Radiation Measurement Results of 170 Items in March

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 kimit 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：NaI Scintillation Spectrometer (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	
Brown rice	Akita	Oct-19	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.9 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	0.8 Bq/kg raw
Rice	Chosei,Chiba	Oct-19	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	0.9 Bq/kg raw
Glutinous rice	Shinti,Soma, Fukushima	Oct-19	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.9 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	0.8 Bq/kg raw
Potato	Hokkaido	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
Potato	Iidate,Soma, Fukushima	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	1.5 Bq/kg raw
Taro	Joban,Iwaki	Mar-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
Carrot	Nihonmatsu, Fukushima	Mar-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
Japanese white radish	Tomitsu,Iwaki	Mar-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
Spicy radish	Gunma	Feb-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
Turnip(pulp)	Iidate,Soma, Fukushima	Mar-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
Turnip (leaf)	Iidate,Soma, Fukushima	Mar-20	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.8 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	2.1 Bq/kg raw
Turnip(pulp)	Chiba	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	1.4 Bq/kg raw
Turnip (leaf)	Chiba	Mar-20	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.8 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	2.2 Bq/kg raw
Cucumber	Gunma	Mar-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

※"—" 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		
Eggplant	Kochi	Mar-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
Lettuce	Nakajima, Nishishirakawa, Fukushima	Feb-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
Green onion	Fukushima, Fukushima	Mar-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	1.7	Bq/kg raw
Broccoli	Kaneyama, Iwaki	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	1.4	Bq/kg raw
Spinach	Iidate, Soma, Fukushima	Mar-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	1.8	Bq/kg raw
Spinach	Nihonmatsu, Fukushima	Mar-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	1.0	Bq/kg raw
Spinach	Tomitsu, Iwaki	Mar-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
Japanese mustard spinach	Asahi, Kashima, Ibaraki	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	1.4	Bq/kg raw
Garland chrysanthemum	Iidate, Soma, Fukushima	Mar-20	Cs137	10.5	Bq/kg raw	±	2.9	Bq/kg raw	10.5	Cs137	3.0	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	2.2	Bq/kg raw
Qing-geng-cai	Tono, Iwaki	Mar-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
Kaburena	Fukushima, Fukushima	Mar-20	Cs137	2.6	Bq/kg raw	±	1.3	Bq/kg raw	2.6	Cs137	2.0	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.9	Bq/kg raw
Canola flower	Iidate, Soma, Fukushima	Mar-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
Canola flower	Tono, Iwaki	Mar-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	2.2	Bq/kg raw
Celery(leaves)	Aichi	Mar-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	4.1	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	3.4	Bq/kg raw
Celery(stem)	Aichi	Mar-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
Chives	Adachi, Fukushima	Feb-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	3.2	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	3.1	Bq/kg raw
Perilla	Nihonmatsu, Fukushima	Feb-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	7.7	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	5.9	Bq/kg raw
