA	0 - 5	0.42	± 0.094	22	± 5.0	3.8	± 0.18	200	± 9		
Kashiwazaki,NIIGATA	5 - 20	0.43	± 0.096	86	± 20	11	± 0.3	2200	± 60		
Imizu,TOYAMA	0 - 5	0.48	± 0.093	24	± 4.7	1.6	± 0.12	82	± 6.1		
Imizu,TOYAMA	5 - 20	0.35	± 0.10	59	± 17	1.6	± 0.12	270	± 20		
Fukui,FUKUI	0 - 5	0.34	± 0.094	13	± 3.6	3.5	± 0.17	130	± 6		
Fukui,FUKUI	5 - 20	0.14	± 0.083	19	± 11	3.2	± 0.16	430	± 22		
Gifu,GIFU	0 - 5	0.56	± 0.095	28	± 4.7	3.2	± 0.17	160	± 8		
Gifu,GIFU	5 - 20	0.60	± 0.10	120	± 21	3.4	± 0.17	710	± 36		
Fujinomiya,SHIZUOKA	0 - 5	1.5	± 0.16	17	± 1.9	20	± 0.4	230	± 5		
Fujinomiya,SHIZUOKA	5 - 20	1.9	± 0.18	85	± 8.1	20	± 0.4	880	± 18		
Komono-machi,MIE	0 - 5	0.030	± 0.067	1.2	± 2.7	1.3	± 0.11	54	± 4.5		
Komono-machi,MIE	5 - 20	0.007	± 0.058	1	± 11	0.22	± 0.056	42	± 11		
Yasu,SHIGA	0 - 5	0.58	± 0.11	17	± 3.3	12	± 0.3	360	± 9		
Yasu,SHIGA	5 - 20	0.15	± 0.078	20	± 11	2.0	± 0.13	280	± 18		

Location	Sampling depth(cm)	Sr-90					Cs-137						
		(Bq/kg)		(MBq/km ²)			(Bq/kg)		(MBq/km ²)				
Kyoto,KYOTO	0 - 5	1.3	±	0.15	27	±	3.1	2.5	±	0.14	52	±	3.0
Kyoto,KYOTO	5 - 20	0.43	±	0.097	62	±	14	4.1	±	0.18	600	±	27
Osaka,OSAKA	0 - 5	0.20	±	0.068	11	±	3.6	1.5	±	0.11	77	±	6.0
Osaka,OSAKA	5 - 20	0.50	±	0.089	88	±	16	2.7	±	0.15	480	±	27
Kasai,HYOGO	0 - 5	0.25	±	0.083	15	±	5.2	0.47	±	0.075	29	±	4.7
Kasai,HYOGO	5 - 20	0.086	±	0.071	10	±	8.3	0.47	±	0.072	55	±	8.4
Kashihara,NARA	0 - 5	0.78	±	0.12	78	±	12	3.8	±	0.18	370	±	17
Kashihara,NARA	5 - 20	0.73	±	0.12	170	±	27	3.6	±	0.17	820	±	39
Shingu,WAKAYAMA	0 - 5	0.039	±	0.053	0.9	±	1.2	1.3	±	0.11	31	±	2.5
Shingu,WAKAYAMA	5 - 20	0.19	±	0.060	37	±	12	0.57	±	0.079	110	±	15
Kurayoshi,TOTTORI	0 - 5	0.000	±	0.052	0.0	±	3.1	0.12	±	0.046	6.8	±	2.7
Kurayoshi,TOTTORI	5 - 20	0.000	±	0.057	0.0	±	5.2	0.000	±	0.043	0.0	±	4.0
Oda,SHIMANE	0 - 5	6.3	±	0.31	110	±	5	17	±	0.4	290	±	6
Oda,SHIMANE	5 - 20	2.2	±	0.19	52	±	4.5	8.3	±	0.26	190	±	6
Misaki-machi,OKAYAMA	0 - 5	1.0	±	0.13	53	±	6.9	2.0	±	0.14	100	±	7
Misaki-machi,OKAYAMA	5 - 20	0.43	±	0.090	25	±	5.2	0.91	±	0.096	52	±	5.5
Hiroshima,HIROSHIMA	0 - 5	0.53	±	0.093	23	±	4.1	2.5	±	0.15	110	±	6
Hiroshima,HIROSHIMA	5 - 20	1.1	±	0.13	200	±	23	6.1	±	0.22	1100	±	40
Matsuyama,EHIME	0 - 5	4.8	±	0.26	33	±	1.8	22	±	0.4	150	±	3
Matsuyama,EHIME	5 - 20	0.71	±	0.11	30	±	4.5	16	±	0.4	680	±	15
Kochi,KOCHI	0 - 5	2.4	±	0.19	49	±	4.0	7.8	±	0.26	160	±	5
Kochi,KOCHI	5 - 20	2.3	±	0.19	150	±	12	2.4	±	0.15	150	±	9
Fukuoka,FUKUOKA	0 - 5	1.7	±	0.16	200	±	18	9.7	±	0.27	1100	±	30
Fukuoka,FUKUOKA	5 - 20	3.3	±	0.22	670	±	44	2.3	±	0.14	460	±	27
Saga,SAGA	0 - 5	0.15	±	0.089	12	±	6.9	0.99	±	0.094	77	±	7.3
Saga,SAGA	5 - 20	0.061	±	0.081	12	±	16	0.54	±	0.073	110	±	14
Sasebo,NAGASAKI	0 - 5	1.1	±	0.14	44	±	5.6	11	±	0.3	460	±	12
Sasebo,NAGASAKI	5 - 20	1.4	±	0.15	200	±	21	3.0	±	0.16	410	±	22
Nishihara-mura,KUMAMOTO	0 - 5	3.1	±	0.21	43	±	3.0	42	±	0.6	580	±	8
Nishihara-mura,KUMAMOTO	5 - 20	2.8	±	0.21	180	±	14	16	±	0.4	1000	±	20
Taketa,OITA	0 - 5	1.1	±	0.13	14	±	1.6	55	±	0.7	660	±	8
Taketa,OITA	5 - 20	1.3	±	0.14	65	±	7.1	11	±	0.3	560	±	15
Aug.2008													
Ebetsu,HOKKAIDO	0 - 5	3.6	±	0.23	83	±	5.4	17	±	0.4	390	±	8

Location	Sampling depth(cm)	Sr-90					Cs-137						
		(Bq/kg)		(MBq/km ²)			(Bq/kg)		(MBq/km ²)				
Ebetsu,HOKKAIDO	5 - 20	2.5	±	0.20	390	±	31	8.2	±	0.26	1300	±	40
Yamagata,YAMAGATA	0 - 5	2.1	±	0.18	68	±	5.7	16	±	0.4	520	±	12
Yamagata,YAMAGATA	5 - 20	1.1	±	0.13	130	±	16	3.2	±	0.16	400	±	20
Ichihara,CHIBA	0 - 5	0.14	±	0.058	4.6	±	1.9	1.1	±	0.10	38	±	3.4
Ichihara,CHIBA	5 - 20	0.21	±	0.065	73	±	23	0.86	±	0.091	300	±	31
Shinjuku,TOKYO	0 - 5	0.40	±	0.094	10	±	2.3	2.1	±	0.14	51	±	3.4
Shinjuku,TOKYO	5 - 20	0.35	±	0.088	22	±	5.4	2.2	±	0.14	130	±	9
Yokosuka,KANAGAWA	0 - 5	2.0	±	0.17	73	±	6.3	3.3	±	0.17	120	±	6
Yokosuka,KANAGAWA	5 - 20	2.1	±	0.17	270	±	22	2.8	±	0.16	360	±	20
Kanazawa,ISHIKAWA	0 - 5	2.6	±	0.21	86	±	7.1	25	±	0.4	820	±	15
Kanazawa,ISHIKAWA	5 - 20	3.8	±	0.25	340	±	22	20	±	0.4	1800	±	40
Nagano,NAGANO	0 - 5	5.5	±	0.28	120	±	6	60	±	0.7	1300	±	10
Nagano,NAGANO	5 - 20	5.0	±	0.27	320	±	17	11	±	0.3	690	±	19
Hagi,YAMAGUCHI	0 - 5	0.81	±	0.12	50	±	7.4	3.4	±	0.17	210	±	11
Hagi,YAMAGUCHI	5 - 20	0.96	±	0.13	230	±	31	2.6	±	0.15	610	±	35
Kamiita-machi,TOKUSHIMA	0 - 5	0.45	±	0.086	30	±	5.8	2.6	±	0.15	170	±	10
Kamiita-machi,TOKUSHIMA	5 - 20	0.65	±	0.10	63	±	9.8	2.4	±	0.14	240	±	14
Sakaide,KAGAWA	0 - 5	1.1	±	0.12	52	±	6.0	14	±	0.3	680	±	16
Sakaide,KAGAWA	5 - 20	1.4	±	0.14	75	±	7.8	2.6	±	0.15	140	±	8
Miyazaki,MIYAZAKI	0 - 5	0.76	±	0.11	40	±	6.0	1.9	±	0.13	99	±	6.7
Miyazaki,MIYAZAKI	5 - 20	0.60	±	0.10	98	±	17	1.7	±	0.12	280	±	20
Sep.2008													
Osaki,MIYAGI	0 - 5	1.7	±	0.18	66	±	6.9	3.2	±	0.16	120	±	6
Osaki,MIYAGI	5 - 20	1.2	±	0.14	180	±	22	1.4	±	0.11	220	±	17
Akita,AKITA	0 - 5	4.3	±	0.24	120	±	7	22	±	0.4	610	±	12
Akita,AKITA	5 - 20	4.8	±	0.26	520	±	28	23	±	0.4	2500	±	50
Nikko,TOCHIGI	0 - 5	7.1	±	0.32	140	±	6	31	±	0.5	610	±	10
Nikko,TOCHIGI	5 - 20	2.4	±	0.19	130	±	10	7.0	±	0.24	380	±	13
Maebashi,GUNMA	0 - 5	1.1	±	0.13	38	±	4.6	0.37	±	0.066	13	±	2.4
Maebashi,GUNMA	5 - 20	0.32	±	0.083	29	±	7.4	0.64	±	0.080	58	±	7.2
Naha,OKINAWA	0 - 5	0.54	±	0.096	26	±	4.5	3.6	±	0.18	170	±	8
Naha,OKINAWA	5 - 20	0.59	±	0.10	73	±	13	2.5	±	0.15	320	±	19
Uruma,OKINAWA	0 - 5	0.27	±	0.077	20	±	5.8	0.60	±	0.082	45	±	6.2
Uruma,OKINAWA	5 - 20	0.25	±	0.092	30	±	11	0.79	±	0.090	96	±	11

Location	Sampling depth(cm)	Sr-90						Cs-137					
		(Bq/kg)			(MBq/km ²)			(Bq/kg)			(MBq/km ²)		
Oct.2008													
Hokuto,YAMANASHI	0 - 5	5.1	±	0.27	85	±	4.4	29	±	0.5	480	±	8
Hokuto,YAMANASHI	5 - 20	4.9	±	0.29	330	±	19	14	±	0.3	940	±	23
Ibusuki,KAGOSHIMA	0 - 5	0.22	±	0.069	13	±	3.9	0.80	±	0.088	45	±	5.0
Ibusuki,KAGOSHIMA	5 - 20	0.12	±	0.064	14	±	7.5	0.87	±	0.090	100	±	11

(6) Strontium-90 and Cesium-137 in Seawater
(from Apr.2008 to Mar.2009)

