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Radioactivity Survey Data in Japan

= 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. 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 distilled water.

Strontium and cesium carrier solution 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 five minutes.

Strontium and cesium carrier solution was added to the sample. The sample solution was evaporated to dryness.

(4) Soil

Soil samples were collected from the locations in spacious, flat and undisturbed area. Soil cores were taken from two layers of different depths, 5 cm (surface soil) and 5 – 20 cm. The samples were dried at 105 – 110 °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 pebbles, shells and other foreign materials were removed. The sample was dried at 105 °C in a drying oven.

(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 an electric furnace.

(8) Rice

Polished rice was collected or purchased at a rice-producing district or in consuming area.

(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 stainless or porcelain dish 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 reduced to ashes in a stainless or porcelain dishes at 450 °C 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)	Semiannually	100 L
2. Service water (tap water)	Semiannually	100 L
3. Freshwater	Yearly (fishing season)	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 (harvesting season)	5 kg (polished rice)
2. Consuming districts	Yearly (harvesting season)	5 kg (polished rice)
(9) Milk		
1. Producing districts	Quarterly (February, May, August and November)	3 L
2. Consuming districts	Semiannually (February and August)	3 L
3. Powdered milk	Semiannually (January and June)	2~3 kg
(10) Vegetables		
1. Producing districts	Yearly (harvesting season)	4 kg
2. Consuming districts	Yearly (harvesting season)	4 kg
(11) Tea	Yearly (the first harvesting season)	500 g (manufactured tea)
(12) Fish, shellfish and seaweeds		
1. Sea fish	Yearly (fishing season)	4 kg
2. Freshwater fish	Yearly (fishing season)	4 kg
3. Shellfish	Yearly (fishing season)	4~5 kg
4. Seaweeds	Yearly (fishing season)	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, strontium and cesium carrier solution 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) Rice

The ash sample was ground and passed through a 0.35 mm sieve. After sieving, strontium and cesium carrier solution 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.

(4) 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 (3).

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 a 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 on a planchet with paste.

(2) Cesium-137

After precipitating strontium carbonate, the supernatant was acidified with hydrochloric acid. Ammonium phosphomolybdate 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 a 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 mylar and mounted on a planchet.

4. 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.

5. 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 concentrations were shown in 2 significant figures. The errors were derived only from the counting errors.



Figure 1. Sampling Locations in Japan

6. Results

(1) Strontium-90 and Cesium-137 in Rain and dry fallout (from Apr. 2006 to Mar. 2007)

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. 2006								
Sapporo, HOKKAIDO	31	76.0	0.025	±	0.015	0.042	±	0.012
Aomori, AOMORI	31	51.6	0.000	±	0.014	0.088	±	0.014
Morioka, IWATE	28	100.0	0.026	±	0.016	0.083	±	0.013
Onagawa-machi, MIYAGI	25	83.0	0.033	±	0.018	0.057	±	0.013
Akita, AKITA	28	100.9	0.073	±	0.017	0.32	±	0.021
Yamagata, YAMAGATA	28	59.6	0.006	±	0.012	0.085	±	0.014
Okuma-machi, FUKUSHIMA	28	92.0	0.005	±	0.016	0.067	±	0.012
Mito, IBARAKI	28	114.0	0.015	±	0.013	0.12	±	0.015
Kawachi-machi, TOCHIGI	28	84.3	0.028	±	0.014	0.16	±	0.016
Maebashi, GUNMA	28	55.0	0.055	±	0.015	0.088	±	0.013
Saitama, SAITAMA	28	122.3	0.033	±	0.011	0.15	±	0.012
Ichihara, CHIBA	28	113.1	0.035	±	0.016	0.078	±	0.013
Chiba, CHIBA	29	94.5	0.000	±	0.014	0.070	±	0.011
Shinjuku, TOKYO	28	117.2	0.085	±	0.092	0.070	±	0.012
Chigasaki, KANAGAWA	31	191.8	0.025	±	0.015	0.053	±	0.013
Niigata, NIIGATA	28	65.9	0.022	±	0.015	0.12	±	0.016
Imizu, TOYAMA	28	167.5	0.056	±	0.019	0.21	±	0.018
Kanazawa, ISHIKAWA	28	196.5	0.000	±	0.019	0.17	±	0.017
Fukui, FUKUI	28	149.4	0.14	±	0.067	0.20	±	0.055
Kofu, YAMANASHI	27	60.5	0.011	±	0.016	0.018	±	0.0097
Nagano, NAGANO	28	54.0	0.038	±	0.018	0.14	±	0.016
Kakamigahara, GIFU	28	176.1	0.063	±	0.022	0.14	±	0.017
Shizuoka, SHIZUOKA	29	208.0	0.021	±	0.015	0.11	±	0.014
Nagoya, AICHI	28	86.4	0.026	±	0.014	0.072	±	0.013
Yokkaichi, MIE	28	257.5	0.049	±	0.016	0.34	±	0.022
Otsu, SHIGA	28	125.6	0.019	±	0.014	0.042	±	0.012
Kyoto, KYOTO	28	117.0	0.050	±	0.018	0.074	±	0.013
Osaka, OSAKA	31	139.7	0.027	±	0.017	0.055	±	0.013
Kobe, HYOGO	28	115.1	0.032	±	0.016	0.069	±	0.014

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)		
Nara, NARA	28	156.6	0.041	±	0.015	0.066	±	0.012
Wakayama, WAKAYAMA	30	162.0	0.029	±	0.015	0.10	±	0.014
Yurihama-machi, TOTTORI	28	62.0	0.000	±	0.017	0.11	±	0.013
Matsue, SHIMANE	33	71.6	0.049	±	0.011	0.19	±	0.013
Okayama, OKAYAMA	28	90.4	0.004	±	0.017	0.047	±	0.012
Hiroshima, HIROSHIMA	31	254.4	0.030	±	0.048	0.13	±	0.015
Yamaguchi, YAMAGUCHI	30	232.5	0.019	±	0.014	0.073	±	0.014
Ishii-machi, TOKUSHIMA	28	193.8	0.016	±	0.016	0.083	±	0.013
Takamatsu, KAGAWA	28	78.0	0.007	±	0.019	0.063	±	0.012
Matsuyama, EHIME	28	148.5	0.010	±	0.014	0.071	±	0.012
Kochi, KOCHI	25	367.1	0.038	±	0.015	0.22	±	0.019
Dazaifu, FUKUOKA	28	209.1	0.021	±	0.014	0.051	±	0.011
Saga, SAGA	28	312.5	0.048	±	0.016	0.066	±	0.012
Nagasaki, NAGASAKI	28	237.0	0.023	±	0.015	0.057	±	0.012
Uto, KUMAMOTO	28	162.9	0.000	±	0.010	0.053	±	0.011
Oita, OITA	28	157.5	0.019	±	0.014	0.062	±	0.012
Miyazaki, MIYAZAKI	28	276.7	0.025	±	0.017	0.099	±	0.013
Kagoshima, KAGOSHIMA	28	196.0	0.015	±	0.013	0.053	±	0.011
Uruma, OKINAWA	28	158.5	0.008	±	0.012	0.0000	±	0.0095
May 2006								
Sapporo, HOKKAIDO	31	42.0	0.006	±	0.014	0.022	±	0.010
Aomori, AOMORI	31	57.4	0.007	±	0.015	0.029	±	0.012
Morioka, IWATE	31	115.7	0.002	±	0.013	0.011	±	0.0083
Onagawa-machi, MIYAGI	34	112.0	0.001	±	0.015	0.011	±	0.0093
Akita, AKITA	31	117.5	0.028	±	0.014	0.057	±	0.011
Yamagata, YAMAGATA	31	41.0	0.020	±	0.014	0.031	±	0.011
Okuma-machi, FUKUSHIMA	31	117.0	0.000	±	0.014	0.026	±	0.010
Mito, IBARAKI	31	113.5	0.045	±	0.015	0.048	±	0.011
Kawachi-machi, TOCHIGI	31	112.5	0.039	±	0.015	0.059	±	0.012
Maebashi, GUNMA	31	74.0	0.031	±	0.013	0.049	±	0.011
Saitama, SAITAMA	31	145.7	0.0000	±	0.0081	0.037	±	0.0079
Ichihara, CHIBA	31	96.8	0.029	±	0.015	0.053	±	0.012
Chiba, CHIBA	30	105.5	0.025	±	0.015	0.031	±	0.011
Shinjuku, TOKYO	31	136.5	0.002	±	0.013	0.0062	±	0.0087

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)			Cs-137 (MBq/km ²)		
Chigasaki, KANAGAWA	31	138.5	0.018	±	0.014	0.021	±	0.010	
Niigata, NIIGATA	31	97.5	0.025	±	0.014	0.084	±	0.013	
Imizu, TOYAMA	31	167.9	0.037	±	0.018	0.078	±	0.014	
Kanazawa, ISHIKAWA	34	192.0	0.020	±	0.017	0.095	±	0.013	
Fukui, FUKUI	31	169.3	0.17	±	0.067	0.000	±	0.039	
Kofu, YAMANASHI	31	50.0	0.020	±	0.015	0.018	±	0.0092	
Nagano, NAGANO	31	79.5	0.000	±	0.013	0.011	±	0.0091	
Kakamigahara, GIFU	33	308.7	0.014	±	0.013	0.030	±	0.0093	
Shizuoka, SHIZUOKA	31	264.0	0.000	±	0.013	0.010	±	0.0085	
Nagoya, AICHI	31	191.5	0.030	±	0.017	0.013	±	0.010	
Yokkaichi, MIE	31	248.0	0.029	±	0.014	0.020	±	0.0097	
Otsu, SHIGA	31	159.1	0.020	±	0.015	0.0035	±	0.0096	
Kyoto, KYOTO	35	153.0	0.011	±	0.013	0.020	±	0.011	
Osaka, OSAKA	30	150.6	0.013	±	0.013	0.018	±	0.011	
Kobe, HYOGO	33	237.1	0.020	±	0.013	0.0017	±	0.0092	
Nara, NARA	31	176.3	0.015	±	0.014	0.016	±	0.0085	
Wakayama, WAKAYAMA	35	122.0	0.060	±	0.016	0.021	±	0.0087	
Yurihama-machi, TOTTORI	31	131.0	0.003	±	0.012	0.025	±	0.010	
Matsue, SHIMANE	31	165.9	0.039	±	0.011	0.054	±	0.0081	
Okayama, OKAYAMA	31	87.8	0.000	±	0.014	0.0054	±	0.0088	
Hiroshima, HIROSHIMA	31	327.9	0.000	±	0.013	0.014	±	0.0090	
Yamaguchi, YAMAGUCHI	31	302.0	0.038	±	0.015	0.016	±	0.0091	
Ishii-machi, TOKUSHIMA	31	103.1	0.012	±	0.013	0.0077	±	0.0096	
Takamatsu, KAGAWA	31	100.5	0.021	±	0.012	0.019	±	0.0093	
Matsuyama, EHIME	31	160.5	0.014	±	0.014	0.021	±	0.0087	
Kochi, KOCHI	34	679.3	0.048	±	0.016	0.041	±	0.012	
Dazaifu, FUKUOKA	31	217.6	0.003	±	0.012	0.027	±	0.010	
Nagasaki, NAGASAKI	31	389.5	0.013	±	0.015	0.015	±	0.010	
Uto, KUMAMOTO	31	248.0	0.029	±	0.013	0.014	±	0.0087	
Oita, OITA	31	206.5	0.000	±	0.011	0.0000	±	0.0099	
Miyazaki, MIYAZAKI	31	321.5	0.023	±	0.015	0.020	±	0.011	
Kagoshima, KAGOSHIMA	33	196.5	0.003	±	0.013	0.0062	±	0.0083	
Uruma, OKINAWA	31	361.0	0.011	±	0.013	0.0000	±	0.0091	

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)		
Jun. 2006								
Sapporo, HOKKAIDO	29	75.0	0.006	±	0.014	0.018	±	0.010
Aomori, AOMORI	29	54.7	0.007	±	0.016	0.0023	±	0.0099
Morioka, IWATE	32	146.3	0.016	±	0.016	0.015	±	0.0087
Onagawa-machi, MIYAGI	32	108.0	0.010	±	0.015	0.0059	±	0.0086
Akita, AKITA	32	138.1	0.035	±	0.014	0.029	±	0.0096
Yamagata, YAMAGATA	32	86.0	0.000	±	0.014	0.0000	±	0.0072
Okuma-machi, FUKUSHIMA	32	255.0	0.000	±	0.014	0.016	±	0.0096
Mito, IBARAKI	32	183.5	0.044	±	0.016	0.037	±	0.010
Kawachi-machi, TOCHIGI	32	228.6	0.022	±	0.014	0.0000	±	0.0086
Maebashi, GUNMA	32	140.0	0.023	±	0.014	0.021	±	0.0093
Saitama, SAITAMA	32	150.3	0.012	±	0.0086	0.020	±	0.0068
Ichihara, CHIBA	32	108.4	0.014	±	0.020	0.0000	±	0.0091
Chiba, CHIBA	32	152.1	0.022	±	0.015	0.0012	±	0.0089
Shinjuku, TOKYO	33	155.3	0.000	±	0.017	0.0000	±	0.0082
Chigasaki, KANAGAWA	29	168.9	0.019	±	0.015	0.0000	±	0.0082
Niigata, NIIGATA	32	129.8	0.014	±	0.013	0.030	±	0.012
Imizu, TOYAMA	32	127.6	0.000	±	0.016	0.0000	±	0.0087
Kanazawa, ISHIKAWA	29	46.0	0.000	±	0.022	0.016	±	0.010
Kofu, YAMANASHI	32	97.0	0.000	±	0.014	0.016	±	0.0096
Nagano, NAGANO	32	80.0	0.000	±	0.016	0.0091	±	0.0091
Kakamigahara, GIFU	30	206.6	0.000	±	0.016	0.022	±	0.012
Shizuoka, SHIZUOKA	31	300.0	0.000	±	0.011	0.011	±	0.0084
Nagoya, AICHI	32	229.8	0.010	±	0.014	0.0000	±	0.0087
Yokkaichi, MIE	32	429.0	0.022	±	0.013	0.0096	±	0.0085
Otsu, SHIGA	32	232.9	0.011	±	0.013	0.0011	±	0.0078
Kyoto, KYOTO	28	187.5	0.005	±	0.014	0.0000	±	0.0096
Osaka, OSAKA	28	176.6	0.000	±	0.012	0.0025	±	0.0086
Kobe, HYOGO	30	180.2	0.018	±	0.013	0.0060	±	0.0085
Nara, NARA	32	305.5	0.009	±	0.013	0.0048	±	0.0077
Wakayama, WAKAYAMA	29	190.0	0.062	±	0.017	0.0087	±	0.0080
Yurihama-machi, TOTTORI	32	97.0	0.018	±	0.013	0.020	±	0.0092
Matsue, SHIMANE	32	154.2	0.0053	±	0.0074	0.011	±	0.0064
Okayama, OKAYAMA	32	244.6	0.000	±	0.016	0.034	±	0.0096
Hiroshima, HIROSHIMA	32	397.6	0.019	±	0.014	0.0000	±	0.0083

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)			Cs-137 (MBq/km ²)		
Yamaguchi, YAMAGUCHI	30	593.0	0.000	±	0.014	0.0000	±	0.0076	
Ishii-machi, TOKUSHIMA	32	132.0	0.015	±	0.015	0.018	±	0.0098	
Takamatsu, KAGAWA	32	184.0	0.053	±	0.016	0.0000	±	0.0075	
Matsuyama, EHIME	32	287.5	0.020	±	0.015	0.010	±	0.0081	
Kochi, KOCHI	29	358.5	0.030	±	0.016	0.0092	±	0.0095	
Dazaifu, FUKUOKA	32	382.8	0.022	±	0.015	0.0000	±	0.0080	
Saga, SAGA	32	289.2	0.010	±	0.015	0.011	±	0.0096	
Nagasaki, NAGASAKI	32	391.0	0.013	±	0.015	0.0000	±	0.0084	
Uto, KUMAMOTO	32	631.2	0.037	±	0.015	0.0000	±	0.0073	
Oita, OITA	32	328.0	0.033	±	0.015	0.0072	±	0.0083	
Miyazaki, MIYAZAKI	32	414.1	0.034	±	0.017	0.011	±	0.0090	
Kagoshima, KAGOSHIMA	30	395.0	0.000	±	0.012	0.012	±	0.0089	
Uruma, OKINAWA	32	315.0	0.000	±	0.014	0.0000	±	0.0084	
Jul. 2006									
Sapporo, HOKKAIDO	32	120.5	0.008	±	0.013	0.0077	±	0.0088	
Aomori, AOMORI	32	97.1	0.000	±	0.015	0.0000	±	0.0084	
Morioka, IWATE	29	85.5	0.000	±	0.014	0.0012	±	0.0083	
Onagawa-machi, MIYAGI	29	219.0	0.000	±	0.014	0.0000	±	0.0081	
Akita, AKITA	29	187.4	0.047	±	0.017	0.012	±	0.0087	
Yamagata, YAMAGATA	29	242.5	0.026	±	0.017	0.0048	±	0.0085	
Mito, IBARAKI	29	358.0	0.000	±	0.013	0.0078	±	0.0086	
Kawachi-machi, TOCHIGI	29	293.5	0.000	±	0.011	0.0046	±	0.0077	
Maebashi, GUNMA	29	368.0	0.015	±	0.014	0.0000	±	0.0076	
Saitama, SAITAMA	29	200.2	0.026	±	0.0090	0.0012	±	0.0056	
Ichihara, CHIBA	29	128.7	0.000	±	0.017	0.000	±	0.010	
Chiba, CHIBA	29	170.6	0.000	±	0.013	0.0012	±	0.0084	
Shinjuku, TOKYO	28	184.68	0.000	±	0.014	0.0000	±	0.0082	
Chigasaki, KANAGAWA	32	216.7	0.033	±	0.017	0.0000	±	0.0083	
Niigata, NIIGATA	29	375.5	0.000	±	0.013	0.021	±	0.0098	
Imizu, TOYAMA	29	478.9	0.018	±	0.014	0.0000	±	0.0083	
Kanazawa, ISHIKAWA	32	565.5	0.018	±	0.015	0.012	±	0.0086	
Fukui, FUKUI	31	613.5	0.051	±	0.070	0.000	±	0.043	
Kofu, YAMANASHI	29	189.0	0.028	±	0.017	0.0076	±	0.0078	
Nagano, NAGANO	29	275.0	0.002	±	0.012	0.0012	±	0.0073	

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)			Cs-137 (MBq/km ²)		
Kakamigahara, GIFU	31	456.8	0.000	±	0.014	0.013	±	0.0082	
Shizuoka, SHIZUOKA	29	225.0	0.009	±	0.013	0.023	±	0.0089	
Nagoya, AICHI	29	274.3	0.021	±	0.014	0.0000	±	0.0086	
Yokkaichi, MIE	29	293.0	0.038	±	0.015	0.0000	±	0.0078	
Otsu, SHIGA	29	404.3	0.042	±	0.016	0.0000	±	0.0078	
Kyoto, KYOTO	31	392.0	0.015	±	0.015	0.0078	±	0.0094	
Osaka, OSAKA	34	321.6	0.019	±	0.013	0.0000	±	0.0083	
Kobe, HYOGO	31	272.0	0.000	±	0.010	0.0000	±	0.0067	
Nara, NARA	29	413.3	0.026	±	0.015	0.0000	±	0.0065	
Wakayama, WAKAYAMA	28	216.5	0.067	±	0.017	0.015	±	0.0085	
Yurihama-machi, TOTTORI	29	409.5	0.019	±	0.015	0.0018	±	0.0073	
Okayama, OKAYAMA	29	221.8	0.022	±	0.016	0.0000	±	0.0068	
Hiroshima, HIROSHIMA	29	226.1	0.001	±	0.012	0.0000	±	0.0077	
Yamaguchi, YAMAGUCHI	31	368.5	0.019	±	0.013	0.0053	±	0.0086	
Ishii-machi, TOKUSHIMA	29	141.6	0.010	±	0.014	0.0000	±	0.0079	
Takamatsu, KAGAWA	29	201.5	0.000	±	0.014	0.0000	±	0.0074	
Matsuyama, EHIME	29	271.5	0.020	±	0.015	0.0000	±	0.0068	
Kochi, KOCHI	32	430.9	0.061	±	0.017	0.0000	±	0.0077	
Dazaifu, FUKUOKA	29	389.8	0.012	±	0.012	0.0006	±	0.0089	
Saga, SAGA	29	316.6	0.039	±	0.018	0.0000	±	0.0089	
Nagasaki, NAGASAKI	29	459.5	0.029	±	0.015	0.0000	±	0.0081	
Uto, KUMAMOTO	29	497.9	0.000	±	0.010	0.0018	±	0.0086	
Oita, OITA	29	444.0	0.001	±	0.015	0.0093	±	0.0073	
Miyazaki, MIYAZAKI	29	504.4	0.000	±	0.013	0.0000	±	0.0079	
Kagoshima, KAGOSHIMA	31	399.5	0.044	±	0.015	0.0000	±	0.0079	
Uruma, OKINAWA	29	51.0	0.000	±	0.017	0.008	±	0.010	
Aug. 2006									
Sapporo, HOKKAIDO	31	38.0	0.000	±	0.012	0.021	±	0.0088	
Aomori, AOMORI	31	82.1	0.023	±	0.014	0.0023	±	0.0076	
Morioka, IWATE	31	42.0	0.000	±	0.013	0.0000	±	0.0084	
Onagawa-machi, MIYAGI	31	38.0	0.000	±	0.012	0.0000	±	0.0070	
Akita, AKITA	31	82.1	0.043	±	0.015	0.0055	±	0.0083	
Yamagata, YAMAGATA	31	163.0	0.013	±	0.016	0.0000	±	0.0074	
Okuma-machi, FUKUSHIMA	31	65.0	0.011	±	0.017	0.0059	±	0.0087	

