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RADIOACTIVITY SURVEY DATA in Japan

= Environmental and Dietary Materials =

NUMBER 140

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Chiba, Japan

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Contents

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Environmental and Dietary Materials

1. Sampling and retrieval

(1) Rain and dry fallout

The collector, which was stainless steel tray, 5000 cm^2 in area, was placed outside on the first of the month and left there for one month. At the beginning of the month, 1 cm depth of water in the tray was kept.

At the end of the month, the water in the tray was transferred to a certain 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 m^3 per month for three month sampling periods. The filter holder with the filter is mounted on a 1 to 1.5 m stand.

(3) Service water and fresh water

100 L of the water (service water, tap water or fresh water) was collected at the water-treatment plant prior to discharge into the distribution system and at the tap 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

The area selected for sampling was spacious and flat, and then undisturbed for at least the time interval that was of interest. Soil cores were taken to a depth of 5 cm (surface soil) and 5 – 20 cm. The samples were dried at 105 – 110 ℃ and then passed through 2 mm sieve after removal of pebbles and plant roots.

(5) Seawater

Seawater was collected at the fixed station using a polyethylene bucket. The seawater was put into 20 L polyethylene containers and was acidified by adding concentrated HCl. Two hundred ml of seawater was also collected at the same station for the determination of chlorinity.

(6) Sediment

Sediment was collected at the same station of seawater collected using a conventional sediment sampler. The sampling station was selected taking the following criteria into account.

a. The depth of water exceeds 1 m at low tide.
b. Any significant sediment movement is not found in the vicinity of the sampling station.

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 ℃.

(7) Total diet

Total diet is meaning whole dietary food for five people in a day. The sample was dried at 105 ℃ and was reduced to ashes at 450 ℃.

(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 in a stainless or porcelain dish was evaporated to dryness and reduced to ashes at 450 ℃.

(10) Vegetables

Spinach and Japanese radish were selected as the representatives for edible herbs and for edible roots. After removing soil, the samples were dried at 105 ℃ and reduced to ashes at 450 ℃ in porcelain dishes.

(11) Tea

Manufactured green tea was collected and reduced to ashes in a stainless or porcelain dishes at 450 ℃.

(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 samples were dried at 105 ℃ and reduced to ashes at 450 ℃ in porcelain dishes.

b. Shellfish

Shellfish was collected or purchased. After removing the shells, the samples were

dried at 105 ℃ and reduced to ashes at 450 ℃ in porcelain dishes.

c. Seaweeds

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

Table 1 Details of sample collection

Sample	Frequency of sampling	Quantity of sample
=Environmental materials=		
(1) Rain and dry fallout	Monthly	
1. For domestic program		
(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 ℃. After that, strontium and cesium carrier solution and hydrochloric acid were added to the sample and was heated for three hours. The mixture was sometimes stirred during heating and the solution was filtered.

(3) Rice

The ash sample was ground and passed through a 0.35 mm sieve. After that 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 same procedure as described in the section 2 (3) were carried out.

3. Radiochemical separation of strontium-90 and cesium-137

(1) Strontium-90

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

The carbonate was dissolved in hydrochloric acid. Alkaline earth oxalates was precipitated at pH 4.2 by adding aqueous ammonia. The oxalate was heated in an electric funace at 600 ℃. The residue was dissolved in 0.5M hydrochloric acid. The solution was adsorbed on a chromatographic column containing a cation exchange resin. Strontium was eluted from the column with 2M ammonium acetate. The strontium fraction was evaporated to dryness. The residue was dissolved in water and iron carrier solution was added. The solution was alkalinized with carbonate-free aqueous ammonia and heated to complete the precipitation. The precipitation was filtered and rejected. The filtrate was made up to an appropriate volume with deionized water and measured strontium by ICP-AES to determine strontium recovery. Iron carrier solution was added. 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 planchette 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 adsorbed on a chromatographic column containing a cation exchange resin. Cesium was eluted from the column with 2M hydrochloric acid. The cesium fraction was evaporated to dryness. The residue was dissolved in water. Chloroplatinatic acid was added to the solution to produce cesium precipitate. The precipitate was filtered through a filter paper and weighed to determine the cesium recovery. The precipitate was covered with mylar and mounted on a planchette.

4. Determination of stable strontium, calcium and potassium

An weighed amount of soil or sea sediment was heated in an electric muffle furnace at 450 ℃ and then treated with a hydrochloric acid for extraction. An weighed aliquot of ashed samples of total diet, vegetables, milk, fish, shellfish or seaweeds were decomposed with nitric acid and dissolved in hydrochloric acid. After filtered, the solution was made 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.

Radioactivity of strontium-90 and cesium-137 were corrected for counting efficiency and chemical recovery. From the results, concentrations of these nuclides in the original samples were calculated.

The radioactivity concentration was shown in significant figures 2 digits. The error was shown only the counting error.

1 : Sapporo
2 : Aomori
3 : Morioka
4 : Sendai
5 : Akita
6 : Yamagata
7 : Fukushima
8 : Mito
9 : Utsunomiya
10 : Maebashi
11 : Saitama
12 : Chiba
13 : Shinjuku
14 : Yokohama
15 : Niigata
16 : Toyama
17 : Kanazawa
18 : Fukui
19 : Kofu
20 : Nagano
21 : Gifu
22 : Shizuoka
23 : Nagoya
24 : Tsu
25 : Otsu
26 : Kyoto
27 : Osaka
28 : Kobe
29 : Nara
30 : Wakayama
31 : Tottori
32 : Matsue
33 : Okayama
34 : Hiroshima
35 : Yamaguchi
36 : Tokushima
37 : Takamatsu
38 : Matsuyama
39 : Kochi
40 : Fukuoka
41 : Saga
42 : Nagasaki
43 : Kumamoto
44 : Oita
45 : Miyazaki
46 : Kagoshima
47 : Naha

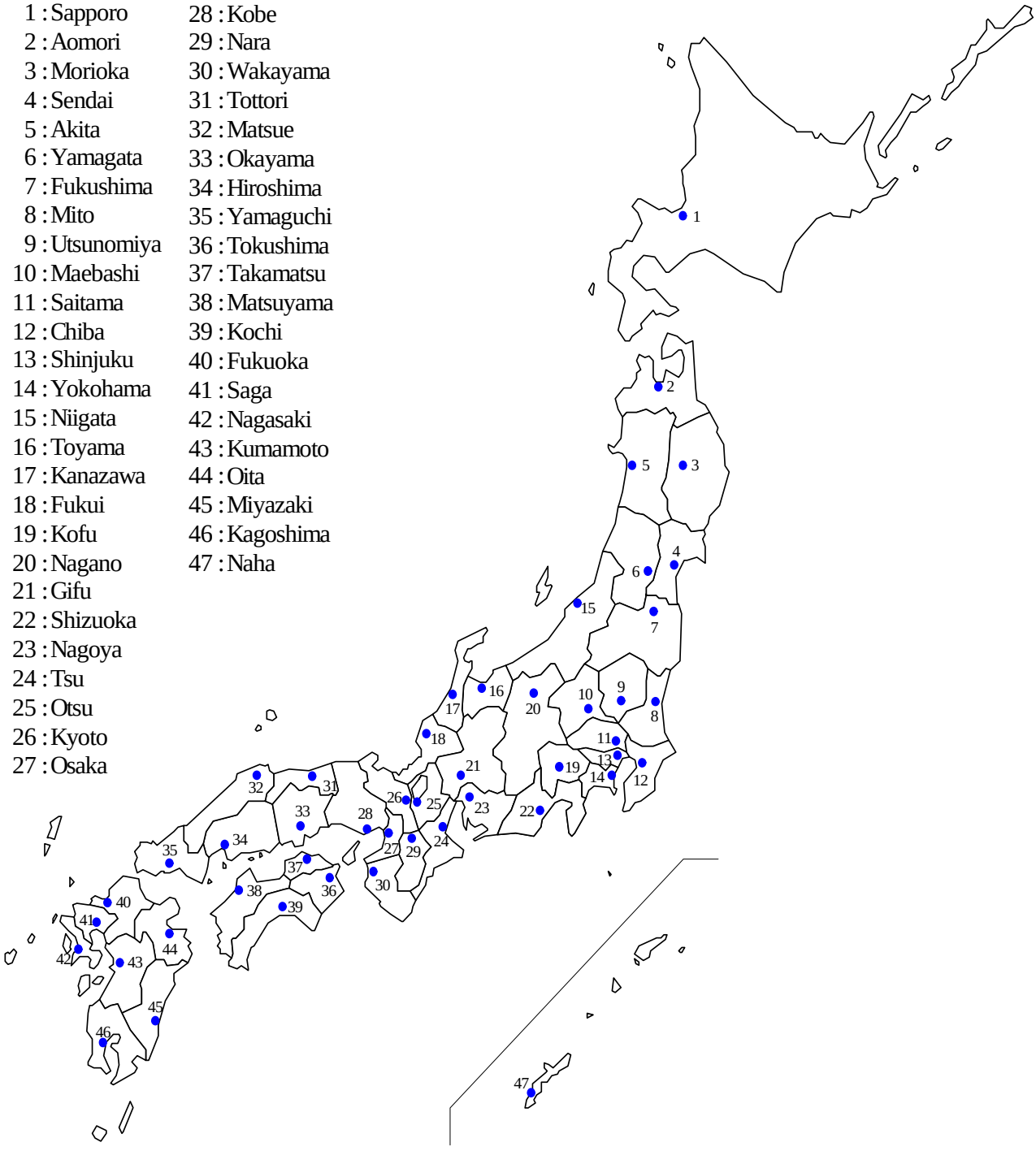

Figure 1. Sampling Locations in Japan

6. Results

(1) Strontium-90 and Cesium-137 in Rain and dry fallout
(from Apr. 2003 to Mar. 2004)

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. 2003								
Sapporo, HOKKAIDO	30	59.5	0.092	±	0.019	0.039	±	0.014
Aomori, AOMORI	30	96.6	0.012	±	0.013	0.022	±	0.0090
Morioka, IWATE	30	109.2	0.017	±	0.014	0.057	±	0.011
Onagawa-machi, MIYAGI	31	103.0	0.019	±	0.015	0.0075	±	0.0089
Akita, AKITA	30	158.0	0.024	±	0.013	0.037	±	0.010
Yamagata, YAMAGATA	30	79.0	0.022	±	0.014	0.027	±	0.0095
Okuma-machi, FUKUSHIMA	30	100.0	0.000	±	0.011	0.0088	±	0.0093
Mito, IBARAKI	30	138.0	0.046	±	0.014	0.042	±	0.011
Kawachi-machi, TOCHIGI	30	127.2	0.006	±	0.012	0.018	±	0.0084
Maebashi, GUNMA	30	106.0	0.018	±	0.015	0.041	±	0.010
Saitama, SAITAMA	30	110.2	0.044	±	0.010	0.025	±	0.0071
Ichihara, CHIBA	30	118.0	0.000	±	0.011	0.019	±	0.0093
Chiba, CHIBA	31	136.8	0.022	±	0.013	0.018	±	0.0084
Shinjuku, TOKYO	30	146.9	0.077	±	0.032	0.029	±	0.012
Yokohama, KANAGAWA	31	139.4	0.031	±	0.013	0.023	±	0.0093
Niigata, NIIGATA	30	171.4	0.019	±	0.014	0.020	±	0.0094
Kosugi-machi, TOYAMA	30	254.5	0.003	±	0.016	0.032	±	0.0095
Kanazawa, ISHIKAWA	30	213.0	0.033	±	0.013	0.012	±	0.0088
Fukui, FUKUI	30	226.7	0.000	±	0.064	0.041	±	0.044
Kofu, YAMANASHI	31	110.5	0.026	±	0.012	0.0082	±	0.0083
Nagano, NAGANO	30	71.8	0.008	±	0.014	0.021	±	0.0086
Kakamigahara, GIFU	30	286.5	0.027	±	0.015	0.020	±	0.010
Shizuoka, SHIZUOKA	31	240.5	0.010	±	0.014	0.0000	±	0.0085
Nagoya, AICHI	30	189.1	0.010	±	0.012	0.061	±	0.011
Yokkaichi, MIE	30	175.0	0.016	±	0.012	0.0088	±	0.0083
Otsu, SHIGA	30	165.6	0.031	±	0.013	0.0029	±	0.0076
Kyoto, KYOTO	35	134.5	0.026	±	0.014	0.011	±	0.0089
Osaka, OSAKA	31	128.04	0.068	±	0.023	0.0057	±	0.0096
Kobe, HYOGO	30	147.6	0.033	±	0.013	0.0059	±	0.0079

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Nara,NARA	30	206.5	0.011	±	0.012	0.0045	±	0.0095
Wakayama,WAKAYAMA	30	165.5	0.034	±	0.015	0.0030	±	0.0084
Hawai-machi,TOTTORI	30	149.2	0.019	±	0.016	0.0000	±	0.0075
Matsue,SHIMANE	28	191.8	0.031	±	0.0098	0.11	±	0.010
Okayama,OKAYAMA	30	130.2	0.045	±	0.016	0.012	±	0.0092
Hiroshima,HIROSHIMA	30	214.8	0.009	±	0.011	0.0058	±	0.0082
Yamaguchi,YAMAGUCHI	30	200.0	0.035	±	0.013	0.0058	±	0.0078
Ishii-machi,TOKUSHIMA	28	90.5	0.042	±	0.023	0.0074	±	0.0085
Takamatsu,KAGAWA	30	76.5	0.016	±	0.013	0.0042	±	0.0081
Matsuyama,EHIME	30	155.0	0.000	±	0.011	0.030	±	0.0097
Kochi,KOCHI	30	211.0	0.062	±	0.016	0.037	±	0.010
Dazaifu,FUKUOKA	30	144.0	0.016	±	0.012	0.009	±	0.013
Saga,SAGA	30	221.1	0.006	±	0.010	0.0006	±	0.0087
Nagasaki,NAGASAKI	30	241.5	0.006	±	0.011	0.0035	±	0.0075
Uto,KUMAMOTO	30	219.9	0.030	±	0.013	0.019	±	0.0087
Oita,OITA	30	116.0	0.042	±	0.014	0.0000	±	0.0075
Miyazaki,MIYAZAKI	30	277.9	0.001	±	0.012	0.012	±	0.0091
Kagoshima,KAGOSHIMA	30	195.5	0.005	±	0.011	0.0023	±	0.0081
Yonashiro-machi,OKINAWA	29	110.0	0.000	±	0.013	0.026	±	0.011
May 2003								
Sapporo,HOKKAIDO	32	51.0	0.007	±	0.014	0.020	±	0.014
Aomori,AOMORI	32	62.5	0.012	±	0.013	0.0041	±	0.0075
Morioka,IWATE	32	60.4	0.005	±	0.015	0.013	±	0.0087
Onagawa-machi,MIYAGI	32	40.5	0.056	±	0.017	0.0000	±	0.0074
Akita,AKITA	32	38.1	0.011	±	0.011	0.0000	±	0.0071
Yamagata,YAMAGATA	32	8.6	0.000	±	0.011	0.0061	±	0.0087
Okuma-machi,FUKUSHIMA	32	33.5	0.008	±	0.012	0.0017	±	0.0087
Mito,IBARAKI	32	86.0	0.024	±	0.014	0.012	±	0.0093
Kawachi-machi,TOCHIGI	32	113.9	0.006	±	0.011	0.012	±	0.0090
Maebashi,GUNMA	32	83.5	0.009	±	0.014	0.022	±	0.0088
Saitama,SAITAMA	32	145.4	0.012	±	0.0081	0.0053	±	0.0058
Ichihara,CHIBA	32	139.1	0.008	±	0.014	0.013	±	0.0090
Chiba,CHIBA	31	145.5	0.008	±	0.013	0.028	±	0.0092
Shinjuku,TOKYO	32	190.2	0.012	±	0.013	0.0059	±	0.0084

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Yokohama, KANAGAWA	29	64.4	0.026	±	0.014	0.0066	±	0.0084
Niigata, NIIGATA	32	70.7	0.004	±	0.013	0.011	±	0.0088
Kosugi-machi, TOYAMA	29	59.4	0.018	±	0.018	0.0030	±	0.0074
Kanazawa, ISHIKAWA	29	60.5	0.028	±	0.013	0.0000	±	0.0082
Fukui, FUKUI	32	52.8	0.005	±	0.058	0.000	±	0.040
Kofu, YAMANASHI	31	136.0	0.000	±	0.012	0.0069	±	0.0075
Nagano, NAGANO	32	47.8	0.000	±	0.013	0.024	±	0.0089
Kakamigahara, GIFU	32	136.5	0.023	±	0.014	0.0000	±	0.0081
Shizuoka, SHIZUOKA	32	261.5	0.021	±	0.013	0.0018	±	0.0090
Nagoya, AICHI	32	119.0	0.019	±	0.012	0.0059	±	0.0078
Yokkaichi, MIE	32	245.0	0.000	±	0.013	0.014	±	0.0081
Otsu, SHIGA	32	98.0	0.011	±	0.016	0.0099	±	0.0090
Kyoto, KYOTO	35	118.0	0.020	±	0.014	0.011	±	0.0088
Osaka, OSAKA	32	88.93	0.062	±	0.016	0.0020	±	0.0090
Kobe, HYOGO	30	78.0	0.030	±	0.013	0.0000	±	0.0072
Nara, NARA	32	147.9	0.017	±	0.013	0.0078	±	0.0091
Wakayama, WAKAYAMA	29	68.0	0.007	±	0.013	0.0042	±	0.0086
Hawai-machi, TOTTORI	31	96.0	0.000	±	0.011	0.028	±	0.0095
Matsue, SHIMANE	29	148.6	0.017	±	0.0072	0.016	±	0.0058
Okayama, OKAYAMA	32	140.1	0.000	±	0.012	0.0062	±	0.0085
Hiroshima, HIROSHIMA	32	182.8	0.032	±	0.012	0.0000	±	0.0079
Yamaguchi, YAMAGUCHI	31	162.0	0.018	±	0.012	0.0006	±	0.0077
Ishii-machi, TOKUSHIMA	31	93.8	0.022	±	0.020	0.0084	±	0.0084
Takamatsu, KAGAWA	32	85.0	0.000	±	0.011	0.021	±	0.0096
Matsuyama, EHIME	32	169.5	0.000	±	0.012	0.0023	±	0.0079
Kochi, KOCHI	32	479.9	0.062	±	0.017	0.042	±	0.011
Dazaifu, FUKUOKA	32	130.4	0.027	±	0.012	0.006	±	0.013
Saga, SAGA	32	175.0	0.004	±	0.010	0.0098	±	0.0094
Nagasaki, NAGASAKI	32	115.5	0.021	±	0.014	0.0035	±	0.0076
Uto, KUMAMOTO	32	174.4	0.016	±	0.012	0.012	±	0.0089
Oita, OITA	32	327.5	0.019	±	0.014	0.0036	±	0.0086
Miyazaki, MIYAZAKI	32	696.6	0.000	±	0.011	0.022	±	0.0099
Kagoshima, KAGOSHIMA	29	115.5	0.009	±	0.011	0.011	±	0.0087
Yonashiro-machi, OKINAWA	32	116.5	0.002	±	0.013	0.0054	±	0.0086

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Jun. 2003								
Sapporo, HOKKAIDO	29	39.5	0.018	±	0.014	0.021	±	0.013
Aomori, AOMORI	29	115.2	0.022	±	0.013	0.0000	±	0.0084
Morioka, IWATE	29	69.9	0.007	±	0.013	0.0030	±	0.0085
Onagawa-machi, MIYAGI	29	83.0	0.002	±	0.011	0.0000	±	0.0073
Akita, AKITA	29	94.9	0.025	±	0.013	0.0000	±	0.0092
Yamagata, YAMAGATA	29	120.2	0.027	±	0.017	0.012	±	0.0094
Okuma-machi, FUKUSHIMA	29	85.5	0.008	±	0.010	0.0029	±	0.0089
Mito, IBARAKI	29	168.0	0.0000	±	0.0093	0.017	±	0.0092
Kawachi-machi, TOCHIGI	29	107.1	0.000	±	0.010	0.010	±	0.0087
Maebashi, GUNMA	29	88.5	0.0010	±	0.0091	0.0058	±	0.0079
Saitama, SAITAMA	29	86.1	0.017	±	0.0081	0.0000	±	0.0049
Ichihara, CHIBA	29	37.4	0.008	±	0.011	0.025	±	0.010
Chiba, CHIBA	29	52.2	0.032	±	0.015	0.0000	±	0.0073
Shinjuku, TOKYO	30	97.8	0.035	±	0.016	0.0000	±	0.0083
Chigasaki, KANAGAWA	28	67.3	0.005	±	0.014	0.0024	±	0.0073
Niigata, NIIGATA	29	115.6	0.008	±	0.013	0.016	±	0.0094
Kosugi-machi, TOYAMA	32	181.6	0.044	±	0.021	0.011	±	0.0088
Kanazawa, ISHIKAWA	31	165.5	0.031	±	0.013	0.0024	±	0.0082
Fukui, FUKUI	31	245.6	0.039	±	0.061	0.000	±	0.044
Kofu, YAMANASHI	30	60.0	0.000	±	0.010	0.0069	±	0.0075
Nagano, NAGANO	29	61.2	0.000	±	0.014	0.012	±	0.0084
Kakamigahara, GIFU	29	228.0	0.010	±	0.013	0.0031	±	0.0086
Shizuoka, SHIZUOKA	28	116.0	0.008	±	0.013	0.0095	±	0.0098
Nagoya, AICHI	29	165.6	0.027	±	0.013	0.019	±	0.0088
Yokkaichi, MIE	29	282.0	0.028	±	0.014	0.0099	±	0.0090
Otsu, SHIGA	29	308.9	0.021	±	0.014	0.0000	±	0.0076
Kyoto, KYOTO	20	234.0	0.046	±	0.013	0.0023	±	0.0080
Osaka, OSAKA	30	148.55	0.040	±	0.013	0.012	±	0.011
Kobe, HYOGO	31	226.2	0.005	±	0.011	0.0076	±	0.0083
Nara, NARA	29	252.9	0.076	±	0.024	0.0000	±	0.0084
Wakayama, WAKAYAMA	34	241.0	0.054	±	0.018	0.0000	±	0.0087
Hawai-machi, TOTTORI	30	111.0	0.002	±	0.015	0.0000	±	0.0075
Matsue, SHIMANE	33	145.6	0.027	±	0.0085	0.053	±	0.0078

