Radiation Measurement Results of 100 Items in February

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※
Na I Scintillation Spectrometer			
Product of ATOMTEX AT1320A 	Product of BERTHOLD LB2045 	・Gamma-ray spectrometer with Na I 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

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

Measuring instrument:Na I 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	
Sweet potato	Hirata, Ishikawa, Fukushima	Jan-25	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	2.3 Bq/kg raw
Sweet potato	Hirono, Futaba, Fukushima	Jan-25	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	2.4 Bq/kg raw
Potato	Tokiwa, Tamura, Fukushima	Feb-25	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	2.2 Bq/kg raw
Taro	Hirono, Futaba, Fukushima	Jan-25	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
Taro	Hirono, Futaba, Fukushima	Feb-25	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
Dried stems of taro	Namie, Futaba, Fukushima	Feb-25	Cs137	37.2 Bq/kg raw	±	7.9 Bq/kg raw	37.2	Cs137	6.0 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	5.3 Bq/kg raw
Dried stems of taro	Hirono, Futaba, Fukushima	Jan-25	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	6.3 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	5.0 Bq/kg raw
Turnip	Hirono, Futaba, Fukushima	Feb-25	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	1.5 Bq/kg raw
Carrot	Hirono, Futaba, Fukushima	Jan-25	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	2.4 Bq/kg raw
Dried white Japanese radish	Hirono, Futaba, Fukushima	Jan-25	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	6.6 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	6.1 Bq/kg raw
Cabbage	Namie, Futaba, Fukushima	Feb-25	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	3.4 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	3.1 Bq/kg raw
Green onion	Hirata, Ishikawa, Fukushima	Jan-25	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
Green onion	Fukushima, Fukushima Pref.	Jan-25	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	2.8 Bq/kg raw
Green onion	Namie, Futaba, Fukushima	Feb-25	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	2.4 Bq/kg raw
Yacon	Iwaki City	Feb-25	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
Broccoli	Iwaki City	Feb-25	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
Lotus root	Ibaraki Pref.	Feb-25	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	2.9 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		
Lemon	Tomioka, Futaba, Fukushima	Jan-25	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	1.0	Bq/kg raw
Lemon	Tomioka, Futaba, Fukushima	Jan-25	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
Sudachi citrus fruit	Kitaibaraki, Ibaraki Pref.	Feb-25	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
Shikuwasa citrus fruit	Kitaibaraki, Ibaraki Pref.	Feb-25	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	1.5	Bq/kg raw
Pear	Fukushima, Fukushima Pref.	Jan-25	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
Kiyora	Kitaibaraki, Ibaraki Pref.	Feb-25	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	1.5	Bq/kg raw
Spinach	Iwaki City	Feb-25	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	5.2	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	4.8	Bq/kg raw
Spinach	Shirakawa, Fukushima	Feb-25	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	5.2	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	4.8	Bq/kg raw
Tsubomina	Yotsukura, Iwaki	Jan-25	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	3.5	Bq/kg dry
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	3.1	Bq/kg dry
Turnip (leaf)	Hirono, Futaba, Fukushima	Feb-25	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	2.6	Bq/kg raw
Sea lettuce	Soma, Fukushima	Feb-25	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	21.2	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	17.0	Bq/kg raw
Green soybean	Hirono, Futaba, Fukushima	Feb-25	Cs137	3.4	Bq/kg raw	±	1.2	Bq/kg raw	3.4	Cs137	1.1	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.0	Bq/kg raw
Black soybean	Nihonmatsu, Fukushima	Feb-25	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
Konjac	Watari, Miyagi	Feb-25	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
Buckwheat flour	Hirata, Ishikawa, Fukushima	Jan-25	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
Sake lees	Domestic	Feb-25	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
Shitake mushroom grown in bacteria-bed	Iwaki City	Feb-25	Cs137	2.7	Bq/kg raw	±	1.5	Bq/kg raw	2.7	Cs137	2.0	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.4	Bq/kg raw
Dried shiitake mushroom(log-grown)	Iwaki City	Feb-25	Cs137	26.2	Bq/kg raw	±	9.9	Bq/kg raw	26.2	Cs137	13.6	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	10.9	Bq/kg raw
Soil	Yoshima, Iwaki	Jan-25	Cs137	305.0	Bq/kg dry	±	31.5	Bq/kg dry	305.0	Cs137	2.3	Bq/kg dry
			Cs134	—	Bq/kg dry	±	—	Bq/kg dry		Cs134	2.2	Bq/kg dry
Soil	Yoshima, Iwaki	Jan-25	Cs137	99.4	Bq/kg dry	±	11.2	Bq/kg dry	99.4	Cs137	3.5	Bq/kg dry
			Cs134	—	Bq/kg dry	±	—	Bq/kg dry		Cs134	3.2	Bq/kg dry
Soil	Onahama, Iwaki	Jan-25	Cs137	195.0	Bq/kg raw	±	20.2	Bq/kg raw	195.0	Cs137	1.8	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.7	Bq/kg raw
Soil	Onahama, Iwaki	Jan-25	Cs137	189.0	Bq/kg raw	±	20.2	Bq/kg raw	189.0	Cs137	3.4	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	3.1	Bq/kg raw
Soil	Onahama, Iwaki	Jan-25	Cs137	126.0	Bq/kg dry	±	13.9	Bq/kg dry	126.0	Cs137	3.3	Bq/kg dry
			Cs134	—	Bq/kg dry	±	—	Bq/kg dry		Cs134	3.0	Bq/kg dry
Soil	Onahama, Iwaki	Jan-25	Cs137	116.0	Bq/kg dry	±	12.3	Bq/kg dry	116.0	Cs137	1.9	Bq/kg dry
			Cs134	—	Bq/kg dry	±	—	Bq/kg dry		Cs134	1.8	Bq/kg dry
Soil	Onahama, Iwaki	Jan-25	Cs137	20.2	Bq/kg dry	±	2.7	Bq/kg dry	20.2	Cs137	2.6	Bq/kg dry
			Cs134	—	Bq/kg dry	±	—	Bq/kg dry		Cs134	3.0	Bq/kg dry