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)			Cs-137 (MBq/km ²)		
Mito, IBARAKI	31	52.0	0.000	±	0.013	0.0057	±	0.0096	
Kawachi-machi, TOCHIGI	31	142.9	0.008	±	0.012	0.0058	±	0.0078	
Maebashi, GUNMA	31	136.5	0.011	±	0.014	0.0049	±	0.0082	
Saitama, SAITAMA	31	136.0	0.0099	±	0.0079	0.0000	±	0.0053	
Ichihara, CHIBA	31	131.0	0.017	±	0.018	0.0000	±	0.0089	
Chiba, CHIBA	31	83.7	0.000	±	0.013	0.0000	±	0.0078	
Shinjuku, TOKYO	31	162.12	0.000	±	0.015	0.0012	±	0.0086	
Chigasaki, KANAGAWA	30	128.5	0.030	±	0.015	0.0000	±	0.0082	
Niigata, NIIGATA	31	91.5	0.011	±	0.012	0.0000	±	0.0081	
Imizu, TOYAMA	31	84.6	0.017	±	0.015	0.0000	±	0.0082	
Kanazawa, ISHIKAWA	31	49.0	0.000	±	0.013	0.0089	±	0.0091	
Fukui, FUKUI	28	46.0	0.000	±	0.071	0.000	±	0.041	
Kofu, YAMANASHI	31	96.5	0.002	±	0.015	0.0000	±	0.0068	
Nagano, NAGANO	31	14.0	0.000	±	0.012	0.0000	±	0.0069	
Kakamigahara, GIFU	31	70.3	0.016	±	0.015	0.0066	±	0.0078	
Shizuoka, SHIZUOKA	34	242.0	0.007	±	0.014	0.0035	±	0.0083	
Nagoya, AICHI	31	152.3	0.007	±	0.013	0.0000	±	0.0080	
Yokkaichi, MIE	31	157.0	0.016	±	0.014	0.0000	±	0.0074	
Otsu, SHIGA	31	86.3	0.011	±	0.021	0.0053	±	0.0097	
Kyoto, KYOTO	35	107.0	0.000	±	0.014	0.0000	±	0.0085	
Osaka, OSAKA	30	42.7	0.000	±	0.014	0.0025	±	0.0091	
Kobe, HYOGO	31	52.2	0.023	±	0.014	0.0099	±	0.0086	
Nara, NARA	31	76.6	0.004	±	0.014	0.0000	±	0.0080	
Wakayama, WAKAYAMA	31	85.5	0.25	±	0.025	0.0036	±	0.0074	
Yurihama-machi, TOTTORI	31	15.5	0.013	±	0.013	0.0000	±	0.0068	
Okayama, OKAYAMA	31	52.0	0.000	±	0.012	0.017	±	0.0083	
Hiroshima, HIROSHIMA	34	137.0	0.000	±	0.011	0.0013	±	0.0095	
Yamaguchi, YAMAGUCHI	31	203.0	0.027	±	0.013	0.0000	±	0.0078	
Ishii-machi, TOKUSHIMA	31	100.9	0.019	±	0.015	0.015	±	0.0085	
Takamatsu, KAGAWA	31	108.5	0.000	±	0.013	0.0006	±	0.0073	
Matsuyama, EHIME	31	72.5	0.019	±	0.016	0.0000	±	0.0076	
Kochi, KOCHI	31	252.1	0.052	±	0.023	0.0000	±	0.0093	
Dazaifu, FUKUOKA	31	340.4	0.031	±	0.013	0.014	±	0.0084	
Saga, SAGA	31	206.8	0.017	±	0.017	0.0000	±	0.0091	

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)		
Nagasaki, NAGASAKI	31	447.0	0.009	±	0.014	0.0017	±	0.0070
Uto, KUMAMOTO	31	330.9	0.010	±	0.013	0.0000	±	0.0068
Oita, OITA	31	269.0	0.014	±	0.017	0.0018	±	0.0094
Miyazaki, MIYAZAKI	31	233.4	0.031	±	0.015	0.017	±	0.0092
Kagoshima, KAGOSHIMA	31	124.0	0.028	±	0.015	0.0000	±	0.0069
Uruma, OKINAWA	31	194.2	0.000	±	0.012	0.0039	±	0.0088
Sep. 2006								
Sapporo, HOKKAIDO	31	54.0	0.047	±	0.020	0.0000	±	0.0084
Aomori, AOMORI	31	90.8	0.000	±	0.012	0.017	±	0.0094
Morioka, IWATE	32	97.1	0.000	±	0.013	0.0000	±	0.0079
Onagawa-machi, MIYAGI	31	206.0	0.007	±	0.016	0.0000	±	0.0072
Akita, AKITA	31	65.7	0.022	±	0.016	0.0000	±	0.0083
Yamagata, YAMAGATA	31	163.0	0.000	±	0.011	0.0000	±	0.0084
Okuma-machi, FUKUSHIMA	31	295.0	0.001	±	0.013	0.0006	±	0.0085
Mito, IBARAKI	31	196.0	0.022	±	0.015	0.0000	±	0.0084
Kawachi-machi, TOCHIGI	31	178.8	0.013	±	0.013	0.0070	±	0.0080
Maebashi, GUNMA	31	169.5	0.000	±	0.012	0.0062	±	0.0083
Saitama, SAITAMA	31	263.5	0.0090	±	0.0083	0.0046	±	0.0060
Ichihara, CHIBA	31	204.2	0.005	±	0.016	0.0000	±	0.0090
Chiba, CHIBA	31	188.6	0.000	±	0.013	0.0023	±	0.0083
Shinjuku, TOKYO	31	193.3	0.000	±	0.014	0.0071	±	0.0086
Chigasaki, KANAGAWA	29	114.7	0.005	±	0.013	0.0000	±	0.0080
Niigata, NIIGATA	31	100.5	0.030	±	0.013	0.0083	±	0.0089
Imizu, TOYAMA	31	320.0	0.013	±	0.015	0.0000	±	0.0086
Kanazawa, ISHIKAWA	31	283.5	0.027	±	0.022	0.0000	±	0.0088
Fukui, FUKUI	32	287.3	0.000	±	0.064	0.000	±	0.040
Kofu, YAMANASHI	31	142.0	0.000	±	0.014	0.0006	±	0.0072
Nagano, NAGANO	31	186.5	0.021	±	0.015	0.0095	±	0.0082
Kakamigahara, GIFU	29	257.1	0.006	±	0.011	0.0000	±	0.0070
Shizuoka, SHIZUOKA	28	169.5	0.012	±	0.013	0.0000	±	0.0075
Nagoya, AICHI	31	139.8	0.004	±	0.012	0.012	±	0.0081
Yokkaichi, MIE	31	176.0	0.017	±	0.015	0.0000	±	0.0071
Otsu, SHIGA	31	162.1	0.000	±	0.015	0.0000	±	0.0078
Kyoto, KYOTO	25	74.0	0.012	±	0.013	0.0023	±	0.0077

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)			Cs-137 (MBq/km ²)	
Osaka, OSAKA	32	101.4	0.017	±	0.017	0.0000	±	0.0078
Kobe, HYOGO	29	114.4	0.009	±	0.014	0.0088	±	0.0078
Nara, NARA	31	147.4	0.0000	±	0.0087	0.0000	±	0.0087
Wakayama, WAKAYAMA	32	137.0	0.096	±	0.018	0.011	±	0.0079
Yurihama-machi, TOTTORI	31	174.5	0.018	±	0.013	0.0055	±	0.0077
Okayama, OKAYAMA	31	132.2	0.000	±	0.013	0.0006	±	0.0082
Hiroshima, HIROSHIMA	28	234.0	0.021	±	0.015	0.0049	±	0.0085
Yamaguchi, YAMAGUCHI	30	165.0	0.020	±	0.015	0.0000	±	0.0081
Ishii-machi, TOKUSHIMA	31	107.6	0.008	±	0.013	0.0000	±	0.0085
Takamatsu, KAGAWA	31	103.5	0.027	±	0.021	0.0007	±	0.0087
Matsuyama, EHIME	31	96.0	0.008	±	0.013	0.0059	±	0.0083
Kochi, KOCHI	31	578.7	0.047	±	0.016	0.0000	±	0.0074
Dazaifu, FUKUOKA	31	196.1	0.038	±	0.013	0.0000	±	0.0070
Saga, SAGA	31	195.5	0.026	±	0.014	0.0000	±	0.0069
Nagasaki, NAGASAKI	31	100.5	0.007	±	0.014	0.016	±	0.0083
Uto, KUMAMOTO	31	97.8	0.035	±	0.020	0.0000	±	0.0075
Oita, OITA	31	160.5	0.026	±	0.017	0.0000	±	0.0075
Miyazaki, MIYAZAKI	31	101.3	0.000	±	0.011	0.0000	±	0.0076
Kagoshima, KAGOSHIMA	29	158.0	0.029	±	0.015	0.0000	±	0.0071
Uruma, OKINAWA	31	147.0	0.030	±	0.014	0.0043	±	0.0079
Oct. 2006								
Sapporo, HOKKAIDO	30	75.5	0.032	±	0.017	0.0019	±	0.0092
Aomori, AOMORI	30	110.4	0.007	±	0.016	0.018	±	0.0097
Morioka, IWATE	29	126.3	0.005	±	0.014	0.0090	±	0.0085
Onagawa-machi, MIYAGI	30	409.0	0.047	±	0.018	0.0018	±	0.0077
Akita, AKITA	30	126.9	0.027	±	0.015	0.0088	±	0.0087
Yamagata, YAMAGATA	30	259.0	0.014	±	0.015	0.0000	±	0.0082
Okuma-machi, FUKUSHIMA	30	512.5	0.004	±	0.013	0.0000	±	0.0083
Mito, IBARAKI	30	229.0	0.001	±	0.014	0.039	±	0.011
Kawachi-machi, TOCHIGI	30	262.8	0.000	±	0.011	0.0000	±	0.0080
Maebashi, GUNMA	30	204.5	0.000	±	0.015	0.011	±	0.0084
Saitama, SAITAMA	30	278.5	0.023	±	0.011	0.0045	±	0.0058
Ichihara, CHIBA	30	288.0	0.012	±	0.015	0.0000	±	0.0087
Chiba, CHIBA	30	315.5	0.011	±	0.016	0.0000	±	0.0076

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)			
Shinjuku, TOKYO	31	228.3	0.016	±	0.013	0.0000	±	0.0073
Chigasaki, KANAGAWA	32	199.9	0.000	±	0.014	0.0064	±	0.0091
Niigata, NIIGATA	30	159.5	0.020	±	0.012	0.0047	±	0.0086
Imizu, TOYAMA	30	96.0	0.013	±	0.018	0.0052	±	0.0097
Kanazawa, ISHIKAWA	30	98.5	0.044	±	0.020	0.0000	±	0.0081
Fukui, FUKUI	29	46.4	0.000	±	0.075	0.016	±	0.043
Kofu, YAMANASHI	30	95.5	0.030	±	0.014	0.0000	±	0.0069
Nagano, NAGANO	30	127.0	0.000	±	0.011	0.0012	±	0.0078
Kakamigahara, GIFU	32	172.6	0.010	±	0.017	0.0000	±	0.0087
Shizuoka, SHIZUOKA	30	78.5	0.021	±	0.013	0.0000	±	0.0071
Nagoya, AICHI	30	75.4	0.008	±	0.011	0.0000	±	0.0087
Yokkaichi, MIE	30	153.0	0.030	±	0.015	0.0000	±	0.0079
Otsu, SHIGA	30	69.5	0.008	±	0.012	0.015	±	0.0084
Kyoto, KYOTO	32	85.5	0.017	±	0.013	0.0000	±	0.0064
Osaka, OSAKA	29	64.2	0.007	±	0.010	0.0030	±	0.0084
Kobe, HYOGO	32	47.3	0.000	±	0.015	0.0090	±	0.0082
Nara, NARA	30	80.9	0.010	±	0.011	0.0000	±	0.0077
Wakayama, WAKAYAMA	29	49.0	0.068	±	0.016	0.0000	±	0.0087
Yurihama-machi, TOTTORI	30	103.0	0.000	±	0.013	0.0000	±	0.0068
Okayama, OKAYAMA	30	13.6	0.000	±	0.015	0.0000	±	0.0089
Hiroshima, HIROSHIMA	30	15.9	0.000	±	0.011	0.0000	±	0.0074
Yamaguchi, YAMAGUCHI	31	6.5	0.011	±	0.013	0.0000	±	0.0076
Ishii-machi, TOKUSHIMA	30	69.7	0.017	±	0.013	0.0037	±	0.0091
Takamatsu, KAGAWA	30	17.0	0.042	±	0.015	0.0000	±	0.0085
Matsuyama, EHIME	30	38.5	0.023	±	0.015	0.018	±	0.0094
Kochi, KOCHI	30	17.0	0.023	±	0.013	0.0000	±	0.0079
Dazaifu, FUKUOKA	30	27.7	0.031	±	0.013	0.0000	±	0.0080
Saga, SAGA	30	0.1	0.000	±	0.011	0.010	±	0.0087
Uto, KUMAMOTO	30	8.7	0.013	±	0.013	0.0097	±	0.0085
Oita, OITA	30	5.5	0.010	±	0.012	0.0000	±	0.0086
Miyazaki, MIYAZAKI	30	21.1	0.014	±	0.012	0.0000	±	0.0077
Kagoshima, KAGOSHIMA	32	15.0	0.001	±	0.012	0.0000	±	0.0070
Uruma, OKINAWA	30	34.0	0.019	±	0.025	0.0097	±	0.0098

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)		
Nov. 2006								
Sapporo, HOKKAIDO	30	148.0	0.000	±	0.015	0.0000	±	0.0081
Aomori, AOMORI	29	164.7	0.001	±	0.014	0.0044	±	0.0083
Morioka, IWATE	30	147.8	0.007	±	0.017	0.011	±	0.0087
Onagawa-machi, MIYAGI	30	159.5	0.000	±	0.014	0.0000	±	0.0079
Akita, AKITA	30	225.9	0.028	±	0.015	0.026	±	0.0096
Yamagata, YAMAGATA	30	124.0	0.018	±	0.013	0.0018	±	0.0077
Okuma-machi, FUKUSHIMA	30	69.5	0.005	±	0.011	0.0000	±	0.0083
Mito, IBARAKI	30	112.0	0.018	±	0.012	0.028	±	0.0096
Kawachi-machi, TOCHIGI	30	114.1	0.000	±	0.012	0.0000	±	0.0073
Maebashi, GUNMA	30	94.5	0.032	±	0.016	0.0006	±	0.0081
Saitama, SAITAMA	30	112.5	0.0042	±	0.0094	0.0086	±	0.0062
Ichihara, CHIBA	30	125.5	0.033	±	0.017	0.013	±	0.0091
Chiba, CHIBA	30	122.8	0.000	±	0.014	0.0000	±	0.0085
Shinjuku, TOKYO	29	136.0	0.043	±	0.015	0.0000	±	0.0071
Chigasaki, KANAGAWA	30	128.3	0.019	±	0.012	0.0000	±	0.0089
Niigata, NIIGATA	30	249.3	0.021	±	0.014	0.0000	±	0.0085
Imizu, TOYAMA	30	271.0	0.006	±	0.015	0.0012	±	0.0082
Kanazawa, ISHIKAWA	29	272.0	0.000	±	0.012	0.020	±	0.0092
Fukui, FUKUI	30	178.9	0.000	±	0.067	0.000	±	0.044
Kofu, YAMANASHI	30	82.5	0.027	±	0.014	0.0000	±	0.0071
Nagano, NAGANO	30	54.5	0.000	±	0.014	0.0024	±	0.0081
Kakamigahara, GIFU	30	93.8	0.017	±	0.020	0.0000	±	0.0071
Shizuoka, SHIZUOKA	30	79.0	0.022	±	0.014	0.0000	±	0.0086
Nagoya, AICHI	30	69.8	0.047	±	0.017	0.0053	±	0.0085
Yokkaichi, MIE	30	67.0	0.004	±	0.014	0.0000	±	0.0075
Otsu, SHIGA	30	83.5	0.027	±	0.015	0.0000	±	0.0076
Kyoto, KYOTO	30	66.0	0.011	±	0.015	0.0000	±	0.0073
Osaka, OSAKA	31	82.2	0.009	±	0.016	0.0000	±	0.0075
Kobe, HYOGO	30	64.4	0.015	±	0.013	0.0072	±	0.0081
Nara, NARA	30	125.9	0.008	±	0.012	0.010	±	0.0088
Wakayama, WAKAYAMA	30	85.0	0.097	±	0.020	0.014	±	0.0094
Yurihama-machi, TOTTORI	30	123.0	0.014	±	0.017	0.0006	±	0.0077
Matsue, SHIMANE	31	142.3	0.012	±	0.0073	0.042	±	0.0099
Okayama, OKAYAMA	30	65.6	0.002	±	0.016	0.0000	±	0.0080

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)			Cs-137 (MBq/km ²)		
Hiroshima, HIROSHIMA	30	76.7	0.019	±	0.015	0.0046	±	0.0086	
Yamaguchi, YAMAGUCHI	30	88.0	0.017	±	0.016	0.0063	±	0.0082	
Ishii-machi, TOKUSHIMA	30	110.3	0.016	±	0.013	0.0000	±	0.0074	
Takamatsu, KAGAWA	30	54.0	0.043	±	0.015	0.0023	±	0.0076	
Matsuyama, EHIME	30	118.0	0.008	±	0.012	0.0024	±	0.0085	
Dazaifu, FUKUOKA	30	113.2	0.009	±	0.011	0.0054	±	0.0082	
Saga, SAGA	30	116.5	0.000	±	0.013	0.0000	±	0.0077	
Nagasaki, NAGASAKI	30	114.5	0.026	±	0.014	0.029	±	0.0093	
Uto, KUMAMOTO	30	84.6	0.011	±	0.014	0.0000	±	0.0089	
Oita, OITA	30	138.5	0.010	±	0.011	0.0092	±	0.0082	
Miyazaki, MIYAZAKI	30	227.3	0.008	±	0.014	0.0000	±	0.0081	
Kagoshima, KAGOSHIMA	30	74.5	0.000	±	0.013	0.0074	±	0.0091	
Uruma, OKINAWA	30	64.5	0.027	±	0.016	0.0000	±	0.0079	
Dec. 2006									
Sapporo, HOKKAIDO	27	74.0	0.000	±	0.014	0.0000	±	0.0075	
Aomori, AOMORI	35	199.5	0.001	±	0.013	0.0024	±	0.0083	
Morioka, IWATE	34	83.3	0.005	±	0.013	0.0090	±	0.0090	
Onagawa-machi, MIYAGI	34	104.5	0.000	±	0.014	0.0000	±	0.0083	
Akita, AKITA	34	162.8	0.015	±	0.012	0.0065	±	0.0092	
Yamagata, YAMAGATA	34	148.5	0.0000	±	0.0096	0.0048	±	0.0085	
Okuma-machi, FUKUSHIMA	34	108.0	0.028	±	0.015	0.0066	±	0.0085	
Mito, IBARAKI	34	180.0	0.021	±	0.013	0.013	±	0.0088	
Kawachi-machi, TOCHIGI	34	157.0	0.000	±	0.014	0.0000	±	0.0073	
Maebashi, GUNMA	34	114.5	0.010	±	0.012	0.0000	±	0.0077	
Saitama, SAITAMA	34	204.1	0.016	±	0.011	0.0032	±	0.0061	
Ichihara, CHIBA	34	209.3	0.017	±	0.016	0.0000	±	0.0084	
Chiba, CHIBA	34	187.5	0.000	±	0.012	0.0000	±	0.0088	
Shinjuku, TOKYO	34	144.0	0.010	±	0.016	0.010	±	0.0087	
Chigasaki, KANAGAWA	28	140.8	0.010	±	0.012	0.0000	±	0.0081	
Niigata, NIIGATA	34	296.7	0.005	±	0.012	0.010	±	0.0097	
Imizu, TOYAMA	27	191.9	0.000	±	0.012	0.0034	±	0.0081	
Kanazawa, ISHIKAWA	28	202.0	0.001	±	0.013	0.012	±	0.0089	
Fukui, FUKUI	34	230.8	0.067	±	0.081	0.000	±	0.043	
Kofu, YAMANASHI	34	83.5	0.000	±	0.016	0.012	±	0.0085	