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Okayama,OKAYAMA	30	184.9	0.019	±	0.014	0.011	±	0.0085
Hiroshima,HIROSHIMA	28	198.0	0.005	±	0.012	0.0000	±	0.0081
Yamaguchi,YAMAGUCHI	30	230.0	0.030	±	0.013	0.0053	±	0.0076
Ishii-machi,TOKUSHIMA	31	264.6	0.014	±	0.014	0.41	±	0.024
Takamatsu,KAGAWA	29	98.5	0.000	±	0.011	0.013	±	0.0090
Matsuyama,EHIME	29	138.5	0.003	±	0.013	0.0047	±	0.0081
Kochi,KOCHI	28	341.4	0.042	±	0.017	0.0086	±	0.0093
Dazaifu,FUKUOKA	29	249.9	0.0080	±	0.0092	0.000	±	0.012
Saga,SAGA	29	244.8	0.003	±	0.011	0.0080	±	0.0082
Nagasaki,NAGASAKI	29	274.5	0.000	±	0.014	0.0000	±	0.0070
Uto,KUMAMOTO	29	326.0	0.008	±	0.012	0.012	±	0.0092
Oita,OITA	29	234.0	0.006	±	0.012	0.0000	±	0.0076
Miyazaki,MIYAZAKI	29	808.9	0.014	±	0.011	0.019	±	0.0093
Kagoshima,KAGOSHIMA	32	552.5	0.015	±	0.012	0.024	±	0.0096
Yonashiro-machi,OKINAWA	29	192.0	0.029	±	0.021	0.014	±	0.0093
Jul.2003								
Sapporo,HOKKAIDO	31	28.0	0.002	±	0.015	0.000	±	0.013
Aomori,AOMORI	31	76.2	0.000	±	0.011	0.0000	±	0.0075
Morioka,IWATE	31	196.1	0.014	±	0.011	0.0030	±	0.0084
Onagawa-machi,MIYAGI	31	497.5	0.000	±	0.012	0.0000	±	0.0065
Akita,AKITA	31	174.1	0.045	±	0.015	0.0035	±	0.0083
Yamagata,YAMAGATA	31	182.3	0.011	±	0.014	0.012	±	0.0088
Okuma-machi,FUKUSHIMA	31	322.5	0.027	±	0.011	0.0000	±	0.0067
Mito,IBARAKI	31	141.0	0.012	±	0.013	0.018	±	0.0098
Kawachi-machi,TOCHIGI	31	184.7	0.000	±	0.012	0.0081	±	0.0086
Maebashi,GUNMA	31	218.0	0.028	±	0.013	0.0000	±	0.0073
Saitama,SAITAMA	31	154.2	0.0000	±	0.0093	0.0000	±	0.0080
Ichihara,CHIBA	31	134.4	0.004	±	0.013	0.030	±	0.011
Chiba,CHIBA	31	114.9	0.018	±	0.014	0.012	±	0.0081
Shinjuku,TOKYO	30	175.4	0.031	±	0.0090	0.0064	±	0.0093
Chigasaki,KANAGAWA	31	214.6	0.023	±	0.019	0.0064	±	0.0077
Niigata,NIIGATA	31	281.6	0.000	±	0.011	0.0054	±	0.0088
Kosugi-machi,TOYAMA	31	196.4	0.029	±	0.012	0.014	±	0.0082
Kanazawa,ISHIKAWA	31	192.0	0.008	±	0.012	0.0000	±	0.0089

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Fukui, FUKUI	29	251.9	0.090	±	0.063	0.000	±	0.043
Kofu, YAMANASHI	30	179.0	0.016	±	0.012	0.0052	±	0.0078
Nagano, NAGANO	31	84.6	0.006	±	0.015	0.0046	±	0.0081
Kakamigahara, GIFU	31	444.5	0.010	±	0.017	0.016	±	0.0095
Shizuoka, SHIZUOKA	31	704.5	0.046	±	0.015	0.0000	±	0.0073
Nagoya, AICHI	31	426.3	0.026	±	0.014	0.0029	±	0.0075
Yokkaichi, MIE	31	429.0	0.007	±	0.014	0.0000	±	0.0086
Otsu, SHIGA	31	281.8	0.007	±	0.013	0.0000	±	0.0071
Kyoto, KYOTO	30	214.0	0.014	±	0.010	0.0013	±	0.0085
Osaka, OSAKA	30	148.60	0.015	±	0.011	0.0000	±	0.0084
Kobe, HYOGO	31	194.6	0.014	±	0.012	0.0000	±	0.0073
Nara, NARA	31	203.6	0.004	±	0.013	0.0000	±	0.0075
Wakayama, WAKAYAMA	29	72.5	0.047	±	0.025	0.0000	±	0.0078
Hawai-machi, TOTTORI	31	240.9	0.000	±	0.018	0.000	±	0.013
Matsue, SHIMANE	30	330.1	0.050	±	0.011	0.065	±	0.0084
Okayama, OKAYAMA	30	211.9	0.017	±	0.014	0.0000	±	0.0075
Hiroshima, HIROSHIMA	32	434.8	0.016	±	0.013	0.0073	±	0.0089
Yamaguchi, YAMAGUCHI	31	674.5	0.012	±	0.012	0.0000	±	0.0082
Ishii-machi, TOKUSHIMA	30	144.9	0.000	±	0.023	0.049	±	0.012
Takamatsu, KAGAWA	31	119.5	0.000	±	0.014	0.011	±	0.014
Matsuyama, EHIME	31	270.0	0.023	±	0.011	0.0000	±	0.0087
Kochi, KOCHI	32	253.7	0.025	±	0.015	0.0026	±	0.0083
Dazaifu, FUKUOKA	31	585.5	0.016	±	0.010	0.000	±	0.012
Saga, SAGA	31	378.6	0.0000	±	0.0099	0.0035	±	0.0080
Nagasaki, NAGASAKI	31	243.0	0.000	±	0.015	0.000	±	0.013
Uto, KUMAMOTO	31	256.6	0.020	±	0.015	0.0064	±	0.0084
Oita, OITA	31	258.5	0.011	±	0.013	0.0000	±	0.0070
Miyazaki, MIYAZAKI	31	93.6	0.021	±	0.013	0.0017	±	0.0082
Kagoshima, KAGOSHIMA	31	310.5	0.000	±	0.014	0.006	±	0.012
Yonashiro-machi, OKINAWA	30	47.5	0.005	±	0.018	0.001	±	0.011
Aug. 2003								
Sapporo, HOKKAIDO	31	85.0	0.012	±	0.014	0.033	±	0.013
Aomori, AOMORI	31	161.7	0.022	±	0.013	0.0023	±	0.0082
Morioka, IWATE	31	237.8	0.020	±	0.012	0.0000	±	0.0069

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Onagawa-machi, MIYAGI	31	147.5	0.016	±	0.013	0.0000	±	0.0072
Akita, AKITA	31	213.2	0.021	±	0.015	0.0036	±	0.0079
Yamagata, YAMAGATA	31	162.2	0.029	±	0.012	0.0093	±	0.0077
Okuma-machi, FUKUSHIMA	31	285.0	0.014	±	0.011	0.0000	±	0.0071
Mito, IBARAKI	31	191.0	0.025	±	0.014	0.0000	±	0.0085
Kawachi-machi, TOCHIGI	31	194.7	0.000	±	0.010	0.0000	±	0.0083
Maebashi, GUNMA	31	148.5	0.008	±	0.010	0.0058	±	0.0079
Saitama, SAITAMA	31	273.4	0.0000	±	0.0094	0.0000	±	0.0082
Ichihara, CHIBA	31	337.3	0.000	±	0.013	0.020	±	0.0087
Chiba, CHIBA	31	343.8	0.023	±	0.015	0.0062	±	0.0082
Shinjuku, TOKYO	31	290.6	0.028	±	0.023	0.0065	±	0.0097
Chigasaki, KANAGAWA	32	449.9	0.019	±	0.012	0.0087	±	0.0077
Niigata, NIIGATA	31	203.5	0.015	±	0.014	0.0000	±	0.0077
Kosugi-machi, TOYAMA	31	292.3	0.006	±	0.011	0.017	±	0.0087
Kanazawa, ISHIKAWA	29	185.5	0.009	±	0.012	0.0000	±	0.0066
Fukui, FUKUI	33	213.6	0.11	±	0.065	0.025	±	0.044
Kofu, YAMANASHI	31	311.0	0.012	±	0.011	0.0000	±	0.0072
Nagano, NAGANO	31	122.0	0.008	±	0.013	0.0000	±	0.0073
Kakamigahara, GIFU	31	298.5	0.000	±	0.014	0.0000	±	0.0080
Nagoya, AICHI	31	283.6	0.012	±	0.020	0.000	±	0.012
Yokkaichi, MIE	31	425.0	0.000	±	0.011	0.0000	±	0.0081
Otsu, SHIGA	31	346.2	0.009	±	0.014	0.0000	±	0.0084
Kyoto, KYOTO	33	305.0	0.019	±	0.011	0.0000	±	0.0070
Osaka, OSAKA	31	131.55	0.028	±	0.015	0.0000	±	0.0084
Kobe, HYOGO	29	301.5	0.001	±	0.011	0.0077	±	0.0087
Nara, NARA	31	293.3	0.044	±	0.014	0.0078	±	0.0091
Wakayama, WAKAYAMA	31	278.0	0.004	±	0.012	0.0000	±	0.0073
Hawai-machi, TOTTORI	31	193.4	0.018	±	0.014	0.036	±	0.015
Matsue, SHIMANE	31	185.0	0.039	±	0.010	0.079	±	0.0090
Okayama, OKAYAMA	31	171.3	0.019	±	0.012	0.0000	±	0.0074
Hiroshima, HIROSHIMA	31	179.6	0.008	±	0.012	0.0070	±	0.0085
Yamaguchi, YAMAGUCHI	31	365.5	0.015	±	0.012	0.0000	±	0.0079
Ishii-machi, TOKUSHIMA	33	268.5	0.028	±	0.027	0.017	±	0.010
Takamatsu, KAGAWA	31	268.5	0.010	±	0.013	0.000	±	0.012

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Matsuyama, EHIME	31	169.0	0.0000	±	0.0093	0.0000	±	0.0082
Kochi, KOCHI	31	512.8	0.034	±	0.016	0.0079	±	0.0089
Dazaifu, FUKUOKA	31	289.8	0.019	±	0.011	0.000	±	0.012
Saga, SAGA	31	261.7	0.000	±	0.011	0.0017	±	0.0084
Nagasaki, NAGASAKI	31	283.5	0.052	±	0.016	0.000	±	0.011
Uto, KUMAMOTO	31	313.7	0.005	±	0.014	0.0017	±	0.0076
Oita, OITA	31	398.5	0.013	±	0.014	0.014	±	0.0092
Miyazaki, MIYAZAKI	31	248.1	0.010	±	0.013	0.0033	±	0.0079
Kagoshima, KAGOSHIMA	29	178.5	0.030	±	0.013	0.015	±	0.0092
Yonashiro-machi, OKINAWA	32	228.5	0.000	±	0.017	0.0000	±	0.0086
Sep. 2003								
Sapporo, HOKKAIDO	30	91.0	0.000	±	0.013	0.013	±	0.013
Aomori, AOMORI	30	147.9	0.000	±	0.011	0.010	±	0.0080
Morioka, IWATE	30	123.6	0.018	±	0.014	0.0041	±	0.0074
Onagawa-machi, MIYAGI	30	76.5	0.000	±	0.013	0.0000	±	0.0068
Akita, AKITA	30	124.7	0.031	±	0.014	0.018	±	0.0090
Yamagata, YAMAGATA	30	109.7	0.021	±	0.012	0.0000	±	0.0077
Okuma-machi, FUKUSHIMA	30	137.0	0.033	±	0.014	0.0000	±	0.0075
Mito, IBARAKI	30	106.5	0.000	±	0.011	0.021	±	0.0097
Kawachi-machi, TOCHIGI	30	146.7	0.014	±	0.012	0.0000	±	0.0070
Maebashi, GUNMA	30	160.0	0.0000	±	0.0094	0.0000	±	0.0071
Saitama, SAITAMA	30	160.3	0.018	±	0.0075	0.0000	±	0.0078
Ichihara, CHIBA	30	150.7	0.001	±	0.011	0.0017	±	0.0077
Chiba, CHIBA	30	130.0	0.007	±	0.013	0.0000	±	0.0069
Shinjuku, TOKYO	30	132.0	0.036	±	0.018	0.010	±	0.011
Chigasaki, KANAGAWA	29	149.2	0.004	±	0.014	0.0000	±	0.0084
Niigata, NIIGATA	30	72.4	0.001	±	0.012	0.0029	±	0.0083
Kosugi-machi, TOYAMA	30	89.9	0.021	±	0.012	0.0060	±	0.0077
Kanazawa, ISHIKAWA	32	221.5	0.000	±	0.010	0.0036	±	0.0079
Fukui, FUKUI	29	75.2	0.10	±	0.060	0.000	±	0.039
Kofu, YAMANASHI	30	151.5	0.006	±	0.010	0.0006	±	0.0074
Nagano, NAGANO	30	79.9	0.000	±	0.011	0.0022	±	0.0077
Kakamigahara, GIFU	30	271.0	0.011	±	0.020	0.0082	±	0.0095
Shizuoka, SHIZUOKA	30	217.0	0.022	±	0.014	0.0000	±	0.0076

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Nagoya,AICHI	30	149.7	0.030	±	0.014	0.000	±	0.012
Yokkaichi,MIE	30	144.5	0.031	±	0.017	0.015	±	0.0086
Otsu,SHIGA	30	177.2	0.000	±	0.012	0.0000	±	0.0084
Kyoto,KYOTO	29	135.0	0.029	±	0.011	0.0000	±	0.0070
Osaka,OSAKA	30	142.72	0.023	±	0.016	0.000	±	0.012
Kobe,HYOGO	32	119.1	0.012	±	0.013	0.0000	±	0.0075
Nara,NARA	30	237.0	0.010	±	0.018	0.0000	±	0.0089
Wakayama,WAKAYAMA	30	196	0.021	±	0.013	0.0000	±	0.0078
Hawai-machi,TOTTORI	30	190.0	0.007	±	0.013	0.005	±	0.013
Matsue,SHIMANE	30	108.3	0.035	±	0.0083	0.071	±	0.0087
Okayama,OKAYAMA	30	68.9	0.008	±	0.012	0.0000	±	0.0077
Hiroshima,HIROSHIMA	30	85.2	0.033	±	0.014	0.0040	±	0.0088
Yamaguchi,YAMAGUCHI	30	52.5	0.031	±	0.013	0.0032	±	0.0085
Ishii-machi,TOKUSHIMA	28	268.4	0.000	±	0.031	0.0000	±	0.0097
Takamatsu,KAGAWA	30	52.0	0.000	±	0.011	0.009	±	0.013
Matsuyama,EHIME	30	49.5	0.017	±	0.011	0.0000	±	0.0093
Kochi,KOCHI	29	302.1	0.060	±	0.023	0.0000	±	0.0081
Dazaifu,FUKUOKA	30	54.6	0.015	±	0.013	0.0017	±	0.0073
Saga,SAGA	30	57.6	0.000	±	0.010	0.0017	±	0.0084
Nagasaki,NAGASAKI	30	120.0	0.031	±	0.012	0.000	±	0.011
Uto,KUMAMOTO	30	20.4	0.008	±	0.012	0.0040	±	0.0077
Oita,OITA	30	202.5	0.000	±	0.013	0.0000	±	0.0080
Miyazaki,MIYAZAKI	30	204.5	0.014	±	0.011	0.016	±	0.0086
Kagoshima,KAGOSHIMA	32	40.5	0.008	±	0.015	0.0094	±	0.0085
Yonashiro-machi,OKINAWA	31	170.0	0.036	±	0.019	0.0007	±	0.0091
Oct.2003								
Aomori,AOMORI	34	105.1	0.000	±	0.012	0.0023	±	0.0074
Morioka,IWATE	34	78.3	0.012	±	0.011	0.012	±	0.0085
Onagawa-machi,MIYAGI	35	60.5	0.005	±	0.014	0.0000	±	0.0068
Akita,AKITA	34	193.0	0.027	±	0.016	0.0000	±	0.0079
Yamagata,YAMAGATA	34	40.7	0.008	±	0.010	0.0000	±	0.0070
Mito,IBARAKI	34	110.5	0.000	±	0.011	0.0044	±	0.0082
Kawachi-machi,TOCHIGI	34	109.3	0.002	±	0.012	0.0012	±	0.0076
Maebashi,GUNMA	34	73.0	0.011	±	0.012	0.019	±	0.0088

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Saitama, SAITAMA	34	109.2	0.015	±	0.0074	0.0078	±	0.0087
Ichihara, CHIBA	34	165.0	0.024	±	0.011	0.0095	±	0.0072
Chiba, CHIBA	34	134.9	0.015	±	0.013	0.0091	±	0.0077
Shinjuku, TOKYO	34	179.6	0.014	±	0.015	0.0000	±	0.0070
Chigasaki, KANAGAWA	31	180.5	0.011	±	0.012	0.0000	±	0.0080
Niigata, NIIGATA	34	147.0	0.000	±	0.012	0.011	±	0.0092
Kosugi-machi, TOYAMA	30	114.8	0.004	±	0.015	0.0029	±	0.0081
Kanazawa, ISHIKAWA	31	125.5	0.018	±	0.012	0.0028	±	0.0075
Fukui, FUKUI	33	92.0	0.040	±	0.054	0.000	±	0.041
Kofu, YAMANASHI	34	72.0	0.011	±	0.010	0.0000	±	0.0072
Nagano, NAGANO	34	34.4	0.000	±	0.013	0.011	±	0.0084
Kakamigahara, GIFU	34	76.0	0.007	±	0.013	0.0011	±	0.0079
Shizuoka, SHIZUOKA	34	162.0	0.021	±	0.011	0.0000	±	0.0078
Nagoya, AICHI	34	106.5	0.020	±	0.014	0.000	±	0.012
Yokkaichi, MIE	34	128.0	0.017	±	0.013	0.0096	±	0.0077
Otsu, SHIGA	34	89.7	0.014	±	0.016	0.0093	±	0.0082
Kyoto, KYOTO	31	68.0	0.000	±	0.013	0.0000	±	0.0082
Osaka, OSAKA	34	111.12	0.025	±	0.012	0.000	±	0.011
Nara, NARA	34	131.1	0.003	±	0.015	0.0047	±	0.0099
Wakayama, WAKAYAMA	30	90.5	0.031	±	0.013	0.0000	±	0.0077
Hawai-machi, TOTTORI	31	49.6	0.023	±	0.014	0.0060	±	0.0081
Matsue, SHIMANE	30	13.2	0.0074	±	0.0063	0.026	±	0.0066
Okayama, OKAYAMA	34	59.7	0.000	±	0.011	0.0051	±	0.0074
Hiroshima, HIROSHIMA	29	1.8	0.000	±	0.011	0.0000	±	0.0077
Yamaguchi, YAMAGUCHI	31	1.5	0.008	±	0.013	0.0000	±	0.0083
Ishii-machi, TOKUSHIMA	34	145.2	0.015	±	0.021	0.001	±	0.010
Takamatsu, KAGAWA	34	59.5	0.010	±	0.014	0.000	±	0.012
Matsuyama, EHIME	34	80.0	0.017	±	0.011	0.0000	±	0.0072
Kochi, KOCHI	31	186.9	0.052	±	0.017	0.017	±	0.010
Dazaifu, FUKUOKA	34	33.9	0.002	±	0.013	0.0062	±	0.0076
Saga, SAGA	34	30.1	0.008	±	0.013	0.017	±	0.0078
Nagasaki, NAGASAKI	34	60.5	0.017	±	0.011	0.000	±	0.012
Uto, KUMAMOTO	34	69.2	0.011	±	0.012	0.0000	±	0.0075
Oita, OITA	34	73.5	0.000	±	0.012	0.0000	±	0.0081

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Miyazaki,MIYAZAKI	34	207.0	0.001	±	0.011	0.017	±	0.0093
Kagoshima,KAGOSHIMA	31	46.0	0.008	±	0.014	0.012	±	0.014
Yonashiro-machi,OKINAWA	33	204.5	0.013	±	0.020	0.0000	±	0.0075
Nov.2003								
Sapporo,HOKKAIDO	31	73.0	0.013	±	0.013	0.016	±	0.0090
Aomori,AOMORI	27	87.5	0.021	±	0.013	0.032	±	0.0091
Morioka,IWATE	27	114.9	0.013	±	0.011	0.018	±	0.0089
Onagawa-machi,MIYAGI	27	162.0	0.005	±	0.014	0.0000	±	0.0071
Akita,AKITA	27	99.5	0.012	±	0.014	0.0024	±	0.0082
Yamagata,YAMAGATA	27	110.6	0.000	±	0.011	0.0018	±	0.0069
Okuma-machi,FUKUSHIMA	27	120.5	0.002	±	0.010	0.0000	±	0.0077
Mito,IBARAKI	27	151.5	0.003	±	0.012	0.015	±	0.0085
Kawachi-machi,TOCHIGI	27	196.3	0.002	±	0.012	0.0000	±	0.0074
Maebashi,GUNMA	27	108.5	0.0000	±	0.0093	0.0000	±	0.0078
Saitama,SAITAMA	27	162.8	0.013	±	0.0078	0.0008	±	0.0056
Ichihara,CHIBA	27	244.3	0.016	±	0.011	0.016	±	0.0091
Chiba,CHIBA	27	233.9	0.009	±	0.013	0.011	±	0.0080
Shinjuku,TOKYO	27	223.6	0.047	±	0.022	0.0029	±	0.0092
Chigasaki,KANAGAWA	32	305.4	0.000	±	0.015	0.011	±	0.0085
Niigata,NIIGATA	27	159.0	0.015	±	0.015	0.0007	±	0.0096
Kosugi-machi,TOYAMA	31	261.1	0.011	±	0.018	0.0000	±	0.0077
Kanazawa,ISHIKAWA	28	187.0	0.021	±	0.013	0.0000	±	0.0071
Fukui,FUKUI	27	186.7	0.067	±	0.063	0.000	±	0.043
Kofu,YAMANASHI	28	165.5	0.024	±	0.012	0.0000	±	0.0080
Nagano,NAGANO	27	113.3	0.007	±	0.012	0.0000	±	0.0091
Kakamigahara,GIFU	27	205.5	0.000	±	0.040	0.0000	±	0.0092
Shizuoka,SHIZUOKA	27	328.5	0.015	±	0.011	0.0000	±	0.0098
Nagoya,AICHI	27	193.6	0.011	±	0.015	0.0000	±	0.0082
Yokkaichi,MIE	27	206.0	0.020	±	0.013	0.0062	±	0.0074
Otsu,SHIGA	27	165.4	0.000	±	0.011	0.010	±	0.0084
Kyoto,KYOTO	27	130.0	0.005	±	0.013	0.0000	±	0.0084
Osaka,OSAKA	27	150.48	0.012	±	0.011	0.000	±	0.012
Kobe,HYOGO	28	103.7	0.002	±	0.013	0.000	±	0.011
Nara,NARA	27	238.2	0.025	±	0.021	0.0020	±	0.0095