Table (6) : Strontium-90 and Cesium-137 in Seawater

Location	Sample Volume analyzed (L)	Cl (‰)	Sr-90			Cs-137		
			(mBq/L)			(mBq/L)		
Jul.2008								
Yoichi-bay,HOKKAIDO	30.0	18.71	1.3	±	0.28	1.9	±	0.33
Soma,FUKUSHIMA	30.0	18.84	1.3	±	0.27	1.8	±	0.32
Tokai-mura,IBARAKI	30.0	17.45	1.2	±	0.26	2.1	±	0.34
Sodegaura,CHIBA	30.0	16.4	0.97	±	0.26	1.2	±	0.28
Niigata,NIIGATA	30.0	18.7	1.4	±	0.27	1.8	±	0.30
Osaka-Port,OSAKA	30.0	5.58	1.2	±	0.28	0.02	±	0.19
Aug.2008								
Mutsu-bay,AOMORI	30.0	14.9	1.5	±	0.37	1.2	±	0.29
Hirono-machi,IWATE	30.0	19.9	1.2	±	0.27	1.8	±	0.30
Odawa-bay,KANAGAWA	30.0	19.54	1.0	±	0.26	1.3	±	0.29
Yamaguchi-bay,YAMAGUCHI	30.0	18.8	1.2	±	0.27	1.5	±	0.29
Kitakyusyu,FUKUOKA	30.0	14.0	1.3	±	0.28	1.9	±	0.33
White-beach,OKINAWA	30.0	18.6	1.0	±	0.25	1.3	±	0.28
Sep.2008								
Minamisatsuma,KAGOSHIMA	30.0	17.44	1.2	±	0.27	1.9	±	0.33
Oct.2008								
Fukaura-machi,AOMORI	30.0	18.7	0.94	±	0.27	1.9	±	0.33
Tokoname,AICHI	30.0	18.17	1.2	±	0.28	1.1	±	0.28

(7) Strontium-90 and Cesium-137 in Sea sediments
(from Apr.2008 to Mar.2009)

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

Location	Depth (m)	Sr-90 (Bq/kg)			Cs-137 (Bq/kg)		
Jul.2008							
Soma,FUKUSHIMA	5.0	0.051	±	0.053	0.15	±	0.045
Tokai-mura,IBARAKI	22.0	0.031	±	0.049	0.62	±	0.079
Sodegaura,CHIBA	18.0	0.12	±	0.061	2.0	±	0.13
Niigata,NIIGATA	27.0	0.034	±	0.053	0.70	±	0.082
Osaka-Port,OSAKA	16.9	0.062	±	0.052	1.7	±	0.12
Aug.2008							
Yoichi-bay,HOKKAIDO	13.0	0.074	±	0.050	0.26	±	0.058
Mutsu-bay,AOMORI	13.0	0.19	±	0.064	4.6	±	0.20
Hirono-machi,IWATE	20.0	0.088	±	0.055	0.16	±	0.046
Odawa-bay,KANAGAWA	6.8	0.000	±	0.041	1.1	±	0.10
Yamaguchi-bay,YAMAGUCHI	12.2	0.033	±	0.051	1.9	±	0.13
Kitakyusyu,FUKUOKA	8.0	0.046	±	0.053	2.0	±	0.13
White-beach,OKINAWA	13.6	0.019	±	0.049	0.15	±	0.048
Sep.2008							
Minamisatsuma,KAGOSHIMA	6.0	0.066	±	0.052	0.19	±	0.052
Oct.2008							
Fukaura-machi,AOMORI	15.0	0.093	±	0.055	0.52	±	0.076
Tokoname,AICHI	7.6	0.000	±	0.038	0.43	±	0.068

(8) Strontium-90 and Cesium-137 in Total diet
(from Apr.2008 to Mar.2009)

Table (8) : Strontium-90 and Cesium-137 in Total diet

Location	Ash (g/p/d)	Ca (mg/p/d)	K (mg/p/d)	(p/d : person/day)										
				Sr-90					Cs-137					
				(Bq/p/d)		(Bq/g Ca)			(Bq/p/d)		(Bq/g K)			
Jun.2008														
Sapporo,HOKKAIDO	9.81	247	1390	0.026 ± 0.0094	0.11 ± 0.038	0.0096 ± 0.0045	0.0069 ± 0.0032							
Aomori,AOMORI	16.6	684	2110	0.042 ± 0.0097	0.061 ± 0.014	0.029 ± 0.0062	0.014 ± 0.0030							
Morioka,IWATE	12.9	308	1150	0.027 ± 0.0085	0.086 ± 0.028	0.011 ± 0.0047	0.0092 ± 0.0040							
Akita,AKITA	11.4	433	1080	0.018 ± 0.0080	0.042 ± 0.018	0.012 ± 0.0050	0.011 ± 0.0046							
Yamagata,YAMAGATA	12.9	383	1380	0.020 ± 0.0070	0.053 ± 0.018	0.014 ± 0.0050	0.0099 ± 0.0036							
Fukushima,FUKUSHIMA	13.1	713	1530	0.038 ± 0.0095	0.054 ± 0.013	0.014 ± 0.0051	0.0089 ± 0.0034							
Mito,IBARAKI	19.2	703	2860	0.056 ± 0.0092	0.079 ± 0.013	0.015 ± 0.0052	0.0052 ± 0.0018							
Utsunomiya,TOCHIGI	15.3	346	1930	0.034 ± 0.0087	0.099 ± 0.025	0.024 ± 0.0060	0.013 ± 0.0031							
Maebashi,GUNMA	17.4	583	2190	0.027 ± 0.0078	0.047 ± 0.013	0.026 ± 0.0057	0.012 ± 0.0026							
Saitama,SAITAMA	15.4	499	1770	0.023 ± 0.0080	0.047 ± 0.016	0.017 ± 0.0055	0.0096 ± 0.0031							
Chiba,CHIBA	16.6	478	1960	0.017 ± 0.0077	0.037 ± 0.016	0.022 ± 0.0057	0.011 ± 0.0029							
Shinjuku,TOKYO	8.68	250	1090	0.031 ± 0.0086	0.12 ± 0.034	0.0059 ± 0.0043	0.0054 ± 0.0039							
Niigata,NIIGATA	21.2	661	2250	0.018 ± 0.0073	0.027 ± 0.011	0.016 ± 0.0048	0.0071 ± 0.0021							
Toyama,TOYAMA	13.4	489	1780	0.039 ± 0.0090	0.079 ± 0.018	0.035 ± 0.0061	0.020 ± 0.0034							
Kanazawa,ISHIKAWA	14.7	407	1450	0.012 ± 0.0069	0.029 ± 0.017	0.021 ± 0.0051	0.015 ± 0.0035							
Kofu,YAMANASHI	10.6	330	1370	0.024 ± 0.0079	0.072 ± 0.024	0.015 ± 0.0053	0.011 ± 0.0038							
Nagano,NAGANO	14.0	582	1710	0.041 ± 0.0090	0.071 ± 0.015	0.017 ± 0.0055	0.0099 ± 0.0032							
Gifu,GIFU	14.7	706	1840	0.022 ± 0.0076	0.031 ± 0.011	0.026 ± 0.0058	0.014 ± 0.0032							
Shizuoka,SHIZUOKA	12.4	438	1880	0.012 ± 0.0069	0.027 ± 0.016	0.018 ± 0.0049	0.0096 ± 0.0026							
Nagoya,AICHI	15.3	410	1440	0.0090 ± 0.0069	0.022 ± 0.017	0.029 ± 0.0064	0.020 ± 0.0044							
Tsu,MIE	19.5	720	1920	0.039 ± 0.0092	0.055 ± 0.013	0.017 ± 0.0054	0.0086 ± 0.0028							
Otsu,SHIGA	12.8	465	1720	0.034 ± 0.0087	0.073 ± 0.019	0.014 ± 0.0046	0.0080 ± 0.0027							
Kyoto,KYOTO	15.6	530	1920	0.024 ± 0.0082	0.046 ± 0.015	0.013 ± 0.0051	0.0069 ± 0.0026							
Osaka,OSAKA	10.4	218	1150	0.023 ± 0.0081	0.11 ± 0.037	0.0098 ± 0.0046	0.0085 ± 0.0040							
Kakogawa,HYOGO	12.0	499	1570	0.024 ± 0.0077	0.049 ± 0.015	0.0097 ± 0.0042	0.0061 ± 0.0027							
Kashihara,NARA	12.4	961	1480	0.024 ± 0.0077	0.025 ± 0.0080	0.0028 ± 0.0043	0.0019 ± 0.0029							
Tottori,TOTTORI	11.5	443	1200	0.030 ± 0.0084	0.069 ± 0.019	0.013 ± 0.0050	0.011 ± 0.0041							
Matsue,SHIMANE	11.1	375	1400	0.033 ± 0.0084	0.087 ± 0.022	0.026 ± 0.0055	0.018 ± 0.0039							
Okayama,OKAYAMA	15.1	415	1950	0.028 ± 0.0085	0.068 ± 0.020	0.017 ± 0.0051	0.0090 ± 0.0026							
Hiroshima,HIROSHIMA	11.4	235	1300	0.015 ± 0.0075	0.062 ± 0.032	0.014 ± 0.0052	0.011 ± 0.0040							
Yamaguchi,YAMAGUCHI	13.9	400	1900	0.024 ± 0.0080	0.061 ± 0.020	0.022 ± 0.0058	0.012 ± 0.0031							
Tokushima,TOKUSHIMA	15.9	437	2050	0.025 ± 0.0078	0.057 ± 0.018	0.036 ± 0.0061	0.018 ± 0.0030							

Location	Ash (g/p/d)	Ca (mg/p/d)	K (mg/p/d)	Sr-90				Cs-137			
				(Bq/p/d)		(Bq/g Ca)		(Bq/p/d)		(Bq/g K)	
Matsuyama,EHIME	14.0	480	1860	0.035	± 0.0095	0.073	± 0.020	0.038	± 0.0068	0.020	± 0.0036
Kochi,KOCHI	14.8	505	2070	0.036	± 0.0089	0.070	± 0.018	0.045	± 0.0069	0.022	± 0.0033
Dazaifu,FUKUOKA	17.6	429	1830	0.034	± 0.0090	0.080	± 0.021	0.020	± 0.0057	0.011	± 0.0031
Saga,SAGA	16.0	459	1530	0.031	± 0.0087	0.068	± 0.019	0.0057	± 0.0046	0.0038	± 0.0030
Oomura,NAGASAKI	13.8	341	1500	0.021	± 0.0079	0.061	± 0.023	0.012	± 0.0043	0.0081	± 0.0028
Kumamoto,KUMAMOTO	14.3	439	1820	0.039	± 0.0096	0.089	± 0.022	0.012	± 0.0051	0.0067	± 0.0028
Oita,OITA	11.6	322	1360	0.012	± 0.0065	0.037	± 0.020	0.014	± 0.0054	0.010	± 0.0040
Miyazaki,MIYAZAKI	16.1	464	1920	0.038	± 0.0091	0.081	± 0.020	0.014	± 0.0052	0.0072	± 0.0027
Satsumasendai,KAGOSHIMA	14.5	329	1830	0.021	± 0.0079	0.063	± 0.024	0.036	± 0.0062	0.020	± 0.0034
Jul.2008											
Ishinomaki,MIYAGI	19.0	614	2170	0.035	± 0.0088	0.058	± 0.014	0.021	± 0.0057	0.0097	± 0.0027
Hiratsuka,KANAGAWA	13.2	447	1860	0.032	± 0.0084	0.071	± 0.019	0.036	± 0.0061	0.019	± 0.0033
Fukui,FUKUI	12.9	488	1770	0.039	± 0.0092	0.080	± 0.019	0.0056	± 0.0044	0.0032	± 0.0025
Wakayama,WAKAYAMA	18.0	281	1140	0.018	± 0.0067	0.063	± 0.024	0.0090	± 0.0043	0.0079	± 0.0038
Takamatsu,KAGAWA	23.8	466	2340	0.044	± 0.0097	0.095	± 0.021	0.013	± 0.0052	0.0057	± 0.0022
Naha,OKINAWA	11.4	321	1480	0.022	± 0.0080	0.069	± 0.025	0.016	± 0.0055	0.011	± 0.0037
Sep.2008											
Oita,OITA	11.3	408	1620	0.021	± 0.0075	0.051	± 0.018	0.021	± 0.0052	0.013	± 0.0032
Oct.2008											
Oomura,NAGASAKI	17.8	468	1890	0.044	± 0.0091	0.094	± 0.019	0.020	± 0.0058	0.011	± 0.0031
Nov.2008											
Ishinomaki,MIYAGI	17.1	616	1880	0.032	± 0.0094	0.052	± 0.015	0.033	± 0.0064	0.017	± 0.0034
Yamagata,YAMAGATA	11.3	287	1540	0.035	± 0.0087	0.12	± 0.030	0.0072	± 0.0044	0.0047	± 0.0028
Fukushima,FUKUSHIMA	14.2	378	1870	0.040	± 0.0088	0.11	± 0.023	0.017	± 0.0052	0.0090	± 0.0028
Saitama,SAITAMA	17.9	789	2220	0.040	± 0.0090	0.051	± 0.011	0.020	± 0.0053	0.0089	± 0.0024
Toyama,TOYAMA	16.0	504	2430	0.040	± 0.011	0.079	± 0.021	0.021	± 0.0053	0.0088	± 0.0022
Fukui,FUKUI	14.1	496	1780	0.029	± 0.0090	0.059	± 0.018	0.0061	± 0.0045	0.0034	± 0.0025
Nagano,NAGANO	15.0	525	1790	0.016	± 0.0078	0.031	± 0.015	0.015	± 0.0053	0.0085	± 0.0030
Shizuoka,SHIZUOKA	15.2	529	2130	0.047	± 0.0093	0.088	± 0.018	0.017	± 0.0051	0.0082	± 0.0024
Nagoya,AICHI	14.8	367	2160	0.032	± 0.0083	0.087	± 0.023	0.018	± 0.0056	0.0083	± 0.0026
Kashihara,NARA	8.02	360	1070	0.015	± 0.0072	0.042	± 0.020	0.018	± 0.0047	0.017	± 0.0044
Wakayama,WAKAYAMA	16.2	418	1810	0.029	± 0.0088	0.069	± 0.021	0.015	± 0.0052	0.0082	± 0.0029
Tottori,TOTTORI	12.8	374	1790	0.041	± 0.0090	0.11	± 0.024	0.025	± 0.0056	0.014	± 0.0031
Matsue,SHIMANE	12.3	531	1760	0.046	± 0.0091	0.087	± 0.017	0.015	± 0.0053	0.0084	± 0.0030
Okayama,OKAYAMA	14.7	472	2000	0.037	± 0.010	0.079	± 0.021	0.012	± 0.0049	0.0062	± 0.0024
Matsuyama,EHIME	11.5	394	1700	0.016	± 0.0067	0.041	± 0.017	0.018	± 0.0054	0.011	± 0.0032

