



Radiation Measurement Results of 167 Items in June






When samples include natural radionuclides we can't deny the possibility of their radiation value counted together in our results.

The list below only shows the measurement results of the samples brought in.

Radioactive contamination level may differ according to sampling points even within the same address.

★Gamma-ray

Measuring instrument		Feature	Guide to lower limit※	
NaI Scintillation Spectrometer				
Product of ATOMTEX AT1320A 	Product of BERTHOLD LB2045 	<ul style="list-style-type: none"> Gamma-ray spectrometer with NaI scintillation detector. 	Food (Sample 1kg)	Lower limit 1.0Bq/Kg
			Soil (Sample 1kg)	Lower limit 2.5Bq/Kg
			Material (Sample 1kg)	Lower limit 1.0Bq/Kg
			Water (Sample 20L)	Lower limit 0.02Bq/L
Germanium Semiconductor detector				
ORTEC GEM30-70 		<ul style="list-style-type: none"> Radioactivity measurement series. Quantitative analysis based on "Gamma-ray spectrometry with germanium semiconductor detector." Relative efficiency 35% 	Food (Sample 2kg)	Lower limit 0.04Bq/Kg
			Soil (Sample 1kg)	Lower limit 0.06Bq/Kg
			Material (Sample 1kg)	Lower limit 0.06Bq/Kg
			Water (Sample 20L)	Lower limit 0.001Bq/L

※The lower limit varies depending on the sample weight and measurement time.

Measuring instrument: Germanium Semiconductor detector (Bq/kg raw: Weight of raw sample Bq/kg dry: Weight of dried sample)

Samples	Sampling Point	Sampling Month	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection		
			Cs137	Bq/kg raw	±	Bq/kg raw		Cs137	Bq/kg raw	Cs134
Rice	Hanawa, Higashi-shirakawa, Fukushima	Oct-19	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	1.3	Bq/kg raw
			Cs134	—	±	—		Cs134	1.3	Bq/kg raw
Germ Rice	Iwate Pref.	Oct-19	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	1.3	Bq/kg raw
			Cs134	—	±	—		Cs134	1.3	Bq/kg raw
Potato	Iwaki City	Jun-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	1.8	Bq/kg raw
			Cs134	—	±	—		Cs134	1.7	Bq/kg raw
Cabbage	Tairashimokabeya, Iwaki	Jun-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	1.8	Bq/kg raw
			Cs134	—	±	—		Cs134	1.7	Bq/kg raw
Turnip(pulp)	Tairashimokabeya, Iwaki	Jun-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	2.4	Bq/kg raw
			Cs134	—	±	—		Cs134	1.8	Bq/kg raw
Turnip (leaf)	Tairashimokabeya, Iwaki	Jun-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	2.6	Bq/kg raw
			Cs134	—	±	—		Cs134	2.1	Bq/kg raw
Cucumber	Fukushima Pref.	Jun-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	1.8	Bq/kg raw
			Cs134	—	±	—		Cs134	1.7	Bq/kg raw
Green onion	Ibaraki Pref.	May-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	2.3	Bq/kg raw
			Cs134	—	±	—		Cs134	2.1	Bq/kg raw
Leek	Hanawa, Higashi-shirakawa, Fukushima	Jun-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	1.5	Bq/kg raw
			Cs134	—	±	—		Cs134	1.4	Bq/kg raw
Japanese mustard spinach	Hanawa, Higashi-shirakawa, Fukushima	Jun-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	2.0	Bq/kg raw
			Cs134	—	±	—		Cs134	1.6	Bq/kg raw
Sunny Lettuce	Hanawa, Higashi-shirakawa, Fukushima	Jun-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	2.1	Bq/kg raw
			Cs134	—	±	—		Cs134	1.9	Bq/kg raw
Potherb mustard	Ibaraki Pref.	May-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	2.2	Bq/kg raw
			Cs134	—	±	—		Cs134	1.7	Bq/kg raw
Yam	Aomori Pref.	Jun-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	1.6	Bq/kg raw
			Cs134	—	±	—		Cs134	1.5	Bq/kg raw
Pumpkin	Ibaraki Pref.	Jun-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	1.5	Bq/kg raw
			Cs134	—	±	—		Cs134	1.5	Bq/kg raw

※"_" used in Measurement Result and Uncertainty shows that the value is below the detection limit.

But it does not necessary mean 0(zero)Bq/kg.

★Gamma-ray

(Bq/kg raw:Weight of raw sample Bq/kg dry:Weight of dried sample)

