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RADIOACTIVITY SURVEY DATA in Japan

= Environmental and Dietary Materials =

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Contents

	Page
Environmental and Dietary Materials	
1. Sampling and retrieval	1
2. Preparation of samples for radiochemical analysis	3
3. Radiochemical separation of strontium-90 and cesium-137	3
4. Determination of stable strontium, calcium and potassium	4
5. Counting	4
6. Results	6
(1) Strontium-90 and Cesium-137 in Rain and dry fallout (for domestic program)	6
(2) Strontium-90 and Cesium-137 in Airborne dust	24
(3) Strontium-90 and Cesium-137 in Service water	29
(4) Strontium-90 and Cesium-137 in Fresh water	33
(5) Strontium-90 and Cesium-137 in Soil	34
(6) Strontium-90 and Cesium-137 in Seawater	38
(7) Strontium-90 and Cesium-137 in Sea sediments	39
(8) Strontium-90 and Cesium-137 in Total diet	40
(9) -1 Strontium-90 and Cesium-137 in Rice (producing districts)	46
-2 Strontium-90 and Cesium-137 in Rice (consuming districts)	48
(10)-1 Strontium-90 and Cesium-137 in Milk (producing districts)	49
-2 Strontium-90 and Cesium-137 in Milk (consuming districts)	52
-3 Strontium-90 and Cesium-137 in Milk (powdered milk)	54
(11)-1 Strontium-90 and Cesium-137 in Vegetables (producing districts)	55
-2 Strontium-90 and Cesium-137 in Vegetables (consuming districts)	58
(12) Strontium-90 and Cesium-137 in Tea (Japanese tea)	60
(13) Strontium-90 and Cesium-137 in Sea fish	61
(14) Strontium-90 and Cesium-137 in Freshwater fish	64
(15) Strontium-90 and Cesium-137 in Shellfish	65
(16) Strontium-90 and Cesium-137 in Seaweeds	66

Environmental and Dietary Materials

1. Sampling and retrieval

(1) Rain and dry fallout

The collector, which was stainless steel tray, 5000 cm² 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 were 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 works at a flow rate more than 3000 m³ 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 were 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, after removal of and then passed through 2 mm sieve after removal 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 a porcelain dish.

(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 a porcelain dish.

b. Shellfish

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

dried at 105 °C and reduced to ashes at 450 °C in a porcelain dish.

c. Seaweeds

Edible seaweeds were collected. After

removing sand and adhering materials, the samples were dried at 105 °C and reduced to ashes at 450 °C in a porcelain dish

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 °C. 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 made alkaline 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. After decantation the precipitate was dissolved in nitric acid and fuming nitric acid was added to precipitate the strontium. After rejecting the supernatant, the precipitate was dissolved in water. The solution was evaporated to dryness. 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. Barium carrier solution, acetic acid and ammonium acetate solution were added. The mixture was heated. The barium chromate was precipitated by adding potassium chromate solution. The supernatant was filtrated and the precipitate was rejected. The solution was made alkaline with aqueous ammonia. The strontium carbonate was precipitated by adding saturated ammonia carbonate solution. The supernatant was filtered and rejected. The precipitate was dissolved in hydrochloric acid and iron carrier solution was added. The solution was made alkaline with carbonate-free aqueous ammonia and heated to complete the precipitation. The precipitation was filtered and rejected. The strontium carbonate was precipitated from the supernatant by adding ammonium carbonate solution and dried and weighed to determine strontium recovery. The precipitate was dissolved in hydrochloric acid. 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. Counting was started immediately.

(2) Cesium-137

After precipitating strontium carbonate, the supernatant was made acidity by adding 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. Ethylenediamine tetra acetic acid 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. Chloroplatinic acid was added to the solution to produce cesium precipitate. The precipitate was filtered through a filter paper and weighed to determine the cesium recovery. The precipitate was with mylar and mounted on a planchette. Counting was started.

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 digested with hydrofluoric acid and nitric acid. The extract was made up to an appropriate volume with dilute hydrochloric acid. Calcium was

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

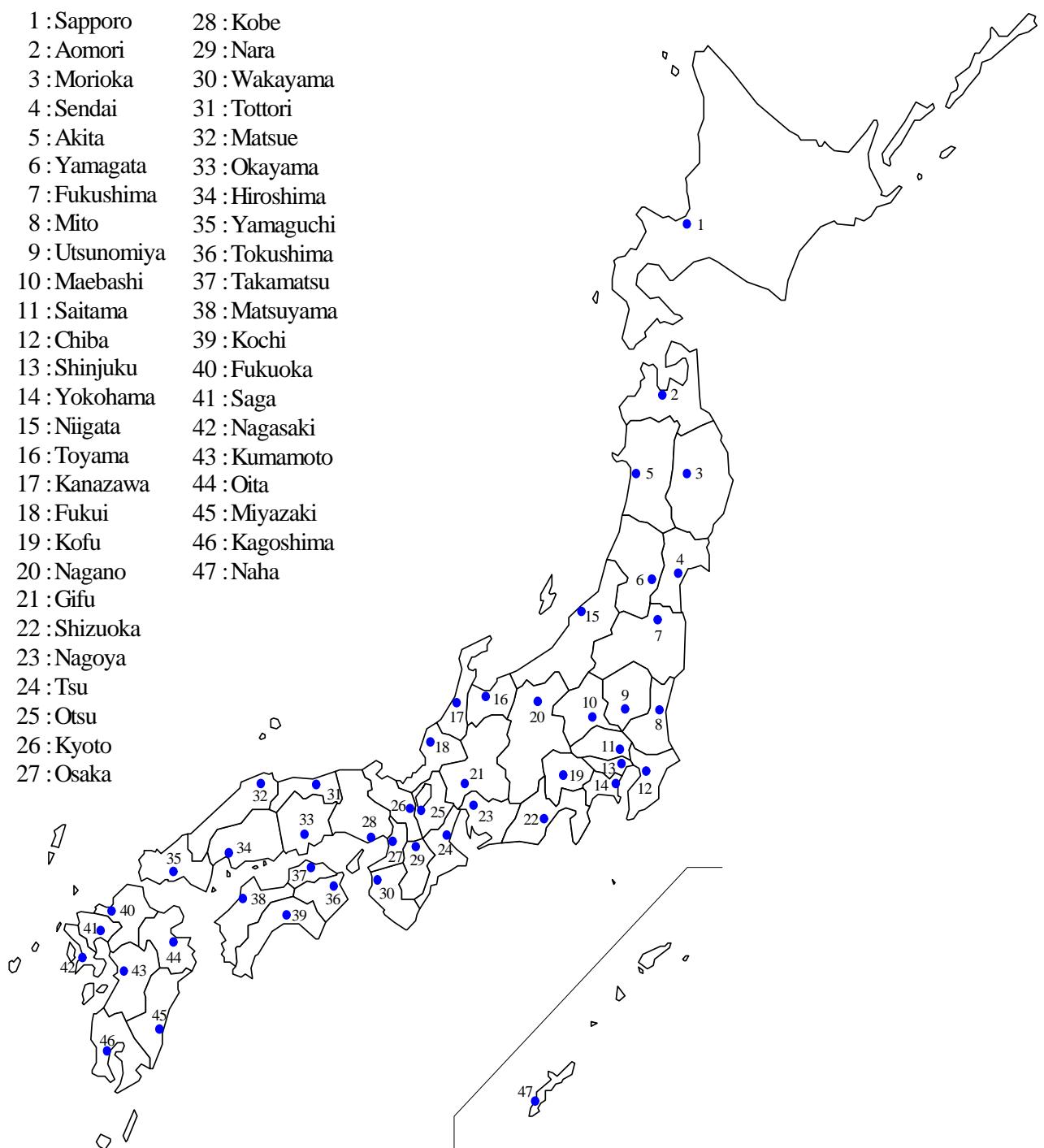


Figure 1. Sampling Locations in Japan

6. Results

(1) Strontium-90 and Cesium-137 in Rain and dry fallout (from Apr.2002 to Mar.2003)

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.2002						
Sapporo,HOKKAIDO	30	29.5	0.036	± 0.014	0.088	± 0.013
Aomori,AOMORI	30	40.3	0.018	± 0.010	0.15	± 0.015
Morioka,IWATE	30	47.5	0.029	± 0.0096	0.13	± 0.015
Onagawa-machi,MIYAGI	30	44.5	0.022	± 0.015	0.072	± 0.011
Akita,AKITA	30	95.3	0.050	± 0.0096	0.20	± 0.017
Yamagata,YAMAGATA	30	42.7	0.021	± 0.013	0.084	± 0.012
Okuma-machi,FUKUSHIMA	30	62.5	0.032	± 0.013	0.12	± 0.014
Mito,IBARAKI	30	45.0	0.019	± 0.0076	0.067	± 0.013
Kawachi-machi,TOCHIGI	31	63.8	0.013	± 0.013	0.075	± 0.013
Maebashi,GUNMA	30	68.5	0.014	± 0.0084	0.092	± 0.013
Saitama,SAITAMA	30	52.7	0.035	± 0.0095	0.072	± 0.0097
Ichihara,CHIBA	30	58.6	0.021	± 0.015	0.046	± 0.011
Chiba,CHIBA	31	55.5	0.043	± 0.0095	0.081	± 0.014
Shinjuku,TOKYO	30	63.8	0.021	± 0.010	0.035	± 0.011
Yokohama,KANAGAWA	32	119.4	0.000	± 0.014	0.093	± 0.013
Niigata,NIIGATA	29	59.3	0.035	± 0.014	0.16	± 0.016
Kosugi-machi,TOYAMA	30	125.6	0.053	± 0.016	0.14	± 0.014
Kanazawa,ISHIKAWA	30	134.0	0.050	± 0.013	0.11	± 0.014
Fukui,FUKUI	27	152.1	0.048	± 0.075	0.070	± 0.050
Kofu,YAMANASHI	30	44.5	0.000	± 0.013	0.021	± 0.0093
Nagano,NAGANO	30	50.7	0.043	± 0.016	0.034	± 0.0097
Kakamigahara,GIFU	30	170.0	0.074	± 0.028	0.024	± 0.0093
Shizuoka,SHIZUOKA	31	80.0	0.021	± 0.015	0.044	± 0.010
Nagoya,AICHI	30	107.5	0.059	± 0.011	0.031	± 0.0098
Yokkaichi,MIE	30	143.0	0.014	± 0.013	0.048	± 0.011
Otsu,SHIGA	30	133	0.012	± 0.014	0.030	± 0.010
Kyoto,KYOTO	26	90.5	0.004	± 0.014	0.037	± 0.011
Osaka,OSAKA	33	82.15	0.000	± 0.016	0.024	± 0.010
Nara,NARA	30	100.9	0.024	± 0.015	0.052	± 0.012

Location	Duration (Days)	Precipitation (mm)	Sr-90		Cs-137	
				(MBq/km ²)		(MBq/km ²)
Wakayama, WAKAYAMA	30	63.5	0.016	±	0.0084	0.033
Tottori, TOTTORI	30	80.6	0.048	±	0.0095	0.028
Matsue, SHIMANE	30	97.7	0.076	±	0.0077	0.24
Okayama, OKAYAMA	30	146.3	0.028	±	0.013	0.034
Hiroshima, HIROSHIMA	30	176.86	0.012	±	0.011	0.026
Yamaguchi, YAMAGUCHI	30	178.5	0.022	±	0.012	0.054
Ishii-machi, TOKUSHIMA	29	69	0.027	±	0.010	0.021
Takamatsu, KAGAWA	30	62.5	0.027	±	0.012	0.016
Matsuyama, EHIME	30	99.5	0.011	±	0.013	0.048
Kochi, KOCHI	30	177.0	0.038	±	0.014	0.044
Dazaifu, FUKUOKA	30	178.2	0.018	±	0.0072	0.051
Saga, SAGA	30	220.8	0.0091	±	0.0074	0.025
Nagasaki, NAGASAKI	30	192.5	0.020	±	0.0098	0.036
Uto, KUMAMOTO	30	190.8	0.005	±	0.016	0.023
Oita, OITA	30	142.0	0.004	±	0.011	0.055
Miyazaki, MIYAZAKI	30	214.2	0.014	±	0.0068	0.057
Kagoshima, KAGOSHIMA	32	246.0	0.023	±	0.014	0.037
Yonashiro-machi, OKINAWA	30	82.0	0.032	±	0.018	0.032
May 2002						
Sapporo, HOKKAIDO	30	42.5	0.023	±	0.013	0.051
Aomori, AOMORI	33	81.0	0.004	±	0.011	0.035
Morioka, IWATE	31	100.5	0.012	±	0.0077	0.012
Onagawa-machi, MIYAGI	33	121.0	0.000	±	0.014	0.0006
Akita, AKITA	33	124.8	0.022	±	0.0082	0.035
Yamagata, YAMAGATA	33	89.3	0.000	±	0.011	0.088
Okuma-machi, FUKUSHIMA	33	134.0	0.038	±	0.015	0.028
Mito, IBARAKI	33	129.50	0.024	±	0.0076	0.011
Kawachi-machi, TOCHIGI	32	108.6	0.036	±	0.014	0.0000
Maebashi, GUNMA	30	115.5	0.0000	±	0.0073	0.0039
Saitama, SAITAMA	33	89.4	0.0099	±	0.0079	0.0057
Ichihara, CHIBA	33	84.4	0.000	±	0.013	0.019
Chiba, CHIBA	32	81.4	0.022	±	0.0098	0.025
Shinjuku, TOKYO	33	100.7	0.0065	±	0.0088	0.0000
Yokohama, KANAGAWA	31	144.7	0.006	±	0.017	0.016

Location	Duration (Days)	Precipitation (mm)	Sr-90		Cs-137	
				(MBq/km ²)		(MBq/km ²)
Niigata, NIIGATA	33	94.5	0.000	± 0.011	0.0096	± 0.0085
Kosugi-machi, TOYAMA	30	180.8	0.017	± 0.011	0.0084	± 0.0074
Kanazawa, ISHIKAWA	30	156.5	0.058	± 0.030	0.021	± 0.014
Fukui, FUKUI	33	137.4	0.22	± 0.069	0.027	± 0.044
Kofu, YAMANASHI	33	60.0	0.002	± 0.011	0.0000	± 0.0082
Kakamigahara, GIFU	33	132.5	0.027	± 0.012	0.026	± 0.0095
Shizuoka, SHIZUOKA	32	161.5	0.009	± 0.015	0.080	± 0.012
Nagoya, AICHI	30	90.2	0.018	± 0.0092	0.016	± 0.0092
Yokkaichi, MIE	33	149.5	0.019	± 0.014	0.0089	± 0.0083
Otsu, SHIGA	33	105.3	0.000	± 0.011	0.0046	± 0.0084
Kyoto, KYOTO	34	109.0	0.047	± 0.016	0.024	± 0.010
Osaka, OSAKA	33	86.41	0.014	± 0.012	0.0058	± 0.0086
Kobe, HYOGO	31	123.2	0.028	± 0.014	0.0000	± 0.0079
Nara, NARA	33	115.9	0.000	± 0.015	0.017	± 0.0094
Wakayama, WAKAYAMA	33	95.5	0.020	± 0.013	0.0000	± 0.0083
Matsue, SHIMANE	33	117.0	0.025	± 0.0059	0.022	± 0.0066
Okayama, OKAYAMA	33	108.1	0.000	± 0.011	0.0065	± 0.0078
Hiroshima, HIROSHIMA	30	175.46	0.031	± 0.015	0.016	± 0.0096
Yamaguchi, YAMAGUCHI	31	190.5	0.004	± 0.011	0.0023	± 0.0083
Ishii-machi, TOKUSHIMA	34	82.3	0.0067	± 0.0098	0.0080	± 0.0082
Takamatsu, KAGAWA	33	77.5	0.020	± 0.014	0.0000	± 0.0079
Matsuyama, EHIME	33	188.5	0.002	± 0.014	0.0051	± 0.0077
Kochi, KOCHI	33	261.6	0.039	± 0.015	0.043	± 0.010
Dazaifu, FUKUOKA	33	166.7	0.021	± 0.0073	0.0024	± 0.0076
Saga, SAGA	33	313.1	0.0043	± 0.0083	0.0000	± 0.0086
Nagasaki, NAGASAKI	33	183.5	0.0000	± 0.0081	0.013	± 0.0083
Uto, KUMAMOTO	33	203.9	0.008	± 0.012	0.0012	± 0.0084
Oita, OITA	33	301.0	0.017	± 0.013	0.0000	± 0.0077
Miyazaki, MIYAZAKI	33	237.9	0.009	± 0.013	0.0000	± 0.0069
Kagoshima, KAGOSHIMA	35	36.5	0.001	± 0.012	0.0000	± 0.0065
Yonashiro-machi, OKINAWA	33	125.0	0.038	± 0.016	0.0020	± 0.0091
Jun. 2002						
Sapporo, HOKKAIDO	31	67.5	0.015	± 0.012	0.025	± 0.0094
Aomori, AOMORI	28	68.8	0.0000	± 0.0092	0.0087	± 0.0076

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)	
Morioka, IWATE	30	65.0	0.011	± 0.0073	0.0024	± 0.0087	
Onagawa-machi, MIYAGI	28	92.0	0.000	± 0.014	0.0084	± 0.0076	
Akita, AKITA	28	103.4	0.0000	± 0.0075	0.0000	± 0.0081	
Yamagata, YAMAGATA	28	91.2	0.041	± 0.014	0.011	± 0.0084	
Okuma-machi, FUKUSHIMA	28	93.5	0.0000	± 0.0094	0.018	± 0.0078	
Mito, IBARAKI	28	90.00	0.026	± 0.013	0.013	± 0.010	
Kawachi-machi, TOCHIGI	28	92.7	0.015	± 0.013	0.0036	± 0.0084	
Maebashi, GUNMA	31	122.5	0.0079	± 0.0080	0.015	± 0.0093	
Saitama, SAITAMA	28	142.8	0.009	± 0.011	0.0091	± 0.0061	
Ichihara, CHIBA	28	200.1	0.000	± 0.012	0.0084	± 0.0088	
Chiba, CHIBA	28	127.8	0.013	± 0.0079	0.019	± 0.0090	
Shinjuku, TOKYO	28	167.7	0.017	± 0.011	0.0018	± 0.0092	
Yokohama, KANAGAWA	28	184.3	0.014	± 0.010	0.0000	± 0.0078	
Niigata, NIIGATA	28	60.9	0.008	± 0.013	0.026	± 0.0095	
Kosugi-machi, TOYAMA	31	127.5	0.023	± 0.013	0.011	± 0.0076	
Kanazawa, ISHIKAWA	31	116.0	0.027	± 0.012	0.0000	± 0.0079	
Fukui, FUKUI	28	74.6	0.000	± 0.056	0.000	± 0.045	
Kofu, YAMANASHI	28	75.5	0.0000	± 0.0092	0.011	± 0.0092	
Nagano, NAGANO	28	46.8	0.029	± 0.018	0.012	± 0.0078	
Kakamigahara, GIFU	28	178.5	0.0000	± 0.0069	0.0068	± 0.0090	
Shizuoka, SHIZUOKA	28	281.0	0.015	± 0.0082	0.057	± 0.011	
Nagoya, AICHI	31	127.1	0.019	± 0.0098	0.022	± 0.0093	
Yokkaichi, MIE	28	153.5	0.062	± 0.010	0.0017	± 0.0080	
Otsu, SHIGA	28	79.8	0.004	± 0.012	0.0000	± 0.0080	
Kyoto, KYOTO	28	74.0	0.007	± 0.011	0.0000	± 0.0068	
Osaka, OSAKA	28	104.86	0.081	± 0.034	0.0000	± 0.0091	
Kobe, HYOGO	28	52.4	0.017	± 0.0076	0.0000	± 0.0086	
Nara, NARA	28	108.8	0.000	± 0.020	0.015	± 0.010	
Wakayama, WAKAYAMA	29	106.5	0.017	± 0.0049	0.0072	± 0.0081	
Matsue, SHIMANE	28	109.3	0.0046	± 0.0051	0.010	± 0.0058	
Okayama, OKAYAMA	28	92.8	0.000	± 0.011	0.0000	± 0.0067	
Hiroshima, HIROSHIMA	31	157.28	0.018	± 0.012	0.0006	± 0.0084	
Yamaguchi, YAMAGUCHI	30	190.5	0.015	± 0.0077	0.0000	± 0.0085	
Ishii-machi, TOKUSHIMA	27	113.8	0.004	± 0.010	0.0000	± 0.0082	

Location	Duration (Days)	Precipitation (mm)	Sr-90		Cs-137	
				(MBq/km ²)		(MBq/km ²)
Takamatsu, KAGAWA	28	91.0	0.009	± 0.013	0.0023	± 0.0082
Matsuyama, EHIME	28	169.0	0.008	± 0.011	0.0023	± 0.0082
Kochi, KOCHI	28	226.4	0.055	± 0.017	0.022	± 0.010
Dazaifu, FUKUOKA	28	154.9	0.017	± 0.0081	0.0058	± 0.0077
Saga, SAGA	28	144.7	0.0089	± 0.0079	0.0000	± 0.0082
Nagasaki, NAGASAKI	28	152.0	0.0000	± 0.0093	0.0000	± 0.0074
Uto, KUMAMOTO	28	254.2	0.004	± 0.012	0.0000	± 0.0074
Oita, OITA	28	184.0	0.019	± 0.015	0.0095	± 0.0078
Miyazaki, MIYAZAKI	28	162.5	0.027	± 0.014	0.0030	± 0.0076
Kagoshima, KAGOSHIMA	28	379.5	0.008	± 0.013	0.0040	± 0.0079
Yonashiro-machi, OKINAWA	29	227.0	0.050	± 0.018	0.013	± 0.0089
Jul. 2002						
Sapporo, HOKKAIDO	31	122.5	0.0000	± 0.0092	0.013	± 0.0091
Aomori, AOMORI	31	156.8	0.024	± 0.012	0.0000	± 0.0073
Morioka, IWATE	31	263.2	0.007	± 0.012	0.0058	± 0.0088
Onagawa-machi, MIYAGI	32	321.5	0.000	± 0.014	0.0028	± 0.0072
Akita, AKITA	31	213.5	0.028	± 0.014	0.0036	± 0.0085
Yamagata, YAMAGATA	31	245.5	0.013	± 0.0073	0.022	± 0.0087
Okuma-machi, FUKUSHIMA	31	309.5	0.0000	± 0.0093	0.0056	± 0.0074
Mito, IBARAKI	31	116.50	0.010	± 0.0078	0.025	± 0.0094
Kawachi-machi, TOCHIGI	32	297.0	0.034	± 0.027	0.000	± 0.012
Maebashi, GUNMA	31	124	0.011	± 0.0072	0.0000	± 0.0074
Saitama, SAITAMA	31	140.8	0.0059	± 0.0092	0.0093	± 0.0061
Ichihara, CHIBA	31	82.0	0.014	± 0.012	0.0030	± 0.0081
Chiba, CHIBA	31	105.7	0.014	± 0.0081	0.029	± 0.0097
Shinjuku, TOKYO	31	117.4	0.0095	± 0.0098	0.0000	± 0.0085
Yokohama, KANAGAWA	34	202.6	0.0071	± 0.0081	0.0000	± 0.0076
Niigata, NIIGATA	31	396.5	0.000	± 0.013	0.012	± 0.0083
Kosugi-machi, TOYAMA	31	404.5	0.016	± 0.012	0.0006	± 0.0068
Kanazawa, ISHIKAWA	31	388.0	0.0035	± 0.0060	0.0044	± 0.0087
Fukui, FUKUI	31	292.2	0.038	± 0.074	0.036	± 0.045
Kofu, YAMANASHI	31	310.5	0.000	± 0.011	0.012	± 0.0082
Nagano, NAGANO	31	216.6	0.006	± 0.015	0.012	± 0.0077
Kakamigahara, GIFU	31	181.5	0.017	± 0.019	0.0000	± 0.0089

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)	
Shizuoka, SHIZUOKA	31	398.5	0.022	± 0.011	0.026	± 0.0089	
Nagoya, AICHI	31	107.9	0.023	± 0.0096	0.0000	± 0.0079	
Yokkaichi, MIE	31	244.0	0.017	± 0.0074	0.0000	± 0.0080	
Otsu, SHIGA	31	135.3	0.000	± 0.014	0.0006	± 0.0076	
Kyoto, KYOTO	30	187.0	0.000	± 0.010	0.017	± 0.0085	
Osaka, OSAKA	31	132.78	0.018	± 0.012	0.0083	± 0.0085	
Kobe, HYOGO	33	97.8	0.002	± 0.012	0.0000	± 0.0084	
Nara, NARA	31	159.2	0.012	± 0.015	0.0012	± 0.0082	
Hawai-machi, TOTTORI	31	186.3	0.014	± 0.012	0.000	± 0.010	
Matsue, SHIMANE	31	185.3	0.058	± 0.0080	0.18	± 0.014	
Okayama, OKAYAMA	31	63.3	0.010	± 0.013	0.0000	± 0.0072	
Hiroshima, HIROSHIMA	31	141.48	0.021	± 0.0076	0.0060	± 0.0078	
Yamaguchi, YAMAGUCHI	31	157.5	0.027	± 0.0082	0.0048	± 0.0077	
Ishii-machi, TOKUSHIMA	31	206	0.0034	± 0.0092	0.010	± 0.0082	
Takamatsu, KAGAWA	31	103.0	0.000	± 0.012	0.0000	± 0.0064	
Matsuyama, EHIME	31	70.5	0.0000	± 0.0071	0.0057	± 0.0076	
Kochi, KOCHI	32	225.6	0.039	± 0.0091	0.0035	± 0.0075	
Dazaifu, FUKUOKA	31	83.4	0.0000	± 0.0067	0.019	± 0.0086	
Saga, SAGA	31	191.7	0.012	± 0.0063	0.0000	± 0.0080	
Nagasaki, NAGASAKI	31	232.5	0.0000	± 0.0094	0.0000	± 0.0070	
Uto, KUMAMOTO	31	146.7	0.011	± 0.0081	0.0000	± 0.0064	
Oita, OITA	31	335.5	0.000	± 0.016	0.0000	± 0.0067	
Miyazaki, MIYAZAKI	31	350.2	0.021	± 0.0080	0.0000	± 0.0081	
Kagoshima, KAGOSHIMA	33	464.5	0.000	± 0.012	0.013	± 0.0087	
Yonashiro-machi, OKINAWA	30	286.5	0.021	± 0.0075	0.008	± 0.011	
Aug. 2002							
Sapporo, HOKKAIDO	32	105.0	0.032	± 0.012	0.0055	± 0.0085	
Aomori, AOMORI	32	261.1	0.003	± 0.011	0.0000	± 0.0074	
Morioka, IWATE	32	276.5	0.029	± 0.013	0.0000	± 0.0080	
Onagawa-machi, MIYAGI	33	61.0	0.0000	± 0.0069	0.0000	± 0.0064	
Akita, AKITA	32	315.2	0.008	± 0.012	0.0096	± 0.0082	
Yamagata, YAMAGATA	32	95.0	0.010	± 0.0079	0.021	± 0.0093	
Okuma-machi, FUKUSHIMA	32	92.5	0.0010	± 0.0096	0.0023	± 0.0074	
Mito, IBARAKI	32	73.5	0.012	± 0.011	0.053	± 0.011	

