



Radiation Measurement Results of 125 Items in December



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	
Soil (in the park)	Kaminodai children's playground, Jyobankamiyunagaya, Ieaki	Oct-25	Cs137	750.0 Bq/kg dry	± 76.5 Bq/kg dry	757.8	Cs137	1.6 Bq/kg dry	
			Cs134	7.8 Bq/kg dry	± 1.1 Bq/kg dry		Cs134	1.5 Bq/kg dry	
Soil (bench)	Kaminodai children's playground, Jyobankamiyunagaya, Ieaki	Oct-25	Cs137	398.0 Bq/kg dry	± 41.5 Bq/kg dry	400.2	Cs137	2.6 Bq/kg dry	
			Cs134	2.2 Bq/kg dry	± 0.8 Bq/kg dry		Cs134	2.6 Bq/kg dry	
Soil (in the park)	Kaminodai children's playground, Jyobankamiyunagaya, Ieaki	Oct-25	Cs137	356.0 Bq/kg dry	± 37.5 Bq/kg dry	356.0	Cs137	4.4 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	3.3 Bq/kg dry	
Soil (basketball)	Kaminodai children's playground, Jyobankamiyunagaya, Ieaki	Oct-25	Cs137	252.0 Bq/kg dry	± 26.7 Bq/kg dry	252.0	Cs137	3.6 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	2.7 Bq/kg dry	
Soil (in the park)	Kaminodai children's playground, Jyobankamiyunagaya, Ieaki	Oct-25	Cs137	73.2 Bq/kg dry	± 7.8 Bq/kg dry	73.2	Cs137	1.5 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	1.1 Bq/kg dry	
Soil (slide)	Kaminodai children's playground, Jyobankamiyunagaya, Ieaki	Oct-25	Cs137	74.0 Bq/kg dry	± 7.9 Bq/kg dry	74.0	Cs137	1.4 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	1.0 Bq/kg dry	
Soil (bench)	Yudaido children's playground, Jyobanmatsugada i, Iwaki	Oct-25	Cs137	421.0 Bq/kg dry	± 42.9 Bq/kg dry	424.1	Cs137	1.1 Bq/kg dry	
			Cs134	3.1 Bq/kg dry	± 0.5 Bq/kg dry		Cs134	1.1 Bq/kg dry	
Soil (in the park)	Yudaido children's playground, Jyobanmatsugada i, Iwaki	Oct-25	Cs137	291.0 Bq/kg dry	± 30.8 Bq/kg dry	291.0	Cs137	4.2 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	3.4 Bq/kg dry	
Soil (swing)	Yudaido children's playground, Jyobanmatsugada i, Iwaki	Oct-25	Cs137	249.0 Bq/kg dry	± 26.3 Bq/kg dry	249.0	Cs137	3.4 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	2.6 Bq/kg dry	
Soil (in the park)	Yudaido children's playground, Jyobanmatsugada i, Iwaki	Oct-25	Cs137	141.0 Bq/kg dry	± 14.8 Bq/kg dry	141.0	Cs137	1.8 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	1.3 Bq/kg dry	
Soil (slide)	Yudaido children's playground, Jyobanmatsugada i, Iwaki	Oct-25	Cs137	114.0 Bq/kg dry	± 12.1 Bq/kg dry	114.0	Cs137	1.9 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	1.4 Bq/kg dry	
Soil (in the park)	Yudaido children's playground, Jyobanmatsugada i, Iwaki	Oct-25	Cs137	94.3 Bq/kg dry	± 9.9 Bq/kg dry	94.3	Cs137	1.5 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	1.1 Bq/kg dry	
Soil (in the park)	Yudaido children's playground, Jyobanmatsugada i, Iwaki	Oct-25	Cs137	60.8 Bq/kg dry	± 6.5 Bq/kg dry	60.8	Cs137	1.2 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	0.9 Bq/kg dry	
Soil (in the park)	Yudaido children's playground, Jyobanmatsugada i, Iwaki	Oct-25	Cs137	59.9 Bq/kg dry	± 6.4 Bq/kg dry	59.9	Cs137	1.3 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	0.9 Bq/kg dry	
Soil (Sandbox)	Yudaido children's playground, Jyobanmatsugada i, Iwaki	Oct-25	Cs137	— Bq/kg dry	± — Bq/kg dry	Under Minimum Limit of Detection	Cs137	2.0 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	1.6 Bq/kg dry	
Soil (in the park)	Icchyouda children's playground, Jyobanmatsugada i, Iwaki	Oct-25	Cs137	635.0 Bq/kg dry	± 67.1 Bq/kg dry	645.3	Cs137	2.8 Bq/kg dry	
			Cs134	10.3 Bq/kg dry	± 1.5 Bq/kg dry		Cs134	2.6 Bq/kg dry	
Soil (in the park)	Icchyouda children's playground, Jyobanmatsugada i, Iwaki	Oct-25	Cs137	375.0 Bq/kg dry	± 39.6 Bq/kg dry	375.0	Cs137	5.0 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	3.6 Bq/kg dry	