Samples	Sampling Point	Sampling Month	Measurement Result			Uncertainty		Total Amount of Cesium	Minimum Limit of Detection					
			Cs137	Bq/kg raw	—	±	Bq/kg raw		—	Bq/kg raw	Cs137	Bq/kg raw	Cs134	Bq/kg raw
Pumpkin	Ibaraki Pref.	Jun-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	2.0	Bq/kg raw	Cs134	1.5	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	1.5	Bq/kg raw			
Broccoli	Hanawa, Higashi-shirakawa, Fukushima	Jun-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.3	Bq/kg raw	Cs134	1.3	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	1.3	Bq/kg raw			
Broccoli	Yoshima, Iwaki	Mar-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.6	Bq/kg raw	Cs134	1.2	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	1.2	Bq/kg raw			
Cauliflower	Ibaraki Pref.	Jun-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.7	Bq/kg raw	Cs134	1.6	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	1.6	Bq/kg raw			
Green Beans	Hiroshima Pref.	May-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	2.5	Bq/kg raw	Cs134	2.3	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	2.3	Bq/kg raw			
Garlic	Aomori Pref.	May-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	2.5	Bq/kg raw	Cs134	1.9	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	1.9	Bq/kg raw			
Ginger	Ibaraki Pref.	May-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.8	Bq/kg raw	Cs134	1.4	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	1.4	Bq/kg raw			
Italian Parsley	Hongo, Mihara, Hiroshima	May-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	3.1	Bq/kg raw	Cs134	2.3	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	2.3	Bq/kg raw			
Laurier	Hongo, Mihara, Hiroshima	May-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	10.9	Bq/kg raw	Cs134	8.3	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	8.3	Bq/kg raw			
Kale	Hongo, Mihara, Hiroshima	May-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	3.1	Bq/kg raw	Cs134	2.6	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	2.6	Bq/kg raw			
Tomato	Kumamoto Pref.	May-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.7	Bq/kg raw	Cs134	1.6	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	1.6	Bq/kg raw			
Scallion	Kagoshima Pref.	May-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.8	Bq/kg raw	Cs134	1.7	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	1.7	Bq/kg raw			
Shidoke	Tabito, Iwaki	May-20	Cs137	9.5	Bq/kg raw	±	2.5	9.5	Cs137	2.4	Bq/kg raw	Cs134	1.8	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	1.8	Bq/kg raw			
Bracken	Hirata, Ishikawa, Fukushima	Jun-20	Cs137	3.6	Bq/kg raw	±	1.3	3.6	Cs137	1.4	Bq/kg raw	Cs134	1.1	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	1.1	Bq/kg raw			
Butterbur	Hirata, Ishikawa, Fukushima	Jun-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.3	Bq/kg raw	Cs134	1.3	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	1.3	Bq/kg raw			
Bracken	Hanawa, Higashi-shirakawa, Fukushima	Jun-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.7	Bq/kg raw	Cs134	1.6	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	1.6	Bq/kg raw			
Unripe Japanese apricot	Kanagawa Pref.	Jun-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.4	Bq/kg raw	Cs134	1.3	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	1.3	Bq/kg raw			
Water melon	Ibaraki Pref.	Jun-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.2	Bq/kg raw	Cs134	1.2	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	1.2	Bq/kg raw			
Loquat	Onahamasuwa, Iwaki	Jun-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	2.3	Bq/kg raw	Cs134	1.8	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	1.8	Bq/kg raw			
Salted mackerel	Miyagi Pref.	Feb-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.5	Bq/kg raw	Cs134	1.3	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	1.3	Bq/kg raw			
Atka mackerel	U.S.A. (production)	Feb-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.6	Bq/kg raw	Cs134	1.3	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	1.3	Bq/kg raw			
Hair crab	Hokkaido	Unknown	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.5	Bq/kg raw	Cs134	1.2	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	1.2	Bq/kg raw			
Sea cucumber	EnaPort, Iwaki	Jun-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.8	Bq/kg raw	Cs134	1.5	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	1.5	Bq/kg raw			
Chicken breast	Hachimandaira, Iwate	May-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.3	Bq/kg raw	Cs134	1.1	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Bq/kg raw	1.1	Bq/kg raw			

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But it does not necessary mean 0(zero)Bq/kg.



★Gamma-ray

(Bq/kg raw:Weight of raw sample Bq/kg dry:Weight of dried sample)

Samples	Sampling Point	Sampling Month	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection				
Chicken leg	Yonezawa, Yamagata	May-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.3	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.0	Bq/kg raw
Boar(meat)	Enakitaguchi, Iwaki	Jun-20	Cs137	15.3	Bq/kg raw	±	3.6	Bq/kg raw	15.3	Cs137	2.2	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	2.0	Bq/kg raw
Boar(heart)	Enakitaguchi, Iwaki	Jun-20	Cs137	7.8	Bq/kg raw	±	3.5	Bq/kg raw	7.8	Cs137	3.0	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	2.4	Bq/kg raw
Boar · male (liver)	Enakitaguchi, Iwaki	Jun-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	3.3	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	3.0	Bq/kg raw
Dried shitake mushroom (log cultivation)	Iwate Pref.	May-20	Cs137	38.6	Bq/kg raw	±	8.5	Bq/kg raw	38.6	Cs137	8.0	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	6.4	Bq/kg raw
Natto (fermented soybeans)	Hokkaido	May-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.8	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.4	Bq/kg raw
Flour	Hanawa, Higashi-shirakawa, Fukushima	Jun-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.3	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.3	Bq/kg raw
Henon bamboo	Shirakawa, Fukushima	May-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.7	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	2.6	Bq/kg raw
Miso	Iwaki City	Jun-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.1	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.1	Bq/kg raw
Egg	Yotsukura, Iwaki	Jun-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.2	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.1	Bq/kg raw
Sesame	Japan (production)	Mar-19	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.0	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.7	Bq/kg raw
Salted plum	Yamagata Pref.	May-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.1	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.0	Bq/kg raw
Bacon(Pork belly)	Iwate Pref.	May-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.7	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.6	Bq/kg raw
Milk	Hokkaido	Apr-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.3	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.2	Bq/kg raw
Milk	Miyagi Pref.	May-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.3	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.2	Bq/kg raw
Yogurt	Japan (production)	Jun-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.3	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.0	Bq/kg raw
Deep fried bean curd	Japan (production)	May-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.6	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.2	Bq/kg raw
Azuki bean (boiled)	Hokkaido	Apr-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.6	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.2	Bq/kg raw
Prepackaged curry	Japan (production)	2019年	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.3	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.2	Bq/kg raw
Soil	Kamimisaka, Miwa, Iwaki	Jun-20	Cs137	203.0	Bq/kg dry	±	25.0	Bq/kg dry	221.8	Cs137	2.3	Bq/kg dry
			Cs134	18.8	Bq/kg dry	±	3.7	Bq/kg dry		Cs134	3.5	Bq/kg dry
Soil①	Kamimisaka, Miwa, Iwaki	Jun-20	Cs137	443.0	Bq/kg dry	±	48.3	Bq/kg dry	468.8	Cs137	4.5	Bq/kg dry
			Cs134	25.8	Bq/kg dry	±	4.3	Bq/kg dry		Cs134	6.0	Bq/kg dry
Soil②	Kamimisaka, Miwa, Iwaki	Jun-20	Cs137	295.0	Bq/kg dry	±	32.4	Bq/kg dry	312.4	Cs137	4.4	Bq/kg dry
			Cs134	17.4	Bq/kg dry	±	3.2	Bq/kg dry		Cs134	6.1	Bq/kg dry
Soil③	Kamimisaka, Miwa, Iwaki	Jun-20	Cs137	133.0	Bq/kg dry	±	15.1	Bq/kg dry	142.4	Cs137	4.6	Bq/kg dry
			Cs134	9.4	Bq/kg dry	±	2.0	Bq/kg dry		Cs134	6.7	Bq/kg dry
Soil	Shimoyunagaya, Yumoto, Iwaki	Jun-20	Cs137	25.8	Bq/kg dry	±	3.4	Bq/kg dry	25.8	Cs137	3.7	Bq/kg dry
			Cs134	—	Bq/kg dry	±	—	Bq/kg dry		Cs134	3.2	Bq/kg dry

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But it does not necessary mean 0(zero)Bq/kg.