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Wakayama,WAKAYAMA	31	258.0	0.010	±	0.013	0.0000	±	0.0075
Hawai-machi,TOTTORI	30	114.3	0.026	±	0.016	0.0024	±	0.0079
Matsue,SHIMANE	31	54.8	0.016	±	0.0074	0.0000	±	0.0045
Okayama,OKAYAMA	27	114.2	0.007	±	0.012	0.0074	±	0.0076
Hiroshima,HIROSHIMA	32	131.2	0.000	±	0.010	0.0000	±	0.0075
Yamaguchi,YAMAGUCHI	30	128.5	0.021	±	0.019	0.0000	±	0.0076
Ishii-machi,TOKUSHIMA	27	126.8	0.000	±	0.012	0.013	±	0.0089
Takamatsu,KAGAWA	27	110.0	0.000	±	0.014	0.0082	±	0.0080
Matsuyama,EHIME	27	105.0	0.018	±	0.014	0.0037	±	0.0088
Kochi,KOCHI	31	290.6	0.033	±	0.017	0.000	±	0.014
Dazaifu,FUKUOKA	27	107.0	0.012	±	0.013	0.0063	±	0.0069
Saga,SAGA	27	134.2	0.000	±	0.013	0.0018	±	0.0065
Nagasaki,NAGASAKI	27	118.5	0.000	±	0.011	0.000	±	0.011
Uto,KUMAMOTO	27	181.8	0.023	±	0.013	0.0028	±	0.0072
Oita,OITA	27	188.0	0.003	±	0.019	0.0000	±	0.0079
Miyazaki,MIYAZAKI	27	226.4	0.006	±	0.011	0.017	±	0.0079
Kagoshima,KAGOSHIMA	28	202.5	0.026	±	0.017	0.011	±	0.0084
Yonashiro-machi,OKINAWA	27	99.0	0.000	±	0.017	0.025	±	0.012
Dec. 2003								
Sapporo,HOKKAIDO	25	40.0	0.000	±	0.011	0.0000	±	0.0073
Aomori,AOMORI	35	119.5	0.006	±	0.014	0.030	±	0.0099
Morioka,IWATE	35	92.5	0.016	±	0.012	0.012	±	0.0088
Onagawa-machi,MIYAGI	24	30.5	0.017	±	0.017	0.0000	±	0.0073
Akita,AKITA	35	157.7	0.000	±	0.010	0.0080	±	0.0085
Yamagata,YAMAGATA	35	82.3	0.000	±	0.011	0.022	±	0.0085
Okuma-machi,FUKUSHIMA	35	99.5	0.021	±	0.012	0.0000	±	0.0090
Kawachi-machi,TOCHIGI	35	26.9	0.021	±	0.013	0.0000	±	0.0072
Maebashi,GUNMA	35	25.5	0.027	±	0.017	0.0024	±	0.0075
Saitama,SAITAMA	35	37.2	0.0000	±	0.0067	0.0034	±	0.0057
Ichihara,CHIBA	35	49.6	0.023	±	0.012	0.019	±	0.0081
Chiba,CHIBA	35	52.8	0.022	±	0.013	0.0000	±	0.0077
Shinjuku,TOKYO	35	47.6	0.000	±	0.012	0.0094	±	0.0080
Chigasaki,KANAGAWA	24	29.6	0.013	±	0.013	0.0000	±	0.0069
Niigata,NIIGATA	35	234.9	0.010	±	0.011	0.013	±	0.0091

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Kosugi-machi, TOYAMA	25	204.5	0.004	±	0.010	0.0081	±	0.0075
Kanazawa, ISHIKAWA	28	304.0	0.014	±	0.012	0.0000	±	0.0076
Fukui, FUKUI	25	230.2	0.19	±	0.088	0.000	±	0.039
Kofu, YAMANASHI	34	10.0	0.026	±	0.047	0.0006	±	0.0079
Nagano, NAGANO	35	54.0	0.000	±	0.011	0.016	±	0.0078
Kakamigahara, GIFU	36	71.5	0.000	±	0.029	0.0000	±	0.0078
Shizuoka, SHIZUOKA	35	39.5	0.007	±	0.010	0.0000	±	0.0075
Nagoya, AICHI	35	36.7	0.008	±	0.011	0.0000	±	0.0067
Yokkaichi, MIE	35	60.5	0.010	±	0.011	0.0036	±	0.0088
Otsu, SHIGA	35	45.4	0.023	±	0.022	0.0000	±	0.0074
Kyoto, KYOTO	29	66.0	0.000	±	0.011	0.0000	±	0.0081
Osaka, OSAKA	35	17.78	0.011	±	0.013	0.0000	±	0.0070
Kobe, HYOGO	28	73.3	0.008	±	0.014	0.0000	±	0.0066
Nara, NARA	35	32.6	0.000	±	0.014	0.0000	±	0.0082
Wakayama, WAKAYAMA	35	40.5	0.026	±	0.012	0.0024	±	0.0078
Matsue, SHIMANE	35	211.5	0.022	±	0.0089	0.020	±	0.0064
Okayama, OKAYAMA	35	27.4	0.020	±	0.011	0.0000	±	0.0072
Hiroshima, HIROSHIMA	35	36.7	0.016	±	0.011	0.0000	±	0.0080
Yamaguchi, YAMAGUCHI	34	59.5	0.016	±	0.017	0.0062	±	0.0083
Ishii-machi, TOKUSHIMA	36	120.7	0.012	±	0.017	0.0000	±	0.0076
Takamatsu, KAGAWA	35	25.0	0.012	±	0.011	0.0000	±	0.0068
Matsuyama, EHIME	35	37.0	0.014	±	0.012	0.0011	±	0.0077
Kochi, KOCHI	35	54.4	0.060	±	0.017	0.0000	±	0.0074
Dazaifu, FUKUOKA	35	40.4	0.004	±	0.014	0.0074	±	0.0070
Saga, SAGA	35	33.9	0.000	±	0.014	0.027	±	0.0085
Nagasaki, NAGASAKI	35	33.0	0.000	±	0.014	0.027	±	0.0087
Uto, KUMAMOTO	35	39.4	0.027	±	0.014	0.019	±	0.0085
Oita, OITA	35	26.5	0.008	±	0.011	0.0017	±	0.0083
Miyazaki, MIYAZAKI	35	37.3	0.028	±	0.013	0.0018	±	0.0071
Kagoshima, KAGOSHIMA	28	28.0	0.000	±	0.013	0.0054	±	0.0077
Yonashiro-machi, OKINAWA	36	80.5	0.000	±	0.015	0.000	±	0.011
Jan. 2004								
Sapporo, HOKKAIDO	35	104.5	0.013	±	0.011	0.0018	±	0.0084
Aomori, AOMORI	28	63.8	0.021	±	0.012	0.0023	±	0.0078

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Morioka, IWATE	28	60.3	0.012	±	0.010	0.0054	±	0.0084
Onagawa-machi, MIYAGI	38	18.0	0.013	±	0.012	0.0090	±	0.0091
Akita, AKITA	28	175.8	0.008	±	0.015	0.0000	±	0.0076
Yamagata, YAMAGATA	28	123.5	0.000	±	0.010	0.0042	±	0.0072
Okuma-machi, FUKUSHIMA	28	11.5	0.013	±	0.012	0.0080	±	0.0092
Mito, IBARAKI	28	20.0	0.010	±	0.010	0.035	±	0.010
Kawachi-machi, TOCHIGI	28	5.7	0.015	±	0.011	0.020	±	0.0089
Maebashi, GUNMA	28	0.0	0.006	±	0.013	0.0006	±	0.0074
Saitama, SAITAMA	28	4.1	0.016	±	0.0071	0.039	±	0.0072
Ichihara, CHIBA	28	12.9	0.033	±	0.014	0.017	±	0.0085
Chiba, CHIBA	28	9.5	0.019	±	0.014	0.027	±	0.0097
Shinjuku, TOKYO	28	3.6	0.015	±	0.016	0.0000	±	0.0077
Chigasaki, KANAGAWA	35	13.5	0.020	±	0.013	0.0000	±	0.0077
Niigata, NIIGATA	28	149.3	0.016	±	0.011	0.0000	±	0.0079
Kosugi-machi, TOYAMA	35	207.3	0.016	±	0.010	0.019	±	0.0083
Kanazawa, ISHIKAWA	35	351.0	0.012	±	0.015	0.022	±	0.0091
Fukui, FUKUI	39	430.0	0.000	±	0.069	0.000	±	0.036
Kofu, YAMANASHI	28	15.0	0.028	±	0.012	0.0006	±	0.0080
Nagano, NAGANO	28	34.0	0.000	±	0.011	0.016	±	0.0084
Kakamigahara, GIFU	28	27.5	0.013	±	0.013	0.0095	±	0.0090
Shizuoka, SHIZUOKA	28	58.5	0.013	±	0.010	0.022	±	0.0096
Nagoya, AICHI	28	23.3	0.008	±	0.011	0.0000	±	0.0070
Yokkaichi, MIE	28	41.5	0.000	±	0.011	0.0000	±	0.0077
Otsu, SHIGA	28	26.3	0.016	±	0.014	0.0000	±	0.0084
Kyoto, KYOTO	38	21.5	0.014	±	0.014	0.0000	±	0.0082
Osaka, OSAKA	29	26.0	0.000	±	0.011	0.0000	±	0.0080
Kobe, HYOGO	35	9.8	0.009	±	0.015	0.0018	±	0.0072
Nara, NARA	28	40.9	0.019	±	0.014	0.0000	±	0.0084
Wakayama, WAKAYAMA	28	21.0	0.059	±	0.017	0.0083	±	0.0083
Hawai-machi, TOTTORI	27	171.4	0.006	±	0.011	0.0058	±	0.0093
Matsue, SHIMANE	28	118.1	0.036	±	0.010	0.032	±	0.0069
Okayama, OKAYAMA	28	3.0	0.045	±	0.014	0.0000	±	0.0081
Hiroshima, HIROSHIMA	28	8.5	0.0000	±	0.0087	0.0000	±	0.0084
Yamaguchi, YAMAGUCHI	29	31.5	0.000	±	0.011	0.0000	±	0.0073

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Ishii-machi, TOKUSHIMA	26	10.1	0.000	±	0.013	0.0000	±	0.0081
Takamatsu, KAGAWA	28	6.5	0.005	±	0.012	0.0000	±	0.0074
Matsuyama, EHIME	28	25.5	0.016	±	0.011	0.0000	±	0.0071
Kochi, KOCHI	28	19.6	0.000	±	0.015	0.0012	±	0.0078
Dazaifu, FUKUOKA	28	42.0	0.028	±	0.012	0.0043	±	0.0079
Saga, SAGA	28	28.0	0.007	±	0.011	0.0045	±	0.0085
Nagasaki, NAGASAKI	28	53.0	0.000	±	0.014	0.031	±	0.0091
Uto, KUMAMOTO	28	39.3	0.008	±	0.011	0.029	±	0.010
Oita, OITA	28	37.5	0.023	±	0.014	0.0072	±	0.0089
Miyazaki, MIYAZAKI	28	55.1	0.011	±	0.011	0.022	±	0.0084
Kagoshima, KAGOSHIMA	35	44.0	0.016	±	0.013	0.0054	±	0.0078
Yonashiro-machi, OKINAWA	27	59.5	0.000	±	0.013	0.0000	±	0.0087
Feb. 2004								
Sapporo, HOKKAIDO	31	120.5	0.028	±	0.014	0.0000	±	0.0080
Aomori, AOMORI	28	84.5	0.045	±	0.013	0.020	±	0.0091
Morioka, IWATE	28	63.0	0.023	±	0.012	0.042	±	0.011
Onagawa-machi, MIYAGI	28	37.0	0.008	±	0.012	0.0087	±	0.0088
Akita, AKITA	28	79.1	0.000	±	0.011	0.032	±	0.010
Yamagata, YAMAGATA	28	70.3	0.013	±	0.010	0.038	±	0.010
Okuma-machi, FUKUSHIMA	28	26.0	0.043	±	0.015	0.23	±	0.019
Mito, IBARAKI	28	19.0	0.038	±	0.013	0.059	±	0.012
Kawachi-machi, TOCHIGI	29	13.5	0.0077	±	0.010	0.029	±	0.0095
Maebashi, GUNMA	28	15.5	0.004	±	0.012	0.014	±	0.0091
Saitama, SAITAMA	28	9.7	0.029	±	0.0098	0.031	±	0.0084
Ichihara, CHIBA	28	23.7	0.017	±	0.013	0.031	±	0.0092
Chiba, CHIBA	28	20.5	0.030	±	0.014	0.019	±	0.0095
Shinjuku, TOKYO	28	20.6	0.023	±	0.013	0.025	±	0.0096
Chigasaki, KANAGAWA	28	33.4	0.001	±	0.011	0.0000	±	0.0079
Niigata, NIIGATA	28	114.7	0.001	±	0.011	0.048	±	0.011
Kosugi-machi, TOYAMA	31	206.7	0.021	±	0.011	0.065	±	0.011
Kanazawa, ISHIKAWA	31	306.0	0.000	±	0.013	0.086	±	0.013
Fukui, FUKUI	27	267.3	0.071	±	0.070	0.085	±	0.048
Kofu, YAMANASHI	28	27.0	0.013	±	0.012	0.0000	±	0.0075
Nagano, NAGANO	28	64.2	0.000	±	0.014	0.036	±	0.0093

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Kakamigahara, GIFU	28	61.5	0.041	±	0.021	0.029	±	0.010
Shizuoka, SHIZUOKA	28	62.5	0.0000	±	0.0091	0.014	±	0.0089
Nagoya, AICHI	28	44.6	0.023	±	0.013	0.014	±	0.0086
Yokkaichi, MIE	28	56.0	0.008	±	0.013	0.035	±	0.0098
Otsu, SHIGA	28	53.5	0.014	±	0.013	0.0070	±	0.0086
Kyoto, KYOTO	35	51.0	0.010	±	0.013	0.029	±	0.010
Osaka, OSAKA	27	43.39	0.005	±	0.011	0.015	±	0.0088
Kobe, HYOGO	28	20.6	0.009	±	0.012	0.0055	±	0.0075
Nara, NARA	28	25.5	0.000	±	0.012	0.015	±	0.0099
Wakayama, WAKAYAMA	28	68.0	0.057	±	0.017	0.0071	±	0.0082
Hawai-machi, TOTTORI	29	131.9	0.0000	±	0.0087	0.032	±	0.011
Matsue, SHIMANE	28	69.4	0.025	±	0.010	0.11	±	0.010
Okayama, OKAYAMA	28	40.2	0.039	±	0.014	0.0042	±	0.0086
Hiroshima, HIROSHIMA	28	39.2	0.006	±	0.012	0.021	±	0.0087
Yamaguchi, YAMAGUCHI	28	81.0	0.011	±	0.014	0.026	±	0.0086
Ishii-machi, TOKUSHIMA	29	31.7	0.003	±	0.017	0.003	±	0.015
Takamatsu, KAGAWA	28	32.5	0.013	±	0.014	0.017	±	0.0081
Matsuyama, EHIME	28	70.5	0.009	±	0.011	0.015	±	0.0088
Kochi, KOCHI	28	78.7	0.016	±	0.015	0.020	±	0.011
Dazaifu, FUKUOKA	28	80.8	0.043	±	0.014	0.013	±	0.0087
Saga, SAGA	28	132.4	0.031	±	0.015	0.021	±	0.0093
Nagasaki, NAGASAKI	28	70.5	0.000	±	0.014	0.027	±	0.0095
Uto, KUMAMOTO	28	67.9	0.032	±	0.013	0.077	±	0.012
Miyazaki, MIYAZAKI	28	10.2	0.001	±	0.011	0.019	±	0.0089
Kagoshima, KAGOSHIMA	28	9.0	0.017	±	0.013	0.0040	±	0.0076
Yonashiro-machi, OKINAWA	28	103.5	0.025	±	0.016	0.0084	±	0.0098
Mar. 2004								
Sapporo, HOKKAIDO	31	29.0	0.081	±	0.015	0.13	±	0.015
Aomori, AOMORI	31	69.1	0.027	±	0.012	0.12	±	0.014
Morioka, IWATE	31	63.2	0.042	±	0.014	0.058	±	0.011
Onagawa-machi, MIYAGI	31	22.5	0.032	±	0.011	0.019	±	0.0095
Akita, AKITA	31	92.9	0.042	±	0.014	0.089	±	0.012
Yamagata, YAMAGATA	31	16.9	0.028	±	0.014	0.084	±	0.016
Okuma-machi, FUKUSHIMA	31	38.0	0.029	±	0.013	0.036	±	0.010

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Mito, IBARAKI	31	108.0	0.034	±	0.013	0.079	±	0.013
Kawachi-machi, TOCHIGI	30	73.1	0.0000	±	0.0094	0.017	±	0.0089
Maebashi, GUNMA	31	42.0	0.000	±	0.012	0.063	±	0.012
Saitama, SAITAMA	31	105.3	0.017	±	0.0091	0.038	±	0.0086
Ichihara, CHIBA	31	122.7	0.011	±	0.010	0.060	±	0.012
Chiba, CHIBA	31	120.6	0.017	±	0.013	0.082	±	0.013
Shinjuku, TOKYO	32	172.4	0.020	±	0.014	0.0077	±	0.0084
Chigasaki, KANAGAWA	33	146.1	0.0095	±	0.0099	0.026	±	0.0099
Niigata, NIIGATA	31	71.9	0.028	±	0.015	0.088	±	0.013
Kosugi-machi, TOYAMA	31	88.7	0.042	±	0.016	0.065	±	0.011
Kanazawa, ISHIKAWA	30	113.5	0.013	±	0.011	0.058	±	0.012
Fukui, FUKUI	31	119.5	0.12	±	0.074	0.048	±	0.047
Kofu, YAMANASHI	31	70.5	0.036	±	0.013	0.015	±	0.0082
Nagano, NAGANO	31	19.5	0.015	±	0.013	0.025	±	0.0090
Kakamigahara, GIFU	21	26.0	0.000	±	0.011	0.018	±	0.0088
Shizuoka, SHIZUOKA	31	147.5	0.015	±	0.014	0.024	±	0.0095
Yokkaichi, MIE	31	104.5	0.010	±	0.013	0.029	±	0.0089
Otsu, SHIGA	31	86.4	0.023	±	0.012	0.017	±	0.0089
Kyoto, KYOTO	24	73.0	0.060	±	0.018	0.0088	±	0.0089
Osaka, OSAKA	30	82.36	0.008	±	0.014	0.014	±	0.0084
Kobe, HYOGO	33	85.0	0.003	±	0.011	0.0065	±	0.0084
Nara, NARA	31	183.3	0.027	±	0.013	0.022	±	0.0099
Wakayama, WAKAYAMA	31	73.0	0.068	±	0.015	0.011	±	0.0083
Hawai-machi, TOTTORI	31	153	0.018	±	0.012	0.042	±	0.011
Matsue, SHIMANE	31	67.4	0.053	±	0.011	0.23	±	0.014
Okayama, OKAYAMA	31	65.4	0.023	±	0.011	0.0076	±	0.0085
Hiroshima, HIROSHIMA	31	69.9	0.012	±	0.012	0.016	±	0.0085
Yamaguchi, YAMAGUCHI	31	114.5	0.014	±	0.012	0.021	±	0.0097
Ishii-machi, TOKUSHIMA	35	136.4	0.015	±	0.016	0.023	±	0.0097
Takamatsu, KAGAWA	31	63.5	0.057	±	0.018	0.018	±	0.0079
Matsuyama, EHIME	31	75.0	0.026	±	0.013	0.0063	±	0.0082
Kochi, KOCHI	31	213.9	0.056	±	0.019	0.0098	±	0.0094
Dazaifu, FUKUOKA	31	103.0	0.001	±	0.010	0.020	±	0.0087
Saga, SAGA	31	88.2	0.025	±	0.011	0.030	±	0.0099

Location	Duration (Days)	Precipitation (mm)	Sr-90 (MBq/km^2)			Cs-137 (MBq/km^2)		
Nagasaki, NAGASAKI	31	130.0	0.013	±	0.016	0.014	±	0.0085
Uto, KUMAMOTO	31	105.7	0.044	±	0.017	0.019	±	0.0093
Oita, OITA	31	96.0	0.000	±	0.014	0.021	±	0.0097
Miyazaki, MIYAZAKI	31	238.3	0.015	±	0.014	0.023	±	0.0092
Kagoshima, KAGOSHIMA	33	141.0	0.027	±	0.014	0.026	±	0.0096
Yonashiro-machi, OKINAWA	31	122.0	0.037	±	0.014	0.0000	±	0.0093

(2) Strontium-90 and Cesium-137 in Airborne dust
(from Apr.2003 to Apr.2004)
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.2003～May 2003										
Yokohama,KANAGAWA	04	-	05	10397.4	0.00009	±	0.00047	0.00034	±	0.00030
Apr.2003～Jun.2003										
Morioka,IWATE	04	-	06	10368.0	0.0019	±	0.00069	0.00000	±	0.00026
Akita,AKITA	04	-	06	10800.0	0.00049	±	0.00057	0.00044	±	0.00028
Yamagata,YAMAGATA	04	-	06	12960.0	0.00043	±	0.00046	0.00015	±	0.00024
Okuma-machi,FUKUSHIMA	04	-	06	9919.8	0.00022	±	0.00064	0.00062	±	0.00031
Kawachi-machi,TOCHIGI	04	-	06	13937.6	0.00032	±	0.00048	0.00000	±	0.00018
Ichihara,CHIBA	04	-	06	10000.6	0.00073	±	0.00059	0.00000	±	0.00024
Niigata,NIIGATA	04	-	06	9935.7	0.00010	±	0.00053	0.00000	±	0.00030
Kosugi-machi,TOYAMA	04	-	06	18070.8	0.00067	±	0.00036	0.00015	±	0.00017
Fukui,FUKUI	04	-	06	12959.1	0.00060	±	0.00044	0.00045	±	0.00026
Kofu,YAMANASHI	04	-	06	12603.6	0.00078	±	0.00047	0.00054	±	0.00024
Nagano,NAGANO	04	-	06	10987.5	0.0013	±	0.00052	0.00024	±	0.00027
Hamaoka-machi,SHIZUOKA	04	-	06	11104.0	0.00000	±	0.00055	0.00004	±	0.00025
Nagoya,AICHI	04	-	06	10367.6	0.00000	±	0.00057	0.00042	±	0.00029
Yokkaichi,MIE	04	-	06	14448.3	0.0012	±	0.00045	0.00004	±	0.00021
Otsu,SHIGA	04	-	06	10025.7	0.0012	±	0.00057	0.00006	±	0.00029
Kyoto,KYOTO	04	-	06	10063.2	0.00057	±	0.00060	0.00029	±	0.00031
Osaka,OSAKA	04	-	06	13077.0	0.00061	±	0.00052	0.00021	±	0.00022
Kobe,HYOGO	04	-	06	10367.5	0.00010	±	0.00052	0.00000	±	0.00026
Nara,NARA	04	-	06	10615.5	0.00005	±	0.00051	0.00024	±	0.00025
Wakayama,WAKAYAMA	04	-	06	7373.4	0.0020	±	0.00080	0.00000	±	0.00040
Hawai-machi,TOTTORI	04	-	06	14340.0	0.00000	±	0.00034	0.00000	±	0.00025
Okayama,OKAYAMA	04	-	06	12886.0	0.00046	±	0.00043	0.00000	±	0.00021
Hiroshima,HIROSHIMA	04	-	06	10217.3	0.0010	±	0.00056	0.00006	±	0.00029
Yamaguchi,YAMAGUCHI	04	-	06	21796.4	0.00005	±	0.00026	0.00014	±	0.00013
Tokushima,TOKUSHIMA	04	-	06	10080.0	0.00031	±	0.00058	0.00007	±	0.00030
Takamatsu,KAGAWA	04	-	06	12673.0	0.00078	±	0.00052	0.00000	±	0.00022
Saga,SAGA	04	-	06	10550.7	0.00000	±	0.00057	0.00014	±	0.00026
Nagasaki,NAGASAKI	04	-	06	8640.0	0.00000	±	0.00056	0.00049	±	0.00033