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★Gamma-ray

Measuring instrument		Feature	Guide to lower limit※
Germanium Semiconductor detector			
ORTEC GEM30-70	CANBERRA GC4020	・Radioactivity measurement series. Quantitative analysis based on "Gamma-ray spectrometry with germanium semiconductor detector." ・ORTEC GEM30-70 Relative efficiency 35% ・CANBERRA GC4020 Relative efficiency 43%	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	Measuring instrument type	Measurement Result			Uncertainty			Total Amount of Cesium	Minimum Limit of Detection		
Rice	Miharu,Tamura,Fukushima	Oct-24	CA	Cs137	0.17	Bq/kg raw	±	0.01	Bq/kg raw	0.17	Cs137	0.04	Bq/kg raw
				Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	0.04	Bq/kg raw
Rice	Akita Pref.	Oct-24	OR	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
Common bean	Kakuta,Miyagi	Nov-24	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	0.1	Bq/kg raw
Dried radish	Hirata,Ishikawa,Fukushima	Jan-25	OR	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.4	Bq/kg raw
				Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	0.5	Bq/kg raw
Butterbur sprout	Naraha,Futaba,Fukushima	Feb-25	OR	Cs137	1.4	Bq/kg raw	±	0.1	Bq/kg raw	1.4	Cs137	0.1	Bq/kg raw
				Cs134	–	Bq/kg raw	±	–	Bq/kg raw		Cs134	0.1	Bq/kg raw
Lemon	Tomioka,Futaba,Fukushima	Jan-25	OR	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
Azuki bean	Motomiya,Fukushima	Oct-24	CA	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.3	Bq/kg raw
				Cs134	–	Bq/kg raw	±	–	Bq/kg raw		Cs134	0.4	Bq/kg raw
Perilla	Kawauchi,Futaba,Fukushima	Oct-24	OR	Cs137	1.1	Bq/kg raw	±	0.4	Bq/kg raw	1.1	Cs137	0.9	Bq/kg raw
				Cs134	–	Bq/kg raw	±	–	Bq/kg raw		Cs134	1.1	Bq/kg raw
Japanese horse mackerel	Iwaki City Hisanohama Port	Oct-24	OR	Cs137	0.21	Bq/kg raw	±	0.04	Bq/kg raw	0.21	Cs137	0.08	Bq/kg raw
				Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	0.09	Bq/kg raw
Pork	Fukushima Pref.	Feb-25	OR	Cs137	0.23	Bq/kg raw	±	0.06	Bq/kg raw	0.23	Cs137	0.11	Bq/kg raw
				Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	0.12	Bq/kg raw
Pork	Domestic	Feb-25	CA	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
Beef	Fukushima Pref.	Feb-25	CA	Cs137	0.50	Bq/kg raw	±	0.06	Bq/kg raw	0.50	Cs137	0.17	Bq/kg raw
				Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	0.10	Bq/kg raw
Brown rice tea	Iwaki City & Shizuoka Pref.	Feb-25	OR	Cs137	1.0	Bq/kg raw	±	0.4	Bq/kg raw	1.0	Cs137	0.9	Bq/kg raw
				Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	0.9	Bq/kg raw
Chili pepper	Hirata,Ishikawa,Fukushima	Jan-25	OR	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
Sake	Namie,Futaba,Fukushima	Feb-25	OR	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.05	Bq/kg raw
				Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	0.05	Bq/kg raw
Milk	Iwaki City	Jan-25	OR	Cs137	0.09	Bq/L	±	0.01	Bq/L	0.09	Cs137	0.02	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.02	Bq/L
Milk	Motomiya,Fukushima	Feb-25	OR	Cs137	0.34	Bq/L	±	0.02	Bq/L	0.34	Cs137	0.04	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.04	Bq/L
Milk	Motomiya,Fukushima	Feb-25	CA	Cs137	0.35	Bq/L	±	0.01	Bq/L	0.35	Cs137	0.03	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.03	Bq/L
Milk	Motomiya,Fukushima	Jan-25	CA	Cs137	0.24	Bq/L	±	0.01	Bq/L	0.24	Cs137	0.03	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.03	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.