★Gamma-ray

(Bq/kg raw:Weight of raw sample Bq/kg dry:Weight of dried sample)

Samples	Sampling Point	Sampling Month	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection	
Soil(in the park)	Onahamasuwa, Iwaki	May-20	Cs137	385.0 Bq/kg dry	± 41.9 Bq/kg dry	405.9	Cs137	2.7 Bq/kg dry	
			Cs134	20.9 Bq/kg dry	± 3.6 Bq/kg dry		Cs134	3.5 Bq/kg dry	
Soil(in the park)	Onahamasuwa, Iwaki	May-20	Cs137	310.0 Bq/kg dry	± 33.7 Bq/kg dry	327.3	Cs137	2.4 Bq/kg dry	
			Cs134	17.3 Bq/kg dry	± 3.0 Bq/kg dry		Cs134	3.3 Bq/kg dry	
Soil(in the park) under the slide	Onahamasuwa, Iwaki	May-20	Cs137	261.0 Bq/kg dry	± 28.8 Bq/kg dry	273.6	Cs137	2.3 Bq/kg dry	
			Cs134	12.6 Bq/kg dry	± 2.6 Bq/kg dry		Cs134	3.3 Bq/kg dry	
Soil(in the park)	Onahamasuwa, Iwaki	May-20	Cs137	73.1 Bq/kg dry	± 8.3 Bq/kg dry	77.9	Cs137	2.1 Bq/kg dry	
			Cs134	4.8 Bq/kg dry	± 1.3 Bq/kg dry		Cs134	2.6 Bq/kg dry	
Soil(in the park)	Onahamasuwa, Iwaki	May-20	Cs137	31.6 Bq/kg dry	± 4.0 Bq/kg dry	31.6	Cs137	3.2 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	3.8 Bq/kg dry	
Soil(in the park)	Onahamasuwa, Iwaki	May-20	Cs137	31.3 Bq/kg dry	± 4.1 Bq/kg dry	31.3	Cs137	3.8 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	4.5 Bq/kg dry	
Soil(in the park)	Onahamasuwa, Iwaki	May-20	Cs137	25.1 Bq/kg dry	± 3.3 Bq/kg dry	25.1	Cs137	2.9 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	4.4 Bq/kg dry	
Soil(in the park) under the horizontal bar	Onahamasuwa, Iwaki	May-20	Cs137	5.2 Bq/kg dry	± 1.1 Bq/kg dry	5.2	Cs137	3.2 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	3.8 Bq/kg dry	
Soil(in the park)	Onahamaohara, Iwaki	May-20	Cs137	517.0 Bq/kg dry	± 64.9 Bq/kg dry	534.7	Cs137	4.5 Bq/kg dry	
			Cs134	17.7 Bq/kg dry	± 7.0 Bq/kg dry		Cs134	5.3 Bq/kg dry	
Soil(in the park)	Onahamaohara, Iwaki	May-20	Cs137	359.0 Bq/kg dry	± 39.2 Bq/kg dry	383.4	Cs137	2.2 Bq/kg dry	
			Cs134	24.4 Bq/kg dry	± 4.3 Bq/kg dry		Cs134	2.6 Bq/kg dry	
Soil(in the park) under the horizontal bar	Onahamaohara, Iwaki	May-20	Cs137	357.0 Bq/kg dry	± 36.9 Bq/kg dry	369.5	Cs137	3.6 Bq/kg dry	
			Cs134	12.5 Bq/kg dry	± 2.4 Bq/kg dry		Cs134	5.0 Bq/kg dry	
Soil(in the park) under the Swing	Onahamaohara, Iwaki	May-20	Cs137	215.0 Bq/kg dry	± 23.7 Bq/kg dry	228.9	Cs137	2.0 Bq/kg dry	
			Cs134	13.9 Bq/kg dry	± 2.7 Bq/kg dry		Cs134	2.9 Bq/kg dry	
Soil(in the park)	Onahamaohara, Iwaki	May-20	Cs137	205.0 Bq/kg dry	± 23.2 Bq/kg dry	218.3	Cs137	3.9 Bq/kg dry	
			Cs134	13.3 Bq/kg dry	± 2.6 Bq/kg dry		Cs134	5.7 Bq/kg dry	
Soil(in the park)	Onahamaohara, Iwaki	May-20	Cs137	171.0 Bq/kg dry	± 19.0 Bq/kg dry	181.0	Cs137	3.4 Bq/kg dry	
			Cs134	10.0 Bq/kg dry	± 2.0 Bq/kg dry		Cs134	5.0 Bq/kg dry	
Soil(in the park) under the slide	Onahamaohara, Iwaki	May-20	Cs137	56.8 Bq/kg dry	± 8.2 Bq/kg dry	56.8	Cs137	2.9 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	3.4 Bq/kg dry	
Soil(in the park)	Onahamaohara, Iwaki	May-20	Cs137	51.5 Bq/kg dry	± 6.4 Bq/kg dry	51.5	Cs137	3.9 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	3.6 Bq/kg dry	
Soil(in the park) Sand of sandbox	Onahamaohara, Iwaki	May-20	Cs137	40.0 Bq/kg dry	± 5.1 Bq/kg dry	40.0	Cs137	3.2 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	4.2 Bq/kg dry	
Soil(in the park)	Onahamaohara, Iwaki	May-20	Cs137	445.0 Bq/kg dry	± 49.1 Bq/kg dry	472.7	Cs137	2.9 Bq/kg dry	
			Cs134	27.7 Bq/kg dry	± 4.7 Bq/kg dry		Cs134	4.3 Bq/kg dry	
Soil(in the park) under the slide	Onahamaohara, Iwaki	May-20	Cs137	346.0 Bq/kg dry	± 37.6 Bq/kg dry	365.6	Cs137	1.9 Bq/kg dry	
			Cs134	19.6 Bq/kg dry	± 3.3 Bq/kg dry		Cs134	2.6 Bq/kg dry	
Soil(in the park)	Onahamaohara, Iwaki	May-20	Cs137	330.0 Bq/kg dry	± 36.7 Bq/kg dry	350.4	Cs137	4.6 Bq/kg dry	
			Cs134	20.4 Bq/kg dry	± 3.7 Bq/kg dry		Cs134	5.7 Bq/kg dry	
Soil(in the park)	Onahamaohara, Iwaki	May-20	Cs137	330.0 Bq/kg dry	± 36.1 Bq/kg dry	347.2	Cs137	3.5 Bq/kg dry	
			Cs134	17.2 Bq/kg dry	± 3.3 Bq/kg dry		Cs134	4.8 Bq/kg dry	
Soil(in the park)	Onahamaohara, Iwaki	May-20	Cs137	295.0 Bq/kg dry	± 33.0 Bq/kg dry	315.7	Cs137	4.4 Bq/kg dry	
			Cs134	20.7 Bq/kg dry	± 4.1 Bq/kg dry		Cs134	5.3 Bq/kg dry	
Soil(in the park)	Onahamaohara, Iwaki	May-20	Cs137	179.0 Bq/kg dry	± 20.1 Bq/kg dry	191.7	Cs137	2.1 Bq/kg dry	
			Cs134	12.7 Bq/kg dry	± 2.7 Bq/kg dry		Cs134	3.2 Bq/kg dry	
Soil(in the park)	Onahamaohara, Iwaki	May-20	Cs137	171.0 Bq/kg dry	± 19.0 Bq/kg dry	181.5	Cs137	3.8 Bq/kg dry	
			Cs134	10.5 Bq/kg dry	± 2.1 Bq/kg dry		Cs134	5.6 Bq/kg dry	

