



# Radiation Measurement Results of 177 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 ATOMETX 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	
Taro	Minamisoma, Fukushima	Dec-22	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	1.2 Bq/kg raw
Taro	Ohira, Koriyama, Fukushima	Dec-22	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	2.0 Bq/kg raw
Chinese yam	Iitate, Soma, Fukushima	Dec-22	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.0 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.6 Bq/kg raw
Chinese yam	Tamura, Koriyama, Fukushima	Dec-22	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
Dried stems of taro	Yamatsuri, Higashishirakawa, Fukushima	Dec-22	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	4.6 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	3.6 Bq/kg raw
Japanese white radish	Koriyama, Fukushima	Dec-22	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
Turnip	Nihonmatsu, Fukushima	Dec-22	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.3 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	2.1 Bq/kg raw
Brussels sprouts	Hirono, Futaba, Fukushima	Nov-22	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	3.0 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	2.8 Bq/kg raw
Spinach	Koriyama, Fukushima	Dec-22	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.5 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	2.3 Bq/kg raw
Chinese cabbage	Iitate, Soma, Fukushima	Dec-22	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.0 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.9 Bq/kg raw
Broccoli	Ono, Tamura, Fukushima	Nov-22	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	3.0 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	2.5 Bq/kg raw
Broccoli	Yabuki, Nishishirakawa, Fukushima	Dec-22	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	1.2 Bq/kg raw
Cauliflower	Minamisoma, Fukushima	Dec-22	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	2.0 Bq/kg raw
Yacon	Iitate, Soma, Fukushima	Dec-22	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
Japanese parsley	Miharu, Tamura, Fukushima	Dec-22	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	2.5 Bq/kg raw
Celery	Iitate, Soma, Fukushima	Dec-22	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	2.5 Bq/kg raw
Tatsoi	Ono, Tamura, Fukushima	Nov-22	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

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

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

★Gamma-ray

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

Samples	Sampling Point	Sampling Month	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection			
Perilla	Koriyama, Fukushima	Dec-22	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	9.0	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	7.1	Bq/kg raw
Green onion	Koriyama, Fukushima	Dec-22	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	3.5	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	3.3	Bq/kg raw
Green onion	Tenei, Iwase, Fukushima	Dec-22	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	2.6	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	2.4	Bq/kg raw
Ginger	Nishida, Koriyama, Fukushima	Dec-22	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	3.7	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	3.4	Bq/kg raw
Beats	Iitate, Soma, Fukushima	Dec-22	Cs137	2.4	Bq/kg raw	±	1.1	2.4	Cs137	1.4	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.0	Bq/kg raw
Ginkgo	Aizubange, Kawanuma, Fukushima	Dec-22	Cs137	1.7	Bq/kg raw	±	0.9	1.7	Cs137	1.3	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.1	Bq/kg raw
Green beans	Nihonmatsu, Fukushima	Dec-22	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.3	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.0	Bq/kg raw
Black beans	Ono, Tamura, Fukushima	Nov-22	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.1	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.0	Bq/kg raw
Persimmon	Okuma, Futaba, Fukushima	Nov-22	Cs137	56.0	Bq/kg raw	±	11.2	56.0	Cs137	2.6	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	2.1	Bq/kg raw
Persimmon	Okuma, Futaba, Fukushima	Nov-22	Cs137	14.4	Bq/kg raw	±	3.5	14.4	Cs137	2.8	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	2.3	Bq/kg raw
Persimmon	Okuma, Futaba, Fukushima	Nov-22	Cs137	48.6	Bq/kg raw	±	9.4	48.6	Cs137	2.0	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.9	Bq/kg raw
Yuzu	Minamisoma, Fukushima	Dec-22	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.1	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.0	Bq/kg raw
Yuzu	Koriyama, Fukushima	Dec-22	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	2.5	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	2.3	Bq/kg raw
Yuzu	Ishikawa, Ishikawa, Fukushima	Dec-22	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.6	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.4	Bq/kg raw
Apple	Tamura, Koriyama, Fukushima	Dec-22	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	2.3	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	2.2	Bq/kg raw
Mandarin orange	Iwaki City	Nov-22	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.5	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.2	Bq/kg raw
Japanese pear	Sukagawa, Fukushima	Dec-22	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	2.2	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	2.1	Bq/kg raw
Kiwi fruit	Miharu, Tamura, Fukushima	Nov-22	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.2	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.0	Bq/kg raw
Kiwi fruit	Soma, Fukushima	Dec-22	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.6	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.3	Bq/kg raw
Kiwi fruit	Hirata, Ishikawa, Fukushima	Dec-22	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	2.6	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	2.1	Bq/kg raw
Nameko mushroom (Pholiota nameko)	Koriyama, Fukushima	Dec-22	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.5	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.2	Bq/kg raw
Boar(thigh)	Onahama-shimokajiro, Iwaki	Dec-22	Cs137	111.0	Bq/kg raw	±	22.0	114.2	Cs137	1.7	Bq/kg raw
			Cs134	3.2	Bq/kg raw	±	1.2		Cs134	1.6	Bq/kg raw
Boar(liver)	Onahama-shimokajiro, Iwaki	Dec-22	Cs137	34.2	Bq/kg raw	±	6.5	34.2	Cs137	2.1	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.9	Bq/kg raw
Boar(heart)	Onahama-shimokajiro, Iwaki	Dec-22	Cs137	61.2	Bq/kg raw	±	7.20	61.2	Cs137	2.6	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	2.2	Bq/kg raw