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		
Milk	Furukawa, Ibaraki	Jan-25	CA	Cs137	0.05	Bq/L	±	0.02	Bq/L	0.05	Cs137	0.03	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.03	Bq/L
Milk	Katsurao, Iwate, Iwate Pref.	Jan-25	OR	Cs137	0.06	Bq/L	±	0.01	Bq/L	0.06	Cs137	0.03	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.03	Bq/L
Milk	Sapporo, Hokkaido	Jan-25	CA	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
Milk beverage	Koriyama, Fukushima	Feb-25	CA	Cs137	0.08	Bq/L	±	0.01	Bq/L	0.08	Cs137	0.04	Bq/L
				Cs134	–	Bq/L	±	—	Bq/L		Cs134	0.03	Bq/L
Milk beverage	Mito, Ibaraki	Jan-25	CA	Cs137	0.06	Bq/L	±	0.02	Bq/L	0.06	Cs137	0.03	Bq/L
				Cs134	–	Bq/L	±	–	Bq/L		Cs134	0.03	Bq/L
Loquat(fallen flower)	Izumigaoka, Iwaki City	Feb-25	CA	Cs137	7.6	Bq/kg raw	±	0.7	Bq/kg raw	7.6	Cs137	1.3	Bq/kg raw
				Cs134	–	Bq/kg raw	±	–	Bq/kg raw		Cs134	1.2	Bq/kg raw
Dried shiitake mushroom broth	Domestic	Jan-25	OR	Cs137	0.06	Bq/kg raw	±	0.03	Bq/kg raw	0.06	Cs137	0.05	Bq/kg raw
				Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	0.06	Bq/kg raw
Soil (river sediment)	Hiroshima Pref.	Jan-25	CA	Cs137	—	Bq/kg dry	±	—	Bq/kg dry	Under Minimum Limit of Detection	Cs137	0.7	Bq/kg dry
				Cs134	—	Bq/kg dry	±	—	Bq/kg dry		Cs134	0.6	Bq/kg dry
Soil (river sediment)	Hiroshima Pref.	Jan-25	CA	Cs137	–	Bq/kg dry	±	–	Bq/kg dry	Under Minimum Limit of Detection	Cs137	0.9	Bq/kg dry
				Cs134	—	Bq/kg dry	±	—	Bq/kg dry		Cs134	0.9	Bq/kg dry
Soil (river sediment)	Hiroshima Pref.	Jan-25	CA	Cs137	–	Bq/kg dry	±	–	Bq/kg dry	Under Minimum Limit of Detection	Cs137	0.4	Bq/kg dry
				Cs134	—	Bq/kg dry	±	—	Bq/kg dry		Cs134	0.3	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