※"_" used in Measurement Result and Uncertainty shows that the value is below the detection limit.

But it does not necessary mean 0(zero)Bq/kg.



★Gamma-ray

(Bq/kg raw:Weight of raw sample Bq/kg dry:Weight of dried sample)

Samples	Sampling Point	Sampling Month	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection	
Soil(in the park)	Onahamaohara, Iwaki	May-20	Cs137	69.5 Bq/kg dry	± 8.3 Bq/kg dry	69.5	Cs137	4.3 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	4.0 Bq/kg dry	
Soil(in the park) under the Horizontal bar	Onahamaohara, Iwaki	May-20	Cs137	41.4 Bq/kg dry	± 4.7 Bq/kg dry	41.4	Cs137	1.7 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	1.4 Bq/kg dry	
Soil(in the park) Sand of sandbox	Onahamaohara, Iwaki	May-20	Cs137	40.1 Bq/kg dry	± 6.0 Bq/kg dry	40.1	Cs137	1.5 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	2.2 Bq/kg dry	
Soil(in the park) under the Swing	Onahamaohara, Iwaki	May-20	Cs137	18.7 Bq/kg dry	± 2.5 Bq/kg dry	18.7	Cs137	1.6 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	2.0 Bq/kg dry	
Soil(in the park)	Shounandai, Onahama, Iwaki	Jun-20	Cs137	831.0 Bq/kg dry	± 91.0 Bq/kg dry	888.7	Cs137	3.1 Bq/kg dry	
			Cs134	57.7 Bq/kg dry	± 8.2 Bq/kg dry		Cs134	3.9 Bq/kg dry	
Soil(in the park) under the horizontal bar	Shounandai, Onahama, Iwaki	Jun-20	Cs137	588.0 Bq/kg dry	± 60.7 Bq/kg dry	615.0	Cs137	5.0 Bq/kg dry	
			Cs134	27.0 Bq/kg dry	± 4.3 Bq/kg dry		Cs134	6.4 Bq/kg dry	
Soil(in the park)	Shounandai, Onahama, Iwaki	Jun-20	Cs137	536.0 Bq/kg dry	± 57.7 Bq/kg dry	566.5	Cs137	4.1 Bq/kg dry	
			Cs134	30.5 Bq/kg dry	± 5.0 Bq/kg dry		Cs134	5.3 Bq/kg dry	
Soil(in the park)	Shounandai, Onahama, Iwaki	Jun-20	Cs137	453.0 Bq/kg dry	± 50.2 Bq/kg dry	480.7	Cs137	4.8 Bq/kg dry	
			Cs134	27.7 Bq/kg dry	± 5.4 Bq/kg dry		Cs134	6.9 Bq/kg dry	
Soil(in the park)	Shounandai, Onahama, Iwaki	Jun-20	Cs137	411.0 Bq/kg dry	± 47.0 Bq/kg dry	442.3	Cs137	5.0 Bq/kg dry	
			Cs134	31.3 Bq/kg dry	± 5.3 Bq/kg dry		Cs134	7.3 Bq/kg dry	
Soil(in the park) under the slide	Shounandai, Onahama, Iwaki	Jun-20	Cs137	319.0 Bq/kg dry	± 35.7 Bq/kg dry	336.3	Cs137	1.9 Bq/kg dry	
			Cs134	17.3 Bq/kg dry	± 3.7 Bq/kg dry		Cs134	2.6 Bq/kg dry	
Soil(in the park)	Shounandai, Onahama, Iwaki	Jun-20	Cs137	231.0 Bq/kg dry	± 25.2 Bq/kg dry	244.7	Cs137	2.5 Bq/kg dry	
			Cs134	13.7 Bq/kg dry	± 2.5 Bq/kg dry		Cs134	3.7 Bq/kg dry	
Soil(in the park) under the slide	Shounandai, Onahama, Iwaki	Jun-20	Cs137	196.0 Bq/kg dry	± 22.7 Bq/kg dry	207.2	Cs137	1.8 Bq/kg dry	
			Cs134	11.2 Bq/kg dry	± 3.0 Bq/kg dry		Cs134	2.6 Bq/kg dry	
Soil(in the park) Sand of sandbox	Shounandai, Onahama, Iwaki	Jun-20	Cs137	36.2 Bq/kg dry	± 4.6 Bq/kg dry	36.2	Cs137	3.2 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	4.5 Bq/kg dry	
Soil(in the park)	Onahama, Iwaki	Jun-20	Cs137	1140.0 Bq/kg dry	± 126.0 Bq/kg dry	1210.6	Cs137	6.2 Bq/kg dry	
			Cs134	70.6 Bq/kg dry	± 12.6 Bq/kg dry		Cs134	7.6 Bq/kg dry	
Soil(in the park)	Onahama, Iwaki	Jun-20	Cs137	793.0 Bq/kg dry	± 85.1 Bq/kg dry	840.3	Cs137	4.7 Bq/kg dry	
			Cs134	47.3 Bq/kg dry	± 6.6 Bq/kg dry		Cs134	5.5 Bq/kg dry	
Soil(in the park)	Onahama, Iwaki	Jun-20	Cs137	365.0 Bq/kg dry	± 41.2 Bq/kg dry	389.5	Cs137	5.1 Bq/kg dry	
			Cs134	24.5 Bq/kg dry	± 5.2 Bq/kg dry		Cs134	7.4 Bq/kg dry	
Soil(in the park)	Onahama, Iwaki	Jun-20	Cs137	246.0 Bq/kg dry	± 32.0 Bq/kg dry	269.0	Cs137	4.9 Bq/kg dry	
			Cs134	23.0 Bq/kg dry	± 5.1 Bq/kg dry		Cs134	6.0 Bq/kg dry	
Soil(in the park)	Onahama, Iwaki	Jun-20	Cs137	231.0 Bq/kg dry	± 25.6 Bq/kg dry	249.3	Cs137	3.6 Bq/kg dry	
			Cs134	18.3 Bq/kg dry	± 3.3 Bq/kg dry		Cs134	4.3 Bq/kg dry	
Soil(in the park) under the Horizontal bar	Onahama, Iwaki	Jun-20	Cs137	194.0 Bq/kg dry	± 21.6 Bq/kg dry	206.1	Cs137	3.8 Bq/kg dry	
			Cs134	12.1 Bq/kg dry	± 2.2 Bq/kg dry		Cs134	5.5 Bq/kg dry	
Soil(in the park) under the slide	Onahama, Iwaki	Jun-20	Cs137	184.0 Bq/kg dry	± 20.3 Bq/kg dry	194.6	Cs137	3.6 Bq/kg dry	
			Cs134	10.6 Bq/kg dry	± 2.1 Bq/kg dry		Cs134	5.0 Bq/kg dry	
Soil(in the park) under the Swing	Onahama, Iwaki	Jun-20	Cs137	129.0 Bq/kg dry	± 14.6 Bq/kg dry	136.3	Cs137	3.3 Bq/kg dry	
			Cs134	7.3 Bq/kg dry	± 1.6 Bq/kg dry		Cs134	4.2 Bq/kg dry	
Soil(in the park) under the climbing pole	Onahama, Iwaki	Jun-20	Cs137	54.9 Bq/kg dry	± 6.6 Bq/kg dry	54.9	Cs137	3.6 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	3.4 Bq/kg dry	
Soil(in the park) Sand of sandbox	Onahama, Iwaki	Jun-20	Cs137	— Bq/kg dry	± — Bq/kg dry	Under Minimum Limit of Detection	Cs137	1.5 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	1.5 Bq/kg dry	
Soil(in the park)	Rinjo, Onahama, Iwaki	Jun-20	Cs137	443.0 Bq/kg dry	± 48.1 Bq/kg dry	469.0	Cs137	3.5 Bq/kg dry	
			Cs134	26.0 Bq/kg dry	± 4.6 Bq/kg dry		Cs134	5.1 Bq/kg dry	

※"_" used in Measurement Result and Uncertainty shows that the value is below the detection limit.

But it does not necessary mean 0(zero)Bq/kg.



★Gamma-ray

(Bq/kg raw:Weight of raw sample Bq/kg dry:Weight of dried sample)