Location	Ash (g/p/d)	Ca (mg/p/d)	K (mg/p/d)	Sr-90				Cs-137				
				(Bq/p/d)		(Bq/g Ca)		(Bq/p/d)		(Bq/g K)		
Dazaifu,FUKUOKA	13.3	322	1300	0.0095 ±	0.0074	0.030 ±	0.023	0.013 ±	0.0047	0.0098 ±	0.0036	
Saga,SAGA	12.4	352	1740	0.027 ±	0.0080	0.076 ±	0.023	0.014 ±	0.0047	0.0083 ±	0.0027	
Satsumasendai,KAGOSHIMA	15.8	373	1820	0.042 ±	0.0092	0.11 ±	0.025	0.013 ±	0.0043	0.0073 ±	0.0024	
Dec.2008												
Sapporo,HOKKAIDO	15.1	429	1840	0.036 ±	0.0084	0.084 ±	0.020	0.0088 ±	0.0045	0.0048 ±	0.0024	
Aomori,AOMORI	17.3	522	2280	0.045 ±	0.0089	0.087 ±	0.017	0.085 ±	0.0091	0.037 ±	0.0040	
Morioka,IWATE	13.9	364	1420	0.035 ±	0.0093	0.096 ±	0.025	0.012 ±	0.0049	0.0086 ±	0.0035	
Akita,AKITA	14.7	1100	1280	0.055 ±	0.0097	0.050 ±	0.0088	0.016 ±	0.0051	0.012 ±	0.0040	
Mito,IBARAKI	17.1	487	2170	0.035 ±	0.0081	0.072 ±	0.017	0.010 ±	0.0048	0.0046 ±	0.0022	
Utsunomiya,TOCHIGI	15.1	417	2230	0.034 ±	0.0087	0.082 ±	0.021	0.019 ±	0.0053	0.0085 ±	0.0024	
Maebashi,GUNMA	18.0	562	2230	0.038 ±	0.0095	0.067 ±	0.017	0.017 ±	0.0056	0.0078 ±	0.0025	
Chiba,CHIBA	15.3	623	2340	0.024 ±	0.0090	0.039 ±	0.014	0.021 ±	0.0055	0.0091 ±	0.0023	
Shinjuku,TOKYO	12.6	333	1420	0.031 ±	0.0081	0.093 ±	0.024	0.0070 ±	0.0043	0.0049 ±	0.0030	
Hiratsuka,KANAGAWA	13.2	498	1810	0.031 ±	0.0082	0.061 ±	0.016	0.047 ±	0.0075	0.026 ±	0.0041	
Niigata,NIIGATA	19.8	649	2480	0.043 ±	0.0086	0.066 ±	0.013	0.010 ±	0.0051	0.0042 ±	0.0021	
Kanazawa,ISHIKAWA	11.8	355	1760	0.013 ±	0.0071	0.037 ±	0.020	0.020 ±	0.0055	0.011 ±	0.0031	
Kofu,YAMANASHI	9.69	358	1500	0.0055 ±	0.0069	0.015 ±	0.019	0.021 ±	0.0056	0.014 ±	0.0038	
Gifu,GIFU	15.2	391	2140	0.045 ±	0.0092	0.12 ±	0.023	0.016 ±	0.0049	0.0073 ±	0.0023	
Tsu,MIE	17.7	458	2640	0.046 ±	0.0090	0.10 ±	0.020	0.021 ±	0.0058	0.0080 ±	0.0022	
Otsu,SHIGA	13.9	442	2030	0.038 ±	0.0087	0.086 ±	0.020	0.021 ±	0.0058	0.010 ±	0.0028	
Kyoto,KYOTO	17.2	832	1980	0.016 ±	0.0062	0.019 ±	0.0075	0.017 ±	0.0053	0.0087 ±	0.0027	
Osaka,OSAKA	8.78	210	1130	0.026 ±	0.0079	0.12 ±	0.037	0.0078 ±	0.0044	0.0069 ±	0.0039	
Kakogawa,HYOGO	13.1	613	1640	0.030 ±	0.0091	0.048 ±	0.015	0.019 ±	0.0054	0.012 ±	0.0033	
Hiroshima,HIROSHIMA	12.3	310	1540	0.019 ±	0.0081	0.062 ±	0.026	0.020 ±	0.0056	0.013 ±	0.0036	
Yamaguchi,YAMAGUCHI	15.6	460	1810	0.021 ±	0.0080	0.045 ±	0.017	0.013 ±	0.0050	0.0073 ±	0.0028	
Tokushima,TOKUSHIMA	16.8	544	2200	0.0098 ±	0.0080	0.018 ±	0.015	0.017 ±	0.0051	0.0078 ±	0.0023	
Takamatsu,KAGAWA	40.6	438	2560	0.037 ±	0.0086	0.084 ±	0.020	0.019 ±	0.0057	0.0075 ±	0.0022	
Kochi,KOCHI	14.9	358	1820	0.038 ±	0.0087	0.11 ±	0.024	0.029 ±	0.0063	0.016 ±	0.0035	
Kumamoto,KUMAMOTO	17.7	586	2070	0.017 ±	0.0067	0.030 ±	0.011	0.019 ±	0.0055	0.0089 ±	0.0027	
Miyazaki,MIYAZAKI	16.7	661	2290	0.046 ±	0.0098	0.070 ±	0.015	0.023 ±	0.0062	0.0099 ±	0.0027	
Naha,OKINAWA	12.9	711	1660	0.045 ±	0.0090	0.063 ±	0.013	0.012 ±	0.0050	0.0075 ±	0.0030	

(9)-1

Strontium-90 and Cesium-137 in Rice (producing districts)
(from Apr.2008 to Mar.2009)

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

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90					Cs-137				
				(Bq/kg wet)		(Bq/g Ca)			(Bq/kg wet)		(Bq/g K)		
Aug.2008													
Gifu,GIFU	0.623	0.047	0.935	0.0000 ±	0.0034	0.000 ±	0.071	0.0083 ±	0.0041	0.0089 ±	0.0044		
Uruma,OKINAWA	0.603	0.030	0.965	0.0006 ±	0.0044	0.02 ±	0.15	0.0084 ±	0.0041	0.0087 ±	0.0043		
Sep.2008													
Hirosaki,AOMORI	0.512	0.037	0.686	0.012 ±	0.0055	0.32 ±	0.15	0.0017 ±	0.0064	0.0025 ±	0.0093		
Imizu,TOYAMA	0.650	0.041	0.943	0.010 ±	0.0057	0.25 ±	0.14	0.0028 ±	0.0038	0.0029 ±	0.0041		
Matsusaka,MIE	0.615	0.043	0.843	0.0063 ±	0.0052	0.15 ±	0.12	0.0030 ±	0.0042	0.0036 ±	0.0050		
Oct.2008													
Akita,AKITA	0.550	0.035	0.831	0.015 ±	0.0068	0.44 ±	0.19	0.0000 ±	0.0037	0.0000 ±	0.0044		
Chiba,CHIBA	0.703	0.040	0.724	0.0014 ±	0.0054	0.04 ±	0.13	0.0000 ±	0.0034	0.0000 ±	0.0046		
Niigata,NIIGATA	0.547	0.036	0.870	0.0081 ±	0.0057	0.22 ±	0.16	0.011 ±	0.0049	0.012 ±	0.0056		
Uchinada-machi,ISHIKAWA	0.651	0.039	0.853	0.0000 ±	0.0044	0.00 ±	0.11	0.0019 ±	0.0037	0.0023 ±	0.0043		
Azumino,NAGANO	0.648	0.040	0.674	0.0068 ±	0.0051	0.17 ±	0.13	0.0004 ±	0.0033	0.0006 ±	0.0049		
Higashi-oumi,SHIGA	0.583	0.036	0.670	0.0041 ±	0.0055	0.11 ±	0.15	0.0047 ±	0.0040	0.0070 ±	0.0060		
Kashihara,NARA	0.712	0.047	0.826	0.0066 ±	0.0056	0.14 ±	0.12	0.0036 ±	0.0036	0.0043 ±	0.0043		
Yamaguchi,YAMAGUCHI	0.810	0.050	1.22	0.014 ±	0.0069	0.29 ±	0.14	0.017 ±	0.0056	0.014 ±	0.0046		
Takamatsu,KAGAWA	0.559	0.039	0.771	0.010 ±	0.0066	0.26 ±	0.17	0.0031 ±	0.0039	0.0040 ±	0.0050		
Saga,SAGA	0.760	0.047	1.11	0.0078 ±	0.0057	0.17 ±	0.12	0.0051 ±	0.0037	0.0046 ±	0.0033		
Koshi,KUMAMOTO	0.815	0.036	0.888	0.0050 ±	0.0065	0.14 ±	0.18	0.0000 ±	0.0035	0.0000 ±	0.0039		
Usa,OITA	0.671	0.036	0.899	0.013 ±	0.0062	0.37 ±	0.18	0.0031 ±	0.0039	0.0035 ±	0.0044		
Miyazaki,MIYAZAKI	0.855	0.047	0.966	0.010 ±	0.0054	0.22 ±	0.11	0.0000 ±	0.0060	0.0000 ±	0.0062		
Nov.2008													
Ishikari,HOKKAIDO	0.693	0.038	0.880	0.0000 ±	0.0057	0.00 ±	0.15	0.0090 ±	0.0045	0.010 ±	0.0051		
Takizawa-mura,IWATE	0.639	0.038	1.05	0.0059 ±	0.0063	0.15 ±	0.16	0.015 ±	0.0049	0.014 ±	0.0047		
Ishinomaki,MIYAGI	0.592	0.044	0.906	0.0069 ±	0.0054	0.16 ±	0.12	0.0000 ±	0.0034	0.0000 ±	0.0038		
Fukushima,FUKUSHIMA	0.712	0.043	0.926	0.0077 ±	0.0054	0.18 ±	0.13	0.018 ±	0.0055	0.020 ±	0.0060		
Utsunomiya,TOCHIGI	0.647	0.038	0.476	0.0057 ±	0.0054	0.15 ±	0.14	0.0015 ±	0.0036	0.0032 ±	0.0075		
Maebashi,GUNMA	0.796	0.040	0.750	0.0057 ±	0.0054	0.14 ±	0.13	0.0048 ±	0.0040	0.0064 ±	0.0054		
Kasai,HYOGO	0.660	0.045	0.845	0.0000 ±	0.0051	0.00 ±	0.11	0.0036 ±	0.0042	0.0042 ±	0.0049		