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)
Kawachi-machi, TOCHIGI	31	253.5	0.010	± 0.0066	0.016	± 0.0085
Maebashi, GUNMA	32	287.5	0.018	± 0.0082	0.0052	± 0.0085
Saitama, SAITAMA	32	96.9	0.012	± 0.0089	0.0068	± 0.0058
Ichihara, CHIBA	32	120.8	0.004	± 0.010	0.0006	± 0.0079
Chiba, CHIBA	32	51.6	0.0000	± 0.0072	0.0081	± 0.0083
Yokohama, KANAGAWA	29	182.0	0.008	± 0.011	0.0000	± 0.0077
Niigata, NIIGATA	32	122.4	0.014	± 0.014	0.0000	± 0.0070
Kosugi-machi, TOYAMA	32	29.1	0.028	± 0.013	0.0073	± 0.0074
Kanazawa, ISHIKAWA	32	39.0	0.011	± 0.0068	0.0000	± 0.0083
Fukui, FUKUI	32	57.0	0.000	± 0.058	0.022	± 0.043
Kofu, YAMANASHI	32	76.0	0.000	± 0.011	0.013	± 0.0082
Nagano, NAGANO	33	22.5	0.004	± 0.014	0.0063	± 0.0073
Kakamigahara, GIFU	31	63.5	0.019	± 0.0060	0.0000	± 0.0085
Shizuoka, SHIZUOKA	32	153.5	0.010	± 0.011	0.017	± 0.0086
Nagoya, AICHI	32	18.5	0.013	± 0.012	0.0006	± 0.0078
Yokkaichi, MIE	32	105.5	0.019	± 0.0074	0.0036	± 0.0084
Otsu, SHIGA	32	64.6	0.002	± 0.013	0.0035	± 0.0082
Kyoto, KYOTO	30	64.5	0.0000	± 0.0098	0.010	± 0.0078
Osaka, OSAKA	32	51.06	0.0000	± 0.0094	0.0097	± 0.0075
Kobe, HYOGO	30	48.7	0.0000	± 0.0087	0.0000	± 0.0064
Nara, NARA	32	169.3	0.028	± 0.012	0.0000	± 0.0084
Wakayama, WAKAYAMA	32	105	0.038	± 0.023	0.0000	± 0.0084
Hawai-machi, TOTTORI	32	75.3	0.014	± 0.020	0.0000	± 0.0074
Matsue, SHIMANE	32	61.8	0.056	± 0.0085	0.27	± 0.016
Okayama, OKAYAMA	32	78.4	0.017	± 0.014	0.010	± 0.0077
Hiroshima, HIROSHIMA	29	62.1	0.017	± 0.012	0.0000	± 0.0072
Yamaguchi, YAMAGUCHI	31	64.5	0.011	± 0.013	0.0023	± 0.0081
Ishii-machi, TOKUSHIMA	32	54.5	0.013	± 0.017	0.0006	± 0.0074
Takamatsu, KAGAWA	32	22.0	0.022	± 0.015	0.0000	± 0.0071
Matsuyama, EHIME	32	25.0	0.0074	± 0.0067	0.0000	± 0.0072
Kochi, KOCHI	31	481.3	0.049	± 0.015	0.015	± 0.0090
Dazaifu, FUKUOKA	32	87.5	0.0036	± 0.0070	0.0000	± 0.0071
Saga, SAGA	32	86.0	0.0004	± 0.0054	0.0000	± 0.0076
Nagasaki, NAGASAKI	32	208.5	0.019	± 0.0077	0.0000	± 0.0075

Location	Duration (Days)	Precipitation (mm)	Sr-90		Cs-137	
				(MBq/km ²)		(MBq/km ²)
Uto, KUMAMOTO	32	94.0	0.017	±	0.012	0.0000
Oita, OITA	32	64.5	0.004	±	0.010	0.0080
Miyazaki, MIYAZAKI	32	117.1	0.018	±	0.013	0.0052
Kagoshima, KAGOSHIMA	30	114.0	0.003	±	0.013	0.012
Yonashiro-machi, OKINAWA	32	38.5	0.018	±	0.011	0.015
Sep. 2002						
Sapporo, HOKKAIDO	29	75.5	0.012	±	0.011	0.014
Aomori, AOMORI	29	122.9	0.000	±	0.011	0.0000
Morioka, IWATE	29	100.8	0.029	±	0.015	0.011
Onagawa-machi, MIYAGI	27	101.0	0.0081	±	0.0063	0.0000
Akita, AKITA	29	56.6	0.019	±	0.013	0.0017
Yamagata, YAMAGATA	29	46.2	0.029	±	0.012	0.0096
Okuma-machi, FUKUSHIMA	29	177.0	0.0010	±	0.0096	0.0000
Mito, IBARAKI	29	211.5	0.023	±	0.012	0.0031
Kawachi-machi, TOCHIGI	29	160.7	0.0050	±	0.0073	0.014
Maebashi, GUNMA	29	269.5	0.0000	±	0.0065	0.0006
Saitama, SAITAMA	29	200.7	0.0007	±	0.0082	0.0060
Ichihara, CHIBA	29	303.0	0.000	±	0.011	0.0000
Chiba, CHIBA	29	295.0	0.0000	±	0.0068	0.0023
Shinjuku, TOKYO	29	221.3	0.005	±	0.011	0.0000
Yokohama, KANAGAWA	31	241.6	0.015	±	0.0086	0.013
Niigata, NIIGATA	29	67.17	0.0052	±	0.0099	0.014
Kosugi-machi, TOYAMA	29	228.3	0.031	±	0.014	0.013
Kanazawa, ISHIKAWA	28	124.5	0.0094	±	0.0072	0.0000
Fukui, FUKUI	29	134.1	0.000	±	0.064	0.012
Kofu, YAMANASHI	29	68.5	0.000	±	0.010	0.0000
Nagano, NAGANO	28	130.4	0.0073	±	0.0090	0.0000
Kakamigahara, GIFU	30	125.5	0.000	±	0.015	0.006
Shizuoka, SHIZUOKA	29	246.5	0.0075	±	0.0063	0.0000
Nagoya, AICHI	29	131.8	0.029	±	0.015	0.028
Yokkaichi, MIE	29	193.5	0.036	±	0.014	0.0000
Otsu, SHIGA	29	78.3	0.033	±	0.015	0.0000
Kyoto, KYOTO	31	59.5	0.013	±	0.012	0.0000
Osaka, OSAKA	30	83.74	0.000	±	0.019	0.0000

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)		
Kobe, HYOGO	31	77.2	0.014	±	0.0068	0.0000	±	0.0080
Nara, NARA	29	108.0	0.000	±	0.015	0.0000	±	0.0089
Wakayama, WAKAYAMA	30	100.5	0.041	±	0.019	0.0045	±	0.0087
Hawai-machi, TOTTORI	29	141.3	0.013	±	0.010	0.022	±	0.0088
Matsue, SHIMANE	29	64.3	0.0022	±	0.0050	0.028	±	0.0068
Okayama, OKAYAMA	29	56.5	0.014	±	0.013	0.0000	±	0.0079
Hiroshima, HIROSHIMA	31	136.3	0.033	±	0.013	0.0006	±	0.0082
Yamaguchi, YAMAGUCHI	30	162.5	0.0049	±	0.0058	0.0000	±	0.0073
Ishii-machi, TOKUSHIMA	29	70.6	0.000	±	0.012	0.032	±	0.0097
Takamatsu, KAGAWA	29	61.0	0.0034	±	0.0079	0.0057	±	0.0076
Matsuyama, EHIME	29	69.0	0.0012	±	0.0065	0.0000	±	0.0068
Kochi, KOCHI	29	181.2	0.059	±	0.018	0.0000	±	0.0075
Dazaifu, FUKUOKA	29	210.5	0.013	±	0.0081	0.0093	±	0.0080
Saga, SAGA	29	77.3	0.0075	±	0.0065	0.0000	±	0.0082
Nagasaki, NAGASAKI	29	64.5	0.0005	±	0.0063	0.0000	±	0.0074
Uto, KUMAMOTO	29	53.0	0.000	±	0.011	0.0039	±	0.0069
Oita, OITA	29	53.0	0.012	±	0.011	0.0000	±	0.0079
Miyazaki, MIYAZAKI	29	189.6	0.000	±	0.011	0.010	±	0.0081
Kagoshima, KAGOSHIMA	31	40.5	0.005	±	0.013	0.0029	±	0.0077
Yonashiro-machi, OKINAWA	30	238.0	0.017	±	0.0081	0.031	±	0.011
Oct. 2002								
Sapporo, HOKKAIDO	31	135.0	0.038	±	0.014	0.017	±	0.011
Aomori, AOMORI	31	124.2	0.019	±	0.0070	0.0000	±	0.0080
Morioka, IWATE	31	178.0	0.0000	±	0.0059	0.0000	±	0.0084
Onagawa-machi, MIYAGI	31	121.5	0.026	±	0.011	0.0000	±	0.0075
Akita, AKITA	31	220.3	0.010	±	0.014	0.0007	±	0.0081
Yamagata, YAMAGATA	31	189.8	0.015	±	0.013	0.0087	±	0.0085
Okuma-machi, FUKUSHIMA	31	258.0	0.041	±	0.013	0.0098	±	0.0090
Mito, IBARAKI	31	108.0	0.016	±	0.0068	0.036	±	0.010
Kawachi-machi, TOCHIGI	31	172.3	0.032	±	0.0077	0.0069	±	0.0077
Maebashi, GUNMA	31	158.5	0.000	±	0.013	0.0057	±	0.0066
Saitama, SAITAMA	31	173.4	0.0030	±	0.0047	0.0092	±	0.0062
Ichihara, CHIBA	31	200.0	0.000	±	0.011	0.024	±	0.0094
Chiba, CHIBA	31	166.5	0.010	±	0.012	0.0000	±	0.0071

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)	
Shinjuku, TOKYO	31	192.2	0.024	± 0.011	0.0040	± 0.0082	
Yokohama, KANAGAWA	31	264.6	0.015	± 0.0077	0.0006	± 0.0080	
Niigata, NIIGATA	31	237.16	0.015	± 0.011	0.0000	± 0.0077	
Kosugi-machi, TOYAMA	31	238.5	0.000	± 0.013	0.0030	± 0.0078	
Kanazawa, ISHIKAWA	32	313.5	0.022	± 0.012	0.022	± 0.0097	
Fukui, FUKUI	31	250.0	0.068	± 0.036	0.000	± 0.040	
Kofu, YAMANASHI	35	131.0	0.0000	± 0.0058	0.0000	± 0.0075	
Nagano, NAGANO	31	115.0	0.013	± 0.0082	0.0017	± 0.0078	
Kakamigahara, GIFU	31	172.5	0.000	± 0.018	0.019	± 0.0080	
Shizuoka, SHIZUOKA	31	289.0	0.0087	± 0.0096	0.0000	± 0.0076	
Nagoya, AICHI	31	152.6	0.015	± 0.0074	0.013	± 0.0083	
Yokkaichi, MIE	31	176.0	0.000	± 0.011	0.0000	± 0.0069	
Otsu, SHIGA	31	124.4	0.0046	± 0.0069	0.0000	± 0.0073	
Kyoto, KYOTO	32	117.0	0.000	± 0.011	0.010	± 0.0079	
Osaka, OSAKA	34	114.2	0.000	± 0.017	0.0058	± 0.0096	
Kobe, HYOGO	31	80.5	0.006	± 0.011	0.0000	± 0.0077	
Nara, NARA	31	147.7	0.013	± 0.014	0.0012	± 0.0089	
Wakayama, WAKAYAMA	35	114.5	0.0071	± 0.0094	0.0030	± 0.0078	
Hawai-machi, TOTTORI	31	147.2	0.0000	± 0.0075	0.013	± 0.0094	
Matsue, SHIMANE	31	151.5	0.0095	± 0.0074	0.012	± 0.0055	
Okayama, OKAYAMA	31	41.3	0.000	± 0.012	0.0000	± 0.0067	
Hiroshima, HIROSHIMA	32	66.7	0.017	± 0.0075	0.0000	± 0.0076	
Yamaguchi, YAMAGUCHI	31	91.5	0.046	± 0.014	0.0035	± 0.0075	
Ishii-machi, TOKUSHIMA	31	151.1	0.000	± 0.014	0.047	± 0.011	
Takamatsu, KAGAWA	31	21.0	0.0093	± 0.0096	0.0063	± 0.0074	
Matsuyama, EHIME	31	26.5	0.000	± 0.012	0.0000	± 0.0068	
Kochi, KOCHI	31	84.4	0.052	± 0.0096	0.0081	± 0.0078	
Dazaifu, FUKUOKA	31	116.5	0.0000	± 0.0067	0.0057	± 0.0076	
Saga, SAGA	31	94.9	0.011	± 0.0069	0.0000	± 0.0081	
Nagasaki, NAGASAKI	31	132.5	0.024	± 0.0073	0.0024	± 0.0083	
Uto, KUMAMOTO	31	81.8	0.014	± 0.0072	0.0090	± 0.0077	
Oita, OITA	31	67.5	0.0030	± 0.0073	0.0000	± 0.0073	
Miyazaki, MIYAZAKI	31	141.7	0.022	± 0.014	0.021	± 0.0078	
Kagoshima, KAGOSHIMA	31	119.0	0.000	± 0.010	0.005	± 0.011	

Location	Duration (Days)	Precipitation (mm)	Sr-90		Cs-137	
				(MBq/km ²)		(MBq/km ²)
Yonashiro-machi, OKINAWA	30	148.5	0.010	±	0.011	0.004
Nov.2002						± 0.011
Sapporo, HOKKAIDO	28	145.5	0.015	±	0.010	0.0088
Aomori, AOMORI	31	153.9	0.002	±	0.012	0.036
Morioka, IWATE	31	133.4	0.0026	±	0.0072	0.0066
Onagawa-machi, MIYAGI	31	78.5	0.000	±	0.011	0.0039
Akita, AKITA	31	296.5	0.022	±	0.015	0.071
Yamagata, YAMAGATA	31	142.5	0.027	±	0.015	0.0099
Okuma-machi, FUKUSHIMA	31	51.5	0.016	±	0.010	0.0000
Mito, IBARAKI	31	24.0	0.036	±	0.0073	0.030
Kawachi-machi, TOCHIGI	31	37.3	0.0096	±	0.0067	0.0000
Maebashi, GUNMA	29	20	0.028	±	0.014	0.021
Saitama, SAITAMA	31	31.4	0.0012	±	0.0047	0.0061
Ichihara, CHIBA	31	35.8	0.016	±	0.013	0.014
Chiba, CHIBA	31	28.8	0.035	±	0.015	0.012
Shinjuku, TOKYO	31	24.5	0.009	±	0.011	0.0053
Yokohama, KANAGAWA	29	27.0	0.021	±	0.0092	0.0040
Niigata, NIIGATA	31	296.94	0.015	±	0.010	0.027
Kosugi-machi, TOYAMA	28	433.2	0.013	±	0.015	0.055
Kanazawa, ISHIKAWA	28	445.5	0.040	±	0.014	0.046
Fukui, FUKUI	31	414.5	0.021	±	0.040	0.089
Kofu, YAMANASHI	27	17.5	0.023	±	0.0072	0.0000
Nagano, NAGANO	31	45.4	0.0028	±	0.0088	0.0000
Kakamigahara, GIFU	31	53.5	0.021	±	0.012	0.0030
Shizuoka, SHIZUOKA	31	27.0	0.017	±	0.011	0.0093
Nagoya, AICHI	31	30.8	0.016	±	0.012	0.023
Yokkaichi, MIE	31	37.0	0.011	±	0.011	0.0075
Otsu, SHIGA	31	46.1	0.012	±	0.0069	0.0000
Kyoto, KYOTO	31	12.5	0.023	±	0.014	0.0082
Osaka, OSAKA	27	34.26	0.013	±	0.011	0.021
Kobe, HYOGO	29	51.0	0.019	±	0.010	0.0040
Nara, NARA	31	81.3	0.000	±	0.013	0.0000
Wakayama, WAKAYAMA	27	26.5	0.0000	±	0.0089	0.015
Hawai-machi, TOTTORI	31	188.8	0.016	±	0.0080	0.033

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)		
Matsue, SHIMANE	31	142.8	0.015	±	0.0079	0.023	±	0.0063
Okayama, OKAYAMA	31	3.2	0.035	±	0.012	0.0000	±	0.0084
Hiroshima, HIROSHIMA	30	24.0	0.011	±	0.0071	0.0062	±	0.0081
Yamaguchi, YAMAGUCHI	30	30.0	0.0000	±	0.0061	0.0022	±	0.0072
Ishii-machi, TOKUSHIMA	31	30.0	0.000	±	0.014	0.013	±	0.0091
Takamatsu, KAGAWA	31	16.5	0.000	±	0.011	0.0058	±	0.0079
Matsuyama, EHIME	31	24.0	0.000	±	0.012	0.0052	±	0.0083
Kochi, KOCHI	31	42.7	0.0042	±	0.0076	0.010	±	0.0082
Dazaifu, FUKUOKA	31	31.6	0.0000	±	0.0065	0.0034	±	0.0074
Saga, SAGA	31	79.2	0.011	±	0.0065	0.0040	±	0.0089
Nagasaki, NAGASAKI	31	133.5	0.026	±	0.0096	0.0000	±	0.0079
Uto, KUMAMOTO	31	89.6	0.016	±	0.0070	0.0000	±	0.0070
Oita, OITA	31	46.0	0.019	±	0.0083	0.0029	±	0.0079
Miyazaki, MIYAZAKI	31	72.7	0.000	±	0.011	0.0018	±	0.0072
Kagoshima, KAGOSHIMA	29	81.0	0.004	±	0.010	0.0079	±	0.0094
Yonashiro-machi, OKINAWA	31	23.0	0.004	±	0.010	0.000	±	0.011
Dec.2002								
Sapporo, HOKKAIDO	28	61.0	0.030	±	0.012	0.011	±	0.0095
Aomori, AOMORI	35	108.2	0.003	±	0.010	0.015	±	0.0083
Morioka, IWATE	35	49.8	0.0053	±	0.0075	0.0000	±	0.0081
Onagawa-machi, MIYAGI	25	24.5	0.012	±	0.0096	0.015	±	0.0087
Akita, AKITA	35	98.5	0.015	±	0.015	0.0000	±	0.0082
Yamagata, YAMAGATA	35	26.9	0.001	±	0.013	0.0041	±	0.0082
Okuma-machi, FUKUSHIMA	35	34.0	0.0078	±	0.0093	0.0041	±	0.0086
Mito, IBARAKI	35	84.5	0.0000	±	0.0092	0.0092	±	0.0086
Kawachi-machi, TOCHIGI	35	74.7	0.0020	±	0.0061	0.017	±	0.0088
Maebashi, GUNMA	37	72.5	0.000	±	0.012	0.016	±	0.0074
Saitama, SAITAMA	35	86.3	0.0096	±	0.0054	0.0080	±	0.0066
Ichihara, CHIBA	35	147.2	0.010	±	0.016	0.011	±	0.0092
Chiba, CHIBA	35	125.0	0.000	±	0.011	0.0082	±	0.0093
Shinjuku, TOKYO	35	127.2	0.0060	±	0.0098	0.0097	±	0.0085
Yokohama, KANAGAWA	28	94.6	0.018	±	0.0081	0.0000	±	0.0077
Niigata, NIIGATA	35	186.86	0.013	±	0.010	0.018	±	0.0084
Kosugi-machi, TOYAMA	28	266.6	0.009	±	0.013	0.018	±	0.0089

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)	
Kanazawa, ISHIKAWA	28	242.0	0.003	± 0.011	0.020	± 0.0094	
Fukui, FUKUI	25	222.7	0.076	± 0.053	0.018	± 0.039	
Kofu, YAMANASHI	35	71.0	0.0039	± 0.0062	0.0051	± 0.0084	
Nagano, NAGANO	35	51.5	0.0032	± 0.010	0.0000	± 0.0085	
Kakamigahara, GIFU	37	125.0	0.009	± 0.014	0.015	± 0.0084	
Shizuoka, SHIZUOKA	35	126.0	0.013	± 0.015	0.012	± 0.0081	
Nagoya, AICHI	36	112.2	0.023	± 0.013	0.027	± 0.0088	
Yokkaichi, MIE	35	116.5	0.000	± 0.011	0.0000	± 0.0072	
Otsu, SHIGA	35	78.6	0.013	± 0.0073	0.0085	± 0.0082	
Kyoto, KYOTO	25	55.5	0.010	± 0.012	0.0088	± 0.0078	
Osaka, OSAKA	35	95.93	0.0000	± 0.0092	0.020	± 0.0083	
Kobe, HYOGO	28	47.7	0.011	± 0.013	0.0018	± 0.0074	
Nara, NARA	35	104.5	0.010	± 0.012	0.0037	± 0.0091	
Wakayama, WAKAYAMA	35	47.5	0.021	± 0.012	0.0018	± 0.0079	
Hawai-machi, TOTTORI	35	216.3	0.012	± 0.0080	0.012	± 0.0088	
Matsue, SHIMANE	25	138.2	0.012	± 0.0078	0.0026	± 0.0049	
Okayama, OKAYAMA	35	60.1	0.024	± 0.012	0.0000	± 0.0077	
Hiroshima, HIROSHIMA	36	81.8	0.001	± 0.010	0.0098	± 0.0076	
Yamaguchi, YAMAGUCHI	36	105.0	0.000	± 0.010	0.0000	± 0.0075	
Ishii-machi, TOKUSHIMA	36	89.7	0.018	± 0.017	0.0000	± 0.0077	
Takamatsu, KAGAWA	35	68.0	0.000	± 0.015	0.015	± 0.0085	
Matsuyama, EHIME	35	83.0	0.002	± 0.013	0.0000	± 0.0071	
Kochi, KOCHI	35	100.0	0.005	± 0.014	0.014	± 0.0087	
Dazaifu, FUKUOKA	35	111.4	0.009	± 0.011	0.0069	± 0.0080	
Saga, SAGA	35	95.7	0.0000	± 0.0068	0.0053	± 0.0082	
Nagasaki, NAGASAKI	35	112.5	0.010	± 0.015	0.0095	± 0.0085	
Uto, KUMAMOTO	35	116.4	0.0011	± 0.0083	0.0000	± 0.0083	
Oita, OITA	35	128.0	0.0064	± 0.0079	0.0077	± 0.0084	
Miyazaki, MIYAZAKI	35	299.6	0.013	± 0.014	0.0087	± 0.0078	
Kagoshima, KAGOSHIMA	28	209.0	0.010	± 0.010	0.0097	± 0.0089	
Yonashiro-machi, OKINAWA	36	173.5	0.023	± 0.017	0.0000	± 0.0079	
Jan.2003							
Sapporo, HOKKAIDO	35	63.5	0.028	± 0.012	0.011	± 0.0096	
Aomori, AOMORI	28	67.7	0.009	± 0.011	0.027	± 0.0092	

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)	
Morioka, IWATE	28	157.9	0.033	± 0.013	0.0000	± 0.0076	
Onagawa-machi, MIYAGI	35	119.5	0.020	± 0.011	0.014	± 0.0087	
Akita, AKITA	28	187.9	0.000	± 0.014	0.019	± 0.0095	
Yamagata, YAMAGATA	28	117.2	0.013	± 0.015	0.0000	± 0.0075	
Okuma-machi, FUKUSHIMA	28	82.0	0.033	± 0.013	0.11	± 0.014	
Mito, IBARAKI	28	67.0	0.006	± 0.012	0.15	± 0.015	
Kawachi-machi, TOCHIGI	28	46.2	0.000	± 0.011	0.018	± 0.0083	
Maebashi, GUNMA	25	14.0	0.010	± 0.014	0.0000	± 0.0090	
Saitama, SAITAMA	28	42.7	0.015	± 0.0082	0.015	± 0.0064	
Ichihara, CHIBA	28	95.6	0.009	± 0.014	0.024	± 0.0096	
Chiba, CHIBA	28	75.4	0.000	± 0.011	0.011	± 0.0091	
Shinjuku, TOKYO	28	71.8	0.012	± 0.012	0.0000	± 0.0077	
Yokohama, KANAGAWA	35	133.0	0.023	± 0.014	0.017	± 0.0090	
Niigata, NIIGATA	28	107.77	0.010	± 0.010	0.013	± 0.0080	
Kosugi-machi, TOYAMA	35	280.4	0.000	± 0.015	0.020	± 0.0087	
Kanazawa, ISHIKAWA	35	342.0	0.025	± 0.013	0.0062	± 0.0087	
Fukui, FUKUI	38	322.6	0.090	± 0.070	0.025	± 0.040	
Kofu, YAMANASHI	28	68.5	0.0000	± 0.0096	0.013	± 0.011	
Nagano, NAGANO	28	43.5	0.052	± 0.016	0.0041	± 0.0092	
Kakamigahara, GIFU	27	88.0	0.014	± 0.013	0.0072	± 0.0084	
Shizuoka, SHIZUOKA	28	116.5	0.011	± 0.011	0.020	± 0.0083	
Nagoya, AICHI	27	77.1	0.000	± 0.013	0.023	± 0.0086	
Yokkaichi, MIE	28	86.5	0.000	± 0.010	0.0072	± 0.0073	
Otsu, SHIGA	28	106.9	0.000	± 0.014	0.0006	± 0.0079	
Kyoto, KYOTO	35	94.0	0.0000	± 0.0093	0.0017	± 0.0069	
Osaka, OSAKA	28	55.22	0.000	± 0.013	0.026	± 0.0090	
Kobe, HYOGO	35	59.2	0.0086	± 0.0068	0.0000	± 0.0080	
Nara, NARA	28	152.5	0.025	± 0.015	0.0000	± 0.0084	
Wakayama, WAKAYAMA	27	75.5	0.009	± 0.012	0.013	± 0.0085	
Matsue, SHIMANE	38	151.2	0.020	± 0.012	0.0071	± 0.0065	
Okayama, OKAYAMA	28	27.1	0.011	± 0.015	0.0000	± 0.0096	
Hiroshima, HIROSHIMA	25	38.3	0.029	± 0.012	0.0061	± 0.0071	
Yamaguchi, YAMAGUCHI	26	76.0	0.000	± 0.011	0.0000	± 0.0077	
Ishii-machi, TOKUSHIMA	27	42.3	0.008	± 0.018	0.0000	± 0.0085	