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



★Gamma-ray

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

Samples	Sampling Point	Sampling Month	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection	
Amazake (fermented rice drink)	Shirakawa, Fukushima	Oct-22	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	2.0 Bq/kg raw
Soil (in the park)	Shimohirakubo daiichi Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	16.1 Bq/kg dry	±	1.9 Bq/kg dry	16.1	Cs137	1.2 Bq/kg dry
			Cs134	— Bq/kg dry	±	— Bq/kg dry		Cs134	1.4 Bq/kg dry
Soil (in the park)	Shimohirakubo daiichi Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	— Bq/kg dry	±	— Bq/kg dry	Under Minimum Limit of Detection	Cs137	2.3 Bq/kg dry
			Cs134	— Bq/kg dry	±	— Bq/kg dry		Cs134	2.3 Bq/kg dry
Soil (in the park)	Shimohirakubo daiichi Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	— Bq/kg dry	±	— Bq/kg dry	Under Minimum Limit of Detection	Cs137	1.3 Bq/kg dry
			Cs134	— Bq/kg dry	±	— Bq/kg dry		Cs134	1.3 Bq/kg dry
Soil (in the park)	Shimohirakubo daiichi Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	— Bq/kg dry	±	— Bq/kg dry	Under Minimum Limit of Detection	Cs137	1.4 Bq/kg dry
			Cs134	— Bq/kg dry	±	— Bq/kg dry		Cs134	1.4 Bq/kg dry
Soil(in the park) under the swing	Shimohirakubo daiichi Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	— Bq/kg dry	±	— Bq/kg dry	Under Minimum Limit of Detection	Cs137	1.3 Bq/kg dry
			Cs134	— Bq/kg dry	±	— Bq/kg dry		Cs134	1.2 Bq/kg dry
Soil(in the park) Sandbox	Shimohirakubo daiichi Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	— Bq/kg dry	±	— Bq/kg dry	Under Minimum Limit of Detection	Cs137	1.0 Bq/kg dry
			Cs134	— Bq/kg dry	±	— Bq/kg dry		Cs134	1.0 Bq/kg dry
Soil(in the park) under the animal seesaw	Shimohirakubo daiichi Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	— Bq/kg dry	±	— Bq/kg dry	Under Minimum Limit of Detection	Cs137	1.0 Bq/kg dry
			Cs134	— Bq/kg dry	±	— Bq/kg dry		Cs134	1.0 Bq/kg dry
Soil(in the park) under the playground equipment	Shimohirakubo daiichi Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	— Bq/kg dry	±	— Bq/kg dry	Under Minimum Limit of Detection	Cs137	2.3 Bq/kg dry
			Cs134	— Bq/kg dry	±	— Bq/kg dry		Cs134	2.2 Bq/kg dry
Soil(in the park) under the bench	Shimohirakubo daiichi Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	— Bq/kg dry	±	— Bq/kg dry	Under Minimum Limit of Detection	Cs137	2.4 Bq/kg dry
			Cs134	— Bq/kg dry	±	— Bq/kg dry		Cs134	2.6 Bq/kg dry
Soil(in the park) under the basketball goal	Shimohirakubo daiichi Park Taira-shimohirakubo, Iwaki	Nov-22	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	2.0 Bq/kg dry