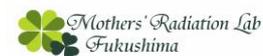
※"_"used in Measurement Result and Uncertainty shows that the value is below the detection limit.

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

Samples	Sampling Point	Sampling Month	Measurement Result		Uncertainty	Total Amount of Cesium	Minimum Limit of Detection	
Soil (bench)	Icchyouda children's playground, Jyoubanmatsugad ai, Iwaki	Oct-25	Cs137	206.0	± 21.4	206.0	Cs137	1.8
			Cs134	—	$\pm -$		Cs134	1.4
Soil (in the park)	Icchyouda children's playground, Jyoubanmatsugad ai, Iwaki	Oct-25	Cs137	200.0	± 20.8	200.0	Cs137	2.1
			Cs134	—	$\pm -$		Cs134	1.6
Soil (in the park)	Icchyouda children's playground, Jyoubanmatsugad ai, Iwaki	Oct-25	Cs137	118.0	± 12.4	118.0	Cs137	1.5
			Cs134	—	$\pm -$		Cs134	1.1
Soil (bench)	Icchyouda children's playground, Jyoubanmatsugad ai, Iwaki	Oct-25	Cs137	75.1	± 8.7	75.1	Cs137	3.6
			Cs134	—	$\pm -$		Cs134	2.7
Soil (in the park)	Nagakura children's playground, Jyobankamiyunag aya, Iwaki	Oct-25	Cs137	307.0	± 32.2	307.0	Cs137	3.4
			Cs134	—	$\pm -$		Cs134	2.5
Soil (bench)	Nagakura children's playground, Jyobankamiyunag aya, Iwaki	Oct-25	Cs137	226.0	± 24.0	226.0	Cs137	3.3
			Cs134	—	$\pm -$		Cs134	2.5
Soil (bench)	Nagakura children's playground, Jyobankamiyunag aya, Iwaki	Oct-25	Cs137	215.0	± 22.8	215.0	Cs137	3.1
			Cs134	—	$\pm -$		Cs134	2.3
Soil (in the park)	Nagakura children's playground, Jyobankamiyunag aya, Iwaki	Oct-25	Cs137	195.0	± 0.2	195.0	Cs137	1.7
			Cs134	—	$\pm -$		Cs134	1.3
Soil (Sandbox)	Nagakura children's playground, Jyobankamiyunag aya, Iwaki	Oct-25	Cs137	170.0	± 17.6	170.0	Cs137	1.4
			Cs134	—	$\pm -$		Cs134	1.0
Soil (in the park)	Nagakura children's playground, Jyobankamiyunag aya, Iwaki	Oct-25	Cs137	166.0	± 17.2	166.0	Cs137	1.6
			Cs134	—	$\pm -$		Cs134	1.2
Soil (in the park)	Nagakura children's playground, Jyobankamiyunag aya, Iwaki	Oct-25	Cs137	164.0	± 17.1	164.0	Cs137	1.8
			Cs134	—	$\pm -$		Cs134	1.3