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)		
Takamatsu, KAGAWA	28	18.5	0.017	±	0.013	0.0000	±	0.0084
Matsuyama, EHIME	28	39.0	0.031	±	0.013	0.0000	±	0.0087
Kochi, KOCHI	28	66.3	0.012	±	0.013	0.0000	±	0.0077
Dazaifu, FUKUOKA	28	62.1	0.028	±	0.012	0.0035	±	0.0089
Saga, SAGA	28	38.1	0.010	±	0.011	0.019	±	0.0087
Nagasaki, NAGASAKI	28	49.5	0.034	±	0.015	0.0000	±	0.0078
Uto, KUMAMOTO	28	41.7	0.021	±	0.013	0.0070	±	0.0086
Oita, OITA	28	19.0	0.000	±	0.011	0.0000	±	0.0074
Miyazaki, MIYAZAKI	28	29.5	0.000	±	0.010	0.0098	±	0.0076
Kagoshima, KAGOSHIMA	35	93.0	0.011	±	0.011	0.0096	±	0.0087
Yonashiro-machi, OKINAWA	27	57.5	0.016	±	0.013	0.0062	±	0.0087
Feb.2003								
Sapporo, HOKKAIDO	28	50.5	0.037	±	0.013	0.0000	±	0.0087
Aomori, AOMORI	28	46.9	0.017	±	0.0099	0.0035	±	0.0090
Morioka, IWATE	28	69.4	0.007	±	0.013	0.0000	±	0.0076
Onagawa-machi, MIYAGI	31	94.0	0.010	±	0.012	0.0000	±	0.0080
Akita, AKITA	28	73.3	0.001	±	0.016	0.014	±	0.010
Yamagata, YAMAGATA	28	19.7	0.013	±	0.011	0.0000	±	0.0081
Mito, IBARAKI	28	35.0	0.002	±	0.013	0.024	±	0.0090
Kawachi-machi, TOCHIGI	28	76.1	0.000	±	0.013	0.0000	±	0.0065
Maebashi, GUNMA	29	9.5	0.012	±	0.013	0.056	±	0.012
Saitama, SAITAMA	28	76.3	0.0072	±	0.0079	0.013	±	0.0064
Ichihara, CHIBA	28	138.3	0.000	±	0.014	0.0000	±	0.0074
Chiba, CHIBA	28	121.1	0.020	±	0.012	0.013	±	0.0084
Shinjuku, TOKYO	28	125.1	0.000	±	0.012	0.0074	±	0.0084
Yokohama, KANAGAWA	28	57.3	0.016	±	0.013	0.0000	±	0.0069
Niigata, NIIGATA	28	67.76	0.0075	±	0.0088	0.0012	±	0.0090
Kosugi-machi, TOYAMA	28	89.6	0.013	±	0.013	0.0099	±	0.0073
Kanazawa, ISHIKAWA	28	110.5	0.013	±	0.011	0.024	±	0.0098
Kofu, YAMANASHI	29	83.5	0.0000	±	0.0084	0.018	±	0.0098
Nagano, NAGANO	28	47.2	0.008	±	0.011	0.0000	±	0.0089
Kakamigahara, GIFU	28	106.0	0.013	±	0.013	0.0000	±	0.0071
Shizuoka, SHIZUOKA	27	185.0	0.025	±	0.012	0.021	±	0.0089
Nagoya, AICHI	28	97.2	0.003	±	0.012	0.0006	±	0.0094

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)	
Yokkaichi,MIE	28	83.0	0.032	± 0.013	0.0047	± 0.0091	
Otsu,SHIGA	28	69.5	0.010	± 0.011	0.0000	± 0.0082	
Kyoto,KYOTO	27	59.5	0.014	± 0.011	0.0052	± 0.0074	
Osaka,OSAKA	29	115.68	0.032	± 0.023	0.029	± 0.012	
Kobe,HYOGO	28	63.2	0.013	± 0.012	0.0040	± 0.0072	
Nara,NARA	28	92.3	0.008	± 0.013	0.012	± 0.0096	
Wakayama,WAKAYAMA	28	59	0.006	± 0.012	0.0039	± 0.0087	
Hawai-machi,TOTTORI	28	80.6	0.012	± 0.012	0.014	± 0.0077	
Matsue,SHIMANE	28	86.4	0.0061	± 0.0092	0.028	± 0.0086	
Okayama,OKAYAMA	28	65.8	0.002	± 0.012	0.0000	± 0.0076	
Hiroshima,HIROSHIMA	28	65.7	0.018	± 0.012	0.036	± 0.0097	
Yamaguchi,YAMAGUCHI	28	107.5	0.027	± 0.012	0.0045	± 0.0078	
Ishii-machi,TOKUSHIMA	29	43.1	0.014	± 0.011	0.0036	± 0.0088	
Takamatsu,KAGAWA	28	53.5	0.0000	± 0.0098	0.0000	± 0.0066	
Matsuyama,EHIME	28	87.5	0.007	± 0.010	0.0029	± 0.0094	
Kochi,KOCHI	28	102.4	0.039	± 0.015	0.018	± 0.0091	
Dazaifu,FUKUOKA	28	115.4	0.018	± 0.011	0.0000	± 0.0088	
Saga,SAGA	28	92.3	0.015	± 0.012	0.015	± 0.0084	
Nagasaki,NAGASAKI	28	65.0	0.029	± 0.014	0.013	± 0.0086	
Uto,KUMAMOTO	28	84.4	0.007	± 0.014	0.0000	± 0.0079	
Oita,OITA	28	40.5	0.000	± 0.013	0.020	± 0.0078	
Miyazaki,MIYAZAKI	28	90.1	0.000	± 0.011	0.0090	± 0.0079	
Kagoshima,KAGOSHIMA	28	69.5	0.011	± 0.011	0.0048	± 0.0085	
Yonashiro-machi,OKINAWA	28	22.0	0.000	± 0.013	0.0092	± 0.0092	
Mar.2003							
Sapporo,HOKKAIDO	32	41.0	0.019	± 0.012	0.0061	± 0.0097	
Aomori,AOMORI	29	89.8	0.012	± 0.0096	0.018	± 0.0099	
Morioka,IWATE	29	33.6	0.041	± 0.013	0.020	± 0.0087	
Onagawa-machi,MIYAGI	28	72.5	0.000	± 0.011	0.0000	± 0.0078	
Akita,AKITA	29	101.9	0.024	± 0.015	0.019	± 0.0085	
Yamagata,YAMAGATA	29	110.5	0.024	± 0.016	0.015	± 0.0082	
Okuma-machi,FUKUSHIMA	29	124.5	0.026	± 0.011	0.020	± 0.0093	
Mito,IBARAKI	30	124.0	0.011	± 0.013	0.022	± 0.0087	
Kawachi-machi,TOCHIGI	29	67.0	0.004	± 0.010	0.0000	± 0.0069	

Location	Duration (Days)	Precipitation (mm)		Sr-90 (MBq/km ²)		Cs-137 (MBq/km ²)
Maebashi, GUNMA	31	61.0	0.028	± 0.015	0.077	± 0.013
Saitama, SAITAMA	29	81.6	0.0090	± 0.0085	0.018	± 0.0067
Chiba, CHIBA	29	101.5	0.016	± 0.012	0.028	± 0.0096
Shinjuku, TOKYO	29	96.2	0.015	± 0.013	0.014	± 0.0091
Yokohama, KANAGAWA	31	219.7	0.016	± 0.013	0.013	± 0.010
Niigata, NIIGATA	29	66.07	0.034	± 0.011	0.026	± 0.011
Kosugi-machi, TOYAMA	32	132.8	0.013	± 0.013	0.019	± 0.0081
Kanazawa, ISHIKAWA	32	172	0.004	± 0.010	0.0023	± 0.0087
Fukui, FUKUI	29	109.0	0.000	± 0.061	0.000	± 0.042
Kofu, YAMANASHI	28	50.5	0.012	± 0.010	0.0035	± 0.0081
Nagano, NAGANO	29	50.9	0.006	± 0.013	0.013	± 0.0088
Kakamigahara, GIFU	28	62.0	0.015	± 0.012	0.0000	± 0.0070
Shizuoka, SHIZUOKA	30	91.0	0.000	± 0.011	0.0087	± 0.0082
Nagoya, AICHI	29	75.5	0.022	± 0.014	0.017	± 0.011
Yokkaichi, MIE	29	113.5	0.037	± 0.014	0.020	± 0.0089
Otsu, SHIGA	29	94.3	0.018	± 0.015	0.0000	± 0.0067
Kyoto, KYOTO	33	108.5	0.001	± 0.010	0.014	± 0.0080
Osaka, OSAKA	27	57.39	0.030	± 0.015	0.013	± 0.0091
Nara, NARA	29	174.9	0.026	± 0.011	0.0000	± 0.0088
Wakayama, WAKAYAMA	29	73.5	0.026	± 0.013	0.0000	± 0.0075
Hawai-machi, TOTTORI	29	106.9	0.024	± 0.016	0.021	± 0.0091
Matsue, SHIMANE	31	96.0	0.011	± 0.0070	0.083	± 0.0092
Okayama, OKAYAMA	29	54.7	0.006	± 0.012	0.0060	± 0.0085
Hiroshima, HIROSHIMA	32	91.7	0.014	± 0.011	0.026	± 0.0095
Yamaguchi, YAMAGUCHI	31	162.5	0.034	± 0.013	0.0000	± 0.0079
Ishii-machi, TOKUSHIMA	30	72.7	0.026	± 0.015	0.0000	± 0.0082
Takamatsu, KAGAWA	29	60.5	0.021	± 0.011	0.020	± 0.0087
Matsuyama, EHIME	29	88.0	0.029	± 0.013	0.0000	± 0.0088
Kochi, KOCHI	29	131.8	0.054	± 0.014	0.018	± 0.0091
Dazaifu, FUKUOKA	29	115.5	0.024	± 0.012	0.0012	± 0.0088
Saga, SAGA	29	88.2	0.000	± 0.010	0.0092	± 0.0083
Nagasaki, NAGASAKI	29	98.5	0.016	± 0.010	0.0000	± 0.0067
Uto, KUMAMOTO	29	133.6	0.014	± 0.011	0.0000	± 0.0075
Oita, OITA	29	112.0	0.000	± 0.012	0.0000	± 0.0092

Location	Duration (Days)	Precipitation (mm)	Sr-90		Cs-137	
			(MBq/km ²)	(MBq/km ²)	(MBq/km ²)	(MBq/km ²)
Miyazaki, MIYAZAKI	29	234.2	0.008	± 0.013	0.0006	± 0.0069
Kagoshima, KAGOSHIMA	31	154.0	0.022	± 0.011	0.0074	± 0.0088
Yonashiro-machi, OKINAWA	30	52.0	0.000	± 0.019	0.005	± 0.012

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

(from Apr.2002 to Mar.2003)

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.	~ Jun.	06	0.0012	±	0.00045	0.0026	±	0.00043	
Apr. ~ Jun. 2002										
Morioka, IWATE	04	~	06	10364.0	0.0012	±	0.00045	0.0026	±	0.00043
Akita, AKITA	04	~	06	10800.0	0.00017	±	0.00034	0.00089	±	0.00032
Yamagata, YAMAGATA	04	~	06	12960.0	0.0025	±	0.00038	0.0013	±	0.00030
Okuma-machi, FUKUSHIMA	04	~	06	9844.0	0.0021	±	0.00048	0.00000	±	0.00028
Kawachi-machi, TOCHIGI	04	~	06	14208.1	0.00000	±	0.00035	0.00056	±	0.00030
Maebashi, GUNMA	04	~	06	9876.8	0.0012	±	0.00059	0.00000	±	0.00030
Ichihara, CHIBA	04	~	06	10202.4	0.00060	±	0.00055	0.0024	±	0.00046
Yokohama, KANAGAWA	04	~	06	10248.0	0.00011	±	0.00033	0.00037	±	0.00030
Niigata, NIIGATA	04	~	06	10083.2	0.00006	±	0.00032	0.00000	±	0.00028
Kosugi-machi, TOYAMA	04	~	06	18074.4	0.00066	±	0.00037	0.0014	±	0.00025
Fukui, FUKUI	04	~	06	12959.1	0.0017	±	0.00036	0.0030	±	0.00039
Kofu, YAMANASHI	04	~	06	14129.0	0.00009	±	0.00026	0.00038	±	0.00023
Nagano, NAGANO	04	~	06	11070.0	0.00000	±	0.00029	0.00000	±	0.00026
Kakamigahara, Gifu	04	~	06	10992.3	0.00089	±	0.00050	0.00000	±	0.00030
Hamaoka-machi, SHIZUOKA	04	~	06	10830.0	0.0010	±	0.00041	0.00057	±	0.00030
Nagoya, AICHI	04	~	06	10355.5	0.0015	±	0.00059	0.0020	±	0.00042
Yokkaichi, MIE	04	~	06	14773.0	0.00008	±	0.00025	0.00062	±	0.00026
Otsu, SHIGA	04	~	06	10223.0	0.00000	±	0.00035	0.00000	±	0.00027
Kyoto, KYOTO	04	~	06	10361.0	0.0013	±	0.00062	0.00000	±	0.00026
Osaka, OSAKA	04	~	06	17028.0	0.00085	±	0.00026	0.00049	±	0.00020
Kobe, HYOGO	04	~	06	10367.3	0.0019	±	0.00047	0.0030	±	0.00045
Nara, NARA	04	~	06	10059.5	0.00013	±	0.00038	0.00053	±	0.00033
Wakayama, WAKAYAMA	04	~	06	10388.0	0.00051	±	0.00052	0.0010	±	0.00035
Tottori, TOTTORI	04	~	06	14334.0	0.00065	±	0.00031	0.00078	±	0.00025
Okayama, OKAYAMA	04	~	06	13864.3	0.00049	±	0.00039	0.00059	±	0.00028
Hirosshima, HIROSHIMA	04	~	06	10066.3	0.00026	±	0.00045	0.00043	±	0.00033
Yamaguchi, YAMAGUCHI	04	~	06	21356.0	0.00017	±	0.00018	0.0011	±	0.00020
Tokushima, TOKUSHIMA	04	~	06	10080.0	0.00030	±	0.00052	0.00004	±	0.00034
Takamatsu, KAGAWA	04	~	06	14642.0	0.00091	±	0.00031	0.00010	±	0.00021
Saga, SAGA	04	~	06	9984.3	0.0011	±	0.00042	0.00013	±	0.00031

Location	Sampling period		Absorption (m ³)	Sr-90 (mBq/m ³)		Cs-137 (mBq/m ³)	
				±		±	
Nagasaki, NAGASAKI	04	~ 06	8640.0	0.0018	±	0.00049	0.0032
Uto, KUMAMOTO	04	~ 06	13038.1	0.0024	±	0.00037	0.0039
Oita, OITA	04	~ 06	10368.0	0.0012	±	0.00042	0.00000
Miyazaki, MIYAZAKI	04	~ 06	13173.0	0.00000	±	0.00041	0.00054
Apr. ~Jul. 2002							
Mito, IBARAKI	04	~ 07	11971.2	0.00028	±	0.00047	0.00039
Jul. ~Sep. 2002							
Morioka, IWATE	07	~ 09	10368.0	0.00000	±	0.00052	0.00000
Akita, AKITA	07	~ 09	10800.0	0.00000	±	0.00034	0.00029
Yamagata, YAMAGATA	07	~ 09	12960.0	0.00000	±	0.00040	0.00000
Okuma-machi, FUKUSHIMA	07	~ 09	9996.0	0.00000	±	0.00062	0.00009
Kawachi-machi, TOCHIGI	07	~ 09	14542.9	0.00008	±	0.00041	0.00000
Maebashi, GUNMA	07	~ 09	9746.4	0.00061	±	0.00055	0.00000
Ichihara, CHIBA	07	~ 09	10173.6	0.00022	±	0.00046	0.00013
Yokohama, KANAGAWA	07	~ 09	10217.0	0.00049	±	0.00063	0.00000
Niigata, NIIGATA	07	~ 09	10172.9	0.00000	±	0.00032	0.00043
Kosugi-machi, TOYAMA	07	~ 09	18095.2	0.00023	±	0.00031	0.00006
Fukui, FUKUI	07	~ 09	12959.1	0.00034	±	0.00029	0.00015
Kofu, YAMANASHI	07	~ 09	14225.6	0.00000	±	0.00025	0.00013
Nagano, NAGANO	07	~ 09	10597.5	0.00019	±	0.00035	0.00011
Kakamigahara, GIFU	07	~ 09	11416.4	0.00051	±	0.00046	0.00000
Hamaoka-machi, SHIZUOKA	07	~ 09	10630.0	0.00000	±	0.00050	0.00012
Nagoya, AICHI	07	~ 09	10367.6	0.0012	±	0.00061	0.00034
Yokkaichi, MIE	07	~ 09	13836.0	0.00005	±	0.00026	0.00000
Otsu, SHIGA	07	~ 09	10238.8	0.00024	±	0.00039	0.00010
Kyoto, KYOTO	07	~ 09	9943.0	0.00000	±	0.00059	0.00000
Osaka, OSAKA	07	~ 09	13647.0	0.00081	±	0.00048	0.00000
Kobe, HYOGO	07	~ 09	10366.7	0.00086	±	0.00053	0.00000
Nara, NARA	07	~ 09	10007.4	0.00000	±	0.00052	0.00000
Wakayama, WAKAYAMA	07	~ 09	10440.5	0.00073	±	0.00057	0.00017
Hawai-machi, TOTTORI	07	~ 09	14184.0	0.00000	±	0.00024	0.00002
Okayama, OKAYAMA	07	~ 09	13857.0	0.00041	±	0.00026	0.00000
Hirosshima, HIROSHIMA	07	~ 09	10204.5	0.00035	±	0.00058	0.00000
Yamaguchi, YAMAGUCHI	07	~ 09	21705.0	0.00021	±	0.00022	0.00000

Location	Sampling period		Absorption (m ³)	Sr-90 (mBq/m ³)		Cs-137 (mBq/m ³)	
				±	±	±	±
Tokushima, TOKUSHIMA	07	~	09	10080.0	0.00005	0.00049	0.00034
Takamatsu, KAGAWA	07	~	09	14834.1	0.0011	0.00047	0.00000
Nagasaki, NAGASAKI	07	~	09	8640.0	0.0017	0.00082	0.00008
Uto, KUMAMOTO	07	~	09	14402.9	0.00056	0.00039	0.00000
Oita, OITA	07	~	09	10375.0	0.00027	0.00050	0.00000
Miyazaki, MIYAZAKI	07	~	09	13312.0	0.00050	0.00047	0.00015
Jul. ~Oct. 2002							
Mito, IBARAKI	07	~	10	12135.5	0.00073	0.00053	0.00000
Sep. ~Dec. 2002							
Saga, SAGA	07	~	10	10219.0	0.00000	0.00050	0.00012
Oct. ~Dec. 2002							
Yokohama, KANAGAWA	09	~	12	10409.0	0.00021	0.00032	0.00000
26	Morioka, IWATE	10	~	12	10368.0	0.0010	0.00055
Akita, AKITA	10	~	12	10800.0	0.00005	0.00047	0.00050
Yamagata, YAMAGATA	10	~	12	12960.0	0.00031	0.00038	0.00018
Okuma-machi, FUKUSHIMA	10	~	12	10019.2	0.00000	0.00060	0.00000
Kawachi-machi, TOCHIGI	10	~	12	13802.8	0.00068	0.00041	0.00045
Maebashi, GUNMA	10	~	12	10112.1	0.00055	0.00059	0.00000
Ichihara, CHIBA	10	~	12	10203.0	0.00000	0.00044	0.00000
Niigata, NIIGATA	10	~	12	10061.6	0.00000	0.00047	0.00020
Kosugi-machi, TOYAMA	10	~	12	18093.6	0.00026	0.00036	0.00000
Fukui, FUKUI	10	~	12	12959.1	0.00054	0.00032	0.00029
Kofu, YAMANASHI	10	~	12	13064.3	0.00074	0.00045	0.00008
Nagano, NAGANO	10	~	12	10800.0	0.00005	0.00053	0.00000
Kakamigahara, GIFU	10	~	12	11791.7	0.00019	0.00029	0.00000
Hamaoka-machi, SHIZUOKA	10	~	12	10638.0	0.00048	0.00049	0.00066
Nagoya, AICHI	10	~	12	10367.2	0.00062	0.00055	0.00051
Otsu, SHIGA	10	~	12	10228.1	0.00005	0.00048	0.00073
Kyoto, KYOTO	10	~	12	10336.0	0.00036	0.00062	0.00000
Osaka, OSAKA	10	~	12	12753.0	0.00060	0.00028	0.00013
Kobe, HYOGO	10	~	12	10367.3	0.0016	0.00064	0.00090
Nara, NARA	10	~	12	10211.2	0.0011	0.00061	0.00000
Wakayama, WAKAYAMA	10	~	12	10470.2	0.00094	0.00059	0.00008
Hawai-machi, TOTTORI	10	~	12	14184.0	0.00017	0.00035	0.00011

Location	Sampling period		Absorption (m ³)	Sr-90 (mBq/m ³)		Cs-137 (mBq/m ³)				
					±		±			
Okayama,OKAYAMA	10	~	12	13052.0	0.00034	±	0.00041	0.00007	±	0.00021
Hiroshima,HIROSHIMA	10	~	12	10334.1	0.00000	±	0.00053	0.00016	±	0.00032
Yamaguchi,YAMAGUCHI	10	~	12	21841.0	0.00002	±	0.00025	0.00046	±	0.00017
Tokushima,TOKUSHIMA	10	~	12	10080.0	0.00042	±	0.00050	0.00000	±	0.00025
Takamatsu,KAGAWA	10	~	12	14393.2	0.00074	±	0.00039	0.00089	±	0.00026
Saga,SAGA	10	~	12	9129.4	0.00097	±	0.00043	0.00000	±	0.00034
Nagasaki,NAGASAKI	10	~	12	10412.0	0.00026	±	0.00055	0.0017	±	0.00037
Uto,KUMAMOTO	10	~	12	15898.1	0.00076	±	0.00039	0.00012	±	0.00020
Oita,OITA	10	~	12	10468.0	0.00047	±	0.00035	0.00000	±	0.00030
Miyazaki,MIYAZAKI	10	~	12	13845.0	0.00048	±	0.00038	0.00088	±	0.00028
Oct. 2002 ~ Jan. 2003										
Mito,IBARAKI	10	~	01	11723.5	0.00000	±	0.00049	0.00024	±	0.00024
Dec. ~Dec. 2002										
Yokkaichi,MIE	12	~	12	14189.1	0.00062	±	0.00039	0.00000	±	0.00019
Jan. ~Mar. 2003										
Morioka,IWATE	01	~	03	10368.0	0.00005	±	0.00049	0.00013	±	0.00029
Akita,AKITA	01	~	03	10800.0	0.00014	±	0.00050	0.00000	±	0.00027
Yamagata,YAMAGATA	01	~	03	12960.0	0.00071	±	0.00048	0.00000	±	0.00023
Okuma-machi,FUKUSHIMA	01	~	03	9938.0	0.00043	±	0.00055	0.00015	±	0.00029
Kawachi-machi,TOCHIGI	01	~	03	13360.7	0.00057	±	0.00044	0.00003	±	0.00022
Ichihara,CHIBA	01	~	03	10044.0	0.00000	±	0.00043	0.00000	±	0.00031
Yokohama,KANAGAWA	01	~	03	10592.0	0.00000	±	0.00042	0.00000	±	0.00028
Niigata,NIIGATA	01	~	03	10051.4	0.00069	±	0.00051	0.00000	±	0.00026
Kosugi-machi,TOYAMA	01	~	03	18099.6	0.00000	±	0.00032	0.00000	±	0.00016
Fukui,FUKUI	01	~	03	12959.1	0.00000	±	0.00042	0.00014	±	0.00024
Kofu,YAMANASHI	01	~	03	12531.6	0.00009	±	0.00046	0.00000	±	0.00023
Nagano,NAGANO	01	~	03	11205.0	0.00010	±	0.00053	0.00000	±	0.00026
Kakamigahara,GIFU	01	~	03	11745.1	0.0011	±	0.00053	0.00000	±	0.00022
Hamaoka-machi,SHIZUOKA	01	~	03	10576.0	0.00010	±	0.00056	0.00010	±	0.00025
Nagoya,AICHI	01	~	03	10366.9	0.00000	±	0.00042	0.00011	±	0.00031
Yokkaichi,MIE	01	~	03	14254.1	0.00048	±	0.00046	0.00000	±	0.00019
Otsu,SHIGA	01	~	03	10235.4	0.00041	±	0.00061	0.00000	±	0.00029
Kyoto,KYOTO	01	~	03	10419.0	0.00027	±	0.00065	0.00000	±	0.00027
Osaka,OSAKA	01	~	03	13136.0	0.00000	±	0.00037	0.00000	±	0.00023