Soil (in the park)	Shimohirakubo daini Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	418.0 Bq/kg dry	±	43.6 Bq/kg dry	429.5	Cs137	2.5 Bq/kg dry
			Cs134	11.5 Bq/kg dry	±	1.9 Bq/kg dry		Cs134	2.9 Bq/kg dry
Soil (in the park)	Shimohirakubo daini Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	56.4 Bq/kg dry	±	6.0 Bq/kg dry	56.4	Cs137	1.2 Bq/kg dry
			Cs134	— Bq/kg dry	±	— Bq/kg dry		Cs134	1.2 Bq/kg dry
Soil (in the park)	Shimohirakubo daini Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	22.5 Bq/kg dry	±	2.8 Bq/kg dry	22.5	Cs137	2.0 Bq/kg dry
			Cs134	— Bq/kg dry	±	— Bq/kg dry		Cs134	2.4 Bq/kg dry
Soil (in the park)	Shimohirakubo daini Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	10.2 Bq/kg dry	±	1.2 Bq/kg dry	10.2	Cs137	1.1 Bq/kg dry
			Cs134	— Bq/kg dry	±	— Bq/kg dry		Cs134	1.3 Bq/kg dry
Soil (in the park)	Shimohirakubo daini Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	— Bq/kg dry	±	— Bq/kg dry	Under Minimum Limit of Detection	Cs137	2.1 Bq/kg dry
			Cs134	— Bq/kg dry	±	— Bq/kg dry		Cs134	2.0 Bq/kg dry
Soil (in the park)	Shimohirakubo daini Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	— Bq/kg dry	±	— Bq/kg dry	Under Minimum Limit of Detection	Cs137	1.3 Bq/kg dry
			Cs134	— Bq/kg dry	±	— Bq/kg dry		Cs134	1.2 Bq/kg dry
Soil(in the park) under the basketball goal	Shimohirakubo daini Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	— Bq/kg dry	±	— Bq/kg dry	Under Minimum Limit of Detection	Cs137	1.1 Bq/kg dry
			Cs134	— Bq/kg dry	±	— Bq/kg dry		Cs134	1.1 Bq/kg dry
Soil(in the park) Sandbox	Shimohirakubo daini Park Taira-shimohirakubo, Iwaki	Nov-22	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(in the park) under the slide	Shimohirakubo daini Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	— Bq/kg dry	±	— Bq/kg dry	Under Minimum Limit of Detection	Cs137	1.2 Bq/kg dry
			Cs134	— Bq/kg dry	±	— Bq/kg dry		Cs134	1.2 Bq/kg dry
Soil(in the park) under the swing	Shimohirakubo daini Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	— Bq/kg dry	±	— Bq/kg dry	Under Minimum Limit of Detection	Cs137	1.3 Bq/kg dry
			Cs134	— Bq/kg dry	±	— Bq/kg dry		Cs134	1.3 Bq/kg dry
Soil (in the park)	Shimohirakubo daini Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	— Bq/kg dry	±	— Bq/kg dry	Under Minimum Limit of Detection	Cs137	1.3 Bq/kg dry
			Cs134	— Bq/kg dry	±	— Bq/kg dry		Cs134	1.3 Bq/kg dry
Soil (in the park)	Hirakubodanchimae Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	1360.0 Bq/kg dry	±	138.0 Bq/kg dry	1390.8	Cs137	1.9 Bq/kg dry
			Cs134	30.8 Bq/kg dry	±	3.6 Bq/kg dry		Cs134	2.0 Bq/kg dry
Soil (in the park)	Hirakubodanchimae Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	1050.0 Bq/kg dry	±	106.0 Bq/kg dry	1068.0	Cs137	1.7 Bq/kg dry
			Cs134	18.0 Bq/kg dry	±	2.3 Bq/kg dry		Cs134	1.7 Bq/kg dry