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)			Cs-137 (MBq/km ²)		
Nagano, NAGANO	34	81.5	0.000	±	0.017	0.0000	±	0.0077	
Kakamigahara, GIFU	27	111.3	0.031	±	0.027	0.0000	±	0.0072	
Shizuoka, SHIZUOKA	34	92.5	0.050	±	0.018	0.022	±	0.0092	
Nagoya, AICHI	34	106.8	0.020	±	0.013	0.0000	±	0.0067	
Yokkaichi, MIE	34	104.0	0.008	±	0.013	0.0000	±	0.0086	
Otsu, SHIGA	34	112.2	0.000	±	0.012	0.024	±	0.010	
Kyoto, KYOTO	35	97.0	0.000	±	0.013	0.0081	±	0.0082	
Osaka, OSAKA	34	99.0	0.022	±	0.013	0.0018	±	0.0074	
Kobe, HYOGO	28	80.7	0.020	±	0.012	0.0000	±	0.0068	
Nara, NARA	34	173.8	0.046	±	0.015	0.0094	±	0.0086	
Wakayama, WAKAYAMA	34	92.0	0.047	±	0.019	0.011	±	0.0090	
Yurihama-machi, TOTTORI	34	120.5	0.007	±	0.016	0.020	±	0.0090	
Matsue, SHIMANE	26	67.4	0.022	±	0.0088	0.013	±	0.0061	
Okayama, OKAYAMA	34	71.8	0.000	±	0.014	0.0058	±	0.0087	
Hiroshima, HIROSHIMA	34	63.7	0.037	±	0.016	0.0000	±	0.0086	
Yamaguchi, YAMAGUCHI	34	71.0	0.006	±	0.011	0.0031	±	0.0088	
Ishii-machi, TOKUSHIMA	35	54.9	0.003	±	0.014	0.011	±	0.0090	
Takamatsu, KAGAWA	34	79.5	0.022	±	0.016	0.0012	±	0.0085	
Matsuyama, EHIME	34	76.5	0.007	±	0.011	0.0000	±	0.0082	
Kochi, KOCHI	34	74.8	0.012	±	0.018	0.0045	±	0.0084	
Dazaifu, FUKUOKA	34	58.8	0.012	±	0.012	0.014	±	0.0089	
Saga, SAGA	34	38.0	0.013	±	0.013	0.0000	±	0.0075	
Nagasaki, NAGASAKI	34	67.5	0.027	±	0.015	0.0006	±	0.0077	
Uto, KUMAMOTO	34	57.8	0.002	±	0.011	0.0000	±	0.0071	
Oita, OITA	34	74.0	0.022	±	0.017	0.021	±	0.0089	
Miyazaki, MIYAZAKI	34	219.0	0.004	±	0.016	0.0086	±	0.0082	
Kagoshima, KAGOSHIMA	27	81.5	0.014	±	0.015	0.0000	±	0.0083	
Uruma, OKINAWA	34	171.5	0.003	±	0.027	0.010	±	0.011	
Jan. 2007									
Sapporo, HOKKAIDO	35	60.5	0.019	±	0.014	0.027	±	0.0099	
Aomori, AOMORI	28	117.6	0.025	±	0.015	0.0000	±	0.0089	
Morioka, IWATE	28	75.2	0.016	±	0.012	0.0054	±	0.0090	
Onagawa-machi, MIYAGI	28	61.0	0.032	±	0.013	0.0047	±	0.0084	
Akita, AKITA	28	111.5	0.000	±	0.011	0.0086	±	0.0091	

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)		
Yamagata, YAMAGATA	28	99.0	0.000	±	0.018	0.027	±	0.010
Okuma-machi, FUKUSHIMA	28	29.5	0.013	±	0.015	0.010	±	0.0089
Mito, IBARAKI	28	39.0	0.010	±	0.011	0.016	±	0.0086
Kawachi-machi, TOCHIGI	28	41.4	0.001	±	0.015	0.0006	±	0.0085
Maebashi, GUNMA	28	21.5	0.004	±	0.012	0.013	±	0.0091
Saitama, SAITAMA	28	45.7	0.010	±	0.011	0.013	±	0.0068
Ichihara, CHIBA	28	43.1	0.018	±	0.017	0.0006	±	0.0086
Chiba, CHIBA	28	41.6	0.008	±	0.013	0.0000	±	0.0073
Shinjuku, TOKYO	28	50.02	0.000	±	0.012	0.0000	±	0.0077
Chigasaki, KANAGAWA	35	59.2	0.037	±	0.018	0.028	±	0.0098
Niigata, NIIGATA	28	111.2	0.036	±	0.016	0.0036	±	0.0089
Imizu, TOYAMA	35	186.3	0.028	±	0.015	0.015	±	0.0087
Kanazawa, ISHIKAWA	32	204.5	0.000	±	0.014	0.017	±	0.0096
Fukui, FUKUI	29	181.7	0.034	±	0.064	0.088	±	0.050
Kofu, YAMANASHI	28	34.0	0.000	±	0.010	0.0043	±	0.0085
Nagano, NAGANO	28	37.0	0.011	±	0.013	0.0034	±	0.0073
Kakamigahara, GIFU	35	64.3	0.032	±	0.025	0.0099	±	0.0083
Shizuoka, SHIZUOKA	29	51.0	0.010	±	0.016	0.0018	±	0.0083
Nagoya, AICHI	28	43.5	0.019	±	0.014	0.0050	±	0.0083
Yokkaichi, MIE	28	47.0	0.000	±	0.012	0.0000	±	0.0088
Otsu, SHIGA	28	25.2	0.018	±	0.014	0.011	±	0.0084
Kyoto, KYOTO	29	16.0	0.014	±	0.014	0.011	±	0.0086
Osaka, OSAKA	28	21.9	0.000	±	0.011	0.0000	±	0.0082
Kobe, HYOGO	34	20.5	0.015	±	0.017	0.010	±	0.0092
Nara, NARA	28	38.1	0.015	±	0.011	0.0000	±	0.0083
Wakayama, WAKAYAMA	28	7.0	0.075	±	0.017	0.0012	±	0.0089
Yurihama-machi, TOTTORI	28	115.5	0.007	±	0.013	0.0049	±	0.0085
Matsue, SHIMANE	35	135.9	0.015	±	0.0094	0.032	±	0.0072
Okayama, OKAYAMA	28	22.3	0.003	±	0.013	0.0058	±	0.0091
Hiroshima, HIROSHIMA	28	17.1	0.003	±	0.014	0.0023	±	0.0085
Yamaguchi, YAMAGUCHI	28	29.5	0.008	±	0.017	0.012	±	0.0085
Ishii-machi, TOKUSHIMA	27	5.3	0.000	±	0.015	0.0063	±	0.0075
Takamatsu, KAGAWA	28	23.5	0.000	±	0.013	0.0000	±	0.0079
Matsuyama, EHIME	28	26.0	0.024	±	0.014	0.0000	±	0.0074

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)			Cs-137 (MBq/km ²)		
Kochi, KOCHI	28	13.7	0.000	±	0.015	0.0012	±	0.0086	
Dazaifu, FUKUOKA	28	39.2	0.010	±	0.012	0.0029	±	0.0079	
Saga, SAGA	28	16.9	0.000	±	0.012	0.0000	±	0.0084	
Nagasaki, NAGASAKI	28	12.0	0.015	±	0.014	0.012	±	0.0085	
Uto, KUMAMOTO	28	21.9	0.031	±	0.015	0.0023	±	0.0071	
Oita, OITA	28	6.5	0.031	±	0.015	0.0022	±	0.0083	
Miyazaki, MIYAZAKI	28	42.6	0.008	±	0.016	0.0091	±	0.0093	
Kagoshima, KAGOSHIMA	37	49.5	0.031	±	0.013	0.014	±	0.0092	
Uruma, OKINAWA	28	110.0	0.054	±	0.019	0.0000	±	0.0077	
Feb. 2007									
Sapporo, HOKKAIDO	28	68.5	0.004	±	0.011	0.021	±	0.0086	
Aomori, AOMORI	28	58.9	0.008	±	0.013	0.023	±	0.0093	
Morioka, IWATE	28	75.1	0.023	±	0.013	0.0053	±	0.0089	
Onagawa-machi, MIYAGI	28	53.0	0.043	±	0.016	0.0047	±	0.0084	
Akita, AKITA	28	57.1	0.029	±	0.013	0.013	±	0.0096	
Yamagata, YAMAGATA	28	66.5	0.014	±	0.013	0.011	±	0.0094	
Okuma-machi, FUKUSHIMA	28	22.0	0.012	±	0.013	0.025	±	0.0098	
Mito, IBARAKI	28	37.0	0.025	±	0.012	0.028	±	0.0097	
Kawachi-machi, TOCHIGI	28	30.5	0.004	±	0.016	0.017	±	0.0089	
Maebashi, GUNMA	28	9.5	0.020	±	0.012	0.098	±	0.014	
Saitama, SAITAMA	28	51.0	0.017	±	0.011	0.030	±	0.0080	
Ichihara, CHIBA	28	77.0	0.025	±	0.019	0.0000	±	0.0099	
Chiba, CHIBA	28	77.6	0.019	±	0.013	0.0024	±	0.0078	
Shinjuku, TOKYO	28	53.26	0.012	±	0.014	0.0035	±	0.0079	
Chigasaki, KANAGAWA	28	45.5	0.032	±	0.014	0.025	±	0.010	
Niigata, NIIGATA	28	50.4	0.000	±	0.011	0.0024	±	0.0076	
Imizu, TOYAMA	28	142.6	0.062	±	0.021	0.024	±	0.0094	
Kanazawa, ISHIKAWA	30	133.5	0.011	±	0.015	0.021	±	0.010	
Fukui, FUKUI	28	143.9	0.045	±	0.064	0.000	±	0.042	
Kofu, YAMANASHI	28	32.0	0.032	±	0.014	0.0064	±	0.0083	
Nagano, NAGANO	28	35.5	0.019	±	0.013	0.0000	±	0.0067	
Kakamigahara, GIFU	28	113.3	0.004	±	0.017	0.012	±	0.010	
Shizuoka, SHIZUOKA	27	87.0	0.031	±	0.015	0.011	±	0.0079	
Nagoya, AICHI	28	59.2	0.008	±	0.013	0.016	±	0.0088	

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)		
Yokkaichi, MIE	28	92.0	0.000	±	0.014	0.0099	±	0.0090
Otsu, SHIGA	28	78.1	0.036	±	0.014	0.011	±	0.0092
Kyoto, KYOTO	27	63.5	0.016	±	0.014	0.0000	±	0.0070
Osaka, OSAKA	27	42.6	0.000	±	0.015	0.010	±	0.0089
Kobe, HYOGO	28	38.0	0.001	±	0.010	0.0089	±	0.0084
Nara, NARA	28	91.3	0.000	±	0.010	0.0000	±	0.0090
Wakayama, WAKAYAMA	28	35.5	0.060	±	0.017	0.0071	±	0.0084
Yurihama-machi, TOTTORI	28	118.0	0.005	±	0.013	0.019	±	0.0093
Matsue, SHIMANE	29	55.5	0.026	±	0.010	0.0088	±	0.0062
Okayama, OKAYAMA	28	51.8	0.000	±	0.012	0.0000	±	0.0086
Hiroshima, HIROSHIMA	28	65.3	0.000	±	0.014	0.014	±	0.0087
Yamaguchi, YAMAGUCHI	28	73.0	0.018	±	0.012	0.026	±	0.0089
Ishii-machi, TOKUSHIMA	28	33.2	0.005	±	0.013	0.0000	±	0.0072
Takamatsu, KAGAWA	28	31.0	0.022	±	0.012	0.022	±	0.0088
Matsuyama, EHIME	28	60.0	0.004	±	0.013	0.0000	±	0.0083
Kochi, KOCHI	28	148.3	0.000	±	0.013	0.0070	±	0.0077
Dazaifu, FUKUOKA	28	66.5	0.000	±	0.011	0.0076	±	0.0080
Saga, SAGA	28	37.5	0.008	±	0.014	0.0006	±	0.0081
Nagasaki, NAGASAKI	28	105.5	0.020	±	0.014	0.0000	±	0.0077
Uto, KUMAMOTO	28	74.4	0.000	±	0.011	0.0065	±	0.0084
Miyazaki, MIYAZAKI	28	100.8	0.014	±	0.013	0.0000	±	0.0081
Kagoshima, KAGOSHIMA	26	86.5	0.010	±	0.011	0.0044	±	0.0088
Uruma, OKINAWA	28	55.5	0.035	±	0.018	0.011	±	0.0099
Mar. 2007								
Sapporo, HOKKAIDO	32	46.5	0.004	±	0.012	0.026	±	0.0096
Aomori, AOMORI	32	57.6	0.016	±	0.015	0.071	±	0.012
Morioka, IWATE	32	134.4	0.051	±	0.019	0.16	±	0.016
Onagawa-machi, MIYAGI	32	55.5	0.014	±	0.011	0.046	±	0.011
Akita, AKITA	32	141.0	0.000	±	0.012	0.088	±	0.013
Yamagata, YAMAGATA	32	60.0	0.014	±	0.013	0.039	±	0.011
Okuma-machi, FUKUSHIMA	32	21.5	0.003	±	0.012	0.032	±	0.011
Mito, IBARAKI	29	63.0	0.037	±	0.014	0.051	±	0.011
Kawachi-machi, TOCHIGI	32	43.8	0.000	±	0.014	0.027	±	0.0097
Maebashi, GUNMA	32	25.0	0.033	±	0.015	0.10	±	0.014

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)			
Saitama, SAITAMA	32	51.2	0.0016	±	0.0084	0.036	±	0.0079
Ichihara, CHIBA	32	53.9	0.000	±	0.014	0.015	±	0.011
Chiba, CHIBA	32	56.7	0.018	±	0.013	0.027	±	0.010
Shinjuku, TOKYO	32	75.48	0.000	±	0.012	0.020	±	0.0088
Chigasaki, KANAGAWA	29	78.8	0.012	±	0.011	0.0012	±	0.0077
Niigata, NIIGATA	32	61.4	0.030	±	0.012	0.075	±	0.013
Imizu, TOYAMA	32	152.8	0.034	±	0.015	0.044	±	0.011
Kanazawa, ISHIKAWA	30	177.5	0.048	±	0.014	0.075	±	0.012
Fukui, FUKUI	31	196.9	0.041	±	0.071	0.000	±	0.040
Kofu, YAMANASHI	32	36.0	0.000	±	0.012	0.011	±	0.0086
Nagano, NAGANO	32	70.0	0.009	±	0.017	0.010	±	0.0091
Kakamigahara, GIFU	30	133.9	0.000	±	0.013	0.011	±	0.0094
Shizuoka, SHIZUOKA	32	240.0	0.0000	±	0.0090	0.0080	±	0.0089
Nagoya, AICHI	32	86.2	0.013	±	0.015	0.0036	±	0.0079
Yokkaichi, MIE	32	30.0	0.021	±	0.017	0.010	±	0.0091
Otsu, SHIGA	32	87.3	0.006	±	0.011	0.030	±	0.0097
Kyoto, KYOTO	32	80.0	0.010	±	0.013	0.029	±	0.0098
Osaka, OSAKA	30	76.4	0.011	±	0.019	0.0000	±	0.0075
Kobe, HYOGO	30	58.8	0.026	±	0.014	0.013	±	0.0096
Nara, NARA	32	84.4	0.006	±	0.011	0.022	±	0.010
Wakayama, WAKAYAMA	32	48.5	0.10	±	0.022	0.027	±	0.0098
Yurihama-machi, TOTTORI	32	66.0	0.015	±	0.013	0.077	±	0.012
Matsue, SHIMANE	28	29.3	0.014	±	0.0084	0.020	±	0.0063
Okayama, OKAYAMA	32	49.4	0.011	±	0.011	0.013	±	0.0091
Hiroshima, HIROSHIMA	32	94.4	0.004	±	0.015	0.019	±	0.0092
Yamaguchi, YAMAGUCHI	31	97.5	0.020	±	0.012	0.0083	±	0.0099
Ishii-machi, TOKUSHIMA	32	29.3	0.015	±	0.013	0.011	±	0.0085
Takamatsu, KAGAWA	32	37.5	0.045	±	0.017	0.027	±	0.0092
Matsuyama, EHIME	32	55.5	0.018	±	0.013	0.020	±	0.0089
Kochi, KOCHI	32	130.2	0.011	±	0.012	0.013	±	0.0095
Dazaifu, FUKUOKA	32	86.8	0.000	±	0.013	0.024	±	0.0091
Saga, SAGA	32	110.3	0.0000	±	0.0094	0.0099	±	0.0089
Nagasaki, NAGASAKI	14	39.5	0.015	±	0.016	0.0024	±	0.0076
Uto, KUMAMOTO	32	138.4	0.032	±	0.017	0.027	±	0.011

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)	
Oita, OITA	32	77.5	0.004	± 0.014	0.0000	± 0.0072
Miyazaki, MIYAZAKI	32	142.7	0.000	± 0.012	0.014	± 0.0088
Kagoshima, KAGOSHIMA	30	108.5	0.023	± 0.013	0.020	± 0.0095
Uruma, OKINAWA	32	118.0	0.000	± 0.019	0.0066	± 0.0078

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

(from Apr. 2006 to Mar. 2007)

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. 2006~Jun. 2006										
Morioka, IWATE	04	-	06	10368.0	0.00092	±	0.00049	0.00060	±	0.00033
Akita, AKITA	04	-	06	10800.0	0.00030	±	0.00054	0.00044	±	0.00031
Yamagata, YAMAGATA	04	-	06	12960.0	0.0014	±	0.00049	0.00040	±	0.00029
Okuma-machi, FUKUSHIMA	04	-	06	10000.0	0.00049	±	0.00071	0.00000	±	0.00032
Kawachi-machi, TOCHIGI	04	-	06	14712.3	0.00032	±	0.00040	0.00064	±	0.00024
Maebashi, GUNMA	04	-	06	10018.8	0.00000	±	0.00071	0.00099	±	0.00034
Ichihara, CHIBA	04	-	06	10446.0	0.00083	±	0.00057	0.00039	±	0.00030
Chigasaki, KANAGAWA	04	-	06	12095.2	0.00008	±	0.00048	0.00056	±	0.00032
Niigata, NIIGATA	04	-	06	9935.7	0.0013	±	0.00062	0.00000	±	0.00028
Imizu, TOYAMA	04	-	06	18034.2	0.00083	±	0.00038	0.00034	±	0.00019
Fukui, FUKUI	04	-	06	12959.1	0.0011	±	0.00054	0.0023	±	0.00037
Kofu, YAMANASHI	04	-	06	10367.1	0.00067	±	0.00053	0.0010	±	0.00036
Nagano, NAGANO	04	-	06	11177.4	0.00095	±	0.00053	0.00022	±	0.00028
Kakamigahara, GIFU	04	-	06	11637.1	0.00044	±	0.00050	0.0026	±	0.00040
Omaezaki, SHIZUOKA	04	-	06	10260.0	0.00031	±	0.00056	0.00071	±	0.00032
Nagoya, AICHI	04	-	06	10366.2	0.00000	±	0.00044	0.0011	±	0.00036
Yokkaichi, MIE	04	-	06	14353.9	0.00075	±	0.00045	0.0023	±	0.00034
Otsu, SHIGA	04	-	06	10142.7	0.00058	±	0.00049	0.00002	±	0.00033
Kyoto, KYOTO	04	-	06	10318.8	0.00028	±	0.00049	0.00000	±	0.00027
Osaka, OSAKA	04	-	06	14662.6	0.00040	±	0.00038	0.00044	±	0.00021
Kobe, HYOGO	04	-	06	10367.4	0.00000	±	0.00051	0.00066	±	0.00037
Nara, NARA	04	-	06	10461.7	0.00010	±	0.00049	0.00061	±	0.00031
Wakayama, WAKAYAMA	04	-	06	11547.1	0.0011	±	0.00073	0.0011	±	0.00034
Yurihama-machi, TOTTORI	04	-	06	14340.0	0.00032	±	0.00032	0.00057	±	0.00025
Okayama, OKAYAMA	04	-	06	13392.0	0.00031	±	0.00040	0.00050	±	0.00024
Hiroshima, HIROSHIMA	04	-	06	10276.1	0.00000	±	0.00053	0.00084	±	0.00032
Yamaguchi, YAMAGUCHI	04	-	06	21918.4	0.0010	±	0.00035	0.0017	±	0.00024
Tokushima, TOKUSHIMA	04	-	06	10080.0	0.0015	±	0.00055	0.00000	±	0.00029
Takamatsu, KAGAWA	04	-	06	14847.9	0.00035	±	0.00037	0.0029	±	0.00035
Saga, SAGA	04	-	06	10510.8	0.0011	±	0.00064	0.0028	±	0.00043

Location	Sampling Period	Absorption (m ³)	Sr-90 (mBq/m ³)	Cs-137 (mBq/m ³)
Nagasaki, NAGASAKI	04 - 06	8640.0	0.00069 ± 0.00064	0.0016 ± 0.00046
Uto, KUMAMOTO	04 - 06	18609.1	0.00058 ± 0.00033	0.00078 ± 0.00021
Oita, OITA	04 - 06	10368.0	0.00092 ± 0.00053	0.00011 ± 0.00030
Miyazaki, MIYAZAKI	04 - 06	13111.0	0.00046 ± 0.00045	0.00009 ± 0.00026
Apr. 2006~Jul. 2006				
Mito, IBARAKI	04 - 07	11869.8	0.00027 ± 0.00048	0.00002 ± 0.00026
Jun. 2006~Jun. 2006				
Nanjo, OKINAWA	06 - 06	11085.4	0.00043 ± 0.00055	0.00004 ± 0.00026
Jul. 2006~Sep. 2006				
Morioka, IWATE	07 - 09	10368.0	0.00050 ± 0.00055	0.00000 ± 0.00026
Akita, AKITA	07 - 09	10800.0	0.00006 ± 0.00065	0.00000 ± 0.00024
Yamagata, YAMAGATA	07 - 09	12960.0	0.00081 ± 0.00050	0.00023 ± 0.00025
Okuma-machi, FUKUSHIMA	07 - 09	10000.0	0.00000 ± 0.00067	0.00000 ± 0.00032
Kawachi-machi, TOCHIGI	07 - 09	14038.1	0.00000 ± 0.00046	0.00000 ± 0.00021
Maebashi, GUNMA	07 - 09	9972.7	0.00005 ± 0.00051	0.00000 ± 0.00030
Ichihara, CHIBA	07 - 09	10337.6	0.00000 ± 0.00066	0.00000 ± 0.00030
Chigasaki, KANAGAWA	07 - 09	12095.2	0.00000 ± 0.00051	0.00007 ± 0.00026
Niigata, NIIGATA	07 - 09	9935.7	0.00000 ± 0.00072	0.00011 ± 0.00031
Imizu, TOYAMA	07 - 09	18096.8	0.00053 ± 0.00035	0.00009 ± 0.00017
Fukui, FUKUI	07 - 09	12959.1	0.00082 ± 0.00045	0.00000 ± 0.00021
Kofu, YAMANASHI	07 - 09	10367.1	0.00000 ± 0.00070	0.00000 ± 0.00026
Nagano, NAGANO	07 - 09	11177.4	0.00072 ± 0.00054	0.00000 ± 0.00025
Kakamigahara, GIFU	07 - 09	11913.5	0.00080 ± 0.00061	0.00000 ± 0.00021
Omaezaki, SHIZUOKA	07 - 09	10357.0	0.00000 ± 0.00047	0.00000 ± 0.00029
Nagoya, AICHI	07 - 09	10366.2	0.00010 ± 0.00057	0.00000 ± 0.00028
Yokkaichi, MIE	07 - 09	14287.6	0.00028 ± 0.00038	0.00000 ± 0.00021
Otsu, SHIGA	07 - 09	10081.2	0.00052 ± 0.00057	0.00000 ± 0.00029
Kyoto, KYOTO	07 - 09	10339.2	0.0014 ± 0.00067	0.00000 ± 0.00029
Osaka, OSAKA	07 - 09	15628.8	0.00046 ± 0.00034	0.00000 ± 0.00018
Kobe, HYOGO	07 - 09	10367.4	0.00065 ± 0.00055	0.00000 ± 0.00027
Nara, NARA	07 - 09	10405.2	0.0012 ± 0.00063	0.00000 ± 0.00031
Wakayama, WAKAYAMA	07 - 09	11355.3	0.00031 ± 0.00068	0.00026 ± 0.00029
Yurihama-machi, TOTTORI	07 - 09	14340.0	0.00038 ± 0.00046	0.00003 ± 0.00022
Okayama, OKAYAMA	07 - 09	13334.4	0.00000 ± 0.00053	0.00025 ± 0.00022