Location	Sampling period	Absorption (m ³)	Sr-90 (mBq/m ³)			Cs-137 (mBq/m ³)		
				±		±	±	0.00030
Kobe, HYOGO	01 ~ 03	10367.2	0.00084	±	0.00058	0.00040	±	0.00028
Nara, NARA	01 ~ 03	10592.7	0.00055	±	0.00057	0.00000	±	0.00025
Wakayama, WAKAYAMA	01 ~ 03	10496.3	0.00034	±	0.00056	0.00016	±	0.00028
Hawai-machi, TOTTORI	01 ~ 03	14340.0	0.00000	±	0.00033	0.00000	±	0.00019
Okayama, OKAYAMA	01 ~ 03	13168.0	0.00034	±	0.00040	0.00010	±	0.00021
Hiroshima, HIROSHIMA	01 ~ 03	10426.4	0.00040	±	0.00052	0.00000	±	0.00028
Yamaguchi, YAMAGUCHI	01 ~ 03	21863.6	0.00012	±	0.00025	0.00000	±	0.00014
Tokushima, TOKUSHIMA	01 ~ 03	10080.0	0.00063	±	0.00054	0.00051	±	0.00030
Takamatsu, KAGAWA	01 ~ 03	14682.7	0.00051	±	0.00038	0.00021	±	0.00020
Saga, SAGA	01 ~ 03	10584.8	0.00035	±	0.00055	0.00000	±	0.00028
Nagasaki, NAGASAKI	01 ~ 03	10080.0	0.00000	±	0.00049	0.00048	±	0.00032
Uto, KUMAMOTO	01 ~ 03	12128.9	0.00053	±	0.00039	0.00000	±	0.00022
Oita, OITA	01 ~ 03	10471.0	0.00000	±	0.00042	0.00000	±	0.00028
Miyazaki, MIYAZAKI	01 ~ 03	13540.0	0.00000	±	0.00048	0.00000	±	0.00021
Jan. ~ Apr. 2003								
Mito, IBARAKI	01 ~ 04	10558.5	0.00049	±	0.00050	0.00000	±	0.00027
Feb. ~ Mar. 2003								
Maebashi, GUNMA	02 ~ 03	9881.7	0.00025	±	0.00054	0.00000	±	0.00029

(3) Strontium-90 and Cesium-137 in Service water
 (from Apr.2002 to Mar.2003)

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

Location	pH (pH)	Sr-90 (mBq/L)			Cs-137 (mBq/L)		
(Source water)							
May 2002							
Nagano,NAGANO	7.2	0.85	±	0.072	0.020	±	0.040
Jun.2002							
Saitama,SAITAMA	7.4	0.031	±	0.055	0.000	±	0.040
Kisarazu,CHIBA	7.4	1.9	±	0.15	0.074	±	0.043
Katsushika,TOKYO	7.3	1.5	±	0.10	0.14	±	0.048
Tsukui-machi,KANAGAWA	6.9	0.49	±	0.074	0.026	±	0.041
Inuyama,AICHI	7.0	2.0	±	0.15	0.16	±	0.049
Moriguchi,OSAKA	7.4	2.5	±	0.17	0.054	±	0.043
Fukuoka,FUKUOKA	7.1	1.4	±	0.09	0.14	±	0.050
Jul.2002							
Sapporo,HOKKAIDO	7.1	1.3	±	0.13	0.15	±	0.046
Aug.2002							
Kyoto,KYOTO	7.47	2.3	±	0.17	0.082	±	0.043
Dec.2002							
Saitama,SAITAMA	7.4	0.000	±	0.033	0.000	±	0.043
Kisarazu,CHIBA	7.6	1.3	±	0.13	0.047	±	0.040
Katsushika,TOKYO	7.1	0.61	±	0.096	0.000	±	0.045
Tsukui-machi,KANAGAWA	6.46	0.33	±	0.083	0.025	±	0.041
Nagano,NAGANO	6.4	0.57	±	0.089	0.003	±	0.038
Inuyama,AICHI	7.1	1.8	±	0.14	0.13	±	0.044
Moriguchi,OSAKA	7.3	2.4	±	0.13	0.000	±	0.041
Fukuoka,FUKUOKA	7.1	1.6	±	0.15	0.000	±	0.040
Jan.2003							
Sapporo,HOKKAIDO	7.0	1.3	±	0.13	0.031	±	0.041
Feb.2003							
Kyoto,KYOTO	7.80	1.8	±	0.14	0.050	±	0.039
(Tap water)							
May 2002							
Nagano,NAGANO	6.3	0.61	±	0.067	0.000	±	0.038
Shingu,WAKAYAMA	5.5	1.5	±	0.10	0.062	±	0.045

Location	pH (pH)	Sr-90 (mBq/L)			Cs-137 (mBq/L)		
Jun.2002							
Wakkai ,HOKKAIDO	5.9	0.82	±	0.11	0.000	±	0.037
Aomori ,AOMORI	7.5	0.78	±	0.075	0.13	±	0.047
Yamagata ,YAMAGATA	7.0	1.4	±	0.08	0.044	±	0.044
Fukushima ,FUKUSHIMA	7.20	2.0	±	0.15	0.045	±	0.039
Mito ,IBARAKI	6.8	1.1	±	0.11	0.003	±	0.039
Kawachi-machi ,TOCHIGI	7.2	0.39	±	0.061	0.10	±	0.044
Maebashi ,GUNMA	6.72	0.94	±	0.073	0.061	±	0.046
Saitama ,SAITAMA	6.9	1.4	±	0.14	0.003	±	0.042
Ichihara ,CHIBA	7.4	2.1	±	0.10	0.020	±	0.039
Katsushika ,TOKYO	7.3	1.0	±	0.14	0.11	±	0.047
Niigata ,NIIGATA	7.81	1.8	±	0.10	0.094	±	0.045
Kosugi-machi ,TOYAMA	7.3	1.1	±	0.08	0.000	±	0.040
Kanazawa ,ISHIKAWA	7.61	1.7	±	0.14	0.10	±	0.048
Fukui ,FUKUI	7.11	0.44	±	0.099	0.017	±	0.041
Kofu ,YAMANASHI	7.3	0.90	±	0.12	0.000	±	0.041
Kakamigahara ,GIFU	7.4	0.012	±	0.067	0.024	±	0.040
Shizuoka ,SHIZUOKA	7.06	0.55	±	0.058	0.000	±	0.036
Nagoya ,AICHI	6.9	1.6	±	0.13	0.053	±	0.042
Yokkaichi ,MIE	7.5	2.2	±	0.10	0.000	±	0.045
Otsu ,SHIGA	6.6	2.4	±	0.16	0.041	±	0.043
Osaka ,OSAKA	7.4	2.4	±	0.17	0.055	±	0.042
Kobe ,HYOGO	7.21	2.1	±	0.15	0.032	±	0.043
Nara ,NARA	7.6	2.3	±	0.20	0.006	±	0.044
Matsue ,SHIMANE	-	1.9	±	0.09	0.020	±	0.042
Okayama ,OKAYAMA	7.3	1.6	±	0.14	0.000	±	0.035
Hiroshima ,HIROSHIMA	6.0	2.0	±	0.15	0.008	±	0.041
Ube ,YAMAGUCHI	7.64	1.6	±	0.13	0.078	±	0.044
Tokushima ,TOKUSHIMA	6.79	1.4	±	0.14	0.000	±	0.040
Takamatsu ,KAGAWA	7.3	1.9	±	0.14	0.000	±	0.035
Matsuyama ,EHIME	7.4	1.4	±	0.13	0.000	±	0.037
Kochi ,KOCHI	7.33	1.4	±	0.14	0.074	±	0.045
Fukuoka ,FUKUOKA	7.2	2.6	±	0.12	0.000	±	0.040
Saga ,SAGA	7.6	1.1	±	0.09	0.000	±	0.041
Uto ,KUMAMOTO	7.62	0.000	±	0.057	0.000	±	0.037

Location	pH (pH)	Sr-90 (mBq/L)			Cs-137 (mBq/L)		
Oita,OITA	7.3	0.69	±	0.11	0.11	±	0.051
Miyazaki,MIYAZAKI	7.1	0.93	±	0.070	0.000	±	0.041
Jul.2002							
Morioka,IWATE	7.15	0.89	±	0.073	0.000	±	0.034
Sendai,MIYAGI	-	1.4	±	0.09	0.041	±	0.044
Akita,AKITA	6.83	2.4	±	0.12	0.12	±	0.046
Yokohama,KANAGAWA	7.7	0.54	±	0.092	0.000	±	0.039
Nagasaki,NAGASAKI	7.2	0.72	±	0.12	0.000	±	0.036
Naha,OKINAWA	7.802	2.2	±	0.19	0.000	±	0.040
Aug.2002							
Kyoto,KYOTO	7.62	2.0	±	0.15	0.057	±	0.041
Hawai-machi,TOTTORI	7.3	0.000	±	0.044	0.049	±	0.041
Kagoshima,KAGOSHIMA	7.2	0.54	±	0.076	0.19	±	0.053
Oct.2002							
Nagano,NAGANO	7.1	0.52	±	0.084	0.036	±	0.040
Nov.2002							
Fukushima,FUKUSHIMA	7.2	1.5	±	0.14	0.000	±	0.035
Dec.2002							
Wakkani,HOKKAIDO	7.0	0.78	±	0.11	0.031	±	0.042
Aomori,AOMORI	6.9	0.69	±	0.10	0.097	±	0.042
Sendai,MIYAGI	-	1.5	±	0.13	0.000	±	0.037
Akita,AKITA	6.74	1.9	±	0.15	0.000	±	0.037
Mito,IBARAKI	8.0	1.1	±	0.13	0.000	±	0.040
Kawachi-machi,TOCHIGI	7.4	0.52	±	0.097	0.014	±	0.040
Maebashi,GUNMA	6.95	1.3	±	0.13	0.014	±	0.040
Saitama,SAITAMA	6.9	1.0	±	0.08	0.000	±	0.045
Ichihara,CHIBA	7.3	1.4	±	0.13	0.000	±	0.038
Katsushika,TOKYO	7.0	1.1	±	0.13	0.000	±	0.047
Yokohama,KANAGAWA	7.5	0.40	±	0.10	0.000	±	0.042
Niigata,NIIGATA	7.19	2.2	±	0.16	0.012	±	0.036
Kosugi-machi,TOYAMA	7.3	1.3	±	0.12	0.000	±	0.037
Kanazawa,ISHIKAWA	7.66	1.9	±	0.10	0.046	±	0.048
Fukui,FUKUI	6.97	0.58	±	0.11	0.003	±	0.040
Kofu,YAMANASHI	7.6	0.89	±	0.11	0.000	±	0.036
Kakamigahara,GIFU	7.8	0.003	±	0.040	0.000	±	0.046

Location	pH (pH)	Sr-90 (mBq/L)		Cs-137 (mBq/L)	
Shizuoka, SHIZUOKA	7.04	0.42	±	0.085	0.000 ± 0.037
Nagoya, AICHI	7.0	1.8	±	0.15	0.065 ± 0.041
Yokkaichi, MIE	7.6	3.0	±	0.17	0.047 ± 0.042
Otsu, SHIGA	6.56	2.3	±	0.16	0.000 ± 0.039
Osaka, OSAKA	7.4	2.4	±	0.14	0.000 ± 0.043
Kobe, HYOGO	7.01	2.0	±	0.10	0.000 ± 0.037
Nara, NARA	7.5	1.8	±	0.15	0.000 ± 0.042
Hawai-machi, TOTTORI	7.4	0.000	±	0.036	0.000 ± 0.041
Matsue, SHIMANE	-	2.5	±	0.16	0.045 ± 0.038
Okayama, OKAYAMA	7.3	2.1	±	0.16	0.003 ± 0.036
Hiroshima, HIROSHIMA	7.6	1.9	±	0.09	0.000 ± 0.042
Ube, YAMAGUCHI	7.6	1.6	±	0.09	0.063 ± 0.045
Tokushima, TOKUSHIMA	6.8	1.6	±	0.19	0.000 ± 0.046
Takamatsu, KAGAWA	7.2	2.2	±	0.10	0.000 ± 0.042
Matsuyama, EHIME	7.8	2.0	±	0.16	0.000 ± 0.041
Kochi, KOCHI	7.19	1.7	±	0.13	0.081 ± 0.057
Fukuoka, FUKUOKA	6.8	2.2	±	0.17	0.000 ± 0.039
Nagasaki, NAGASAKI	7.0	0.88	±	0.077	0.009 ± 0.045
Uto, KUMAMOTO	7.59	0.005	±	0.040	0.000 ± 0.036
Miyazaki, MIYAZAKI	7.1	1.0	±	0.11	0.025 ± 0.039
Jan. 2003					
Morioka, IWATE	7.01	1.2	±	0.13	0.000 ± 0.036
Yamagata, YAMAGATA	6.8	1.9	±	0.15	0.000 ± 0.044
Kyoto, KYOTO	7.54	2.0	±	0.16	0.068 ± 0.041
Shingu, WAKAYAMA	5.5	1.2	±	0.15	0.000 ± 0.036
Saga, SAGA	7.5	0.77	±	0.13	0.000 ± 0.038
Oita, OITA	7.9	0.38	±	0.099	0.000 ± 0.050

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

(from Apr.2002 to Mar.2003)

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

Location	pH (pH)	Sr-90 (mBq/L)			Cs-137 (mBq/L)		
(Fresh water)							
May 2002							
Tsuchiura,IBARAKI	7.8	2.1	±	0.16	0.46	±	0.066
Jul.2002							
Ishikari,HOKKAIDO	6.8	2.1	±	0.16	0.12	±	0.046
Aug.2002							
Akita,AKITA	6.75	2.8	±	0.13	0.25	±	0.053
Tsuruga,FUKUI	7.27	3.0	±	0.12	1.7	±	0.11
Sep.2002							
Fukushima,FUKUSHIMA	6.6	0.056	±	0.062	0.003	±	0.037
Nov.2002							
Niigata,NIIGATA	6.78	2.2	±	0.18	0.070	±	0.045
Suwa,NAGANO	9.4	0.56	±	0.088	0.15	±	0.048
Dec.2002							
Uji,KYOTO	6.89	0.014	±	0.068	0.000	±	0.038

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

(from Apr.2002 to Mar.2003)

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

Location	Sampling depth(cm)	Sr-90				Cs-137			
		(Bq/kg)		(MBq/km ²)		(Bq/kg)		(MBq/km ²)	
May 2002									
Tokai-mura,IBARAKI	0 ~ 5	4.5	± 0.24	280	± 15	26	± 0.6	1600	± 30
Tokai-mura,IBARAKI	5 ~ 20	2.8	± 0.21	510	± 37	2.6	± 0.18	460	± 33
Jun.2002									
Fukushima,FUKUSHIMA	0 ~ 5	2.7	± 0.20	110	± 8	22	± 0.5	870	± 20
Fukushima,FUKUSHIMA	5 ~ 20	2.3	± 0.18	270	± 21	16	± 0.4	1900	± 50
Akabane-machi,AICHI	0 ~ 5	1.2	± 0.13	51	± 5.6	10	± 0.3	430	± 15
Akabane-machi,AICHI	5 ~ 20	0.69	± 0.10	70	± 11	11	± 0.4	1100	± 40
Jul.2002									
Aomori,AOMORI	0 ~ 5	2.3	± 0.18	79	± 6.3	5.7	± 0.26	200	± 9
Aomori,AOMORI	5 ~ 20	2.2	± 0.19	180	± 16	4.8	± 0.24	400	± 20
Mutsu,AOMORI	0 ~ 5	0.31	± 0.088	13	± 3.6	2.7	± 0.19	110	± 8
Mutsu,AOMORI	5 ~ 20	0.50	± 0.11	82	± 18	0.54	± 0.098	89	± 16
Imaichi,TOCHIGI	0 ~ 5	14	± 0.4	230	± 7	35	± 0.6	550	± 10
Imaichi,TOCHIGI	5 ~ 20	5.5	± 0.29	190	± 10	32	± 0.6	1100	± 20
Maebashi,GUNMA	0 ~ 5	0.14	± 0.059	6.8	± 2.8	2.2	± 0.16	100	± 8
Maebashi,GUNMA	5 ~ 20	0.54	± 0.093	45	± 7.8	1.4	± 0.14	120	± 12
Saitama,SAITAMA	0 ~ 5	1.3	± 0.14	35	± 3.9	7.3	± 0.29	200	± 8
Saitama,SAITAMA	5 ~ 20	0.58	± 0.10	66	± 12	0.99	± 0.12	110	± 14
Ichihara,CHIBA	0 ~ 5	0.043	± 0.052	1.6	± 2.0	1.9	± 0.16	73	± 5.9
Ichihara,CHIBA	5 ~ 20	0.12	± 0.057	18	± 8.5	1.0	± 0.12	150	± 18
Shinjuku,TOKYO	0 ~ 5	0.67	± 0.10	19	± 2.9	2.5	± 0.18	71	± 5.1
Shinjuku,TOKYO	5 ~ 20	0.86	± 0.12	61	± 8.5	6.0	± 0.28	430	± 20
Kashiwazaki,NIIGATA	0 ~ 5	0.68	± 0.11	50	± 7.7	11	± 0.4	770	± 26
Kashiwazaki,NIIGATA	5 ~ 20	0.55	± 0.096	130	± 22	8.6	± 0.32	2000	± 70
Kosugi-machi,TOYAMA	0 ~ 5	0.26	± 0.076	17	± 5.1	0.73	± 0.11	49	± 7.1
Kosugi-machi,TOYAMA	5 ~ 20	0.24	± 0.075	26	± 8.1	0.30	± 0.080	33	± 8.7
Fukui,FUKUI	0 ~ 5	0.37	± 0.090	10	± 2.5	3.7	± 0.22	100	± 6
Fukui,FUKUI	5 ~ 20	0.31	± 0.083	35	± 9.5	1.7	± 0.15	190	± 17
Gifu,GIFU	0 ~ 5	0.70	± 0.11	33	± 5.3	7.8	± 0.30	370	± 14
Gifu,GIFU	5 ~ 20	1.2	± 0.14	170	± 20	5.8	± 0.26	810	± 36

Location	Sampling depth(cm)	Sr-90			Cs-137		
		(Bq/kg)	(MBq/km ²)		(Bq/kg)	(MBq/km ²)	
Gotenba,SHIZUOKA	0 ~ 5	0.56 ± 0.097	16 ± 2.8		6.0 ± 0.27	170 ± 8	
Gotenba,SHIZUOKA	5 ~ 20	0.77 ± 0.13	66 ± 11		4.1 ± 0.23	350 ± 20	
Yasu-machi,SHIGA	0 ~ 5	0.12 ± 0.064	8.5 ± 4.4		0.70 ± 0.11	48 ± 7.3	
Yasu-machi,SHIGA	5 ~ 20	0.077 ± 0.056	11 ± 8.3		1.4 ± 0.13	210 ± 20	
Osaka,OSAKA	0 ~ 5	0.45 ± 0.089	28 ± 5.6		1.9 ± 0.16	120 ± 10	
Osaka,OSAKA	5 ~ 20	0.92 ± 0.12	190 ± 25		3.5 ± 0.21	720 ± 44	
Kashihara,NARA	0 ~ 5	0.27 ± 0.071	14 ± 3.6		4.1 ± 0.23	210 ± 12	
Kashihara,NARA	5 ~ 20	0.45 ± 0.084	44 ± 8.3		4.1 ± 0.22	400 ± 22	
Kokufu-machi,TOTTORI	0 ~ 5	0.093 ± 0.054	6.7 ± 3.9		1.2 ± 0.13	83 ± 9.2	
Kokufu-machi,TOTTORI	5 ~ 20	0.34 ± 0.083	69 ± 17		0.61 ± 0.10	120 ± 21	
Oda,SHIMANE	0 ~ 5	6.5 ± 0.32	89 ± 4.4		19 ± 0.5	260 ± 7	
Oda,SHIMANE	5 ~ 20	2.3 ± 0.19	150 ± 12		8.3 ± 0.32	530 ± 20	
Asahi-machi,OKAYAMA	0 ~ 5	1.1 ± 0.13	28 ± 3.2		0.37 ± 0.087	9.3 ± 2.2	
Asahi-machi,OKAYAMA	5 ~ 20	0.11 ± 0.065	11 ± 6.5		0.38 ± 0.088	38 ± 8.9	
Hiroshima,HIROSHIMA	0 ~ 5	0.64 ± 0.097	41 ± 6.2		2.8 ± 0.19	180 ± 12	
Hiroshima,HIROSHIMA	5 ~ 20	1.3 ± 0.14	210 ± 21		7.4 ± 0.30	1200 ± 50	
Kamiita-machi,TOKUSHIMA	0 ~ 5	0.49 ± 0.091	59 ± 11		2.6 ± 0.18	320 ± 22	
Kamiita-machi,TOKUSHIMA	5 ~ 20	0.37 ± 0.086	93 ± 21		2.0 ± 0.16	500 ± 40	
Sakaide,KAGAWA	0 ~ 5	2.0 ± 0.17	36 ± 3.1		15 ± 0.4	270 ± 8	
Sakaide,KAGAWA	5 ~ 20	2.3 ± 0.19	110 ± 9		3.6 ± 0.21	170 ± 10	
Matsuyama,EHIME	0 ~ 5	1.1 ± 0.13	14 ± 1.6		34 ± 0.6	420 ± 8	
Matsuyama,EHIME	5 ~ 20	0.23 ± 0.072	11 ± 3.4		15 ± 0.4	720 ± 20	
Kochi,KOCHI	0 ~ 5	3.7 ± 0.25	96 ± 6.5		19 ± 0.5	490 ± 12	
Kochi,KOCHI	5 ~ 20	4.5 ± 0.27	240 ± 14		13 ± 0.4	700 ± 21	
Fukuoka,FUKUOKA	0 ~ 5	5.3 ± 0.26	480 ± 24		1.8 ± 0.15	170 ± 14	
Fukuoka,FUKUOKA	5 ~ 20	1.6 ± 0.15	270 ± 25		0.33 ± 0.083	54 ± 14	
Obama-machi,NAGASAKI	0 ~ 5	2.1 ± 0.17	34 ± 2.8		45 ± 0.7	750 ± 12	
Obama-machi,NAGASAKI	5 ~ 20	2.0 ± 0.17	83 ± 7.2		24 ± 0.5	980 ± 22	
Nishihara-mura,KUMAMOTO	0 ~ 5	3.6 ± 0.22	70 ± 4.3		63 ± 0.9	1200 ± 20	
Nishihara-mura,KUMAMOTO	5 ~ 20	3.9 ± 0.24	250 ± 15		15 ± 0.4	930 ± 26	
Kuju-machi,OITA	0 ~ 5	1.9 ± 0.16	17 ± 1.5		61 ± 0.8	570 ± 8	
Kuju-machi,OITA	5 ~ 20	1.2 ± 0.14	52 ± 6.2		26 ± 0.6	1200 ± 30	
Sadowara-machi,MIYAZAKI	0 ~ 5	0.62 ± 0.10	31 ± 5.0		1.9 ± 0.16	95 ± 7.8	
Sadowara-machi,MIYAZAKI	5 ~ 20	0.85 ± 0.12	160 ± 22		2.5 ± 0.18	490 ± 34	

Location	Sampling depth(cm)	Sr-90				Cs-137			
		(Bq/kg)		(MBq/km ²)		(Bq/kg)		(MBq/km ²)	
Naha,OKINAWA	0 ~ 5	0.61	± 0.10	29	± 4.8	4.3	± 0.23	200	± 11
Naha,OKINAWA	5 ~ 20	0.77	± 0.11	120	± 17	3.2	± 0.20	500	± 31
Aug.2002									
Takizawa-mura,IWATE	0 ~ 5	8.3	± 0.32	240	± 9	32	± 0.6	940	± 18
Takizawa-mura,IWATE	5 ~ 20	9.9	± 0.41	880	± 37	19	± 0.5	1700	± 40
Yamagata,YAMAGATA	0 ~ 5	2.9	± 0.21	120	± 9	18	± 0.5	740	± 19
Yamagata,YAMAGATA	5 ~ 20	1.8	± 0.16	150	± 13	5.9	± 0.27	490	± 22
Yokohama,KANAGAWA	0 ~ 5	0.87	± 0.12	25	± 3.4	2.5	± 0.18	70	± 5.0
Yokohama,KANAGAWA	5 ~ 20	1.2	± 0.15	100	± 14	2.0	± 0.17	170	± 15
Kanazawa,ISHIKAWA	0 ~ 5	6.7	± 0.30	280	± 13	26	± 0.5	1100	± 20
Kanazawa,ISHIKAWA	5 ~ 20	5.9	± 0.29	780	± 38	21	± 0.5	2800	± 70
Takane-machi,YAMANASHI	0 ~ 5	4.9	± 0.25	96	± 4.8	16	± 0.4	300	± 8
Takane-machi,YAMANASHI	5 ~ 20	5.0	± 0.28	530	± 30	9.9	± 0.34	1100	± 40
Komono-machi,MIE	0 ~ 5	0.12	± 0.062	6.8	± 3.5	0.30	± 0.082	17	± 4.6
Komono-machi,MIE	5 ~ 20	0.037	± 0.054	7	± 10	0.000	± 0.049	0.0	± 9.3
Kyoto,KYOTO	0 ~ 5	1.0	± 0.12	30	± 3.6	2.4	± 0.17	68	± 4.9
Kyoto,KYOTO	5 ~ 20	0.50	± 0.093	100	± 19	0.85	± 0.11	180	± 24
Kasai,HYOGO	0 ~ 5	2.8	± 0.20	110	± 7	32	± 0.6	1200	± 20
Kasai,HYOGO	5 ~ 20	0.40	± 0.087	59	± 13	3.7	± 0.22	550	± 32
Shingu,WAKAYAMA	0 ~ 5	0.10	± 0.055	4.5	± 2.3	0.84	± 0.12	36	± 5.1
Shingu,WAKAYAMA	5 ~ 20	0.043	± 0.048	4.7	± 5.1	0.58	± 0.10	63	± 11
Hagi,YAMAGUCHI	0 ~ 5	1.1	± 0.13	66	± 7.5	5.1	± 0.25	300	± 15
Hagi,YAMAGUCHI	5 ~ 20	0.99	± 0.12	140	± 18	3.8	± 0.23	560	± 33
Saga,SAGA	0 ~ 5	0.13	± 0.067	5.3	± 2.8	0.75	± 0.11	31	± 4.6
Saga,SAGA	5 ~ 20	0.11	± 0.067	9.0	± 5.4	0.41	± 0.085	33	± 6.8
Sep.2002									
Sapporo,HOKKAIDO	0 ~ 5	6.1	± 0.30	130	± 6	24	± 0.5	490	± 11
Sapporo,HOKKAIDO	5 ~ 20	5.6	± 0.30	760	± 40	9.2	± 0.33	1300	± 40
Iwadeyama-machi,MIYAGI	0 ~ 5	1.9	± 0.17	69	± 6.1	3.8	± 0.22	130	± 8
Iwadeyama-machi,MIYAGI	5 ~ 20	1.4	± 0.15	230	± 24	1.5	± 0.14	230	± 22
Kaimon-machi,KAGOSHIMA	0 ~ 5	0.091	± 0.054	6.9	± 4.1	0.68	± 0.11	52	± 8.1
Kaimon-machi,KAGOSHIMA	5 ~ 20	0.22	± 0.067	34	± 10	1.2	± 0.13	180	± 20