Samples	Sampling Point	Sampling Month	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection	
Soil(in the park)	Rinjo, Onahama, Iwaki	Jun-20	Cs137	85.6 Bq/kg dry	± 9.8 Bq/kg dry	90.3	Cs137	3.3 Bq/kg dry	
			Cs134	4.7 Bq/kg dry	± 1.3 Bq/kg dry		Cs134	4.7 Bq/kg dry	
Soil(in the park)	Rinjo, Onahama, Iwaki	Jun-20	Cs137	56.5 Bq/kg dry	± 6.9 Bq/kg dry	56.5	Cs137	3.3 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	3.8 Bq/kg dry	
Soil(in the park)	Rinjo, Onahama, Iwaki	Jun-20	Cs137	42.1 Bq/kg dry	± 5.1 Bq/kg dry	42.1	Cs137	1.9 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	3.0 Bq/kg dry	
Soil(in the park) under the monkey bar	Rinjo, Onahama, Iwaki	Jun-20	Cs137	18.4 Bq/kg dry	± 2.7 Bq/kg dry	18.4	Cs137	3.5 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	4.8 Bq/kg dry	
Soil(in the park)	Rinjo, Onahama, Iwaki	Jun-20	Cs137	15.9 Bq/kg dry	± 2.5 Bq/kg dry	15.9	Cs137	3.6 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	4.0 Bq/kg dry	
Soil(in the park) under the slide	Rinjo, Onahama, Iwaki	Jun-20	Cs137	15.7 Bq/kg dry	± 2.4 Bq/kg dry	15.7	Cs137	4.4 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	4.8 Bq/kg dry	
Soil(in the park) under the monkey bar	Rinjo, Onahama, Iwaki	Jun-20	Cs137	8.2 Bq/kg dry	± 1.4 Bq/kg dry	8.2	Cs137	2.1 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	2.7 Bq/kg dry	
Soil(in the park) unnder the Jump stand	Rinjo, Onahama, Iwaki	Jun-20	Cs137	5.4 Bq/kg dry	± 0.9 Bq/kg dry	5.4	Cs137	2.0 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	1.9 Bq/kg dry	
Soil(in the park) under the Animal Playground	Rinjo, Onahama, Iwaki	Jun-20	Cs137	— Bq/kg dry	± — Bq/kg dry	Under Minimum Limit of Detection	Cs137	1.9 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	2.5 Bq/kg dry	
Soil(in the park)	Youkoudai, Iwaki	Jun-20	Cs137	668.0 Bq/kg dry	± 72.3 Bq/kg dry	712.2	Cs137	2.8 Bq/kg dry	
			Cs134	44.2 Bq/kg dry	± 6.2 Bq/kg dry		Cs134	3.0 Bq/kg dry	
Soil(in the park)	Youkoudai, Iwaki	Jun-20	Cs137	657.0 Bq/kg dry	± 72.0 Bq/kg dry	691.0	Cs137	3.5 Bq/kg dry	
			Cs134	34.0 Bq/kg dry	± 6.1 Bq/kg dry		Cs134	4.6 Bq/kg dry	
Soil(in the park) under the slide	Youkoudai, Iwaki	Jun-20	Cs137	240.0 Bq/kg dry	± 26.4 Bq/kg dry	258.1	Cs137	6.0 Bq/kg dry	
			Cs134	18.1 Bq/kg dry	± 3.2 Bq/kg dry		Cs134	7.4 Bq/kg dry	
Soil(in the park) under the Horizontal bar	Youkoudai, Iwaki	Jun-20	Cs137	154.0 Bq/kg dry	± 17.6 Bq/kg dry	163.3	Cs137	5.3 Bq/kg dry	
			Cs134	9.3 Bq/kg dry	± 2.2 Bq/kg dry		Cs134	6.5 Bq/kg dry	
Soil(in the park)	Youkoudai, Iwaki	Jun-20	Cs137	17.0 Bq/kg dry	± 2.6 Bq/kg dry	17.0	Cs137	3.3 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	3.8 Bq/kg dry	
Soil(in the park)	Youkoudai, Iwaki	Jun-20	Cs137	12.4 Bq/kg dry	± 1.8 Bq/kg dry	12.4	Cs137	1.8 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	2.1 Bq/kg dry	
Soil(in the park)	Youkoudai, Iwaki	Jun-20	Cs137	5.3 Bq/kg dry	± 0.9 Bq/kg dry	5.3	Cs137	1.5 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	1.9 Bq/kg dry	
Vacuum cleaner trash (HITATI Cyclon)	Onahama-hanabatake, Iwaki	Jun-20	Cs137	285.2 Bq/kg raw	± 40.2 Bq/kg raw	285.2	Cs137	15.5 Bq/kg raw	
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	11.1 Bq/kg raw	

※"_" used in Measurement Result and Uncertainty shows that the value is below the detection limit.

But it does not necessary mean 0(zero)Bq/kg.



★Gamma-ray

Measuring instrument		Feature	Guide to lower limit※
NaI Scintillation Spectrometer			
Product of ATOMTEX AT1320A 	Product of BERTHOLD LB2045 	· Gamma-ray spectrometer with NaI scintillation detector.	Food (Sample 1kg) Lower limit 1.0Bq/Kg Soil (Sample 1kg) Lower limit 2.5Bq/Kg Material (Sample 1kg) Lower limit 1.0Bq/Kg Water (Sample 20L) Lower limit 0.02Bq/L
Germanium Semiconductor detector			