★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 tritium 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	
Oyster	Miyagi Pref. Higashimatsushima	Nov-24	T(Tissue free water)	Under Minimum Limit of Detection	Bq/L	±	–	Bq/L	0.37	Bq/L
Flounder	Fukushima Daiichi Nuclear Power Station Offing	Jul-24	T(Organically bound)	Under Minimum Limit of Detection	Bq/kg raw	±	–	Bq/kg raw	0.09	Bq/kg raw
Flounder	Miyagi Pref. Sendai Bay	Sep-24	T(Organically bound)	Under Minimum Limit of Detection	Bq/kg raw	±	–	Bq/kg raw	0.08	Bq/kg raw
Oyster	Miyagi Pref. Higashimatsushima	Nov-24	T(Organically bound)	Under Minimum Limit of Detection	Bq/kg raw	±	–	Bq/kg raw	0.08	Bq/kg raw
Sea water C (surface)	Miyagi Pref. Sendai Bay	Apr-24	T(free)	0.10	Bq/L	±	0.04	Bq/L	0.04	Bq/L
Sea water C (lower)	Miyagi Pref. Sendai Bay	Apr-24	T(free)	0.08	Bq/L	±	0.04	Bq/L	0.04	Bq/L
Sea water (surface)	Fukushima Pref. Ukedo Port	Jun-24	T(free)	0.13	Bq/L	±	0.05	Bq/L	0.04	Bq/L
Sea water (surface)	Fukushima Pref. Soma Port	Jun-24	T(free)	0.14	Bq/L	±	0.05	Bq/L	0.04	Bq/L
Sea water (surface)	Fukushima Pref. Murakami Coast	Jun-24	T(free)	0.08	Bq/L	±	0.04	Bq/L	0.04	Bq/L
Sea water (surface)	Fukushima Pref. Futaba Beach	Jun-24	T(free)	0.09	Bq/L	±	0.04	Bq/L	0.04	Bq/L
Sea water (surface)	Fukushima Pref. Iwasawa Beach	Jun-24	T(free)	0.43	Bq/L	±	0.05	Bq/L	0.04	Bq/L
Flounder (head/bone)	Miyagi Offing	Sep-24	Sr90	Under Minimum Limit of Detection	Bq/kg dry	±	–	Bq/kg dry	0.45	Bq/kg dry
Black bass	Fukushima Pref. Fujiwara River	Aug-22	Sr90	Under Minimum Limit of Detection	Bq/kg dry	±	–	Bq/kg dry	0.18	Bq/kg dry
Wakame seaweed	Miyagi Offing& Fukushima Offing	Jul-24	Sr90	Under Minimum Limit of Detection	Bq/kg dry	±	–	Bq/kg dry	0.11	Bq/kg dry
Oyster	Miyagi Pref. Higashimatsushima	Nov-24	Sr90	Under Minimum Limit of Detection	Bq/kg dry	±	–	Bq/kg dry	0.12	Bq/kg dry
Sea water (surface)	Fukushima Pref. Futaba Beach	Nov-24	Sr90	0.0016	Bq/L	±	0.0003	Bq/L	0.0004	Bq/L
Sea water A (surface)	Fukushima Daiichi Nuclear Power Station Offing	Nov-24	Sr90	0.0007	Bq/L	±	0.0003	Bq/L	0.0005	Bq/L

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(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	
Sea water A (lower)	Fukushima Daiichi Nuclear Power Station Offing	Nov-24	Sr90	0.0008	Bq/L	± 0.0003	Bq/L		0.0004	Bq/L
Sea water B (surface)	Fukushima Daiichi Nuclear Power Station Offing	Nov-24	Sr90	Under Minimum Limit of Detection	Bq/L	± –	Bq/L		0.0004	Bq/L
Sea water B (lower)	Fukushima Daiichi Nuclear Power Station Offing	Nov-24	Sr90	0.0006	Bq/L	± 0.0003	Bq/L		0.0004	Bq/L
Sea water C (surface)	Fukushima Daiichi Nuclear Power Station Offing	Nov-24	Sr90	Under Minimum Limit of Detection	Bq/L	± –	Bq/L		0.0005	Bq/L
Sea water C (lower)	Fukushima Daiichi Nuclear Power Station Offing	Nov-24	Sr90	0.0005	Bq/L	± 0.0003	Bq/L		0.0004	Bq/L
Soil	Dai Park Sanuka, Iwaki	Dec-21	Sr90	Under Minimum Limit of Detection	Bq/kg dry	± –	Bq/kg dry		1.48	Bq/kg dry
Soil	Satogaoka, Iwaki Satogaoka2Chome Park.1	Feb-23	Sr90	Under Minimum Limit of Detection	Bq/kg dry	± –	Bq/kg dry		1.55	Bq/kg dry
Sediment (Drain)	Hiroshima Pref. Hinanai River	Jan-25	Sr90	Under Minimum Limit of Detection	Bq/kg dry	± –	Bq/kg dry		1.49	Bq/kg dry
Sediment (sluice gate)	Hiroshima Pref. Hinanai River	Jun-55	Sr90	Under Minimum Limit of Detection	Bq/kg dry	± –	Bq/L		1.71	Bq/kg dry
Sediment (Upstream)	Hiroshima Pref. Hinanai River	Jan-25	Sr90	Under Minimum Limit of Detection	Bq/L	± –	Bq/L		1.37	Bq/kg dry