Location	Sampling depth(cm)	Sr-90				Cs-137			
		(Bq/kg)		(MBq/km ²)		(Bq/kg)		(MBq/km ²)	
Oct.2002									
Akita,AKITA	0 ~ 5	3.4	± 0.21	120	± 8	27	± 0.6	990	± 20
Akita,AKITA	5 ~ 20	4.2	± 0.25	480	± 28	16	± 0.4	1800	± 50
Nagano,NAGANO	0 ~ 5	1.2	± 0.14	34	± 3.8	11	± 0.4	300	± 10
Nagano,NAGANO	5 ~ 20	0.79	± 0.12	80	± 12	1.1	± 0.13	120	± 13

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

(from Apr.2002 to Mar.2003)

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

Location	Sample Volume analyzed (L)	Cl (%)	Sr-90			Cs-137		
				(mBq/L)		(mBq/L)		
Jul.2002								
Yoichi-bay,HOKKAIDO	40	18.69	2.0	± 0.32		2.0	± 0.33	
Mutsu,AOMORI	40	19.0	1.1	± 0.28		1.9	± 0.31	
Mutsu-bay,AOMORI	40	18.0	1.9	± 0.35		2.2	± 0.33	
Soma,FUKUSHIMA	40	17.84	1.5	± 0.30		1.9	± 0.32	
Tokai,IBARAKI	40	17.83	1.2	± 0.28		1.8	± 0.32	
Ichihara,CHIBA	40	13	1.5	± 0.31		1.5	± 0.29	
Niigata,NIIGATA	40	18.25	1.7	± 0.30		2.3	± 0.34	
Osaka-Port,OSAKA	40	9.00	1.9	± 0.32		0.91	± 0.24	
Aug.2002								
Otawa-bay,KANAGAWA	40	18.8	0.98	± 0.25		2.3	± 0.35	
Tokoname,AICHI	40	17.3	1.7	± 0.31		2.5	± 0.34	
Yamaguchi-bay,YAMAGUCHI	40	15.8	1.4	± 0.29		1.7	± 0.31	
Kitakyusyu,FUKUOKA	40	19.2	1.3	± 0.28		2.4	± 0.36	
Sep.2002								
Kaseda,KAGOSHIMA	40	15.79	1.3	± 0.27		2.0	± 0.33	
Nov.2002								
White-beach,OKINAWA	40	19.03	1.3	± 0.29		2.3	± 0.34	

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

(from Apr.2002 to Mar.2003)

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

Location	Depth (m)	Sr-90 (Bq/kg)		Cs-137 (Bq/kg)
Jul.2002				
Yoichi-bay, HOKKAIDO	13	0.006	± 0.049	0.44 ± 0.087
Mutsu, AOMORI	13	0.041	± 0.054	0.19 ± 0.066
Mutsu-bay, AOMORI	10	0.30	± 0.089	4.9 ± 0.24
Soma, FUKUSHIMA	5	0.000	± 0.046	0.098 ± 0.062
Tokai, IBARAKI	10	0.019	± 0.050	0.24 ± 0.074
Ichihara, CHIBA	17.1	0.064	± 0.062	2.8 ± 0.18
Niigata, NIIGATA	27	0.021	± 0.056	0.86 ± 0.11
Osaka-Port, OSAKA	18	0.038	± 0.061	2.2 ± 0.17
Aug.2002				
Otawa-bay, KANAGAWA	6.8	0.046	± 0.055	1.6 ± 0.14
Tokoname, AICHI	21.6	0.078	± 0.063	3.2 ± 0.19
Yamaguchi-bay, YAMAGUCHI	11.7	0.046	± 0.055	2.1 ± 0.16
Kitakyusyu, FUKUOKA	8	0.23	± 0.080	2.4 ± 0.17
Sep.2002				
Kaseda, KAGOSHIMA	7	0.062	± 0.049	0.13 ± 0.060
Nov.2002				
White-beach, OKINAWA	13.6	0.071	± 0.057	0.16 ± 0.064

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

(from Apr.2002 to Mar.2003)

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

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)	
Jun.2002											
Sapporo,HOKKAIDO	15.5	466	2150	0.048	± 0.0099	0.10	± 0.021	0.033	± 0.0061	0.016	± 0.0029
Iwanai-machi,HOKKAIDO	15.9	1770	1870	0.10	± 0.012	0.058	± 0.0070	0.043	± 0.0069	0.023	± 0.0037
Aomori,AOMORI	18.9	676	2800	0.077	± 0.012	0.11	± 0.017	0.060	± 0.0079	0.021	± 0.0028
Ajigasawa-machi,AOMORI	15.1	379	2090	0.039	± 0.010	0.10	± 0.027	0.033	± 0.0059	0.016	± 0.0028
Morioka,IWATE	12.8	338	1620	0.043	± 0.0094	0.13	± 0.028	0.026	± 0.0055	0.016	± 0.0034
Iwaizumi-machi,IWATE	14.1	608	1630	0.045	± 0.010	0.074	± 0.017	0.052	± 0.0073	0.032	± 0.0045
Yamagata,YAMAGATA	12.0	422	1330	0.052	± 0.010	0.12	± 0.024	0.033	± 0.0062	0.025	± 0.0047
Higashine,YAMAGATA	17.3	710	2040	0.059	± 0.010	0.084	± 0.014	0.018	± 0.0051	0.0089	± 0.0025
Fukushima,FUKUSHIMA	15.6	391	1790	0.018	± 0.0071	0.045	± 0.018	0.017	± 0.0053	0.0098	± 0.0030
Okuma-machi,FUKUSHIMA	13.1	438	1600	0.030	± 0.0082	0.068	± 0.019	0.017	± 0.0054	0.011	± 0.0034
Mito,IBARAKI	11.7	375	1530	0.038	± 0.0093	0.10	± 0.025	0.020	± 0.0055	0.013	± 0.0036
Tokai-mura,IBARAKI	14.9	462	1680	0.030	± 0.0086	0.064	± 0.019	0.017	± 0.0052	0.010	± 0.0031
Utsunomiya,TOCHIGI	16.9	566	2400	0.038	± 0.0087	0.067	± 0.015	0.043	± 0.0069	0.018	± 0.0029
Minamikawachi-machi,TOCHIGI	13.5	459	1630	0.033	± 0.0082	0.071	± 0.018	0.027	± 0.0057	0.017	± 0.0035
Maebashi,GUNMA	16.5	483	2440	0.042	± 0.011	0.086	± 0.022	0.027	± 0.0058	0.011	± 0.0024
Nakanojo-machi,GUNMA	12.0	482	1450	0.015	± 0.0069	0.031	± 0.014	0.017	± 0.0051	0.012	± 0.0035
Saitama,SAITAMA	17.4	567	2560	0.031	± 0.0086	0.054	± 0.015	0.045	± 0.0070	0.018	± 0.0027
Fukaya,SAITAMA	11.8	457	1790	0.032	± 0.0082	0.070	± 0.018	0.011	± 0.0044	0.0060	± 0.0025
Chiba,CHIBA	15.8	620	2140	0.028	± 0.0083	0.045	± 0.013	0.022	± 0.0055	0.010	± 0.0026
Chikura-machi,CHIBA	18.0	533	2290	0.050	± 0.0093	0.093	± 0.018	0.020	± 0.0052	0.0085	± 0.0022
Shinjuku,TOKYO	11.9	322	1640	0.062	± 0.010	0.19	± 0.032	0.014	± 0.0047	0.0086	± 0.0029
Hachijo-machi,TOKYO	11.2	316	1320	0.046	± 0.0099	0.15	± 0.031	0.017	± 0.0053	0.013	± 0.0040
Yokohama,KANAGAWA	14.5	386	1740	0.025	± 0.0084	0.064	± 0.022	0.033	± 0.0064	0.019	± 0.0037
Nishikawa-machi,NIIGATA	20.5	748	2810	0.053	± 0.0095	0.071	± 0.013	0.025	± 0.0058	0.0090	± 0.0021
Kashiwazaki,NIIGATA	13.0	488	1930	0.025	± 0.0073	0.050	± 0.015	0.028	± 0.0059	0.014	± 0.0031
Toyama,TOYAMA	14.4	413	1950	0.038	± 0.0088	0.092	± 0.021	0.017	± 0.0051	0.0088	± 0.0026
Kosugi-machi,TOYAMA	11.5	283	1690	0.049	± 0.0082	0.17	± 0.029	0.021	± 0.0043	0.012	± 0.0026
Kanazawa,ISHIKAWA	13.8	521	1260	0.039	± 0.0085	0.075	± 0.016	0.023	± 0.0054	0.019	± 0.0043
Torigoe-mura,ISHIKAWA	15.9	638	2330	0.12	± 0.014	0.19	± 0.021	0.029	± 0.0059	0.013	± 0.0025
Kofu,YAMANASHI	12.2	499	1600	0.034	± 0.0083	0.068	± 0.017	0.037	± 0.0063	0.023	± 0.0039
Ryuo-machi,YAMANASHI	16.0	517	2040	0.045	± 0.0089	0.086	± 0.017	0.020	± 0.0053	0.0097	± 0.0026
Nagano,NAGANO	19.6	704	2270	0.062	± 0.013	0.089	± 0.019	0.059	± 0.011	0.026	± 0.0048

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)	
Toyono-machi, NAGANO	16.8	706	2340	0.036	± 0.0086	0.051	± 0.012	0.021	± 0.0055	0.0091	± 0.0023
Gifu, Gifu	14.1	506	1900	0.028	± 0.0076	0.055	± 0.015	0.017	± 0.0052	0.0091	± 0.0027
Takayama, Gifu	12.3	454	1860	0.032	± 0.0078	0.071	± 0.017	0.030	± 0.0060	0.016	± 0.0032
Shizuoka, SHIZUOKA	15.8	638	2530	0.032	± 0.0085	0.050	± 0.013	0.036	± 0.0067	0.014	± 0.0027
Hamaoka-machi, SHIZUOKA	10.8	352	1290	0.025	± 0.0084	0.070	± 0.024	0.012	± 0.0047	0.0095	± 0.0037
Nagoya, AICHI	14.1	431	1900	0.029	± 0.0077	0.067	± 0.018	0.015	± 0.0049	0.0076	± 0.0026
Shinshiro, AICHI	8.70	271	1460	0.039	± 0.0097	0.14	± 0.036	0.028	± 0.0059	0.019	± 0.0040
Tsu, MIE	16.7	512	2350	0.031	± 0.0077	0.060	± 0.015	0.017	± 0.0051	0.0070	± 0.0022
Owase, MIE	15.4	564	2070	0.057	± 0.0098	0.10	± 0.017	0.034	± 0.0060	0.017	± 0.0029
Otsu, SHIGA	12.3	378	1580	0.038	± 0.0080	0.10	± 0.021	0.023	± 0.0053	0.015	± 0.0034
Imazu-machi, SHIGA	11.7	616	1820	0.023	± 0.0071	0.038	± 0.012	0.035	± 0.0062	0.019	± 0.0034
Osaka, OSAKA	15.7	953	2250	0.027	± 0.0082	0.029	± 0.0087	0.020	± 0.0056	0.0091	± 0.0025
Izumiotsu, OSAKA	12.9	371	1550	0.032	± 0.0079	0.087	± 0.021	0.028	± 0.0054	0.018	± 0.0035
Kakogawa, HYOGO	14.4	695	1850	0.040	± 0.0096	0.058	± 0.014	0.012	± 0.0050	0.0066	± 0.0027
Hamasaka-machi, HYOGO	16.3	720	1980	0.056	± 0.0099	0.078	± 0.014	0.018	± 0.0049	0.0090	± 0.0025
Kashihara, NARA	10.7	607	1520	0.040	± 0.0087	0.066	± 0.014	0.026	± 0.0055	0.017	± 0.0036
Muroo-mura, NARA	10.3	498	1130	0.016	± 0.0066	0.032	± 0.013	0.024	± 0.0054	0.021	± 0.0048
Wakayama, WAKAYAMA	10.0	244	1290	0.025	± 0.0079	0.10	± 0.032	0.012	± 0.0043	0.0093	± 0.0033
Shingu, WAKAYAMA	8.70	348	970	0.031	± 0.0088	0.089	± 0.025	0.017	± 0.0054	0.018	± 0.0056
Okayama, OKAYAMA	17.0	598	2040	0.035	± 0.0083	0.059	± 0.014	0.021	± 0.0053	0.010	± 0.0026
Kamisaibara-mura, OKAYAMA	14.4	420	1860	0.089	± 0.012	0.21	± 0.028	0.022	± 0.0054	0.012	± 0.0029
Hirosima, HIROSHIMA	12.6	343	1480	0.030	± 0.0081	0.088	± 0.024	0.019	± 0.0050	0.013	± 0.0034
Miyoshi, HIROSHIMA	10.8	432	1350	0.017	± 0.0063	0.038	± 0.015	0.0097	± 0.0043	0.0072	± 0.0032
Yamaguchi, YAMAGUCHI	13.2	664	1860	0.038	± 0.0084	0.058	± 0.013	0.031	± 0.0059	0.017	± 0.0032
Mine, YAMAGUCHI	14.8	842	1780	0.026	± 0.0075	0.030	± 0.0089	0.029	± 0.0060	0.016	± 0.0034
Tokushima, TOKUSHIMA	14.9	447	2380	0.044	± 0.0090	0.098	± 0.020	0.022	± 0.0053	0.0092	± 0.0022
Kamiita-machi, TOKUSHIMA	13.0	445	2100	0.029	± 0.0088	0.065	± 0.020	0.020	± 0.0053	0.0093	± 0.0025
Takamatsu, KAGAWA	15.1	474	2970	0.067	± 0.011	0.14	± 0.023	0.047	± 0.0070	0.016	± 0.0024
Marugame, KAGAWA	14.8	584	2050	0.028	± 0.0080	0.048	± 0.014	0.019	± 0.0055	0.0092	± 0.0027
Matsuyama, EHIME	10.3	265	1440	0.018	± 0.0075	0.066	± 0.028	0.011	± 0.0046	0.0079	± 0.0032
Ikata-machi, EHIME	11.4	361	1060	0.033	± 0.0087	0.090	± 0.024	0.0052	± 0.0041	0.0049	± 0.0039
Kochi, KOCHI	17.2	530	2140	0.046	± 0.0090	0.086	± 0.017	0.046	± 0.0070	0.021	± 0.0033
Saga-machi, KOCHI	15.5	499	2020	0.025	± 0.0080	0.050	± 0.016	0.040	± 0.0066	0.020	± 0.0033
Dazaifu, FUKUOKA	14.8	438	1770	0.024	± 0.0087	0.054	± 0.020	0.015	± 0.0048	0.0083	± 0.0027
Fukuoka, FUKUOKA	12.2	406	1190	0.0068	± 0.0065	0.017	± 0.016	0.0086	± 0.0043	0.0072	± 0.0036
Saga, SAGA	11.4	358	1390	0.0071	± 0.0061	0.020	± 0.017	0.017	± 0.0047	0.012	± 0.0033

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)	
Karatsu,SAGA	13.4	539	1760	0.028	± 0.0082	0.053	± 0.015	0.013	± 0.0043	0.0072	± 0.0025
Nagasaki,NAGASAKI	15.8	629	2060	0.025	± 0.0080	0.040	± 0.013	0.013	± 0.0047	0.0064	± 0.0023
Matsuura,NAGASAKI	11.9	390	1350	0.020	± 0.0073	0.052	± 0.019	0.010	± 0.0048	0.0077	± 0.0035
Kumamoto,KUMAMOTO	13.5	264	2100	0.018	± 0.0076	0.067	± 0.029	0.021	± 0.0055	0.0098	± 0.0026
Tomiai-machi,KUMAMOTO	17.0	597	2350	0.046	± 0.0092	0.077	± 0.015	0.024	± 0.0057	0.010	± 0.0024
Oita,OITA	13.4	425	1560	0.020	± 0.0076	0.047	± 0.018	0.027	± 0.0056	0.017	± 0.0036
Saiki,OITA	11.6	342	1390	0.011	± 0.0068	0.032	± 0.020	0.0065	± 0.0044	0.0047	± 0.0032
Miyazaki,MIYAZAKI	12.5	364	1610	0.024	± 0.0080	0.066	± 0.022	0.029	± 0.0057	0.018	± 0.0035
Takahashi-machi,MIYAZAKI	15.6	421	2130	0.046	± 0.011	0.11	± 0.026	0.033	± 0.0057	0.015	± 0.0027
Sendai,KAGOSHIMA	14.6	517	1980	0.026	± 0.0094	0.051	± 0.018	0.028	± 0.0055	0.014	± 0.0028
Okuchi,KAGOSHIMA	20.7	592	2530	0.051	± 0.011	0.087	± 0.019	0.033	± 0.0058	0.013	± 0.0023
Jul.2002											
Ishinomaki,MIYAGI	16.6	528	2170	0.025	± 0.0079	0.047	± 0.015	0.024	± 0.0058	0.011	± 0.0027
Onagawa-machi,MIYAGI	20.7	700	2750	0.037	± 0.0083	0.053	± 0.012	0.021	± 0.0056	0.0076	± 0.0020
Akita,AKITA	10.8	333	1560	0.039	± 0.0089	0.12	± 0.027	0.018	± 0.0049	0.011	± 0.0032
Yokote,AKITA	10.1	365	1330	0.015	± 0.0071	0.042	± 0.019	0.015	± 0.0047	0.011	± 0.0036
Hiratsuka,KANAGAWA	16.2	479	2250	0.015	± 0.0071	0.032	± 0.015	0.044	± 0.0066	0.020	± 0.0029
Fukui,FUKUI	13.7	539	2260	0.057	± 0.0099	0.11	± 0.018	0.017	± 0.0050	0.0075	± 0.0022
Tsuruga,FUKUI	17.7	464	1980	0.027	± 0.0077	0.058	± 0.017	0.046	± 0.0069	0.023	± 0.0035
Kyoto,KYOTO	12.9	404	1490	0.030	± 0.0092	0.075	± 0.023	0.030	± 0.0058	0.020	± 0.0039
Maizuru,KYOTO	13.5	653	1810	0.031	± 0.0092	0.048	± 0.014	0.0061	± 0.0042	0.0034	± 0.0023
Matsue,SHIMANE	16.7	567	2310	0.045	± 0.011	0.079	± 0.019	0.020	± 0.0055	0.0088	± 0.0024
Kashima-machi,SHIMANE	13.3	540	1760	0.037	± 0.0092	0.069	± 0.017	0.020	± 0.0054	0.011	± 0.0031
Aug.2002											
Tottori,TOTTORI	13.5	413	1850	0.046	± 0.0093	0.11	± 0.023	0.054	± 0.0072	0.029	± 0.0039
Fukube-mura,TOTTORI	12.3	298	1810	0.041	± 0.0095	0.14	± 0.032	0.028	± 0.0062	0.015	± 0.0034
Okinawa,OKINAWA	10.6	368	1570	0.023	± 0.0078	0.064	± 0.021	0.023	± 0.0054	0.015	± 0.0035
Sep.2002											
Naha,OKINAWA	10.4	450	1570	0.016	± 0.0071	0.035	± 0.016	0.016	± 0.0048	0.010	± 0.0030
Oct.2002											
Kochi,KOCHI	16.0	608	2240	0.037	± 0.010	0.060	± 0.017	0.041	± 0.0064	0.018	± 0.0028
Saga-machi,KOCHI	12.9	448	1790	0.080	± 0.012	0.18	± 0.027	0.034	± 0.0066	0.019	± 0.0037
Nagasaki,NAGASAKI	17.1	555	2020	0.030	± 0.0080	0.054	± 0.014	0.019	± 0.0050	0.0094	± 0.0025
Matsuura,NAGASAKI	10.5	377	1310	0.018	± 0.0073	0.048	± 0.019	0.0099	± 0.0040	0.0075	± 0.0031
Nov.2002											
Iwaizumi-machi,IWATE	14.6	522	1920	0.055	± 0.010	0.11	± 0.019	0.021	± 0.0053	0.011	± 0.0028

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)	
Ishinomaki, MIYAGI	17.7	630	2410	0.051	± 0.0098	0.081	± 0.016	0.097	± 0.0095	0.040	± 0.0039
Onagawa-machi, MIYAGI	19.8	875	2490	0.047	± 0.0087	0.054	± 0.0099	0.035	± 0.0063	0.014	± 0.0025
Yamagata, YAMAGATA	14.4	304	1560	0.028	± 0.0081	0.093	± 0.027	0.025	± 0.0055	0.016	± 0.0035
Higashine, YAMAGATA	11.1	537	1750	0.061	± 0.010	0.11	± 0.019	0.061	± 0.0078	0.035	± 0.0044
Fukushima, FUKUSHIMA	14.6	537	2040	0.038	± 0.0083	0.071	± 0.015	0.026	± 0.0055	0.013	± 0.0027
Okuma-machi, FUKUSHIMA	13.5	489	1560	0.044	± 0.0090	0.089	± 0.018	0.021	± 0.0050	0.013	± 0.0032
Utsunomiya, TOCHIGI	15.0	468	1930	0.026	± 0.0082	0.055	± 0.017	0.026	± 0.0058	0.014	± 0.0030
Saitama, SAITAMA	28.5	641	2710	0.061	± 0.010	0.096	± 0.016	0.034	± 0.0065	0.012	± 0.0024
Fukaya, SAITAMA	12.5	495	1520	0.040	± 0.0087	0.080	± 0.018	0.019	± 0.0054	0.013	± 0.0035
Chiba, CHIBA	15.8	515	2340	0.059	± 0.010	0.12	± 0.020	0.045	± 0.0067	0.019	± 0.0029
Chikura-machi, CHIBA	14.3	467	2060	0.046	± 0.0090	0.098	± 0.019	0.018	± 0.0049	0.0090	± 0.0024
Hiratsuka, KANAGAWA	16.4	542	2270	0.032	± 0.0086	0.058	± 0.016	0.020	± 0.0051	0.0089	± 0.0022
Toyama, TOYAMA	16.3	523	2100	0.052	± 0.0098	0.099	± 0.019	0.036	± 0.0065	0.017	± 0.0031
Kosugi-machi, TOYAMA	14.1	471	1830	0.033	± 0.0084	0.071	± 0.018	0.019	± 0.0053	0.010	± 0.0029
Tsuruga, FUKUI	16.6	1280	1790	0.059	± 0.0099	0.046	± 0.0077	0.039	± 0.0063	0.022	± 0.0035
Nagano, NAGANO	18.9	846	2980	0.050	± 0.0097	0.059	± 0.012	0.044	± 0.0070	0.015	± 0.0024
Toyono-machi, NAGANO	15.6	589	2310	0.036	± 0.0088	0.061	± 0.015	0.032	± 0.0061	0.014	± 0.0027
Shizuoka, SHIZUOKA	14.7	599	2350	0.049	± 0.0095	0.083	± 0.016	0.041	± 0.0068	0.017	± 0.0029
Hamaoka-machi, SHIZUOKA	12.7	374	1780	0.041	± 0.0091	0.11	± 0.024	0.024	± 0.0055	0.013	± 0.0031
Nagoya, AICHI	15.9	506	2110	0.046	± 0.0087	0.091	± 0.017	0.033	± 0.0062	0.015	± 0.0029
Shinshiro, AICHI	13.3	576	1930	0.056	± 0.0092	0.096	± 0.016	0.018	± 0.0052	0.0096	± 0.0027
Kashihara, NARA	11.1	524	1620	0.017	± 0.0067	0.032	± 0.013	0.027	± 0.0055	0.016	± 0.0034
Muroou-mura, NARA	9.32	458	1340	0.027	± 0.0077	0.059	± 0.017	0.020	± 0.0050	0.015	± 0.0038
Wakayama, WAKAYAMA	13.7	382	1290	0.012	± 0.0067	0.032	± 0.018	0.012	± 0.0046	0.0096	± 0.0036
Shingu, WAKAYAMA	11.5	309	989	0.025	± 0.0082	0.080	± 0.027	0.019	± 0.0051	0.019	± 0.0051
Okayama, OKAYAMA	18.1	683	2180	0.056	± 0.010	0.082	± 0.015	0.021	± 0.0050	0.0098	± 0.0023
Kamisaibara-mura, OKAYAMA	13.0	341	1380	0.045	± 0.0089	0.13	± 0.026	0.063	± 0.0073	0.046	± 0.0053
Matsuyama, EHIME	12.6	357	1680	0.022	± 0.0073	0.062	± 0.021	0.032	± 0.0058	0.019	± 0.0035
Ikata-machi, EHIME	10.5	446	1310	0.022	± 0.0071	0.050	± 0.016	0.023	± 0.0051	0.018	± 0.0039
Dazaifu, FUKUOKA	13.9	389	1810	0.037	± 0.0079	0.096	± 0.020	0.037	± 0.0060	0.020	± 0.0033
Fukuoka, FUKUOKA	13.9	354	1620	0.039	± 0.0079	0.11	± 0.022	0.020	± 0.0049	0.012	± 0.0030
Oita, OITA	10.9	391	1570	0.031	± 0.0082	0.079	± 0.021	0.028	± 0.0055	0.018	± 0.0035
Saiki, OITA	15.0	529	1750	0.027	± 0.0077	0.051	± 0.015	0.034	± 0.0059	0.019	± 0.0034
Sendai, KAGOSHIMA	17.0	610	2200	0.034	± 0.0088	0.055	± 0.014	0.038	± 0.0065	0.017	± 0.0030
Okuchi, KAGOSHIMA	17.7	502	2040	0.043	± 0.0097	0.086	± 0.019	0.030	± 0.0059	0.015	± 0.0029