Location	Sampling Period		Absorption (m ³)	Sr-90 (mBq/m ³)		Cs-137 (mBq/m ³)	
Hiroshima, HIROSHIMA	07	- 09	10119.1	0.0017	±	0.00070	0.00015 ± 0.00034
Yamaguchi, YAMAGUCHI	07	- 09	21891.3	0.00000	±	0.00024	0.00000 ± 0.00014
Tokushima, TOKUSHIMA	07	- 09	10080.0	0.00023	±	0.00055	0.00025 ± 0.00032
Takamatsu, KAGAWA	07	- 09	15078.4	0.00060	±	0.00046	0.00000 ± 0.00019
Saga, SAGA	07	- 09	10343.0	0.00067	±	0.00060	0.00044 ± 0.00030
Nagasaki, NAGASAKI	07	- 09	8640.0	0.00024	±	0.00068	0.00000 ± 0.00033
Uto, KUMAMOTO	07	- 09	11739.8	0.0010	±	0.00053	0.00000 ± 0.00024
Oita, OITA	07	- 09	10368.0	0.0015	±	0.00072	0.00017 ± 0.00028
Miyazaki, MIYAZAKI	07	- 09	13143.0	0.00011	±	0.00044	0.00000 ± 0.00023
Nanjo, OKINAWA	07	- 09	10375.9	0.00000	±	0.00052	0.00000 ± 0.00029
Jul. 2006~Oct. 2006							
Mito, IBARAKI	07	- 10	12336.6	0.00000	±	0.00045	0.00000 ± 0.00025
Oct. 2006~Dec. 2006							
Morioka, IWATE	10	- 12	10368.0	0.00005	±	0.00060	0.00000 ± 0.00029
Akita, AKITA	10	- 12	10800.0	0.00081	±	0.00064	0.00000 ± 0.00029
Yamagata, YAMAGATA	10	- 12	12960.0	0.00048	±	0.00047	0.00000 ± 0.00025
Okuma-machi, FUKUSHIMA	10	- 12	10000.0	0.00000	±	0.00051	0.00024 ± 0.00030
Mito, IBARAKI	10	- 12	10405.3	0.00089	±	0.00055	0.00000 ± 0.00025
Kawachi-machi, TOCHIGI	10	- 12	14979.3	0.00000	±	0.00039	0.00000 ± 0.00021
Maebashi, GUNMA	10	- 12	10274.6	0.00000	±	0.00054	0.00000 ± 0.00030
Ichihara, CHIBA	10	- 12	10368.0	0.00000	±	0.00060	0.00061 ± 0.00035
Chigasaki, KANAGAWA	10	- 12	12095.2	0.00000	±	0.00048	0.00000 ± 0.00028
Niigata, NIIGATA	10	- 12	9935.8	0.00078	±	0.00063	0.00000 ± 0.00031
Imizu, TOYAMA	10	- 12	18047.2	0.00051	±	0.00041	0.00043 ± 0.00021
Fukui, FUKUI	10	- 12	12959.1	0.00000	±	0.00039	0.00018 ± 0.00025
Kofu, YAMANASHI	10	- 12	10367.1	0.00059	±	0.00058	0.00000 ± 0.00029
Nagano, NAGANO	10	- 12	11177.4	0.00000	±	0.00051	0.00004 ± 0.00026
Kakamigahara, GIFU	10	- 12	12068.7	0.00015	±	0.00055	0.00000 ± 0.00027
Omaezaki, SHIZUOKA	10	- 12	10026.0	0.00000	±	0.00053	0.00000 ± 0.00032
Nagoya, AICHI	10	- 12	10366.6	0.00055	±	0.00057	0.00000 ± 0.00028
Yokkaichi, MIE	10	- 12	14263.7	0.00000	±	0.00041	0.00000 ± 0.00024
Otsu, SHIGA	10	- 12	10232.0	0.00039	±	0.00054	0.00000 ± 0.00031
Kyoto, KYOTO	10	- 12	10149.8	0.00046	±	0.00045	0.00000 ± 0.00029
Osaka, OSAKA	10	- 12	14986.0	0.00008	±	0.00046	0.00000 ± 0.00020

Location	Sampling Period		Absorption (m ³)	Sr-90 (mBq/m ³)		Cs-137 (mBq/m ³)				
Kobe, HYOGO	10	- 12	10367.4	0.00055	±	0.00051	0.00000 ± 0.00033			
Nara, NARA	10	- 12	10557.3	0.00000	±	0.00057	0.00028 ± 0.00032			
Wakayama, WAKAYAMA	10	- 12	11447.7	0.00000	±	0.00045	0.00002 ± 0.00027			
Yurihama-machi, TOTTORI	10	- 12	14340.0	0.00000	±	0.00040	0.00005 ± 0.00023			
Okayama, OKAYAMA	10	- 12	13860.0	0.00015	±	0.00053	0.00005 ± 0.00022			
Hiroshima, HIROSHIMA	10	- 12	10400.3	0.00061	±	0.00055	0.00050 ± 0.00030			
Yamaguchi, YAMAGUCHI	10	- 12	21893.0	0.00008	±	0.00026	0.00000 ± 0.00014			
Tokushima, TOKUSHIMA	10	- 12	10080.0	0.00032	±	0.00056	0.00000 ± 0.00029			
Takamatsu, KAGAWA	10	- 12	10025.8	0.00016	±	0.00052	0.00000 ± 0.00029			
Saga, SAGA	10	- 12	10275.1	0.00034	±	0.00058	0.00053 ± 0.00033			
Nagasaki, NAGASAKI	10	- 12	8640.0	0.00085	±	0.00076	0.00000 ± 0.00035			
Uto, KUMAMOTO	10	- 12	14375.7	0.00074	±	0.00045	0.00031 ± 0.00023			
Oita, OITA	10	- 12	10368.0	0.00018	±	0.00047	0.00000 ± 0.00030			
Miyazaki, MIYAZAKI	10	- 12	13090.0	0.0010	±	0.00046	0.00030 ± 0.00024			
Nanjo, OKINAWA	10	- 12	11873.4	0.00048	±	0.00058	0.00000 ± 0.00026			
Jan. 2007~Mar. 2007										
Morioka, IWATE	01	- 03	10368.0	0.00033	±	0.00048	0.00000 ± 0.00032			
Akita, AKITA	01	- 03	10800.0	0.00000	±	0.00043	0.00000 ± 0.00027			
Yamagata, YAMAGATA	01	- 03	11520.0	0.00090	±	0.00054	0.00000 ± 0.00027			
Okuma-machi, FUKUSHIMA	01	- 03	10000.0	0.0011	±	0.00066	0.00000 ± 0.00028			
Mito, IBARAKI	01	- 03	10802.0	0.00031	±	0.00055	0.00009 ± 0.00031			
Kawachi-machi, TOCHIGI	01	- 03	15115.9	0.00000	±	0.00035	0.00006 ± 0.00021			
Maebashi, GUNMA	01	- 03	10144.7	0.00058	±	0.00064	0.00000 ± 0.00032			
Ichihara, CHIBA	01	- 03	10368.0	0.00000	±	0.00069	0.00000 ± 0.00026			
Chigasaki, KANAGAWA	01	- 03	12095.2	0.00068	±	0.00050	0.00014 ± 0.00027			
Niigata, NIIGATA	01	- 03	9935.7	0.00012	±	0.00065	0.00000 ± 0.00030			
Imizu, TOYAMA	01	- 03	18075.0	0.00011	±	0.00028	0.00000 ± 0.00019			
Fukui, FUKUI	01	- 03	12959.1	0.00016	±	0.00042	0.00003 ± 0.00025			
Kofu, YAMANASHI	01	- 03	10367.1	0.00010	±	0.00051	0.00000 ± 0.00031			
Nagano, NAGANO	01	- 03	11177.4	0.00081	±	0.00060	0.00024 ± 0.00029			
Kakamigahara, Gifu	01	- 03	12302.2	0.00000	±	0.00041	0.00000 ± 0.00026			
Omaezaki, SHIZUOKA	01	- 03	10246.0	0.0013	±	0.00074	0.00060 ± 0.00033			
Nagoya, AICHI	01	- 03	10366.1	0.00014	±	0.00046	0.00002 ± 0.00030			
Yokkaichi, MIE	01	- 03	14355.3	0.00039	±	0.00043	0.00000 ± 0.00021			

Location	Sampling Period		Absorption (m ³)	Sr-90 (mBq/m ³)		Cs-137 (mBq/m ³)	
Otsu, SHIGA	01	- 03	10157.4	0.00035	±	0.00052	0.00000 ± 0.00030
Kyoto, KYOTO	01	- 03	10141.8	0.00076	±	0.00050	0.00011 ± 0.00031
Osaka, OSAKA	01	- 03	14636.0	0.00054	±	0.00045	0.00013 ± 0.00022
Kobe, HYOGO	01	- 03	10367.4	0.0013	±	0.00064	0.00000 ± 0.00029
Nara, NARA	01	- 03	10510.2	0.00030	±	0.00045	0.00000 ± 0.00030
Wakayama, WAKAYAMA	01	- 03	11441.2	0.00000	±	0.00036	0.00000 ± 0.00029
Yur ihama-machi, TOTTORI	01	- 03	14340.0	0.00056	±	0.00040	0.00019 ± 0.00026
Okayama, OKAYAMA	01	- 03	13390.6	0.00009	±	0.00046	0.00018 ± 0.00023
Hiroshima, HIROSHIMA	01	- 03	10476.9	0.00095	±	0.00063	0.00000 ± 0.00028
Yamaguchi, YAMAGUCHI	01	- 03	21921.4	0.00017	±	0.00020	0.00025 ± 0.00016
Tokushima, TOKUSHIMA	01	- 03	10080.0	0.00000	±	0.00051	0.00000 ± 0.00029
Takamatsu, KAGAWA	01	- 03	10043.2	0.00067	±	0.00067	0.00000 ± 0.00033
Saga, SAGA	01	- 03	10006.7	0.0016	±	0.00074	0.00062 ± 0.00038
Uto, KUMAMOTO	01	- 03	14017.7	0.00000	±	0.00036	0.00032 ± 0.00024
Oita, OITA	01	- 03	10368.0	0.00034	±	0.00058	0.00000 ± 0.00027
Miyazaki, MIYAZAKI	01	- 03	13162.0	0.00043	±	0.00036	0.00024 ± 0.00027
Nanjo, OKINAWA	01	- 03	10247.6	0.00000	±	0.00050	0.00000 ± 0.00028

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

(from Apr. 2006 to Mar. 2007)

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

Location	pH (pH)		Sr-90 (mBq/L)		Cs-137 (mBq/L)		
(Source water)							
May 2006							
Sapporo, HOKKAIDO	7.0	1.2	±	0.13	0.11	±	0.050
Jun. 2006							
Saitama, SAITAMA	7.0	1.2	±	0.14	0.068	±	0.041
Katsushika, TOKYO	7.0	1.2	±	0.13	0.11	±	0.053
Sagamihara, KANAGAWA	8.1	0.30	±	0.076	0.000	±	0.042
Inuyama, AICHI	7.2	1.3	±	0.14	0.12	±	0.049
Kyoto, KYOTO	7.6	1.6	±	0.13	0.12	±	0.042
Moriguchi, OSAKA	7.2	1.8	±	0.15	0.071	±	0.049
Fukuoka, FUKUOKA	7.0	1.7	±	0.16	0.079	±	0.047
Jul. 2006							
Kisarazu, CHIBA	7.5	1.7	±	0.16	0.099	±	0.051
Nagano, NAGANO	7.2	0.60	±	0.10	0.073	±	0.047
(Tap water)							
Jun. 2006							
Wakkanai, HOKKAIDO	6.7	0.54	±	0.098	0.000	±	0.037
Aomori, AOMORI	6.6	1.1	±	0.17	0.055	±	0.065
Morioka, IWATE	7.0	0.67	±	0.11	0.026	±	0.038
Sendai, MIYAGI	—	1.1	±	0.13	0.000	±	0.043
Akita, AKITA	6.8	1.9	±	0.17	0.074	±	0.051
Fukushima, FUKUSHIMA	7.09	1.6	±	0.14	0.000	±	0.042
Mito, IBARAKI	7.3	0.99	±	0.13	0.000	±	0.039
Maebashi, GUNMA	6.75	1.0	±	0.14	0.076	±	0.043
Saitama, SAITAMA	6.9	1.1	±	0.13	0.041	±	0.041
Ichihara, CHIBA	6.2	1.9	±	0.16	0.009	±	0.042
Katsushika, TOKYO	7.1	1.1	±	0.14	0.026	±	0.050
Yokosuka, KANAGAWA	7.4	0.39	±	0.081	0.000	±	0.039
Niigata, NIIGATA	6.8	1.5	±	0.13	0.000	±	0.043
Imizu, TOYAMA	7.2	1.0	±	0.12	0.000	±	0.043
Kanazawa, ISHIKAWA	7.3	1.3	±	0.20	0.048	±	0.042

Location	pH (pH)		Sr-90 (mBq/L)			Cs-137 (mBq/L)	
Fukui, FUKUI	7.2	0.50	±	0.15	0.017	±	0.047
Kofu, YAMANASHI	6.7	1.0	±	0.13	0.000	±	0.046
Nagano, NAGANO	7.1	0.78	±	0.11	0.000	±	0.042
Kakamigahara, GIFU	7.5	0.017	±	0.091	0.000	±	0.040
Shizuoka, SHIZUOKA	8.0	0.30	±	0.097	0.000	±	0.046
Nagoya, AICHI	6.8	1.4	±	0.13	0.077	±	0.049
Yokkaichi, MIE	7.4	3.0	±	0.19	0.064	±	0.042
Otsu, SHIGA	7.0	1.9	±	0.16	0.000	±	0.044
Kyoto, KYOTO	7.1	1.8	±	0.14	0.052	±	0.042
Osaka, OSAKA	7.6	1.8	±	0.14	0.022	±	0.045
Kobe, HYOGO	7.30	2.0	±	0.16	0.000	±	0.040
Nara, NARA	7.5	1.8	±	0.15	0.000	±	0.040
Yurihama-machi, TOTTORI	7.7	0.000	±	0.092	0.055	±	0.040
Okayama, OKAYAMA	6.9	1.3	±	0.14	0.000	±	0.048
Hiroshima, HIROSHIMA	7.0	1.5	±	0.17	0.000	±	0.049
Ube, YAMAGUCHI	7.4	1.7	±	0.15	0.000	±	0.041
Tokushima, TOKUSHIMA	6.9	1.0	±	0.13	0.000	±	0.041
Takamatsu, KAGAWA	7.3	1.8	±	0.17	0.000	±	0.042
Matsuyama, EHIME	7.7	1.1	±	0.12	0.000	±	0.040
Fukuoka, FUKUOKA	6.9	1.9	±	0.17	0.000	±	0.041
Saga, SAGA	7.2	1.1	±	0.13	0.000	±	0.043
Uto, KUMAMOTO	7.4	0.000	±	0.053	0.044	±	0.049
Oita, OITA	7.5	0.71	±	0.17	0.094	±	0.074
Miyazaki, MIYAZAKI	7.2	1.2	±	0.17	0.044	±	0.071
Naha, OKINAWA	7.6	1.8	±	0.16	0.000	±	0.045
Jul. 2006							
Sasebo, NAGASAKI	6.9	0.94	±	0.13	0.000	±	0.044
Aug. 2006							
Kagoshima, KAGOSHIMA	7.5	0.51	±	0.094	0.049	±	0.049
Sep. 2006							
Shingu, WAKAYAMA	7.0	1.6	±	0.16	0.054	±	0.050
Dec. 2006							
Kochi, KOCHI	7.2	1.6	±	0.18	0.046	±	0.042
Jan. 2007							
Kawachi-machi, TOCHIGI	7.2	0.50	±	0.098	0.031	±	0.037

(4) Strontium-90 and Cesium-137 in Fresh water
(from Apr. 2006 to Mar. 2007)

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

Location	pH (pH)		Sr-90 (mBq/L)		Cs-137 (mBq/L)		
(Fresh water)							
May 2006							
IBARAKI	8.4	1.7	±	0.17	0.36	±	0.065
Jul. 2006							
Ishikari, HOKKAIDO	7.5	1.1	±	0.12	0.16	±	0.053
Aug. 2006							
Tsuruga, FUKUI	7.1	2.4	±	0.17	1.3	±	0.09
Sep. 2006							
Akita, AKITA	7.4	3.0	±	0.22	0.24	±	0.062
Fukushima, FUKUSHIMA	7.51	0.11	±	0.069	0.000	±	0.038
Oct. 2006							
NAGANO	9.1	0.75	±	0.11	0.19	±	0.049
Kameyama, MIE	7.4	4.3	±	0.21	0.049	±	0.045
Syobara, HIROSHIMA	7.0	1.5	±	0.17	0.037	±	0.050
Nov. 2006							
Niigata, NIIGATA	6.3	2.3	±	0.17	0.17	±	0.047
Dec. 2006							
Uji, KYOTO	6.8	0.024	±	0.072	0.024	±	0.035

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

(from Apr. 2006 to Mar. 2007)

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 2006													
Tokai-mura, IBARAKI	0 - 5	5.4	±	0.32	200	±	12	39	±	0.6	1500	±	20
Tokai-mura, IBARAKI	5 - 20	7.0	±	0.30	810	±	35	8.6	±	0.28	1000	±	32
Tahara, AICHI	0 - 5	0.38	±	0.099	19	±	4.9	4.8	±	0.20	240	±	10
Tahara, AICHI	5 - 20	0.62	±	0.13	67	±	14	4.4	±	0.19	470	±	21
Jun. 2006													
Fukushima, FUKUSHIMA	0 - 5	3.2	±	0.23	120	±	8	20	±	0.4	730	±	15
Fukushima, FUKUSHIMA	5 - 20	2.2	±	0.21	170	±	16	5.7	±	0.22	440	±	17
Jul. 2006													
Aomori, AOMORI	0 - 5	1.8	±	0.17	59	±	5.7	5.1	±	0.21	170	±	7
Gosyogawara, AOMORI	0 - 5	0.60	±	0.11	22	±	4.0	3.2	±	0.17	120	±	6
Aomori, AOMORI	5 - 20	2.1	±	0.22	220	±	24	5.7	±	0.23	620	±	25
Gosyogawara, AOMORI	5 - 20	1.1	±	0.14	120	±	15	4.3	±	0.20	480	±	22
Ichihara, CHIBA	0 - 5	0.000	±	0.060	0.0	±	3.2	0.96	±	0.094	51	±	5.0
Ichihara, CHIBA	5 - 20	0.10	±	0.075	21	±	15	0.30	±	0.058	62	±	12
Kashiwazaki, NIIGATA	0 - 5	1.5	±	0.15	88	±	8.4	5.9	±	0.22	340	±	13
Kashiwazaki, NIIGATA	5 - 20	1.3	±	0.14	170	±	18	4.7	±	0.21	610	±	27
Gifu, GIFU	0 - 5	0.56	±	0.098	21	±	3.7	3.6	±	0.18	140	±	7
Gifu, GIFU	5 - 20	0.72	±	0.11	92	±	14	4.0	±	0.19	510	±	24
Komono-machi, MIE	0 - 5	0.056	±	0.054	3.1	±	2.9	0.94	±	0.095	52	±	5.2
Komono-machi, MIE	5 - 20	0.034	±	0.050	9	±	14	0.11	±	0.053	31	±	15
Yasu, SHIGA	0 - 5	0.36	±	0.090	20	±	4.9	13	±	0.3	720	±	18
Yasu, SHIGA	5 - 20	0.35	±	0.088	42	±	11	2.8	±	0.16	340	±	19
Kyoto, KYOTO	0 - 5	0.88	±	0.12	17	±	2.4	2.5	±	0.15	48	±	3.0
Kyoto, KYOTO	5 - 20	0.79	±	0.12	160	±	23	4.7	±	0.20	910	±	39
Kasai, HYOGO	0 - 5	1.5	±	0.15	80	±	8.3	7.9	±	0.26	440	±	14
Kasai, HYOGO	5 - 20	0.31	±	0.088	37	±	11	1.1	±	0.10	130	±	12
Kashihara, NARA	0 - 5	0.51	±	0.12	28	±	6.4	4.1	±	0.19	230	±	10
Kashihara, NARA	5 - 20	0.57	±	0.12	57	±	12	4.6	±	0.20	460	±	20
Kurayoshi, TOTTORI	0 - 5	0.016	±	0.073	1.0	±	4.7	0.10	±	0.049	6.8	±	3.2
Kurayoshi, TOTTORI	5 - 20	0.047	±	0.076	3.4	±	5.5	0.031	±	0.045	2.3	±	3.3