Location	Sampling Period			Absorption (m^3)	Sr-90 (mBq/m^3)			Cs-137 (mBq/m^3)		
Uto,KUMAMOTO	04	-	06	15424.0	0.00056	±	0.00034	0.00007	±	0.00020
Oita,OITA	04	-	06	10450.8	0.00000	±	0.00050	0.00000	±	0.00024
Miyazaki,MIYAZAKI	04	-	06	13377.0	0.00039	±	0.00048	0.00011	±	0.00021
Apr.2003～Jul.2003										
Mito,IBARAKI	04	-	07	10756.7	0.00000	±	0.00058	0.00000	±	0.00023
May 2003～Jun.2003										
Maebashi,GUNMA	05	-	06	10006.0	0.00077	±	0.00055	0.00007	±	0.00029
Kakamigahara,GIFU	05	-	06	11462.1	0.00066	±	0.00046	0.00000	±	0.00025
Jul.2003～Sep.2003										
Morioka,IWATE	07	-	09	10368.0	0.00000	±	0.00057	0.00045	±	0.00030
Akita,AKITA	07	-	09	10800.0	0.00000	±	0.00047	0.00028	±	0.00028
Yamagata,YAMAGATA	07	-	09	12960.0	0.00042	±	0.00045	0.00000	±	0.00022
Okuma-machi,FUKUSHIMA	07	-	09	9947.0	0.00006	±	0.00053	0.00024	±	0.00031
Kawachi-machi,TOCHIGI	07	-	09	14513.7	0.00038	±	0.00043	0.00000	±	0.00016
Maebashi,GUNMA	07	-	09	9964.0	0.00034	±	0.00053	0.00025	±	0.00030
Ichihara,CHIBA	07	-	09	10036.8	0.0012	±	0.00064	0.00000	±	0.00026
Chigasaki,KANAGAWA	07	-	09	10468.6	0.00000	±	0.00054	0.00000	±	0.00025
Niigata,NIIGATA	07	-	09	9935.7	0.00000	±	0.00062	0.00000	±	0.00028
Kosugi-machi,TOYAMA	07	-	09	18073.6	0.00077	±	0.00034	0.00011	±	0.00017
Fukui,FUKUI	07	-	09	12959.1	0.0015	±	0.00053	0.00000	±	0.00023
Kofu,YAMANASHI	07	-	09	12603.6	0.00000	±	0.00046	0.00000	±	0.00022
Nagano,NAGANO	07	-	09	11316.0	0.00026	±	0.00041	0.00000	±	0.00024
Kakamigahara,GIFU	07	-	09	11121.9	0.00032	±	0.00044	0.00000	±	0.00023
Hamaoka-machi,SHIZUOKA	07	-	09	12324.0	0.00000	±	0.00034	0.00038	±	0.00024
Nagoya,AICHI	07	-	09	10367.4	0.0018	±	0.00063	0.00000	±	0.00028
Yokkaichi,MIE	07	-	09	14497.8	0.00000	±	0.00032	0.00003	±	0.00019
Otsu,SHIGA	07	-	09	10108.0	0.00061	±	0.00059	0.00000	±	0.00026
Kyoto,KYOTO	07	-	09	10338.0	0.00000	±	0.00056	0.00015	±	0.00029
Osaka,OSAKA	07	-	09	13004.0	0.00000	±	0.00047	0.00034	±	0.00024
Kobe,HYOGO	07	-	09	10367.5	0.00047	±	0.00052	0.00000	±	0.00025
Nara,NARA	07	-	09	10615.1	0.00000	±	0.00074	0.00000	±	0.00025
Wakayama,WAKAYAMA	07	-	09	7349.1	0.0023	±	0.00082	0.00000	±	0.00040
Hawai-machi,TOTTORI	07	-	09	14340.0	0.0011	±	0.00045	0.00000	±	0.00019
Okayama,OKAYAMA	07	-	09	13256.0	0.00049	±	0.00060	0.00000	±	0.00019

Location	Sampling Period			Absorption (m^3)	Sr-90 (mBq/m^3)			Cs-137 (mBq/m^3)		
Hiroshima,HIROSHIMA	07	−	09	10059.3	0.0011	±	0.00071	0.00011	±	0.00028
Yamaguchi,YAMAGUCHI	07	−	09	21687.0	0.00028	±	0.00027	0.00010	±	0.00013
Tokushima,TOKUSHIMA	07	−	09	10080.0	0.00080	±	0.00050	0.00000	±	0.00029
Takamatsu,KAGAWA	07	−	09	15321.1	0.00032	±	0.00032	0.00001	±	0.00019
Saga,SAGA	07	−	09	10448.3	0.00000	±	0.00044	0.00000	±	0.00025
Nagasaki,NAGASAKI	07	−	09	8640.0	0.00025	±	0.00068	0.00000	±	0.00032
Uto,KUMAMOTO	07	−	09	11981.0	0.0015	±	0.00060	0.00000	±	0.00023
Oita,OITA	07	−	09	10368.0	0.00089	±	0.00051	0.00000	±	0.00026
Miyazaki,MIYAZAKI	07	−	09	13198.0	0.0016	±	0.00064	0.00000	±	0.00021
Jul.2003～Oct.2003										
Mito,IBARAKI	07	−	10	10093.3	0.0016	±	0.00058	0.00010	±	0.00029
Oct.2003～Dec.2003										
Morioka,IWATE	10	−	12	10368.0	0.00061	±	0.00055	0.00000	±	0.00026
Yamagata,YAMAGATA	10	−	12	12960.0	0.00019	±	0.00039	0.00000	±	0.00022
Okuma-machi,FUKUSHIMA	10	−	12	10175.0	0.00051	±	0.00050	0.00000	±	0.00028
Kawachi-machi,TOCHIGI	10	−	12	14027.4	0.00011	±	0.00036	0.00009	±	0.00021
Maebashi,GUNMA	10	−	12	10034.0	0.00000	±	0.00054	0.00037	±	0.00029
Ichihara,CHIBA	10	−	12	10231.6	0.00004	±	0.00045	0.00013	±	0.00031
Chigasaki,KANAGAWA	10	−	12	10807.2	0.00000	±	0.00050	0.00000	±	0.00027
Niigata,NIIGATA	10	−	12	9935.7	0.00000	±	0.00051	0.00018	±	0.00029
Kosugi-machi,TOYAMA	10	−	12	18067.2	0.00014	±	0.00030	0.00000	±	0.00015
Fukui,FUKUI	10	−	12	12959.1	0.00030	±	0.00052	0.00000	±	0.00024
Kofu,YAMANASHI	10	−	12	11073.6	0.00051	±	0.00043	0.00000	±	0.00027
Nagano,NAGANO	10	−	12	11316.0	0.00070	±	0.00053	0.00000	±	0.00025
Kakamigahara,GIFU	10	−	12	11890.3	0.00039	±	0.00046	0.00000	±	0.00023
Hamaoka-machi,SHIZUOKA	10	−	12	9590.0	0.00032	±	0.00049	0.00023	±	0.00033
Nagoya,AICHI	10	−	12	10367.7	0.00000	±	0.00051	0.00042	±	0.00031
Yokkaichi,MIE	10	−	12	14524.6	0.00000	±	0.00032	0.00000	±	0.00019
Otsu,SHIGA	10	−	12	10115.3	0.00090	±	0.00086	0.00000	±	0.00028
Kyoto,KYOTO	10	−	12	10296.0	0.00016	±	0.00059	0.00054	±	0.00031
Osaka,OSAKA	10	−	12	12859.0	0.0012	±	0.00053	0.00000	±	0.00023
Kobe,HYOGO	10	−	12	10367.4	0.0016	±	0.00060	0.00000	±	0.00027
Nara,NARA	10	−	12	10800.7	0.0012	±	0.00081	0.00006	±	0.00027
Wakayama,WAKAYAMA	10	−	12	7364.3	0.00094	±	0.00078	0.00000	±	0.00038

Location	Sampling Period			Absorption (m^3)	Sr-90 (mBq/m^3)			Cs-137 (mBq/m^3)		
Hawai-machi,TOTTORI	10	-	12	14340.0	0.00042	±	0.00040	0.00012	±	0.00020
Okayama,OKAYAMA	10	-	12	13083.0	0.00011	±	0.00035	0.00000	±	0.00021
Hiroshima,HIROSHIMA	10	-	12	10267.2	0.00078	±	0.00061	0.00000	±	0.00027
Yamaguchi,YAMAGUCHI	10	-	12	21806.8	0.00010	±	0.00032	0.00000	±	0.00013
Tokushima,TOKUSHIMA	10	-	12	10080.0	0.00000	±	0.00041	0.00009	±	0.00032
Takamatsu,KAGAWA	10	-	12	14976.0	0.00038	±	0.00040	0.00000	±	0.00019
Saga,SAGA	10	-	12	11807.9	0.00094	±	0.00047	0.00000	±	0.00024
Nagasaki,NAGASAKI	10	-	12	8640.0	0.0021	±	0.00070	0.00002	±	0.00033
Uto,KUMAMOTO	10	-	12	12514.0	0.00059	±	0.00043	0.00018	±	0.00024
Oita,OITA	10	-	12	10368.4	0.00073	±	0.00079	0.00014	±	0.00029
Miyazaki,MIYAZAKI	10	-	12	13490.0	0.00042	±	0.00040	0.00023	±	0.00022
Oct.2003～Jan.2004										
Mito,IBARAKI	10	-	01	10694.6	0.00005	±	0.00046	0.00000	±	0.00027
Jan.2004～Mar.2004										
Morioka,IWATE	01	-	03	10368.0	0.00076	±	0.00048	0.00000	±	0.00024
Yamagata,YAMAGATA	01	-	03	12960.0	0.00000	±	0.00041	0.00000	±	0.00020
Okuma-machi,FUKUSHIMA	01	-	03	9977.3	0.00019	±	0.00052	0.00016	±	0.00032
Kawachi-machi,TOCHIGI	01	-	03	13491.3	0.00046	±	0.00044	0.00000	±	0.00022
Maebashi,GUNMA	01	-	03	10217.0	0.00058	±	0.00057	0.00051	±	0.00030
Ichihara,CHIBA	01	-	03	10029.6	0.00016	±	0.00053	0.00000	±	0.00029
Chigasaki,KANAGAWA	01	-	03	11028.5	0.00060	±	0.00066	0.00037	±	0.00027
Niigata,NIIGATA	01	-	03	9935.7	0.00059	±	0.00050	0.00000	±	0.00026
Kosugi-machi,TOYAMA	01	-	03	18076.6	0.00046	±	0.00030	0.00000	±	0.00014
Fukui,FUKUI	01	-	03	12959.1	0.00021	±	0.00044	0.00000	±	0.00021
Kofu,YAMANASHI	01	-	03	12225.6	0.00000	±	0.00035	0.00002	±	0.00027
Nagano,NAGANO	01	-	03	11040.0	0.00000	±	0.00046	0.00000	±	0.00026
Kakamigahara,GIFU	01	-	03	10848.0	0.00000	±	0.00038	0.00023	±	0.00027
Hamaoka-machi,SHIZUOKA	01	-	03	10794.0	0.00024	±	0.00051	0.00019	±	0.00027
Nagoya,AICHI	01	-	03	10366.9	0.00020	±	0.00057	0.00032	±	0.00029
Yokkaichi,MIE	01	-	03	14397.0	0.00086	±	0.00043	0.00037	±	0.00022
Otsu,SHIGA	01	-	03	10141.4	0.0014	±	0.00059	0.00087	±	0.00035
Kyoto,KYOTO	01	-	03	10422.0	0.00091	±	0.00063	0.00015	±	0.00028
Osaka,OSAKA	01	-	03	12866.0	0.00015	±	0.00042	0.00000	±	0.00022
Kobe,HYOGO	01	-	03	10367.4	0.00036	±	0.00055	0.00059	±	0.00033

Location	Sampling Period			Absorption (m^3)	Sr-90 (mBq/m^3)			Cs-137 (mBq/m^3)		
Nara,NARA	01	-	03	10907.5	0.00090	±	0.00047	0.00008	±	0.00028
Wakayama,WAKAYAMA	01	-	03	8627.9	0.00082	±	0.00069	0.00000	±	0.00034
Hawai-machi,TOTTORI	01	-	03	14340.0	0.00097	±	0.00040	0.00000	±	0.00019
Okayama,OKAYAMA	01	-	03	12788.0	0.00004	±	0.00034	0.00036	±	0.00027
Hiroshima,HIROSHIMA	01	-	03	10329.9	0.0011	±	0.00064	0.00000	±	0.00028
Yamaguchi,YAMAGUCHI	01	-	03	21852.7	0.00012	±	0.00028	0.00015	±	0.00014
Tokushima,TOKUSHIMA	01	-	03	10080.0	0.00000	±	0.00051	0.00000	±	0.00030
Takamatsu,KAGAWA	01	-	03	13570.0	0.00020	±	0.00040	0.00010	±	0.00021
Saga,SAGA	01	-	03	10542.1	0.0014	±	0.00066	0.00000	±	0.00028
Nagasaki,NAGASAKI	01	-	03	8640.0	0.00044	±	0.00065	0.00003	±	0.00033
Uto,KUMAMOTO	01	-	03	12687.0	0.00004	±	0.00050	0.00057	±	0.00026
Oita,OITA	01	-	03	10443.2	0.00014	±	0.00048	0.00000	±	0.00027
Miyazaki,MIYAZAKI	01	-	03	13564.0	0.00041	±	0.00043	0.00035	±	0.00024
Jan.2004～Apr.2004										
Mito,IBARAKI	01	-	04	9212.5	0.00024	±	0.00064	0.00019	±	0.00034

(3) Strontium-90 and Cesium-137 in Service water
(from Apr.2003 to Mar.2004)
Table (3) : Strontium-90 and Cesium-137 in Service water

Location	pH (pH)	Sr-90 (mBq/L)			Cs-137 (mBq/L)		
(Source water)							
May 2003							
Sapporo,HOKKAIDO	7.2	1.1	±	0.11	0.095	±	0.052
Jun.2003							
Saitama,SAITAMA	7.4	0.082	±	0.055	0.000	±	0.037
Kisarazu,CHIBA	7.6	1.6	±	0.14	0.015	±	0.048
Tsukui-machi,KANAGAWA	8.21	0.34	±	0.12	0.000	±	0.044
Inuyama,AICHI	7.1	1.7	±	0.14	0.000	±	0.047
Moriguchi,OSAKA	7.2	2.2	±	0.18	0.070	±	0.054
Fukuoka,FUKUOKA	7.2	1.7	±	0.17	0.006	±	0.038
Jul.2003							
Kyoto,KYOTO	6.30	1.8	±	0.15	0.032	±	0.041
(Tap water)							
May 2003							
Nagasaki,NAGASAKI	7.1	0.93	±	0.12	0.000	±	0.049
Jun.2003							
Wakkanai,HOKKAIDO	7.1	0.86	±	0.11	0.020	±	0.048
Aomori,AOMORI	6.5	1.0	±	0.12	0.16	±	0.054
Sendai,MIYAGI	－	1.1	±	0.12	0.006	±	0.040
Akita,AKITA	6.89	2.1	±	0.22	0.020	±	0.055
Yamagata,YAMAGATA	7.0	1.4	±	0.15	0.000	±	0.043
Fukushima,FUKUSHIMA	7.3	2.1	±	0.17	0.008	±	0.037
Mito,IBARAKI	7.73	1.2	±	0.12	0.006	±	0.039
Maebashi,GUNMA	6.93	0.92	±	0.13	0.029	±	0.042
Saitama,SAITAMA	7.2	1.4	±	0.12	0.055	±	0.044
Ichihara,CHIBA	8.0	1.5	±	0.14	0.000	±	0.042
Katsushika,TOKYO	7.4	1.1	±	0.13	0.10	±	0.044
Niigata,NIIGATA	7.8	1.9	±	0.17	0.093	±	0.041
Kosugi-machi,TOYAMA	7.3	1.2	±	0.13	0.052	±	0.036
Kanazawa,ISHIKAWA	7.42	1.6	±	0.14	0.006	±	0.044
Fukui,FUKUI	7.0	0.64	±	0.11	0.000	±	0.040

Location	pH (pH)	Sr-90 (mBq/L)			Cs-137 (mBq/L)		
Kofu,YAMANASHI	7.2	0.79	±	0.10	0.000	±	0.042
Nagano,NAGANO	7.46	0.76	±	0.096	0.000	±	0.037
Shizuoka,SHIZUOKA	7.06	0.76	±	0.12	0.062	±	0.043
Nagoya,AICHI	7.0	1.7	±	0.15	0.000	±	0.043
Yokkaichi,MIE	7.6	3.4	±	0.19	0.10	±	0.041
Otsu,SHIGA	7.1	2.4	±	0.16	0.000	±	0.042
Kobe,HYOGO	7.06	1.7	±	0.13	0.000	±	0.044
Nara,NARA	7.6	2.2	±	0.18	0.000	±	0.042
Hawai-machi,TOTTORI	7.30	0.049	±	0.069	0.010	±	0.052
Matsue,SHIMANE	－	2.0	±	0.15	0.031	±	0.036
Okayama,OKAYAMA	6.8	1.7	±	0.14	0.000	±	0.035
Hiroshima,HIROSHIMA	6.4	1.9	±	0.14	0.000	±	0.045
Ube,YAMAGUCHI	7.4	1.4	±	0.12	0.000	±	0.040
Tokushima,TOKUSHIMA	7.0	1.4	±	0.17	0.006	±	0.041
Takamatsu,KAGAWA	7.45	2.1	±	0.16	0.000	±	0.044
Matsuyama,EHIME	7.5	1.4	±	0.13	0.000	±	0.040
Fukuoka,FUKUOKA	7.2	1.9	±	0.18	0.012	±	0.038
Saga,SAGA	6.5	1.3	±	0.11	0.009	±	0.041
Uto,KUMAMOTO	7.45	0.052	±	0.061	0.000	±	0.042
Oita,OITA	7.7	0.83	±	0.13	0.060	±	0.062
Miyazaki,MIYAZAKI	7.1	1.2	±	0.13	0.051	±	0.038
Jul.2003							
Morioka,IWATE	7.29	0.84	±	0.12	0.000	±	0.037
Chigasaki,KANAGAWA	7.6	0.32	±	0.088	0.013	±	0.044
Kyoto,KYOTO	6.32	1.9	±	0.16	0.058	±	0.044
Osaka,OSAKA	7.5	2.2	±	0.16	0.003	±	0.034
Aug.2003							
Kagoshima,KAGOSHIMA	7.7	0.56	±	0.11	0.025	±	0.039
Naha,OKINAWA	7.575	2.6	±	0.18	0.000	±	0.032
Sep.2003							
Shingu,WAKAYAMA	6.1	1.5	±	0.15	0.075	±	0.044
Jan.2004							
Kawachi-machi,TOCHIGI	7.1	0.34	±	0.080	0.024	±	0.041

(4) Strontium-90 and Cesium-137 in Fresh water
(from Apr.2003 to Mar.2004)
Table (4) : Strontium-90 and Cesium-137 in Fresh water

Location	pH (pH)	Sr-90 (mBq/L)			Cs-137 (mBq/L)		
(Fresh water)							
May 2003							
Tsuchiura,IBARAKI	8.3	2.1	±	0.16	0.49	±	0.062
Jul.2003							
Ishikari,HOKKAIDO	7.1	1.5	±	0.14	0.31	±	0.064
Aug.2003							
Akita,AKITA	6.53	2.4	±	0.20	0.31	±	0.063
Tsuruga,FUKUI	7.0	3.0	±	0.19	1.3	±	0.09
Sep.2003							
Fukushima,FUKUSHIMA	6.4	0.15	±	0.086	0.043	±	0.035
Oct.2003							
Seki-machi,MIE	7.2	4.6	±	0.23	0.000	±	0.038
Syobara,HIROSHIMA	7.1	1.5	±	0.13	0.012	±	0.043
Nov.2003							
Niigata,NIIGATA	6.84	2.0	±	0.19	0.071	±	0.045
Suwa,NAGANO	8.88	0.65	±	0.094	0.11	±	0.048
Dec.2003							
Uji,KYOTO	7.06	0.091	±	0.061	0.003	±	0.041

(5) Strontium-90 and Cesium-137 in Soil
(from Apr. 2003 to Mar. 2004)
Table (5) : Strontium-90 and Cesium-137 in Soil

Location	Sampling depth (cm)	Sr-90 (Bq/kg)	Sr-90 (MBq/km^2)	Cs-137 (Bq/kg)	Cs-137 (MBq/km^2)
May 2003					
Tokai-mura, IBARAKI	0 - 5	2.0 ± 0.19	72 ± 7.0	18 ± 0.4	670 ± 15
Tokai-mura, IBARAKI	5 - 20	5.2 ± 0.28	680 ± 37	12 ± 0.3	1500 ± 40
Akabane-machi, AICHI	0 - 5	1.2 ± 0.14	30 ± 3.5	7.1 ± 0.24	180 ± 6
Akabane-machi, AICHI	5 - 20	0.86 ± 0.12	59 ± 8.3	9.6 ± 0.28	660 ± 19
Shingu, WAKAYAMA	0 - 5	0.14 ± 0.063	5.0 ± 2.2	2.7 ± 0.15	98 ± 5.4
Shingu, WAKAYAMA	5 - 20	0.26 ± 0.085	29 ± 9.3	0.94 ± 0.094	100 ± 10
Jun. 2003					
Fukushima, FUKUSHIMA	0 - 5	1.6 ± 0.15	56 ± 5.2	22 ± 0.4	780 ± 15
Fukushima, FUKUSHIMA	5 - 20	2.0 ± 0.17	200 ± 17	14 ± 0.3	1400 ± 30
Jul. 2003					
Aomori, AOMORI	0 - 5	2.4 ± 0.18	91 ± 6.9	6.0 ± 0.23	230 ± 9
Aomori, AOMORI	5 - 20	2.3 ± 0.19	210 ± 17	5.8 ± 0.22	530 ± 20
Maebashi, GUNMA	0 - 5	1.7 ± 0.16	76 ± 7.3	3.2 ± 0.17	150 ± 8
Maebashi, GUNMA	5 - 20	0.93 ± 0.12	69 ± 9.2	0.92 ± 0.10	68 ± 7.4
Kashiwazaki, NIIGATA	0 - 5	0.23 ± 0.076	14 ± 4.5	14 ± 0.3	840 ± 20
Kashiwazaki, NIIGATA	5 - 20	0.17 ± 0.071	36 ± 15	8.7 ± 0.26	1800 ± 50
Kosugi-machi, TOYAMA	0 - 5	0.35 ± 0.084	18 ± 4.3	0.75 ± 0.085	38 ± 4.3
Kosugi-machi, TOYAMA	5 - 20	0.15 ± 0.068	22 ± 10	0.43 ± 0.069	63 ± 10
Kanazawa, ISHIKAWA	0 - 5	4.8 ± 0.27	180 ± 10	31 ± 0.5	1200 ± 20
Kanazawa, ISHIKAWA	5 - 20	4.8 ± 0.29	550 ± 34	26 ± 0.5	3100 ± 60
Fukui, FUKUI	0 - 5	0.32 ± 0.088	15 ± 4.1	2.9 ± 0.16	140 ± 7
Fukui, FUKUI	5 - 20	0.43 ± 0.095	32 ± 7.1	1.8 ± 0.13	140 ± 10
Gifu, GIFU	0 - 5	0.37 ± 0.091	13 ± 3.3	7.7 ± 0.26	280 ± 9
Gifu, GIFU	5 - 20	1.2 ± 0.14	170 ± 20	6.2 ± 0.23	870 ± 32
Gotenba, SHIZUOKA	0 - 5	0.52 ± 0.10	12 ± 2.5	7.0 ± 0.25	160 ± 6
Gotenba, SHIZUOKA	5 - 20	0.46 ± 0.11	38 ± 9.1	3.2 ± 0.17	270 ± 14
Yasu-machi, SHIGA	0 - 5	0.19 ± 0.077	11 ± 4.6	0.50 ± 0.072	30 ± 4.3
Yasu-machi, SHIGA	5 - 20	0.32 ± 0.088	42 ± 12	1.6 ± 0.12	210 ± 15
Kyoto, KYOTO	0 - 5	1.1 ± 0.13	27 ± 3.2	2.6 ± 0.15	62 ± 3.5
Kyoto, KYOTO	5 - 20	0.62 ± 0.11	93 ± 16	2.0 ± 0.13	300 ± 20