Perilla	Ibaraki	Feb-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	5.1	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	4.0	Bq/kg raw
Japanese parsley	Nihonmatsu, Fukushima	Mar-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	1.8	Bq/kg raw
Dried Japanese white radish	Nihonmatsu, Fukushima	Dec-19	Cs137	6.6	Bq/kg raw	±	3.9	Bq/kg raw	6.6	Cs137	3.6	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	2.7	Bq/kg raw
Dried stems of taro	Iwaki	Dec-19	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	4.0	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	3.0	Bq/kg raw
Ostrich ferm	Shonai, Higashitagawa, Yamagata	Mar-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
Butterbur sprout	Iwaki	Mar-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.9	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	2.2	Bq/kg raw
Butterbur sprout	Tomitsu, Iwaki	Mar-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	5.5	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	4.2	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	
Butterbur sprout	Iritono,Tono, Iwaki	Mar-20	Cs137	6.1 Bq/kg raw	± 3.5 Bq/kg raw	6.1	Cs137	4.6 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	3.4 Bq/kg raw
Chili pepper (dried)	Iidate,Soma, Fukushima	Mar-20	Cs137	6.6 Bq/kg raw	± 4.2 Bq/kg raw	6.6	Cs137	5.5 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	4.2 Bq/kg raw
Shitake mushroom grown in bacteria-bed	Nihonmatsu, Fukushima	Mar-20	Cs137	5.2 Bq/kg raw	± 1.5 Bq/kg raw	5.2	Cs137	1.7 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.3 Bq/kg raw
Shimeji mushroom	Ibaraki	Mar-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
Strawberry	Kagamiishi, Ishikawa, Fukushima	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	1.5 Bq/kg raw
Mandarin orange	Gamagori,Aichi	Feb-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
Boar(meat)	Taira shimoyamaguchi, Iwaki	Mar-20	Cs137	200.0 Bq/kg raw	± 40.0 Bq/kg raw	215.7	Cs137	1.3 Bq/kg raw
			Cs134	15.7 Bq/kg raw	± 3.2 Bq/kg raw		Cs134	1.2 Bq/kg raw
Boar・female (meat)	Enayabukura, Iwaki	Mar-20	Cs137	50.7 Bq/kg raw	± 10.1 Bq/kg raw	50.7	Cs137	1.6 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.4 Bq/kg raw
Boar・female (liver)	Enayabukura, Iwaki	Mar-20	Cs137	16.7 Bq/kg raw	± 3.6 Bq/kg raw	16.7	Cs137	1.8 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.5 Bq/kg raw
Boar・male (meat)	Enayabukura, Iwaki	Mar-20	Cs137	26.2 Bq/kg raw	± 5.2 Bq/kg raw	26.2	Cs137	1.7 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.5 Bq/kg raw
Boar・male (heart,liver)	Enayabukura, Iwaki	Mar-20	Cs137	6.0 Bq/kg raw	± 1.6 Bq/kg raw	6.0	Cs137	1.5 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.4 Bq/kg raw
Boar・female (meat)	Enakitaguchi, Iwaki	Mar-20	Cs137	34.6 Bq/kg raw	± 6.9 Bq/kg raw	34.6	Cs137	1.4 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.1 Bq/kg raw
Boar・female (heart,liver)	Enakitaguchi, Iwaki	Mar-20	Cs137	16.0 Bq/kg raw	± 3.4 Bq/kg raw	16.0	Cs137	1.6 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.4 Bq/kg raw
Mulberry leaves (dried tea leaves)	Nihonmatsu, Fukushima	Mar-20	Cs137	11.2 Bq/kg raw	± 3.7 Bq/kg raw	11.2	Cs137	4.0 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	3.1 Bq/kg raw
Green soybean	Soma,Fukushima	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	1.6 Bq/kg raw
Rice miso	Minamisoma, Fukushima	Mar-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.9 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.9 Bq/kg raw
Rice miso	Iwaki	Mar-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.9 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.9 Bq/kg raw
Salt-marinated rice malt	Japan (production)	Mar-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.7 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.6 Bq/kg raw