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Measuring instrument		Feature		Guide to lower limit※	
Germanium Semiconductor detector					
ORTEC GEM30-70	CANBERRA GC4020	<ul style="list-style-type: none"> 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	
Sweet potato	Ibaraki Pref.	Nov-25	OR	Cs137	1.5 Bq/kg raw	± 0.2 Bq/kg raw	1.5	Cs137	0.3 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	0.3 Bq/kg raw
Carrot	Fukushima Pref.	Nov-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	0.1 Bq/kg raw
Burdock	Aomori Pref.	Dec-25	OR	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	0.3 Bq/kg raw
Lotus root	Ibaraki Pref.	Dec-25	OR	Cs137	0.9 Bq/kg raw	± 0.1 Bq/kg raw	0.9	Cs137	0.3 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	0.2 Bq/kg raw
Japanese white radish	Atami, Koriyama, Fukushima Pref.	Dec-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
Round Japanese white radish	Iwaki City	Dec-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	0.1 Bq/kg raw
Japanese red radish	Miura, Kanagawa Pref.	Nov-25	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	0.2 Bq/kg raw
Turnip	Akutsu, Koriyama, Fukushima Pref.	Dec-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	0.1 Bq/kg raw
Red turnip	Aomori Pref.	Nov-25	OR	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	0.3 Bq/kg raw
Small turnip	Fukui Pref.	Nov-25	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	0.11 Bq/kg raw
Pumpkin	Hokkaidou	Nov-25	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	0.2 Bq/kg raw
Cabbage	Tamura, Koriyama, Fukushima Pref.	Dec-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
Cabbage	Ibaraki Pref.	Nov-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
Lettuce	Ibaraki Pref.	Nov-25	CA	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	0.4 Bq/kg raw
Chinese cabbage	Ibaraki Pref.	Nov-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
Japanese mustard spinach	Ouse, Koriyama, Fukushima Pref.	Dec-25	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	0.3 Bq/kg raw
Garland chrysanthemum	Funehiki, Tamura, Fukushima Pref.	Dec-25	OR	Cs137	1.6 Bq/kg raw	± 0.3 Bq/kg raw	1.6	Cs137	0.5 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	0.5 Bq/kg raw
Garland chrysanthemum	Fukushima Pref.	Nov-25	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	0.3 Bq/kg raw
Asuparana	Fukushima Pref.	Nov-25	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	0.3 Bq/kg raw