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90					Cs-137				
				(Bq/kg wet)		(Bq/g Ca)			(Bq/kg wet)		(Bq/g K)		
Dec.2008													
Mito,IBARAKI	0.611	0.044	0.978	0.0089 ±	0.0055	0.20 ±	0.13	0.0068 ±	0.0045	0.0069 ±	0.0046		
Yokosuka,KANAGAWA	0.771	0.042	0.995	0.011 ±	0.0058	0.27 ±	0.14	0.0000 ±	0.0033	0.0000 ±	0.0033		
Hokuto,YAMANASHI	0.722	0.042	0.780	0.012 ±	0.0065	0.28 ±	0.15	0.0071 ±	0.0045	0.0091 ±	0.0058		
Chikushino,FUKUOKA	0.767	0.054	0.874	0.0052 ±	0.0052	0.096 ±	0.096	0.063 ±	0.0082	0.072 ±	0.0094		
Jan.2009													
Sasebo,NAGASAKI	0.861	0.050	0.746	0.0050 ±	0.0045	0.10 ±	0.091	0.028 ±	0.0081	0.037 ±	0.011		
Feb.2009													
Ishii-machi,TOKUSHIMA	0.618	0.042	0.588	0.0013 ±	0.0042	0.031 ±	0.098	0.0000 ±	0.0062	0.000 ±	0.010		

(9)-2

Strontium-90 and Cesium-137 in Rice (consuming districts)
(from Apr.2008 to Mar.2009)

Table (9)-2 : Strontium-90 and Cesium-137 in Rice (consuming districts)

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90					Cs-137				
				(Bq/kg wet)		(Bq/g Ca)			(Bq/kg wet)		(Bq/g K)		
Oct.2008													
Saitama,SAITAMA	0.555	0.036	0.616	0.0000 ±	0.0051	0.00	±	0.14	0.0015 ±	0.0037	0.0025 ±	0.0059	
Shinjuku,TOKYO	0.653	0.048	0.558	0.013 ±	0.0066	0.27	±	0.14	0.45 ±	0.019	0.80 ±	0.034	
Niigata,NIIGATA	0.607	0.039	0.710	0.010 ±	0.0058	0.27	±	0.15	0.0079 ±	0.0042	0.011 ±	0.0059	
Fukui,FUKUI	0.631	0.037	0.953	0.012 ±	0.0057	0.32	±	0.16	0.0020 ±	0.0034	0.0021 ±	0.0036	
Shingu,WAKAYAMA	0.634	0.041	0.926	0.0083 ±	0.0059	0.21	±	0.15	0.0028 ±	0.0042	0.0030 ±	0.0045	
Hiroshima,HIROSHIMA	0.605	0.039	0.684	0.0098 ±	0.0061	0.25	±	0.15	0.025 ±	0.0058	0.036 ±	0.0085	
Nov.2008													
Sapporo,HOKKAIDO	0.647	0.051	0.867	0.0000 ±	0.0054	0.00	±	0.11	0.0025 ±	0.0039	0.0028 ±	0.0045	
Yamagata,YAMAGATA	0.622	0.047	0.608	0.0085 ±	0.0057	0.18	±	0.12	0.013 ±	0.0047	0.022 ±	0.0076	
Chigasaki,KANAGAWA	0.590	0.041	0.797	0.021 ±	0.0065	0.52	±	0.16	0.031 ±	0.0059	0.038 ±	0.0075	
Shizuoka,SHIZUOKA	0.570	0.037	0.735	0.0075 ±	0.0060	0.20	±	0.16	0.0064 ±	0.0043	0.0087 ±	0.0059	
Kyoto,KYOTO	0.533	0.035	0.438	0.0069 ±	0.0061	0.20	±	0.18	0.0064 ±	0.0066	0.015 ±	0.015	
Osaka,OSAKA	0.608	0.046	0.924	0.0000 ±	0.0059	0.00	±	0.13	0.0076 ±	0.0046	0.0082 ±	0.0049	
Kobe,HYOGO	0.602	0.038	0.722	0.010 ±	0.0069	0.28	±	0.19	0.0000 ±	0.0037	0.0000 ±	0.0052	
Okayama,OKAYAMA	0.637	0.040	0.854	0.0014 ±	0.0046	0.03	±	0.12	0.0000 ±	0.0035	0.0000 ±	0.0041	
Uruma,OKINAWA	0.566	0.036	0.787	0.0000 ±	0.0046	0.00	±	0.13	0.0000 ±	0.0060	0.0000 ±	0.0076	
Dec.2008													
Nagoya,AICHI	0.534	0.039	0.780	0.0084 ±	0.0059	0.21	±	0.15	0.0008 ±	0.0039	0.0010 ±	0.0049	
Kurayoshi,TOTTORI	0.717	0.042	0.664	0.014 ±	0.0065	0.34	±	0.16	0.16 ±	0.012	0.24 ±	0.018	
Matsue,SHIMANE	0.687	0.043	0.893	0.0037 ±	0.0066	0.09	±	0.16	0.073 ±	0.0086	0.082 ±	0.0096	
Kasuga,FUKUOKA	0.639	0.043	0.799	0.0041 ±	0.0050	0.10	±	0.12	0.020 ±	0.0056	0.025 ±	0.0070	
Kagoshima,KAGOSHIMA	0.628	0.038	0.666	0.0048 ±	0.0058	0.13	±	0.15	0.014 ±	0.0051	0.021 ±	0.0076	
Jan.2009													
Matsuyama,EHIME	0.755	0.052	0.793	0.0097 ±	0.0058	0.19	±	0.11	0.0086 ±	0.0043	0.011 ±	0.0054	
Kochi,KOCHI	0.592	0.044	0.710	0.0038 ±	0.0044	0.09	±	0.10	0.0052 ±	0.0067	0.0073 ±	0.0095	

(10)-1

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

(from Apr.2008 to Mar.2009)

Table (10)-1 : Strontium-90 and Cesium-137 in Milk(producing districts)

Location	Ash (w/v%)	Ca (g/L)	K (g/L)	Sr-90				Cs-137					
				(Bq/L)		(Bq/g Ca)		(Bq/L)		(Bq/g K)			
May 2008													
Sapporo,HOKKAIDO	0.761	1.23	1.47	0.018	± 0.0072	0.015	± 0.0059	0.0095	± 0.0046	0.0065	± 0.0032		
Jun.2008													
Yuni-machi,HOKKAIDO	0.756	1.10	1.63	0.024	± 0.0081	0.022	± 0.0074	0.018	± 0.0054	0.011	± 0.0033		
Tobetsu-machi,HOKKAIDO	0.745	1.10	1.59	0.037	± 0.0090	0.034	± 0.0083	0.0055	± 0.0043	0.0035	± 0.0027		
Jul.2008													
Fujisawa,KANAGAWA	0.753	1.14	1.62	0.0060	± 0.0051	0.0053	± 0.0044	0.0020	± 0.0046	0.0013	± 0.0028		
Aug.2008													
Aomori,AOMORI	0.735	1.13	1.57	0.028	± 0.0077	0.025	± 0.0068	0.028	± 0.0058	0.018	± 0.0037		
Morioka,IWATE	0.775	1.10	1.41	0.012	± 0.0068	0.011	± 0.0062	0.022	± 0.0059	0.015	± 0.0042		
Mito,IBARAKI	0.715	1.07	1.51	0.0076	± 0.0051	0.0071	± 0.0048	0.0068	± 0.0040	0.0045	± 0.0027		
Nasushiobara,TOCHIGI	0.735	1.11	1.65	0.0014	± 0.0057	0.0013	± 0.0051	0.0086	± 0.0049	0.0052	± 0.0030		
Yachimata,CHIBA	0.748	1.11	1.50	0.012	± 0.0067	0.011	± 0.0061	0.0040	± 0.0042	0.0027	± 0.0028		
Hachioji,TOKYO	0.717	1.09	1.44	0.015	± 0.0068	0.014	± 0.0063	0.0024	± 0.0041	0.0016	± 0.0029		
Niigata,NIIGATA	0.751	1.09	1.58	0.012	± 0.0065	0.011	± 0.0060	0.0012	± 0.0041	0.0008	± 0.0026		
Tonami,TOYAMA	0.750	1.16	1.34	0.013	± 0.0070	0.011	± 0.0061	0.011	± 0.0050	0.0080	± 0.0037		
Hodatsushimizu-machi,ISHIKAWA	0.740	1.10	1.55	0.014	± 0.0068	0.013	± 0.0062	0.0020	± 0.0042	0.0013	± 0.0027		
Katsuyama,FUKUI	0.682	0.914	1.20	0.016	± 0.0064	0.017	± 0.0070	0.0031	± 0.0036	0.0026	± 0.0030		
Shinano-machi,NAGANO	0.725	1.13	1.58	0.014	± 0.0069	0.012	± 0.0061	0.0000	± 0.0041	0.0000	± 0.0026		
Hashima,GIFU	0.700	1.06	1.39	0.013	± 0.0066	0.012	± 0.0062	0.0000	± 0.0034	0.0000	± 0.0025		
Taiki-machi,MIE	0.729	1.08	1.41	0.018	± 0.0066	0.017	± 0.0062	0.010	± 0.0044	0.0074	± 0.0031		
Hino-machi,SHIGA	0.707	1.04	1.44	0.017	± 0.0076	0.017	± 0.0073	0.0000	± 0.0039	0.0000	± 0.0027		
Sakai,OSAKA	0.761	1.11	1.54	0.017	± 0.0072	0.015	± 0.0064	0.0064	± 0.0048	0.0041	± 0.0031		
Minamiawaji,HYOGO	0.721	1.12	1.42	0.0059	± 0.0062	0.0053	± 0.0055	0.0024	± 0.0042	0.0017	± 0.0030		
Uda,NARA	0.790	1.17	1.61	0.0012	± 0.0074	0.0010	± 0.0063	0.0040	± 0.0047	0.0025	± 0.0029		
Kotoura-machi,TOTTORI	0.707	1.04	1.41	0.025	± 0.0077	0.024	± 0.0074	0.0000	± 0.0038	0.0000	± 0.0027		
Matsue,SHIMANE	0.727	1.04	1.47	0.012	± 0.0059	0.012	± 0.0057	0.011	± 0.0044	0.0073	± 0.0030		
Kitahiroshima-machi,HIROSHIMA	0.733	1.08	1.49	0.011	± 0.0066	0.010	± 0.0061	0.0094	± 0.0051	0.0063	± 0.0034		
Kamiita-machi,TOKUSHIMA	0.724	1.06	1.46	0.0020	± 0.0059	0.0019	± 0.0055	0.0024	± 0.0042	0.0017	± 0.0029		
Mitoyo,KAGAWA	0.734	1.14	1.59	0.012	± 0.0064	0.010	± 0.0057	0.0000	± 0.0043	0.0000	± 0.0027		