Roasted laver	Japan (production)	Feb-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	6.9 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	5.3 Bq/kg raw
Vienna sausage	Gunma	Mar-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
Flour	Japan (production)	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	1.5 Bq/kg raw
Buckwheat flour	Iidate,Soma, Fukushima	unknown	Cs137	4.5 Bq/kg raw	± 1.8 Bq/kg raw	4.5	Cs137	1.7 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.2 Bq/kg raw
Tempura flour	Matsumoto, Nagano	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	1.4 Bq/kg raw
Bran	Iwaki	Mar-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	1.5 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	
Sake lees	Fukaya,Saitama	Feb-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
Konjac	Gunma	Mar-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	1.0 Bq/kg raw
Konjac	Japan (production)	Jan-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
Konjac	Japan (production)	Mar-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
Soy milk (soy:Canada,America)	Chiba	Mar-20	Cs137	— Bq/kg raw	± — Bq/kg raw		Under Minimum Limit of Detection	Cs137	0.8 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	0.7 Bq/kg raw
Blueberry honey	Japan (production)	unknown	Cs137	2.0 Bq/kg raw	± 0.6 Bq/kg raw		2.0	Cs137	1.0 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	1.0 Bq/kg raw
Tomato juice	Taito-ku,Tokyo	Mar-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	0.9 Bq/kg raw
Pudding	Aichi	Mar-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
Potato chips	Date,Fukushima	Mar-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	1.6 Bq/kg raw
Salted plum	Japan (production)	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	1.4 Bq/kg raw
Yellow pickled radish	Japan (production)	Mar-20	Cs137	— Bq/kg raw	± — Bq/kg raw		Under Minimum Limit of Detection	Cs137	1.9 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	1.8 Bq/kg raw
Dried udon	Shiraishi, Miyagi	2019年	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	1.5 Bq/kg raw
Dried udon (rice flour)	Iwaki	Nov-19	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	1.4 Bq/kg raw
Bread	Chiyoda-ku, Tokyo	Mar-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	1.6 Bq/kg raw
Fallen leaves	Tamura, Fukushima	Mar-20	Cs137	2200.0 Bq/kg raw	± 440.0 Bq/kg raw		2335.0	Cs137	14.5 Bq/kg raw
			Cs134	135.0 Bq/kg raw	± 28.0 Bq/kg raw			Cs134	12.2 Bq/kg raw
Pine cone	Namie,Futaba, Fukushima	Mar-20	Cs137	423.0 Bq/kg raw	± 85.0 Bq/kg raw		455.1	Cs137	3.9 Bq/kg raw
			Cs134	32.1 Bq/kg raw	± 7.0 Bq/kg raw			Cs134	3.8 Bq/kg raw
Pine leaves	Onahamafukimatsu, Iwaki	Mar-20	Cs137	— Bq/kg raw	± — Bq/kg raw		Under Minimum Limit of Detection	Cs137	4.7 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	4.5 Bq/kg raw
Soil	Naraha,Futaba, Fukushima	Mar-20	Cs137	528.0 Bq/kg dry	± 106.0 Bq/kg dry		567.9	Cs137	6.2 Bq/kg dry
			Cs134	39.9 Bq/kg dry	± 8.8 Bq/kg dry			Cs134	5.1 Bq/kg dry
Soil	Tamura, Fukushima	Mar-20	Cs137	7030.0 Bq/kg dry	± 1410.0 Bq/kg dry		7460.0	Cs137	16.5 Bq/kg dry
			Cs134	430.0 Bq/kg dry	± 86.0 Bq/kg dry			Cs134	13.7 Bq/kg dry
Soil	Onahamaohara, Iwaki	Mar-20	Cs137	346.0 Bq/kg dry	± 38.2 Bq/kg dry		369.1	Cs137	4.2 Bq/kg dry
			Cs134	23.1 Bq/kg dry	± 3.6 Bq/kg dry			Cs134	5.5 Bq/kg dry
Soil	Iritono,Tono, Iwaki	Mar-20	Cs137	67.7 Bq/kg dry	± 8.1 Bq/kg dry		72.7	Cs137	2.4 Bq/kg dry
			Cs134	5.0 Bq/kg dry	± 1.4 Bq/kg dry			Cs134	3.2 Bq/kg dry
Soil (in the park)	Onahamayokocho, Iwaki	Mar-20	Cs137	1350.0 Bq/kg dry	± 147.0 Bq/kg dry		1447.4	Cs137	4.1 Bq/kg dry
			Cs134	97.4 Bq/kg dry	± 13.5 Bq/kg dry			Cs134	4.8 Bq/kg dry