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Samples	Sampling Point	Sampling Month	Measuring instrument type	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection	
				Cs137	Bq/kg raw	±	Bq/kg raw		Cs137	Bq/kg raw
Shantung vegetables	Fukushima Pref.	Nov-25	CA	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	0.3
				Cs134	—	±	—		Cs134	0.3
Japanese white radish (leaves)	Iwaki City	Nov-25	OR	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	0.4
				Cs134	—	±	—		Cs134	0.4
Broccoli	Nishida Koriyama, Fukushima Pref.	Dec-25	CA	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	0.2
				Cs134	—	±	—		Cs134	0.2
Broccoli	Fukushima Pref.	Dec-25	OR	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	0.3
				Cs134	—	±	—		Cs134	0.4
Celery	Fukuoka Pref.	Dec-25	OR	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	0.3
				Cs134	—	±	—		Cs134	0.3
Baby reaf	Nishishirakawa, Fukushima Pref.	Oct-25	OR	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	0.2
				Cs134	—	±	—		Cs134	0.3
Yuzu	Nakata, Koriyama, Fukushima Pref.	Dec-25	OR	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	0.3
				Cs134	—	±	—		Cs134	0.3
Yuzu	Iwaki City	Dec-25	CA	Cs137	0.2	±	0.07	0.2	Cs137	0.2
				Cs134	—	±	—		Cs134	0.2
Apple	Sukagawa, Fukushima Pref.	Dec-25	CA	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	0.1
				Cs134	—	±	—		Cs134	0.1
Papaya	Mihota, koriyama, Fukushima Pref.	Dec-25	OR	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	0.2
				Cs134	—	±	—		Cs134	0.2
Shitake mushroom grown in bacteria-bed(dried)	Minamisouma, Fukushima Pref.	Oct-25	OR	Cs137	34.7	±	1.1	34.7	Cs137	1.7
				Cs134	—	±	—		Cs134	1.9
Shimeji mushroom	Nagano Pref.	Dec-25	OR	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	0.4
				Cs134	—	±	—		Cs134	0.4
King oyster mushroom	Nagano Pref.	Nov-25	OR	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	0.06
				Cs134	—	±	—		Cs134	0.07
Dried jellyfish	Minamisouma, Fukushima Pref.	Oct-25	CA	Cs137	13.5	±	0.7	13.5	Cs137	1.3
				Cs134	—	±	—		Cs134	1.2
Egg	Nigata Pref.	Nov-25	OR	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	0.3
				Cs134	—	±	—		Cs134	0.3
White rockfish (flesh)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	CA	Cs137	0.9	±	0.1	0.9	Cs137	0.2
				Cs134	—	±	—		Cs134	0.2
White rockfish (flesh)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	CA	Cs137	0.8	±	0.1	0.8	Cs137	0.2
				Cs134	—	±	—		Cs134	0.2
White rockfish (flesh)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	CA	Cs137	0.7	±	0.1	0.7	Cs137	0.2
				Cs134	—	±	—		Cs134	0.2
White rockfish (flesh)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	CA	Cs137	0.7	±	0.07	0.7	Cs137	0.1
				Cs134	—	±	—		Cs134	0.1
White rockfish (flesh)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	CA	Cs137	0.6	±	0.02	0.6	Cs137	0.1
				Cs134	—	±	—		Cs134	0.1
White rockfish (flesh)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	CA	Cs137	0.6	±	0.07	0.6	Cs137	0.1
				Cs134	—	±	—		Cs134	0.1
White rockfish (flesh)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	CA	Cs137	0.5	±	0.1	0.5	Cs137	0.2
				Cs134	—	±	—		Cs134	0.2
Fox jacopever (flesh)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	CA	Cs137	0.8	±	0.07	0.8	Cs137	0.1
				Cs134	—	±	—		Cs134	0.1
Fox jacopever (flesh)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	CA	Cs137	0.3	±	0.1	0.3	Cs137	0.2
				Cs134	—	±	—		Cs134	0.2