Location	Ash (w/v%)	Ca (g/L)	K (g/L)	Sr-90				Cs-137			
				(Bq/L)		(Bq/g Ca)		(Bq/L)		(Bq/g K)	
Touon,EHIME	0.700	1.04	1.48	0.0000 ±	0.0061	0.0000 ±	0.0059	0.0076 ±	0.0040	0.0052 ±	0.0027
Kochi,KOCHI	0.733	1.06	1.52	0.035 ±	0.0084	0.033 ±	0.0079	0.015 ±	0.0048	0.010 ±	0.0032
Chikuzen-machi,FUKUOKA	0.701	1.06	1.46	0.014 ±	0.0061	0.014 ±	0.0057	0.011 ±	0.0050	0.0077 ±	0.0034
Saga,SAGA	0.769	1.12	1.64	0.0035 ±	0.0059	0.0031 ±	0.0053	0.019 ±	0.0056	0.012 ±	0.0034
Koshi,KUMAMOTO	0.723	1.20	1.57	0.023 ±	0.0075	0.020 ±	0.0062	0.0032 ±	0.0046	0.0020 ±	0.0029
Taketa,OITA	0.773	1.19	1.53	0.011 ±	0.0066	0.0088 ±	0.0056	0.022 ±	0.0056	0.014 ±	0.0037
Takaharu-machi,MIYAZAKI	0.753	1.09	1.50	0.0096 ±	0.0066	0.0088 ±	0.0060	0.013 ±	0.0050	0.0086 ±	0.0033
Kanoya,KAGOSHIMA	0.758	1.08	1.56	0.016 ±	0.0071	0.015 ±	0.0066	0.0072 ±	0.0046	0.0046 ±	0.0029
Oct.2008											
Maebashi,GUNMA	0.738	1.11	1.54	0.0069 ±	0.0064	0.0062 ±	0.0058	0.0000 ±	0.0034	0.0000 ±	0.0022
Hokuto,YAMANASHI	0.761	1.17	1.45	0.028 ±	0.0080	0.024 ±	0.0068	0.0072 ±	0.0050	0.0050 ±	0.0034
Jan.2009											
Sasebo,NAGASAKI	0.761	1.14	1.48	0.0036 ±	0.0042	0.0032 ±	0.0036	0.018 ±	0.0044	0.012 ±	0.0030

(10)-2

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

(from Apr.2008 to Mar.2009)

Table (10)-2 : Strontium-90 and Cesium-137 in Milk(consuming districts)

Location	Ash (w/v%)	Ca (g/L)	K (g/L)	Sr-90				Cs-137					
				(Bq/L)		(Bq/g Ca)		(Bq/L)		(Bq/g K)			
May 2008													
Sapporo,HOKKAIDO	0.747	1.20	1.58	0.027	± 0.0078	0.022	± 0.0065	0.029	± 0.0064	0.018	± 0.0041		
Jun.2008													
Fukushima,FUKUSHIMA	0.742	1.08	1.49	0.022	± 0.0070	0.021	± 0.0065	0.012	± 0.0045	0.0081	± 0.0030		
Jul.2008													
Rifu-machi,MIYAGI	0.735	1.05	1.52	0.012	± 0.0071	0.012	± 0.0068	0.0072	± 0.0045	0.0048	± 0.0030		
Aug.2008													
Akita,AKITA	0.717	1.08	1.48	0.020	± 0.0074	0.019	± 0.0069	0.080	± 0.0091	0.054	± 0.0062		
Yamagata,YAMAGATA	0.752	1.12	1.56	0.0064	± 0.0058	0.0057	± 0.0051	0.0064	± 0.0049	0.0041	± 0.0031		
Saitama,SAITAMA	0.722	1.16	1.55	0.023	± 0.0074	0.020	± 0.0064	0.040	± 0.0067	0.026	± 0.0043		
Shinjuku,TOKYO	0.738	1.09	1.45	0.023	± 0.0074	0.021	± 0.0068	0.0097	± 0.0044	0.0067	± 0.0031		
Chigasaki,KANAGAWA	0.745	1.15	1.60	0.022	± 0.0076	0.019	± 0.0066	0.0043	± 0.0041	0.0027	± 0.0026		
Niigata,NIIGATA	0.742	1.11	1.54	0.021	± 0.0073	0.019	± 0.0066	0.0056	± 0.0044	0.0036	± 0.0029		
Fukui,FUKUI	0.919	1.08	1.42	0.015	± 0.0062	0.013	± 0.0057	0.015	± 0.0052	0.010	± 0.0037		
Shizuoka,SHIZUOKA	0.749	1.08	1.49	0.019	± 0.0074	0.017	± 0.0069	0.0059	± 0.0045	0.0040	± 0.0030		
Nagoya,AICHI	0.726	1.07	1.44	0.0060	± 0.0060	0.0055	± 0.0055	0.0049	± 0.0047	0.0034	± 0.0033		
Kyoto,KYOTO	0.734	1.09	1.53	0.021	± 0.0067	0.019	± 0.0061	0.012	± 0.0045	0.0076	± 0.0029		
Osaka,OSAKA	0.740	1.10	1.59	0.044	± 0.0090	0.040	± 0.0081	0.062	± 0.0079	0.039	± 0.0050		
Matsue,SHIMANE	0.745	1.07	1.50	0.0055	± 0.0061	0.0051	± 0.0056	0.012	± 0.0048	0.0080	± 0.0032		
Okayama,OKAYAMA	0.745	1.09	1.47	0.015	± 0.0068	0.014	± 0.0062	0.0053	± 0.0040	0.0036	± 0.0027		
Hiroshima,HIROSHIMA	0.718	1.06	1.46	0.020	± 0.0075	0.019	± 0.0071	0.029	± 0.0065	0.020	± 0.0044		
Yamaguchi,YAMAGUCHI	0.728	1.10	1.48	0.015	± 0.0070	0.013	± 0.0064	0.011	± 0.0049	0.0077	± 0.0033		
Touon,EHIME	0.697	1.03	1.45	0.013	± 0.0074	0.013	± 0.0072	0.0044	± 0.0037	0.0030	± 0.0025		
Kochi,KOCHI	0.725	1.07	1.50	0.0095	± 0.0068	0.0088	± 0.0063	0.0032	± 0.0041	0.0021	± 0.0027		
Chikushino,FUKUOKA	0.696	1.09	1.48	0.026	± 0.0078	0.024	± 0.0072	0.010	± 0.0051	0.0068	± 0.0034		
Kagoshima,KAGOSHIMA	0.742	1.08	1.50	0.015	± 0.0067	0.014	± 0.0062	0.0000	± 0.0037	0.0000	± 0.0025		
Sep.2008													
Uruma,OKINAWA	0.729	1.17	1.51	0.020	± 0.0071	0.017	± 0.0061	0.0047	± 0.0047	0.0031	± 0.0031		
Oct.2008													
Shingu,WAKAYAMA	0.676	1.02	1.35	0.013	± 0.0060	0.013	± 0.0059	0.0000	± 0.0040	0.0000	± 0.0030		

(10)-3

Strontium-90 and Cesium-137 in Milk(powdered milk)
(from Apr.2008 to Mar.2009)

Table (10)-3 : Strontium-90 and Cesium-137 in Milk(powdered milk)

Location	Ash (%)	Ca (g/kg)	K (g/kg)	Sr-90					Cs-137				
				(Bq/kg)		(Bq/g Ca)			(Bq/kg)		(Bq/g K)		
May 2008													
Sample A	7.84	11.8	16.9	0.16	± 0.020	0.014	± 0.0017	0.058	± 0.010	0.0034	± 0.00061		
Sample B	2.65	3.74	5.83	0.027	± 0.0083	0.0073	± 0.0022	0.27	± 0.015	0.047	± 0.0026		
Sample D	2.40	3.60	5.21	0.0078	± 0.0066	0.0022	± 0.0018	0.0027	± 0.0044	0.00053	± 0.00084		
Sample E	3.78	6.43	7.18	0.059	± 0.010	0.0091	± 0.0016	0.058	± 0.0082	0.0081	± 0.0011		
Sample F	2.63	3.73	5.73	0.025	± 0.0080	0.0068	± 0.0021	0.096	± 0.0096	0.017	± 0.0017		
Jun.2008													
Sample C	7.84	11.8	16.9	0.37	± 0.029	0.031	± 0.0024	0.37	± 0.023	0.022	± 0.0013		
Oct.2008													
Sample A	7.90	11.8	15.8	0.14	± 0.020	0.012	± 0.0017	0.10	± 0.013	0.0063	± 0.00084		
Sample B	2.65	3.76	5.41	0.028	± 0.0083	0.0075	± 0.0022	0.081	± 0.0094	0.015	± 0.0017		
Sample C	7.89	12.1	15.7	0.34	± 0.028	0.028	± 0.0023	1.2	± 0.04	0.075	± 0.0025		
Sample D	2.40	3.60	4.90	0.0061	± 0.0061	0.0017	± 0.0017	0.0053	± 0.0050	0.0011	± 0.0010		
Sample E	3.79	6.52	6.90	0.068	± 0.011	0.010	± 0.0017	0.042	± 0.0079	0.0061	± 0.0011		
Sample F	2.57	3.65	5.17	0.020	± 0.0076	0.0055	± 0.0021	0.080	± 0.0092	0.015	± 0.0018		

(11)-1

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

(from Apr.2008 to Mar.2009)

Table (11)-1 : Strontium-90 and Cesium-137 in Vegetables(producing districts)

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90					Cs-137						
				(Bq/kg wet)		(Bq/g Ca)			(Bq/kg wet)		(Bq/g K)				
<u>(Leafy vegetables)</u>															
May 2008															
Tahara,AICHI	1.72	0.521	5.83	0.044	±	0.0087	0.085	±	0.017	0.0000	±	0.0037	0.00000	±	0.00063
Uruma,OKINAWA	0.614	0.391	2.25	0.021	±	0.0063	0.053	±	0.016	0.0000	±	0.0039	0.0000	±	0.0017
Jun.2008															
Niigata,NIIGATA	1.50	0.612	4.55	0.051	±	0.0090	0.084	±	0.015	0.0079	±	0.0050	0.0017	±	0.0011
Jul.2008															
Oda,SHIMANE	1.07	0.821	3.45	0.27	±	0.020	0.33	±	0.024	0.087	±	0.0091	0.025	±	0.0026
Aug.2008															
Eniwa,HOKKAIDO	1.70	0.401	6.41	0.071	±	0.011	0.18	±	0.028	0.068	±	0.0085	0.011	±	0.0013
Gosyogawara,AOMORI	0.430	0.197	1.44	0.062	±	0.012	0.32	±	0.059	0.0012	±	0.0036	0.0008	±	0.0025
Oct.2008															
Oirase-machi,AOMORI	0.431	0.303	1.53	0.021	±	0.0075	0.070	±	0.025	0.0004	±	0.0029	0.0003	±	0.0019
Morioka,IWATE	0.635	0.474	2.09	0.070	±	0.011	0.15	±	0.024	0.0081	±	0.0045	0.0039	±	0.0021
Akita,AKITA	0.573	0.482	1.82	0.024	±	0.0073	0.049	±	0.015	0.0000	±	0.0035	0.0000	±	0.0019
Chiba,CHIBA	2.05	0.439	7.54	0.014	±	0.0072	0.031	±	0.016	0.0000	±	0.0037	0.00000	±	0.00049
Matsuyama,EHIME	1.08	0.328	3.21	0.016	±	0.0062	0.048	±	0.019	0.015	±	0.0052	0.0047	±	0.0016
Saga,SAGA	1.60	0.480	6.51	0.0048	±	0.0060	0.010	±	0.012	0.011	±	0.0048	0.0017	±	0.00073
Usa,OITA	1.90	0.705	6.92	0.036	±	0.0095	0.050	±	0.013	0.0077	±	0.0038	0.0011	±	0.00055
Nov.2008															
Fukushima,FUKUSHIMA	1.95	0.527	7.59	0.024	±	0.0075	0.046	±	0.014	0.0000	±	0.0028	0.00000	±	0.00037
Utsunomiya,TOCHIGI	1.86	0.629	6.83	0.043	±	0.0092	0.068	±	0.015	0.0020	±	0.0036	0.00030	±	0.00053
Maebashi,GUNMA	1.75	0.590	6.51	0.020	±	0.0077	0.033	±	0.013	0.0061	±	0.0041	0.00094	±	0.00062
Toyama,TOYAMA	1.98	1.20	6.97	0.28	±	0.021	0.24	±	0.017	0.015	±	0.0048	0.0021	±	0.00069
Awara,FUKUI	2.11	0.376	8.88	0.019	±	0.0072	0.050	±	0.019	0.0085	±	0.0043	0.00096	±	0.00048
Saku,NAGANO	1.68	0.529	5.83	0.024	±	0.0079	0.045	±	0.015	0.0044	±	0.0039	0.00075	±	0.00067
Kakamigahara,GIFU	1.84	0.935	7.40	0.018	±	0.0062	0.019	±	0.0066	0.0082	±	0.0049	0.0011	±	0.00066
Gotenba,SHIZUOKA	2.11	0.616	7.09	0.057	±	0.011	0.092	±	0.017	0.059	±	0.0081	0.0084	±	0.0011
Yokkaichi,MIE	1.47	0.948	5.28	0.015	±	0.0070	0.016	±	0.0074	0.0017	±	0.0038	0.00032	±	0.00071
Kasai,HYOGO	2.09	0.640	7.21	0.049	±	0.0097	0.077	±	0.015	0.0043	±	0.0041	0.00059	±	0.00057