Soil(in the park) shrubbery	Onahamayokocho, Iwaki	Mar-20	Cs137	804.0 Bq/kg dry	± 89.4 Bq/kg dry		856.3	Cs137	4.1 Bq/kg dry
			Cs134	52.3 Bq/kg dry	± 9.9 Bq/kg dry			Cs134	5.7 Bq/kg dry
Soil (in the park)	Onahamayokocho, Iwaki	Mar-20	Cs137	371.0 Bq/kg dry	± 40.4 Bq/kg dry		394.0	Cs137	4.1 Bq/kg dry
			Cs134	23.0 Bq/kg dry	± 3.9 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) under the slide	Onahamayokocho, Iwaki	Mar-20	Cs137	196.0 Bq/kg dry	± 23.1 Bq/kg dry	213.4	Cs137	3.6 Bq/kg dry
			Cs134	17.4 Bq/kg dry	± 3.2 Bq/kg dry		Cs134	5.3 Bq/kg dry
Soil (in the park)	Onahamayokocho, Iwaki	Mar-20	Cs137	148.0 Bq/kg dry	± 18.9 Bq/kg dry	162.8	Cs137	3.4 Bq/kg dry
			Cs134	14.8 Bq/kg dry	± 3.1 Bq/kg dry		Cs134	5.0 Bq/kg dry
Soil(in the park) under the bars	Onahamayokocho, Iwaki	Mar-20	Cs137	134.0 Bq/kg dry	± 14.6 Bq/kg dry	143.0	Cs137	2.1 Bq/kg dry
			Cs134	9.0 Bq/kg dry	± 1.6 Bq/kg dry		Cs134	3.2 Bq/kg dry
Soil(in the park) under the swing	Onahamayokocho, Iwaki	Mar-20	Cs137	52.2 Bq/kg dry	± 7.2 Bq/kg dry	59.3	Cs137	1.8 Bq/kg dry
			Cs134	7.1 Bq/kg dry	± 2.1 Bq/kg dry		Cs134	2.9 Bq/kg dry
Soil (in the ground)	Onahamayokocho, Iwaki	Mar-20	Cs137	1780.0 Bq/kg dry	± 191.0 Bq/kg dry	1904.0	Cs137	7.1 Bq/kg dry
			Cs134	124.0 Bq/kg dry	± 16.1 Bq/kg dry		Cs134	7.8 Bq/kg dry
Soil(in the ground) Backside of the backstop	Onahamayokocho, Iwaki	Mar-20	Cs137	754.0 Bq/kg dry	± 102.0 Bq/kg dry	782.4	Cs137	7.3 Bq/kg dry
			Cs134	28.4 Bq/kg dry	± 14.1 Bq/kg dry		Cs134	8.2 Bq/kg dry
Soil (in the ground)	Onahamayokocho, Iwaki	Mar-20	Cs137	665.0 Bq/kg dry	± 67.5 Bq/kg dry	697.9	Cs137	2.6 Bq/kg dry
			Cs134	32.9 Bq/kg dry	± 4.0 Bq/kg dry		Cs134	3.4 Bq/kg dry
Soil (in the ground)	Onahamayokocho, Iwaki	Mar-20	Cs137	604.0 Bq/kg dry	± 66.2 Bq/kg dry	649.7	Cs137	5.5 Bq/kg dry
			Cs134	45.7 Bq/kg dry	± 6.5 Bq/kg dry		Cs134	7.1 Bq/kg dry
Soil(in the ground) central area	Onahamayokocho, Iwaki	Mar-20	Cs137	526.0 Bq/kg dry	± 53.4 Bq/kg dry	551.5	Cs137	2.1 Bq/kg dry
			Cs134	25.5 Bq/kg dry	± 3.2 Bq/kg dry		Cs134	2.6 Bq/kg dry
Soil(in the park) under the slide	Onahamaokaona, Iwaki	Mar-20	Cs137	309.0 Bq/kg dry	± 34.4 Bq/kg dry	330.5	Cs137	2.3 Bq/kg dry
			Cs134	21.5 Bq/kg dry	± 4.2 Bq/kg dry		Cs134	3.3 Bq/kg dry
Soil(in the park) under the bars	Onahamaokaona, Iwaki	Mar-20	Cs137	142.0 Bq/kg dry	± 17.4 Bq/kg dry	153.5	Cs137	2.4 Bq/kg dry
			Cs134	11.5 Bq/kg dry	± 3.0 Bq/kg dry		Cs134	3.7 Bq/kg dry
Soil(in the park) under the slide	Onahamaokaona, Iwaki	Mar-20	Cs137	124.0 Bq/kg dry	± 13.9 Bq/kg dry	132.7	Cs137	3.8 Bq/kg dry
			Cs134	8.7 Bq/kg dry	± 1.8 Bq/kg dry		Cs134	4.8 Bq/kg dry
Soil(in the park) sandpit	Onahamaokaona, Iwaki	Mar-20	Cs137	63.9 Bq/kg dry	± 7.1 Bq/kg dry	67.6	Cs137	1.6 Bq/kg dry
			Cs134	3.7 Bq/kg dry	± 0.9 Bq/kg dry		Cs134	2.1 Bq/kg dry
Soil(in the park) under the swing	Onahamaokaona, Iwaki	Mar-20	Cs137	45.5 Bq/kg dry	± 5.8 Bq/kg dry	45.5	Cs137	2.4 Bq/kg dry
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	2.8 Bq/kg dry
Soil(in the park) under the monkeybars	Onahamaokaona, Iwaki	Mar-20	Cs137	39.6 Bq/kg dry	± 5.0 Bq/kg dry	39.6	Cs137	3.9 Bq/kg dry
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	4.2 Bq/kg dry
Soil(in the park) under the junglegym	Onahamaokaona, Iwaki	Mar-20	Cs137	12.3 Bq/kg dry	± 1.9 Bq/kg dry	12.3	Cs137	3.0 Bq/kg dry
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	3.5 Bq/kg dry
Soil(in the ground) Backside of the backstop	Onahamaokaona, Iwaki	Mar-20	Cs137	589.0 Bq/kg dry	± 64.7 Bq/kg dry	630.9	Cs137	4.5 Bq/kg dry
			Cs134	41.9 Bq/kg dry	± 6.1 Bq/kg dry		Cs134	5.7 Bq/kg dry
Soil (in the ground)	Onahamaokaona, Iwaki	Mar-20	Cs137	523.0 Bq/kg dry	± 57.7 Bq/kg dry	563.0	Cs137	5.2 Bq/kg dry
			Cs134	40.0 Bq/kg dry	± 5.9 Bq/kg dry		Cs134	7.0 Bq/kg dry