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)	
Dec.2002											
Sapporo,HOKKAIDO	16.2	575	2300	0.056	± 0.0093	0.097	± 0.016	0.029	± 0.0057	0.012	± 0.0025
Iwanai-machi,HOKKAIDO	13.5	388	1770	0.051	± 0.010	0.13	± 0.026	0.037	± 0.0061	0.021	± 0.0035
Aomori,AOMORI	20.3	725	2900	0.065	± 0.010	0.090	± 0.014	0.030	± 0.0061	0.010	± 0.0021
Ajigasawa-machi,AOMORI	15.8	406	2240	0.051	± 0.0093	0.13	± 0.023	0.023	± 0.0055	0.010	± 0.0025
Morioka,IWATE	14.5	492	1880	0.026	± 0.0078	0.053	± 0.016	0.021	± 0.0050	0.011	± 0.0027
Akita,AKITA	14.6	435	2100	0.062	± 0.011	0.14	± 0.025	0.039	± 0.0049	0.019	± 0.0023
Yokote,AKITA	13.7	424	1990	0.042	± 0.0051	0.099	± 0.012	0.019	± 0.0041	0.0094	± 0.0021
Mito,IBARAKI	15.2	482	1880	0.022	± 0.0072	0.045	± 0.015	0.016	± 0.0047	0.0086	± 0.0025
Tokai-mura,IBARAKI	17.8	479	2560	0.060	± 0.010	0.13	± 0.021	0.033	± 0.0059	0.013	± 0.0023
Minamikawachi-machi,TOCHIGI	13.9	459	2000	0.051	± 0.0098	0.11	± 0.021	0.031	± 0.0060	0.015	± 0.0030
Maebashi,GUNMA	19.1	573	2440	0.046	± 0.0092	0.081	± 0.016	0.045	± 0.0066	0.018	± 0.0027
Nakanojo-machi,GUNMA	12.1	352	1670	0.045	± 0.0090	0.13	± 0.026	0.049	± 0.0069	0.030	± 0.0041
Shinjuku,TOKYO	8.83	271	1310	0.014	± 0.0073	0.051	± 0.027	0.029	± 0.0057	0.022	± 0.0043
Hachijo-machi,TOKYO	11.1	682	1230	0.025	± 0.0075	0.036	± 0.011	0.021	± 0.0052	0.017	± 0.0043
Yokohama,KANAGAWA	13.1	350	2080	0.029	± 0.0085	0.082	± 0.024	0.027	± 0.0057	0.013	± 0.0028
Nishikawa-machi,NIIGATA	24.4	842	3200	0.070	± 0.011	0.083	± 0.013	0.034	± 0.0061	0.011	± 0.0019
Kashiwazaki,NIIGATA	12.9	341	1790	0.033	± 0.0092	0.096	± 0.027	0.024	± 0.0054	0.013	± 0.0030
Kanazawa,ISHIKAWA	13.3	606	1880	0.036	± 0.0087	0.059	± 0.014	0.060	± 0.0077	0.032	± 0.0041
Torigoe-mura,ISHIKAWA	16.2	688	2760	0.078	± 0.011	0.11	± 0.016	0.046	± 0.0069	0.017	± 0.0025
Fukui,FUKUI	15.8	534	1990	0.043	± 0.0095	0.081	± 0.018	0.014	± 0.0048	0.0069	± 0.0024
Kofu,YAMANASHI	12.9	625	2230	0.029	± 0.0085	0.047	± 0.014	0.033	± 0.0060	0.015	± 0.0027
Ryuo-machi,YAMANASHI	9.75	425	1350	0.013	± 0.0074	0.030	± 0.017	0.018	± 0.0048	0.013	± 0.0036
Gifu,GIFU	16.0	552	2300	0.035	± 0.0087	0.064	± 0.016	0.019	± 0.0052	0.0083	± 0.0023
Takayama,GIFU	14.3	331	2020	0.027	± 0.0085	0.081	± 0.026	0.047	± 0.0069	0.023	± 0.0034
Tsu,MIE	16.1	549	2380	0.053	± 0.0095	0.096	± 0.017	0.027	± 0.0056	0.011	± 0.0023
Owase,MIE	16.8	606	2060	0.075	± 0.011	0.12	± 0.018	0.042	± 0.0066	0.020	± 0.0032
Otsu,SHIGA	13.8	480	1890	0.027	± 0.0082	0.056	± 0.017	0.031	± 0.0061	0.017	± 0.0032
Imazu-machi,SHIGA	12.8	510	1910	0.032	± 0.0086	0.063	± 0.017	0.036	± 0.0063	0.019	± 0.0033
Kyoto,KYOTO	13.0	468	1420	0.028	± 0.0071	0.059	± 0.015	0.022	± 0.0052	0.015	± 0.0037
Maizuru,KYOTO	16.0	859	1990	0.068	± 0.010	0.079	± 0.012	0.022	± 0.0051	0.011	± 0.0026
Osaka,OSAKA	16.3	618	2970	0.066	± 0.011	0.11	± 0.017	0.039	± 0.0068	0.013	± 0.0023
Izumiotsu,OSAKA	16.1	460	2200	0.043	± 0.0090	0.093	± 0.020	0.022	± 0.0057	0.010	± 0.0026
Kakogawa,HYOGO	13.7	574	1770	0.040	± 0.0090	0.070	± 0.016	0.0070	± 0.0038	0.0040	± 0.0022
Hamasaka-machi,HYOGO	14.2	595	1770	0.030	± 0.0084	0.051	± 0.014	0.020	± 0.0050	0.011	± 0.0028
Matsue,SHIMANE	17.6	750	2240	0.038	± 0.0081	0.051	± 0.011	0.031	± 0.0058	0.014	± 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)	
Kashima-machi, SHIMANE	16.1	673	1890	0.054	± 0.0096	0.080	± 0.014	0.016	± 0.0048	0.0085	± 0.0025
Hiroshima, HIROSHIMA	12.8	308	1480	0.060	± 0.0096	0.19	± 0.031	0.023	± 0.0052	0.016	± 0.0035
Miyoshi, HIROSHIMA	10.7	342	1570	0.041	± 0.0084	0.12	± 0.025	0.025	± 0.0053	0.016	± 0.0034
Yamaguchi, YAMAGUCHI	14.5	469	1750	0.032	± 0.0083	0.069	± 0.018	0.018	± 0.0050	0.010	± 0.0029
Mine, YAMAGUCHI	14.9	525	1760	0.034	± 0.0086	0.065	± 0.016	0.022	± 0.0053	0.013	± 0.0030
Tokushima, TOKUSHIMA	17.6	576	2100	0.047	± 0.0087	0.081	± 0.015	0.020	± 0.0049	0.0097	± 0.0023
Kamiita-machi, TOKUSHIMA	15.6	522	1930	0.046	± 0.0094	0.088	± 0.018	0.023	± 0.0053	0.012	± 0.0027
Takamatsu, KAGAWA	17.3	1150	2000	0.046	± 0.0093	0.040	± 0.0081	0.026	± 0.0058	0.013	± 0.0029
Marugame, KAGAWA	13.5	478	2260	0.021	± 0.0078	0.043	± 0.016	0.031	± 0.0061	0.014	± 0.0027
Saga, SAGA	9.63	254	1200	0.023	± 0.0076	0.089	± 0.030	0.020	± 0.0050	0.017	± 0.0042
Karatsu, SAGA	11.9	442	1720	0.029	± 0.0078	0.066	± 0.018	0.023	± 0.0052	0.013	± 0.0030
Kumamoto, KUMAMOTO	14.8	423	2180	0.028	± 0.0081	0.066	± 0.019	0.031	± 0.0059	0.014	± 0.0027
Tomiai-machi, KUMAMOTO	17.4	648	2720	0.042	± 0.0093	0.065	± 0.014	0.015	± 0.0046	0.0054	± 0.0017
Miyazaki, MIYAZAKI	14.3	470	1940	0.030	± 0.0081	0.063	± 0.017	0.038	± 0.0065	0.019	± 0.0034
Takahashi-machi, MIYAZAKI	16.1	612	2110	0.064	± 0.010	0.11	± 0.017	0.039	± 0.0066	0.018	± 0.0031
Feb.2003											
Naha, OKINAWA	12.0	526	1810	0.028	± 0.0079	0.053	± 0.015	0.026	± 0.0058	0.014	± 0.0032
Okinawa, OKINAWA	13.1	579	1710	0.044	± 0.0097	0.076	± 0.017	0.022	± 0.0054	0.013	± 0.0032

(9)-1

Strontium-90 and Cesium-137 in Rice(producing districts)
(from Apr.2002 to Mar.2003)

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)	
Sep.2002									
Chiba,CHIBA	0.617	0.040	0.993	0.0006 ± 0.0047	0.02 ± 0.12	0.0055 ± 0.0039	0.0055 ± 0.0039	0.0055 ± 0.0039	
Matsusaka,MIE	0.636	0.058	1.07	0.0000 ± 0.0042	0.000 ± 0.073	0.013 ± 0.0045	0.012 ± 0.0041	0.012 ± 0.0041	
Miki-machi,KAGAWA	0.563	0.042	0.850	0.0000 ± 0.0046	0.00 ± 0.11	0.0000 ± 0.0030	0.0000 ± 0.0036	0.0000 ± 0.0036	
Oct.2002									
Ishinomaki,MIYAGI	0.508	0.046	0.843	0.0032 ± 0.0047	0.07 ± 0.10	0.0054 ± 0.0040	0.0065 ± 0.0047	0.0065 ± 0.0047	
Mito,IBARAKI	0.493	0.048	0.818	0.0006 ± 0.0055	0.01 ± 0.11	0.020 ± 0.0052	0.024 ± 0.0064	0.024 ± 0.0064	
Utsunomiya,TOCHIGI	0.688	0.050	0.860	0.0012 ± 0.0057	0.02 ± 0.11	0.0096 ± 0.0049	0.011 ± 0.0057	0.011 ± 0.0057	
Maki-machi,NIIGATA	0.539	0.041	0.771	0.0061 ± 0.0063	0.15 ± 0.15	0.0058 ± 0.0041	0.0076 ± 0.0053	0.0076 ± 0.0053	
Uchinada-machi,ISHIKAWA	0.478	0.040	0.817	0.0000 ± 0.0048	0.00 ± 0.12	0.0000 ± 0.0029	0.0000 ± 0.0036	0.0000 ± 0.0036	
Gifu,GIFU	0.436	0.051	0.711	0.0048 ± 0.0045	0.094 ± 0.089	0.0026 ± 0.0038	0.0037 ± 0.0053	0.0037 ± 0.0053	
Shiga-machi,SHIGA	0.686	0.056	1.10	0.011 ± 0.0055	0.20 ± 0.099	0.027 ± 0.0056	0.024 ± 0.0051	0.024 ± 0.0051	
Kashihara,NARA	0.695	0.064	1.10	0.0058 ± 0.0060	0.091 ± 0.094	0.0038 ± 0.0034	0.0035 ± 0.0031	0.0035 ± 0.0031	
Yamaguchi,YAMAGUCHI	0.639	0.058	1.19	0.016 ± 0.0065	0.27 ± 0.11	0.012 ± 0.0047	0.0098 ± 0.0040	0.0098 ± 0.0040	
Koshi-machi,KUMAMOTO	0.638	0.048	0.785	0.0000 ± 0.0046	0.000 ± 0.095	0.0000 ± 0.0036	0.0000 ± 0.0046	0.0000 ± 0.0046	
Sadowara-machi,MIYAZAKI	0.571	0.051	0.742	0.0040 ± 0.0044	0.079 ± 0.086	0.0060 ± 0.0039	0.0081 ± 0.0053	0.0081 ± 0.0053	
Nov.2002									
Ishikari,HOKKAIDO	0.565	0.041	0.881	0.0068 ± 0.0053	0.17 ± 0.13	0.0047 ± 0.0037	0.0054 ± 0.0042	0.0054 ± 0.0042	
Fukushima,FUKUSHIMA	0.682	0.055	0.791	0.0000 ± 0.0047	0.000 ± 0.086	0.0016 ± 0.0041	0.0020 ± 0.0052	0.0020 ± 0.0052	
Kosugi-machi,TOYAMA	0.609	0.053	1.24	0.0042 ± 0.0049	0.079 ± 0.091	0.012 ± 0.0044	0.010 ± 0.0036	0.010 ± 0.0036	
Toyoshina-machi,NAGANO	0.427	0.046	0.816	0.0066 ± 0.0049	0.14 ± 0.11	0.0000 ± 0.0031	0.0000 ± 0.0038	0.0000 ± 0.0038	
Kasai,HYOGO	0.443	0.049	0.665	0.0000 ± 0.0051	0.00 ± 0.10	0.0011 ± 0.0038	0.0017 ± 0.0057	0.0017 ± 0.0057	
Saga,SAGA	0.464	0.052	0.812	0.0095 ± 0.0051	0.18 ± 0.098	0.0078 ± 0.0042	0.0096 ± 0.0052	0.0096 ± 0.0052	
Usa,OITA	0.523	0.041	0.884	0.0000 ± 0.0043	0.00 ± 0.11	0.0054 ± 0.0036	0.0061 ± 0.0041	0.0061 ± 0.0041	
Dec.2002									
Maebashi,GUNMA	0.496	0.049	0.640	0.0046 ± 0.0044	0.095 ± 0.090	0.0004 ± 0.0035	0.0006 ± 0.0055	0.0006 ± 0.0055	
Takane-machi,YAMANASHI	0.548	0.042	0.811	0.0000 ± 0.0035	0.000 ± 0.082	0.0008 ± 0.0035	0.0009 ± 0.0043	0.0009 ± 0.0043	
Chikushino,FUKUOKA	0.644	0.053	0.850	0.0000 ± 0.0048	0.000 ± 0.090	0.0053 ± 0.0036	0.0063 ± 0.0042	0.0063 ± 0.0042	
Jan.2003									
Ishii-machi,TOKUSHIMA	0.429	0.044	0.828	0.0065 ± 0.0051	0.15 ± 0.12	0.0015 ± 0.0031	0.0018 ± 0.0038	0.0018 ± 0.0038	

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)	
Feb.2003 Takizawa-mura, IWATE	0.530	0.045	0.837	0.0000 ± 0.0044	0.000 ± 0.096		0.048 ± 0.0065	0.057 ± 0.0078	

(9)-2

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

(from Apr.2002 to Mar.2003)

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)		
Sep.2002									
Shingu,WAKAYAMA	0.475	0.045	0.803	0.022 ± 0.0070	0.49 ± 0.16	0.033 ± 0.0061	0.042 ± 0.0076		
Oct.2002									
Akita,AKITA	0.442	0.035	0.743	0.0050 ± 0.0048	0.14 ± 0.14	0.029 ± 0.0055	0.039 ± 0.0075		
Saitama,SAITAMA	0.571	0.042	0.851	0.0018 ± 0.0045	0.04 ± 0.11	0.0024 ± 0.0035	0.0028 ± 0.0041		
Shinjuku,TOKYO	0.528	0.050	0.898	0.0020 ± 0.0058	0.04 ± 0.11	0.051 ± 0.0072	0.057 ± 0.0080		
Niigata,NIIGATA	0.435	0.041	0.639	0.0059 ± 0.0062	0.14 ± 0.15	0.0066 ± 0.0042	0.010 ± 0.0065		
Fukui,FUKUI	0.619	0.045	0.811	0.010 ± 0.0055	0.23 ± 0.12	0.0039 ± 0.0036	0.0048 ± 0.0044		
Hiroshima,HIROSHIMA	0.427	0.039	0.828	0.0000 ± 0.0052	0.00 ± 0.13	0.025 ± 0.0056	0.030 ± 0.0068		
Matsuyama,EHIME	0.666	0.058	1.03	0.0000 ± 0.0053	0.000 ± 0.090	0.0000 ± 0.0040	0.0000 ± 0.0039		
Nov.2002									
Sapporo,HOKKAIDO	0.574	0.048	1.03	0.015 ± 0.0059	0.31 ± 0.12	0.0039 ± 0.0034	0.0038 ± 0.0033		
Yamagata,YAMAGATA	0.477	0.052	0.854	0.013 ± 0.0065	0.24 ± 0.12	0.036 ± 0.0064	0.042 ± 0.0075		
Yokohama,KANAGAWA	0.522	0.042	0.783	0.016 ± 0.0061	0.38 ± 0.14	0.013 ± 0.0045	0.017 ± 0.0057		
Shizuoka,SHIZUOKA	0.521	0.044	0.782	0.014 ± 0.0058	0.31 ± 0.13	0.0047 ± 0.0034	0.0060 ± 0.0044		
Kyoto,KYOTO	0.436	0.044	0.776	0.010 ± 0.0055	0.23 ± 0.12	0.023 ± 0.0051	0.030 ± 0.0065		
Osaka,OSAKA	0.478	0.048	0.832	0.0036 ± 0.0044	0.074 ± 0.091	0.0011 ± 0.0036	0.0013 ± 0.0043		
Kobe,HYOGO	0.525	0.055	0.887	0.0000 ± 0.0051	0.000 ± 0.094	0.0085 ± 0.0047	0.0095 ± 0.0052		
Yonashiro-machi,OKINAWA	0.461	0.052	0.927	0.0026 ± 0.0057	0.05 ± 0.11	0.0057 ± 0.0042	0.0061 ± 0.0045		
Dec.2002									
Nagoya,AICHI	0.512	0.052	0.809	0.0078 ± 0.0061	0.15 ± 0.12	0.0000 ± 0.0032	0.0000 ± 0.0040		
Kurayoshi,TOTTORI	0.485	0.054	0.791	0.0006 ± 0.0055	0.01 ± 0.10	0.023 ± 0.0052	0.030 ± 0.0066		
Matsue,SHIMANE	0.423	0.047	0.791	0.0038 ± 0.0057	0.08 ± 0.12	0.014 ± 0.0048	0.017 ± 0.0061		
Seto-machi,OKAYAMA	0.449	0.044	0.763	0.0044 ± 0.0051	0.10 ± 0.12	0.0045 ± 0.0036	0.0059 ± 0.0047		
Kasuga,FUKUOKA	0.463	0.049	0.870	0.0000 ± 0.0050	0.00 ± 0.10	0.0072 ± 0.0039	0.0082 ± 0.0045		
Kagoshima,KAGOSHIMA	0.466	0.044	0.657	0.0043 ± 0.0050	0.10 ± 0.11	0.054 ± 0.0072	0.082 ± 0.011		
Jan.2003									
Hirosaki,AOMORI	0.562	0.052	1.01	0.0059 ± 0.0052	0.11 ± 0.099	0.0062 ± 0.0041	0.0062 ± 0.0041		
Kochi,KOCHI	0.484	0.051	0.818	0.0000 ± 0.0038	0.000 ± 0.074	0.0004 ± 0.0036	0.0005 ± 0.0044		
Nagasaki,NAGASAKI	0.532	0.051	0.867	0.0083 ± 0.0062	0.16 ± 0.12	0.017 ± 0.0046	0.020 ± 0.0053		

(10)-1

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

(from Apr.2002 to Mar.2003)

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 2002															
Sapporo,HOKKAIDO	0.724	1.18	1.61	0.018	±	0.0079	0.015	±	0.0067	0.021	±	0.0054	0.013	±	0.0033
Hachijo-machi,TOKYO	0.665	0.907	1.22	0.022	±	0.0071	0.024	±	0.0078	0.0039	±	0.0041	0.0032	±	0.0033
Iwamuro-mura,NIIGATA	0.758	1.14	1.64	0.023	±	0.0072	0.021	±	0.0063	0.0008	±	0.0035	0.0005	±	0.0021
Katsuyama,FUKUI	0.715	1.02	1.65	0.0020	±	0.0065	0.0019	±	0.0063	0.018	±	0.0050	0.011	±	0.0030
Sakai,Habikino,OSAKA	0.742	1.10	1.57	0.0070	±	0.0068	0.0063	±	0.0062	0.019	±	0.0051	0.012	±	0.0032
Matsue,SHIMANE	0.788	1.02	1.42	0.034	±	0.0079	0.033	±	0.0077	0.0090	±	0.0043	0.0064	±	0.0030
Chiyoda-machi,HIROSHIMA	0.729	1.13	1.60	0.011	±	0.0073	0.0097	±	0.0064	0.011	±	0.0045	0.0071	±	0.0028
Kochi,KOCHI	0.737	1.09	1.70	0.019	±	0.0075	0.017	±	0.0069	0.015	±	0.0049	0.0091	±	0.0029
Yasu-machi,FUKUOKA	0.717	1.09	1.64	0.026	±	0.0078	0.024	±	0.0072	0.0093	±	0.0043	0.0057	±	0.0027
Yamato-machi,SAGA	0.776	1.15	1.71	0.012	±	0.0068	0.011	±	0.0059	0.0000	±	0.0037	0.0000	±	0.0021
Kanoya,KAGOSHIMA	0.740	1.14	1.67	0.024	±	0.0072	0.021	±	0.0063	0.016	±	0.0051	0.0096	±	0.0030
Jul.2002															
Kamiita-machi,TOKUSHIMA	0.730	1.15	1.58	0.010	±	0.0053	0.0091	±	0.0047	0.012	±	0.0042	0.0074	±	0.0027
Aug.2002															
Sapporo,HOKKAIDO	0.696	1.12	1.58	0.029	±	0.0087	0.026	±	0.0078	0.022	±	0.0051	0.014	±	0.0033
Aomori,AOMORI	0.735	1.07	1.70	0.068	±	0.010	0.064	±	0.0093	0.085	±	0.0088	0.050	±	0.0052
Takizawa-mura,IWATE	0.687	1.07	1.51	0.024	±	0.0076	0.023	±	0.0071	0.047	±	0.0069	0.031	±	0.0046
Mito,IBARAKI	0.728	1.08	1.68	0.014	±	0.0061	0.013	±	0.0056	0.0053	±	0.0041	0.0032	±	0.0025
Nishinasuno-machi,TOCHIGI	0.705	1.17	1.54	0.023	±	0.0084	0.020	±	0.0072	0.032	±	0.0061	0.021	±	0.0040
Fujimi-mura,GUNMA	0.758	1.27	1.55	0.013	±	0.0061	0.010	±	0.0048	0.0036	±	0.0038	0.0023	±	0.0025
Yachimata,CHIBA	0.729	1.15	1.50	0.018	±	0.0065	0.015	±	0.0056	0.011	±	0.0045	0.0075	±	0.0030
Hachijo-machi,TOKYO	0.684	0.919	1.23	0.022	±	0.0071	0.024	±	0.0077	0.0000	±	0.0035	0.0000	±	0.0028
Iwamuro-mura,NIIGATA	0.746	1.11	1.58	0.032	±	0.0079	0.029	±	0.0071	0.015	±	0.0047	0.0096	±	0.0029
Oshimizu-machi,ISHIKAWA	0.745	1.13	1.65	0.023	±	0.0079	0.020	±	0.0070	0.0079	±	0.0039	0.0048	±	0.0024
Katsuyama,FUKUI	0.769	0.938	1.55	0.011	±	0.0075	0.012	±	0.0080	0.016	±	0.0050	0.010	±	0.0032
Takane-machi,YAMANASHI	0.691	1.13	1.46	0.015	±	0.0071	0.014	±	0.0063	0.0095	±	0.0047	0.0065	±	0.0032
Kasamatsu-machi,GIFU	0.692	1.12	1.45	0.0091	±	0.0059	0.0081	±	0.0052	0.0072	±	0.0042	0.0049	±	0.0029
Ouchiyama-mura,MIE	0.723	1.13	1.55	0.024	±	0.0074	0.022	±	0.0066	0.0057	±	0.0041	0.0037	±	0.0026
Hino-machi,SHIGA	0.739	1.17	1.54	0.024	±	0.0074	0.021	±	0.0063	0.013	±	0.0047	0.0082	±	0.0031

Location	Ash	Ca	K	Sr-90						Cs-137						
	(w/v%)	(g/L)	(g/L)	(Bq/L)			(Bq/g Ca)			(Bq/L)		(Bq/g K)				
Sakai,Habikino,OSAKA	0.735	1.11	1.51	0.019	±	0.0066	0.017	±	0.0059	0.017	±	0.0048	0.011	±	0.0032	
Mihara-machi,HYOGO	0.698	1.09	1.48	0.021	±	0.0068	0.019	±	0.0063	0.0030	±	0.0034	0.0020	±	0.0023	
Ouda-machi,NARA	0.669	1.02	1.41	0.017	±	0.0072	0.017	±	0.0070	0.012	±	0.0043	0.0086	±	0.0031	
Matsue,SHIMANE	0.766	1.04	1.49	0.027	±	0.0075	0.025	±	0.0072	0.0071	±	0.0043	0.0048	±	0.0029	
Chiyoda-machi,HIROSHIMA	0.693	0.979	1.53	0.019	±	0.0078	0.019	±	0.0079	0.011	±	0.0044	0.0070	±	0.0029	
Takase-machi,KAGAWA	0.729	1.12	1.51	0.013	±	0.0056	0.011	±	0.0050	0.0099	±	0.0040	0.0065	±	0.0027	
Kawauchi-machi,EHIME	0.686	1.06	1.54	0.015	±	0.0063	0.014	±	0.0060	0.0072	±	0.0040	0.0047	±	0.0026	
Kochi,KOCHI	0.732	1.08	1.59	0.022	±	0.0065	0.020	±	0.0060	0.012	±	0.0042	0.0076	±	0.0026	
Yasu-machi,FUKUOKA	0.724	1.12	1.53	0.014	±	0.0065	0.013	±	0.0059	0.0068	±	0.0042	0.0045	±	0.0027	
Koshi-machi,KUMAMOTO	0.737	1.11	1.63	0.036	±	0.0076	0.032	±	0.0069	0.011	±	0.0042	0.0070	±	0.0026	
Kuju-machi,OITA	0.728	1.11	1.60	0.019	±	0.0062	0.017	±	0.0056	0.060	±	0.0073	0.037	±	0.0046	
Takaharu-machi,MIYAZAKI	0.714	1.08	1.54	0.018	±	0.0060	0.016	±	0.0056	0.053	±	0.0068	0.034	±	0.0044	
Kanoya,KAGOSHIMA	0.713	1.10	1.62	0.0049	±	0.0054	0.0045	±	0.0049	0.026	±	0.0057	0.016	±	0.0035	
Sep.2002																
	Tonami,TOYAMA	0.701	1.15	1.50	0.017	±	0.0070	0.015	±	0.0061	0.029	±	0.0060	0.020	±	0.0040
Oct.2002																
	Yamato-machi,SAGA	0.782	1.20	1.63	0.012	±	0.0068	0.010	±	0.0056	0.012	±	0.0047	0.0073	±	0.0029
Nov.2002																
	Sapporo,HOKKAIDO	0.755	1.19	1.71	0.026	±	0.0073	0.022	±	0.0061	0.029	±	0.0060	0.017	±	0.0035
	Hachijo-machi,TOKYO	0.719	1.04	1.32	0.037	±	0.0081	0.036	±	0.0078	0.017	±	0.0045	0.013	±	0.0034
	Iwamuro-mura,NIIGATA	0.780	1.15	1.52	0.016	±	0.0066	0.014	±	0.0057	0.0081	±	0.0044	0.0053	±	0.0029
	Katsuyama,FUKUI	0.761	1.14	1.63	0.0014	±	0.0057	0.0012	±	0.0050	0.017	±	0.0051	0.010	±	0.0031
	Sakai,Habikino,OSAKA	0.731	1.06	1.46	0.011	±	0.0062	0.011	±	0.0059	0.0030	±	0.0037	0.0021	±	0.0026
	Matsue,SHIMANE	0.736	1.17	1.51	0.018	±	0.0067	0.015	±	0.0057	0.0000	±	0.0036	0.0000	±	0.0024
	Chiyoda-machi,HIROSHIMA	0.706	1.15	1.49	0.0087	±	0.0056	0.0076	±	0.0049	0.017	±	0.0052	0.011	±	0.0035
	Kochi,KOCHI	0.728	1.14	1.59	0.033	±	0.0079	0.029	±	0.0070	0.011	±	0.0044	0.0066	±	0.0028
	Yasu-machi,FUKUOKA	0.719	1.15	1.52	0.022	±	0.0068	0.019	±	0.0059	0.0000	±	0.0038	0.0000	±	0.0025
	Kanoya,KAGOSHIMA	0.746	1.16	1.56	0.030	±	0.0075	0.026	±	0.0064	0.017	±	0.0046	0.011	±	0.0030
Dec.2002																
	Akita,AKITA	0.729	1.14	1.57	0.016	±	0.0073	0.015	±	0.0065	0.013	±	0.0049	0.0083	±	0.0031
Jan.2003																
	Sakai,Habikino,OSAKA	0.746	1.14	1.48	0.014	±	0.0071	0.012	±	0.0062	0.0023	±	0.0039	0.0015	±	0.0027
	Matsue,SHIMANE	0.729	1.17	1.45	0.035	±	0.0090	0.030	±	0.0077	0.0000	±	0.0037	0.0000	±	0.0026
	Kanoya,KAGOSHIMA	0.751	1.13	1.60	0.023	±	0.0067	0.021	±	0.0059	0.012	±	0.0042	0.0072	±	0.0026