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



★Gamma-ray

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

Samples	Sampling Point	Sampling Month	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection	
Soil (in the park)	Hirakubodanchimae Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	1000.0 Bq/kg dry	± 103.0 Bq/kg dry	1031.8	Cs137	2.5 Bq/kg dry	
			Cs134	31.8 Bq/kg dry	± 3.7 Bq/kg dry		Cs134	2.8 Bq/kg dry	
Soil(in the park) under the slide	Hirakubodanchimae Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	364.0 Bq/kg dry	± 37.2 Bq/kg dry	374.8	Cs137	1.1 Bq/kg dry	
			Cs134	10.8 Bq/kg dry	± 1.4 Bq/kg dry		Cs134	1.2 Bq/kg dry	
Soil (in the park)	Hirakubodanchimae Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	352.0 Bq/kg dry	± 36.7 Bq/kg dry	363.2	Cs137	2.2 Bq/kg dry	
			Cs134	11.2 Bq/kg dry	± 1.8 Bq/kg dry		Cs134	2.7 Bq/kg dry	
Soil(in the park) under the animal seesaw	Hirakubodanchimae Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	279.0 Bq/kg dry	± 28.6 Bq/kg dry	285.8	Cs137	1.1 Bq/kg dry	
			Cs134	6.8 Bq/kg dry	± 1.0 Bq/kg dry		Cs134	1.3 Bq/kg dry	
Soil(in the park) under the horizontal bar	Hirakubodanchimae Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	206.0 Bq/kg dry	± 21.3 Bq/kg dry	214.0	Cs137	1.1 Bq/kg dry	
			Cs134	8.0 Bq/kg dry	± 1.1 Bq/kg dry		Cs134	1.3 Bq/kg dry	
Soil (in the park)	Hirakubodanchimae Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	183.0 Bq/kg dry	± 19.1 Bq/kg dry	188.8	Cs137	1.7 Bq/kg dry	
			Cs134	5.8 Bq/kg dry	± 1.0 Bq/kg dry		Cs134	1.7 Bq/kg dry	
Soil(in the park) under the tree	Hirakubodanchimae Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	118.0 Bq/kg dry	± 12.6 Bq/kg dry	120.4	Cs137	1.2 Bq/kg dry	
			Cs134	2.4 Bq/kg dry	± 0.6 Bq/kg dry		Cs134	1.5 Bq/kg dry	
Soil (in the park)	Hirakubodanchimae Park Taira-shimohirakubo, Iwaki	Nov-22	Cs137	111.0 Bq/kg dry	± 8.0 Bq/kg dry	111.0	Cs137	3.0 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	3.7 Bq/kg dry	
Soil (in the park)	Ishimorichuo Park 2, Ishimori, Iwaki	Dec-22	Cs137	865.0 Bq/kg dry	± 88.0 Bq/kg dry	886.6	Cs137	2.1 Bq/kg dry	
			Cs134	21.6 Bq/kg dry	± 2.7 Bq/kg dry		Cs134	2.3 Bq/kg dry	
Soil (in the park)	Ishimorichuo Park 2, Ishimori, Iwaki	Dec-22	Cs137	744.0 Bq/kg dry	± 75.8 Bq/kg dry	762.4	Cs137	1.8 Bq/kg dry	
			Cs134	18.4 Bq/kg dry	± 2.3 Bq/kg dry		Cs134	2.0 Bq/kg dry	
Soil(in the park) under the rest area	Ishimorichuo Park 2, Ishimori, Iwaki	Dec-22	Cs137	638.0 Bq/kg dry	± 65.0 Bq/kg dry	650.3	Cs137	1.4 Bq/kg dry	
			Cs134	12.3 Bq/kg dry	± 1.6 Bq/kg dry		Cs134	1.7 Bq/kg dry	