Soil(in the park) under the swing	Onahamatatsumi, Iwaki	Mar-20	Cs137	122.0 Bq/kg dry	± 13.3 Bq/kg dry	129.5	Cs137	2.3 Bq/kg dry
			Cs134	7.5 Bq/kg dry	± 1.5 Bq/kg dry		Cs134	2.9 Bq/kg dry
Soil(in the park) under the slide	Onahamatatsumi, Iwaki	Mar-20	Cs137	80.7 Bq/kg dry	± 9.1 Bq/kg dry	86.0	Cs137	2.1 Bq/kg dry
			Cs134	5.3 Bq/kg dry	± 1.2 Bq/kg dry		Cs134	2.7 Bq/kg dry
Soil (in the park)	Onahamatatsumi, Iwaki	Mar-20	Cs137	72.1 Bq/kg dry	± 9.0 Bq/kg dry	80.0	Cs137	1.9 Bq/kg dry
			Cs134	7.9 Bq/kg dry	± 2.3 Bq/kg dry		Cs134	2.4 Bq/kg dry
Soil(in the park) central area	Onahamatatsumi, Iwaki	Mar-20	Cs137	61.9 Bq/kg dry	± 7.2 Bq/kg dry	61.9	Cs137	2.0 Bq/kg dry
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	3.1 Bq/kg dry
Soil(in the park) sandpit	Onahama-minami kimigatsuka,Iwaki	Mar-20	Cs137	87.5 Bq/kg dry	± 9.6 Bq/kg dry	92.6	Cs137	1.9 Bq/kg dry
			Cs134	5.1 Bq/kg dry	± 1.1 Bq/kg dry		Cs134	2.4 Bq/kg dry
Soil (in the ground)	Onahama-minami kimigatsuka,Iwaki	Mar-20	Cs137	527.0 Bq/kg dry	± 57.8 Bq/kg dry	560.0	Cs137	7.1 Bq/kg dry
			Cs134	33.0 Bq/kg dry	± 5.7 Bq/kg dry		Cs134	9.5 Bq/kg dry

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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	
Soil (in the ground)	Onahama-minami kimigatsuka,Iwaki	Mar-20	Cs137	391.0 Bq/kg dry	± 43.0 Bq/kg dry	412.3	Cs137	3.9 Bq/kg dry
			Cs134	21.3 Bq/kg dry	± 3.9 Bq/kg dry		Cs134	5.2 Bq/kg dry
Soil(in the ground) Front side of the backstop	Onahama-minami kimigatsuka,Iwaki	Mar-20	Cs137	186.0 Bq/kg dry	± 20.8 Bq/kg dry	196.4	Cs137	3.2 Bq/kg dry
			Cs134	10.4 Bq/kg dry	± 2.2 Bq/kg dry		Cs134	4.8 Bq/kg dry
Soil(in the ground) under the swing	Onahama-minami kimigatsuka,Iwaki	Mar-20	Cs137	128.0 Bq/kg dry	± 13.8 Bq/kg dry	137.0	Cs137	2.0 Bq/kg dry
			Cs134	9.0 Bq/kg dry	± 1.5 Bq/kg dry		Cs134	2.5 Bq/kg dry
Soil (in the park)	Onahamafukimatsu, Iwaki	Mar-20	Cs137	2250.0 Bq/kg dry	± 266.0 Bq/kg dry	2362.0	Cs137	14.8 Bq/kg dry
			Cs134	112.0 Bq/kg dry	± 23.3 Bq/kg dry		Cs134	15.4 Bq/kg dry
Soil (in the park)	Onahamafukimatsu, Iwaki	Mar-20	Cs137	1150.0 Bq/kg dry	± 126.0 Bq/kg dry	1230.0	Cs137	9.1 Bq/kg dry
			Cs134	80.0 Bq/kg dry	± 11.6 Bq/kg dry		Cs134	10.0 Bq/kg dry
Soil(in the park) under the pinetree	Onahamafukimatsu, Iwaki	Mar-20	Cs137	1090.0 Bq/kg dry	± 119.0 Bq/kg dry	1164.0	Cs137	6.5 Bq/kg dry
			Cs134	74.0 Bq/kg dry	± 10.6 Bq/kg dry		Cs134	7.2 Bq/kg dry
Soil(in the park) front of the warehouse	Onahamafukimatsu, Iwaki	Mar-20	Cs137	481.0 Bq/kg dry	± 53.1 Bq/kg dry	513.6	Cs137	4.4 Bq/kg dry
			Cs134	32.6 Bq/kg dry	± 5.5 Bq/kg dry		Cs134	6.0 Bq/kg dry
Soil (in the park)	Onahamafukimatsu, Iwaki	Mar-20	Cs137	432.0 Bq/kg dry	± 50.1 Bq/kg dry	458.2	Cs137	6.2 Bq/kg dry
			Cs134	26.2 Bq/kg dry	± 6.4 Bq/kg dry		Cs134	9.1 Bq/kg dry
Soil(in the park) animal shaped playground equipment	Onahamafukimatsu, Iwaki	Mar-20	Cs137	199.0 Bq/kg dry	± 22.3 Bq/kg dry	211.6	Cs137	3.9 Bq/kg dry
			Cs134	12.6 Bq/kg dry	± 2.5 Bq/kg dry		Cs134	5.7 Bq/kg dry
Soil(in the park) under the small slide	Onahamafukimatsu, Iwaki	Mar-20	Cs137	132.0 Bq/kg dry	± 15.2 Bq/kg dry	142.9	Cs137	3.3 Bq/kg dry
			Cs134	10.9 Bq/kg dry	± 2.5 Bq/kg dry		Cs134	4.2 Bq/kg dry
Soil(in the park) under the big slide	Onahamafukimatsu, Iwaki	Mar-20	Cs137	54.4 Bq/kg dry	± 7.1 Bq/kg dry	54.4	Cs137	2.4 Bq/kg dry
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	2.6 Bq/kg dry
Soil (in the park)	Onahamafukimatsu, Iwaki	Mar-20	Cs137	38.5 Bq/kg dry	± 5.7 Bq/kg dry	38.5	Cs137	1.8 Bq/kg dry
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	2.7 Bq/kg dry
Soil(in the park) sandpit	Onahamafukimatsu, Iwaki	Mar-20	Cs137	33.1 Bq/kg dry	± 4.1 Bq/kg dry	33.1	Cs137	1.8 Bq/kg dry
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	1.9 Bq/kg dry