Location	Sampling depth(cm)	Sr-90 (Bq/kg)			Sr-90 (MBq/km^2)			Cs-137 (Bq/kg)			Cs-137 (MBq/km^2)		
Kasai,HYOGO	0 - 5	1.4	±	0.14	86	±	9.1	18	±	0.4	1200	±	20
Kasai,HYOGO	5 - 20	0.24	±	0.083	34	±	12	1.3	±	0.11	190	±	15
Kashihara,NARA	0 - 5	0.54	±	0.10	37	±	7.0	4.2	±	0.18	290	±	13
Kashihara,NARA	5 - 20	0.54	±	0.11	35	±	6.9	4.4	±	0.19	290	±	12
Hawai-machi,TOTTORI	0 - 5	0.052	±	0.055	4.2	±	4.4	0.41	±	0.078	33	±	6.3
Hawai-machi,TOTTORI	5 - 20	0.26	±	0.074	31	±	8.8	0.37	±	0.065	44	±	7.7
Oda,SHIMANE	0 - 5	6.0	±	0.35	92	±	5.3	18	±	0.5	280	±	7
Oda,SHIMANE	5 - 20	2.6	±	0.20	210	±	16	9.4	±	0.28	730	±	22
Asahi-machi,OKAYAMA	0 - 5	0.93	±	0.12	53	±	7.0	1.2	±	0.10	66	±	6.0
Asahi-machi,OKAYAMA	5 - 20	0.42	±	0.088	73	±	15	0.061	±	0.043	11	±	7.5
Hiroshima,HIROSHIMA	0 - 5	0.76	±	0.11	61	±	8.7	3.2	±	0.16	260	±	13
Hiroshima,HIROSHIMA	5 - 20	1.1	±	0.13	190	±	21	6.5	±	0.22	1100	±	40
Kamiita-machi,TOKUSHIMA	0 - 5	0.49	±	0.090	27	±	5.1	1.9	±	0.13	110	±	7
Kamiita-machi,TOKUSHIMA	5 - 20	0.51	±	0.094	74	±	14	2.0	±	0.13	290	±	19
Sakaide,KAGAWA	0 - 5	1.4	±	0.15	52	±	5.4	5.8	±	0.22	210	±	8
Sakaide,KAGAWA	5 - 20	1.6	±	0.16	94	±	9.2	0.66	±	0.082	39	±	4.8
Matsuyama,EHIME	0 - 5	2.0	±	0.17	22	±	1.9	21	±	0.4	240	±	5
Matsuyama,EHIME	5 - 20	0.61	±	0.10	21	±	3.5	17	±	0.4	570	±	12
Kochi,KOCHI	0 - 5	3.0	±	0.21	82	±	5.7	20	±	0.4	540	±	11
Kochi,KOCHI	5 - 20	3.9	±	0.27	180	±	12	12	±	0.3	550	±	15
Fukuoka,FUKUOKA	0 - 5	4.7	±	0.26	350	±	20	2.7	±	0.15	210	±	11
Fukuoka,FUKUOKA	5 - 20	1.9	±	0.17	320	±	29	0.81	±	0.086	140	±	15
Obama-machi,NAGASAKI	0 - 5	2.2	±	0.17	38	±	3.1	34	±	0.5	610	±	9
Obama-machi,NAGASAKI	5 - 20	3.4	±	0.22	130	±	8	19	±	0.4	710	±	15
Nishihara-mura,KUMAMOTO	0 - 5	3.3	±	0.21	74	±	4.8	54	±	0.6	1200	±	10
Nishihara-mura,KUMAMOTO	5 - 20	4.0	±	0.23	250	±	14	14	±	0.3	860	±	20
Kuju-machi,OITA	0 - 5	1.6	±	0.15	24	±	2.3	56	±	0.7	860	±	11
Kuju-machi,OITA	5 - 20	1.6	±	0.15	72	±	6.8	15	±	0.4	680	±	15
Sadowara-machi,MIYAZAKI	0 - 5	0.71	±	0.11	28	±	4.3	1.9	±	0.13	76	±	5.0
Sadowara-machi,MIYAZAKI	5 - 20	0.63	±	0.11	100	±	17	2.0	±	0.13	330	±	21
Aug. 2003													
Sapporo,HOKKAIDO	0 - 5	5.1	±	0.27	110	±	6	24	±	0.4	530	±	9
Sapporo,HOKKAIDO	5 - 20	5.2	±	0.27	480	±	25	14	±	0.3	1300	±	30
Mutsu,AOMORI	0 - 5	0.28	±	0.082	12	±	3.3	3.0	±	0.16	120	±	6

Location	Sampling depth(cm)	Sr-90 (Bq/kg)	Sr-90 (MBq/km^2)	Cs-137 (Bq/kg)	Cs-137 (MBq/km^2)
Mutsu,AOMORI	5 - 20	0.55 ± 0.10	89 ± 17	0.63 ± 0.077	100 ± 12
Takizawa-mura,IWATE	0 - 5	6.7 ± 0.30	190 ± 8	57 ± 0.7	1600 ± 20
Takizawa-mura,IWATE	5 - 20	7.7 ± 0.31	680 ± 28	8.7 ± 0.27	760 ± 23
Imaichi,TOCHIGI	0 - 5	6.8 ± 0.31	58 ± 2.6	35 ± 0.5	300 ± 5
Imaichi,TOCHIGI	5 - 20	2.4 ± 0.19	84 ± 6.7	5.2 ± 0.21	180 ± 7
Saitama,SAITAMA	0 - 5	1.0 ± 0.13	26 ± 3.5	7.4 ± 0.25	190 ± 6
Saitama,SAITAMA	5 - 20	1.1 ± 0.14	100 ± 12	0.82 ± 0.088	75 ± 8.1
Ichihara,CHIBA	0 - 5	0.026 ± 0.056	1.0 ± 2.2	1.9 ± 0.13	75 ± 5.2
Ichihara,CHIBA	5 - 20	0.24 ± 0.074	34 ± 11	1.6 ± 0.12	230 ± 18
Shinjuku,TOKYO	0 - 5	1.1 ± 0.16	35 ± 5.3	4.2 ± 0.19	140 ± 7
Shinjuku,TOKYO	5 - 20	0.56 ± 0.13	54 ± 13	4.2 ± 0.20	400 ± 19
Yokohama,KANAGAWA	0 - 5	0.59 ± 0.11	17 ± 3.1	1.9 ± 0.13	54 ± 3.7
Yokohama,KANAGAWA	5 - 20	0.80 ± 0.12	71 ± 11	1.7 ± 0.13	150 ± 11
Takane-machi,YAMANASHI	0 - 5	5.3 ± 0.30	120 ± 7	20 ± 0.4	450 ± 9
Takane-machi,YAMANASHI	5 - 20	6.1 ± 0.30	420 ± 20	13 ± 0.3	920 ± 23
Nagano,NAGANO	0 - 5	1.2 ± 0.13	26 ± 2.9	8.9 ± 0.27	200 ± 6
Nagano,NAGANO	5 - 20	0.77 ± 0.12	58 ± 9.0	1.0 ± 0.10	79 ± 7.5
Osaka,OSAKA	0 - 5	0.28 ± 0.081	15 ± 4.3	2.1 ± 0.14	110 ± 7
Osaka,OSAKA	5 - 20	0.73 ± 0.11	120 ± 18	3.1 ± 0.16	500 ± 26
Hagi,YAMAGUCHI	0 - 5	0.51 ± 0.096	40 ± 7.4	4.6 ± 0.19	360 ± 15
Hagi,YAMAGUCHI	5 - 20	1.4 ± 0.14	340 ± 35	4.6 ± 0.19	1200 ± 50
Naha,OKINAWA	0 - 5	0.88 ± 0.11	47 ± 5.9	4.8 ± 0.20	250 ± 11
Naha,OKINAWA	5 - 20	0.75 ± 0.11	130 ± 18	3.1 ± 0.17	530 ± 29
Sep.2003					
Iwadeyama-machi,MIYAGI	0 - 5	1.6 ± 0.17	64 ± 6.7	4.0 ± 0.19	160 ± 7
Iwadeyama-machi,MIYAGI	5 - 20	1.5 ± 0.15	270 ± 29	2.8 ± 0.16	520 ± 29
Yamagata,YAMAGATA	0 - 5	3.2 ± 0.21	150 ± 10	21 ± 0.4	1000 ± 20
Yamagata,YAMAGATA	5 - 20	2.0 ± 0.17	200 ± 17	6.3 ± 0.23	630 ± 23
Komono-machi,MIE	0 - 5	0.074 ± 0.047	4.5 ± 2.9	0.66 ± 0.079	40 ± 4.8
Komono-machi,MIE	5 - 20	0.14 ± 0.055	34 ± 14	0.042 ± 0.038	10 ± 9.5
Saga,SAGA	0 - 5	0.034 ± 0.058	0.8 ± 1.4	0.98 ± 0.095	23 ± 2.2
Saga,SAGA	5 - 20	0.17 ± 0.074	15 ± 6.2	0.34 ± 0.063	29 ± 5.3
Kaimon-machi,KAGOSHIMA	0 - 5	0.16 ± 0.065	11 ± 4.6	0.69 ± 0.086	49 ± 6.1
Kaimon-machi,KAGOSHIMA	5 - 20	0.23 ± 0.074	35 ± 11	0.79 ± 0.089	120 ± 14

Location	Sampling depth(cm)	Sr-90						Cs-137					
		(Bq/kg)			(MBq/km^2)			(Bq/kg)			(MBq/km^2)		
Oct.2003													
Akita,AKITA	0 - 5	2.5	±	0.18	87	±	6.4	27	±	0.5	940	±	16
Akita,AKITA	5 - 20	3.7	±	0.24	300	±	19	17	±	0.4	1400	±	30

(6) Strontium-90 and Cesium-137 in Seawater
(from Apr.2003 to Mar.2004)
Table (6) : Strontium-90 and Cesium-137 in Seawater

Location	Sample Volume analyzed (L)	Cl (‰)	Sr-90 (mBq/L)			Cs-137 (mBq/L)		
Jun.2003								
Yoichi-bay,HOKKAIDO	40	18.64	1.5	±	0.28	2.0	±	0.33
Jul.2003								
Soma,FUKUSHIMA	40	13.90	1.4	±	0.27	0.96	±	0.26
Tokai-mura,IBARAKI	40	16.23	1.8	±	0.37	1.4	±	0.28
Ichihara,CHIBA	40	18	1.3	±	0.26	1.7	±	0.31
Niigata,NIIGATA	40	19.30	1.4	±	0.26	1.9	±	0.33
Osaka-Port,OSAKA	40	9.36	1.6	±	0.36	1.2	±	0.26
Aug.2003								
Mutsu-bay,AOMORI	40	17.4	1.7	±	0.30	1.8	±	0.30
Mutsu,AOMORI	40	18.6	1.7	±	0.29	2.1	±	0.32
Taneichi-machi,IWATE	40	18.2	1.0	±	0.23	1.9	±	0.32
Tokoname,AICHI	40	10.19	1.9	±	0.29	1.2	±	0.27
Yamaguchi-bay,YAMAGUCHI	40	13.35	1.4	±	0.29	1.6	±	0.31
Kitakyusyu,FUKUOKA	40	18.20	1.6	±	0.31	1.7	±	0.29
Sep.2003								
Otawa-bay,KANAGAWA	40	18.2	1.4	±	0.27	2.2	±	0.34
Kaseda,KAGOSHIMA	40	15.74	1.7	±	0.30	1.4	±	0.27
Nov.2003								
White-beach,OKINAWA	40	20.19	1.3	±	0.28	1.9	±	0.33

(7) Strontium-90 and Cesium-137 in Sea sediments
(from Apr. 2003 to Mar. 2004)
Table (7) : Strontium-90 and Cesium-137 in Sea sediments

Location	Depth (m)	Sr-90 (Bq/kg)			Cs-137 (Bq/kg)		
Jun. 2003							
Yoichi-bay, HOKKAIDO	13	0.000	±	0.047	0.32	±	0.066
Jul. 2003							
Soma, FUKUSHIMA	5	0.019	±	0.054	0.23	±	0.051
Tokai-mura, IBARAKI	10	0.000	±	0.050	0.29	±	0.061
Ichihara, CHIBA	16.2	0.006	±	0.050	2.0	±	0.13
Niigata, NIIGATA	25.0	0.007	±	0.058	1.1	±	0.10
Osaka-Port, OSAKA	17.5	0.081	±	0.059	1.8	±	0.13
Aug. 2003							
Mutsu-bay, AOMORI	10.0	0.13	±	0.070	4.2	±	0.19
Mutsu, AOMORI	14.0	0.000	±	0.059	0.096	±	0.050
Tokoname, AICHI	7.0	0.042	±	0.053	0.35	±	0.060
Yamaguchi-bay, YAMAGUCHI	12.6	0.059	±	0.059	2.5	±	0.15
Kitakyusyu, FUKUOKA	5	0.27	±	0.091	2.1	±	0.14
Sep. 2003							
Otawa-bay, KANAGAWA	7.2	0.12	±	0.077	1.4	±	0.11
Kaseda, KAGOSHIMA	7.0	0.026	±	0.058	0.26	±	0.059
Nov. 2003							
White-beach, OKINAWA	13.6	0.031	±	0.056	0.099	±	0.047

(8) Strontium-90 and Cesium-137 in Total diet
(from Apr. 2003 to Mar. 2004)

Table (8) : Strontium-90 and Cesium-137 in Total diet (p/d : person/day)

Location	Ash (g/p/d)	Ca (mg/p/d)	K (mg/p/d)	Sr-90 (Bq/p/d)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/p/d)	Cs-137 (Bq/g K)
May 2003							
Yamagata, YAMAGATA	11.7	292	1400	0.052 ± 0.010	0.18 ± 0.035	0.017 ± 0.0046	0.012 ± 0.0033
Jun. 2003							
Sapporo, HOKKAIDO	14.7	559	2040	0.031 ± 0.0081	0.056 ± 0.014	0.026 ± 0.0057	0.013 ± 0.0028
Aomori, AOMORI	21.9	670	3240	0.10 ± 0.013	0.15 ± 0.019	0.038 ± 0.0066	0.012 ± 0.0020
Morioka, IWATE	9.60	239	1180	0.029 ± 0.0076	0.12 ± 0.032	0.018 ± 0.0053	0.015 ± 0.0044
Fukushima, FUKUSHIMA	18.9	722	2730	0.038 ± 0.0090	0.052 ± 0.012	0.035 ± 0.0063	0.013 ± 0.0023
Mito, IBARAKI	10.8	304	1450	0.035 ± 0.0099	0.11 ± 0.032	0.0078 ± 0.0045	0.0054 ± 0.0031
Utsunomiya, TOCHIGI	21.2	367	2000	0.057 ± 0.0098	0.16 ± 0.027	0.0072 ± 0.0049	0.0036 ± 0.0025
Maebashi, GUNMA	17.9	529	2410	0.055 ± 0.010	0.10 ± 0.020	0.078 ± 0.0091	0.032 ± 0.0038
Saitama, SAITAMA	15.8	412	1950	0.036 ± 0.0085	0.088 ± 0.021	0.026 ± 0.0059	0.013 ± 0.0030
Chiba, CHIBA	14.3	613	2160	0.045 ± 0.0087	0.073 ± 0.014	0.015 ± 0.0049	0.0068 ± 0.0023
Shinjuku, TOKYO	12.2	397	1590	0.018 ± 0.0063	0.045 ± 0.016	0.019 ± 0.0048	0.012 ± 0.0030
Nishikawa-machi, NIIGATA	21.4	556	2720	0.032 ± 0.0072	0.058 ± 0.013	0.018 ± 0.0053	0.0068 ± 0.0020
Toyama, TOYAMA	12.2	481	1500	0.016 ± 0.0068	0.034 ± 0.014	0.024 ± 0.0053	0.016 ± 0.0035
Kanazawa, ISHIKAWA	12.1	416	1380	0.017 ± 0.0068	0.041 ± 0.016	0.016 ± 0.0047	0.012 ± 0.0034
Fukui, FUKUI	14.2	1550	1560	0.028 ± 0.0072	0.018 ± 0.0046	0.0085 ± 0.0042	0.0055 ± 0.0027
Kofu, YAMANASHI	14.4	431	1980	0.032 ± 0.0077	0.074 ± 0.018	0.030 ± 0.0067	0.015 ± 0.0034
Suzaka, NAGANO	12.5	564	1780	0.024 ± 0.0077	0.043 ± 0.014	0.022 ± 0.0051	0.012 ± 0.0029
Gifu, GIFU	12.5	438	2000	0.028 ± 0.0082	0.064 ± 0.019	0.025 ± 0.0052	0.013 ± 0.0026
Shizuoka, SHIZUOKA	14.3	452	1990	0.059 ± 0.011	0.13 ± 0.024	0.018 ± 0.0054	0.0093 ± 0.0027
Nagoya, AICHI	12.8	385	1960	0.030 ± 0.0077	0.078 ± 0.020	0.037 ± 0.0062	0.019 ± 0.0032
Tsu, MIE	16.1	540	2160	0.043 ± 0.0090	0.080 ± 0.017	0.023 ± 0.0052	0.011 ± 0.0024
Otsu, SHIGA	11.6	384	1500	0.022 ± 0.0072	0.058 ± 0.019	0.014 ± 0.0045	0.0094 ± 0.0030
Kyoto, KYOTO	12.2	495	1740	0.038 ± 0.0088	0.076 ± 0.018	0.029 ± 0.0061	0.017 ± 0.0035
Osaka, OSAKA	13.0	536	1940	0.047 ± 0.0087	0.087 ± 0.016	0.036 ± 0.0063	0.019 ± 0.0032
Kakogawa, HYOGO	11.3	513	1460	0.033 ± 0.0079	0.064 ± 0.015	0.013 ± 0.0047	0.0091 ± 0.0032
Kashihara, NARA	9.90	545	1410	0.033 ± 0.0082	0.061 ± 0.015	0.010 ± 0.0044	0.0071 ± 0.0031
Tottori, TOTTORI	10.6	278	1460	0.0088 ± 0.0065	0.032 ± 0.023	0.043 ± 0.0065	0.029 ± 0.0045
Matsue, SHIMANE	15.9	622	2380	0.043 ± 0.0097	0.070 ± 0.016	0.036 ± 0.0064	0.015 ± 0.0027
Okayama, OKAYAMA	14.9	560	1880	0.024 ± 0.0076	0.043 ± 0.014	0.016 ± 0.0045	0.0083 ± 0.0024
Hiroshima, HIROSHIMA	12.2	265	1360	0.039 ± 0.0088	0.15 ± 0.033	0.010 ± 0.0044	0.0074 ± 0.0033
Yamaguchi, YAMAGUCHI	14.7	652	1680	0.033 ± 0.0077	0.051 ± 0.012	0.030 ± 0.0056	0.018 ± 0.0033

Location	Ash (g/p/d)	Ca (mg/p/d)	K (mg/p/d)	Sr-90 (Bq/p/d)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/p/d)	Cs-137 (Bq/g K)
Tokushima,TOKUSHIMA	11.1	401	1720	0.017 ± 0.0070	0.042 ± 0.018	0.018 ± 0.0046	0.010 ± 0.0027
Takamatsu,KAGAWA	13.5	283	2150	0.016 ± 0.0072	0.055 ± 0.026	0.020 ± 0.0049	0.0093 ± 0.0023
Matsuyama,EHIME	14.6	500	2160	0.017 ± 0.0077	0.033 ± 0.015	0.030 ± 0.0060	0.014 ± 0.0028
Kochi,KOCHI	14.4	420	1700	0.036 ± 0.0085	0.085 ± 0.020	0.019 ± 0.0051	0.011 ± 0.0030
Dazaifu,FUKUOKA	14.0	447	1870	0.037 ± 0.0083	0.082 ± 0.019	0.012 ± 0.0053	0.0064 ± 0.0028
Saga,SAGA	10.3	287	1370	0.018 ± 0.0074	0.064 ± 0.026	0.0060 ± 0.0039	0.0044 ± 0.0029
Nagasaki,NAGASAKI	16.0	364	1730	0.036 ± 0.0088	0.099 ± 0.024	0.016 ± 0.0048	0.0092 ± 0.0028
Kumamoto,KUMAMOTO	16.0	479	2470	0.036 ± 0.0085	0.075 ± 0.018	0.049 ± 0.0069	0.020 ± 0.0028
Oita,OITA	11.5	259	1430	0.025 ± 0.0077	0.098 ± 0.030	0.022 ± 0.0054	0.016 ± 0.0038
Miyazaki,MIYAZAKI	16.2	583	1940	0.025 ± 0.0076	0.042 ± 0.013	0.029 ± 0.0055	0.015 ± 0.0028
Sendai,KAGOSHIMA	14.2	357	2030	0.048 ± 0.0099	0.14 ± 0.028	0.035 ± 0.0061	0.017 ± 0.0030
Jul.2003							
Ishinomaki,MIYAGI	17.1	660	2160	0.030 ± 0.0088	0.045 ± 0.013	0.023 ± 0.0055	0.011 ± 0.0026
Akita,AKITA	10.9	414	1510	0.041 ± 0.0085	0.099 ± 0.021	0.012 ± 0.0052	0.0078 ± 0.0034
Wakayama,WAKAYAMA	12.3	298	1760	0.0072 ± 0.0057	0.024 ± 0.019	0.023 ± 0.0052	0.013 ± 0.0030
Aug.2003							
Hiratsuka,KANAGAWA	14.4	480	2540	0.040 ± 0.0085	0.084 ± 0.018	0.040 ± 0.0071	0.016 ± 0.0028
Naha,OKINAWA	11.0	420	1500	0.022 ± 0.0076	0.053 ± 0.018	0.014 ± 0.0045	0.0096 ± 0.0030
Oct.2003							
Nagasaki,NAGASAKI	15.4	436	1750	0.044 ± 0.011	0.10 ± 0.025	0.016 ± 0.0052	0.0090 ± 0.0030
Nov.2003							
Morioka,IWATE	11.5	326	1610	0.023 ± 0.0071	0.071 ± 0.022	0.027 ± 0.0057	0.017 ± 0.0035
Ishinomaki,MIYAGI	16.1	759	2340	0.038 ± 0.0088	0.050 ± 0.012	0.026 ± 0.0062	0.011 ± 0.0026
Yamagata,YAMAGATA	11.9	242	1590	0.024 ± 0.0072	0.10 ± 0.030	0.015 ± 0.0048	0.0096 ± 0.0030
Fukushima,FUKUSHIMA	14.9	609	2250	0.062 ± 0.010	0.10 ± 0.017	0.016 ± 0.0045	0.0070 ± 0.0020
Saitama,SAITAMA	19.5	495	2100	0.051 ± 0.011	0.10 ± 0.021	0.017 ± 0.0053	0.0079 ± 0.0025
Toyama,TOYAMA	14.5	513	2040	0.054 ± 0.0096	0.11 ± 0.019	0.022 ± 0.0061	0.011 ± 0.0030
Fukui,FUKUI	14.0	405	1790	0.032 ± 0.0078	0.079 ± 0.019	0.012 ± 0.0047	0.0070 ± 0.0026
Suzaka,NAGANO	11.6	506	1800	0.025 ± 0.0078	0.050 ± 0.015	0.031 ± 0.0057	0.017 ± 0.0032
Shizuoka,SHIZUOKA	17.7	618	3060	0.047 ± 0.0093	0.076 ± 0.015	0.044 ± 0.0072	0.014 ± 0.0024
Nagoya,AICHI	17.4	546	2230	0.033 ± 0.0086	0.061 ± 0.016	0.023 ± 0.0057	0.010 ± 0.0026
Kashihara,NARA	10.0	709	1420	0.037 ± 0.0079	0.053 ± 0.011	0.023 ± 0.0054	0.016 ± 0.0038
Tottori,TOTTORI	10.2	275	1250	0.030 ± 0.0075	0.11 ± 0.027	0.010 ± 0.0046	0.0082 ± 0.0037
Matsue,SHIMANE	19.1	596	2460	0.045 ± 0.0090	0.076 ± 0.015	0.028 ± 0.0063	0.011 ± 0.0026
Okayama,OKAYAMA	14.1	588	1940	0.047 ± 0.0088	0.080 ± 0.015	0.011 ± 0.0053	0.0058 ± 0.0027
Matsuyama,EHIME	14.7	434	2320	0.045 ± 0.0090	0.10 ± 0.021	0.028 ± 0.0061	0.012 ± 0.0026