ORTEC GEM30-70 		· Radioactivity measurement series. Quantitative analysis based on "Gamma-ray spectrometry with germanium semiconductor detector." · Relative efficiency 35%	Food (Sample 2kg) Lower limit 0.04Bq/Kg Soil (Sample 1kg) Lower limit 0.06Bq/Kg Material (Sample 1kg) Lower limit 0.06Bq/Kg Water (Sample 20L) Lower limit 0.001Bq/L

※The lower limit varies depending on the sample weight and measurement time.

Measuring instrument: Germanium Semiconductor detector (Bq/kg raw: Weight of raw sample Bq/kg dry: Weight of dried sample)

Samples	Sampling Point	Sampling Month	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection		
Rice	Hokkaido	Oct-19	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.04 Bq/kg raw	Cs134	0.05 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			0.05 Bq/kg raw		
Rice	Akita Pref.	Oct-19	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.04 Bq/kg raw	Cs134	0.05 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			0.05 Bq/kg raw		
Italian Parsley	Hongo, Mihara, Hiroshima	May-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.2 Bq/kg raw	Cs134	0.2 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			0.2 Bq/kg raw		
Laurier	Hongo, Mihara, Hiroshima	May-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.0 Bq/kg raw	Cs134	1.2 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			1.2 Bq/kg raw		
Scallion	Kagoshima Pref.	May-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.09 Bq/kg raw	Cs134	0.1 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			0.1 Bq/kg raw		
Butterbur (Boil)	Tsukuba, Ibaraki	Jun-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.04 Bq/kg raw	Cs134	0.04 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			0.04 Bq/kg raw		
Baked sweet potato	Tsukuba, Ibaraki	Nov-19	Cs137	1.91 Bq/kg raw	± 0.04 Bq/kg raw	2.01	Cs137	0.05 Bq/kg raw	Cs134	0.06 Bq/kg raw
			Cs134	0.10 Bq/kg raw	± 0.03 Bq/kg raw			0.06 Bq/kg raw		
Plum(raw)	Izumigaoka, Iwaki	May-20	Cs137	0.19 Bq/kg raw	± 0.04 Bq/kg raw	0.19	Cs137	0.09 Bq/kg raw	Cs134	0.09 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			0.09 Bq/kg raw		
Plum(raw)	Chonan, Chosei, Chiba	Jun-20	Cs137	0.20 Bq/kg raw	± 0.03 Bq/kg raw	0.20	Cs137	0.06 Bq/kg raw	Cs134	0.06 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			0.06 Bq/kg raw		
Bacon	Iwate Pref.	May-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.07 Bq/kg raw	Cs134	0.07 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			0.07 Bq/kg raw		
Dried shiitake mushroom	Kanzaki, Saga	Mar-20	Cs137	2.7 Bq/kg raw	± 0.4 Bq/kg raw	2.7	Cs137	0.8 Bq/kg raw	Cs134	0.9 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			0.9 Bq/kg raw		
Dried shiitake mushroom (log cultivation)	Mizukami, Kumagun, Kumamoto	Mar-20	Cs137	1.6 Bq/kg raw	± 0.3 Bq/kg raw	1.6	Cs137	0.7 Bq/kg raw	Cs134	0.8 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			0.8 Bq/kg raw		
Flour①	Tsukuba, Ibaraki	Jun-20	Cs137	0.11 Bq/kg raw	± 0.02 Bq/kg raw	0.11	Cs137	0.05 Bq/kg raw	Cs134	0.05 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			0.05 Bq/kg raw		
Flour②	Tsukuba, Ibaraki	Jun-20	Cs137	0.10 Bq/kg raw	± 0.03 Bq/kg raw	0.10	Cs137	0.06 Bq/kg raw	Cs134	0.06 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			0.06 Bq/kg raw		
Flour③	Tsukuba, Ibaraki	Jun-20	Cs137	0.06 Bq/kg raw	± 0.02 Bq/kg raw	0.06	Cs137	0.05 Bq/kg raw	Cs134	0.05 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			0.05 Bq/kg raw		
Blueberry Honey	Japan (production)	Jun-19	Cs137	2.8 Bq/kg raw	± 0.2 Bq/kg raw	2.8	Cs137	0.4 Bq/kg raw	Cs134	0.5 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			0.5 Bq/kg raw		
Milk	Otaru, Hokkaido	Apr-20	Cs137	— Bq/L	± — Bq/L	Under Minimum Limit of Detection	Cs137	0.04 Bq/L	Cs134	0.04 Bq/L
			Cs134	— Bq/L	± — Bq/L			0.04 Bq/L		