Soil(in the park) under the bench	Ishimorichuo Park 2, Ishimori, Iwaki	Dec-22	Cs137	414.0 Bq/kg dry	± 44.5 Bq/kg dry	425.8	Cs137	3.4 Bq/kg dry	
			Cs134	11.8 Bq/kg dry	± 2.0 Bq/kg dry		Cs134	4.4 Bq/kg dry	
Soil (in the park)	Ishimorichuo Park 2, Ishimori, Iwaki	Dec-22	Cs137	351.0 Bq/kg dry	± 36.1 Bq/kg dry	360.9	Cs137	1.4 Bq/kg dry	
			Cs134	9.9 Bq/kg dry	± 1.4 Bq/kg dry		Cs134	1.7 Bq/kg dry	
Soil(in the park) under the bench	Ishimorichuo Park 2, Ishimori, Iwaki	Dec-22	Cs137	297.0 Bq/kg dry	± 31.4 Bq/kg dry	305.8	Cs137	2.1 Bq/kg dry	
			Cs134	8.8 Bq/kg dry	± 1.4 Bq/kg dry		Cs134	2.8 Bq/kg dry	
Soil(in the park) under the swing	Ishimorichuo Park 2, Ishimori, Iwaki	Dec-22	Cs137	190.0 Bq/kg dry	± 20.6 Bq/kg dry	194.4	Cs137	2.6 Bq/kg dry	
			Cs134	4.4 Bq/kg dry	± 1.2 Bq/kg dry		Cs134	3.2 Bq/kg dry	
Soil (in the park)	Ishimorichuo Park 2, Ishimori, Iwaki	Dec-22	Cs137	99.7 Bq/kg dry	± 10.6 Bq/kg dry	101.3	Cs137	1.2 Bq/kg dry	
			Cs134	1.6 Bq/kg dry	± 0.5 Bq/kg dry		Cs134	1.5 Bq/kg dry	
Soil(in the park) under the playground equipment	Ishimorichuo Park 2, Ishimori, Iwaki	Dec-22	Cs137	89.2 Bq/kg dry	± 9.9 Bq/kg dry	89.2	Cs137	2.7 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	2.4 Bq/kg dry	
Soil(in the park) Sandbox	Ishimorichuo Park 2, Ishimori, Iwaki	Dec-22	Cs137	78.4 Bq/kg dry	± 8.4 Bq/kg dry	80.4	Cs137	1.0 Bq/kg dry	
			Cs134	2.0 Bq/kg dry	± 5.2 Bq/kg dry		Cs134	1.3 Bq/kg dry	
Soil(in the park) drinking fountains	Ishimorichuo Park 2, Ishimori, Iwaki	Dec-22	Cs137	73.4 Bq/kg dry	± 7.8 Bq/kg dry	76.4	Cs137	1.0 Bq/kg dry	
			Cs134	3.0 Bq/kg dry	± 0.6 Bq/kg dry		Cs134	1.2 Bq/kg dry	
Soil(in the park) under the slide	Ishimorichuo Park 2, Ishimori, Iwaki	Dec-22	Cs137	48.8 Bq/kg dry	± 5.4 Bq/kg dry	48.8	Cs137	1.6 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	1.4 Bq/kg dry	
Soil(in the park) under the horizontal bar	Ishimorichuo Park 2, Ishimori, Iwaki	Dec-22	Cs137	16.6 Bq/kg dry	± 1.9 Bq/kg dry	16.6	Cs137	1.1 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	1.3 Bq/kg dry	
Soil (in the park)	Ishimorichuo Park 2, Ishimori, Iwaki	Dec-22	Cs137	7.4 Bq/kg dry	± 1.0 Bq/kg dry	7.4	Cs137	1.5 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	1.9 Bq/kg dry	
Soil (in the park)	Ishimorihigashi Park 1, Ishimori, Iwaki	Dec-22	Cs137	2860.0 Bq/kg dry	± 288.0 Bq/kg dry	2925.3	Cs137	2.3 Bq/kg dry	
			Cs134	65.3 Bq/kg dry	± 7.1 Bq/kg dry		Cs134	2.0 Bq/kg dry	
Soil (in the park)	Ishimorihigashi Park 1, Ishimori, Iwaki	Dec-22	Cs137	1050.0 Bq/kg dry	± 106.0 Bq/kg dry	1076.7	Cs137	1.7 Bq/kg dry	
			Cs134	26.7 Bq/kg dry	± 3.1 Bq/kg dry		Cs134	1.9 Bq/kg dry	