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Samples	Sampling Point	Sampling Month	Measuring instrument type	Measurement Result			Uncertainty		Total Amount of Cesium	Minimum Limit of Detection			
Greenling (flesh)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	CA	Cs137	0.6	Bq/kg raw	±	0.05	Bq/kg raw	0.6	Cs137	0.08	Bq/kg raw
				Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	0.08	Bq/kg raw
Flounder (flesh)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	CA	Cs137	0.2	Bq/kg raw	±	0.02	Bq/kg raw	0.2	Cs137	0.06	Bq/kg raw
				Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	0.05	Bq/kg raw
Flounder (flesh)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	CA	Cs137	0.1	Bq/kg raw	±	0.04	Bq/kg raw	0.1	Cs137	0.09	Bq/kg raw
				Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	0.08	Bq/kg raw
Flounder (flesh)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	CA	Cs137	0.1	Bq/kg raw	±	0.04	Bq/kg raw	0.1	Cs137	0.08	Bq/kg raw
				Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	0.08	Bq/kg raw
Sea water A (surface)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	CA	Cs137	0.005	Bq/L	±	0.001	Bq/L	0.005	Cs137	0.002	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.002	Bq/L
Sea water A (lower)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	CA	Cs137	—	Bq/L	±	—	Bq/L	Under Minimum Limit of Detection	Cs137	0.002	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.002	Bq/L
Sea water B (surface)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	CA	Cs137	—	Bq/L	±	—	Bq/L	Under Minimum Limit of Detection	Cs137	0.002	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.002	Bq/L
Sea water B (lower)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	CA	Cs137	0.003	Bq/L	±	0.001	Bq/L	0.003	Cs137	0.002	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.002	Bq/L
Sea water C (surface)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	CA	Cs137	—	Bq/L	±	—	Bq/L	Under Minimum Limit of Detection	Cs137	0.002	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.002	Bq/L
Sea water C (lower)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	CA	Cs137	—	Bq/L	±	—	Bq/L	Under Minimum Limit of Detection	Cs137	0.002	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.002	Bq/L
Sea water D (surface)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	CA	Cs137	—	Bq/L	±	—	Bq/L	Under Minimum Limit of Detection	Cs137	0.002	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.002	Bq/L
Sea water D (lower)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	CA	Cs137	—	Bq/L	±	—	Bq/L	Under Minimum Limit of Detection	Cs137	0.002	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.002	Bq/L
Sea water (surface)	Tomiooka Port/ Fukushima Pref.	Nov-25	CA	Cs137	0.006	Bq/L	±	0.001	Bq/L	0.006	Cs137	0.002	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.002	Bq/L
Sea water (surface)	Sendai shinkou Port/Miyagi Pref.	Nov-25	CA	Cs137	0.003	Bq/L	±	0.001	Bq/L	0.003	Cs137	0.002	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.002	Bq/L
Sea water (surface)	Arahama Coast/ Miyagi Pref.	Nov-25	CA	Cs137	—	Bq/L	±	—	Bq/L	Under Minimum Limit of Detection	Cs137	0.002	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.002	Bq/L
Sea water (surface)	Hamaichi Coast/ Miyagi Pref.	Nov-25	CA	Cs137	—	Bq/L	±	—	Bq/L	Under Minimum Limit of Detection	Cs137	0.002	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.002	Bq/L
Suspended solid in sea water A (surface)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	OR	Cs137	—	Bq/L	±	—	Bq/L	Under Minimum Limit of Detection	Cs137	0.002	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.002	Bq/L
Suspended solid in sea water A (lower)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	OR	Cs137	0.003	Bq/L	±	0.001	Bq/L	0.003	Cs137	0.001	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.002	Bq/L
Suspended solid in sea water B (surface)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	OR	Cs137	—	Bq/L	±	—	Bq/L	Under Minimum Limit of Detection	Cs137	0.002	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.002	Bq/L
Suspended solid in sea water B (lower)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	OR	Cs137	—	Bq/L	±	—	Bq/L	Under Minimum Limit of Detection	Cs137	0.001	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.002	Bq/L
Suspended solid in sea water C (surface)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	OR	Cs137	—	Bq/L	±	—	Bq/L	Under Minimum Limit of Detection	Cs137	0.001	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.002	Bq/L
Suspended solid in sea water C (lower)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	OR	Cs137	—	Bq/L	±	—	Bq/L	Under Minimum Limit of Detection	Cs137	0.002	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.002	Bq/L
Suspended solid in sea water D (surface)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	OR	Cs137	—	Bq/L	±	—	Bq/L	Under Minimum Limit of Detection	Cs137	0.002	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.002	Bq/L
Suspended solid in sea water D (lower)	Off the coast of Fukushima Daiichi Nuclear Power Station	Nov-25	OR	Cs137	—	Bq/L	±	—	Bq/L	Under Minimum Limit of Detection	Cs137	0.002	Bq/L
				Cs134	—	Bq/L	±	—	Bq/L		Cs134	0.002	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.