※"_" used in Measurement Result and Uncertainty shows that the value is below the detection limit.

But it does not necessary mean 0(zero)Bq/kg.

★Gamma-ray

(Bq/kg raw:Weight of raw sample Bq/kg dry:Weight of dried sample)



Samples	Sampling Point	Sampling Month	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection		
Milk	Miyagino, Miyagi	Jun-20	Cs137	— Bq/L	± — Bq/L	Under Minimum Limit of Detection	Cs137	0.04 Bq/L	Cs134	0.03 Bq/L
			Cs134	— Bq/L	± — Bq/L			0.0009 Bq/L		0.001 Bq/L
Tap water	Minamidai, Iwaki	Apr-20	Cs137	— Bq/L	± — Bq/L	Under Minimum Limit of Detection	Cs137	0.0009 Bq/L	Cs134	0.001 Bq/L
			Cs134	— Bq/L	± — Bq/L			5.7 Bq/kg raw		6.9 Bq/kg raw
Ash①	Iidate, Soma, Fukushima	Dec-19	Cs137	3289.7 Bq/kg raw	± 20.5 Bq/kg raw	3510.2	Cs137	5.7 Bq/kg raw	Cs134	6.9 Bq/kg raw
			Cs134	220.5 Bq/kg raw	± 6.3 Bq/kg raw			2.6 Bq/kg raw		6.9 Bq/kg raw
Ash②	Iidate, Soma, Fukushima	Dec-19	Cs137	1152.3 Bq/kg raw	± 8.8 Bq/kg raw	1226.8	Cs137	2.6 Bq/kg raw	Cs134	6.9 Bq/kg raw
			Cs134	74.5 Bq/kg raw	± 2.6 Bq/kg raw			0.5 Bq/kg raw		0.5 Bq/kg raw
Crashed sand	Naraha, Futaba, Fukushima	Jun-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.5 Bq/kg raw	Cs134	0.5 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw					

※"_" used in Measurement Result and Uncertainty shows that the value is below the detection limit.

But it does not necessary mean 0(zero)Bq/kg.



★Beta-ray

Measuring instrument		Feature
Liquid Scintillation Counter		
Product of Hidex HIDEX 300SL	Product of PerkinElmer Japan Quantulus GCT 622	Equipment for measuring low-energy beta-ray emission nuclides
		Measuring nuclide Strontium90 Half-life 30 years Organically bound 3H Half-life 12.3 years Free-water 3H Half-life 12.3 years
		All samples are measured in liquid condition after several days of pretreatment.

(Bq/Kg raw:Weight of raw sample Bq/Kg dry:Weight of dried sample)