Location	Sampling depth (cm)	Sr-90				Cs-137							
		(Bq/kg)		(MBq/km ²)		(Bq/kg)		(MBq/km ²)					
Oda, SHIMANE	0 - 5	3.5	±	0.22	54	±	3.5	20	±	0.4	310	±	6
Oda, SHIMANE	5 - 20	1.6	±	0.16	150	±	15	13	±	0.3	1300	±	30
Misaki-machi, OKAYAMA	0 - 5	0.52	±	0.13	22	±	5.8	0.18	±	0.040	7.8	±	1.8
Misaki-machi, OKAYAMA	5 - 20	0.18	±	0.093	21	±	11	0.17	±	0.055	20	±	6.4
Hiroshima, HIROSHIMA	0 - 5	0.83	±	0.12	56	±	7.8	6.1	±	0.23	410	±	15
Hiroshima, HIROSHIMA	5 - 20	1.6	±	0.16	250	±	25	4.8	±	0.20	740	±	31
Kamiita-machi, TOKUSHIMA	0 - 5	0.60	±	0.12	28	±	5.5	1.4	±	0.11	65	±	5.3
Kamiita-machi, TOKUSHIMA	5 - 20	0.55	±	0.12	55	±	13	2.0	±	0.13	200	±	14
Sakaide, KAGAWA	0 - 5	1.7	±	0.16	53	±	4.8	7.2	±	0.24	220	±	7
Sakaide, KAGAWA	5 - 20	1.6	±	0.15	120	±	11	1.2	±	0.11	90	±	7.9
Matsuyama, EHIME	0 - 5	0.67	±	0.11	24	±	4.0	18	±	0.4	660	±	14
Matsuyama, EHIME	5 - 20	0.20	±	0.079	23	±	8.9	7.2	±	0.24	810	±	27
Fukuoka, FUKUOKA	0 - 5	4.2	±	0.24	310	±	18	1.0	±	0.10	74	±	7.1
Fukuoka, FUKUOKA	5 - 20	2.2	±	0.19	320	±	27	0.46	±	0.073	67	±	11
Sasebo, NAGASAKI	0 - 5	0.50	±	0.12	14	±	3.4	2.0	±	0.14	59	±	4.0
Sasebo, NAGASAKI	5 - 20	0.31	±	0.11	12	±	4.4	1.8	±	0.13	70	±	5.0
Nishihara-mura, KUMAMOTO	0 - 5	2.9	±	0.20	56	±	4.0	47	±	0.6	930	±	12
Nishihara-mura, KUMAMOTO	5 - 20	3.2	±	0.21	180	±	12	15	±	0.4	870	±	21
Taketa, OITA	0 - 5	1.5	±	0.15	13	±	1.3	50	±	0.5	430	±	5
Taketa, OITA	5 - 20	1.5	±	0.18	71	±	8.4	18	±	0.4	840	±	18
Miyazaki, MIYAZAKI	0 - 5	0.51	±	0.10	26	±	5.2	1.5	±	0.12	76	±	6.0
Miyazaki, MIYAZAKI	5 - 20	0.74	±	0.12	140	±	22	2.2	±	0.14	420	±	26
Aug. 2006													
Sapporo, HOKKAIDO	0 - 5	4.6	±	0.25	130	±	7	17	±	0.4	480	±	10
Sapporo, HOKKAIDO	5 - 20	4.7	±	0.26	500	±	28	10	±	0.3	1100	±	30
Takizawa-mura, IWATE	0 - 5	7.7	±	0.33	230	±	10	44	±	0.6	1300	±	20
Takizawa-mura, IWATE	5 - 20	7.9	±	0.34	830	±	36	7.3	±	0.25	780	±	26
Yamagata, YAMAGATA	0 - 5	2.6	±	0.20	100	±	8	16	±	0.4	600	±	14
Yamagata, YAMAGATA	5 - 20	1.2	±	0.14	130	±	15	3.2	±	0.16	330	±	17
Nikko, TOCHIGIO	0 - 5	6.4	±	0.29	98	±	4.5	43	±	0.6	660	±	9
Nikko, TOCHIGIO	5 - 20	2.9	±	0.21	100	±	7	12	±	0.3	420	±	12
Maebashi, GUNMA	0 - 5	0.88	±	0.12	42	±	5.9	2.4	±	0.14	110	±	7
Maebashi, GUNMA	5 - 20	0.66	±	0.11	86	±	15	0.94	±	0.096	120	±	13
Saitama, SAITAMA	0 - 5	0.92	±	0.13	27	±	4.0	5.2	±	0.21	150	±	6

Location	Sampling depth (cm)	Sr-90				Cs-137							
		(Bq/kg)		(MBq/km ²)		(Bq/kg)		(MBq/km ²)					
Saitama, SAITAMA	5 - 20	0.61	±	0.12	70	±	14	0.86	±	0.090	99	±	10
Shinjuku, TOKYO	0 - 5	0.86	±	0.12	18	±	2.6	2.6	±	0.16	55	±	3.4
Shinjuku, TOKYO	5 - 20	0.55	±	0.098	27	±	4.9	3.5	±	0.18	170	±	9
Yokosuka, KANAGAWA	0 - 5	1.7	±	0.17	67	±	6.6	4.5	±	0.19	170	±	8
Yokosuka, KANAGAWA	5 - 20	2.3	±	0.19	300	±	26	3.6	±	0.18	470	±	23
Imizu, TOYAMA	0 - 5	0.13	±	0.073	6.9	±	3.8	0.94	±	0.092	49	±	4.8
Imizu, TOYAMA	5 - 20	0.26	±	0.082	40	±	13	0.58	±	0.077	89	±	12
Kanazawa, ISHIKAWA	0 - 5	9.2	±	0.37	230	±	9	28	±	0.5	670	±	12
Kanazawa, ISHIKAWA	5 - 20	8.9	±	0.35	910	±	36	24	±	0.4	2500	±	50
Hokuto, YAMANASHI	0 - 5	5.4	±	0.28	88	±	4.6	20	±	0.4	320	±	7
Hokuto, YAMANASHI	5 - 20	5.2	±	0.28	290	±	16	11	±	0.3	600	±	17
Nagano, NAGANO	0 - 5	6.9	±	0.31	120	±	5	77	±	0.8	1300	±	10
Nagano, NAGANO	5 - 20	4.9	±	0.27	310	±	17	13	±	0.3	850	±	21
Gotenba, SHIZUOKA	0 - 5	0.42	±	0.095	14	±	3.1	9.5	±	0.30	310	±	10
Gotenba, SHIZUOKA	5 - 20	0.37	±	0.087	29	±	6.9	3.9	±	0.19	310	±	15
Osaka, OSAKA	0 - 5	0.23	±	0.079	11	±	4.0	2.0	±	0.14	100	±	7
Osaka, OSAKA	5 - 20	0.65	±	0.12	96	±	17	3.7	±	0.18	550	±	27
Shingu, WAKAYAMA	0 - 5	0.096	±	0.061	3.4	±	2.2	1.6	±	0.13	57	±	4.6
Shingu, WAKAYAMA	5 - 20	0.14	±	0.066	11	±	5.6	0.38	±	0.069	33	±	5.8
Hagi, YAMAGUCHI	0 - 5	0.61	±	0.10	39	±	6.6	2.6	±	0.15	170	±	9
Hagi, YAMAGUCHI	5 - 20	0.82	±	0.12	190	±	28	1.5	±	0.12	340	±	27
Kochi, KOCHI	0 - 5	3.0	±	0.21	75	±	5.1	18	±	0.4	440	±	10
Kochi, KOCHI	5 - 20	3.6	±	0.22	160	±	10	6.4	±	0.23	280	±	10
Saga, SAGA	0 - 5	0.28	±	0.072	24	±	6.1	1.2	±	0.11	99	±	9.2
Saga, SAGA	5 - 20	0.13	±	0.059	24	±	11	0.26	±	0.060	48	±	11
Naha, OKINAWA	0 - 5	1.0	±	0.12	60	±	6.9	3.6	±	0.19	210	±	11
Uruma, OKINAWA	0 - 5	0.25	±	0.077	17	±	5.1	0.49	±	0.072	32	±	4.7
Naha, OKINAWA	5 - 20	0.95	±	0.11	190	±	22	3.1	±	0.17	600	±	32
Uruma, OKINAWA	5 - 20	0.20	±	0.075	36	±	13	0.60	±	0.080	110	±	14
Sep. 2006													
Osaki, MIYAGI	0 - 5	1.6	±	0.15	68	±	6.5	3.7	±	0.18	160	±	8
Osaki, MIYAGI	5 - 20	1.5	±	0.15	270	±	27	2.1	±	0.14	360	±	25
Akita, AKITA	0 - 5	4.5	±	0.25	110	±	6	25	±	0.5	600	±	11
Akita, AKITA	5 - 20	4.7	±	0.26	600	±	33	23	±	0.4	2900	±	50

Location	Sampling depth (cm)	Sr-90					Cs-137						
		(Bq/kg)		(MBq/km ²)			(Bq/kg)		(MBq/km ²)				
Fukui, FUKUI	0 - 5	0.041	±	0.067	0.7	±	1.2	1.3	±	0.12	25	±	2.2
Fukui, FUKUI	5 - 20	0.31	±	0.092	36	±	11	1.1	±	0.11	130	±	13
Ibusuki, KAGOSHIMA	0 - 5	0.007	±	0.048	0.3	±	2.0	0.52	±	0.074	22	±	3.1
Ibusuki, KAGOSHIMA	5 - 20	0.32	±	0.087	29	±	7.9	1.0	±	0.10	94	±	8.9

(6) Strontium-90 and Cesium-137 in Seawater
(from Apr. 2006 to Mar. 2007)

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

Location	Sample Volume analyzed (L)	Cl (‰)	Sr-90			Cs-137		
			(mBq/L)			(mBq/L)		
Jun. 2006								
Yoichi-bay, HOKKAIDO	30.0	18.48	1.4	±	0.29	1.9	±	0.32
Jul. 2006								
Hirono-machi, IWATE	30.0	18.3	1.6	±	0.31	2.0	±	0.33
Soma, FUKUSHIMA	30.0	14.42	1.4	±	0.29	1.6	±	0.31
Tokai-mura, IBARAKI	30.0	17.38	1.3	±	0.28	1.9	±	0.32
Ichihara, CHIBA	30.0	20.2	0.91	±	0.25	1.1	±	0.28
Niigata, NIIGATA	30.0	18.5	1.2	±	0.28	1.9	±	0.31
Aug. 2006								
Fukaura-machi, AOMORI	30.0	17.44	1.8	±	0.30	1.5	±	0.30
Hiranai-machi, AOMORI	30.0	17.89	1.1	±	0.28	1.5	±	0.30
Odawa-bay, KANAGAWA	30.0	21.11	1.7	±	0.29	1.6	±	0.31
Yamaguchi-bay, YAMAGUCHI	30.0	13.5	1.4	±	0.30	1.1	±	0.29
Kitakyusyu, FUKUOKA	30.0	17.2	0.99	±	0.26	1.7	±	0.31
White-beach, OKINAWA	30.0	18.9	1.0	±	0.25	1.5	±	0.30
Sep. 2006								
Tokoname, AICHI	30.0	15.23	1.0	±	0.26	1.8	±	0.32
Osaka-Port, OSAKA	30.0	11.88	1.5	±	0.28	0.97	±	0.26
Minamisatsuma, KAGOSHIMA	30.0	15.204	1.2	±	0.25	1.4	±	0.31

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

(from Apr. 2006 to Mar. 2007)

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

Location	Depth (m)		Sr-90 (Bq/kg)			Cs-137 (Bq/kg)	
Jun. 2006							
Yoichi-bay, HOKKAIDO	13	0.039	±	0.058	0.28	±	0.062
Jul. 2006							
Hirono-machi, IWATE	24.0	0.000	±	0.049	0.22	±	0.058
Soma, FUKUSHIMA	5.0	0.006	±	0.053	0.32	±	0.058
Tokai-mura, IBARAKI	17.0	0.014	±	0.060	0.14	±	0.054
Ichihara, CHIBA	14.0	0.054	±	0.054	2.0	±	0.13
Niigata, NIIGATA	28.0	0.066	±	0.061	1.9	±	0.13
Aug. 2006							
Fukaura-machi, AOMORI	15.0	0.073	±	0.059	0.46	±	0.072
Hiranai-machi, AOMORI	14.0	0.019	±	0.051	1.1	±	0.10
Odawa-bay, KANAGAWA	7.2	0.082	±	0.058	0.88	±	0.095
Yamaguchi-bay, YAMAGUCHI	11.2	0.10	±	0.062	2.0	±	0.14
Kitakyusyu, FUKUOKA	8.0	0.35	±	0.087	2.0	±	0.14
Sep. 2006							
Tokoname, AICHI	21.2	0.079	±	0.059	0.30	±	0.057
Osaka-Port, OSAKA	17.3	0.000	±	0.050	2.0	±	0.14
Minamisatsuma, KAGOSHIMA	7.0	0.000	±	0.052	0.20	±	0.050
White-beach, OKINAWA	13.6	0.17	±	0.065	0.097	±	0.045

(8) Strontium-90 and Cesium-137 in Total diet
(from Apr. 2006 to Mar. 2007)

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

Location	(p/d : person/day)														
	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)		
Jun. 2006															
Sapporo, HOKKAIDO	14.4	452	1480	0.050	±	0.0094	0.11	±	0.021	0.016	±	0.0049	0.011	±	0.0033
Aomori, AOMORI	19.8	733	2630	0.091	±	0.012	0.12	±	0.017	0.024	±	0.0059	0.0093	±	0.0023
Morioka, IWATE	9.87	433	1180	0.023	±	0.0077	0.054	±	0.018	0.0047	±	0.0048	0.0040	±	0.0041
Akita, AKITA	11.6	371	1420	0.027	±	0.0081	0.072	±	0.022	0.060	±	0.0081	0.042	±	0.0057
Yamagata, YAMAGATA	12.4	383	1500	0.027	±	0.0080	0.072	±	0.021	0.032	±	0.0063	0.021	±	0.0042
Fukushima, FUKUSHIMA	12.5	481	1490	0.029	±	0.0087	0.061	±	0.018	0.012	±	0.0048	0.0084	±	0.0032
Mito, IBARAKI	18.6	694	2790	0.032	±	0.0090	0.046	±	0.013	0.020	±	0.0049	0.0071	±	0.0018
Utsunomiya, TOCHIGI	17.8	488	2030	0.033	±	0.0087	0.069	±	0.018	0.024	±	0.0062	0.012	±	0.0031
Maebashi, GUNMA	17.9	505	2270	0.041	±	0.0095	0.081	±	0.019	0.015	±	0.0059	0.0066	±	0.0026
Saitama, SAITAMA	16.4	349	1920	0.024	±	0.0073	0.068	±	0.021	0.0079	±	0.0042	0.0041	±	0.0022
Chiba, CHIBA	15.4	419	2190	0.060	±	0.010	0.14	±	0.024	0.014	±	0.0048	0.0062	±	0.0022
Shinjuku, TOKYO	13.0	393	1660	0.035	±	0.0082	0.090	±	0.021	0.0064	±	0.0040	0.0038	±	0.0024
Niigata, NIIGATA	20.2	640	2790	0.046	±	0.0094	0.072	±	0.015	0.014	±	0.0052	0.0051	±	0.0019
Toyama, TOYAMA	11.9	321	1340	0.011	±	0.0065	0.035	±	0.020	0.026	±	0.0057	0.019	±	0.0043
Kanazawa, ISHIKAWA	17.1	510	2270	0.032	±	0.0082	0.062	±	0.016	0.17	±	0.013	0.077	±	0.0056
Kofu, YAMANASHI	12.9	397	1440	0.021	±	0.0082	0.052	±	0.021	0.018	±	0.0059	0.012	±	0.0041
Nagano, NAGANO	13.8	552	1960	0.022	±	0.0069	0.039	±	0.012	0.023	±	0.0055	0.012	±	0.0028
Gifu, GIFU	17.3	424	2110	0.021	±	0.0067	0.049	±	0.016	0.10	±	0.010	0.048	±	0.0046
Shizuoka, SHIZUOKA	12.8	433	1790	0.033	±	0.0077	0.077	±	0.018	0.027	±	0.0060	0.015	±	0.0034
Nagoya, AICHI	16.2	389	1640	0.033	±	0.0078	0.084	±	0.020	0.012	±	0.0050	0.0076	±	0.0031
Tsu, MIE	19.0	429	2090	0.059	±	0.010	0.14	±	0.024	0.010	±	0.0045	0.0049	±	0.0022
Otsu, SHIGA	11.9	451	1390	0.030	±	0.0089	0.067	±	0.020	0.019	±	0.0062	0.014	±	0.0044
Kyoto, KYOTO	12.0	419	1690	0.019	±	0.0073	0.044	±	0.017	0.018	±	0.0054	0.011	±	0.0032
Osaka, OSAKA	13.0	449	1650	0.040	±	0.0099	0.090	±	0.022	0.014	±	0.0057	0.0085	±	0.0035
Kakogawa, HYOGO	12.7	437	1750	0.028	±	0.0080	0.063	±	0.018	0.013	±	0.0046	0.0074	±	0.0026
Kashihara, NARA	9.27	435	1330	0.038	±	0.0083	0.088	±	0.019	0.019	±	0.0052	0.014	±	0.0039
Tottori, TOTTORI	13.6	419	1780	0.040	±	0.010	0.096	±	0.025	0.018	±	0.0058	0.010	±	0.0032
Matsue, SHIMANE	17.1	532	2000	0.040	±	0.0090	0.074	±	0.017	0.025	±	0.0061	0.012	±	0.0031
Okayama, OKAYAMA	13.6	715	1630	0.029	±	0.0077	0.040	±	0.011	0.016	±	0.0050	0.0096	±	0.0030
Hiroshima, HIROSHIMA	12.0	457	1540	0.026	±	0.0077	0.056	±	0.017	0.020	±	0.0053	0.013	±	0.0034
Yamaguchi, YAMAGUCHI	13.4	355	1980	0.031	±	0.0080	0.087	±	0.022	0.019	±	0.0052	0.0098	±	0.0026
Tokushima, TOKUSHIMA	14.7	470	1730	0.022	±	0.0078	0.046	±	0.017	0.015	±	0.0050	0.0087	±	0.0029

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)		
Takamatsu, KAGAWA	13.2	552	1970	0.036	± 0.0079	0.065	± 0.014	0.013	± 0.0051	0.0064	± 0.0026		
Matsuyama, EHIME	13.8	593	1850	0.029	± 0.0080	0.049	± 0.013	0.021	± 0.0056	0.011	± 0.0030		
Kochi, KOCHI	14.5	526	2510	0.062	± 0.011	0.12	± 0.021	0.026	± 0.0057	0.010	± 0.0023		
Dazaifu, FUKUOKA	13.1	369	1690	0.022	± 0.0068	0.060	± 0.018	0.0075	± 0.0047	0.0044	± 0.0028		
Saga, SAGA	15.4	427	2280	0.043	± 0.0093	0.10	± 0.022	0.024	± 0.0060	0.011	± 0.0026		
Kumamoto, KUMAMOTO	18.4	574	2320	0.046	± 0.0082	0.079	± 0.014	0.024	± 0.0057	0.010	± 0.0025		
Oita, OITA	12.0	391	1490	0.017	± 0.0066	0.043	± 0.017	0.026	± 0.0057	0.017	± 0.0038		
Miyazaki, MIYAZAKI	13.4	497	1970	0.047	± 0.0098	0.094	± 0.020	0.028	± 0.0058	0.014	± 0.0030		
Satsumasendai, KAGOSHIMA	17.1	976	1830	0.046	± 0.0084	0.047	± 0.0086	0.020	± 0.0056	0.011	± 0.0030		
Naha, OKINAWA	14.8	622	1940	0.033	± 0.0085	0.053	± 0.014	0.020	± 0.0053	0.010	± 0.0027		
Jul. 2006													
Ishinomaki, MIYAGI	14.3	386	1940	0.041	± 0.0094	0.11	± 0.024	0.013	± 0.0051	0.0069	± 0.0026		
Hiratsuka, KANAGAWA	13.1	548	2100	0.042	± 0.0086	0.077	± 0.016	0.073	± 0.0085	0.035	± 0.0041		
Wakayama, WAKAYAMA	14.4	520	2030	0.013	± 0.0068	0.025	± 0.013	0.015	± 0.0051	0.0073	± 0.0025		
Nagasaki, NAGASAKI	20.2	574	3390	0.023	± 0.0080	0.041	± 0.014	0.019	± 0.0052	0.0056	± 0.0015		
Aug. 2006													
Fukui, FUKUI	18.9	280	2340	0.017	± 0.0074	0.061	± 0.026	0.029	± 0.0062	0.012	± 0.0026		
Oct. 2006													
Nagasaki, NAGASAKI	19.1	449	1680	0.041	± 0.0089	0.091	± 0.020	0.021	± 0.0057	0.013	± 0.0034		
Nov. 2006													
Ishinomaki, MIYAGI	16.6	470	2220	0.026	± 0.0079	0.055	± 0.017	0.011	± 0.0046	0.0049	± 0.0021		
Yamagata, YAMAGATA	13.4	382	1610	0.045	± 0.0094	0.12	± 0.025	0.0073	± 0.0051	0.0045	± 0.0032		
Fukushima, FUKUSHIMA	13.6	502	2030	0.011	± 0.0067	0.022	± 0.013	0.069	± 0.0081	0.034	± 0.0040		
Saitama, SAITAMA	17.1	576	1920	0.036	± 0.0089	0.063	± 0.016	0.019	± 0.0060	0.0098	± 0.0031		
Hiratsuka, KANAGAWA	12.5	464	2130	0.027	± 0.0088	0.058	± 0.019	0.028	± 0.0056	0.013	± 0.0026		
Fukui, FUKUI	16.8	1000	1920	0.065	± 0.0096	0.065	± 0.0096	0.016	± 0.0053	0.0086	± 0.0028		
Nagano, NAGANO	14.8	835	2350	0.025	± 0.0087	0.030	± 0.010	0.025	± 0.0058	0.011	± 0.0025		
Shizuoka, SHIZUOKA	14.8	487	2280	0.038	± 0.010	0.079	± 0.021	0.034	± 0.0064	0.015	± 0.0028		
Nagoya, AICHI	19.5	343	2050	0.019	± 0.0080	0.055	± 0.023	0.017	± 0.0051	0.0084	± 0.0025		
Kashihara, NARA	9.85	938	1230	0.025	± 0.0084	0.027	± 0.0090	0.018	± 0.0052	0.015	± 0.0042		
Wakayama, WAKAYAMA	12.4	498	1460	0.019	± 0.0071	0.038	± 0.014	0.010	± 0.0046	0.0070	± 0.0031		
Tottori, TOTTORI	10.5	420	1420	0.031	± 0.0085	0.074	± 0.020	0.019	± 0.0054	0.013	± 0.0038		
Matsue, SHIMANE	12.1	428	1720	0.036	± 0.0075	0.084	± 0.018	0.031	± 0.0063	0.018	± 0.0037		
Okayama, OKAYAMA	15.7	557	2200	0.019	± 0.0074	0.034	± 0.013	0.0063	± 0.0043	0.0029	± 0.0020		
Matsuyama, EHIME	13.8	502	1820	0.0096	± 0.0068	0.019	± 0.013	0.021	± 0.0050	0.011	± 0.0027		
Kochi, KOCHI	17.7	501	3010	0.066	± 0.014	0.13	± 0.028	0.56	± 0.022	0.19	± 0.007		

