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

Mothers' Radiation Lab Fukushima

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

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

Mothers' Radiation Lab Fukushima

★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 (fermentedsoybeans)	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

※"—" 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.

Mothers' Radiation Lab Fukushima

★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.

Mothers' Radiation Lab Fukushima

★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

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Mothers' Radiation Lab Fukushima

★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

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Mothers' Radiation Lab Fukushima

★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	— Bq/kg raw	± —	Bq/kg raw		Cs134	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	— Bq/kg raw	± —	Bq/kg raw		Cs134	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	— Bq/kg raw	± —	Bq/kg raw		Cs134	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	— Bq/kg raw	± —	Bq/kg raw		Cs134	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	— Bq/kg raw	± —	Bq/kg raw		Cs134	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	— Bq/kg raw	± —	Bq/kg raw		Cs134	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	0.10 Bq/kg raw	± 0.03	Bq/kg raw		Cs134	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	— Bq/kg raw	± —	Bq/kg raw		Cs134	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	— Bq/kg raw	± —	Bq/kg raw		Cs134	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	— Bq/kg raw	± —	Bq/kg raw		Cs134	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	— Bq/kg raw	± —	Bq/kg raw		Cs134	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	— Bq/kg raw	± —	Bq/kg raw		Cs134	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	— Bq/kg raw	± —	Bq/kg raw		Cs134	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	— Bq/kg raw	± —	Bq/kg raw		Cs134	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	— Bq/kg raw	± —	Bq/kg raw		Cs134	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	— Bq/kg raw	± —	Bq/kg raw		Cs134	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	— Bq/L	± —	Bq/L		Cs134	0.04	Bq/L

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Mothers' Radiation Lab Fukushima

★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	—	Bq/L	±	—	Bq/L		Cs134	0.03	Bq/L
Tap water	Minamidai, Iwaki	Apr-20	Cs137	—	Bq/L	±	—	Bq/L	Under Minimum Limit of Detection	Cs137	0.0009	Bq/L
			Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.001	Bq/L
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	220.5	Bq/kg raw	±	6.3	Bq/kg raw		Cs134	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	74.5	Bq/kg raw	±	2.6	Bq/kg raw		Cs134	6.9	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	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	0.5	Bq/kg raw

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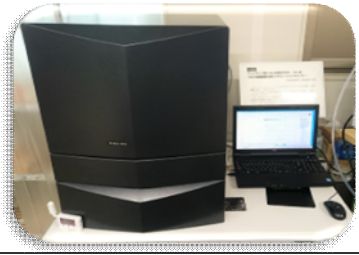
Mothers' Radiation Lab Fukushima

★Beta-ray

Measuring instrument		Feature
Liquid Scintillation Counter		
Product of Hidex **HIDEX 300SLL**	Product of PerkinElmer Japan **Quantulus GCT 6220**	Equipment for measuring low-energy beta-ray emission nuclides Measuring nuclide Strontium90 Half-life 30 years Organic bound Harf-life 12.3 years Free-water tritium Harf-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)

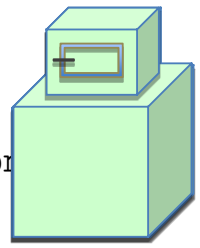
Samples	Sampling Point	Sampling Month	Measurement Result			Uncertainty			Minimum Limit of Detection	
Groundwater	Konan,Niigata, Niigata	May-20	T (Freedom)	Under Minimum Limit of Detection	Bq/L	±	—	Bq/L	1.93	Bq/L
River water	Aga river/ Niigata Pref.	May-20	T (Freedom)	Under Minimum Limit of Detection	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	Nov-16	Sr90	1.09	Bq/kg dry	±	0.08	Bq/kg dry	0.12	Bq/kg dry
Flathead(pulp)	Fukushima Pref.	Aug-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	Sep-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 mor

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

Mothers' Radiation Lab Fukushima