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90				Cs-137				
				(Bq/kg wet)		(Bq/g Ca)		(Bq/kg wet)		(Bq/g K)		
Yurihama-machi,TOTTORI	1.72	0.409	6.24	0.0058 ±	0.0056	0.014 ±	0.014	0.0000 ±	0.0025	0.00000 ±	0.00041	
Takamatsu,KAGAWA	1.46	0.894	4.20	0.017 ±	0.0071	0.019 ±	0.0079	0.0067 ±	0.0043	0.0016 ±	0.0010	
Shime-machi,FUKUOKA	1.74	0.619	7.12	0.013 ±	0.0057	0.021 ±	0.0092	0.0000 ±	0.0034	0.00000 ±	0.00048	
Koshi,KUMAMOTO	1.77	0.324	7.03	0.032 ±	0.0086	0.099 ±	0.027	0.0058 ±	0.0039	0.00083 ±	0.00056	
Dec.2008												
Mito,IBARAKI	1.80	0.848	6.68	0.088 ±	0.012	0.10 ±	0.014	0.0091 ±	0.0048	0.0014 ±	0.00072	
Hokuto,YAMANASHI	1.68	1.01	5.24	0.22 ±	0.018	0.21 ±	0.018	0.0018 ±	0.0044	0.00035 ±	0.00083	
Azuchi-machi,SHIGA	1.69	0.416	7.44	0.049 ±	0.0093	0.12 ±	0.022	0.0012 ±	0.0041	0.00017 ±	0.00055	
Uda,NARA	1.87	0.327	7.24	0.025 ±	0.0074	0.075 ±	0.023	0.0000 ±	0.0042	0.00000 ±	0.00058	
Hiroshima,HIROSHIMA	1.58	0.689	5.44	0.047 ±	0.0094	0.069 ±	0.014	0.0082 ±	0.0045	0.0015 ±	0.00082	
Nankoku,KOCHI	1.93	0.896	6.79	0.053 ±	0.010	0.060 ±	0.011	0.0066 ±	0.0041	0.00097 ±	0.00060	
Takanabe-machi,MIYAZAKI	2.08	0.718	8.55	0.21 ±	0.020	0.30 ±	0.028	0.0087 ±	0.0040	0.0010 ±	0.00047	
Kagoshima,KAGOSHIMA	1.65	0.480	3.91	0.030 ±	0.0080	0.063 ±	0.017	0.042 ±	0.0069	0.011 ±	0.0018	
Jan.2009												
Yokosuka,KANAGAWA	2.02	0.780	8.26	0.058 ±	0.011	0.074 ±	0.015	0.012 ±	0.0047	0.0015 ±	0.00057	
Kumatori-machi,OSAKA	0.639	0.391	2.36	0.046 ±	0.010	0.12 ±	0.026	0.0000 ±	0.0032	0.0000 ±	0.0014	
Shingu,WAKAYAMA	0.666	0.188	2.74	0.019 ±	0.0073	0.10 ±	0.039	0.024 ±	0.0052	0.0087 ±	0.0019	
Sasebo,NAGASAKI	1.75	0.429	6.21	0.078 ±	0.012	0.18 ±	0.028	0.021 ±	0.0054	0.0034 ±	0.00087	
Feb.2009												
Nagato,YAMAGUCHI	1.54	0.684	5.51	0.081 ±	0.013	0.12 ±	0.020	0.033 ±	0.0065	0.0061 ±	0.0012	
Ishii-machi,TOKUSHIMA	1.55	0.451	4.85	0.0082 ±	0.0056	0.018 ±	0.012	0.0004 ±	0.0043	0.00009 ±	0.00090	
<u>(Root vegetables)</u>												

May 2008												
Tahara,AICHI	0.670	0.270	2.53	0.013 ±	0.0055	0.046 ±	0.021	0.0000 ±	0.0035	0.0000 ±	0.0014	
Uruma,OKINAWA	0.815	0.334	2.51	0.033 ±	0.0073	0.098 ±	0.022	0.0000 ±	0.0037	0.0000 ±	0.0015	
Jun.2008												
Koshi,KUMAMOTO	0.619	0.167	2.66	0.063 ±	0.010	0.37 ±	0.063	0.0031 ±	0.0041	0.0012 ±	0.0015	
Jul.2008												
Gosyogawara,AOMORI	0.877	0.0346	3.88	0.016 ±	0.0078	0.46 ±	0.22	0.021 ±	0.0055	0.0055 ±	0.0014	
Kumatori-machi,OSAKA	0.438	0.128	1.39	0.017 ±	0.0069	0.13 ±	0.054	0.0023 ±	0.0040	0.0017 ±	0.0029	
Oda,SHIMANE	0.639	0.166	2.61	0.20 ±	0.017	1.2 ±	0.10	0.049 ±	0.0071	0.019 ±	0.0027	
Aug.2008												
Eniwa,HOKKAIDO	0.447	0.139	1.61	0.084 ±	0.012	0.60 ±	0.088	0.012 ±	0.0049	0.0076 ±	0.0030	
Utsunomiya,TOCHIGI	1.24	0.439	3.89	0.44 ±	0.026	1.0 ±	0.059	0.060 ±	0.0079	0.015 ±	0.0020	

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90					Cs-137				
				(Bq/kg wet)		(Bq/g Ca)			(Bq/kg wet)		(Bq/g K)		
Oct.2008													
Oirase-machi,AOMORI	0.473	0.170	1.72	0.10	± 0.013	0.61	± 0.077	0.0000	± 0.0032	0.0000	± 0.0019		
Morioka,IWATE	0.556	0.274	2.20	0.057	± 0.010	0.21	± 0.037	0.0024	± 0.0039	0.0011	± 0.0018		
Akita,AKITA	0.544	0.360	1.84	0.056	± 0.0097	0.16	± 0.027	0.0040	± 0.0044	0.0022	± 0.0024		
Chiba,CHIBA	0.757	0.204	2.70	0.088	± 0.012	0.43	± 0.061	0.0016	± 0.0038	0.0006	± 0.0014		
Takashima,SHIGA	0.711	0.132	2.30	0.089	± 0.013	0.67	± 0.095	0.0000	± 0.0037	0.0000	± 0.0016		
Saga,SAGA	0.830	0.275	3.60	0.032	± 0.0085	0.12	± 0.031	0.0000	± 0.0029	0.00000	± 0.00079		
Nov.2008													
Fukushima,FUKUSHIMA	0.449	0.253	1.57	0.038	± 0.0085	0.15	± 0.034	0.0064	± 0.0040	0.0041	± 0.0025		
Maebashi,GUNMA	0.575	0.201	2.36	0.030	± 0.0086	0.15	± 0.043	0.0077	± 0.0042	0.0033	± 0.0018		
Imizu,TOYAMA	0.595	0.158	2.32	0.017	± 0.0065	0.10	± 0.041	0.0012	± 0.0033	0.0005	± 0.0014		
Sakai,FUKUI	0.443	0.210	1.50	0.025	± 0.0080	0.12	± 0.038	0.0008	± 0.0031	0.0005	± 0.0021		
Saku,NAGANO	0.651	0.265	2.40	0.012	± 0.0066	0.046	± 0.025	0.0039	± 0.0035	0.0016	± 0.0015		
Kakamigahara,GIFU	0.594	0.150	2.27	0.035	± 0.0093	0.24	± 0.062	0.0000	± 0.0040	0.0000	± 0.0017		
Gotenba,SHIZUOKA	0.603	0.228	2.09	0.016	± 0.0077	0.070	± 0.034	0.034	± 0.0063	0.016	± 0.0030		
Hamamatsu,SHIZUOKA	0.568	0.177	2.35	0.0076	± 0.0051	0.043	± 0.029	0.0004	± 0.0036	0.0002	± 0.0015		
Kasai,HYOGO	0.476	0.188	1.84	0.028	± 0.0079	0.15	± 0.042	0.0031	± 0.0037	0.0017	± 0.0020		
Takamatsu,KAGAWA	0.537	0.165	2.04	0.011	± 0.0071	0.069	± 0.043	0.0000	± 0.0033	0.0000	± 0.0016		
Shime-machi,FUKUOKA	0.561	0.161	2.36	0.021	± 0.0067	0.13	± 0.042	0.0000	± 0.0028	0.0000	± 0.0012		
Usa,OITA	0.529	0.213	1.97	0.059	± 0.010	0.28	± 0.049	0.0012	± 0.0030	0.0006	± 0.0015		
Dec.2008													
Mito,IBARAKI	0.824	0.395	3.21	0.032	± 0.0076	0.080	± 0.019	0.0004	± 0.0041	0.0001	± 0.0013		
Niigata,NIIGATA	0.488	0.158	1.83	0.055	± 0.010	0.35	± 0.064	0.0000	± 0.0030	0.0000	± 0.0016		
Hokuto,YAMANASHI	0.518	0.220	1.88	0.033	± 0.0089	0.15	± 0.040	0.0004	± 0.0034	0.0002	± 0.0018		
Meiwa-machi,MIE	0.670	0.205	2.77	0.097	± 0.013	0.47	± 0.062	0.0091	± 0.0039	0.0033	± 0.0014		
Uda,NARA	0.517	0.184	1.99	0.026	± 0.0074	0.14	± 0.040	0.0000	± 0.0034	0.0000	± 0.0017		
Tottori,TOTTORI	0.331	0.119	1.25	0.058	± 0.010	0.49	± 0.086	0.0035	± 0.0037	0.0028	± 0.0029		
Hiroshima,HIROSHIMA	0.570	0.241	2.15	0.045	± 0.0095	0.19	± 0.039	0.0012	± 0.0034	0.0005	± 0.0016		
Muroto,KOCHI	0.495	0.156	1.58	0.012	± 0.0067	0.078	± 0.043	0.0040	± 0.0037	0.0025	± 0.0023		
Takanabe-machi,MIYAZAKI	0.521	0.199	2.07	0.053	± 0.010	0.27	± 0.050	0.0045	± 0.0035	0.0022	± 0.0017		
Ibusuki,KAGOSHIMA	0.710	0.180	2.16	0.022	± 0.0068	0.12	± 0.038	0.0028	± 0.0035	0.0013	± 0.0016		
Jan.2009													
Yokosuka,KANAGAWA	0.469	0.205	1.60	0.039	± 0.0095	0.19	± 0.046	0.0048	± 0.0039	0.0030	± 0.0025		
Shingu,WAKAYAMA	0.451	0.156	1.60	0.032	± 0.0083	0.21	± 0.053	0.012	± 0.0041	0.0072	± 0.0026		