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Measuring instrument		Feature	
Germanium Semiconductor detector			
ORTEC GEM30-70	CANBERRA GC4020	・Radioactivity measurement series Quantitative analysis based on "Gamma-ray spectrometry with germanium semiconductor detector." ・ORTEC GEM30-70 Relative efficiency 35 ・CANBERRA GC4020 Relative efficiency 4	・Measuring nuclides Cerium Half-life 284 days Ruthenium Half-life 374 days Niobium Half-life 20300 years Manganese Half-life 312 days Zinc Half-life 12.5 days Iron Half-life 45 days Cobalt Half-life 5.27 years
			

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

Measuring instrument:Germanium Semiconductor detector (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			Minimum Limit of Detection		
Sea water D (surface)	Fukushima Daiichi Nuclear Power Station Offing	Nov-24	OR	Ce144	—	Bq/L	±	—	Bq/L	Ce144	0.01	Bq/L
				Ru106	—	Bq/L	±	—	Bq/L	Ru106	0.01	Bq/L
				Nb94	—	Bq/L	±	—	Bq/L	Nb94	0.001	Bq/L
				Mn54	—	Bq/L	±	—	Bq/L	Mn54	0.001	Bq/L
				Zn65	—	Bq/L	±	—	Bq/L	Zn65	0.003	Bq/L
				Fe59	—	Bq/L	±	—	Bq/L	Fe59	0.004	Bq/L
				Co60	—	Bq/L	±	—	Bq/L	Co60	0.001	Bq/L
Sea water D (lower)	Fukushima Daiichi Nuclear Power Station Offing	Nov-24	OR	Ce144	—	Bq/L	±	—	Bq/L	Ce144	0.01	Bq/L
				Ru106	—	Bq/L	±	—	Bq/L	Ru106	0.01	Bq/L
				Nb94	—	Bq/L	±	—	Bq/L	Nb94	0.001	Bq/L
				Mn54	—	Bq/L	±	—	Bq/L	Mn54	0.001	Bq/L
				Zn65	—	Bq/L	±	—	Bq/L	Zn65	0.003	Bq/L
				Fe59	—	Bq/L	±	—	Bq/L	Fe59	0.007	Bq/L
				Co60	—	Bq/L	±	—	Bq/L	Co60	0.001	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.

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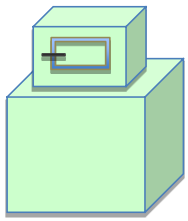
Measurement results of 16 items by germanium semiconductor detector

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%

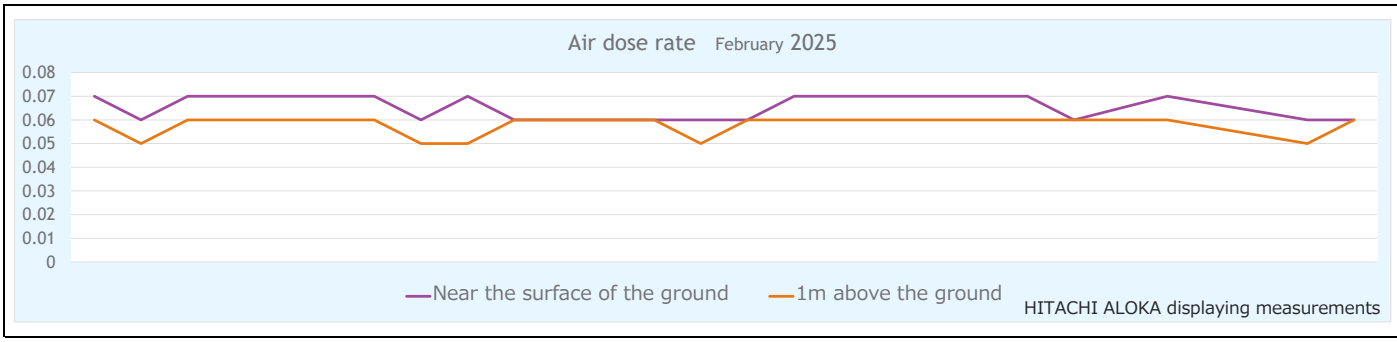
(Bq/kg raw:Weight of raw sample Bq/kg dry:Weight of dried sample)