Location	Ash	Ca	K	Sr-90				Cs-137			
	(g/p/d)	(mg/p/d)	(mg/p/d)	(Bq/p/d)		(Bq/g Ca)		(Bq/p/d)		(Bq/g K)	
Kochi, KOCHI	14.7	330	1840	0.037 ± 0.0098		0.11 ± 0.030		0.023 ± 0.0057		0.013 ± 0.0031	
Dazaifu, FUKUOKA	13.2	444	1880	0.034 ± 0.0095		0.076 ± 0.021		0.032 ± 0.0059		0.017 ± 0.0032	
Saga, SAGA	12.7	265	1780	0.019 ± 0.0073		0.073 ± 0.028		0.019 ± 0.0054		0.011 ± 0.0030	
Oita, OITA	11.7	338	1420	0.027 ± 0.0073		0.081 ± 0.022		0.015 ± 0.0050		0.011 ± 0.0035	
Sendai, KAGOSHIMA	16.8	511	2250	0.057 ± 0.010		0.11 ± 0.020		0.042 ± 0.0068		0.018 ± 0.0030	
Dec. 2003											
Sapporo, HOKKAIDO	19.7	426	2480	0.033 ± 0.0086		0.078 ± 0.020		0.023 ± 0.0057		0.0093 ± 0.0023	
Aomori, AOMORI	17.3	533	2960	0.096 ± 0.012		0.18 ± 0.023		0.038 ± 0.0067		0.013 ± 0.0023	
Akita, AKITA	11.8	475	1740	0.047 ± 0.0097		0.098 ± 0.020		0.022 ± 0.0050		0.012 ± 0.0029	
Mito, IBARAKI	15.9	368	2130	0.028 ± 0.0084		0.077 ± 0.023		0.028 ± 0.0060		0.013 ± 0.0028	
Utsunomiya, TOCHIGI	18.4	499	2970	0.052 ± 0.0097		0.10 ± 0.019		0.036 ± 0.0065		0.012 ± 0.0022	
Maebashi, GUNMA	18.3	566	3030	0.045 ± 0.0090		0.079 ± 0.016		0.092 ± 0.0093		0.030 ± 0.0031	
Chiba, CHIBA	14.0	454	2230	0.040 ± 0.0088		0.088 ± 0.019		0.012 ± 0.0050		0.0053 ± 0.0022	
Shinjuku, TOKYO	14.3	323	1960	0.056 ± 0.0093		0.17 ± 0.029		0.014 ± 0.0055		0.0073 ± 0.0028	
Hiratsuka, KANAGAWA	13.7	533	2370	0.048 ± 0.0094		0.090 ± 0.018		0.042 ± 0.0068		0.018 ± 0.0029	
Nishikawa-machi, NIIGATA	21.6	836	2870	0.051 ± 0.0085		0.061 ± 0.010		0.026 ± 0.0057		0.0091 ± 0.0020	
Kanazawa, ISHIKAWA	12.1	403	1260	0.017 ± 0.0064		0.042 ± 0.016		0.014 ± 0.0048		0.011 ± 0.0038	
Kofu, YAMANASHI	13.1	537	2010	0.053 ± 0.0092		0.098 ± 0.017		0.031 ± 0.0066		0.015 ± 0.0033	
Gifu, GIFU	16.3	789	2330	0.034 ± 0.0086		0.043 ± 0.011		0.031 ± 0.0062		0.013 ± 0.0027	
Tsu, MIE	18.8	634	2940	0.036 ± 0.0085		0.057 ± 0.013		0.025 ± 0.0058		0.0086 ± 0.0020	
Otsu, SHIGA	13.1	426	1960	0.030 ± 0.0077		0.071 ± 0.018		0.025 ± 0.0056		0.013 ± 0.0029	
Kyoto, KYOTO	13.2	416	1460	0.032 ± 0.0084		0.076 ± 0.020		0.037 ± 0.0066		0.025 ± 0.0045	
Osaka, OSAKA	16.2	655	2610	0.040 ± 0.0084		0.061 ± 0.013		0.045 ± 0.0069		0.017 ± 0.0026	
Kakogawa, HYOGO	14.2	552	1760	0.033 ± 0.0095		0.059 ± 0.017		0.014 ± 0.0047		0.0081 ± 0.0027	
Hiroshima, HIROSHIMA	13.3	245	1650	0.020 ± 0.0072		0.082 ± 0.029		0.013 ± 0.0051		0.0081 ± 0.0031	
Yamaguchi, YAMAGUCHI	17.1	623	2360	0.025 ± 0.0071		0.040 ± 0.011		0.037 ± 0.0067		0.016 ± 0.0029	
Tokushima, TOKUSHIMA	12.6	378	1540	0.019 ± 0.0075		0.050 ± 0.020		0.018 ± 0.0051		0.011 ± 0.0033	
Takamatsu, KAGAWA	20.2	683	2590	0.044 ± 0.0087		0.065 ± 0.013		0.037 ± 0.0063		0.014 ± 0.0025	
Kumamoto, KUMAMOTO	16.0	660	2640	0.037 ± 0.0083		0.056 ± 0.013		0.028 ± 0.0060		0.011 ± 0.0023	
Miyazaki, MIYAZAKI	16.4	723	2450	0.044 ± 0.0093		0.061 ± 0.013		0.032 ± 0.0064		0.013 ± 0.0026	
Jan. 2004											
Wakayama, WAKAYAMA	10.8	329	1550	0.015 ± 0.0071		0.047 ± 0.022		0.015 ± 0.0044		0.0097 ± 0.0029	
Feb. 2004											
Naha, OKINAWA	11.1	366	1550	0.028 ± 0.0081		0.078 ± 0.022		0.0083 ± 0.0044		0.0054 ± 0.0028	

(9)-1

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

(from Apr.2003 to Mar.2004)

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

Location	Ash	Ca	K	Sr-90		Cs-137	
	(%)	(g/kg wet)	(g/kg wet)	(Bq/kg wet)	(Bq/g Ca)	(Bq/kg wet)	(Bq/g K)
Aug.2003							
Sadowara-machi,MIYAZAKI	0.670	0.043	0.878	0.0036 ± 0.0050	0.08 ± 0.12	0.0022 ± 0.0037	0.0025 ± 0.0042
Sep.2003							
Chiba,CHIBA	0.703	0.043	0.851	0.0088 ± 0.0059	0.20 ± 0.14	0.0000 ± 0.0035	0.0000 ± 0.0042
Uchinada-machi,ISHIKAWA	0.626	0.041	0.676	0.0023 ± 0.0047	0.06 ± 0.11	0.0000 ± 0.0029	0.0000 ± 0.0044
Matsusaka,MIE	0.699	0.050	0.881	0.0081 ± 0.0059	0.16 ± 0.12	0.0049 ± 0.0033	0.0056 ± 0.0038
Oct.2003							
Mito,IBARAKI	0.519	0.044	0.758	0.0074 ± 0.0048	0.17 ± 0.11	0.0080 ± 0.0043	0.011 ± 0.0057
Utsunomiya,TOCHIGI	0.817	0.045	0.882	0.0000 ± 0.0049	0.00 ± 0.11	0.0043 ± 0.0041	0.0049 ± 0.0046
Maki-machi,NIIGATA	0.698	0.040	0.775	0.0061 ± 0.0053	0.15 ± 0.13	0.0071 ± 0.0049	0.0092 ± 0.0064
Kosugi-machi,TOYAMA	0.559	0.045	0.839	0.0050 ± 0.0055	0.11 ± 0.12	0.0098 ± 0.0041	0.012 ± 0.0049
Toyoshina-machi,NAGANO	0.553	0.042	0.769	0.012 ± 0.0054	0.28 ± 0.13	0.0000 ± 0.0034	0.0000 ± 0.0044
Gifu,GIFU	0.552	0.045	0.834	0.0000 ± 0.0048	0.00 ± 0.11	0.0029 ± 0.0033	0.0034 ± 0.0040
Shiga-machi,SHIGA	0.753	0.049	1.11	0.0065 ± 0.0054	0.13 ± 0.11	0.0045 ± 0.0037	0.0041 ± 0.0033
Kashihara,NARA	0.756	0.048	0.809	0.0057 ± 0.0057	0.12 ± 0.12	0.0000 ± 0.0037	0.0000 ± 0.0045
Yamaguchi,YAMAGUCHI	0.785	0.047	1.03	0.0053 ± 0.0057	0.11 ± 0.12	0.0089 ± 0.0047	0.0086 ± 0.0045
Miki-machi,KAGAWA	0.608	0.036	0.478	0.0000 ± 0.0045	0.00 ± 0.13	0.0063 ± 0.0034	0.013 ± 0.0072
Koshi-machi,KUMAMOTO	0.787	0.038	0.937	0.0018 ± 0.0050	0.05 ± 0.13	0.0049 ± 0.0042	0.0052 ± 0.0045
Nov.2003							
Ishikari,HOKKAIDO	0.813	0.043	0.821	0.0000 ± 0.0049	0.00 ± 0.11	0.0081 ± 0.0037	0.0098 ± 0.0045
Takizawa-mura,IWATE	0.713	0.045	1.09	0.0044 ± 0.0055	0.10 ± 0.12	0.046 ± 0.0066	0.042 ± 0.0061
Ishinomaki,MIYAGI	0.694	0.035	0.909	0.0031 ± 0.0057	0.09 ± 0.16	0.0035 ± 0.0039	0.0038 ± 0.0043
Fukushima,FUKUSHIMA	0.677	0.047	0.799	0.015 ± 0.0069	0.32 ± 0.15	0.0019 ± 0.0029	0.0024 ± 0.0037
Saga,SAGA	0.585	0.038	0.936	0.0093 ± 0.0058	0.24 ± 0.15	0.014 ± 0.0049	0.015 ± 0.0052
Usa,OITA	0.625	0.036	0.769	0.0071 ± 0.0053	0.20 ± 0.15	0.0000 ± 0.0035	0.0000 ± 0.0045
Dec.2003							
Maebashi,GUNMA	0.495	0.037	0.743	0.0000 ± 0.0045	0.00 ± 0.12	0.0041 ± 0.0038	0.0055 ± 0.0051
Takane-machi,YAMANASHI	0.751	0.049	1.24	0.0036 ± 0.0051	0.07 ± 0.10	0.0042 ± 0.0038	0.0033 ± 0.0031
Kasai,HYOGO	0.649	0.046	0.915	0.0048 ± 0.0062	0.10 ± 0.13	0.0056 ± 0.0033	0.0061 ± 0.0037
Chikushino,FUKUOKA	0.703	0.048	0.914	0.0043 ± 0.0054	0.09 ± 0.11	0.0027 ± 0.0042	0.0030 ± 0.0045

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90 (Bq/kg wet)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/kg wet)	Cs-137 (Bq/g K)
Jan. 2004							
Ishii-machi, TOKUSHIMA	0.517	0.043	0.900	0.0035 ± 0.0049	0.08 ± 0.12	0.0064 ± 0.0039	0.0071 ± 0.0044

(9)-2

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

(from Apr.2003 to Mar.2004)

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

Location	Ash	Ca	K	Sr-90		Cs-137	
	(%)	(g/kg wet)	(g/kg wet)	(Bq/kg wet)	(Bq/g Ca)	(Bq/kg wet)	(Bq/g K)
Oct.2003							
Akita,AKITA	0.592	0.041	0.550	0.020 ± 0.0069	0.50 ± 0.17	0.0046 ± 0.0046	0.0083 ± 0.0083
Saitama,SAITAMA	0.481	0.041	0.736	0.0000 ± 0.0051	0.00 ± 0.13	0.0000 ± 0.0028	0.0000 ± 0.0038
Shinjuku,TOKYO	0.701	0.053	0.693	0.011 ± 0.0069	0.20 ± 0.13	0.12 ± 0.010	0.18 ± 0.015
Chigasaki,KANAGAWA	0.577	0.043	0.739	0.0031 ± 0.0052	0.07 ± 0.12	0.0037 ± 0.0036	0.0050 ± 0.0048
Niigata,NIIGATA	0.539	0.042	0.641	0.0069 ± 0.0051	0.16 ± 0.12	0.0084 ± 0.0045	0.013 ± 0.0070
Fukui,FUKUI	0.596	0.042	0.721	0.0076 ± 0.0056	0.18 ± 0.13	0.0000 ± 0.0040	0.0000 ± 0.0056
Hiroshima,HIROSHIMA	0.581	0.046	0.749	0.0000 ± 0.0038	0.000 ± 0.082	0.017 ± 0.0054	0.022 ± 0.0072
Matsuyama,EHIME	0.514	0.037	0.678	0.011 ± 0.0054	0.29 ± 0.15	0.0000 ± 0.0028	0.0000 ± 0.0041
Nov.2003							
Sapporo,HOKKAIDO	0.739	0.051	0.828	0.0097 ± 0.0062	0.19 ± 0.12	0.0034 ± 0.0032	0.0041 ± 0.0038
Yamagata,YAMAGATA	0.647	0.046	0.763	0.013 ± 0.0057	0.28 ± 0.12	0.0000 ± 0.0035	0.0000 ± 0.0046
Shizuoka,SHIZUOKA	0.558	0.041	0.714	0.0031 ± 0.0054	0.08 ± 0.13	0.0048 ± 0.0038	0.0067 ± 0.0053
Kyoto,KYOTO	0.644	0.040	0.882	0.0097 ± 0.0063	0.24 ± 0.16	0.0000 ± 0.0029	0.0000 ± 0.0032
Osaka,OSAKA	0.656	0.044	0.853	0.0078 ± 0.0060	0.18 ± 0.14	0.012 ± 0.0046	0.014 ± 0.0054
Kobe,HYOGO	0.647	0.045	0.783	0.0048 ± 0.0063	0.11 ± 0.14	0.0092 ± 0.0037	0.012 ± 0.0047
Shingu,WAKAYAMA	0.463	0.040	0.718	0.016 ± 0.0065	0.40 ± 0.16	0.029 ± 0.0059	0.041 ± 0.0082
Yonashiro-machi,OKINAWA	0.707	0.042	0.983	0.010 ± 0.0055	0.24 ± 0.13	0.0000 ± 0.0035	0.0000 ± 0.0036
Dec.2003							
Nagoya,AICHI	0.669	0.044	0.836	0.0093 ± 0.0051	0.21 ± 0.11	0.0012 ± 0.0040	0.0014 ± 0.0047
Kurayoshi,TOTTORI	0.644	0.039	0.766	0.0099 ± 0.0061	0.25 ± 0.16	0.042 ± 0.0067	0.055 ± 0.0088
Matsue,SHIMANE	0.483	0.039	0.811	0.0065 ± 0.0050	0.17 ± 0.13	0.0070 ± 0.0046	0.0086 ± 0.0057
Seto-machi,OKAYAMA	0.701	0.039	0.806	0.0000 ± 0.0049	0.00 ± 0.13	0.0000 ± 0.0037	0.0000 ± 0.0046
Kasuga,FUKUOKA	0.565	0.042	0.819	0.0043 ± 0.0054	0.10 ± 0.13	0.0019 ± 0.0041	0.0024 ± 0.0050
Kagoshima,KAGOSHIMA	0.541	0.041	0.795	0.0000 ± 0.0050	0.00 ± 0.12	0.031 ± 0.0059	0.039 ± 0.0074
Jan.2004							
Hirosaki,AOMORI	0.575	0.044	0.955	0.0044 ± 0.0055	0.10 ± 0.12	0.015 ± 0.0049	0.016 ± 0.0052
Kochi,KOCHI	0.597	0.038	0.830	0.014 ± 0.0060	0.37 ± 0.16	0.0042 ± 0.0041	0.0051 ± 0.0050
Nagasaki,NAGASAKI	0.606	0.043	0.788	0.0082 ± 0.0058	0.19 ± 0.14	0.011 ± 0.0044	0.014 ± 0.0056

(10)-1

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

(from Apr.2003 to Mar.2004)

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

Location	Ash	Ca	K	Sr-90		Cs-137	
	(w/v%)	(g/L)	(g/L)	(Bq/L)	(Bq/g Ca)	(Bq/L)	(Bq/g K)
May 2003							
Sapporo,HOKKAIDO	0.728	1.16	1.51	0.032 ± 0.0080	0.027 ± 0.0069	0.024 ± 0.0058	0.016 ± 0.0038
Hachijo-machi,TOKYO	0.742	1.04	1.53	0.018 ± 0.0068	0.017 ± 0.0065	0.0035 ± 0.0042	0.0023 ± 0.0027
Aug.2003							
Aomori,AOMORI	0.739	1.16	1.66	0.022 ± 0.0069	0.019 ± 0.0060	0.030 ± 0.0060	0.018 ± 0.0036
Takizawa-mura,IWATE	0.712	1.02	1.57	0.0078 ± 0.0053	0.0076 ± 0.0051	0.045 ± 0.0068	0.029 ± 0.0043
Mito,IBARAKI	0.751	1.10	1.61	0.018 ± 0.0060	0.016 ± 0.0054	0.0034 ± 0.0038	0.0021 ± 0.0023
Nishinasuno-machi,TOCHIGI	0.665	1.04	1.57	0.047 ± 0.0083	0.045 ± 0.0079	0.012 ± 0.0042	0.0078 ± 0.0027
Fujimi-mura,GUNMA	0.688	1.07	1.54	0.030 ± 0.0073	0.028 ± 0.0068	0.0098 ± 0.0039	0.0063 ± 0.0025
Yachimata,CHIBA	0.721	1.06	1.59	0.016 ± 0.0070	0.015 ± 0.0066	0.014 ± 0.0045	0.0090 ± 0.0028
Iwamuro-mura,NIIGATA	0.740	1.15	1.64	0.015 ± 0.0066	0.013 ± 0.0057	0.0027 ± 0.0044	0.0016 ± 0.0027
Tonami,TOYAMA	0.679	1.03	1.51	0.011 ± 0.0061	0.010 ± 0.0059	0.026 ± 0.0055	0.017 ± 0.0037
Oshimizu-machi,ISHIKAWA	0.752	1.20	1.67	0.029 ± 0.0076	0.024 ± 0.0063	0.0045 ± 0.0045	0.0027 ± 0.0027
Katsuyama,FUKUI	0.721	1.07	1.70	0.024 ± 0.0075	0.023 ± 0.0071	0.0016 ± 0.0040	0.0009 ± 0.0023
Takane-machi,YAMANASHI	0.746	1.17	1.86	0.026 ± 0.0073	0.022 ± 0.0062	0.0097 ± 0.0044	0.0052 ± 0.0024
Kasamatsu-machi,GIFU	0.694	1.09	1.48	0.021 ± 0.0069	0.019 ± 0.0063	0.0056 ± 0.0039	0.0038 ± 0.0026
Ouchiyama-mura,MIE	0.724	1.12	1.78	0.030 ± 0.0081	0.027 ± 0.0072	0.0012 ± 0.0036	0.0006 ± 0.0020
Hino-machi,SHIGA	0.720	1.14	1.65	0.0000 ± 0.0063	0.0000 ± 0.0055	0.0058 ± 0.0045	0.0035 ± 0.0027
Sakai,Habikino,OSAKA	0.741	1.08	1.62	0.022 ± 0.0077	0.020 ± 0.0071	0.014 ± 0.0050	0.0089 ± 0.0031
Mihara-machi,HYOGO	0.707	1.13	1.65	0.0067 ± 0.0062	0.0059 ± 0.0055	0.0090 ± 0.0040	0.0054 ± 0.0024
Ouda-machi,NARA	0.691	1.01	1.55	0.0027 ± 0.0058	0.0027 ± 0.0058	0.012 ± 0.0043	0.0077 ± 0.0027
Matsue,SHIMANE	0.746	1.21	1.68	0.020 ± 0.0067	0.016 ± 0.0056	0.0038 ± 0.0045	0.0023 ± 0.0027
Chiyoda-machi,HIROSHIMA	0.717	1.17	1.66	0.019 ± 0.0070	0.017 ± 0.0060	0.0051 ± 0.0044	0.0031 ± 0.0026
Kamiita-machi,TOKUSHIMA	0.708	1.11	1.59	0.025 ± 0.0079	0.023 ± 0.0071	0.0012 ± 0.0037	0.0007 ± 0.0023
Kawauchi-machi,EHIME	0.671	1.05	1.52	0.015 ± 0.0072	0.014 ± 0.0068	0.0000 ± 0.0032	0.0000 ± 0.0021
Kochi,KOCHI	0.739	1.09	1.70	0.020 ± 0.0072	0.018 ± 0.0066	0.0094 ± 0.0041	0.0055 ± 0.0024
Yasu-machi,FUKUOKA	0.686	1.05	1.53	0.019 ± 0.0073	0.018 ± 0.0070	0.010 ± 0.0041	0.0068 ± 0.0027
Koshi-machi,KUMAMOTO	0.742	1.17	1.68	0.024 ± 0.0067	0.020 ± 0.0057	0.0072 ± 0.0045	0.0043 ± 0.0027
Kuju-machi,OITA	0.740	1.18	1.75	0.013 ± 0.0066	0.011 ± 0.0056	0.083 ± 0.0085	0.048 ± 0.0048
Takaharu-machi,MIYAZAKI	0.722	1.11	1.71	0.017 ± 0.0062	0.015 ± 0.0056	0.015 ± 0.0052	0.0087 ± 0.0030

Location	Ash (w/v%)	Ca (g/L)	K (g/L)	Sr-90 (Bq/L)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/L)	Cs-137 (Bq/g K)
Sep. 2003							
Kanoya, KAGOSHIMA	0.720	1.12	1.66	0.017 ± 0.0070	0.015 ± 0.0062	0.0057 ± 0.0045	0.0034 ± 0.0027
Oct. 2003							
Yamato-machi, SAGA	0.745	1.13	1.60	0.019 ± 0.0063	0.017 ± 0.0055	0.016 ± 0.0049	0.0097 ± 0.0030
Jan. 2004							
Takase-machi, KAGAWA	0.746	1.15	1.66	0.011 ± 0.0063	0.0098 ± 0.0055	0.0043 ± 0.0039	0.0026 ± 0.0024

(10)-2

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

(from Apr.2003 to Mar.2004)