Samples	Sampling Point	Sampling Month	Measuring instrument type	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection	
				Cs137	Cs134	Cs137	Cs134		Cs137	Cs134
Suspended solid in sea water (surface)	Tomiooka Port/ Fukushima Pref.	Nov-25	OR	Cs137	0.003 Bq/L	± 0.0009 Bq/L	0.003	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.002 Bq/L	
Suspended solid in sea water (surface)	Sendai shinkou Port/Miyagi Pref.	Nov-25	OR	Cs137	— Bq/L	± — Bq/L	検出下限値以下	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Suspended solid in sea water (surface)	Arahama Coast/ Miyagi Pref.	Nov-25	OR	Cs137	0.003 Bq/L	± 0.0005 Bq/L	0.003	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Suspended solid in sea water (surface)	Hamaichi Coast/ Miyagi Pref.	Nov-25	OR	Cs137	— Bq/L	± — Bq/L	検出下限値以下	Cs137	0.0009 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Soil (in the park)	Kaminodai children's playground, Jobankamiyunagaya, Iwaki	Oct-25	CA	Cs137	508.2 Bq/kg raw	± 2.5 Bq/kg 乾	514.1	Cs137	0.8 Bq/kg raw	
				Cs134	5.9 Bq/kg raw	± 0.3 Bq/kg 乾		Cs134	0.8 Bq/kg raw	
Soil (in the park)	Kaminodai children's playground, Jyobankamiyunagaya, Iwaki	Oct-25	CA	Cs137	378.0 Bq/kg raw	± 2.2 Bq/kg 乾	382.2	Cs137	0.8 Bq/kg raw	
				Cs134	4.2 Bq/kg raw	± 0.4 Bq/kg 乾		Cs134	1.0 Bq/kg raw	
Soil (in the park)	Iochyoda children's playground, Jyoubanmatsugadai, Iwaki	Oct-25	OR	Cs137	225.1 Bq/kg raw	± 0.5 Bq/kg 乾	227.9	Cs137	0.1 Bq/kg raw	
				Cs134	2.8 Bq/kg raw	± 0.1 Bq/kg 乾		Cs134	0.2 Bq/kg raw	
Ginkgo biloba (leaf)	Satogaoka, Iwaki	Dec-25	CA	Cs137	— Bq/kg raw	± — Bq/kg 生	検出下限値以下	Cs137	3.2 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg 生		Cs134	3.0 Bq/kg raw	
Dried chicken manure (fertilizer)	Gotenba, Shizuoka Pref.	Nov-25	OR	Cs137	0.6 Bq/kg raw	± 0.07 Bq/kg 生	0.6	Cs137	0.1 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg 生		Cs134	0.1 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.

★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 Half-life 12.3 years Free-water tritium Half-life 12.3 years All samples are measured in liquid condition after several days of pretreatment.

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

Samples	Sampling Point	Sampling Month	Measurement Result		Uncertainty		Minimum Limit of Detection	
Sea water D (surface)	Off the coast of Fukushima Nuclear Power Plant1	Jul-25	T (free)	0.23 Bq/kg raw	± 0.05 Bq/L	0.04 Bq/kg raw		
Sea water D (lower)	Off the coast of Fukushima Nuclear Power Plant1	Jul-25	T (free)	0.37 Bq/kg raw	± 0.05 Bq/L	0.04 Bq/kg raw		
Sea water	Chuou-ku, Nigata, Nigata Pref.	Aug-22	T (free)	0.14 Bq/L	± 0.09 Bq/L	0.09 Bq/L		
Sea water	Rikuzentakada, Iwatw Pref.	Jun-22	T (free)	0.16 Bq/L	± 0.09 Bq/L	0.09 Bq/L		
Sea water	Shiraki, Tsuruga, Fukui Pref.	Sep-21	T (free)	Under Minimum Limit of Detection Bq/L	± 0.09 Bq/L	0.09 Bq/L		
Sea water	Echizen, Nyuu, Fukui Pref.	Sep-21	T (free)	0.16 Bq/L	± 0.09 Bq/L	0.09 Bq/L		
Sea water	Takahama, Ooi, Fukui Pref.	Sep-21	T (free)	0.18 Bq/L	± 0.09 Bq/L	0.09 Bq/L		
Sea water	Around Sendai Nuclear Power Plant / Satsuma, Kagoshima Pref	Sep-22	T (free)	0.3 Bq/L	± 0.05 Bq/L	0.04 Bq/L		
Oyster	Higashimatsushima, Miyagi Pref.	Nov-25	Sr90	Under Minimum Limit of Detection Bq/kg dry	± - Bq/kg dry	0.18 Bq/kg dry		
Greenling (head, bone)	Off the coast of Fukushima Nuclear Power Plant1	Nov-25	Sr90	Under Minimum Limit of Detection Bq/kg dry	± - Bq/kg dry	0.09 Bq/kg dry		
Sea water C (surface)	Sendai Bay/ Miyagi Pref.	Sep-25	Sr90	0.0007 Bq/L	± 0.0003 Bq/L	0.0004 Bq/L		
Sea water C (surface)	Off the coast of Fukushima Nuclear Power Plant1	Nov-25	Sr90	Under Minimum Limit of Detection Bq/L	± - Bq/L	0.0005 Bq/L		
Sea water C (lower)	Off the coast of Fukushima Nuclear Power Plant1	Nov-25	Sr90	0.0007 Bq/L	± 0.0003 Bq/L	0.0005 Bq/L		
Sea water D (surface)	Off the coast of Fukushima Nuclear Power Plant1	Nov-25	Sr90	0.001 Bq/L	± 0.0003 Bq/L	0.0005 Bq/L		
Sea water D (lower)	Off the coast of Fukushima Nuclear Power Plant1	Nov-25	Sr90	0.0008 Bq/L	± 0.0003 Bq/L	0.0005 Bq/L		
Sea water (surface)	Tomiooka Port/ Fukushima Pref.	Nov-25	Sr90	0.0009 Bq/L	± 0.0003 Bq/L	0.0004 Bq/L		
Sea water (surface)	Hamaichi Coast/ Miyagi Pref.	Nov-25	Sr90	0.0011 Bq/L	± 0.0003 Bq/L	0.0005 Bq/L		
Sea water (surface)	Sendaisinkou Port/ Miyagi Pref.	Nov-25	Sr90	0.001 Bq/L	± 0.0003 Bq/L	0.0004 Bq/L		