Location	Ash (w/v%)	Ca (g/L)	K (g/L)	Sr-90						Cs-137						
				(Bq/L)			(Bq/g Ca)			(Bq/L)			(Bq/g K)			
Feb.2003																
Sapporo,HOKKAIDO	0.754	1.27	1.63	0.036	±	0.0083	0.028	±	0.0065	0.016	±	0.0052	0.010	±	0.0032	
Aomori,AOMORI	0.748	1.21	1.47	0.047	±	0.0093	0.038	±	0.0077	0.19	±	0.013	0.13	±	0.008	
Takizawa-mura,IWATE	0.696	1.00	1.45	0.027	±	0.0070	0.027	±	0.0070	0.059	±	0.0072	0.041	±	0.0050	
Mito,IBARAKI	0.746	1.17	1.52	0.015	±	0.0065	0.013	±	0.0055	0.0080	±	0.0035	0.0053	±	0.0023	
Nishinasuno-machi,TOCHIGI	0.676	1.03	1.46	0.027	±	0.0071	0.027	±	0.0070	0.025	±	0.0051	0.017	±	0.0035	
Fujimi-mura,GUNMA	0.689	1.15	1.50	0.010	±	0.0056	0.0090	±	0.0049	0.016	±	0.0049	0.010	±	0.0033	
Yachimata,CHIBA	0.745	1.13	1.63	0.022	±	0.0076	0.019	±	0.0067	0.015	±	0.0050	0.0094	±	0.0031	
Hachijo-machi,TOKYO	0.683	1.01	1.38	0.020	±	0.0069	0.020	±	0.0068	0.0034	±	0.0032	0.0024	±	0.0023	
Iwamuro-mura,NIIGATA	0.767	1.14	1.57	0.017	±	0.0063	0.015	±	0.0055	0.012	±	0.0049	0.0074	±	0.0031	
Tonami,TOYAMA	0.764	1.18	1.64	0.024	±	0.0072	0.020	±	0.0060	0.033	±	0.0055	0.020	±	0.0034	
Oshimizu-machi,ISHIKAWA	0.746	1.33	1.55	0.022	±	0.0068	0.017	±	0.0051	0.0043	±	0.0043	0.0028	±	0.0028	
Katsuyama,FUKUI	0.738	1.29	1.53	0.015	±	0.0060	0.012	±	0.0046	0.0097	±	0.0048	0.0064	±	0.0031	
Kasamatsu-machi,GIFU	0.729	1.15	1.48	0.011	±	0.0058	0.0093	±	0.0050	0.0072	±	0.0045	0.0048	±	0.0031	
Ouchiyama-mura,MIE	0.729	1.11	1.45	0.0095	±	0.0059	0.0086	±	0.0054	0.0015	±	0.0034	0.0010	±	0.0023	
Hino-machi,SHIGA	0.759	1.28	1.60	0.011	±	0.0061	0.0085	±	0.0048	0.0019	±	0.0044	0.0012	±	0.0028	
Mihara-machi,HYOGO	0.718	1.08	1.61	0.030	±	0.0078	0.027	±	0.0073	0.0019	±	0.0040	0.0012	±	0.0025	
Ouda-machi,NARA	0.709	1.22	1.38	0.031	±	0.0075	0.025	±	0.0061	0.0000	±	0.0038	0.0000	±	0.0028	
Chiyoda-machi,HIROSHIMA	0.724	1.14	1.56	0.019	±	0.0066	0.017	±	0.0058	0.0082	±	0.0047	0.0052	±	0.0030	
Kamiita-machi,TOKUSHIMA	0.742	1.16	1.56	0.020	±	0.0067	0.017	±	0.0058	0.0007	±	0.0030	0.0004	±	0.0019	
Takase-machi,KAGAWA	0.731	1.16	1.53	0.021	±	0.0069	0.018	±	0.0059	0.0068	±	0.0039	0.0044	±	0.0026	
Kawauchi-machi,EHIME	0.717	1.11	1.54	0.019	±	0.0069	0.017	±	0.0062	0.0000	±	0.0035	0.0000	±	0.0023	
Kochi,KOCHI	0.747	1.15	1.65	0.015	±	0.0064	0.013	±	0.0056	0.0067	±	0.0043	0.0041	±	0.0026	
Yasu-machi,FUKUOKA	0.721	1.13	1.52	0.024	±	0.0070	0.022	±	0.0062	0.0034	±	0.0034	0.0022	±	0.0022	
Koshi-machi,KUMAMOTO	0.748	1.14	1.68	0.022	±	0.0071	0.020	±	0.0062	0.016	±	0.0050	0.0094	±	0.0030	
Kuju-machi,OITA	0.748	1.17	1.63	0.0045	±	0.0054	0.0039	±	0.0046	0.051	±	0.0070	0.031	±	0.0043	
Takaharu-machi,MIYAZAKI	0.737	1.15	1.59	0.021	±	0.0068	0.018	±	0.0059	0.066	±	0.0072	0.041	±	0.0045	
Mar.2003																
Takane-machi,YAMANASHI	0.696	1.11	1.41	0.030	±	0.0078	0.027	±	0.0070	0.0098	±	0.0042	0.0070	±	0.0030	

(10)-2

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

(from Apr.2002 to Mar.2003)

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 2002															
Kyoto,KYOTO	0.723	1.11	1.59	0.017	±	0.0065	0.016	±	0.0059	0.011	±	0.0040	0.0068	±	0.0025
Jun.2002															
Rifu-machi,MIYAGI	0.830	1.25	1.84	0.024	±	0.0079	0.019	±	0.0063	0.029	±	0.0057	0.016	±	0.0031
Fukushima,FUKUSHIMA	0.734	1.11	1.62	0.0039	±	0.0062	0.0036	±	0.0056	0.014	±	0.0047	0.0086	±	0.0029
Aug.2002															
Sapporo,HOKKAIDO	0.722	1.27	1.51	0.025	±	0.0078	0.020	±	0.0061	0.039	±	0.0065	0.026	±	0.0043
Akita,AKITA	0.706	1.17	1.45	0.020	±	0.0073	0.017	±	0.0062	0.017	±	0.0050	0.011	±	0.0035
Yamagata,YAMAGATA	0.722	1.19	1.53	0.017	±	0.0071	0.014	±	0.0060	0.0070	±	0.0041	0.0045	±	0.0027
Saitama,SAITAMA	0.720	1.14	1.51	0.0059	±	0.0053	0.0052	±	0.0046	0.0091	±	0.0044	0.0061	±	0.0029
Shinjuku,TOKYO	0.691	1.17	1.45	0.028	±	0.0076	0.024	±	0.0065	0.031	±	0.0060	0.021	±	0.0041
Yokohama,KANAGAWA	0.740	1.37	1.53	0.015	±	0.0071	0.011	±	0.0052	0.014	±	0.0046	0.0088	±	0.0030
Niigata,NIIGATA	0.749	1.13	1.66	0.023	±	0.0073	0.020	±	0.0065	0.0062	±	0.0040	0.0037	±	0.0024
Fukui,FUKUI	0.731	1.10	1.63	0.025	±	0.0085	0.023	±	0.0078	0.014	±	0.0047	0.0086	±	0.0029
Nagano,NAGANO	0.652	1.08	1.40	0.014	±	0.0069	0.013	±	0.0063	0.024	±	0.0057	0.017	±	0.0041
Shizuoka,SHIZUOKA	0.719	1.09	1.62	0.022	±	0.0072	0.020	±	0.0066	0.023	±	0.0055	0.014	±	0.0034
Nagoya,AICHI	0.704	1.13	1.50	0.021	±	0.0068	0.018	±	0.0060	0.0035	±	0.0040	0.0023	±	0.0026
Osaka,OSAKA	0.731	1.10	1.51	0.011	±	0.0062	0.0098	±	0.0057	0.011	±	0.0046	0.0073	±	0.0030
Tohoku-machi,TOTTORI	0.726	1.08	1.49	0.024	±	0.0073	0.023	±	0.0068	0.010	±	0.0043	0.0069	±	0.0029
Matsue,SHIMANE	0.733	1.10	1.61	0.010	±	0.0058	0.0095	±	0.0053	0.046	±	0.0067	0.029	±	0.0042
Okayama,OKAYAMA	0.730	1.10	1.54	0.012	±	0.0061	0.011	±	0.0056	0.014	±	0.0046	0.0092	±	0.0030
Hirosshima,HIROSHIMA	0.690	1.03	1.44	0.026	±	0.0068	0.026	±	0.0066	0.053	±	0.0070	0.037	±	0.0049
Yamaguchi,YAMAGUCHI	0.712	1.09	1.51	0.011	±	0.0055	0.0099	±	0.0050	0.011	±	0.0041	0.0075	±	0.0028
Kawachi-machi,EHIME	0.673	1.01	1.52	0.010	±	0.0061	0.010	±	0.0061	0.0096	±	0.0043	0.0063	±	0.0028
Kochi,KOCHI	0.710	1.08	1.56	0.023	±	0.0081	0.021	±	0.0076	0.0077	±	0.0042	0.0050	±	0.0027
Chikushino,FUKUOKA	0.700	1.05	1.47	0.024	±	0.0063	0.023	±	0.0060	0.011	±	0.0043	0.0074	±	0.0029
Nagasaki,NAGASAKI	0.728	1.07	1.45	0.022	±	0.0062	0.021	±	0.0058	0.0084	±	0.0040	0.0058	±	0.0028
Kagoshima,KAGOSHIMA	0.721	1.10	1.58	0.013	±	0.0060	0.012	±	0.0055	0.0092	±	0.0044	0.0058	±	0.0028
Yonashiro-machi,OKINAWA	0.714	1.09	1.56	0.013	±	0.0056	0.012	±	0.0051	0.014	±	0.0042	0.0088	±	0.0027

Location	Ash (w/v%)	Ca (g/L)	K (g/L)	Sr-90						Cs-137						
				(Bq/L)			(Bq/g Ca)			(Bq/L)			(Bq/g K)			
Sep.2002																
Rifu-machi, MIYAGI	0.717	1.10	1.54	0.024	±	0.0073	0.022	±	0.0066	0.0098	±	0.0049	0.0064	±	0.0032	
Shingu, WAKAYAMA	0.711	1.12	1.53	0.024	±	0.0075	0.021	±	0.0067	0.0047	±	0.0037	0.0031	±	0.0024	
Nov.2002																
Kyoto, KYOTO	0.739	1.19	1.59	0.021	±	0.0069	0.017	±	0.0058	0.012	±	0.0041	0.0075	±	0.0026	
Jan.2003																
Yokohama, KANAGAWA	0.748	1.15	1.59	0.018	±	0.0068	0.016	±	0.0059	0.025	±	0.0062	0.016	±	0.0039	
Osaka, OSAKA	0.746	1.13	1.57	0.021	±	0.0068	0.018	±	0.0060	0.010	±	0.0045	0.0065	±	0.0029	
Matsue, SHIMANE	0.741	1.16	1.50	0.015	±	0.0064	0.013	±	0.0055	0.0000	±	0.0035	0.0000	±	0.0023	
Kagoshima, KAGOSHIMA	0.744	1.14	1.51	0.026	±	0.0069	0.023	±	0.0061	0.021	±	0.0050	0.014	±	0.0033	
Feb.2003																
Sapporo, HOKKAIDO	0.696	1.12	1.49	0.016	±	0.0062	0.014	±	0.0056	0.017	±	0.0051	0.011	±	0.0034	
Yamagata, YAMAGATA	0.715	1.14	1.52	0.026	±	0.0068	0.023	±	0.0060	0.0052	±	0.0044	0.0034	±	0.0029	
Fukushima, FUKUSHIMA	0.751	1.17	1.62	0.011	±	0.0059	0.0094	±	0.0051	0.014	±	0.0048	0.0087	±	0.0030	
Saitama, SAITAMA	0.725	1.12	1.53	0.011	±	0.0061	0.0096	±	0.0054	0.0089	±	0.0050	0.0058	±	0.0033	
Shinjuku, TOKYO	0.654	1.04	1.34	0.016	±	0.0062	0.015	±	0.0059	0.017	±	0.0045	0.013	±	0.0034	
Niigata, NIIGATA	0.760	1.16	1.60	0.020	±	0.0065	0.017	±	0.0056	0.0042	±	0.0043	0.0026	±	0.0027	
Fukui, FUKUI	0.730	1.23	1.53	0.010	±	0.0054	0.0083	±	0.0044	0.0036	±	0.0043	0.0023	±	0.0028	
Shizuoka, SHIZUOKA	0.735	1.14	1.50	0.016	±	0.0064	0.014	±	0.0056	0.0076	±	0.0042	0.0051	±	0.0028	
Nagoya, AICHI	0.724	1.14	1.55	0.025	±	0.0070	0.022	±	0.0061	0.028	±	0.0052	0.018	±	0.0034	
Shingu, WAKAYAMA	0.717	1.10	1.49	0.0083	±	0.0056	0.0076	±	0.0051	0.0027	±	0.0032	0.0018	±	0.0022	
Tohaku-machi, TOTTORI	0.740	1.17	1.60	0.017	±	0.0065	0.015	±	0.0055	0.014	±	0.0041	0.0089	±	0.0026	
Okayama, OKAYAMA	0.730	1.13	1.50	0.011	±	0.0058	0.0094	±	0.0051	0.0063	±	0.0036	0.0042	±	0.0024	
Hiroshima, HIROSHIMA	0.717	1.13	1.54	0.024	±	0.0070	0.021	±	0.0062	0.077	±	0.0086	0.050	±	0.0056	
Yamaguchi, YAMAGUCHI	0.740	1.15	1.61	0.015	±	0.0066	0.013	±	0.0057	0.0074	±	0.0044	0.0046	±	0.0027	
Kawauchi-machi, EHIME	0.711	1.11	1.53	0.0056	±	0.0054	0.0051	±	0.0049	0.0011	±	0.0043	0.0007	±	0.0028	
Kochi, KOCHI	0.734	1.14	1.56	0.0071	±	0.0057	0.0062	±	0.0050	0.0053	±	0.0038	0.0034	±	0.0024	
Chikushino, FUKUOKA	0.704	1.09	1.47	0.028	±	0.0072	0.026	±	0.0066	0.021	±	0.0050	0.015	±	0.0034	
Nagasaki, NAGASAKI	0.727	1.12	1.50	0.019	±	0.0066	0.017	±	0.0059	0.023	±	0.0050	0.015	±	0.0034	
Yonashiro-machi, OKINAWA	0.706	1.08	1.45	0.015	±	0.0064	0.014	±	0.0059	0.0024	±	0.0029	0.0016	±	0.0020	
Mar.2003																
Nagano, NAGANO	0.666	1.04	1.38	0.020	±	0.0067	0.020	±	0.0065	0.0085	±	0.0042	0.0062	±	0.0030	

(10)-3

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

(from Apr.2002 to Mar.2003)

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

Location	Ash	Ca	K	Sr-90				Cs-137							
	(%)	(g/kg)	(g/kg)	(Bq/kg)		(Bq/g Ca)		(Bq/kg)		(Bq/g K)					
Jun.2002															
Sample A	7.97	12.7	19.4	0.35	±	0.027	0.028	±	0.0021	0.68	±	0.030	0.035	±	0.0016
Sample B	2.47	3.48	5.93	0.037	±	0.0078	0.011	±	0.0022	0.054	±	0.0075	0.0091	±	0.0013
Sample C	7.92	12.5	18.8	0.49	±	0.031	0.039	±	0.0025	0.95	±	0.035	0.051	±	0.0018
Sample D	2.45	3.65	5.76	0.039	±	0.0080	0.011	±	0.0022	0.024	±	0.0059	0.0042	±	0.0010
Sample E	3.66	6.08	7.91	0.12	±	0.013	0.019	±	0.0022	0.11	±	0.010	0.014	±	0.0013
Sample F	2.39	3.54	5.28	0.042	±	0.0083	0.012	±	0.0024	0.14	±	0.011	0.027	±	0.0021
Jan.2003															
Sample A	7.91	12.2	17.0	0.24	±	0.023	0.020	±	0.0019	0.30	±	0.020	0.018	±	0.0012
Sample B	2.44	3.46	5.37	0.037	±	0.0078	0.011	±	0.0023	0.055	±	0.0075	0.010	±	0.0014
Sample C	8.02	12.6	17.2	0.43	±	0.031	0.034	±	0.0025	1.6	±	0.04	0.091	±	0.0026
Sample D	2.38	3.59	5.07	0.022	±	0.0068	0.0062	±	0.0019	0.017	±	0.0051	0.0033	±	0.0010
Sample E	3.63	5.99	7.19	0.11	±	0.013	0.018	±	0.0021	0.11	±	0.010	0.016	±	0.0014
Sample F	2.39	3.37	5.04	0.030	±	0.0074	0.0088	±	0.0022	0.13	±	0.011	0.026	±	0.0021

(11)-1

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

(from Apr.2002 to Mar.2003)

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

Location	Ash	Ca	K	Sr-90			Cs-137		
	(%)	(g/kg wet)	(g/kg wet)	(Bq/kg wet)	(Bq/g Ca)	(Bq/kg wet)	(Bq/g K)		
<u>(Leafy vegetables)</u>									
Jun.2002									
Tahara-machi,AICHI	1.16	0.388	5.32	0.029	± 0.0072	0.076	± 0.019	0.0000	± 0.0038
Jul.2002									
Oda,SHIMANE	1.17	1.47	3.15	0.82	± 0.033	0.56	± 0.022	1.5	± 0.03
Aug.2002									
Eniwa,HOKKAIDO	1.46	0.274	6.84	0.030	± 0.0080	0.11	± 0.029	0.0021	± 0.0040
Oct.2002									
Mutsu,AOMORI	0.472	0.238	1.91	0.14	± 0.015	0.59	± 0.064	0.0095	± 0.0044
Tamayama-mura,IWATE	0.554	0.468	2.56	0.14	± 0.015	0.29	± 0.032	0.015	± 0.0049
Utsunomiya,TOCHIGI	0.574	0.512	2.11	0.23	± 0.018	0.44	± 0.036	0.042	± 0.0069
Saku,NAGANO	1.91	0.737	9.08	0.066	± 0.010	0.090	± 0.014	0.0021	± 0.0043
Kurayoshi,TOTTORI	1.43	0.815	4.68	0.23	± 0.018	0.29	± 0.022	0.072	± 0.0088
Nov.2002									
Sannohe-machi,AOMORI	0.531	0.419	1.89	0.11	± 0.013	0.26	± 0.030	0.085	± 0.0087
Fukushima,FUKUSHIMA	1.62	1.23	5.47	0.088	± 0.012	0.072	± 0.0095	0.015	± 0.0051
Mito,IBARAKI	2.08	0.926	8.67	0.10	± 0.013	0.11	± 0.015	0.023	± 0.0059
Chiba,CHIBA	1.45	0.505	6.21	0.010	± 0.0062	0.020	± 0.012	0.0020	± 0.0039
Toyama,TOYAMA	1.17	0.538	5.25	0.059	± 0.0094	0.11	± 0.018	0.015	± 0.0044
Ono,FUKUI	2.10	0.624	10.6	0.038	± 0.0086	0.060	± 0.014	0.0025	± 0.0042
Kakamigahara,GIFU	1.83	0.868	7.58	0.018	± 0.0078	0.021	± 0.0090	0.022	± 0.0057
Kusu-machi,MIE	1.38	0.630	5.54	0.079	± 0.011	0.13	± 0.018	0.0023	± 0.0041
Kasai,HYOGO	2.00	0.508	8.74	0.062	± 0.011	0.12	± 0.021	0.0076	± 0.0052
Takamatsu,KAGAWA	1.84	0.828	8.45	0.034	± 0.0077	0.041	± 0.0094	0.0004	± 0.0043
Matsuyama,EHIME	1.91	0.552	7.88	0.064	± 0.010	0.12	± 0.018	0.0000	± 0.0034
Kubokawa-machi,KOCHI	1.76	0.504	7.09	0.068	± 0.011	0.14	± 0.022	0.0033	± 0.0045
Shime-machi,FUKUOKA	1.96	1.15	8.29	0.028	± 0.0079	0.024	± 0.0069	0.013	± 0.0053
Saga,SAGA	1.84	0.788	8.35	0.050	± 0.0090	0.063	± 0.011	0.0004	± 0.0042
Koshi-machi,KUMAMOTO	1.98	0.554	9.53	0.10	± 0.014	0.19	± 0.025	0.0012	± 0.0040

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)	
Dec.2002											
Maebashi,GUNMA	1.78	0.602	6.68	0.022	± 0.0072	0.036	± 0.012	0.023	± 0.0058	0.0034	± 0.00087
Takane-machi,YAMANASHI	2.07	0.569	8.90	0.12	± 0.013	0.21	± 0.023	0.0073	± 0.0043	0.00082	± 0.00049
Gotenba,SHIZUOKA	1.66	0.693	6.76	0.054	± 0.0089	0.078	± 0.013	0.029	± 0.0060	0.0043	± 0.00089
Azuchi-machi,SHIGA	1.60	0.552	6.96	0.033	± 0.0082	0.060	± 0.015	0.0049	± 0.0041	0.00070	± 0.00059
Haibara-machi,NARA	1.35	0.315	5.47	0.037	± 0.0086	0.12	± 0.027	0.0000	± 0.0036	0.00000	± 0.00065
Hiroshima,HIROSHIMA	1.75	0.506	7.79	0.015	± 0.0072	0.030	± 0.014	0.0037	± 0.0043	0.00048	± 0.00055
Usa,OITA	1.71	0.353	7.49	0.035	± 0.0082	0.10	± 0.023	0.0021	± 0.0044	0.00028	± 0.00059
Matsumoto-machi,KAGOSHIMA	1.50	0.730	4.41	0.033	± 0.0075	0.046	± 0.010	0.088	± 0.0091	0.020	± 0.0021
Jan.2003											
Kumatori-machi,OSAKA	0.496	0.268	1.93	0.052	± 0.0091	0.20	± 0.034	0.027	± 0.0055	0.014	± 0.0028
Yuya-machi,YAMAGUCHI	1.91	0.562	7.51	0.10	± 0.013	0.18	± 0.023	0.0058	± 0.0044	0.00077	± 0.00058
Ishii-machi,TOKUSHIMA	1.82	0.511	7.28	0.023	± 0.0074	0.045	± 0.014	0.011	± 0.0045	0.0016	± 0.00062
Takanabe-machi,MIYAZAKI	1.77	0.376	7.58	0.068	± 0.010	0.18	± 0.027	0.0071	± 0.0040	0.00094	± 0.00053
Feb.2003											
Shingu,WAKAYAMA <u>(Root vegetables)</u>	0.652	0.278	2.62	0.074	± 0.010	0.27	± 0.037	0.012	± 0.0042	0.0047	± 0.0016
Jun.2002											
Tahara-machi,AICHI	0.682	0.185	3.00	0.014	± 0.0057	0.077	± 0.031	0.0000	± 0.0034	0.0000	± 0.0011
Jul.2002											
Mutsu,AOMORI	0.806	0.0388	3.84	0.015	± 0.0061	0.39	± 0.16	0.0028	± 0.0042	0.0007	± 0.0011
Kumatori-machi,OSAKA	0.364	0.128	1.56	0.026	± 0.0071	0.20	± 0.056	0.0027	± 0.0039	0.0017	± 0.0025
Oda,SHIMANE	0.567	0.169	2.56	0.55	± 0.027	3.3	± 0.16	0.29	± 0.015	0.11	± 0.006
Aug.2002											
Eniwa,HOKKAIDO	0.581	0.167	2.59	0.17	± 0.016	1.0	± 0.10	0.013	± 0.0046	0.0048	± 0.0018
Oct.2002											
Tamayama-mura,IWATE	0.607	0.279	2.81	0.090	± 0.013	0.32	± 0.047	0.0085	± 0.0044	0.0030	± 0.0016
Saku,NAGANO	0.453	0.171	2.19	0.025	± 0.0076	0.15	± 0.044	0.0043	± 0.0042	0.0020	± 0.0019
Nov.2002											
Sannohe-machi,AOMORI	0.552	0.179	2.35	0.091	± 0.012	0.51	± 0.067	0.014	± 0.0047	0.0058	± 0.0020
Fukushima,FUKUSHIMA	0.474	0.259	1.80	0.035	± 0.0084	0.14	± 0.032	0.0000	± 0.0036	0.0000	± 0.0020
Mito,IBARAKI	0.544	0.335	2.43	0.043	± 0.0096	0.13	± 0.029	0.0000	± 0.0035	0.0000	± 0.0014
Utsunomiya,TOCHIGI	0.496	0.278	2.06	0.10	± 0.013	0.36	± 0.046	0.025	± 0.0059	0.012	± 0.0029
Chiba,CHIBA	0.437	0.320	1.56	0.12	± 0.013	0.36	± 0.040	0.0053	± 0.0038	0.0034	± 0.0025