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

Location	Ash	Ca	K	Sr-90		Cs-137	
	(w/v%)	(g/L)	(g/L)	(Bq/L)	(Bq/g Ca)	(Bq/L)	(Bq/g K)
May 2003							
Sapporo,HOKKAIDO	0.735	1.16	1.63	0.035 ± 0.0079	0.030 ± 0.0068	0.027 ± 0.0057	0.017 ± 0.0035
Shinjuku,TOKYO	0.702	1.09	1.53	0.023 ± 0.0073	0.021 ± 0.0067	0.015 ± 0.0053	0.0096 ± 0.0034
Jun.2003							
Fukushima,FUKUSHIMA	0.742	1.14	1.69	0.016 ± 0.0068	0.014 ± 0.0060	0.013 ± 0.0050	0.0079 ± 0.0029
Shingu,WAKAYAMA	0.677	1.06	1.52	0.0025 ± 0.0065	0.0024 ± 0.0062	0.0027 ± 0.0042	0.0018 ± 0.0028
Jul.2003							
Rifu-machi,MIYAGI	0.727	1.11	1.64	0.023 ± 0.0077	0.020 ± 0.0069	0.015 ± 0.0051	0.0093 ± 0.0031
Aug.2003							
Akita,AKITA	0.712	1.11	1.63	0.040 ± 0.0078	0.036 ± 0.0071	0.079 ± 0.0083	0.049 ± 0.0051
Yamagata,YAMAGATA	0.691	1.04	1.62	0.013 ± 0.0065	0.012 ± 0.0062	0.0073 ± 0.0042	0.0045 ± 0.0026
Saitama,SAITAMA	0.728	1.13	1.61	0.017 ± 0.0069	0.015 ± 0.0061	0.015 ± 0.0053	0.0091 ± 0.0033
Niigata,NIIGATA	0.739	1.14	1.64	0.017 ± 0.0068	0.015 ± 0.0060	0.0034 ± 0.0044	0.0021 ± 0.0027
Fukui,FUKUI	0.720	1.12	1.64	0.032 ± 0.0085	0.029 ± 0.0076	0.011 ± 0.0048	0.0070 ± 0.0029
Shizuoka,SHIZUOKA	0.875	1.36	1.98	0.019 ± 0.0067	0.014 ± 0.0049	0.020 ± 0.0058	0.010 ± 0.0029
Nagoya,AICHI	0.718	1.13	1.59	0.012 ± 0.0071	0.011 ± 0.0063	0.0000 ± 0.0042	0.0000 ± 0.0027
Kyoto,KYOTO	0.717	1.10	1.55	0.014 ± 0.011	0.013 ± 0.0096	0.0008 ± 0.0034	0.0005 ± 0.0022
Osaka,OSAKA	0.732	1.08	1.64	0.028 ± 0.0080	0.026 ± 0.0074	0.0075 ± 0.0039	0.0046 ± 0.0024
Tohaku-machi,TOTTORI	0.646	1.00	1.51	0.019 ± 0.0068	0.019 ± 0.0067	0.018 ± 0.0049	0.012 ± 0.0032
Matsue,SHIMANE	0.735	1.13	1.66	0.029 ± 0.0076	0.026 ± 0.0068	0.0098 ± 0.0049	0.0059 ± 0.0030
Okayama,OKAYAMA	0.719	1.10	1.69	0.021 ± 0.0070	0.019 ± 0.0064	0.013 ± 0.0048	0.0077 ± 0.0028
Hiroshima,HIROSHIMA	0.694	1.04	1.62	0.0074 ± 0.0058	0.0072 ± 0.0056	0.019 ± 0.0049	0.011 ± 0.0030
Yamaguchi,YAMAGUCHI	0.705	1.10	1.62	0.0083 ± 0.0067	0.0075 ± 0.0061	0.0071 ± 0.0045	0.0044 ± 0.0028
Kawauchi-machi,EHIME	0.679	1.07	1.58	0.0075 ± 0.0056	0.0070 ± 0.0052	0.0038 ± 0.0045	0.0024 ± 0.0028
Kochi,KOCHI	0.728	1.11	1.65	0.022 ± 0.0071	0.020 ± 0.0064	0.019 ± 0.0055	0.012 ± 0.0033
Chikushino,FUKUOKA	0.685	1.05	1.64	0.035 ± 0.0078	0.034 ± 0.0075	0.020 ± 0.0048	0.012 ± 0.0029
Nagasaki,NAGASAKI	0.716	1.08	1.57	0.011 ± 0.0065	0.010 ± 0.0061	0.015 ± 0.0052	0.0094 ± 0.0033
Yonashiro-machi,OKINAWA	0.707	1.08	1.63	0.016 ± 0.0067	0.015 ± 0.0062	0.0086 ± 0.0041	0.0053 ± 0.0025
Sep.2003							
Nagano,NAGANO	0.686	1.03	1.61	0.012 ± 0.0061	0.011 ± 0.0059	0.0073 ± 0.0041	0.0045 ± 0.0025
Kagoshima,KAGOSHIMA	0.732	1.16	1.82	0.022 ± 0.0074	0.019 ± 0.0064	0.0096 ± 0.0049	0.0053 ± 0.0027

Location	Ash (w/v%)	Ca (g/L)	K (g/L)	Sr-90 (Bq/L)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/L)	Cs-137 (Bq/g K)
Oct.2003							
Chigasaki,KANAGAWA	0.749	1.11	1.80	0.015 ± 0.0058	0.014 ± 0.0053	0.020 ± 0.0048	0.011 ± 0.0027

(10)-3

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

(from Apr.2003 to Mar.2004)

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

Location	Ash (%)	Ca (g/kg)	K (g/kg)	Sr-90 (Bq/kg)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/kg)	Cs-137 (Bq/g K)
Jun.2003							
Sample A	7.95	12.8	17.3	0.29 ± 0.024	0.023 ± 0.0019	1.1 ± 0.04	0.066 ± 0.0022
Sample B	2.41	3.40	5.18	0.032 ± 0.0077	0.0094 ± 0.0023	0.065 ± 0.0087	0.013 ± 0.0017
Sample D	2.30	3.45	5.15	0.019 ± 0.0067	0.0056 ± 0.0019	0.028 ± 0.0067	0.0054 ± 0.0013
Sample E	3.63	6.03	7.55	0.10 ± 0.012	0.017 ± 0.0020	0.12 ± 0.011	0.016 ± 0.0015
Sample F	2.39	3.44	4.97	0.032 ± 0.0079	0.0093 ± 0.0023	0.15 ± 0.012	0.030 ± 0.0024
Jul.2003							
Sample C	7.66	11.6	17.5	0.45 ± 0.029	0.038 ± 0.0025	1.2 ± 0.04	0.070 ± 0.0022
Jan.2004							
Sample A	7.97	13.3	17.3	0.32 ± 0.027	0.024 ± 0.0020	0.46 ± 0.024	0.027 ± 0.0014
Sample B	2.41	3.66	5.37	0.029 ± 0.0079	0.0080 ± 0.0022	0.068 ± 0.0081	0.013 ± 0.0015
Sample C	7.97	12.8	17.5	0.43 ± 0.030	0.033 ± 0.0024	1.5 ± 0.04	0.086 ± 0.0025
Sample D	2.41	3.64	5.47	0.031 ± 0.0071	0.0086 ± 0.0020	0.022 ± 0.0053	0.0039 ± 0.00096
Sample E	3.57	6.10	7.28	0.11 ± 0.012	0.018 ± 0.0020	0.075 ± 0.0084	0.010 ± 0.0012
Sample F	2.44	3.71	5.05	0.030 ± 0.0071	0.0080 ± 0.0019	0.14 ± 0.011	0.027 ± 0.0022

(11)-1

Strontium-90 and Cesium-137 in Vegetables(producing districts)
(from Apr.2003 to Mar.2004)

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

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90 (Bq/kg wet)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/kg wet)	Cs-137 (Bq/g K)
(Leafy vegetables)							
May 2003							
Tahara-machi, AICHI	1.44	0.340	6.41	0.040 ± 0.0078	0.12 ± 0.023	0.0000 ± 0.0032	0.00000 ± 0.00050
Koshi-machi, KUMAMOTO	2.40	1.05	9.10	0.20 ± 0.016	0.19 ± 0.015	0.0000 ± 0.0037	0.00000 ± 0.00041
Jul.2003							
Oda, SHIMANE	0.823	0.708	2.78	0.36 ± 0.021	0.51 ± 0.030	0.31 ± 0.015	0.11 ± 0.006
Aug.2003							
Eniwa, HOKKAIDO	1.55	0.381	6.98	0.023 ± 0.0085	0.060 ± 0.022	0.0072 ± 0.0044	0.0010 ± 0.00063
Oct.2003							
Mutsu, AOMORI	0.520	0.275	2.09	0.14 ± 0.015	0.51 ± 0.053	0.0000 ± 0.0027	0.0000 ± 0.0013
Tamayama-mura, IWATE	0.519	0.406	2.22	0.12 ± 0.014	0.29 ± 0.035	0.025 ± 0.0063	0.011 ± 0.0028
Utsunomiya, TOCHIGI	0.647	0.458	2.51	0.28 ± 0.019	0.60 ± 0.041	0.010 ± 0.0044	0.0041 ± 0.0017
Toyama, TOYAMA	1.30	0.533	5.67	0.096 ± 0.012	0.18 ± 0.023	0.024 ± 0.0058	0.0042 ± 0.0010
Saku, NAGANO	1.84	0.422	8.26	0.037 ± 0.010	0.087 ± 0.024	0.0000 ± 0.0029	0.00000 ± 0.00036
Nov.2003							
Sannohe-machi, AOMORI	0.531	0.385	2.04	0.11 ± 0.013	0.28 ± 0.034	0.039 ± 0.0065	0.019 ± 0.0032
Fukushima, FUKUSHIMA	1.70	0.784	6.64	0.070 ± 0.012	0.089 ± 0.015	0.0042 ± 0.0048	0.00064 ± 0.00072
Mito, IBARAKI	1.46	0.797	6.39	0.076 ± 0.012	0.095 ± 0.015	0.044 ± 0.0067	0.0069 ± 0.0011
Chiba, CHIBA	1.59	0.929	6.53	0.029 ± 0.0076	0.031 ± 0.0082	0.0000 ± 0.0038	0.00000 ± 0.00059
Fukui, FUKUI	2.00	0.436	8.89	0.065 ± 0.011	0.15 ± 0.024	0.0030 ± 0.0044	0.00033 ± 0.00049
Gotenba, SHIZUOKA	1.65	0.647	7.16	0.043 ± 0.0090	0.067 ± 0.014	0.021 ± 0.0058	0.0029 ± 0.00081
Kusu-machi, MIE	1.20	1.19	4.30	0.086 ± 0.012	0.072 ± 0.010	0.029 ± 0.0063	0.0067 ± 0.0015
Kasai, HYOGO	1.73	0.499	7.38	0.051 ± 0.011	0.10 ± 0.021	0.011 ± 0.0049	0.0015 ± 0.00067
Kurayoshi, TOTTORI	1.38	0.473	4.77	0.084 ± 0.011	0.18 ± 0.024	0.051 ± 0.0075	0.011 ± 0.0016
Takamatsu, KAGAWA	1.64	0.473	6.71	0.023 ± 0.0088	0.048 ± 0.019	0.012 ± 0.0044	0.0018 ± 0.00066
Matsuyama, EHIME	1.53	0.502	6.62	0.12 ± 0.014	0.23 ± 0.029	0.0074 ± 0.0040	0.0011 ± 0.00061
Shime-machi, FUKUOKA	1.31	0.603	5.41	0.057 ± 0.011	0.094 ± 0.019	0.0000 ± 0.0038	0.00000 ± 0.00070
Usa, OITA	2.15	0.413	9.52	0.052 ± 0.011	0.13 ± 0.026	0.0027 ± 0.0036	0.00029 ± 0.00037
Takanabe-machi, MIYAZAKI	1.50	0.329	6.45	0.054 ± 0.010	0.17 ± 0.031	0.0062 ± 0.0043	0.00097 ± 0.00066
Dec.2003							

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90 (Bq/kg wet)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/kg wet)	Cs-137 (Bq/g K)
Maebashi, GUNMA	2.05	0.968	8.73	0.013 ± 0.0069	0.013 ± 0.0072	0.0051 ± 0.0044	0.00058 ± 0.00051
Takane-machi, YAMANASHI	1.94	0.803	7.42	0.25 ± 0.021	0.31 ± 0.026	0.0048 ± 0.0046	0.00065 ± 0.00062
Kakamigahara, GIFU	0.992	1.22	3.02	0.0061 ± 0.0063	0.0050 ± 0.0052	0.013 ± 0.0048	0.0042 ± 0.0016
Azuchi-machi, SHIGA	1.19	0.470	4.91	0.038 ± 0.0089	0.081 ± 0.019	0.0004 ± 0.0040	0.00008 ± 0.00082
Haibara-machi, NARA	0.917	0.161	3.63	0.015 ± 0.0067	0.091 ± 0.042	0.0016 ± 0.0037	0.0004 ± 0.0010
Hiroshima, HIROSHIMA	1.71	0.335	7.60	0.0045 ± 0.0069	0.013 ± 0.020	0.0000 ± 0.0038	0.00000 ± 0.00050
Nankoku, KOCHI	1.71	1.48	5.76	0.11 ± 0.013	0.074 ± 0.0089	0.0070 ± 0.0047	0.0012 ± 0.00081
Saga, SAGA	1.43	1.18	5.62	0.017 ± 0.0071	0.015 ± 0.0060	0.0098 ± 0.0043	0.0017 ± 0.00077
Matsumoto-machi, KAGOSHIMA	1.68	0.857	4.82	0.049 ± 0.0095	0.057 ± 0.011	0.15 ± 0.012	0.032 ± 0.0025
Jan. 2004							
Kumatori-machi, OSAKA	0.665	0.378	2.59	0.044 ± 0.0089	0.12 ± 0.024	0.0004 ± 0.0039	0.0001 ± 0.0015
Yuya-machi, YAMAGUCHI	1.91	0.695	6.72	0.22 ± 0.017	0.31 ± 0.024	0.0082 ± 0.0043	0.0012 ± 0.00065
Ishii-machi, TOKUSHIMA	1.61	0.562	6.24	0.020 ± 0.0072	0.036 ± 0.013	0.0066 ± 0.0048	0.0011 ± 0.00077
Feb. 2004							
Shingu, WAKAYAMA	0.636	0.385	2.54	0.27 ± 0.021	0.70 ± 0.054	0.0008 ± 0.0042	0.0003 ± 0.0016
(Root vegetables)							
May 2003							
Tahara-machi, AICHI	0.755	0.150	3.41	0.026 ± 0.0068	0.18 ± 0.045	0.0000 ± 0.0031	0.00000 ± 0.00092
Koshi-machi, KUMAMOTO	0.703	0.220	2.82	0.068 ± 0.0094	0.31 ± 0.043	0.0041 ± 0.0037	0.0015 ± 0.0013
Jul. 2003							
Kumatori-machi, OSAKA	0.353	0.131	1.42	0.033 ± 0.0077	0.25 ± 0.059	0.0031 ± 0.0034	0.0022 ± 0.0024
Oda, SHIMANE	0.655	0.157	2.73	0.37 ± 0.020	2.4 ± 0.13	0.010 ± 0.0036	0.0037 ± 0.0013
Aug. 2003							
Eniwa, HOKKAIDO	0.544	0.140	2.42	0.066 ± 0.010	0.47 ± 0.074	0.0032 ± 0.0034	0.0013 ± 0.0014
Mutsu, AOMORI	0.860	0.0465	4.00	0.0088 ± 0.0064	0.19 ± 0.14	0.011 ± 0.0045	0.0028 ± 0.0011
Oct. 2003							
Tamayama-mura, IWATE	0.386	0.180	1.59	0.047 ± 0.0070	0.26 ± 0.039	0.0089 ± 0.0030	0.0056 ± 0.0019
Utsunomiya, TOCHIGI	0.406	0.191	1.68	0.089 ± 0.011	0.47 ± 0.056	0.0077 ± 0.0038	0.0046 ± 0.0022
Saku, NAGANO	0.547	0.178	2.32	0.039 ± 0.010	0.22 ± 0.057	0.018 ± 0.0050	0.0078 ± 0.0021
Nov. 2003							
Sannohe-machi, AOMORI	0.468	0.211	1.96	0.091 ± 0.012	0.43 ± 0.059	0.028 ± 0.0060	0.014 ± 0.0031
Fukushima, FUKUSHIMA	0.498	0.209	1.99	0.039 ± 0.0095	0.19 ± 0.045	0.0000 ± 0.0038	0.0000 ± 0.0019
Mito, IBARAKI	0.695	0.532	2.40	0.074 ± 0.011	0.14 ± 0.021	0.011 ± 0.0042	0.0045 ± 0.0017
Chiba, CHIBA	0.615	0.339	2.58	0.12 ± 0.014	0.36 ± 0.041	0.0051 ± 0.0044	0.0020 ± 0.0017

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90 (Bq/kg wet)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/kg wet)	Cs-137 (Bq/g K)
Kosugi-machi, TOYAMA	0.392	0.147	1.64	0.024 ± 0.0072	0.17 ± 0.049	0.0042 ± 0.0037	0.0025 ± 0.0023
Mikuni-machi, FUKUI	0.462	0.177	1.99	0.024 ± 0.0071	0.14 ± 0.040	0.0034 ± 0.0040	0.0017 ± 0.0020
Gotenba, SHIZUOKA	0.487	0.222	1.91	0.047 ± 0.0093	0.21 ± 0.042	0.053 ± 0.0075	0.028 ± 0.0039
Hamamatsu, SHIZUOKA	0.604	0.182	2.63	0.036 ± 0.0096	0.20 ± 0.053	0.0000 ± 0.0036	0.0000 ± 0.0014
Meiwa-machi, MIE	0.503	0.320	2.12	0.051 ± 0.010	0.16 ± 0.032	0.0055 ± 0.0043	0.0026 ± 0.0020
Azuchi-machi, SHIGA	0.465	0.133	2.19	0.16 ± 0.016	1.2 ± 0.12	0.0000 ± 0.0036	0.0000 ± 0.0017
Kasai, HYOGO	0.500	0.148	2.19	0.029 ± 0.0079	0.19 ± 0.053	0.0000 ± 0.0032	0.0000 ± 0.0014
Kokufu-machi, TOTTORI	0.589	0.242	2.50	0.087 ± 0.011	0.36 ± 0.045	0.0017 ± 0.0034	0.0007 ± 0.0013
Hiroshima, HIROSHIMA	0.597	0.234	2.61	0.064 ± 0.011	0.27 ± 0.049	0.0000 ± 0.0034	0.0000 ± 0.0013
Takamatsu, KAGAWA	0.543	0.207	2.48	0.015 ± 0.0076	0.071 ± 0.037	0.0000 ± 0.0027	0.0000 ± 0.0011
Shime-machi, FUKUOKA	0.494	0.238	1.93	0.061 ± 0.012	0.26 ± 0.050	0.027 ± 0.0060	0.014 ± 0.0031
Saga, SAGA	0.607	0.222	2.71	0.041 ± 0.0090	0.19 ± 0.040	0.0000 ± 0.0038	0.0000 ± 0.0014
Usa, OITA	0.792	0.208	3.40	0.040 ± 0.0087	0.19 ± 0.042	0.0008 ± 0.0034	0.0002 ± 0.0010
Takanabe-machi, MIYAZAKI	0.696	0.193	3.14	0.094 ± 0.013	0.48 ± 0.065	0.0036 ± 0.0038	0.0011 ± 0.0012
Dec. 2003							
Maebashi, GUNMA	0.488	0.431	1.93	0.019 ± 0.0074	0.044 ± 0.017	0.0055 ± 0.0041	0.0028 ± 0.0021
Takane-machi, YAMANASHI	0.698	0.505	2.66	0.11 ± 0.014	0.22 ± 0.028	0.0000 ± 0.0034	0.0000 ± 0.0013
Kakamigahara, GIFU	0.440	0.218	1.74	0.025 ± 0.0083	0.11 ± 0.038	0.0023 ± 0.0038	0.0013 ± 0.0022
Haibara-machi, NARA	0.536	0.209	2.36	0.041 ± 0.0081	0.20 ± 0.039	0.0014 ± 0.0032	0.0006 ± 0.0014
Nankoku, KOCHI	0.524	0.354	2.15	0.047 ± 0.0097	0.13 ± 0.027	0.0058 ± 0.0046	0.0027 ± 0.0022
Kaimon-machi, KAGOSHIMA	0.609	0.234	2.39	0.076 ± 0.010	0.32 ± 0.043	0.018 ± 0.0047	0.0074 ± 0.0020
Jan. 2004							
Yuya-machi, YAMAGUCHI	0.671	0.294	2.36	0.056 ± 0.0082	0.19 ± 0.028	0.011 ± 0.0037	0.0049 ± 0.0016
Ishii-machi, TOKUSHIMA	0.470	0.204	1.73	0.018 ± 0.0070	0.088 ± 0.034	0.0030 ± 0.0041	0.0017 ± 0.0024
Feb. 2004							
Shingu, WAKAYAMA	0.427	0.267	1.64	0.041 ± 0.010	0.15 ± 0.037	0.0004 ± 0.0037	0.0002 ± 0.0023

(11)-2

Strontium-90 and Cesium-137 in Vegetable(consuming districts)
(from Apr.2003 to Mar.2004)

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

Location	Ash	Ca	K	Sr-90		Cs-137	
	(%)	(g/kg wet)	(g/kg wet)	(Bq/kg wet)	(Bq/g Ca)	(Bq/kg wet)	(Bq/g K)
(Leafy vegetables)							
Jun.2003							
Niigata,NIIGATA	2.36	1.00	10.1	0.019 ± 0.0083	0.019 ± 0.0083	0.0000 ± 0.0031	0.00000 ± 0.00031
Jul.2003							
Rifu-machi,MIYAGI	1.65	0.656	6.56	0.11 ± 0.013	0.17 ± 0.020	0.0008 ± 0.0039	0.00012 ± 0.00060
Sep.2003							
Saitama,SAITAMA	1.95	0.580	8.53	0.026 ± 0.0080	0.045 ± 0.014	0.050 ± 0.0073	0.0058 ± 0.00086
Kanazawa,ISHIKAWA	1.66	0.252	7.43	0.028 ± 0.0079	0.11 ± 0.031	0.0077 ± 0.0043	0.0010 ± 0.00058
Oct.2003							
Akita,AKITA	0.614	0.528	2.29	0.028 ± 0.0078	0.052 ± 0.015	0.0097 ± 0.0040	0.0042 ± 0.0017
Yamagata,YAMAGATA	1.95	0.541	8.87	0.025 ± 0.0080	0.047 ± 0.015	0.0000 ± 0.0035	0.00000 ± 0.00040
Shinjuku,TOKYO	1.58	0.473	7.36	0.052 ± 0.0094	0.11 ± 0.020	0.0055 ± 0.0043	0.00075 ± 0.00058
Nov.2003							
Kyoto,KYOTO	1.50	0.717	5.95	0.044 ± 0.0091	0.061 ± 0.013	0.0000 ± 0.0038	0.00000 ± 0.00063
Osaka,OSAKA	1.68	0.525	7.37	0.039 ± 0.0097	0.075 ± 0.019	0.0000 ± 0.0038	0.00000 ± 0.00052
Matsuyama,EHIME	1.82	0.465	7.96	0.034 ± 0.010	0.074 ± 0.022	0.012 ± 0.0045	0.0015 ± 0.00057
Yonashiro-machi,OKINAWA	0.954	0.484	3.48	0.0092 ± 0.0066	0.019 ± 0.014	0.0000 ± 0.0032	0.00000 ± 0.00091
Dec.2003							
Okayama,OKAYAMA	1.55	0.649	6.51	0.027 ± 0.0083	0.042 ± 0.013	0.0072 ± 0.0047	0.0011 ± 0.00072
Jan.2004							
Chigasaki,KANAGAWA	1.84	0.433	7.99	0.054 ± 0.011	0.13 ± 0.025	0.015 ± 0.0054	0.0018 ± 0.00067
Nagasaki,NAGASAKI	1.68	0.718	6.42	0.043 ± 0.0099	0.059 ± 0.014	0.018 ± 0.0059	0.0028 ± 0.00093
(Root vegetables)							
Sep.2003							
Rifu-machi,MIYAGI	0.561	0.149	2.43	3.3 ± 0.06	22 ± 0.4	0.016 ± 0.0042	0.0065 ± 0.0017
Saitama,SAITAMA	0.367	0.337	1.01	0.34 ± 0.021	1.0 ± 0.06	0.091 ± 0.0087	0.090 ± 0.0086
Kanazawa,ISHIKAWA	0.467	0.155	1.91	0.10 ± 0.012	0.66 ± 0.080	0.013 ± 0.0044	0.0070 ± 0.0023
Oct.2003							
Akita,AKITA	0.524	0.221	2.19	0.10 ± 0.012	0.47 ± 0.053	0.0081 ± 0.0040	0.0037 ± 0.0018
Yamagata,YAMAGATA	0.511	0.163	2.06	0.028 ± 0.0084	0.17 ± 0.051	0.019 ± 0.0050	0.0094 ± 0.0024
Shinjuku,TOKYO	0.408	0.147	1.63	0.076 ± 0.010	0.52 ± 0.070	0.0017 ± 0.0029	0.0011 ± 0.0018