(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 (surface)	Arahama Coast/ Miyagi Pref.	Nov-25	Sr90	0.0006 Bq/L	± 0.0003 Bq/L	0.0005 Bq/L
Soil	Sodegoshi Park, Kashima.Iwaki	Feb-22	Sr90	Under Minimum Limit of Detection Bq/kg dry	± - Bq/L	1.48 Bq/kg dry
Soil	Miyodounomae Park, Taira,Iwaki	Feb-22	Sr90	Under Minimum Limit of Detection Bq/kg dry	± - Bq/L	1.48 Bq/kg dry



Measurement results of 16 items by germanium semiconductor detector

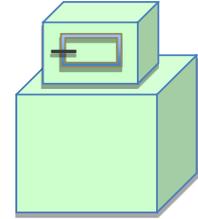
Dr.Tetsuji Imanaka, Institute of Multiple Nuclear Science, Kyoto University

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
- 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	
				Cs137	Cs134				Cs137	Cs134
Chestnut	Kakuta, Miyagi Pref.	Oct-25	OR	Cs137	1.9	Bq/kg raw	± 0.1	1.9	Cs137	Bq/kg raw
				Cs134	—	Bq/kg raw	± —		Cs134	Bq/kg raw
Raw peanut	Igu, Miyagi Pref.	Oct-25	OR	Cs137	0.44	Bq/kg raw	± 0.13	0.44	Cs137	Bq/kg raw
				Cs134	—	Bq/kg raw	± —		Cs134	Bq/kg raw
Pumpkin	Yonezawa, Yamagata Pref.	Aug-25	CA	Cs137	—	Bq/kg raw	± —	Under Minimum Limit of Detection	Cs137	0.04
				Cs134	—	Bq/kg raw	± —		Cs134	Bq/kg raw
Welsh onion	Yonezawa, Yamagata Pref.	Aug-25	OR	Cs137	—	Bq/kg raw	± —	Under Minimum Limit of Detection	Cs137	0.07
				Cs134	—	Bq/kg raw	± —		Cs134	Bq/kg raw
Eggplant	Nishiki Iwaki	Sep-25	CA	Cs137	—	Bq/kg raw	± —	Under Minimum Limit of Detection	Cs137	0.08
				Cs134	—	Bq/kg raw	± —		Cs134	Bq/kg raw
Butterbur	Minamisouma, Fukushima Pref.	Oct-25	CA	Cs137	0.56	Bq/kg raw	± 0.06	0.56	Cs137	Bq/kg raw
				Cs134	—	Bq/kg raw	± —		Cs134	Bq/kg raw
Pumpkin	Ibaraki Pref.	Aug-25	CA	Cs137	—	Bq/kg raw	± —	Under Minimum Limit of Detection	Cs137	0.08
				Cs134	—	Bq/kg raw	± —		Cs134	Bq/kg raw
White rockfish (pulp)	Souma, Fukushima Pref.	Oct-25	OR	Cs137	0.23	Bq/kg raw	± 0.06	0.23	Cs137	Bq/kg raw
				Cs134	—	Bq/kg raw	± —		Cs134	Bq/kg raw
Pumpkin	Hirataura, Ishikawa, Fukushima Pref.	Oct-25	CA	Cs137	0.05	Bq/kg raw	± 0.02	0.05	Cs137	Bq/kg raw
				Cs134	—	Bq/kg raw	± —		Cs134	Bq/kg raw
Chayote	Hirataura, Ishikawa, Fukushima Pref.	Oct-25	CA	Cs137	—	Bq/kg raw	± —	Under Minimum Limit of Detection	Cs137	0.05