Soil(in the ground) Front side of the backstop	Onahamafukimatsu, Iwaki	Mar-20	Cs137	2410.0 Bq/kg dry	± 283.0 Bq/kg dry	2541.0	Cs137	13.6 Bq/kg dry
			Cs134	131.0 Bq/kg dry	± 25.6 Bq/kg dry		Cs134	14.1 Bq/kg dry
Soil (in the ground)	Onahamafukimatsu, Iwaki	Mar-20	Cs137	920.0 Bq/kg dry	± 101.0 Bq/kg dry	982.9	Cs137	10.2 Bq/kg dry
			Cs134	62.9 Bq/kg dry	± 9.5 Bq/kg dry		Cs134	11.9 Bq/kg dry
Soil (in the ground)	Onahamafukimatsu, Iwaki	Mar-20	Cs137	559.0 Bq/kg dry	± 62.7 Bq/kg dry	601.4	Cs137	7.8 Bq/kg dry
			Cs134	42.4 Bq/kg dry	± 7.0 Bq/kg dry		Cs134	9.1 Bq/kg dry
Soil(in the ground) central area	Onahamafukimatsu, Iwaki	Mar-20	Cs137	313.0 Bq/kg dry	± 34.4 Bq/kg dry	332.7	Cs137	2.5 Bq/kg dry
			Cs134	19.7 Bq/kg dry	± 3.3 Bq/kg dry		Cs134	3.3 Bq/kg dry
Soil (in the ground)	Onahamafukimatsu, Iwaki	Mar-20	Cs137	6.7 Bq/kg dry	± 1.2 Bq/kg dry	6.7	Cs137	2.0 Bq/kg dry
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	2.0 Bq/kg dry
Vacuum cleaner dust(Dyson)	Onahama-hanabatake,Iwaki	Mar-20	Cs137	884.6 Bq/kg raw	± 79.9 Bq/kg raw	938.0	Cs137	10.3 Bq/kg raw
			Cs134	53.4 Bq/kg raw	± 11.2 Bq/kg raw		Cs134	9.7 Bq/kg raw
Vacuum cleaner dust (HITACHI Cyclone)	Onahama-hanabatake,Iwaki	Mar-20	Cs137	624.8 Bq/kg raw	± 64.5 Bq/kg raw	647.6	Cs137	20.5 Bq/kg raw
			Cs134	22.8 Bq/kg raw	± 11.7 Bq/kg raw		Cs134	15.5 Bq/kg raw
Cleaning sheet	Onahama-hanabatake,Iwaki	Mar-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	8.2 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	6.3 Bq/kg raw
Plastic curtain	Onahama-hanabatake,Iwaki	Mar-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	1.3 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 kimit 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	Chosei,Chiba	Oct-19	Cs137	0.05 Bq/kg raw	± 0.02 Bq/kg raw	0.05	Cs137	0.04 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.04 Bq/kg raw
Potato	Sasakino, Fukushima, Fukushima	Sep-19	Cs137	2.20 Bq/kg raw	± 0.06 Bq/kg raw	2.40	Cs137	0.13 Bq/kg raw
			Cs134	0.20 Bq/kg raw	± 0.05 Bq/kg raw		Cs134	0.15 Bq/kg raw
Potato	Hokkaido	Oct-19	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
Japanese white radish	Fushiguro,Date, Fukushima	Mar-20	Cs137	0.07 Bq/kg raw	± 0.02 Bq/kg raw	0.07	Cs137	0.03 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.04 Bq/kg raw
Japanese white radish	Tomitsu,Iwaki	Mar-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.06 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.06 Bq/kg raw
Carrot	Fushiguro,Date, Fukushima	Mar-20	Cs137	0.33 Bq/kg raw	± 0.02 Bq/kg raw	0.33	Cs137	0.04 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.04 Bq/kg raw
Carrot	Iritono,Tono, Iwaki	Mar-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.10 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.10 Bq/kg raw
Cabbage	Chiba	Feb-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.10 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.11 Bq/kg raw
Spinach	Iwaki	Mar-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.13 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.12 Bq/kg raw
Broccoli	Kaneyama,Iwaki	Feb-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
Corn	Fushiguro,Date, Fukushima	Jul-19	Cs137	0.25 Bq/kg raw	± 0.02 Bq/kg raw	0.25	Cs137	0.04 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.06 Bq/kg raw
Konjac	Utsunomiya, Tochigi	Mar-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
Vienna sausage	Gunma	Mar-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
Honey①	Fushiguro,Date, Fukushima	Apr-19	Cs137	0.72 Bq/kg raw	± 0.21 Bq/kg raw	0.72	Cs137	0.41 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.56 Bq/kg raw
Honey②	Fushiguro,Date, Fukushima	Apr-19	Cs137	0.65 Bq/kg raw	± 0.21 Bq/kg raw	0.65	Cs137	0.42 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.52 Bq/kg raw