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90						Cs-137					
				(Bq/kg wet)			(Bq/g Ca)			(Bq/kg wet)		(Bq/g K)			
Sasebo,NAGASAKI Feb.2009	0.466	0.154	1.72	0.098	±	0.013	0.63	±	0.086	0.0060	±	0.0040	0.0035	±	0.0023
Nagato,YAMAGUCHI	0.564	0.222	2.03	0.030	±	0.0091	0.14	±	0.041	0.0056	±	0.0040	0.0028	±	0.0020
Ishii-machi,TOKUSHIMA	0.589	0.220	1.88	0.029	±	0.0075	0.13	±	0.034	0.0000	±	0.0038	0.0000	±	0.0020

(11)-2

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

(from Apr.2008 to Mar.2009)

Table (11)-2 : Strontium-90 and Cesium-137 in Vegetables(consuming districts)

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90					Cs-137				
				(Bq/kg wet)		(Bq/g Ca)			(Bq/kg wet)		(Bq/g K)		
<u>(Leafy vegetables)</u>													
Jul.2008													
Rifu-machi,MIYAGI	2.05	0.424	6.62	0.048	± 0.0093	0.11	± 0.022	0.0000	± 0.0038	0.00000	± 0.00058		
Sep.2008													
Saitama,SAITAMA	1.85	0.570	7.27	0.031	± 0.0084	0.055	± 0.015	0.0000	± 0.0033	0.00000	± 0.00045		
Kanazawa,ISHIKAWA	2.22	0.557	7.88	0.063	± 0.011	0.11	± 0.019	0.020	± 0.0054	0.0025	± 0.00068		
Oct.2008													
Yamagata,YAMAGATA	2.23	0.546	8.38	0.034	± 0.0083	0.062	± 0.015	0.0000	± 0.0036	0.00000	± 0.00043		
Matsuyama,EHIME	2.50	0.705	10.4	0.0059	± 0.0050	0.0084	± 0.0071	0.0085	± 0.0051	0.00082	± 0.00049		
Nov.2008													
Shinjuku,TOKYO	1.66	0.694	6.69	0.019	± 0.0079	0.027	± 0.011	0.056	± 0.0078	0.0084	± 0.0012		
Kyoto,KYOTO	1.59	0.453	5.61	0.022	± 0.0074	0.050	± 0.016	0.015	± 0.0052	0.0026	± 0.00093		
Osaka,OSAKA	1.66	0.525	5.63	0.018	± 0.0070	0.034	± 0.013	0.0035	± 0.0047	0.00062	± 0.00084		
Okayama,OKAYAMA	1.74	0.489	7.66	0.037	± 0.0082	0.076	± 0.017	0.010	± 0.0048	0.0014	± 0.00062		
<u>(Root vegetables)</u>													
Sep.2008													
Rifu-machi,MIYAGI	0.681	0.150	2.29	0.030	± 0.0084	0.20	± 0.056	0.0094	± 0.0042	0.0041	± 0.0018		
Saitama,SAITAMA	0.445	0.263	1.46	0.024	± 0.0078	0.091	± 0.030	0.020	± 0.0051	0.014	± 0.0035		
Oct.2008													
Yamagata,YAMAGATA	0.542	0.202	2.15	0.041	± 0.0090	0.21	± 0.045	0.0008	± 0.0035	0.0004	± 0.0016		
Kanazawa,ISHIKAWA	0.521	0.188	1.83	0.0090	± 0.0066	0.048	± 0.035	0.097	± 0.0093	0.053	± 0.0051		
Nov.2008													
Shinjuku,TOKYO	0.424	0.315	1.41	0.029	± 0.0084	0.091	± 0.027	0.0063	± 0.0043	0.0045	± 0.0030		
Kyoto,KYOTO	0.635	0.178	2.51	0.0075	± 0.0058	0.042	± 0.033	0.0040	± 0.0042	0.0016	± 0.0017		
Osaka,OSAKA	0.584	0.179	1.80	0.031	± 0.0083	0.17	± 0.046	0.010	± 0.0049	0.0057	± 0.0027		
Okayama,OKAYAMA	0.569	0.144	2.13	0.012	± 0.0058	0.084	± 0.040	0.0053	± 0.0042	0.0025	± 0.0020		

(12) Strontium-90 and Cesium-137 in Tea (Japanese tea)

(from Apr.2008 to Mar.2009)

Table (12) : Strontium-90 and Cesium-137 in Tea (Japanese tea)

Location	Ash (%)	Ca (g/kg)	K (g/kg)	Sr-90						Cs-137					
				(Bq/kg)			(Bq/g Ca)			(Bq/kg)		(Bq/g K)			
Apr.2008															
Mifune-machi,KUMAMOTO	5.45	1.83	18.2	0.083	±	0.027	0.045	±	0.015	0.098	±	0.021	0.0054	±	0.0012
May 2008															
Iruma,SAITAMA	5.13	1.96	18.3	0.15	±	0.030	0.075	±	0.015	0.12	±	0.022	0.0064	±	0.0012
Shirakawa-machi,GIFU	5.38	2.08	17.9	0.18	±	0.037	0.087	±	0.018	0.080	±	0.020	0.0044	±	0.0011
Ikeda-machi,GIFU	5.18	2.80	18.0	0.29	±	0.042	0.11	±	0.015	0.10	±	0.021	0.0056	±	0.0012
Iwata,SHIZUOKA*	1.36	0.620	4.65	0.032	±	0.0080	0.051	±	0.013	0.0084	±	0.0041	0.0018	±	0.00089
Izu,SHIZUOKA*	1.38	0.673	5.01	0.27	±	0.019	0.41	±	0.028	0.020	±	0.0052	0.0041	±	0.0010
Kameyama,MIE	5.82	2.60	18.0	0.39	±	0.048	0.15	±	0.018	0.078	±	0.021	0.0043	±	0.0012
Odai-machi,MIE	5.22	2.07	18.2	0.17	±	0.033	0.084	±	0.016	0.099	±	0.021	0.0054	±	0.0012
Uji,KYOTO	4.77	2.99	16.6	0.98	±	0.068	0.33	±	0.023	0.027	±	0.014	0.0016	±	0.00086
Wazuka-machi,KYOTO	5.80	2.77	20.7	0.22	±	0.040	0.078	±	0.015	0.061	±	0.020	0.0030	±	0.00095
Nara,NARA	5.04	2.37	18.6	0.16	±	0.033	0.066	±	0.014	0.20	±	0.027	0.011	±	0.0014
Asagiri-machi,KUMAMOTO	5.52	3.18	16.6	0.15	±	0.032	0.046	±	0.010	0.33	±	0.035	0.020	±	0.0021
Miyakonojo,MIYAZAKI	5.02	3.56	16.0	0.15	±	0.031	0.041	±	0.0087	0.51	±	0.040	0.032	±	0.0025
Kawaminami-machi,MIYAZAKI	5.94	2.45	20.3	0.22	±	0.040	0.091	±	0.016	0.78	±	0.054	0.039	±	0.0026
Minamikyushu,KAGOSHIMA	5.40	2.88	18.4	0.21	±	0.039	0.071	±	0.013	0.82	±	0.053	0.045	±	0.0029
Jun.2008															
Tokorozawa,SAITAMA	5.54	2.40	18.2	0.49	±	0.052	0.20	±	0.022	0.49	±	0.042	0.027	±	0.0023
Nara,NARA	6.87	2.80	20.5	0.26	±	0.047	0.093	±	0.017	0.16	±	0.030	0.0078	±	0.0015
Nachikatsuura-machi,WAKAYAMA	5.48	2.46	18.8	0.63	±	0.060	0.26	±	0.024	0.35	±	0.035	0.018	±	0.0019
Jul.2008															
Satsuma-machi,KAGOSHIMA	6.04	2.45	21.3	0.33	±	0.045	0.13	±	0.018	0.57	±	0.048	0.027	±	0.0023

* g/kg wet : Ca,K

Bq/kg wet : Sr-90,Cs-137

(13) Strontium-90 and Cesium-137 in Sea fish

(from Apr.2008 to Mar.2009)

Table (13) : Strontium-90 and Cesium-137 in Sea fish

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90			Cs-137					
				(Bq/kg wet)		(Bq/g Ca)	(Bq/kg wet)		(Bq/g K)			
<u>(Ammodytes personatus)</u>												
Apr.2008												
Kobe,HYOGO	2.27	2.29	4.86	0.0063 ±	0.0057	0.0028 ±	0.0025	0.051 ±	0.0074	0.010 ±	0.0015	
<u>(Branchiostegus sp.)</u>												
Nov.2008												
Nagasaki,NAGASAKI	1.32	0.663	3.70	0.0045 ±	0.0052	0.0068 ±	0.0079	0.089 ±	0.0092	0.024 ±	0.0025	
<u>(Decapterus muroadsi)</u>												
Oct.2008												
Hachijo-machi,TOKYO	1.77	2.09	3.88	0.0041 ±	0.0054	0.0020 ±	0.0026	0.12 ±	0.011	0.031 ±	0.0027	
<u>(Gadus macrocephalus)</u>												
Jan.2009												
Kushiro,HOKKAIDO	1.40	0.423	3.82	0.010 ±	0.0065	0.024 ±	0.015	0.16 ±	0.012	0.042 ±	0.0032	
<u>(Hexagrammos otakii)</u>												
Sep.2008												
Soma,FUKUSHIMA	1.17	0.321	3.36	0.015 ±	0.0067	0.045 ±	0.021	0.077 ±	0.0085	0.023 ±	0.0025	
<u>(Hippoglossoides dubius)</u>												
Nov.2008												
Sado,NIIGATA	1.38	0.559	3.57	0.0000 ±	0.0040	0.0000 ±	0.0072	0.065 ±	0.0085	0.018 ±	0.0024	
<u>(Katsuwonus pelamis)</u>												
May 2008												
Kuroshio-machi,KOCHI	1.26	0.0706	3.63	0.0014 ±	0.0055	0.019 ±	0.077	0.16 ±	0.012	0.043 ±	0.0032	
<u>(Mugil cephalus cephalus)</u>												
Aug.2008												
Saga,SAGA	1.46	0.927	3.65	0.0000 ±	0.0048	0.0000 ±	0.0052	0.051 ±	0.0073	0.014 ±	0.0020	
Nov.2008												
Setouchi,OKAYAMA	1.46	0.466	4.09	0.0069 ±	0.0053	0.015 ±	0.011	0.065 ±	0.0082	0.016 ±	0.0020	
<u>(Oncorhynchus keta)</u>												
Sep.2008												
Urakawa-machi,HOKKAIDO	1.41	0.637	3.64	0.0000 ±	0.0052	0.0000 ±	0.0082	0.048 ±	0.0073	0.013 ±	0.0020	