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

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

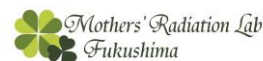
★Gamma-ray

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



Samples	Sampling Point	Sampling Month	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection	
Soil (in the park)	Ishimorihigashi Park 1, Ishimori, Iwaki	Dec-22	Cs137	940.0 Bq/kg dry	± 96.3 Bq/kg dry	959.5	Cs137	2.7 Bq/kg dry	
			Cs134	19.5 Bq/kg dry	± 2.6 Bq/kg dry		Cs134	3.0 Bq/kg dry	
Soil (in the park)	Ishimorihigashi Park 1, Ishimori, Iwaki	Dec-22	Cs137	906.0 Bq/kg dry	± 94.4 Bq/kg dry	930.9	Cs137	3.8 Bq/kg dry	
			Cs134	24.9 Bq/kg dry	± 3.4 Bq/kg dry		Cs134	4.6 Bq/kg dry	
Soil(in the park) under the tree	Ishimorihigashi Park 1, Ishimori, Iwaki	Dec-22	Cs137	646.0 Bq/kg dry	± 66.1 Bq/kg dry	662.6	Cs137	1.7 Bq/kg dry	
			Cs134	16.6 Bq/kg dry	± 2.1 Bq/kg dry		Cs134	2.1 Bq/kg dry	
Soil(in the park) under the swing	Ishimorihigashi Park 1, Ishimori, Iwaki	Dec-22	Cs137	247.0 Bq/kg dry	± 26.2 Bq/kg dry	253.3	Cs137	2.1 Bq/kg dry	
			Cs134	6.3 Bq/kg dry	± 1.2 Bq/kg dry		Cs134	2.7 Bq/kg dry	
Soil(in the park) under the slide	Ishimorihigashi Park 1, Ishimori, Iwaki	Dec-22	Cs137	135.0 Bq/kg dry	± 15.0 Bq/kg dry	135.0	Cs137	3.6 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	3.3 Bq/kg dry	
Soil(in the park) Sandbox	Ishimorihigashi Park 1, Ishimori, Iwaki	Dec-22	Cs137	52.5 Bq/kg dry	± 5.9 Bq/kg dry	52.5	Cs137	2.1 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	1.9 Bq/kg dry	
Soil (in the park)	Ishimorihigashi Park 1, Ishimori, Iwaki	Dec-22	Cs137	4.1 Bq/kg dry	± 0.8 Bq/kg dry	4.1	Cs137	1.8 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	2.1 Bq/kg dry	
Soil (in the park)	Ishimorinishi Park 1, Ishimori, Iwaki	Dec-22	Cs137	2150.0 Bq/kg dry	± 217.0 Bq/kg dry	2210.7	Cs137	2.0 Bq/kg dry	
			Cs134	60.7 Bq/kg dry	± 6.5 Bq/kg dry		Cs134	1.8 Bq/kg dry	
Soil (in the park)	Ishimorinishi Park 1, Ishimori, Iwaki	Dec-22	Cs137	1490.0 Bq/kg dry	± 151.0 Bq/kg dry	1526.7	Cs137	1.8 Bq/kg dry	