Soy milk (soy:Canada,America)	Chiba	Mar-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.59 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.52 Bq/kg raw
Natsuhaze jam	Tamura, Fukushima	2019	Cs137	0.54 Bq/kg raw	± 0.15 Bq/kg raw	0.54	Cs137	0.31 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.35 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	
Kuritake mushroom	Soma,Fukushima	Nov-19	Cs137	31.8 Bq/kg raw	± 0.5 Bq/kg raw		33.6	Cs137	0.5 Bq/kg raw
			Cs134	1.8 Bq/kg raw	± 0.3 Bq/kg raw			Cs134	0.6 Bq/kg raw
Shimeji mushroom grown in bacteria-bed	Soma,Fukushima	Nov-19	Cs137	3.88 Bq/kg raw	± 0.31 Bq/kg raw		3.88	Cs137	0.52 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	0.57 Bq/kg raw
Dried shiitake mushroom	Kanzaki,Saga	Mar-20	Cs137	2.71 Bq/kg raw	± 0.43 Bq/kg raw		2.71	Cs137	0.83 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	0.95 Bq/kg raw
Well water	Naraha,Futaba, Fukushima	Mar-20	Cs137	0.36 Bq/kg raw	± 0.15 Bq/kg raw		0.36	Cs137	0.31 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	0.33 Bq/kg raw

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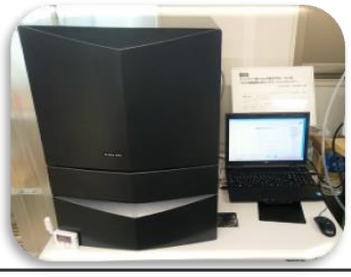
Mothers' Radiation Lab Fukushima

★Beta-ray

Measuring instrument		Feature
Liquid Scintillation Counter		
Product of Hidex **HIDEX 300SLL**	Product of PerkinElmer Japan **Quantulus GCT 622**	Equipment for measuring low-energy beta-ray emission nuclides Measuring nuclide Strontium90 Half-life 30 years Organically bound 3H Harf-life 12.3 years Free-water 3H 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	
Tap water	Minamidai, Iwaki	Oct-19	T(Free)	Under Minimum Limit of Detection Bq/L	± —	Bq/L	2.15	Bq/L
Sea water A (surface)	Tomioka port, Futaba	Nov-19	T(Free)	Under Minimum Limit of Detection Bq/L	± —	Bq/L	1.98	Bq/L
Sea water A (lower)	Tomioka port, Futaba	Nov-19	T(Free)	Under Minimum Limit of Detection Bq/L	± —	Bq/L	1.98	Bq/L
Sea water B (surface)	Off the coast of Fukushima Nuclear Power Plant1	Nov-19	T(Free)	Under Minimum Limit of Detection Bq/L	± —	Bq/L	1.98	Bq/L
Sea water B (lower)	Off the coast of Fukushima Nuclear Power Plant1	Nov-19	T(Free)	Under Minimum Limit of Detection Bq/L	± —	Bq/L	1.98	Bq/L
Sea water C (surface)	Off the coast of Fukushima Nuclear Power Plant1	Nov-19	T(Free)	Under Minimum Limit of Detection Bq/L	± —	Bq/L	1.98	Bq/L
Sea water C (lower)	Off the coast of Fukushima Nuclear Power Plant1	Nov-19	T(Free)	Under Minimum Limit of Detection Bq/L	± —	Bq/L	1.98	Bq/L
Japanese rockfish (flesh)	Off the coast of Fukushima Nuclear Power Plant1	Apr-19	T(Organization)	Under Minimum Limit of Detection Bq/Kg dry	± —	Bq/Kg dry	1.21	Bq/Kg dry
Flounder① (bone)	Off the coast of Fukushima Nuclear Power Plant1	Sep-16	Sr90	Under Minimum Limit of Detection Bq/Kg dry	± —	Bq/Kg dry	0.15	Bq/Kg dry
Flounder② (bone)	Off the coast of Fukushima Nuclear Power Plant1	Sep-16	Sr90	0.37 Bq/Kg dry	± 0.12	Bq/Kg dry	0.17	Bq/Kg dry
Salmon (flesh,guts)	Naraha,Futaba, Fukushima	Dec-16	Sr90	0.18 Bq/Kg dry	± 0.09	Bq/Kg dry	0.13	Bq/Kg dry
Mushroom	Kamitono,Tono, Iwaki	Sep-18	Sr90	Under Minimum Limit of Detection Bq/Kg dry	± —	Bq/Kg dry	0.14	Bq/Kg dry
Sea sand(surface)	Nakoso Beach①, Fukushima	Jun-18	Sr90	1.82 Bq/Kg dry	± 1.13	Bq/Kg dry	1.70	Bq/Kg dry
Sea sand (10cm deep)	Nakoso Beach①, Fukushima	Jun-18	Sr90	Under Minimum Limit of Detection Bq/Kg dry	± —	Bq/Kg dry	1.78	Bq/Kg dry
Sea sand (20cm deep)	Nakoso Beach①, Fukushima	Jun-18	Sr90	Under Minimum Limit of Detection Bq/Kg dry	± —	Bq/Kg dry	1.29	Bq/Kg dry
Sea water A (surface)	Tomioka port, Futaba	Nov-19	Sr90	0.0008 Bq/L	± 0.0004	Bq/L	0.0007	Bq/L
Sea water A (lower)	Tomioka port, Futaba	Nov-19	Sr90	0.0009 Bq/L	± 0.0004	Bq/L	0.0006	Bq/L

※The value below Minimum Limit of Detection does not necessary mean 0(zero)Bq/Kg.