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90				Cs-137					
				(Bq/kg wet)		(Bq/g Ca)		(Bq/kg wet)		(Bq/g K)			
<u>(Pleuronectidae)</u>													
Jul.2008													
Rifu-machi,MIYAGI	3.13	6.26	3.08	0.018 ±	0.0069	0.0028 ±	0.0011	0.056 ±	0.0079	0.018 ±	0.0026		
Oct.2008													
Hiranai-machi,AOMORI	1.21	0.433	3.21	0.0045 ±	0.0044	0.010 ±	0.010	0.074 ±	0.0082	0.023 ±	0.0025		
Nov.2008													
Sakai,FUKUI	1.28	0.982	3.14	0.0007 ±	0.0047	0.0007 ±	0.0048	0.10 ±	0.011	0.032 ±	0.0034		
Dec.2008													
Takamatsu,KAGAWA	3.18	7.57	3.21	0.013 ±	0.0061	0.0017 ±	0.00080	0.060 ±	0.0083	0.019 ±	0.0026		
Mar.2009													
Otake,HIROSHIMA	2.28	3.60	3.28	0.0060 ±	0.0052	0.0017 ±	0.0015	0.039 ±	0.0067	0.012 ±	0.0020		
<u>(Pterocaesio diagramma)</u>													
Nov.2008													
Uruma,OKINAWA	4.22	9.83	4.30	0.0032 ±	0.0055	0.00032 ±	0.00056	0.077 ±	0.0086	0.018 ±	0.0020		
<u>(Sardinops sp.)</u>													
Aug.2008													
Yamagata,YAMAGATA	2.85	5.99	2.50	0.0000 ±	0.0055	0.00000 ±	0.00091	0.036 ±	0.0069	0.014 ±	0.0027		
Nov.2008													
Nagano,NAGANO	2.94	4.85	2.84	0.0070 ±	0.0070	0.0014 ±	0.0014	0.11 ±	0.010	0.038 ±	0.0037		
<u>(Scomber australasicus)</u>													
Feb.2009													
Minamiboso,CHIBA	1.44	0.179	4.26	0.0014 ±	0.0054	0.008 ±	0.030	0.094 ±	0.010	0.022 ±	0.0023		
<u>(Scomber sp.)</u>													
Aug.2008													
Iyonada,EHIME	1.40	0.235	4.37	0.0090 ±	0.0071	0.038 ±	0.030	0.095 ±	0.0095	0.022 ±	0.0022		
Nov.2008													
Kyoto,KYOTO	1.35	0.194	2.92	0.0032 ±	0.0052	0.016 ±	0.027	0.088 ±	0.0091	0.030 ±	0.0031		
Jan.2009													
Sakaiminato,TOTTORI	1.18	0.616	2.74	0.0037 ±	0.0043	0.0060 ±	0.0070	0.089 ±	0.0096	0.032 ±	0.0035		
<u>(Sebastes inermis)</u>													
Feb.2009													
Yamaguchi-bay,YAMAGUCHI	4.71	13.0	3.12	0.0065 ±	0.0068	0.00050 ±	0.00053	0.070 ±	0.0094	0.023 ±	0.0030		

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90			Cs-137						
				(Bq/kg wet)		(Bq/g Ca)	(Bq/kg wet)		(Bq/g K)				
<i>(Sebastiscus marmoratus)</i>													
Jun.2008													
Hamada,SHIMANE	6.23	19.0	2.30	0.040	± 0.012	0.0021	± 0.00061	0.040	± 0.0084	0.018	± 0.0036		
<i>(Seriola quinqueradiata)</i>													
Oct.2008													
Kaga,ISHIKAWA	1.60	0.677	3.98	0.014	± 0.0072	0.021	± 0.011	0.14	± 0.011	0.036	± 0.0028		
<i>(Sillago sp.)</i>													
May 2008													
Minamichita-machi,AICHI	4.82	7.76	4.52	0.012	± 0.0066	0.0016	± 0.00085	0.067	± 0.0086	0.015	± 0.0019		
<i>(Sparidae)</i>													
Apr.2008													
Kihoku-machi,MIE	1.55	0.259	4.54	0.011	± 0.0063	0.041	± 0.024	0.12	± 0.010	0.026	± 0.0023		
Jul.2008													
Fukuoka,FUKUOKA	1.34	0.493	3.62	0.0082	± 0.0065	0.017	± 0.013	0.078	± 0.0089	0.022	± 0.0025		
Dec.2008													
Osaka,OSAKA	1.36	0.214	4.69	0.0019	± 0.0049	0.009	± 0.023	0.096	± 0.0096	0.020	± 0.0020		
<i>(Spratelloides gracilis)</i>													
Nov.2008													
Akune,KAGOSHIMA	2.98	6.02	2.83	0.010	± 0.0053	0.0017	± 0.00088	0.075	± 0.0090	0.026	± 0.0032		
<i>(Trachurus japonicus)</i>													
Oct.2008													
Odawara,KANAGAWA	1.46	0.122	4.19	0.015	± 0.0069	0.12	± 0.057	0.10	± 0.010	0.024	± 0.0023		
<i>(Trachurus sp.)</i>													
Apr.2008													
Nachikatsuura-machi,WAKAYAMA	1.82	1.01	3.68	0.0089	± 0.0059	0.0089	± 0.0059	0.15	± 0.012	0.042	± 0.0032		
Nov.2008													
Shizuoka,SHIZUOKA	3.61	8.52	3.03	0.0071	± 0.0053	0.00083	± 0.00062	0.077	± 0.0089	0.026	± 0.0029		

(14) Strontium-90 and Cesium-137 in Freshwater fish

(from Apr.2008 to Mar.2009)

Table (14) : Strontium-90 and Cesium-137 in Freshwater fish

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90					Cs-137					
				(Bq/kg wet)		(Bq/g Ca)			(Bq/kg wet)		(Bq/g K)			
<i>(Carassius sp.)</i>														

Jul.2008														
Ishikari,HOKKAIDO	4.55	12.7	2.74	0.40	± 0.022	0.032	± 0.0017	0.034	± 0.0066	0.013	± 0.0024			
Nov.2008														
Niigata,NIIGATA	1.18	0.616	3.19	0.029	± 0.0071	0.047	± 0.012	0.095	± 0.0099	0.030	± 0.0031			
Dec.2008														
Wakasa-machi,FUKUI	1.29	1.15	3.20	0.039	± 0.0083	0.034	± 0.0072	0.077	± 0.0086	0.024	± 0.0027			
Uji,KYOTO	4.23	12.0	2.48	0.37	± 0.022	0.031	± 0.0019	0.0000	± 0.0062	0.0000	± 0.0025			
<i>(Cyprinus carpio)</i>														

Oct.2008														
Syobara,HIROSHIMA	1.01	0.405	2.89	0.023	± 0.0074	0.058	± 0.018	0.073	± 0.0088	0.025	± 0.0030			
<i>(Hypomesus nipponensis)</i>														

Nov.2008														
Suwa-lake,NAGANO	2.09	5.08	2.40	0.057	± 0.0098	0.011	± 0.0019	0.063	± 0.0082	0.026	± 0.0034			
<i>(Ictalurus punctatus)</i>														

Jul.2008														
Kasumigaura-lake,IBARAKI	1.17	0.0846	3.51	0.0022	± 0.0051	0.025	± 0.061	0.45	± 0.019	0.13	± 0.005			
<i>(Salmo gairdneri)</i>														

Oct.2008														
Kumagaya,SAITAMA	1.14	0.133	3.52	0.0093	± 0.0057	0.070	± 0.043	0.11	± 0.010	0.030	± 0.0029			
<i>(Salvelinus leucomaenis)</i>														

Sep.2008														
Fukushima,FUKUSHIMA	1.32	0.569	3.52	0.0052	± 0.0054	0.0091	± 0.0094	0.073	± 0.0083	0.021	± 0.0023			

(15) Strontium-90 and Cesium-137 in Shellfish

(from Apr.2008 to Mar.2009)

Table (15) : Strontium-90 and Cesium-137 in Shellfish

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90				Cs-137				
				(Bq/kg wet)		(Bq/g Ca)		(Bq/kg wet)		(Bq/g K)		
<u>(Crassostrea gigas)</u>												
Feb.2009												
Hatsukaichi,HIROSHIMA	1.43	0.578	2.47	0.0079 ±	0.0055	0.014 ±	0.0096	0.010 ±	0.0047	0.0041 ±	0.0019	
<u>(Mytilus edulis)</u>												
May 2008												
Fukaura-machi,AOMORI	2.69	0.551	0.990	0.0082 ±	0.0058	0.015 ±	0.011	0.0020 ±	0.0042	0.0020 ±	0.0042	
<u>(Patinopecten yessoensis)</u>												
Aug.2008												
Sarufutsu-mura,HOKKAIDO	1.59	0.197	2.69	0.0000 ±	0.0058	0.000 ±	0.030	0.025 ±	0.0061	0.0092 ±	0.0023	
Oct.2008												
Hiranai-machi,AOMORI	2.24	0.340	2.64	0.0021 ±	0.0044	0.006 ±	0.013	0.016 ±	0.0048	0.0059 ±	0.0018	
Jan.2009												
Yamada-machi,IWATE	1.74	0.282	2.40	0.0068 ±	0.0051	0.024 ±	0.018	0.017 ±	0.0053	0.0069 ±	0.0022	
<u>(Tapes philippinarum)</u>												
Apr.2008												
Ise,MIE	2.19	0.646	2.63	0.0000 ±	0.0052	0.0000 ±	0.0081	0.012 ±	0.0048	0.0044 ±	0.0018	
May 2008												
Minamichita-machi,AICHI	2.16	0.905	4.00	0.0063 ±	0.0053	0.0069 ±	0.0058	0.024 ±	0.0049	0.0061 ±	0.0012	
Isahaya,NAGASAKI	2.71	0.569	1.85	0.0000 ±	0.0046	0.0000 ±	0.0080	0.015 ±	0.0051	0.0081 ±	0.0027	
<u>(Turbo(Batillus) cornutus)</u>												
Apr.2008												
Sado,NIIGATA	2.68	0.909	2.68	0.023 ±	0.012	0.025 ±	0.013	0.013 ±	0.0079	0.0048 ±	0.0029	
Jul.2008												
Sakata,YAMAGATA	3.07	2.52	2.75	0.0065 ±	0.0054	0.0026 ±	0.0022	0.012 ±	0.0042	0.0043 ±	0.0015	
Kaga,ISHIKAWA	3.77	1.19	2.69	0.0073 ±	0.0054	0.0061 ±	0.0045	0.037 ±	0.0055	0.014 ±	0.0020	

(16) Strontium-90 and Cesium-137 in Seaweeds

(from Apr.2008 to Mar.2009)

Table (16) : Strontium-90 and Cesium-137 in Seaweeds

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90					Cs-137				
				(Bq/kg wet)		(Bq/g Ca)			(Bq/kg wet)		(Bq/g K)		
<u>(Laminaria japonica)</u>													
Yoichi-bay,HOKKAIDO	4.35	1.70	10.7	0.021	± 0.0083	0.012	± 0.0049	0.051	± 0.0077	0.0048	± 0.00072		
Aug.2008													
Hirono-machi,IWATE	4.13	0.938	12.5	0.021	± 0.0083	0.023	± 0.0089	0.028	± 0.0062	0.0022	± 0.00050		
<u>(Psuedocardium sachalinense)</u>													
Sep.2008													
Tomakomai,HOKKAIDO	1.36	0.124	3.26	0.0087	± 0.0070	0.070	± 0.056	0.024	± 0.0060	0.0075	± 0.0018		
<u>(Sargassum horneri)</u>													
May 2008													
Happo-machi,AKITA	3.31	1.58	8.54	0.050	± 0.011	0.032	± 0.0067	0.019	± 0.0053	0.0022	± 0.00062		
<u>(Undaria pinnatifida)</u>													
Apr.2008													
Imabetsu-machi,AOMORI	2.54	0.762	4.62	0.025	± 0.0078	0.033	± 0.010	0.012	± 0.0050	0.0026	± 0.0011		
Sado,NIIGATA	3.00	0.810	7.98	0.021	± 0.0084	0.026	± 0.010	0.015	± 0.0050	0.0019	± 0.00062		
Kaga,ISHIKAWA	3.16	0.781	7.08	0.019	± 0.0072	0.024	± 0.0093	0.019	± 0.0053	0.0027	± 0.00074		
May 2008													
Fukaura-machi,AOMORI	2.48	0.816	5.78	0.0083	± 0.0059	0.010	± 0.0073	0.017	± 0.0054	0.0029	± 0.00093		
Jul.2008													
Sakata,YAMAGATA	2.95	1.39	7.49	0.032	± 0.0082	0.023	± 0.0059	0.023	± 0.0056	0.0031	± 0.00075		
Feb.2009													
Minamichita-machi,AICHI	3.44	0.636	10.5	0.023	± 0.0065	0.037	± 0.010	0.034	± 0.0060	0.0032	± 0.00057		
Toba,MIE	2.83	0.708	7.41	0.029	± 0.0073	0.041	± 0.010	0.011	± 0.0045	0.0015	± 0.00061		
Hiroshima,HIROSHIMA	2.05	0.525	7.01	0.029	± 0.0078	0.055	± 0.015	0.0035	± 0.0040	0.00050	± 0.00057		
Shimabara,NAGASAKI	2.67	0.635	8.04	0.015	± 0.0068	0.024	± 0.011	0.023	± 0.0075	0.0028	± 0.00093		