			Cs134	36.7 Bq/kg dry	± 4.1 Bq/kg dry		Cs134	1.7 Bq/kg dry	
Soil (in the park)	Ishimorinishi Park 1, Ishimori, Iwaki	Dec-22	Cs137	1380.0 Bq/kg dry	± 139.0 Bq/kg dry	1414.0	Cs137	1.5 Bq/kg dry	
			Cs134	34.0 Bq/kg dry	± 3.8 Bq/kg dry		Cs134	1.4 Bq/kg dry	
Soil(in the park) under the tree	Ishimorinishi Park 1, Ishimori, Iwaki	Dec-22	Cs137	1280.0 Bq/kg dry	± 130.0 Bq/kg dry	1317.3	Cs137	1.9 Bq/kg dry	
			Cs134	37.3 Bq/kg dry	± 4.1 Bq/kg dry		Cs134	1.9 Bq/kg dry	
Soil(in the park) under the horizontal bar	Ishimorinishi Park 1, Ishimori, Iwaki	Dec-22	Cs137	532.0 Bq/kg dry	± 54.5 Bq/kg dry	544.1	Cs137	1.5 Bq/kg dry	
			Cs134	12.1 Bq/kg dry	± 1.6 Bq/kg dry		Cs134	1.8 Bq/kg dry	
Soil(in the park) under the bench	Ishimorinishi Park 1, Ishimori, Iwaki	Dec-22	Cs137	377.0 Bq/kg dry	± 38.6 Bq/kg dry	385.6	Cs137	1.2 Bq/kg dry	
			Cs134	8.6 Bq/kg dry	± 1.2 Bq/kg dry		Cs134	1.3 Bq/kg dry	
Soil (in the park)	Ishimorinishi Park 1, Ishimori, Iwaki	Dec-22	Cs137	354.0 Bq/kg dry	± 36.2 Bq/kg dry	363.4	Cs137	1.2 Bq/kg dry	
			Cs134	9.4 Bq/kg dry	± 1.3 Bq/kg dry		Cs134	1.4 Bq/kg dry	
Soil(in the park) under the slide	Ishimorinishi Park 1, Ishimori, Iwaki	Dec-22	Cs137	260.0 Bq/kg dry	± 27.6 Bq/kg dry	266.9	Cs137	2.1 Bq/kg dry	
			Cs134	6.9 Bq/kg dry	± 1.3 Bq/kg dry		Cs134	2.6 Bq/kg dry	
Soil(in the park) under the swing	Ishimorinishi Park 1, Ishimori, Iwaki	Dec-22	Cs137	101.0 Bq/kg dry	± 11.0 Bq/kg dry	103.6	Cs137	1.7 Bq/kg dry	
			Cs134	2.6 Bq/kg dry	± 0.8 Bq/kg dry		Cs134	2.2 Bq/kg dry	
Soil(in the park) Sandbox	Ishimorinishi Park 1, Ishimori, Iwaki	Dec-22	Cs137	65.5 Bq/kg dry	± 7.3 Bq/kg dry	65.5	Cs137	2.2 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	2.0 Bq/kg dry	
Soil (in the park)	Ishimorinishi Park 1, Ishimori, Iwaki	Dec-22	Cs137	20.8 Bq/kg dry	± 2.6 Bq/kg dry	20.8	Cs137	2.0 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	2.3 Bq/kg dry	
Vacuum cleaner dust	Onahama-hanabatake, Iwaki	Sep-22	Cs137	250.5 Bq/kg raw	± 24.0 Bq/kg raw	255.5	Cs137	5.1 Bq/kg raw	
			Cs134	5.0 Bq/kg raw	± 3.4 Bq/kg raw		Cs134	4.3 Bq/kg raw	