Samples	Sampling Point	Sampling Month	Measuring instrument type	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection	
Sweet potato	Iwaki City	Dec-24	OR	Cs137	0.19 Bq/kg raw	± 0.06 Bq/kg raw	0.19	Cs137	Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw
Sweet potato	Nishigo, Nishishirakawa, Fukushima	Jan-25	CA	Cs137	0.55 Bq/kg raw	± 0.07 Bq/kg raw	0.55	Cs137	Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw
Taro	Miharu, Tamura, Fukushima	Jan-25	OR	Cs137	0.24 Bq/kg raw	± 0.08 Bq/kg raw	0.24	Cs137	Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw
Carrot	Iwaki City	Jan-25	CA	Cs137	0.04 Bq/kg raw	± 0.02 Bq/kg raw	0.04	Cs137	Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw
Cabbage	Miharu, Tamura, Fukushima	Jan-25	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
Chinese cabbage	Iwaki City	Dec-24	CA	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
Green onion	Iwaki City	Jan-25	OR	Cs137	0.05 Bq/kg raw	± 0.04 Bq/kg raw	0.05	Cs137	Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw
Lotus root	Ibaraki Pref.	Jan-25	CA	Cs137	2.5 Bq/kg raw	± 0.04 Bq/kg raw	2.53	Cs137	Bq/kg raw
				Cs134	0.03 Bq/kg raw	± 0.016 Bq/kg raw		Cs134	Bq/kg raw
Burdock	Fukushima Pref.	Jan-25	OR	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
Burdock	Nihonmatsu, Fukushima	Jan-25	CA	Cs137	0.37 Bq/kg raw	± 0.07 Bq/kg raw	0.37	Cs137	Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw
Yuzu	Iwaki City	Dec-24	OR	Cs137	0.25 Bq/kg raw	± 0.06 Bq/kg raw	0.25	Cs137	Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw
Garland chrysanthemum	Miharu, Tamura, Fukushima	Jan-25	OR	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.35 Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw
Tatsoi	Iwaki City	Jan-25	CA	Cs137	0.12 Bq/kg raw	± 0.02 Bq/kg raw	0.12	Cs137	Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw
Udo	Fukushima Pref.	Jan-25	CA	Cs137	3.6 Bq/kg raw	± 0.1 Bq/kg raw	3.6	Cs137	Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw
Aralia sprout	Kawauchi, Futaba, Fukushima	Jan-25	CA	Cs137	0.22 Bq/kg raw	± 0.06 Bq/kg raw	0.22	Cs137	Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw
Ginkgo	Iwaki City	Jan-25	OR	Cs137	1.1 Bq/kg raw	± 0.1 Bq/kg raw	1.1	Cs137	Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw

Mothers' Radiation Lab Fukushima

Air dose rate February 2025

Measuring Instrument		Measuring Place
CsI Scintillation survey meter	NaI Scintillation survey meter	Yokocho Park, Onahama, Iwaki, Fukushima
⑧HITACHI ALOKA	⑦HORIBA Radi PA-1100	
		
Feature : Measuring air (space) radiation dose and radioactive surface contamination of human body and other things.		



	Measuring instrument	HORIBA Radi	
Measuring Date	Weather	Near the surface of the ground (μSv/h)	1m above the ground (μSv/h)
2025/2/3		0.074	0.062
2025/2/4		0.064	0.054
2025/2/5		0.071	0.062
2025/2/6		0.072	0.062
2025/2/7		0.077	0.065
Measuring Date	Weather	Near the surface of the ground (μSv/h)	1m above the ground (μSv/h)
2025/2/10		0.065	0.055
2025/2/12		0.071	0.057
2025/2/13		0.067	0.065
2025/2/14		0.069	0.060
Measuring Date	Weather	Near the surface of the ground (μSv/h)	1m above the ground (μSv/h)
2025/2/17		0.062	0.059
2025/2/18		0.067	0.062
2025/2/19		0.072	0.067
2025/2/20		0.072	0.062
2025/2/21		0.067	0.064
Measuring Date	Weather	Near the surface of the ground (μSv/h)	1m above the ground (μSv/h)
2025/2/25		0.072	0.063
2025/2/26		0.067	0.055
2025/2/27		0.067	0.063
2025/2/28		0.072	0.063