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	11.2	424	1670	0.043	±	0.0093	0.10	±	0.022	0.023	±	0.0054	0.014	±	0.0032
Oita, OITA	13.9	413	1960	0.040	±	0.0086	0.096	±	0.021	0.027	±	0.0062	0.014	±	0.0032
Satsumasendai, KAGOSHIMA	14.7	325	1960	0.063	±	0.011	0.19	±	0.034	0.043	±	0.0065	0.022	±	0.0033
Dec. 2006															
Sapporo, HOKKAIDO	18.0	502	1930	0.050	±	0.0095	0.099	±	0.019	0.017	±	0.0052	0.0087	±	0.0027
Aomori, AOMORI	18.7	712	2920	0.061	±	0.011	0.085	±	0.015	0.044	±	0.0071	0.015	±	0.0024
Morioka, IWATE	15.5	367	1510	0.033	±	0.012	0.090	±	0.033	0.029	±	0.0060	0.019	±	0.0040
Akita, AKITA	15.7	444	2100	0.038	±	0.0087	0.086	±	0.020	0.033	±	0.0065	0.016	±	0.0031
Mito, IBARAKI	18.8	643	1900	0.026	±	0.0085	0.041	±	0.013	0.019	±	0.0048	0.0099	±	0.0025
Utsunomiya, TOCHIGI	16.3	564	2170	0.040	±	0.0089	0.072	±	0.016	0.020	±	0.0049	0.0092	±	0.0023
Maebashi, GUNMA	17.2	557	2370	0.037	±	0.0092	0.066	±	0.017	0.031	±	0.0059	0.013	±	0.0025
Chiba, CHIBA	16.4	513	2200	0.034	±	0.0088	0.067	±	0.017	0.031	±	0.0058	0.014	±	0.0026
Shinjuku, TOKYO	14.4	343	1800	0.031	±	0.0092	0.091	±	0.027	0.0084	±	0.0045	0.0046	±	0.0025
Niigata, NIIGATA	23.4	592	3460	0.049	±	0.0096	0.083	±	0.016	0.018	±	0.0057	0.0053	±	0.0016
Toyama, TOYAMA	11.1	331	1510	0.018	±	0.0072	0.053	±	0.022	0.019	±	0.0053	0.013	±	0.0035
Kofu, YAMANASHI	11.4	522	2060	0.016	±	0.0071	0.031	±	0.014	0.026	±	0.0058	0.013	±	0.0028
Gifu, GIFU	17.9	523	2090	0.024	±	0.0084	0.045	±	0.016	0.017	±	0.0052	0.0082	±	0.0025
Tsu, MIE	20.1	424	2190	0.057	±	0.0099	0.13	±	0.023	0.033	±	0.0064	0.015	±	0.0029
Otsu, SHIGA	14.1	530	1780	0.033	±	0.0076	0.062	±	0.014	0.019	±	0.0055	0.011	±	0.0031
Kyoto, KYOTO	15.7	667	2040	0.039	±	0.0089	0.059	±	0.013	0.036	±	0.0061	0.018	±	0.0030
Osaka, OSAKA	12.7	287	1940	0.028	±	0.0069	0.097	±	0.024	0.0058	±	0.0044	0.0030	±	0.0023
Kakogawa, HYOGO	11.2	530	1600	0.035	±	0.0083	0.066	±	0.016	0.0008	±	0.0043	0.0005	±	0.0027
Hiroshima, HIROSHIMA	13.5	230	1500	0.011	±	0.0076	0.048	±	0.033	0.0093	±	0.0040	0.0062	±	0.0027
Yamaguchi, YAMAGUCHI	15.2	467	1880	0.044	±	0.0087	0.095	±	0.019	0.020	±	0.0056	0.010	±	0.0030
Tokushima, TOKUSHIMA	11.7	410	1440	0.016	±	0.0066	0.039	±	0.016	0.0024	±	0.0043	0.0017	±	0.0030
Takamatsu, KAGAWA	15.4	524	2480	0.028	±	0.0078	0.054	±	0.015	0.010	±	0.0052	0.0041	±	0.0021
Saga, SAGA	15.0	359	1790	0.033	±	0.0089	0.092	±	0.025	0.020	±	0.0050	0.011	±	0.0028
Kumamoto, KUMAMOTO	19.4	516	2500	0.047	±	0.010	0.092	±	0.020	0.034	±	0.0060	0.013	±	0.0024
Miyazaki, MIYAZAKI	15.6	502	1860	0.032	±	0.0091	0.064	±	0.018	0.024	±	0.0053	0.013	±	0.0029
Naha, OKINAWA	11.6	326	1690	0.034	±	0.0073	0.11	±	0.022	0.039	±	0.0066	0.023	±	0.0039
Jan. 2007															
Kanazawa, ISHIKAWA	20.5	656	2500	0.034	±	0.0083	0.052	±	0.013	0.035	±	0.0062	0.014	±	0.0025

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

(from Apr. 2006 to Mar. 2007)

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)		
Jul. 2006													
Uruma, OKINAWA	0.434	0.026	0.651	0.0058 ±	0.0053	0.23 ±	0.21	0.0000 ±	0.0042	0.0000 ±	0.0065		
Aug. 2006													
Miyazaki, MIYAZAKI	0.571	0.036	0.748	0.0026 ±	0.0059	0.07 ±	0.16	0.0000 ±	0.0034	0.0000 ±	0.0045		
Sep. 2006													
Gifu, GIFU	0.627	0.038	0.947	0.0000 ±	0.0043	0.00 ±	0.11	0.0031 ±	0.0041	0.0033 ±	0.0044		
Matsusaka, MIE	0.473	0.043	0.738	0.0081 ±	0.0055	0.19 ±	0.13	0.0000 ±	0.0038	0.0000 ±	0.0051		
Oct. 2006													
Akita, AKITA	0.607	0.037	0.668	0.011 ±	0.0059	0.30 ±	0.16	0.0083 ±	0.0049	0.012 ±	0.0073		
Chiba, CHIBA	0.565	0.039	0.825	0.0095 ±	0.0068	0.25 ±	0.18	0.0000 ±	0.0038	0.0000 ±	0.0046		
Niigata, NIIGATA	0.562	0.036	0.742	0.016 ±	0.0067	0.44 ±	0.19	0.0039 ±	0.0049	0.0052 ±	0.0066		
Imizu, TOYAMA	0.648	0.043	0.816	0.0081 ±	0.0066	0.19 ±	0.15	0.013 ±	0.0047	0.016 ±	0.0058		
Uchinada-machi, ISHIKAWA	0.604	0.038	0.761	0.0014 ±	0.0064	0.04 ±	0.17	0.0025 ±	0.0046	0.0032 ±	0.0061		
Azumino, NAGANO	0.658	0.041	0.869	0.0000 ±	0.0043	0.00 ±	0.11	0.0000 ±	0.0042	0.0000 ±	0.0048		
Otsu, SHIGA	0.666	0.049	0.759	0.0020 ±	0.0050	0.04 ±	0.10	0.015 ±	0.0053	0.020 ±	0.0070		
Yamaguchi, YAMAGUCHI	0.738	0.050	1.00	0.0085 ±	0.0058	0.17 ±	0.12	0.013 ±	0.0051	0.013 ±	0.0051		
Miki-machi, KAGAWA	0.609	0.041	0.792	0.0000 ±	0.0053	0.00 ±	0.13	0.0000 ±	0.0034	0.0000 ±	0.0043		
Koshi, KUMAMOTO	0.803	0.049	0.988	0.0086 ±	0.0054	0.18 ±	0.11	0.0035 ±	0.0040	0.0035 ±	0.0040		
Nov. 2006													
Ishikari, HOKKAIDO	0.646	0.040	0.891	0.0033 ±	0.0056	0.08 ±	0.14	0.0044 ±	0.0043	0.0049 ±	0.0048		
Hirosaki, AOMORI	0.593	0.033	0.919	0.0054 ±	0.0064	0.16 ±	0.19	0.026 ±	0.0057	0.028 ±	0.0062		
Takizawa-mura, IWATE	0.631	0.040	0.858	0.011 ±	0.0059	0.27 ±	0.15	0.041 ±	0.0072	0.048 ±	0.0084		
Ishinomaki, MIYAGI	0.684	0.041	0.855	0.0000 ±	0.0050	0.00 ±	0.12	0.010 ±	0.0041	0.012 ±	0.0048		
Fukushima, FUKUSHIMA	0.706	0.043	0.861	0.0000 ±	0.0058	0.00 ±	0.14	0.017 ±	0.0051	0.020 ±	0.0059		
Utsunomiya, TOCHIGI	0.798	0.043	0.676	0.0018 ±	0.0049	0.04 ±	0.11	0.042 ±	0.0071	0.062 ±	0.010		
Yokosuka, KANAGAWA	0.768	0.050	1.15	0.0000 ±	0.0053	0.00 ±	0.11	0.0000 ±	0.0037	0.0000 ±	0.0032		
Kasai, HYOGO	0.597	0.047	0.764	0.0000 ±	0.0048	0.00 ±	0.10	0.0031 ±	0.0033	0.0041 ±	0.0043		
Kashihara, NARA	0.642	0.047	0.815	0.0000 ±	0.0064	0.00 ±	0.14	0.0028 ±	0.0036	0.0034 ±	0.0044		
Usa, OITA	0.631	0.035	0.833	0.0073 ±	0.0061	0.21 ±	0.17	0.0036 ±	0.0042	0.0043 ±	0.0050		

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. 2006												
Mito, IBARAKI	0.681	0.043	0.671	0.014	± 0.0058	0.31	± 0.13	0.0019	± 0.0037	0.0028	± 0.0056	
Maebashi, GUNMA	0.547	0.039	0.522	0.0018	± 0.0048	0.05	± 0.12	0.087	± 0.0097	0.17	± 0.019	
Hokuto, YAMANASHI	0.710	0.041	0.937	0.0035	± 0.0049	0.08	± 0.12	0.0019	± 0.0038	0.0021	± 0.0041	
Chikushino, FUKUOKA	0.646	0.048	0.488	0.0039	± 0.0039	0.081	± 0.081	0.070	± 0.0086	0.14	± 0.018	
Saga, SAGA	0.481	0.038	0.702	0.011	± 0.0056	0.30	± 0.15	0.0056	± 0.0044	0.0080	± 0.0062	
Jan. 2007												
Ishii-machi, TOKUSHIMA	0.531	0.038	0.759	0.0048	± 0.0050	0.13	± 0.13	0.0004	± 0.0036	0.0005	± 0.0047	
Sasebo, NAGASAKI	0.642	0.049	0.751	0.0088	± 0.0052	0.18	± 0.11	0.039	± 0.0068	0.052	± 0.0091	

(9)-2

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

(from Apr. 2006 to Mar. 2007)

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. 2006													
Saitama, SAITAMA	0.482	0.040	0.588	0.0014 ±	0.0063	0.03 ±	0.16	0.0000 ±	0.0034	0.0000 ±	0.0058		
Niigata, NIIGATA	0.597	0.041	0.728	0.013 ±	0.0065	0.32 ±	0.16	0.0000 ±	0.0042	0.0000 ±	0.0058		
Fukui, FUKUI	0.585	0.038	0.696	0.0077 ±	0.0044	0.20 ±	0.12	0.0000 ±	0.0044	0.0000 ±	0.0063		
Shingu, WAKAYAMA	0.590	0.040	0.885	0.0053 ±	0.0063	0.13 ±	0.16	0.055 ±	0.0076	0.062 ±	0.0086		
Hiroshima, HIROSHIMA	0.587	0.037	0.775	0.0015 ±	0.0073	0.04 ±	0.20	0.041 ±	0.0065	0.053 ±	0.0084		
Uruma, OKINAWA	0.622	0.041	0.778	0.0000 ±	0.0062	0.00 ±	0.15	0.0000 ±	0.0033	0.0000 ±	0.0042		
Nov. 2006													
Sapporo, HOKKAIDO	0.716	0.044	0.924	0.011 ±	0.0069	0.24 ±	0.15	0.0000 ±	0.0037	0.0000 ±	0.0041		
Yamagata, YAMAGATA	0.631	0.045	0.569	0.015 ±	0.0054	0.34 ±	0.12	0.0031 ±	0.0047	0.0054 ±	0.0082		
Shinjuku, TOKYO	0.545	0.044	0.741	0.0000 ±	0.0051	0.00 ±	0.12	0.20 ±	0.013	0.27 ±	0.018		
Chigasaki, KANAGAWA	0.531	0.041	0.738	0.0027 ±	0.0064	0.07 ±	0.16	0.015 ±	0.0055	0.020 ±	0.0074		
Shizuoka, SHIZUOKA	0.627	0.041	0.828	0.0006 ±	0.0050	0.02 ±	0.12	0.015 ±	0.0045	0.018 ±	0.0055		
Osaka, OSAKA	0.624	0.041	0.555	0.015 ±	0.0055	0.35 ±	0.13	0.0000 ±	0.0038	0.0000 ±	0.0069		
Kobe, HYOGO	0.645	0.040	0.716	0.0019 ±	0.0053	0.05 ±	0.13	0.035 ±	0.0059	0.049 ±	0.0083		
Seto-machi, OKAYAMA	0.593	0.045	0.670	0.0053 ±	0.0051	0.12 ±	0.11	0.034 ±	0.0065	0.051 ±	0.0097		
Matsuyama, EHIME	0.607	0.039	0.777	0.0000 ±	0.0047	0.00 ±	0.12	0.0025 ±	0.0043	0.0032 ±	0.0055		
Kagoshima, KAGOSHIMA	0.579	0.039	0.828	0.0000 ±	0.0054	0.00 ±	0.14	0.030 ±	0.0059	0.036 ±	0.0071		
Dec. 2006													
Nagoya, AICHI	0.650	0.044	0.858	0.0000 ±	0.0060	0.00 ±	0.14	0.0051 ±	0.0038	0.0060 ±	0.0045		
Kyoto, KYOTO	0.549	0.039	0.686	0.0006 ±	0.0047	0.02 ±	0.12	0.039 ±	0.0068	0.057 ±	0.0099		
Kurayoshi, TOTTORI	0.586	0.041	0.709	0.0041 ±	0.0049	0.10 ±	0.12	0.047 ±	0.0072	0.066 ±	0.010		
Matsue, SHIMANE	0.646	0.038	0.866	0.0000 ±	0.0063	0.00 ±	0.16	0.024 ±	0.0054	0.028 ±	0.0063		
Kasuga, FUKUOKA	0.718	0.039	0.732	0.016 ±	0.0056	0.40 ±	0.14	0.0008 ±	0.0046	0.0011 ±	0.0063		
Jan. 2007													
Kochi, KOCHI	0.511	0.037	0.802	0.0049 ±	0.0051	0.13 ±	0.14	0.0042 ±	0.0040	0.0052 ±	0.0050		

(10)-1

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

(from Apr. 2006 to Mar. 2007)

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 2006															
Sapporo, HOKKAIDO	0.717	1.15	1.41	0.013	±	0.0068	0.011	±	0.0060	0.016	±	0.0051	0.011	±	0.0036
Jun. 2006															
Iwamizawa, HOKKAIDO	0.732	1.09	1.52	0.018	±	0.0070	0.016	±	0.0064	0.014	±	0.0049	0.0089	±	0.0032
Higashikagura-machi, HOKKAIDO	0.759	1.15	1.57	0.030	±	0.0080	0.026	±	0.0069	0.0067	±	0.0041	0.0043	±	0.0026
Jul. 2006															
Fujisawa, KANAGAWA	0.741	1.10	1.59	0.0063	±	0.0058	0.0057	±	0.0053	0.035	±	0.0068	0.022	±	0.0043
Aug. 2006															
Aomori, AOMORI	0.743	1.09	1.66	0.022	±	0.0069	0.020	±	0.0063	0.0040	±	0.0045	0.0024	±	0.0027
Takizawa-mura, IWATE	0.727	1.02	1.54	0.0086	±	0.0056	0.0085	±	0.0055	0.040	±	0.0070	0.026	±	0.0045
Mito, IBARAKI	0.748	1.08	1.62	0.017	±	0.0065	0.015	±	0.0060	0.0031	±	0.0044	0.0019	±	0.0027
Fujimi-mura, GUNMA	0.730	1.09	1.55	0.017	±	0.0068	0.015	±	0.0062	0.011	±	0.0052	0.0068	±	0.0033
Yachimata, CHIBA	0.717	1.05	1.56	0.032	±	0.0084	0.030	±	0.0080	0.0031	±	0.0039	0.0020	±	0.0025
Hachijo-machi, TOKYO	0.644	0.992	1.13	0.013	±	0.0055	0.013	±	0.0055	0.0073	±	0.0045	0.0065	±	0.0039
Niigata, NIIGATA	0.774	1.11	1.59	0.015	±	0.0074	0.014	±	0.0066	0.0008	±	0.0040	0.0005	±	0.0025
Tonami, TOYAMA	0.725	1.06	1.50	0.015	±	0.0061	0.014	±	0.0058	0.034	±	0.0066	0.023	±	0.0044
Hodatsushimizu-machi, ISHIKAWA	0.754	1.17	1.57	0.020	±	0.0074	0.017	±	0.0064	0.0000	±	0.0037	0.0000	±	0.0023
Katsuyama, FUKUI	0.740	1.10	1.65	0.012	±	0.0066	0.011	±	0.0060	0.020	±	0.0053	0.012	±	0.0032
Hokuto, YAMANASHI	0.713	1.07	1.49	0.013	±	0.0060	0.013	±	0.0056	0.0032	±	0.0041	0.0022	±	0.0028
Shinano-machi, NAGANO	0.686	1.05	1.45	0.012	±	0.0073	0.012	±	0.0069	0.0076	±	0.0042	0.0052	±	0.0029
Kasamatsu-machi, GIFU	0.715	1.08	1.78	0.017	±	0.0077	0.015	±	0.0072	0.0012	±	0.0037	0.0007	±	0.0021
Taiki-machi, MIE	0.760	1.08	1.74	0.0092	±	0.0069	0.0085	±	0.0064	0.011	±	0.0045	0.0062	±	0.0026
Hino-machi, SHIGA	0.759	1.15	1.63	0.016	±	0.0062	0.014	±	0.0054	0.0081	±	0.0046	0.0050	±	0.0028
Sakai, OSAKA	0.725	1.07	1.55	0.019	±	0.0065	0.018	±	0.0061	0.0035	±	0.0044	0.0023	±	0.0028
Minamiawaji, HYOGO	0.726	0.980	1.72	0.0068	±	0.0056	0.0070	±	0.0057	0.0074	±	0.0047	0.0043	±	0.0027
Uda, NARA	0.676	0.987	1.47	0.016	±	0.0070	0.016	±	0.0071	0.0033	±	0.0040	0.0022	±	0.0027
Kotoura-machi, TOTTORI	0.668	0.962	1.39	0.016	±	0.0064	0.017	±	0.0066	0.017	±	0.0052	0.012	±	0.0038
Matsue, SHIMANE	0.788	1.17	1.84	0.015	±	0.0069	0.012	±	0.0058	0.0080	±	0.0044	0.0043	±	0.0024
Kitahiroshima-machi, HIROSHIMA	0.722	1.09	1.56	0.010	±	0.0057	0.0095	±	0.0053	0.0035	±	0.0045	0.0023	±	0.0029
Kamiita-machi, TOKUSHIMA	0.734	1.16	1.61	0.010	±	0.0063	0.0087	±	0.0054	0.0063	±	0.0043	0.0039	±	0.0026