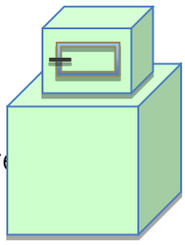
Mothers' Radiation Lab Fukushima

Measurement results by germanium semiconductor detector 14

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 type	Measurement Result		Uncertainty		Total Amount of Cesium		
Brown rice	Hanawa, Higashishirakawa, Fukushima	Oct-18	OR	Cs137	0.2 Bq/kg raw	± 0.02 Bq/kg raw		0.2	Cs137	— Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	— Bq/kg raw
Rice	Okuma,Futaba	Oct-19	OR	Cs137	1.40 Bq/kg raw	± 0.05 Bq/kg raw		1.49	Cs137	— Bq/kg raw
				Cs134	0.09 Bq/kg raw	± 0.02 Bq/kg raw			Cs134	— Bq/kg raw
Rice	Hirono, Futaba	Oct-19	CA	Cs137	0.2 Bq/kg raw	± 0.03 Bq/kg raw		0.2	Cs137	— Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	— Bq/kg raw
Rice	Haramachi, Minamisoma, Fukushima	Oct-19	OR	Cs137	0.09 Bq/kg raw	± 0.02 Bq/kg raw		0.09	Cs137	— Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	— Bq/kg raw
Rice	Nishihara,Aso, Kumamoto	Oct-19	OR	Cs137	— Bq/kg raw	± — Bq/kg raw		Under Minimum Limit of Detection	Cs137	0.03 Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	— Bq/kg raw
Green pepper	Saito,Miyazaki	Dec-19	CA	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	— Bq/kg raw
Ginger	Nishihara,Aso, Kumamoto	Dec-19	CA	Cs137	— Bq/kg raw	± — Bq/kg raw		Under Minimum Limit of Detection	Cs137	0.7 Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	— Bq/kg raw
Dried Japanese white radish	Nishihara,Aso, Kumamoto	Feb-19	CA	Cs137	— Bq/kg raw	± — Bq/kg raw		Under Minimum Limit of Detection	Cs137	0.6 Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	— Bq/kg raw
Dried persimmon	Joban,Iwaki	Dec-19	CA	Cs137	0.7 Bq/kg raw	± 0.09 Bq/kg raw		0.7	Cs137	— Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	— Bq/kg raw
Dried sweet potapo	Hokota,Ibaraki	Jan-20	OR	Cs137	2.6 Bq/kg raw	± 0.08 Bq/kg raw		2.8	Cs137	— Bq/kg raw
				Cs134	0.2 Bq/kg raw	± 0.03 Bq/kg raw			Cs134	— Bq/kg raw
Butterbur	Miyagi	May-19	CA	Cs137	2.2 Bq/kg raw	± 0.1 Bq/kg raw		2.3	Cs137	— Bq/kg raw
				Cs134	0.1 Bq/kg raw	± 0.05 Bq/kg raw			Cs134	— Bq/kg raw
Bracken	Akita	May-19	CA	Cs137	0.1 Bq/kg raw	± 0.05 Bq/kg raw		Under Minimum Limit of Detection	Cs137	— Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	— Bq/kg raw
Aralia sprout	Akita	May-19	OR	Cs137	9.2 Bq/kg raw	± 0.2 Bq/kg raw		9.7	Cs137	— Bq/kg raw
				Cs134	0.5 Bq/kg raw	± 0.1 Bq/kg raw			Cs134	— Bq/kg raw
Shiitake mushroom	Akita	May-19	CA	Cs137	1.5 Bq/kg raw	± 0.07 Bq/kg raw		1.5	Cs137	— Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	— Bq/kg raw
Dried whitebait	Hyogo	Dec-19	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
Egg	Kami,Miyagi	Dec-19	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

※"—" 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	Measuring instrument type	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection	
Tofu	Japan (production)	Dec-19	OR	Cs137	— Bq/kg raw	± —	Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.03 Bq/kg raw
				Cs134	— Bq/kg raw	± —	Bq/kg raw		Cs134	— Bq/kg raw
Sugar (sugar cane)	Okinawa	Jan-20	OR	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	— Bq/kg raw
Sugar	Okinawa and Kagoshima	Dec-19	OR	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	— Bq/kg raw
Rice miso	Tairashimo katayose,Iwaki	Jun-19	CA	Cs137	0.1 Bq/kg raw	± 0.05	Bq/kg raw	0.1	Cs137	— Bq/kg raw
				Cs134	— Bq/kg raw	± —	Bq/kg raw		Cs134	— Bq/kg raw
Ham	Nagano	Dec-19	CA	Cs137	0.03 Bq/kg raw	± 0.02	Bq/kg raw	0.03	Cs137	— Bq/kg raw
				Cs134	— Bq/kg raw	± —	Bq/kg raw		Cs134	— Bq/kg raw
Stew loux	Nishihara,Aso, Kumamoto	Jan-20	OR	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	— Bq/kg raw
Bread crumbs	Japan (production)	Dec-19	OR	Cs137	— Bq/kg raw	± —	Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.25 Bq/kg raw
				Cs134	— Bq/kg raw	± —	Bq/kg raw		Cs134	— Bq/kg raw
Yogurt	Okayama	Dec-19	CA	Cs137	0.05 Bq/kg raw	± 0.02	Bq/kg raw	0.05	Cs137	— Bq/kg raw
				Cs134	— Bq/kg raw	± —	Bq/kg raw		Cs134	— Bq/kg raw
Green tea	Shizuoka	Dec-19	OR	Cs137	0.7 Bq/kg raw	± 0.1	Bq/kg raw	0.7	Cs137	— Bq/kg raw
				Cs134	— Bq/kg raw	± —	Bq/kg raw		Cs134	— Bq/kg raw
Vacuum cleaner dust	Chiba	Dec-19	CA	Cs137	19 Bq/kg raw	± 2	Bq/kg raw	21	Cs137	— Bq/kg raw
				Cs134	2 Bq/kg raw	± 0.9	Bq/kg raw		Cs134	— Bq/kg raw
Vacuum cleaner dust (paper pack)	Yoshinogawa, Tokushima	Dec-19	CA	Cs137	2 Bq/kg raw	± 0.6	Bq/kg raw	2	Cs137	— Bq/kg raw
				Cs134	— Bq/kg raw	± —	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.

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