Samples	Sampling Point	Sampling Month	Measurement Result		Uncertainty		Minimum Limit of Detection	
Groundwater	Konan, Niigata, Niigata	May-20	T (Freedom)	Under Minimum Limit of Detection Bq/L	±	—	Bq/L	1.93 Bq/L
River water	Aga river/ Niigata Pref.	May-20	T (Freedom)	Under Minimum Limit of Detection Bq/L	±	—	Bq/L	1.93 Bq/L
Dark sleeper (pulp)	Minamisoma, Fukushima	Apr-20	T (Organic)	Under Minimum Limit of Detection Bq/kg dry	±	—	Bq/kg dry	1.06 Bq/kg dry
Butterbur sprout	Namie, Futaba, Fukushima	Mar-18	Sr90	3.51 Bq/kg dry	±	1.11	Bq/kg dry	1.65 Bq/kg dry
Citron	Naraha, Futaba, Fukushima	Feb-16	Sr90	1.09 Bq/kg dry	±	0.08	Bq/kg dry	0.12 Bq/kg dry
Flathead(pulp)	Fukushima Pref.	Sep-17	Sr90	Under Minimum Limit of Detection Bq/kg dry	±	—	Bq/kg dry	0.11 Bq/kg dry
Japanese sardine (bone)	Chiba Pref.	Apr-18	Sr90	Under Minimum Limit of Detection Bq/kg dry	±	—	Bq/kg dry	0.28 Bq/kg dry
Chameleon plant	Izumigaoka, Iwaki	Sep-18	Sr90	3.05 Bq/kg dry	±	0.41	Bq/kg dry	0.39 Bq/kg dry
Branch	Okuma, Futaba, Fukushima	Jul-18	Sr90	10.00 Bq/kg dry	±	0.66	Bq/kg dry	0.39 Bq/kg dry
Weed	Okuma, Futaba, Fukushima	Jul-18	Sr90	3.95 Bq/kg dry	±	0.30	Bq/kg dry	0.21 Bq/kg dry
Ash(Wood stove)	Mashiko, Tochigi	Dec-11	Sr90	188.25 Bq/kg dry	±	5.85	Bq/kg dry	1.81 Bq/kg dry
Leaf mold	Okuma, Futaba, Fukushima	Jul-18	Sr90	27.62 Bq/kg dry	±	1.17	Bq/kg dry	1.48 Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Aug-18	Sr90	6.63 Bq/kg dry	±	1.42	Bq/kg dry	2.08 Bq/kg dry
Soil A	Ogawa, Iwaki	Aug-18	Sr90	Under Minimum Limit of Detection Bq/kg dry	±	—	Bq/kg dry	1.56 Bq/kg dry
Soil B	Ogawa, Iwaki	Aug-18	Sr90	Under Minimum Limit of Detection Bq/kg dry	±	—	Bq/kg dry	3.04 Bq/kg dry
Soil	Minamihata, Chuo-ku, Kumamoto	Sep-18	Sr90	Under Minimum Limit of Detection Bq/kg dry	±	—	Bq/kg dry	1.50 Bq/kg dry
Marine soil	Off the coast of Hirono, Futaba	Feb-18	Sr90	Under Minimum Limit of Detection Bq/kg dry	±	—	Bq/kg dry	1.53 Bq/kg dry
Sea water (surface)	Soma Port, Fukushima Pref.	Apr-20	Sr90	0.0011 Bq/L	±	0.0004	Bq/L	0.0006 Bq/L

Measurement results by germanium semiconductor detector 16

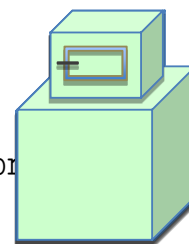
Dr.Tetsuji Imanaka, Institute of Multiple Nuclear Science, Kyoto University

In order to convey more measurement results to everyone, we have asked Dr. Tetsuji Imanaka of the Institute of Advanced Nuclear Science, Kyoto University, to measure low-dose samples using germanium semiconductor detectors. Measurement samples are not only from Fukushima Prefecture but also come from other prefectures. Please compare data based on measurements from various regions and use them to protect your children from radiation exposure.

★Gamma-ray

Measuring instrument: Germanium Semiconductor detector

- Product of CANBERRA(CA),USA GX3018 Relative efficiency 30% or more
- Product of ORTEC(OR),USA GMX25-70 Relative efficiency 35%



(Bq/kg raw:Weight of raw sample Bq/kg dry:Weight of dried sample)

Samples	Sampling Point	Sampling Month	Measuring instrument	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection	
				Cs137	Cs134	±	±		Cs137	Cs134
Potato	Iidate, Soma, Fukushima	Mar-20	CA	Cs137	0.7	± 0.05	0.7	Cs137	—	—
				Cs134	—	± —			Cs134	
Turnip	Iidate, Soma, Fukushima	Mar-20	OR	Cs137	0.17	± 0.02	0.17	Cs137	—	—
				Cs134	—	± —			Cs134	
Green onion	Fukushima, Fukushima Pref.	Mar-20	CA	Cs137	0.63	± 0.08	0.63	Cs137	—	—
				Cs134	—	± —			Cs134	
Canola	Iidate, Soma, Fukushima	Mar-20	CA	Cs137	—	± —	Under Minimum Limit of Detection	Cs137	0.1	—
				Cs134	—	± —			Cs134	
Garland chrysanthemum	Iidate, Soma, Fukushima	Mar-20	CA	Cs137	2.9	± 0.2	2.9	Cs137	—	—
				Cs134	—	± —			Cs134	
Spinach	Fukushima, Fukushima Pref.	Mar-20	OR	Cs137	4.0	± 0.10	4.3	Cs137	—	—
				Cs134	0.3	± 0.05			Cs134	
Butterbur sprout	Koriyama, Fukushima	Apr-20	CA	Cs137	4.0	± 0.1	4.19	Cs137	—	—
				Cs134	0.19	± 0.06			Cs134	
Butterbur sprout	Iwaki City	Mar-20	OR	Cs137	—	± —	Under Minimum Limit of Detection	Cs137	0.2	—
				Cs134	—	± —			Cs134	
Butterbur	Taira, shimokabeya, Iwaki	Apr-20	OR	Cs137	0.45	± 0.1	0.45	Cs137	—	—
				Cs134	—	± —			Cs134	
Ostrich ferm	Shounai, Yamagata	Mar-20	CA	Cs137	2.9	± 0.1	2.9	Cs137	—	—
				Cs134	—	± —			Cs134	
Ginger	Ibaraki Pref.	Feb-20	OR	Cs137	0.11	± 0.03	0.11	Cs137	—	—
				Cs134	—	± —			Cs134	
Dried shiitake mushroom	Kanzaki, Saga	Mar-20	CA	Cs137	1.9	± 0.4	1.9	Cs137	—	—
				Cs134	—	± —			Cs134	
strawberry	Kagamiishi, Ishikawa, Fukushima	Apr-20	CA	Cs137	—	± —	Under Minimum Limit of Detection	Cs137	0.02	—
				Cs134	—	± —			Cs134	
Potato chips	Date, Fukushima	Oct-19	OR	Cs137	—	± —	Under Minimum Limit of Detection	Cs137	0.2	—
				Cs134	—	± —			Cs134	
Rice miso	Haramachi-ku, Minamisoma, Fukushima	Mar-20	OR	Cs137	0.07	± 0.03	0.07	Cs137	—	—
				Cs134	—	± —			Cs134	
Buckwheat flour	Iidate, Soma, Fukushima	2019	OR	Cs137	3.0	± 0.10	3.21	Cs137	—	—
				Cs134	0.21	± 0.07			Cs134	

※"—"used in Measurement Result and Uncertainty shows that the value is below the detection limit.

But it does not necessary mean 0(zero)Bq/kg.