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90 (Bq/kg wet)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/kg wet)	Cs-137 (Bq/g K)
Nov. 2003							
Niigata, NIIGATA	0.455	0.194	1.70	0.0000 ± 0.0044	0.000 ± 0.023	0.017 ± 0.0051	0.010 ± 0.0030
Kyoto, KYOTO	0.529	0.171	2.18	0.022 ± 0.0073	0.13 ± 0.043	0.021 ± 0.0061	0.0096 ± 0.0028
Osaka, OSAKA	0.498	0.147	2.16	0.012 ± 0.0072	0.078 ± 0.049	0.0000 ± 0.0037	0.0000 ± 0.0017
Dec. 2003							
Okayama, OKAYAMA	0.533	0.209	2.20	0.061 ± 0.012	0.29 ± 0.057	0.0000 ± 0.0035	0.0000 ± 0.0016
Jan. 2004							
Chigasaki, KANAGAWA	0.601	0.191	2.57	0.049 ± 0.010	0.26 ± 0.054	0.0000 ± 0.0031	0.0000 ± 0.0012
Nagasaki, NAGASAKI	0.415	0.184	1.61	0.075 ± 0.013	0.41 ± 0.069	0.0016 ± 0.0043	0.0010 ± 0.0026
Feb. 2004							
Yonashiro-machi, OKINAWA	0.556	0.361	2.31	0.0000 ± 0.0058	0.000 ± 0.016	0.0000 ± 0.0035	0.0000 ± 0.0015

(12)Strontium-90 and Cesium-137 in Tea (Japanese tea)
(from Apr.2003 to Mar.2004)
Table (12) : Strontium-90 and Cesium-137 in Tea (Japanese tea)

Location	Ash (%)	Ca (g/kg)	K (g/kg)	Sr-90 (Bq/kg)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/kg)	Cs-137 (Bq/g K)
Apr.2003							
Mifune-machi,KUMAMOTO	4.92	2.08	17.8	0.12 ± 0.029	0.058 ± 0.014	0.038 ± 0.017	0.0022 ± 0.00095
Miyakonojo,MIYAZAKI	5.30	2.19	18.2	0.091 ± 0.028	0.042 ± 0.013	0.87 ± 0.052	0.048 ± 0.0028
Kawaminami-machi,MIYAZAKI	5.25	1.74	18.1	0.19 ± 0.038	0.11 ± 0.022	1.4 ± 0.06	0.079 ± 0.0036
May 2003							
Shirakawa-machi,GIFU	4.48	2.04	17.0	0.29 ± 0.042	0.14 ± 0.021	0.075 ± 0.020	0.0044 ± 0.0012
Ikeda-machi,GIFU	4.48	2.28	16.6	0.24 ± 0.040	0.10 ± 0.017	0.13 ± 0.023	0.0081 ± 0.0014
Syuzenji-machi,SHIZUOKA*	1.36	0.622	5.03	0.27 ± 0.019	0.43 ± 0.031	0.055 ± 0.0077	0.011 ± 0.0015
Iwata,SHIZUOKA*	1.28	0.528	4.74	0.046 ± 0.0088	0.088 ± 0.017	0.0091 ± 0.0043	0.0019 ± 0.00091
Kameyama,MIE	5.21	2.63	18.8	0.83 ± 0.064	0.32 ± 0.024	0.068 ± 0.019	0.0036 ± 0.00099
Odai-machi,MIE	5.06	2.17	17.9	0.27 ± 0.040	0.13 ± 0.018	0.093 ± 0.021	0.0052 ± 0.0012
Uji,KYOTO	5.43	2.77	20.6	0.42 ± 0.047	0.15 ± 0.017	0.000 ± 0.012	0.00000 ± 0.00060
Kaya-machi,KYOTO	4.81	2.87	17.6	0.68 ± 0.059	0.24 ± 0.020	0.12 ± 0.022	0.0069 ± 0.0013
Asagiri-machi,KUMAMOTO	4.88	2.79	16.7	0.33 ± 0.043	0.12 ± 0.015	0.15 ± 0.024	0.0089 ± 0.0014
Chiran-machi,KAGOSHIMA	5.62	2.19	19.8	0.12 ± 0.033	0.053 ± 0.015	1.4 ± 0.07	0.070 ± 0.0034
Jun.2003							
Iruma,SAITAMA	5.11	2.11	18.3	0.20 ± 0.033	0.096 ± 0.016	0.21 ± 0.027	0.011 ± 0.0015
Tokorozawa,SAITAMA	5.48	2.36	18.9	0.16 ± 0.033	0.067 ± 0.014	0.23 ± 0.029	0.012 ± 0.0016
Nara,NARA	4.71	2.14	17.1	0.30 ± 0.037	0.14 ± 0.017	0.29 ± 0.030	0.017 ± 0.0018
Nara,NARA	5.36	2.40	18.9	0.32 ± 0.044	0.13 ± 0.018	0.063 ± 0.020	0.0033 ± 0.0010
Nachikatsuura-machi,WAKAYAMA	5.33	2.45	18.7	1.4 ± 0.08	0.56 ± 0.035	0.48 ± 0.040	0.025 ± 0.0021
Miyanojo-machi,KAGOSHIMA	5.48	2.48	19.3	0.33 ± 0.046	0.13 ± 0.019	0.50 ± 0.042	0.026 ± 0.0022

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

(13)Strontium-90 and Cesium-137 in Sea fish
(from Apr.2003 to Mar.2004)
Table (13) : Strontium-90 and Cesium-137 in Sea fish

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90 (Bq/kg wet)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/kg wet)	Cs-137 (Bq/g K)
(Ammodytes personatus)							
Apr.2003							
Kobe,HYOGO	2.28	2.93	3.85	0.0000 ± 0.0058	0.0000 ± 0.0020	0.041 ± 0.0067	0.011 ± 0.0017
(Branchiostegus sp.)							
Nov.2003							
Nagasaki,NAGASAKI	1.02	0.242	3.27	0.0007 ± 0.0055	0.003 ± 0.023	0.11 ± 0.010	0.033 ± 0.0030
(Hexagrammos otakii)							
Sep.2003							
Soma,FUKUSHIMA	1.35	0.616	3.74	0.0019 ± 0.0052	0.0030 ± 0.0084	0.13 ± 0.011	0.034 ± 0.0029
(Katsuwonus pelamis)							
May 2003							
Tosa,KOCHI	1.26	0.102	3.94	0.0000 ± 0.0062	0.000 ± 0.060	0.23 ± 0.014	0.059 ± 0.0035
(Mugil cephalus cephalus)							
Aug.2003							
Morodomi-machi,SAGA	1.36	0.530	4.20	0.0090 ± 0.0060	0.017 ± 0.011	0.059 ± 0.0079	0.014 ± 0.0019
Dec.2003							
Ushimado-machi,OKAYAMA	1.48	0.707	3.55	0.028 ± 0.011	0.039 ± 0.015	0.058 ± 0.0093	0.016 ± 0.0026
(Oncorhynchus keta)							
Sep.2003							
Urakawa-machi,HOKKAIDO	1.39	0.667	3.96	0.0052 ± 0.0057	0.0079 ± 0.0086	0.081 ± 0.0090	0.020 ± 0.0023
(Pleuronectidae)							
Jul.2003							
Rifu-machi,MIYAGI	3.76	9.24	2.82	0.0086 ± 0.0075	0.00093 ± 0.00081	0.068 ± 0.0081	0.024 ± 0.0029
Nov.2003							
Mutsu-bay,AOMORI	1.25	0.341	3.60	0.0021 ± 0.0058	0.006 ± 0.017	0.082 ± 0.0088	0.023 ± 0.0024
Niigata,NIIGATA	1.32	0.880	3.43	0.0000 ± 0.0043	0.0000 ± 0.0048	0.077 ± 0.0086	0.022 ± 0.0025
Fukui,FUKUI	1.21	0.914	2.88	0.0027 ± 0.0057	0.0029 ± 0.0063	0.094 ± 0.0094	0.033 ± 0.0033
Aji-machi,KAGAWA	2.08	3.14	4.49	0.0034 ± 0.0051	0.0011 ± 0.0016	0.038 ± 0.0064	0.0086 ± 0.0014
Feb.2004							
Otake,HIROSHIMA	3.25	8.07	3.01	0.010 ± 0.0065	0.0013 ± 0.00080	0.047 ± 0.0073	0.016 ± 0.0024

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90 (Bq/kg wet)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/kg wet)	Cs-137 (Bq/g K)
(Pterocaesio diagramma)							
Nov. 2003							
Yonashiro-machi, OKINAWA	4.76	12.2	4.06	0.019 ± 0.0070	0.0016 ± 0.00057	0.092 ± 0.0093	0.023 ± 0.0023
(Sardinops sp.)							
Aug. 2003							
Yamagata, YAMAGATA	2.47	5.59	1.92	0.0076 ± 0.0061	0.0014 ± 0.0011	0.053 ± 0.0071	0.027 ± 0.0037
Jan. 2004							
Nagano, NAGANO	3.16	6.03	2.51	0.0000 ± 0.0048	0.00000 ± 0.00080	0.080 ± 0.0086	0.032 ± 0.0034
(Scomber australasicus)							
Feb. 2004							
Chikura-machi, CHIBA	1.51	0.129	4.08	0.0076 ± 0.0054	0.059 ± 0.042	0.11 ± 0.010	0.027 ± 0.0025
(Scomber sp.)							
Aug. 2003							
Iyonada, EHIME	1.21	0.448	4.01	0.0060 ± 0.0063	0.013 ± 0.014	0.080 ± 0.0088	0.020 ± 0.0022
Nov. 2003							
Kyoto, KYOTO	1.01	0.199	1.81	0.017 ± 0.0073	0.084 ± 0.036	0.077 ± 0.0084	0.042 ± 0.0047
Osaka, OSAKA	1.27	0.172	2.41	0.0000 ± 0.0051	0.000 ± 0.030	0.080 ± 0.0086	0.033 ± 0.0036
Feb. 2004							
Sakaiminato, TOTTORI	1.79	1.71	3.42	0.011 ± 0.0066	0.0066 ± 0.0038	0.10 ± 0.010	0.031 ± 0.0029
(Sebastes inermis)							
Mar. 2004							
Yamaguchi, YAMAGUCHI	3.82	9.97	3.02	0.018 ± 0.0063	0.0018 ± 0.00063	0.15 ± 0.012	0.048 ± 0.0039
(Sebastiscus marmoratus)							
May 2003							
Hamada, SHIMANE	5.89	18.0	2.67	0.019 ± 0.0069	0.0010 ± 0.00038	0.089 ± 0.0094	0.033 ± 0.0035
(Seriola quinqueradiata)							
Sep. 2003							
Monzen-machi, ISHIKAWA	1.55	0.818	5.12	0.0006 ± 0.0052	0.0007 ± 0.0063	0.12 ± 0.010	0.023 ± 0.0020
(Sillago sp.)							
Jun. 2003							
Minamichita-machi, AICHI	3.21	7.70	2.59	0.0095 ± 0.0057	0.0012 ± 0.00074	0.053 ± 0.0075	0.020 ± 0.0029
(Sparidae)							
May 2003							

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90 (Bq/kg wet)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/kg wet)	Cs-137 (Bq/g K)
Kiinagashima-machi,MIE	1.51	0.293	4.70	0.0041 ± 0.0065	0.014 ± 0.022	0.14 ± 0.011	0.030 ± 0.0023
Jul.2003							
Fukuoka,FUKUOKA	1.37	0.499	4.38	0.0021 ± 0.0050	0.004 ± 0.010	0.16 ± 0.012	0.037 ± 0.0027
Sep.2003							
Oga,AKITA	1.38	1.12	3.72	0.0000 ± 0.0046	0.0000 ± 0.0041	0.11 ± 0.010	0.030 ± 0.0027
(Spratelloides gracilis)							
Nov.2003							
Akune,KAGOSHIMA	2.95	5.85	3.59	0.0055 ± 0.0055	0.00094 ± 0.00094	0.11 ± 0.010	0.029 ± 0.0028
(Trachurus japonicus)							
Oct.2003							
Odawara,KANAGAWA	1.26	0.177	4.06	0.0000 ± 0.0049	0.000 ± 0.028	0.15 ± 0.011	0.036 ± 0.0028
(Trachurus sp.)							
Hachijo-machi,TOKYO	1.82	1.93	4.33	0.0053 ± 0.0053	0.0028 ± 0.0028	0.15 ± 0.011	0.034 ± 0.0026
Nov.2003							
Shizuoka,SHIZUOKA	3.31	7.53	2.50	0.0032 ± 0.0052	0.00042 ± 0.00069	0.10 ± 0.010	0.041 ± 0.0039
Shingu,WAKAYAMA	1.19	0.704	3.32	0.0037 ± 0.0065	0.0052 ± 0.0092	0.11 ± 0.010	0.035 ± 0.0031

(14)Strontium-90 and Cesium-137 in Freshwater fish
(from Apr.2003 to Mar.2004)
Table (14) : Strontium-90 and Cesium-137 in Freshwater fish

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90 (Bq/kg wet)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/kg wet)	Cs-137 (Bq/g K)
(Carassius sp.)							
Jul.2003							
Barato-lake,HOKKAIDO	4.21	12.4	2.08	0.40 ± 0.026	0.032 ± 0.0021	0.037 ± 0.0065	0.018 ± 0.0031
Nov.2003							
Niigata,NIIGATA	1.14	0.774	3.11	0.055 ± 0.010	0.071 ± 0.013	0.11 ± 0.010	0.037 ± 0.0033
Dec.2003							
Mikata-machi,FUKUI	2.02	3.39	3.19	0.17 ± 0.016	0.051 ± 0.0046	0.12 ± 0.011	0.038 ± 0.0034
Uji,KYOTO	4.41	12.7	2.62	0.50 ± 0.030	0.039 ± 0.0023	0.016 ± 0.0050	0.0061 ± 0.0019
(Cyprinus carpio)							
May 2003							
Kasumigaura-lake,IBARAKI	1.09	0.196	3.94	0.0000 ± 0.0053	0.000 ± 0.027	0.20 ± 0.013	0.050 ± 0.0033
Aug.2003							
Hachirogata-machi,AKITA	3.75	11.2	2.17	0.75 ± 0.033	0.066 ± 0.0030	0.076 ± 0.0085	0.035 ± 0.0039
Oct.2003							
Syobara,HIROSHIMA	1.04	0.373	3.49	0.021 ± 0.0075	0.057 ± 0.020	0.095 ± 0.0094	0.027 ± 0.0027
(Hypomesus nipponensis)							
Dec.2003							
Suwa-lake,NAGANO	2.72	7.27	2.15	0.099 ± 0.012	0.014 ± 0.0017	0.080 ± 0.0085	0.037 ± 0.0039
(Salmo gairdneri)							
Oct.2003							
Kumagaya,SAITAMA	1.16	0.124	4.13	0.0000 ± 0.0051	0.000 ± 0.041	0.30 ± 0.016	0.074 ± 0.0038
(Salvelinus leucomaenis)							
Sep.2003							
Fukushima,FUKUSHIMA	1.26	0.454	4.24	0.011 ± 0.0069	0.025 ± 0.015	0.12 ± 0.011	0.029 ± 0.0025

(15)Strontium-90 and Cesium-137 in Shellfish
(from Apr.2003 to Mar.2004)
Table (15) : Strontium-90 and Cesium-137 in Shellfish

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90 (Bq/kg wet)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/kg wet)	Cs-137 (Bq/g K)
(Crassostrea gigas)							
Feb.2004							
Hatsukaichi,HIROSHIMA	2.11	0.843	2.53	0.0045 ± 0.0066	0.0053 ± 0.0078	0.013 ± 0.0049	0.0051 ± 0.0019
(Mytilus edulis)							
Jun.2003							
Mutsu,AOMORI	2.05	0.385	1.11	0.0044 ± 0.0054	0.011 ± 0.014	0.017 ± 0.0047	0.016 ± 0.0043
(Patinopecten yessoensis)							
Nov.2003							
Mutsu-bay,AOMORI	2.14	0.265	2.78	0.0083 ± 0.0069	0.031 ± 0.026	0.024 ± 0.0055	0.0086 ± 0.0020
Feb.2004							
Yamada-machi,IWATE	2.27	0.448	3.62	0.0035 ± 0.0059	0.008 ± 0.013	0.018 ± 0.0049	0.0051 ± 0.0013
(Tapes philippinarum)							
Apr.2003							
Ise,MIE	1.52	0.604	1.88	0.0000 ± 0.0049	0.0000 ± 0.0081	0.015 ± 0.0047	0.0080 ± 0.0025
Konagai-machi,NAGASAKI	2.10	0.653	1.81	0.0050 ± 0.0066	0.008 ± 0.010	0.012 ± 0.0045	0.0065 ± 0.0025
Jun.2003							
Minamichita-machi,AICHI	2.01	0.640	3.22	0.018 ± 0.011	0.028 ± 0.017	0.020 ± 0.0052	0.0061 ± 0.0016
(Turbo(Batillus) cornutus)							
Apr.2003							
Ryotsu,NIIGATA	4.04	0.529	2.81	0.0040 ± 0.0086	0.008 ± 0.016	0.037 ± 0.0083	0.013 ± 0.0030
Jun.2003							
Sakata,YAMAGATA	2.60	1.17	2.19	0.0070 ± 0.0067	0.0060 ± 0.0057	0.032 ± 0.0058	0.015 ± 0.0027
Monzen-machi,ISHIKAWA	3.12	2.02	2.18	0.0000 ± 0.0092	0.0000 ± 0.0045	0.028 ± 0.0050	0.013 ± 0.0023

(16) Strontium-90 and Cesium-137 in Seaweeds
(from Apr. 2003 to Mar. 2004)
Table (16) : Strontium-90 and Cesium-137 in Seaweeds

Location	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90 (Bq/kg wet)	Sr-90 (Bq/g Ca)	Cs-137 (Bq/kg wet)	Cs-137 (Bq/g K)
(Undaria pinnatifida)							
Apr. 2003							
Ryotsu, NIIGATA	2.75	0.651	7.92	0.021 ± 0.0074	0.032 ± 0.011	0.016 ± 0.0051	0.0021 ± 0.00065
Monzen-machi, ISHIKAWA	3.92	0.854	6.39	0.0029 ± 0.0068	0.0034 ± 0.0079	0.017 ± 0.0048	0.0027 ± 0.00074
May 2003							
Fukaura-machi, AOMORI	2.70	0.809	7.34	0.021 ± 0.0075	0.026 ± 0.0093	0.025 ± 0.0052	0.0034 ± 0.00071
Mutsu, AOMORI	3.21	0.791	8.08	0.025 ± 0.0078	0.032 ± 0.0099	0.032 ± 0.0058	0.0040 ± 0.00071
Jun. 2003							
Sakata, YAMAGATA	3.06	1.21	6.05	0.028 ± 0.0089	0.023 ± 0.0074	0.026 ± 0.0054	0.0042 ± 0.00090
Feb. 2004							
Minamichita-machi, AICHI	2.63	0.806	7.79	0.026 ± 0.0079	0.033 ± 0.0098	0.021 ± 0.0052	0.0027 ± 0.00066
Toba, MIE	1.89	0.682	5.36	0.036 ± 0.0080	0.053 ± 0.012	0.014 ± 0.0047	0.0026 ± 0.00088
Hiroshima, HIROSHIMA	1.79	0.581	4.54	0.024 ± 0.0070	0.042 ± 0.012	0.0087 ± 0.0044	0.0019 ± 0.00096
Shimabara, NAGASAKI	1.87	0.575	4.17	0.021 ± 0.0074	0.036 ± 0.013	0.024 ± 0.0051	0.0057 ± 0.0012

Sea fish

Japanease name	English name	Scientific name
Ainame	Fat greenling	Hexagrammos otakii
Aji	Horse mackerel	Trachurus sp.
Amadai	Tilefish	Branchiostegus sp.
Bora	Striped mullet	Mugil cephalus cephalus
Fukuragi	Japanese amberjack	Seriola quinqueradiata
Gomasaba	Spotted chub mackerel	Scomber australasicus
Ikanago	Japanese sand lance	Ammodytes personatus
Iwashi	Sardine	Sardinops sp.
Karei	Righteye flounders	Pleuronectidae
Kasago	Marbled rockfish	Sebastiscus marmoratus
Katsuo	Skipjack	Katsuwonus pelamis
Kibinago	Banded blue sprat	Spratelloides gracilis
Kisu	Smelt-whitings	Sillago sp.
Maaji	Yellowfin horse mackerel	Trachurus japonicus
Mebaru	Darkbanded rockfish	Sebastes inermis
Saba	Mackerel	Scomber sp.
Sake	Salmon	Oncorhynchus keta
Tai	Sea bream	Sparidae
Takasago	Goldenbanded fusilier	Pterocaesio diagramma

Fresh water fish

Japanease name	English name	Scientific name
Funa	Crucian carp	Carassius sp.
Iwana	Japanese char	Salvelinus leucomaenis
Koi	Carp	Cyprinus carpio
Nijimasu	Rainbow trout	Salmo gairdneri
Wakasagi	Pond smelt	Hypomesus nipponensis

Shellfish

Japanease name	English name	Scientific name
Asari	Japanese littleneck	Tapes philippinarum
Hotate	Yezo scallop	Patinopecten yessoensis
Kaki	Japanese oyster	Crassostrea gigas
Murasakiigai	Blue mussel	Mytilus edulis
Sazae	Horned turban	Turbo(Batillus) cornutus

Seaweeds

Japanease name	English name	Scientific name
Wakame	Sea mustard	Undaria pinnatifida