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)			
Kosugi-machi, TOYAMA	0.362	0.144	1.41	0.010 ± 0.0055	0.071 ± 0.038		0.0037 ± 0.0033	0.0026 ± 0.0023			
Fukui, FUKUI	0.430	0.162	1.96	0.0064 ± 0.0054	0.040 ± 0.033		0.0000 ± 0.0034	0.0000 ± 0.0017			
Kakamigahara, Gifu	0.532	0.194	2.51	0.087 ± 0.013	0.45 ± 0.067		0.0000 ± 0.0033	0.0000 ± 0.0013			
Hamamatsu, SHIZUOKA	0.532	0.142	2.33	0.036 ± 0.0076	0.25 ± 0.054		0.0000 ± 0.0031	0.0000 ± 0.0013			
Gotenba, SHIZUOKA	0.537	0.256	2.20	0.098 ± 0.012	0.38 ± 0.047		0.026 ± 0.0055	0.012 ± 0.0025			
Meiwa-machi, MIE	0.543	0.236	2.29	0.095 ± 0.012	0.40 ± 0.052		0.0004 ± 0.0034	0.0002 ± 0.0015			
Adogawa-machi, SHIGA	0.396	0.181	1.43	0.20 ± 0.018	1.1 ± 0.10		0.031 ± 0.0061	0.021 ± 0.0043			
Kasai, HYOGO	0.521	0.168	2.34	0.032 ± 0.0087	0.19 ± 0.052		0.0000 ± 0.0032	0.0000 ± 0.0014			
Kokufu-machi, TOTTORI	0.514	0.212	2.40	0.43 ± 0.025	2.0 ± 0.12		0.0012 ± 0.0038	0.0005 ± 0.0016			
Takamatsu, KAGAWA	0.537	0.189	2.56	0.022 ± 0.0086	0.12 ± 0.045		0.0019 ± 0.0037	0.0007 ± 0.0015			
Kubokawa-machi, KOCHI	0.522	0.151	2.22	0.12 ± 0.015	0.78 ± 0.097		0.0000 ± 0.0029	0.0000 ± 0.0013			
Shime-machi, FUKUOKA	0.485	0.224	1.93	0.0091 ± 0.0064	0.041 ± 0.029		0.0000 ± 0.0036	0.0000 ± 0.0019			
Saga, SAGA	0.631	0.203	3.21	0.031 ± 0.0079	0.15 ± 0.039		0.0000 ± 0.0038	0.0000 ± 0.0012			
Koshi-machi, KUMAMOTO	0.626	0.249	2.63	0.093 ± 0.012	0.38 ± 0.048		0.0016 ± 0.0037	0.0006 ± 0.0014			
Dec.2002											
Maebashi, GUNMA	0.435	0.220	1.72	0.020 ± 0.0064	0.091 ± 0.029		0.0085 ± 0.0041	0.0049 ± 0.0024			
Takane-machi, YAMANASHI	0.776	0.303	3.36	0.062 ± 0.010	0.20 ± 0.034		0.0023 ± 0.0036	0.0007 ± 0.0011			
Haibara-machi, NARA	0.475	0.216	1.90	0.014 ± 0.0069	0.066 ± 0.032		0.0000 ± 0.0027	0.0000 ± 0.0014			
Hiroshima, HIROSHIMA	0.442	0.246	1.94	0.060 ± 0.011	0.25 ± 0.046		0.0000 ± 0.0034	0.0000 ± 0.0018			
Usa, OITA	0.478	0.163	2.36	0.052 ± 0.0099	0.32 ± 0.061		0.0000 ± 0.0031	0.0000 ± 0.0013			
Kaimon-machi, KAGOSHIMA	0.487	0.174	2.01	0.026 ± 0.0068	0.15 ± 0.039		0.0029 ± 0.0031	0.0014 ± 0.0016			
Jan.2003											
Yuya-machi, YAMAGUCHI	0.488	0.248	1.86	0.056 ± 0.010	0.23 ± 0.041		0.0000 ± 0.0032	0.0000 ± 0.0017			
Ishii-machi, TOKUSHIMA	0.523	0.143	1.99	0.046 ± 0.0079	0.32 ± 0.055		0.0038 ± 0.0027	0.0019 ± 0.0014			
Takanabe-machi, MIYAZAKI	0.555	0.216	2.20	0.14 ± 0.014	0.65 ± 0.063		0.0000 ± 0.0027	0.0000 ± 0.0012			
Feb.2003											
Shingu, WAKAYAMA	0.426	0.187	1.80	0.062 ± 0.0092	0.33 ± 0.049		0.0017 ± 0.0031	0.0009 ± 0.0017			

(11)-2

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

(from Apr.2002 to Mar.2003)

Table (11)-2 : Strontium-90 and Cesium-137 in Vegetables(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)	
<u>(Leafy vegetables)</u>									
Jun.2002									
Rifu-machi,MIYAGI	2.43	0.488	10.4	0.051	± 0.010	0.10	± 0.021	0.0000	± 0.0039
Niigata,NIIGATA	1.34	0.375	6.00	0.015	± 0.0061	0.041	± 0.016	0.0000	± 0.0038
Sep.2002									
Saitama,SAITAMA	1.86	0.516	7.98	0.046	± 0.0093	0.089	± 0.018	0.0084	± 0.0048
Oct.2002									
Akita,AKITA	0.544	0.549	2.10	0.050	± 0.011	0.091	± 0.020	0.0000	± 0.0037
Yamagata,YAMAGATA	2.07	0.735	8.78	0.038	± 0.0081	0.052	± 0.011	0.014	± 0.0054
Kanazawa,ISHIKAWA	2.03	0.404	10.2	0.11	± 0.014	0.27	± 0.035	0.0004	± 0.0041
Nov.2002									
Shinjuku,TOKYO	1.84	0.516	8.05	0.058	± 0.010	0.11	± 0.020	0.0053	± 0.0045
Kyoto,KYOTO	1.82	0.768	6.90	0.031	± 0.0063	0.040	± 0.0081	0.0040	± 0.0028
Osaka,OSAKA	1.36	0.679	4.33	0.016	± 0.0083	0.024	± 0.012	0.0000	± 0.0034
Matsuyama,EHIME	1.89	0.514	7.94	0.036	± 0.0083	0.071	± 0.016	0.0048	± 0.0042
Yonashiro-machi,OKINAWA	1.56	0.971	4.19	0.013	± 0.0058	0.013	± 0.0060	0.0000	± 0.0034
Dec.2002									
Okayama,OKAYAMA	2.05	0.621	7.59	0.030	± 0.0079	0.049	± 0.013	0.0056	± 0.0032
Jan.2003									
Yokohama,KANAGAWA	1.86	0.660	7.20	0.027	± 0.0074	0.041	± 0.011	0.0097	± 0.0046
Nagasaki,NAGASAKI	1.63	0.645	6.19	0.071	± 0.010	0.11	± 0.016	0.0080	± 0.0041
<u>(Root vegetables)</u>									
Sep.2002									
Rifu-machi,MIYAGI	0.598	0.282	2.46	0.093	± 0.012	0.33	± 0.043	0.031	± 0.0060
Saitama,SAITAMA	0.489	0.155	2.16	0.15	± 0.015	0.94	± 0.099	0.0065	± 0.0041
Oct.2002									
Akita,AKITA	0.629	0.298	2.91	0.037	± 0.0099	0.13	± 0.033	0.0004	± 0.0038
Yamagata,YAMAGATA	0.352	0.205	1.42	0.030	± 0.0075	0.15	± 0.036	0.014	± 0.0047
Kanazawa,ISHIKAWA	0.514	0.167	2.24	0.0049	± 0.0073	0.029	± 0.044	0.0000	± 0.0035

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)	
Nov.2002											
Shinjuku,TOKYO	0.434	0.373	1.15	0.086	± 0.011	0.23	± 0.030	0.012	± 0.0044	0.010	± 0.0038
Niigata,NIIGATA	0.464	0.205	1.76	0.0032	± 0.0055	0.016	± 0.027	0.013	± 0.0046	0.0073	± 0.0026
Kyoto,KYOTO	0.639	0.270	2.50	0.11	± 0.011	0.40	± 0.042	0.0000	± 0.0025	0.00000	± 0.00099
Osaka,OSAKA	0.638	0.419	2.63	0.19	± 0.016	0.45	± 0.039	0.018	± 0.0051	0.0067	± 0.0019
Yonashiro-machi,OKINAWA	0.659	0.246	2.54	0.012	± 0.0058	0.049	± 0.024	0.0004	± 0.0034	0.0001	± 0.0013
Dec.2002											
Okayama,OKAYAMA	0.420	0.149	1.58	0.0000	± 0.0049	0.000	± 0.033	0.0000	± 0.0029	0.0000	± 0.0018
Jan.2003											
Yokohama,KANAGAWA	0.467	0.237	1.76	0.035	± 0.0084	0.15	± 0.036	0.0000	± 0.0032	0.0000	± 0.0018
Nagasaki,NAGASAKI	0.408	0.136	1.54	0.021	± 0.0067	0.15	± 0.049	0.0026	± 0.0034	0.0017	± 0.0022

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

(from Apr.2002 to Mar.2003)

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

Location	Ash	Ca	K	Sr-90				Cs-137			
	(%)	(g/kg)	(g/kg)	(Bq/kg)		(Bq/g Ca)		(Bq/kg)		(Bq/g K)	
Apr.2002											
Ikeda-machi,GIFU	4.72	3.00	17.9	0.81	± 0.064	0.27	± 0.021	0.11	± 0.022	0.0064	± 0.0012
Iwata,SHIZUOKA*	1.25	0.630	4.84	0.028	± 0.0072	0.045	± 0.011	0.0030	± 0.0036	0.00062	± 0.00075
Mifune-machi,KUMAMOTO	5.45	2.23	19.1	0.12	± 0.031	0.056	± 0.014	0.018	± 0.016	0.00094	± 0.00083
Ue-mura,KUMAMOTO	5.15	2.24	18.6	0.53	± 0.053	0.24	± 0.024	0.18	± 0.026	0.0095	± 0.0014
Miyakonojo,MIYAZAKI	5.27	2.46	21.1	0.13	± 0.033	0.054	± 0.014	0.69	± 0.050	0.033	± 0.0024
May 2002											
Shirakawa-machi,GIFU	4.74	1.90	19.0	0.28	± 0.041	0.15	± 0.021	0.10	± 0.021	0.0054	± 0.0011
Syuzenji-machi,SHIZUOKA*	1.31	0.736	4.81	0.23	± 0.018	0.32	± 0.025	0.18	± 0.012	0.037	± 0.0025
Kameyama,MIE	5.36	3.67	18.8	0.57	± 0.053	0.15	± 0.014	0.088	± 0.022	0.0047	± 0.0011
Odai-machi,MIE	5.05	2.10	19.5	0.20	± 0.032	0.096	± 0.015	0.10	± 0.022	0.0053	± 0.0011
Kaya-machi,KYOTO	5.20	2.98	19.0	0.77	± 0.067	0.26	± 0.023	0.11	± 0.024	0.0056	± 0.0012
Nara,NARA	5.15	1.68	19.9	0.18	± 0.034	0.11	± 0.020	0.13	± 0.023	0.0065	± 0.0012
Nara,NARA	5.41	2.62	20.6	0.26	± 0.040	0.099	± 0.015	0.16	± 0.026	0.0077	± 0.0012
Nachikatsuura-machi,WAKAYAMA	5.30	2.71	20.9	1.2	± 0.08	0.43	± 0.029	0.42	± 0.039	0.020	± 0.0019
Kawaminami-machi,MIYAZAKI	5.03	2.07	20.0	0.19	± 0.036	0.093	± 0.017	0.91	± 0.055	0.046	± 0.0027
Jun.2002											
Iruma,SAITAMA	5.39	2.13	20.4	0.25	± 0.040	0.12	± 0.019	0.24	± 0.029	0.012	± 0.0014
Tokorozawa,SAITAMA	4.86	2.31	18.2	0.24	± 0.039	0.10	± 0.017	0.24	± 0.029	0.013	± 0.0016
Uji,KYOTO	5.15	2.29	18.6	0.77	± 0.063	0.34	± 0.028	0.000	± 0.014	0.00000	± 0.00074
Chiran-machi,KAGOSHIMA	4.96	1.54	20.0	0.10	± 0.027	0.065	± 0.017	1.2	± 0.06	0.061	± 0.0030
Miyanojo-machi,KAGOSHIMA	5.86	2.95	22.4	0.27	± 0.042	0.092	± 0.014	0.43	± 0.040	0.019	± 0.0018

* g/kg wet : Ca,K

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

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

(from Apr.2002 to Mar.2003)

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

Location	Ash	Ca	K	Sr-90				Cs-137			
	(%)	(g/kg wet)	(g/kg wet)	(Bq/kg wet)		(Bq/g Ca)		(Bq/kg wet)		(Bq/g K)	
<u>(Ammodytes personatus)</u>											
Apr.2002											
Kobe, HYOGO	2.32	2.58	3.90	0.0000	±	0.0052	0.0000	±	0.0020	0.035	± 0.0067
<u>(Branchiostegus sp.)</u>											
Nov.2002											
Nagasaki, NAGASAKI	1.10	0.219	3.67	0.013	±	0.0052	0.059	±	0.024	0.12	± 0.010
<u>(Hexagrammos otakii)</u>											
Sep.2002											
Soma, FUKUSHIMA	1.33	0.553	3.69	0.0000	±	0.0057	0.000	±	0.010	0.13	± 0.010
<u>(Katsuwonus pelamis)</u>											
May 2002											
Tosa, KOCHI	1.25	0.122	4.04	0.0000	±	0.0059	0.000	±	0.049	0.20	± 0.014
<u>(Mugil cephalus cephalus)</u>											
Aug.2002											
Morodomi-machi, SAGA	1.26	0.990	3.45	0.0000	±	0.0052	0.0000	±	0.0053	0.042	± 0.0070
Dec.2002											
Ushimado-machi, OKAYAMA	1.43	0.521	4.09	0.017	±	0.0051	0.032	±	0.0098	0.065	± 0.0071
<u>(Oncorhynchus keta)</u>											
Sep.2002											
Urakawa-machi, HOKKAIDO	1.43	0.914	4.18	0.0098	±	0.0057	0.011	±	0.0062	0.074	± 0.0088
<u>(Pleuronectidae)</u>											
Jun.2002											
Rifu-machi, MIYAGI	3.57	8.95	2.95	0.014	±	0.0057	0.0015	±	0.00064	0.070	± 0.0084
Nov.2002											
Mutsu, AOMORI	1.27	0.293	3.91	0.0000	±	0.0044	0.000	±	0.015	0.097	± 0.0092
Niigata, NIIGATA	1.51	0.960	3.58	0.0059	±	0.0041	0.0062	±	0.0043	0.047	± 0.0067
Mikuni-machi, FUKUI	1.17	0.845	2.75	0.0000	±	0.0057	0.0000	±	0.0067	0.060	± 0.0078
Aji-machi, KAGAWA	3.06	6.82	3.56	0.020	±	0.0071	0.0030	±	0.0010	0.056	± 0.0075
Feb.2003											
Otake, HIROSHIMA	3.78	9.92	2.93	0.016	±	0.0073	0.0017	±	0.00074	0.054	± 0.0076

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)		
<u>(Pterocaesio diagramma)</u>												
Nov.2002												
Yonashiro-machi,OKINAWA <u>(Sardinops sp.)</u>	4.37	11.8	3.77	0.0043	±	0.0057	0.00037	±	0.00048	0.085	±	0.0089
Sep.2002												
Yamagata,YAMAGATA	2.57	5.22	2.39	0.0000	±	0.0044	0.00000	±	0.00084	0.052	±	0.0073
Jan.2003												
Nagano,NAGANO <u>(Scomber australasicus)</u>	3.19	5.04	3.12	0.0007	±	0.0046	0.00013	±	0.00090	0.043	±	0.0075
Feb.2003												
Chikura-machi,CHIBA <u>(Scomber sp.)</u>	1.21	0.205	3.54	0.0000	±	0.0054	0.000	±	0.026	0.13	±	0.010
Aug.2002												
Iyonada,EHIME	1.50	0.528	3.89	0.013	±	0.0064	0.024	±	0.012	0.096	±	0.0091
Nov.2002												
Osaka,OSAKA	1.19	0.151	3.11	0.0000	±	0.0069	0.000	±	0.046	0.092	±	0.0093
Dec.2002												
Kyoto,KYOTO	1.17	0.240	2.86	0.0056	±	0.0048	0.023	±	0.020	0.072	±	0.0081
Jan.2003												
Sea of Japan <u>(Sebastes inermis)</u>	1.33	0.144	3.82	0.0058	±	0.0064	0.041	±	0.045	0.13	±	0.011
Mar.2003												
Yamaguchi,YAMAGUCHI <u>(Sebastiscus marmoratus)</u>	5.19	14.9	3.07	0.014	±	0.0065	0.00093	±	0.00043	0.11	±	0.010
May 2002												
Hamada,SHIMANE <u>(Seriola quinqueradiata)</u>	6.03	18.9	2.21	0.039	±	0.0085	0.0021	±	0.00045	0.079	±	0.0090
Sep.2002												
Monzen-machi,ISHIKAWA <u>(Sillago sp.)</u>	1.52	0.762	4.45	0.018	±	0.0065	0.023	±	0.0085	0.13	±	0.011
Jun.2002												
Minamichita-machi,AICHI	3.49	8.24	3.56	0.0017	±	0.0054	0.00021	±	0.00066	0.052	±	0.0080

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)					
<u>(Sparidae)</u>															
May 2002															
Kumanonada, MIE	1.33	0.295	4.50	0.0007	±	0.0064	0.002	±	0.022	0.10	±	0.010	0.023	±	0.0023
Jul. 2002															
Oga, AKITA	1.45	1.18	3.69	0.0000	±	0.0045	0.0000	±	0.0038	0.087	±	0.0096	0.024	±	0.0026
Fukuoka, FUKUOKA	1.27	0.531	4.00	0.0028	±	0.0052	0.0053	±	0.0099	0.097	±	0.0091	0.024	±	0.0023
<u>(Spratelloides gracilis)</u>															
Nov. 2002															
Akune, KAGOSHIMA	3.23	6.45	3.51	0.0000	±	0.0040	0.00000	±	0.00062	0.15	±	0.012	0.042	±	0.0033
<u>(Trachurus japonicus)</u>															
Oct. 2002															
Odawara, KANAGAWA	1.61	0.248	5.12	0.0093	±	0.0048	0.038	±	0.019	0.12	±	0.010	0.024	±	0.0020
<u>(Trachurus sp.)</u>															
Oct. 2002															
Hachijo-machi, TOKYO	1.87	2.58	4.13	0.0000	±	0.0044	0.0000	±	0.0017	0.12	±	0.011	0.029	±	0.0025
Nov. 2002															
Shizuoka, SHIZUOKA	3.47	7.81	2.66	0.0065	±	0.0056	0.00083	±	0.00071	0.095	±	0.0094	0.036	±	0.0035
♂ Feb. 2003															
Shingu, WAKAYAMA	1.54	1.66	3.37	0.0000	±	0.0040	0.0000	±	0.0024	0.15	±	0.011	0.044	±	0.0033

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

(from Apr.2002 to Mar.2003)

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

Location	Ash	Ca	K	Sr-90			Cs-137		
	(%)	(g/kg wet)	(g/kg wet)	(Bq/kg wet)	(Bq/g Ca)	(Bq/g K)	(Bq/kg wet)	(Bq/g K)	
<u>(Carassius sp.)</u>									
Jul.2002									
Barato-lake, HOKKAIDO	5.35	14.2	4.27	0.57 ± 0.028	0.040 ± 0.0019		0.033 ± 0.0070	0.0076 ± 0.0016	
Nov.2002									
Niigata, NIIGATA	1.28	0.875	3.36	0.060 ± 0.011	0.069 ± 0.012		0.14 ± 0.011	0.042 ± 0.0032	
Dec.2002									
Mikata-machi, FUKUI	1.24	1.32	3.13	0.048 ± 0.011	0.037 ± 0.0083		0.13 ± 0.011	0.043 ± 0.0035	
Uji, KYOTO	4.48	13.7	2.56	0.51 ± 0.025	0.037 ± 0.0018		0.0000 ± 0.0031	0.0000 ± 0.0012	
<u>(Cyprinus carpio)</u>									
May 2002									
Kasumigaura-lake, IBARAKI	1.15	0.326	3.77	0.025 ± 0.0081	0.075 ± 0.025		0.19 ± 0.013	0.051 ± 0.0035	
Aug.2002									
Hachirogata-machi, AKITA	3.53	10.6	2.11	0.86 ± 0.036	0.081 ± 0.0034		0.14 ± 0.012	0.065 ± 0.0056	
Oct.2002									
Syobara, HIROSHIMA	1.03	0.271	3.49	0.036 ± 0.0085	0.13 ± 0.031		0.092 ± 0.0093	0.026 ± 0.0027	
<u>(Hypomesus nipponensis)</u>									
Dec.2002									
Suwa-lake, NAGANO	2.60	6.84	1.86	0.11 ± 0.013	0.016 ± 0.0019		0.076 ± 0.0085	0.041 ± 0.0046	
<u>(Salmo gairdneri)</u>									
Oct.2002									
Kumagaya, SAITAMA	1.16	0.173	3.99	0.0021 ± 0.0050	0.012 ± 0.029		0.11 ± 0.010	0.028 ± 0.0025	
<u>(Salvelinus leucomaenoides)</u>									
Sep.2002									
Fukushima, FUKUSHIMA	1.14	0.386	3.40	0.0048 ± 0.0064	0.012 ± 0.017		0.082 ± 0.0085	0.024 ± 0.0025	

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

(from Apr.2002 to Mar.2003)

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

Location	Ash	Ca	K	Sr-90				Cs-137			
	(%)	(g/kg wet)	(g/kg wet)	(Bq/kg wet)	(Bq/g Ca)			(Bq/kg wet)	(Bq/g K)		
<u>(Crassostrea gigas)</u>											
Feb.2003											
Hatsukaichi,HIROSHIMA	2.03	0.769	2.25	0.017	±	0.013	0.022	±	0.017	0.0098	±
<u>(Mytilus edulis)</u>											
Jun.2002											
Mutsu,AOMORI	2.35	0.351	1.02	0.0000	±	0.0056	0.000	±	0.016	0.011	±
<u>(Patinopecten yessoensis)</u>											
Nov.2002											
Mutsu,AOMORI	2.35	0.331	2.29	0.0085	±	0.0073	0.026	±	0.022	0.024	±
Mar.2003											
Yamada-machi,IWATE	2.29	0.559	3.07	0.0040	±	0.0052	0.0072	±	0.0093	0.022	±
<u>(Tapes philippinarum)</u>											
Apr.2002											
Ise,MIE	1.89	0.466	2.64	0.0071	±	0.0061	0.015	±	0.013	0.024	±
May 2002											
Konagai-machi,NAGASAKI	1.26	0.718	2.12	0.0000	±	0.0050	0.0000	±	0.0069	0.0085	±
Jun.2002											
Minamichita-machi,AICHI	1.94	0.762	3.53	0.0076	±	0.0065	0.0099	±	0.0085	0.032	±
<u>(Turbo(Batillus) cornutus)</u>											
Apr.2002											
Ryotsu,NIIGATA	2.66	0.724	2.33	0.015	±	0.0089	0.021	±	0.012	0.019	±
May 2002											
Monzen-machi,ISHIKAWA	3.26	2.34	2.45	0.0094	±	0.0060	0.0040	±	0.0026	0.019	±
Jun.2002											
Sakata,YAMAGATA	2.53	0.881	2.54	0.0000	±	0.0053	0.0000	±	0.0060	0.021	±

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

(from Apr.2002 to Mar.2003)

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

Location (Undaria pinnatifida)	Ash (%)	Ca (g/kg wet)	K (g/kg wet)	Sr-90				Cs-137			
	(Bq/kg wet)	(Bq/g Ca)	(Bq/kg wet)	(Bq/g K)							
Apr.2002											
Ryotsu,NIIGATA	2.04	0.611	5.38	0.044 ± 0.0090	0.072 ± 0.015	0.0078 ± 0.0047	0.0015 ± 0.00087				
Monzen-machi,ISHIKAWA	4.02	0.973	6.79	0.035 ± 0.0093	0.036 ± 0.0096	0.016 ± 0.0055	0.0024 ± 0.00081				
May 2002											
Fukaura-machi,AOMORI	2.99	0.918	6.71	0.011 ± 0.0066	0.012 ± 0.0072	0.027 ± 0.0060	0.0040 ± 0.00089				
Sakata,YAMAGATA	1.59	0.999	1.39	0.026 ± 0.0078	0.026 ± 0.0078	0.0025 ± 0.0046	0.0018 ± 0.0033				
Jun.2002											
Mutsu,AOMORI	2.95	0.855	8.40	0.017 ± 0.0068	0.020 ± 0.0080	0.031 ± 0.0063	0.0037 ± 0.00075				
Feb.2003											
Minamichita-machi,AICHI	2.40	0.733	7.89	0.040 ± 0.0076	0.054 ± 0.010	0.016 ± 0.0047	0.0020 ± 0.00060				
Toba,MIE	2.97	0.736	6.85	0.017 ± 0.0067	0.023 ± 0.0091	0.014 ± 0.0050	0.0021 ± 0.00073				
Hiroshima,HIROSHIMA	3.78	0.796	2.50	0.0092 ± 0.0071	0.012 ± 0.0089	0.026 ± 0.0056	0.010 ± 0.0022				
Shimabara,NAGASAKI	2.16	0.650	5.14	0.013 ± 0.0060	0.020 ± 0.0092	0.021 ± 0.0055	0.0042 ± 0.0011				

Sea fish

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

Fresh water fish

Japanese name	English name	Scientific name
Funa	Crucian carp	<i>Carassius</i> sp.
Iwana	Japanese char	<i>Salvelinus leucomaenis</i>
Koi	Carp	<i>Cyprinus carpio</i>
Nijimasu	Rainbow trout	<i>Salmo gairdneri</i>
Wakasagi	Pond smelt	<i>Hypomesus japonensis</i>

Shellfish

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

Seaweeds

68

Japanese name	English name	Scientific name
Wakame	Sea mustard	<i>Undaria pinnatifida</i>