				Cs134	—	Bq/kg raw	± —		Cs134	Bq/kg raw
Sudachi citrus fruit	Igu, Miyagi Pref.	Oct-25	CA	Cs137	0.2	Bq/kg raw	± 0.06	0.2	Cs137	Bq/kg raw
				Cs134	—	Bq/kg raw	± —		Cs134	Bq/kg raw
Taro	Kakuta, Miyagi Pref.	Oct-25	OR	Cs137	0.04	Bq/kg raw	± 0.03	0.04	Cs137	Bq/kg raw
				Cs134	—	Bq/kg raw	± —		Cs134	Bq/kg raw
Soil	Tabito, Iwaki	Oct-25	OR	Cs137	48.00	Bq/kg raw	± 0.60	48.45	Cs137	Bq/kg raw
				Cs134	0.45	Bq/kg raw	± 0.18		Cs134	Bq/kg raw
Myoga	Kakuta, Miyagi Pref.	Oct-25	CA	Cs137	0.30	Bq/kg raw	± 0.03	0.30	Cs137	Bq/kg raw
				Cs134	—	Bq/kg raw	± —		Cs134	Bq/kg raw
Persimmon	Souma, Fukushima Pref.	Oct-25	CA	Cs137	1.20	Bq/kg raw	± 0.07	1.2	Cs137	Bq/kg raw
				Cs134	—	Bq/kg raw	± —		Cs134	Bq/kg raw
Raw peanut	Souma, Fukushima Pref.	Oct-25	OR	Cs137	0.96	Bq/kg raw	± 0.16	0.96	Cs137	Bq/kg raw
				Cs134	—	Bq/kg raw	± —		Cs134	Bq/kg raw

Air dose rate December 2025

Measuring Instrument		Measuring Place
CsI Scintillation survey meter	NaI Scintillation survey meter	Yokocho Park, Onahama, Iwaki, Fukushima
ⓂHITACHI ALOKA TCS-1172	ⓂHORIBA Radi PA-1100	
		
Feature : Measuring air (space) radiation dose and radioactive surface contamination of human body and other things.		



Measuring Date	Weather	HORIBA Radi	
		Near the surface of the ground (μSv/h)	1m above the ground (μSv/h)
2025/12/1		0.062	0.051
2025/12/2		0.061	0.055
2025/12/3		0.062	0.058
2025/12/4		0.062	0.052
2025/12/5		0.064	0.057
Measuring Date	Weather	Near the surface of the ground (μSv/h)	1m above the ground (μSv/h)
2025/12/8		0.068	0.060
2025/12/9		0.067	0.062
2025/12/10		0.067	0.057
2025/12/11		0.067	0.062
2025/12/12		0.065	0.062
Measuring Date	Weather	Near the surface of the ground (μSv/h)	1m above the ground (μSv/h)
2025/12/15		0.062	0.060
2025/12/16		0.058	0.052
2025/12/17		0.062	0.052
2025/12/18		0.065	0.054
2025/12/19		0.067	0.053
Measuring Date	Weather	Near the surface of the ground (μSv/h)	1m above the ground (μSv/h)
2025/12/22		0.066	0.061
2025/12/23		0.063	0.052
2025/12/24		0.067	0.057
2025/12/25		0.065	0.055
2025/12/26		0.068	0.063
Measuring Date	Weather	Near the surface of the ground	1m above the ground (μSv/h)
2025/12/29			
2025/12/30			
2025/12/31			