Location	Ash (w/v%)	Ca (g/L)	K (g/L)	Sr-90				Cs-137			
				(Bq/L)		(Bq/g Ca)		(Bq/L)		(Bq/g K)	
Mitoyo, KAGAWA	0.716	1.08	1.53	0.027	± 0.0079	0.025	± 0.0073	0.0084	± 0.0045	0.0055	± 0.0030
Touon, EHIME	0.704	1.06	1.52	0.020	± 0.0070	0.019	± 0.0067	0.0017	± 0.0043	0.0011	± 0.0028
Kochi, KOCHI	0.755	1.02	1.56	0.027	± 0.0077	0.027	± 0.0075	0.013	± 0.0051	0.0083	± 0.0033
Chikuzen-machi, FUKUOKA	0.693	1.05	1.49	0.025	± 0.0072	0.024	± 0.0069	0.0000	± 0.0041	0.0000	± 0.0027
Saga, SAGA	0.733	1.11	1.61	0.013	± 0.0066	0.012	± 0.0059	0.0029	± 0.0047	0.0018	± 0.0029
Koshi, KUMAMOTO	0.743	1.09	1.66	0.021	± 0.0062	0.019	± 0.0057	0.0057	± 0.0044	0.0034	± 0.0027
Taketa, OITA	0.737	1.12	1.72	0.0092	± 0.0065	0.0082	± 0.0058	0.037	± 0.0066	0.022	± 0.0038
Kanoya, KAGOSHIMA	0.746	1.11	1.60	0.0086	± 0.0065	0.0078	± 0.0058	0.017	± 0.0051	0.011	± 0.0032
Sep. 2006											
Takaharu-machi, MIYAZAKI	0.741	1.08	1.54	0.019	± 0.0071	0.018	± 0.0065	0.0067	± 0.0047	0.0044	± 0.0030
Nov. 2006											
Nasushiobara, TOCHIGI	0.740	1.12	1.58	0.035	± 0.0075	0.031	± 0.0067	0.021	± 0.0057	0.013	± 0.0036
Jan. 2007											
Sasebo, NAGASAKI	0.747	1.12	1.50	0.021	± 0.0071	0.019	± 0.0063	0.0079	± 0.0048	0.0052	± 0.0032

(10)-2

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

(from Apr. 2006 to Mar. 2007)

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 2006													
Sapporo, HOKKAIDO	0.757	1.16	1.60	0.024	± 0.0075	0.021	± 0.0065	0.029	± 0.0063	0.018	± 0.0039		
Jun. 2006													
Fukushima, FUKUSHIMA	0.730	1.07	1.53	0.024	± 0.0071	0.022	± 0.0066	0.011	± 0.0050	0.0072	± 0.0033		
Jul. 2006													
Rifu-machi, MIYAGI	0.780	1.11	1.55	0.016	± 0.0065	0.015	± 0.0058	0.0067	± 0.0044	0.0043	± 0.0028		
Aug. 2006													
Akita, AKITA	0.700	1.04	1.78	0.017	± 0.0071	0.017	± 0.0068	0.031	± 0.0064	0.017	± 0.0036		
Yamagata, YAMAGATA	0.672	0.981	1.46	0.013	± 0.0065	0.014	± 0.0066	0.0008	± 0.0040	0.0005	± 0.0027		
Saitama, SAITAMA	0.737	1.08	1.61	0.011	± 0.0063	0.010	± 0.0058	0.0000	± 0.0039	0.0000	± 0.0024		
Shinjuku, TOKYO	0.652	1.01	1.40	0.013	± 0.0067	0.013	± 0.0067	0.0000	± 0.0031	0.0000	± 0.0022		
Chigasaki, KANAGAWA	0.742	1.08	1.53	0.032	± 0.0082	0.029	± 0.0076	0.0071	± 0.0048	0.0047	± 0.0031		
Niigata, NIIGATA	0.736	1.10	1.56	0.0068	± 0.0063	0.0062	± 0.0058	0.0096	± 0.0047	0.0062	± 0.0030		
Shizuoka, SHIZUOKA	0.760	1.14	1.60	0.019	± 0.0073	0.017	± 0.0064	0.027	± 0.0059	0.017	± 0.0037		
Nagoya, AICHI	0.722	1.08	1.58	0.0093	± 0.0065	0.0086	± 0.0060	0.012	± 0.0047	0.0076	± 0.0030		
Osaka, OSAKA	0.745	1.06	1.53	0.038	± 0.0083	0.036	± 0.0079	0.027	± 0.0059	0.017	± 0.0039		
Matsue, SHIMANE	0.754	1.12	1.59	0.015	± 0.0069	0.013	± 0.0062	0.0072	± 0.0044	0.0045	± 0.0027		
Okayama, OKAYAMA	0.749	1.06	1.54	0.021	± 0.0073	0.020	± 0.0069	0.014	± 0.0050	0.0094	± 0.0032		
Hiroshima, HIROSHIMA	0.713	1.04	1.48	0.024	± 0.0073	0.023	± 0.0070	0.0078	± 0.0049	0.0052	± 0.0033		
Yamaguchi, YAMAGUCHI	0.731	1.07	1.54	0.030	± 0.0079	0.028	± 0.0074	0.014	± 0.0053	0.0091	± 0.0034		
Touon, EHIME	0.703	1.05	1.50	0.018	± 0.0069	0.017	± 0.0065	0.0040	± 0.0044	0.0027	± 0.0029		
Kochi, KOCHI	0.728	1.08	1.61	0.031	± 0.0073	0.029	± 0.0068	0.020	± 0.0054	0.013	± 0.0034		
Chikushino, FUKUOKA	0.667	0.974	1.43	0.010	± 0.0065	0.011	± 0.0067	0.0020	± 0.0040	0.0014	± 0.0028		
Kagoshima, KAGOSHIMA	0.745	1.10	1.59	0.0060	± 0.0062	0.0054	± 0.0056	0.0053	± 0.0041	0.0034	± 0.0026		
Sep. 2006													
Fukui, FUKUI	0.835	1.04	1.56	0.016	± 0.0071	0.015	± 0.0068	0.018	± 0.0052	0.011	± 0.0033		
Uruma, OKINAWA	0.710	1.09	1.46	0.017	± 0.0061	0.016	± 0.0056	0.0058	± 0.0045	0.0040	± 0.0031		
Oct. 2006													
Shingu, WAKAYAMA	0.722	1.10	1.50	0.015	± 0.0058	0.013	± 0.0053	0.0000	± 0.0038	0.0000	± 0.0025		
Dec. 2006													
Kyoto, KYOTO	0.735	1.13	1.48	0.015	± 0.0061	0.014	± 0.0054	0.011	± 0.0049	0.0076	± 0.0033		

(10)-3

Strontium-90 and Cesium-137 in Milk (powdered milk)
(from Apr. 2006 to Mar. 2007)

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)			
Jun. 2006														
Sample A	7.77	11.7	16.6	0.18	± 0.021	0.016	± 0.0018	0.11	± 0.013	0.0067	± 0.00079			
Sample B	2.40	3.43	5.11	0.032	± 0.0075	0.0092	± 0.0022	0.13	± 0.011	0.026	± 0.0021			
Sample C	7.78	11.8	16.5	0.42	± 0.030	0.036	± 0.0026	0.94	± 0.036	0.057	± 0.0022			
Sample D	2.46	3.96	4.99	0.0079	± 0.0051	0.0020	± 0.0013	0.0037	± 0.0040	0.00075	± 0.00080			
Sample E	3.62	5.83	7.20	0.094	± 0.015	0.016	± 0.0026	0.079	± 0.011	0.011	± 0.0015			
Sample F	2.38	3.52	4.74	0.012	± 0.0070	0.0034	± 0.0020	0.037	± 0.0063	0.0077	± 0.0013			
Oct. 2006														
Sample A	7.79	11.8	17.2	0.16	± 0.020	0.013	± 0.0017	0.10	± 0.013	0.0060	± 0.00078			
Sample B	2.45	3.50	5.44	0.064	± 0.011	0.018	± 0.0030	0.41	± 0.020	0.075	± 0.0036			
Sample C	7.87	12.2	17.3	0.37	± 0.029	0.030	± 0.0024	1.2	± 0.04	0.072	± 0.0025			
Sample D	2.44	4.22	4.88	0.0000	± 0.0048	0.0000	± 0.0011	0.0074	± 0.0042	0.0015	± 0.00085			
Sample E	3.61	6.03	7.36	0.092	± 0.015	0.015	± 0.0024	0.092	± 0.010	0.012	± 0.0014			
Sample F	2.44	3.54	5.12	0.019	± 0.0072	0.0055	± 0.0020	0.039	± 0.0070	0.0077	± 0.0014			

(11)-1

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

(from Apr. 2006 to Mar. 2007)

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)					
(Leafy vegetables)															
May 2006															
Tahara, AICHI	1.47	0.244	6.37	0.0065	±	0.0067	0.027	±	0.028	0.0000	±	0.0037	0.00000	±	0.00058
Koshi, KUMAMOTO	1.71	0.390	7.78	0.066	±	0.011	0.17	±	0.029	0.0056	±	0.0039	0.00072	±	0.00050
Jun. 2006															
Niigata, NIIGATA	2.24	0.564	5.76	0.051	±	0.010	0.090	±	0.018	0.0000	±	0.0035	0.00000	±	0.00060
Uruma, OKINAWA	0.467	0.433	1.26	0.017	±	0.0075	0.040	±	0.017	0.0000	±	0.0031	0.0000	±	0.0025
Jul. 2006															
Oda, SHIMANE	1.14	1.00	3.72	0.53	±	0.028	0.53	±	0.028	0.56	±	0.021	0.15	±	0.006
Aug. 2006															
Eniwa, HOKKAIDO	1.75	0.371	7.05	0.017	±	0.0071	0.045	±	0.019	0.0064	±	0.0042	0.00090	±	0.00059
Sep. 2006															
Gosyogawara, AOMORI	0.523	0.458	1.82	0.061	±	0.013	0.13	±	0.028	0.0004	±	0.0037	0.0002	±	0.0021
Oct. 2006															
Oirase-machi, AOMORI	0.543	0.462	1.79	0.059	±	0.012	0.13	±	0.026	0.0000	±	0.0037	0.0000	±	0.0021
Morioka, IWATE	0.683	0.463	2.39	0.072	±	0.011	0.16	±	0.024	0.0027	±	0.0037	0.0011	±	0.0015
Akita, AKITA	0.538	0.499	1.82	0.056	±	0.011	0.11	±	0.021	0.0035	±	0.0038	0.0019	±	0.0021
Nov. 2006															
Fukushima, FUKUSHIMA	2.11	0.840	8.19	0.093	±	0.012	0.11	±	0.014	0.011	±	0.0046	0.0014	±	0.00057
Utsunomiya, TOCHIGI	0.509	0.519	1.59	0.22	±	0.019	0.41	±	0.037	0.12	±	0.011	0.078	±	0.0069
Chiba, CHIBA	1.65	1.20	6.09	0.028	±	0.0085	0.023	±	0.0071	0.0000	±	0.0039	0.00000	±	0.00064
Toyama, TOYAMA	1.54	0.841	6.08	0.031	±	0.0079	0.036	±	0.0094	0.0004	±	0.0037	0.00006	±	0.00061
Fukui, FUKUI	2.01	1.15	5.87	0.10	±	0.013	0.087	±	0.011	0.027	±	0.0055	0.0047	±	0.00093
Saku, NAGANO	1.61	0.662	5.60	0.056	±	0.012	0.084	±	0.017	0.0033	±	0.0037	0.00059	±	0.00066
Kakamigahara, GIFU	1.86	0.841	7.01	0.020	±	0.0068	0.023	±	0.0081	0.030	±	0.0061	0.0043	±	0.00088
Gotenba, SHIZUOKA	1.79	0.746	8.13	0.026	±	0.0075	0.034	±	0.010	0.059	±	0.0080	0.0072	±	0.00098
Yokkaichi, MIE	1.58	0.934	5.97	0.042	±	0.0092	0.045	±	0.0099	0.0012	±	0.0037	0.00021	±	0.00062
Kasai, HYOGO	1.94	0.448	8.01	0.12	±	0.015	0.27	±	0.034	0.0046	±	0.0044	0.00057	±	0.00055
Yurihama-machi, TOTTORI	1.60	0.240	6.40	0.011	±	0.0076	0.044	±	0.032	0.0000	±	0.0040	0.00000	±	0.00062
Hiroshima, HIROSHIMA	1.61	0.501	6.50	0.011	±	0.0077	0.021	±	0.015	0.013	±	0.0051	0.0019	±	0.00079

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)	
Takamatsu, KAGAWA	2.03	1.35	7.35	0.018	± 0.0070	0.014	± 0.0052	0.0004	± 0.0035	0.00006	± 0.00048	
Matsuyama, EHIME	1.98	0.321	8.26	0.030	± 0.0097	0.092	± 0.030	0.0000	± 0.0039	0.00000	± 0.00047	
Shimanto, KOCHI	1.75	0.513	6.63	0.085	± 0.012	0.17	± 0.022	0.033	± 0.0063	0.0050	± 0.00095	
Shime-machi, FUKUOKA	1.43	0.696	4.48	0.11	± 0.013	0.16	± 0.019	0.032	± 0.0061	0.0072	± 0.0014	
Dec. 2006												
Mito, IBARAKI	1.86	1.14	5.78	0.060	± 0.010	0.052	± 0.0092	0.028	± 0.0060	0.0049	± 0.0010	
Maebashi, GUNMA	1.63	0.654	6.26	0.024	± 0.0084	0.037	± 0.013	0.0000	± 0.0046	0.00000	± 0.00074	
Hokuto, YAMANASHI	1.59	0.639	5.06	0.14	± 0.014	0.21	± 0.022	0.0043	± 0.0043	0.00085	± 0.00084	
Azuchi-machi, SHIGA	2.06	0.540	7.56	0.069	± 0.011	0.13	± 0.020	0.0064	± 0.0042	0.00085	± 0.00055	
Uda, NARA	1.60	0.272	6.70	0.015	± 0.0074	0.055	± 0.027	0.0004	± 0.0032	0.00006	± 0.00048	
Nagato, YAMAGUCHI	1.82	0.648	7.86	0.13	± 0.014	0.20	± 0.022	0.0087	± 0.0043	0.0011	± 0.00055	
Saga, SAGA	1.39	0.407	5.60	0.016	± 0.0071	0.040	± 0.017	0.0000	± 0.0035	0.00000	± 0.00062	
Usa, OITA	1.57	0.301	6.01	0.028	± 0.0083	0.094	± 0.028	0.0033	± 0.0040	0.00055	± 0.00066	
Takanabe-machi, MIYAZAKI	2.10	0.431	7.22	0.037	± 0.0095	0.085	± 0.022	0.0023	± 0.0040	0.00032	± 0.00056	
Kagoshima, KAGOSHIMA	1.57	0.644	4.33	0.023	± 0.0072	0.037	± 0.011	0.033	± 0.0061	0.0075	± 0.0014	
Jan. 2007												
Yokosuka, KANAGAWA	1.75	0.572	4.64	0.020	± 0.0081	0.036	± 0.014	0.0028	± 0.0041	0.00060	± 0.00089	
Kumatori-machi, OSAKA	0.667	0.325	2.49	0.023	± 0.0070	0.070	± 0.022	0.019	± 0.0053	0.0076	± 0.0021	
Shingu, WAKAYAMA	0.664	0.370	2.38	0.021	± 0.0075	0.057	± 0.020	0.014	± 0.0051	0.0058	± 0.0021	
Ishii-machi, TOKUSHIMA	1.52	0.378	5.47	0.013	± 0.0069	0.035	± 0.018	0.0000	± 0.0040	0.00000	± 0.00073	
Sasebo, NAGASAKI	2.13	0.607	7.71	0.036	± 0.0093	0.059	± 0.015	0.0072	± 0.0046	0.00093	± 0.00060	
(Root vegetables)												
May 2006												
Tahara, AICHI	0.723	0.155	2.71	0.0093	± 0.0070	0.060	± 0.045	0.0000	± 0.0034	0.0000	± 0.0013	
Uruma, OKINAWA	0.804	0.285	2.22	0.059	± 0.011	0.21	± 0.037	0.0015	± 0.0038	0.0007	± 0.0017	
Jun. 2006												
Koshi, KUMAMOTO	0.711	0.201	2.55	0.056	± 0.011	0.28	± 0.055	0.0062	± 0.0039	0.0024	± 0.0015	
Jul. 2006												
Kumatori-machi, OSAKA	0.379	0.102	1.53	0.0022	± 0.0064	0.022	± 0.063	0.0000	± 0.0031	0.0000	± 0.0020	
Oda, SHIMANE	0.666	0.184	2.47	0.16	± 0.017	0.86	± 0.090	0.21	± 0.013	0.087	± 0.0054	
Aug. 2006												
Eniwa, HOKKAIDO	0.589	0.142	2.23	0.11	± 0.014	0.79	± 0.097	0.035	± 0.0062	0.016	± 0.0028	
Sep. 2006												
Gosyogawara, AOMORI	0.940	0.0457	4.01	0.031	± 0.011	0.68	± 0.25	0.013	± 0.0049	0.0034	± 0.0012	

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. 2006													
Oirase-machi, AOMORI	0.494	0.160	2.07	0.056	± 0.012	0.35	± 0.074	0.0084	± 0.0040	0.0041	± 0.0019		
Morioka, IWATE	0.560	0.255	2.39	0.071	± 0.011	0.28	± 0.045	0.0068	± 0.0042	0.0028	± 0.0017		
Akita, AKITA	0.655	0.305	2.29	0.049	± 0.010	0.16	± 0.033	0.0052	± 0.0040	0.0023	± 0.0018		
Utsunomiya, TOCHIGI	0.508	0.220	1.86	0.16	± 0.017	0.74	± 0.077	0.019	± 0.0061	0.010	± 0.0033		
Nov. 2006													
Fukushima, FUKUSHIMA	0.533	0.174	2.21	0.060	± 0.013	0.35	± 0.073	0.0000	± 0.0033	0.0000	± 0.0015		
Chiba, CHIBA	0.511	0.260	2.08	0.14	± 0.016	0.54	± 0.060	0.0000	± 0.0036	0.0000	± 0.0017		
Niigata, NIIGATA	0.483	0.220	1.92	0.0088	± 0.0059	0.040	± 0.027	0.0069	± 0.0042	0.0036	± 0.0022		
Imizu, TOYAMA	0.359	0.128	1.30	0.011	± 0.0062	0.085	± 0.049	0.0056	± 0.0042	0.0043	± 0.0032		
Fukui, FUKUI	0.628	0.144	2.69	0.032	± 0.0092	0.22	± 0.064	0.0023	± 0.0029	0.0009	± 0.0011		
Saku, NAGANO	0.587	0.313	2.27	0.050	± 0.011	0.16	± 0.036	0.0062	± 0.0038	0.0027	± 0.0017		
Kakamigahara, GIFU	0.583	0.196	2.25	0.020	± 0.0076	0.10	± 0.039	0.0000	± 0.0042	0.0000	± 0.0019		
Gotenba, SHIZUOKA	0.611	0.213	2.36	0.044	± 0.0099	0.21	± 0.047	0.12	± 0.010	0.049	± 0.0042		
Hamamatsu, SHIZUOKA	0.563	0.176	2.35	0.0063	± 0.0065	0.036	± 0.037	0.0024	± 0.0029	0.0010	± 0.0012		
Meiwa-machi, MIE	0.596	0.173	2.43	0.071	± 0.012	0.41	± 0.067	0.011	± 0.0045	0.0047	± 0.0019		
Takashima, SHIGA	0.541	0.144	2.16	0.074	± 0.013	0.51	± 0.087	0.0000	± 0.0038	0.0000	± 0.0017		
Kasai, HYOGO	0.737	0.129	2.05	0.036	± 0.010	0.28	± 0.078	0.0004	± 0.0037	0.0002	± 0.0018		
Hiroshima, HIROSHIMA	0.598	0.220	2.55	0.043	± 0.010	0.20	± 0.046	0.0016	± 0.0039	0.0006	± 0.0015		
Takamatsu, KAGAWA	0.594	0.269	2.11	0.024	± 0.0078	0.087	± 0.029	0.0081	± 0.0041	0.0038	± 0.0019		
Shimanto, KOCHI	0.599	0.182	2.26	0.045	± 0.0093	0.25	± 0.051	0.0087	± 0.0045	0.0038	± 0.0020		
Shime-machi, FUKUOKA	0.483	0.185	1.99	0.057	± 0.010	0.31	± 0.054	0.0077	± 0.0040	0.0039	± 0.0020		
Dec. 2006													
Mito, IBARAKI	0.560	0.264	2.28	0.041	± 0.0093	0.16	± 0.035	0.0058	± 0.0042	0.0025	± 0.0018		
Maebashi, GUNMA	0.597	0.242	2.42	0.036	± 0.0092	0.15	± 0.038	0.0000	± 0.0043	0.0000	± 0.0018		
Hokuto, YAMANASHI	0.523	0.232	2.13	0.064	± 0.011	0.27	± 0.046	0.0000	± 0.0035	0.0000	± 0.0016		
Uda, NARA	0.433	0.335	1.47	0.013	± 0.0067	0.038	± 0.020	0.0080	± 0.0038	0.0054	± 0.0026		
Tottori, TOTTORI	0.510	0.207	2.02	0.098	± 0.013	0.47	± 0.064	0.0000	± 0.0045	0.0000	± 0.0022		
Nagato, YAMAGUCHI	0.628	0.206	2.52	0.052	± 0.0098	0.25	± 0.048	0.0012	± 0.0034	0.0005	± 0.0013		
Saga, SAGA	0.495	0.182	1.94	0.038	± 0.0091	0.21	± 0.050	0.0008	± 0.0038	0.0004	± 0.0020		
Usa, OITA	0.699	0.215	2.52	0.042	± 0.0093	0.19	± 0.043	0.0000	± 0.0034	0.0000	± 0.0013		
Takanabe-machi, MIYAZAKI	0.649	0.176	2.43	0.070	± 0.011	0.40	± 0.065	0.0019	± 0.0038	0.0008	± 0.0016		
Ibusuki, KAGOSHIMA	0.699	0.234	2.52	0.021	± 0.0068	0.091	± 0.029	0.016	± 0.0049	0.0065	± 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)		
Jan. 2007													
Yokosuka, KANAGAWA	0.574	0.266	1.99	0.043 ± 0.0094	0.16 ± 0.036	0.0019 ± 0.0039	0.0010 ± 0.0019						
Shingu, WAKAYAMA	0.673	0.192	2.42	0.0000 ± 0.0048	0.000 ± 0.025	0.0000 ± 0.0036	0.0000 ± 0.0015						
Ishii-machi, TOKUSHIMA	0.480	0.177	2.12	0.0035 ± 0.0059	0.020 ± 0.033	0.0019 ± 0.0032	0.0009 ± 0.0015						
Sasebo, NAGASAKI	0.713	0.473	2.65	0.13 ± 0.014	0.27 ± 0.031	0.0023 ± 0.0040	0.0009 ± 0.0015						

(11)-2

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

(from Apr. 2006 to Mar. 2007)

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. 2006													
Rifu-machi, MIYAGI	2.04	0.596	7.30	0.016	± 0.0067	0.027	± 0.011	0.0000	± 0.0035	0.00000	± 0.00048		
Aug. 2006													
Saitama, SAITAMA	2.11	0.574	9.47	0.026	± 0.0079	0.045	± 0.014	0.0071	± 0.0044	0.00075	± 0.00046		
Oct. 2006													
Yamagata, YAMAGATA	1.70	0.479	6.58	0.035	± 0.0092	0.072	± 0.019	0.0046	± 0.0041	0.00070	± 0.00063		
Kanazawa, ISHIKAWA	2.55	0.645	10.6	0.097	± 0.014	0.15	± 0.021	0.0041	± 0.0043	0.00038	± 0.00041		
Nov. 2006													
Shinjuku, TOKYO	1.56	1.04	3.85	0.24	± 0.018	0.23	± 0.017	0.014	± 0.0049	0.0036	± 0.0013		
Osaka, OSAKA	1.68	0.519	7.14	0.014	± 0.0073	0.026	± 0.014	0.0000	± 0.0041	0.00000	± 0.00057		
Okayama, OKAYAMA	1.83	0.553	6.11	0.043	± 0.0099	0.077	± 0.018	0.024	± 0.0065	0.0040	± 0.0011		
Matsuyama, EHIME	2.13	0.456	8.95	0.014	± 0.0078	0.030	± 0.017	0.0000	± 0.0039	0.00000	± 0.00043		
Dec. 2006													
Kyoto, KYOTO	1.77	1.09	5.40	0.063	± 0.0099	0.058	± 0.0091	0.0055	± 0.0041	0.0010	± 0.00075		
<u>(Root vegetables)</u>													
Aug. 2006													
Saitama, SAITAMA	0.700	0.190	2.78	0.028	± 0.0081	0.15	± 0.043	0.012	± 0.0046	0.0042	± 0.0017		
Sep. 2006													
Rifu-machi, MIYAGI	0.703	0.242	3.02	0.023	± 0.0077	0.094	± 0.032	0.0015	± 0.0036	0.0005	± 0.0012		
Oct. 2006													
Yamagata, YAMAGATA	0.407	0.214	1.49	0.19	± 0.018	0.88	± 0.084	0.065	± 0.0078	0.044	± 0.0052		
Kanazawa, ISHIKAWA	0.694	0.115	2.52	0.015	± 0.0075	0.13	± 0.065	0.0000	± 0.0034	0.0000	± 0.0013		
Nov. 2006													
Shinjuku, TOKYO	0.458	0.274	1.69	0.095	± 0.012	0.35	± 0.044	0.0025	± 0.0036	0.0015	± 0.0021		
Osaka, OSAKA	0.713	0.208	2.94	0.065	± 0.013	0.31	± 0.063	0.0000	± 0.0034	0.0000	± 0.0011		
Okayama, OKAYAMA	0.498	0.174	1.87	0.028	± 0.0091	0.16	± 0.052	0.0000	± 0.0040	0.0000	± 0.0021		
Dec. 2006													
Kyoto, KYOTO	0.555	0.205	2.15	0.36	± 0.023	1.8	± 0.11	0.014	± 0.0050	0.0066	± 0.0023		

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

(from Apr. 2006 to Mar. 2007)

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)				
May 2006														
Shirakawa-machi, GIFU	5.15	2.04	16.4	0.23	± 0.040	0.11	± 0.020	0.075	± 0.020	0.0045	± 0.0012			
Ikeda-machi, GIFU	5.10	2.25	18.3	0.23	± 0.040	0.10	± 0.018	0.072	± 0.019	0.0039	± 0.0010			
Iwata, SHIZUOKA*	1.47	0.662	4.70	0.0081	± 0.0068	0.012	± 0.010	0.016	± 0.0052	0.0034	± 0.0011			
Izu, SHIZUOKA*	1.34	0.772	4.21	0.59	± 0.030	0.77	± 0.039	0.067	± 0.0079	0.016	± 0.0019			
Kameyama, MIE	5.18	2.39	15.9	0.33	± 0.047	0.14	± 0.020	0.10	± 0.021	0.0063	± 0.0013			
Odai-machi, MIE	5.18	1.57	16.7	0.061	± 0.031	0.039	± 0.019	0.11	± 0.021	0.0063	± 0.0013			
Uji, KYOTO	5.69	2.69	18.5	0.51	± 0.052	0.19	± 0.020	0.005	± 0.017	0.00026	± 0.00091			
Wazuka, KYOTO	5.94	2.13	19.2	0.26	± 0.041	0.12	± 0.019	0.063	± 0.022	0.0033	± 0.0011			
Nara, NARA	4.70	2.20	16.0	0.24	± 0.035	0.11	± 0.016	0.23	± 0.027	0.015	± 0.0017			
Mifune-machi, KUMAMOTO	5.28	2.42	16.7	0.13	± 0.030	0.055	± 0.012	0.009	± 0.015	0.00055	± 0.00090			
Asagiri-machi, KUMAMOTO	5.38	2.36	18.9	0.19	± 0.035	0.080	± 0.015	0.20	± 0.028	0.010	± 0.0015			
Miyakonojo, MIYAZAKI	5.42	2.11	19.0	0.18	± 0.036	0.083	± 0.017	1.0	± 0.06	0.055	± 0.0031			
Kawaminami-machi, MIYAZAKI	5.44	2.22	17.5	0.18	± 0.035	0.081	± 0.016	0.39	± 0.037	0.022	± 0.0021			
Chiran-machi, KAGOSHIMA	5.34	2.60	17.2	0.25	± 0.042	0.097	± 0.016	1.0	± 0.06	0.060	± 0.0034			
Jun. 2006														
Iruma, SAITAMA	5.02	1.76	16.8	0.16	± 0.033	0.088	± 0.019	0.22	± 0.028	0.013	± 0.0017			
Tokorozawa, SAITAMA	5.18	2.21	17.0	0.25	± 0.041	0.11	± 0.018	0.096	± 0.022	0.0056	± 0.0013			
Nara, NARA	5.32	2.56	17.8	0.25	± 0.039	0.098	± 0.015	0.062	± 0.020	0.0035	± 0.0011			
Nachikatsuura-machi, WAKAYAMA	5.84	2.67	18.0	1.3	± 0.09	0.49	± 0.034	0.35	± 0.036	0.019	± 0.0020			
Satsuma-machi, KAGOSHIMA	6.09	2.52	23.8	0.40	± 0.056	0.16	± 0.022	0.62	± 0.050	0.026	± 0.0021			

* g/kg wet : Ca, K

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

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

(from Apr. 2006 to Mar. 2007)

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. 2006												
Kobe, HYOGO	2.07	2.15	3.39	0.0028 ±	0.0065	0.0013 ±	0.0030	0.040 ±	0.0069	0.012 ±	0.0020	
<u>(Branchiostegus sp.)</u>												
Nov. 2006												
Nagasaki, NAGASAKI	1.16	0.341	3.33	0.0014 ±	0.0053	0.004 ±	0.016	0.056 ±	0.0074	0.017 ±	0.0022	
<u>(Decapterus muroadsi)</u>												
Oct. 2006												
Hachijo-machi, TOKYO	1.66	2.12	3.42	0.0051 ±	0.0064	0.0024 ±	0.0030	0.093 ±	0.0095	0.027 ±	0.0028	
<u>(Gadus macrocephalus)</u>												
Jan. 2007												
Kushiro, HOKKAIDO	1.31	0.469	3.62	0.0046 ±	0.0048	0.010 ±	0.010	0.13 ±	0.011	0.036 ±	0.0029	
<u>(Hexagrammos otakii)</u>												
Sep. 2006												
Soma, FUKUSHIMA	1.51	0.782	3.87	0.0050 ±	0.0057	0.0064 ±	0.0073	0.15 ±	0.012	0.039 ±	0.0032	
<u>(Katsuwonus pelamis)</u>												
May 2006												
Kuroshio-machi, KOCHI	1.27	0.115	4.00	0.0000 ±	0.0057	0.000 ±	0.050	0.16 ±	0.012	0.041 ±	0.0030	
Mar. 2007												
Minamiboso, CHIBA	1.89	0.146	3.87	0.0000 ±	0.0053	0.000 ±	0.037	0.21 ±	0.014	0.055 ±	0.0036	
<u>(Mugil cephalus cephalus)</u>												
Sep. 2006												
Saga, SAGA	1.38	0.777	3.49	0.0080 ±	0.0069	0.010 ±	0.0089	0.055 ±	0.0077	0.016 ±	0.0022	
Nov. 2006												
Setouchi, OKAYAMA	1.40	0.344	4.20	0.014 ±	0.0064	0.041 ±	0.019	0.066 ±	0.0081	0.016 ±	0.0019	
<u>(Oncorhynchus keta)</u>												
Sep. 2006												
Urakawa-machi, HOKKAIDO	1.43	0.758	3.93	0.0059 ±	0.0054	0.0078 ±	0.0072	0.056 ±	0.0078	0.014 ±	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. 2006												
Rifu-machi, MIYAGI	3.67	8.73	2.76	0.0058 ±	0.0060	0.00067 ±	0.00069	0.063 ±	0.0089	0.023 ±	0.0032	
Nov. 2006												
Murakami, NIIGATA	1.30	0.523	3.37	0.0074 ±	0.0053	0.014 ±	0.010	0.10 ±	0.010	0.030 ±	0.0028	
Fukui, FUKUI	1.22	0.615	3.17	0.0014 ±	0.0054	0.0023 ±	0.0088	0.11 ±	0.010	0.035 ±	0.0031	
Takamatsu, KAGAWA	2.66	5.29	6.52	0.0066 ±	0.0056	0.0012 ±	0.0011	0.038 ±	0.0064	0.0059 ±	0.00099	
Jan. 2007												
Hiranai-machi, AOMORI	1.39	0.673	3.86	0.010 ±	0.0057	0.015 ±	0.0085	0.086 ±	0.0089	0.022 ±	0.0023	
Feb. 2007												
Otake, HIROSHIMA	1.66	2.32	3.32	0.0034 ±	0.0047	0.0014 ±	0.0020	0.060 ±	0.0079	0.018 ±	0.0024	
<u>(Pterocaesio diagramma)</u>												
Oct. 2006												
Uruma, OKINAWA	4.29	10.4	4.14	0.020 ±	0.0061	0.0019 ±	0.00059	0.10 ±	0.010	0.025 ±	0.0025	
<u>(Sardinops sp.)</u>												
Aug. 2006												
Yamagata, YAMAGATA	2.59	5.75	2.57	0.0044 ±	0.0064	0.0008 ±	0.0011	0.042 ±	0.0075	0.016 ±	0.0029	
Nov. 2006												
Nagano, NAGANO	3.19	6.12	2.07	0.012 ±	0.0053	0.0019 ±	0.00087	0.026 ±	0.0062	0.013 ±	0.0030	
<u>(Scomber sp.)</u>												
Aug. 2006												
Iyonada, EHIME	1.10	0.436	3.44	0.0020 ±	0.0051	0.005 ±	0.012	0.069 ±	0.0086	0.020 ±	0.0025	
Nov. 2006												
Kyoto, KYOTO	1.17	0.166	2.29	0.0027 ±	0.0047	0.016 ±	0.028	0.072 ±	0.0084	0.032 ±	0.0036	
Osaka, OSAKA	1.10	0.0952	2.37	0.010 ±	0.0056	0.11 ±	0.059	0.069 ±	0.0082	0.029 ±	0.0035	
Jan. 2007												
Sakaiminato, TOTTORI	1.33	0.343	3.27	0.0000 ±	0.0053	0.000 ±	0.015	0.082 ±	0.0086	0.025 ±	0.0026	
<u>(Sebastes inermis)</u>												
Feb. 2007												
Yamaguchi-bay, YAMAGUCHI	4.53	12.5	3.05	0.0083 ±	0.0051	0.00066 ±	0.00041	0.082 ±	0.0091	0.027 ±	0.0030	
<u>(Sebastes marmoratus)</u>												
Jun. 2006												
Hamada, SHIMANE	5.94	18.0	2.95	0.031 ±	0.011	0.0017 ±	0.00061	0.058 ±	0.0094	0.020 ±	0.0032	

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>(Seriola quinqueradiata)</u>												
Oct. 2006												
Wajima, ISHIKAWA	1.53	0.638	4.39	0.0008 ±	0.0062	0.0012 ±	0.0097	0.12 ±	0.010	0.026 ±	0.0024	
<u>(Sillago sp.)</u>												
Jun. 2006												
Minamichita-machi, AICHI	4.64	8.26	3.96	0.016 ±	0.0070	0.0019 ±	0.00084	0.045 ±	0.0070	0.011 ±	0.0018	
<u>(Sparidae)</u>												
May 2006												
Kihoku-machi, MIE	1.47	0.250	4.76	0.0000 ±	0.0063	0.000 ±	0.025	0.12 ±	0.010	0.025 ±	0.0021	
Jul. 2006												
Fukuoka, FUKUOKA	1.42	0.599	4.22	0.0045 ±	0.0066	0.007 ±	0.011	0.089 ±	0.0096	0.021 ±	0.0023	
<u>(Spratelloides gracilis)</u>												
Nov. 2006												
Akune, KAGOSHIMA	2.86	5.83	3.37	0.0086 ±	0.0053	0.0015 ±	0.00091	0.099 ±	0.0098	0.029 ±	0.0029	
<u>(Trachurus japonicus)</u>												
Jan. 2007												
Odawara, KANAGAWA	1.37	0.152	4.22	0.0094 ±	0.0056	0.062 ±	0.037	0.16 ±	0.012	0.037 ±	0.0028	
<u>(Trachurus sp.)</u>												
Apr. 2006												
Shingu, WAKAYAMA	2.28	0.948	4.38	0.0000 ±	0.0050	0.0000 ±	0.0053	0.19 ±	0.014	0.044 ±	0.0031	
Nov. 2006												
Shizuoka, SHIZUOKA	3.06	6.76	2.44	0.0061 ±	0.0074	0.0009 ±	0.0011	0.097 ±	0.010	0.040 ±	0.0042	

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

(from Apr. 2006 to Mar. 2007)

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)				
<u>(Carassius sp.)</u>														
Jul. 2006														
Ishikari, HOKKAIDO	5.06	15.4	3.09	0.60	± 0.029	0.039	± 0.0019	0.037	± 0.0070	0.012	± 0.0023			
Nov. 2006														
Niigata, NIIGATA	1.18	0.506	3.28	0.047	± 0.0099	0.092	± 0.019	0.10	± 0.0094	0.030	± 0.0029			
Dec. 2006														
Wakasa-machi, FUKUI	1.06	0.336	3.08	0.021	± 0.0082	0.061	± 0.024	0.11	± 0.010	0.036	± 0.0032			
Uji, KYOTO	4.13	11.5	2.59	0.40	± 0.023	0.035	± 0.0020	0.021	± 0.0058	0.0080	± 0.0022			
<u>(Cyprinus carpio)</u>														
Oct. 2006														
Syobara, HIROSHIMA	0.971	0.306	2.92	0.027	± 0.0080	0.088	± 0.026	0.069	± 0.0086	0.024	± 0.0029			
<u>(Hypomesus nipponensis)</u>														
Nov. 2006														
Suwa-lake, NAGANO	2.81	4.95	2.50	0.067	± 0.011	0.013	± 0.0022	0.097	± 0.0096	0.039	± 0.0038			
<u>(Ictalurus punctatus)</u>														
Jun. 2006														
Kasumigaura-lake, IBARAKI	1.37	0.0955	3.96	0.012	± 0.0066	0.13	± 0.069	0.67	± 0.024	0.17	± 0.006			
<u>(Salmo gairdneri)</u>														
Oct. 2006														
Kumagaya, SAITAMA	1.23	0.160	3.86	0.010	± 0.0062	0.064	± 0.039	0.082	± 0.0089	0.021	± 0.0023			
<u>(Salvelinus leucomaenis)</u>														
Sep. 2006														
Fukushima, FUKUSHIMA	1.27	0.552	3.62	0.0000	± 0.0044	0.0000	± 0.0080	0.092	± 0.0096	0.026	± 0.0027			

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

(from Apr. 2006 to Mar. 2007)

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. 2007													
Hatsukaichi, HIROSHIMA	1.54	0.362	2.39	0.011	± 0.0091	0.030	± 0.025	0.0043	± 0.0065	0.0018	± 0.0027		
<u>(Mytilus edulis)</u>													
May 2006													
Fukaura-machi, AOMORI	2.54	0.711	0.874	0.0000	± 0.0065	0.0000	± 0.0091	0.0037	± 0.0046	0.0042	± 0.0052		
<u>(Patinopecten yessoensis)</u>													
Aug. 2006													
Sarufutsu-mura, HOKKAIDO	1.97	0.166	2.70	0.0000	± 0.0058	0.000	± 0.035	0.017	± 0.0055	0.0063	± 0.0020		
Jan. 2007													
Hiranai-machi, AOMORI	1.92	0.183	2.86	0.0044	± 0.0054	0.024	± 0.030	0.019	± 0.0055	0.0067	± 0.0019		
Yamada-machi, IWATE	2.20	0.394	2.15	0.012	± 0.0063	0.030	± 0.016	0.015	± 0.0050	0.0068	± 0.0023		
<u>(Tapes philippinarum)</u>													
Apr. 2006													
Ise, MIE	2.10	0.961	2.44	0.0000	± 0.0068	0.0000	± 0.0070	0.025	± 0.0061	0.010	± 0.0025		
May 2006													
Isahaya, NAGASAKI	1.73	0.920	1.67	0.013	± 0.0068	0.014	± 0.0074	0.016	± 0.0052	0.0098	± 0.0031		
Jun. 2006													
Minamichita-machi, AICHI	2.04	1.08	3.47	0.0035	± 0.0092	0.0032	± 0.0085	0.026	± 0.0078	0.0074	± 0.0022		
<u>(Turbo (Batillus) cornutus)</u>													
Apr. 2006													
Sado, NIIGATA	2.29	0.563	2.82	0.000	± 0.024	0.000	± 0.043	0.000	± 0.013	0.0000	± 0.0046		
Jun. 2006													
Sakata, YAMAGATA	1.72	0.463	1.50	0.0073	± 0.0067	0.016	± 0.014	0.015	± 0.0049	0.0098	± 0.0033		
Wajima, ISHIKAWA	2.73	0.999	2.37	0.0000	± 0.0063	0.0000	± 0.0063	0.015	± 0.0049	0.0064	± 0.0021		

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

(from Apr. 2006 to Mar. 2007)

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	5.01	1.32	15.8	0.018	± 0.0080	0.014	± 0.0060	0.054	± 0.0075	0.0034	± 0.00048		
Aug. 2006													
Hirono-machi, IWATE	4.19	1.25	12.1	0.0081	± 0.0068	0.0065	± 0.0054	0.058	± 0.0077	0.0048	± 0.00064		
<u>(Pseudocardium sachalinense)</u>													
Tomakomai, HOKKAIDO	1.68	0.307	2.37	0.013	± 0.0077	0.043	± 0.025	0.023	± 0.0058	0.0097	± 0.0024		
<u>(Sargassum horneri)</u>													
Feb. 2007													
Oga, AKITA	0.639	0.856	0.234	0.065	± 0.012	0.076	± 0.014	0.0008	± 0.0035	0.003	± 0.015		
<u>(Undaria pinnatifida)</u>													
Apr. 2006													
Wajima, ISHIKAWA	2.10	0.489	4.24	0.022	± 0.0083	0.045	± 0.017	0.013	± 0.0046	0.0030	± 0.0011		
May 2006													
Fukaura-machi, AOMORI	2.66	1.10	5.43	0.039	± 0.0093	0.035	± 0.0084	0.018	± 0.0055	0.0034	± 0.0010		
Imabetsu-machi, AOMORI	2.36	0.894	4.41	0.017	± 0.0076	0.020	± 0.0085	0.0091	± 0.0049	0.0021	± 0.0011		
Sado, NIIGATA	2.56	0.827	4.58	0.024	± 0.0079	0.029	± 0.0095	0.018	± 0.0050	0.0039	± 0.0011		
Jun. 2006													
Sakata, YAMAGATA	3.26	1.22	5.93	0.015	± 0.0071	0.013	± 0.0058	0.021	± 0.0053	0.0036	± 0.00089		
Feb. 2007													
Minamichita-machi, AICHI	2.50	0.675	7.30	0.011	± 0.0068	0.016	± 0.010	0.013	± 0.0044	0.0018	± 0.00060		
Toba, MIE	2.62	0.694	6.71	0.025	± 0.0074	0.036	± 0.011	0.018	± 0.0048	0.0027	± 0.00072		
Hiroshima, HIROSHIMA	1.09	0.559	3.06	0.035	± 0.0076	0.063	± 0.014	0.011	± 0.0049	0.0037	± 0.0016		
Mar. 2007													
Shimabara, NAGASAKI	2.34	0.758	4.66	0.0064	± 0.0064	0.0084	± 0.0084	0.013	± 0.0045	0.0029	± 0.00096		