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

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



★Gamma-ray

Measuring instrument		Feature		Guide to lower limit※	
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	
Brown rice	Nukada, Naka, Ibaraki	Oct-22	OR	Cs137	0.2 Bq/kg raw	± 0.09 Bq/kg raw	0.2	Cs137	0.1 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			0.2 Bq/kg raw	
Rice	Akita Pref.	Oct-22	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			0.03 Bq/kg raw	
Sweet potato (with peel)	Gotenba, Shizuoka	Oct-22	OR	Cs137	0.36 Bq/kg raw	± 0.03 Bq/kg raw	0.36	Cs137	0.06 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			0.06 Bq/kg raw	
Sweet potato	Gotenba, Shizuoka	Oct-22	CA	Cs137	0.32 Bq/kg raw	± 0.03 Bq/kg raw	0.32	Cs137	0.05 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			0.05 Bq/kg raw	
Japanese white radish	Kawauchi, Futaba, Fukushima	Dec-22	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			0.03 Bq/kg raw	
Japanese white radish	Kawauchi, Futaba, Fukushima	Dec-22	OR	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			0.06 Bq/kg raw	
Naratake mushroom (Armillaria mellea)	Hinoemata, Minamiaizu, Fukushima	Dec-22	OR	Cs137	16.4 Bq/kg raw	± 0.3 Bq/kg raw	16.4	Cs137	0.2 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			0.2 Bq/kg raw	
Sangoharitake mushroom (Hericiaceae)	Hinoemata, Minamiaizu, Fukushima	Dec-22	CA	Cs137	15.3 Bq/kg raw	± 0.2 Bq/kg raw	15.3	Cs137	0.2 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			0.3 Bq/kg raw	
Bunaharitake mushroom (Mycleptodonoides aitchisonii)	Hinoemata, Minamiaizu, Fukushima	Dec-22	OR	Cs137	6.7 Bq/kg raw	± 0.2 Bq/kg raw	6.7	Cs137	0.2 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			0.3 Bq/kg raw	
Ginkgo	Miharu, Tamura, Fukushima	Nov-22	CA	Cs137	3.7 Bq/kg raw	± 0.9 Bq/kg raw	3.7	Cs137	1.7 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			1.5 Bq/kg raw	
Pacific saury	Onahama Port/ Iwaki City	Oct-22	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			0.3 Bq/kg raw	
White rockfish	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	OR	Cs137	1.8 Bq/kg raw	± 0.1 Bq/kg raw	1.8	Cs137	0.3 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			0.3 Bq/kg raw	
White rockfish	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	CA	Cs137	1.2 Bq/kg raw	± 0.1 Bq/kg raw	1.2	Cs137	0.1 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			0.1 Bq/kg raw	
White rockfish	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	CA	Cs137	1.2 Bq/kg raw	± 0.1 Bq/kg raw	1.2	Cs137	0.3 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			0.3 Bq/kg raw	
White rockfish	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	CA	Cs137	1.2 Bq/kg raw	± 0.2 Bq/kg raw	1.2	Cs137	0.4 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			0.4 Bq/kg raw	
White rockfish	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	CA	Cs137	1.1 Bq/kg raw	± 0.2 Bq/kg raw	1.1	Cs137	0.3 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			0.3 Bq/kg raw	
Greenling	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	OR	Cs137	0.9 Bq/kg raw	± 0.1 Bq/kg raw	0.9	Cs137	0.2 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			0.2 Bq/kg raw	
Flounder	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	OR	Cs137	0.74 Bq/kg raw	± 0.04 Bq/kg raw	0.74	Cs137	0.08 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			0.09 Bq/kg raw	
Red sea bream	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	CA	Cs137	0.5 Bq/kg raw	± 0.1 Bq/kg raw	0.5	Cs137	0.2 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			0.2 Bq/kg raw	
Red sea bream	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	OR	Cs137	1.0 Bq/kg raw	± 0.1 Bq/kg raw	1.0	Cs137	0.2 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			0.3 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.

Samples	Sampling Point	Sampling Month	Measuring instrument type	Measurement Result		Uncertainty	Total Amount of Cesium	Minimum Limit of Detection	
Red sea bream	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	CA	Cs137	0.39 Bq/kg raw	± 0.06 Bq/kg raw	0.39	Cs137	0.1 Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.1 Bq/kg raw
Red sea bream	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	CA	Cs137	0.5 Bq/kg raw	± 0.1 Bq/kg raw	0.5	Cs137	0.3 Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.3 Bq/kg raw
Crimson sea bream	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	CA	Cs137	1.8 Bq/kg raw	± 0.3 Bq/kg raw	1.8	Cs137	0.7 Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.7 Bq/kg raw
Japanese puffer fish	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	OR	Cs137	1.3 Bq/kg raw	± 0.1 Bq/kg raw	1.3	Cs137	0.2 Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.2 Bq/kg raw
Japanese puffer fish	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	CA	Cs137	0.6 Bq/kg raw	± 0.1 Bq/kg raw	0.6	Cs137	0.2 Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.2 Bq/kg raw
Bambooleaf wrasse	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	CA	Cs137	0.5 Bq/kg raw	± 0.1 Bq/kg raw	0.5	Cs137	0.3 Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.3 Bq/kg raw
Sea robin	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	OR	Cs137	0.7 Bq/kg raw	± 0.1 Bq/kg raw	0.7	Cs137	0.2 Bq/kg raw
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.2 Bq/kg raw
Sea water A (surface)	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	OR	Cs137	0.004 Bq/L	± 0.0005 Bq/L	0.004	Cs137	0.0009 Bq/L
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L
Sea water A (lower)	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	OR	Cs137	0.004 Bq/L	± 0.0006 Bq/L	0.004	Cs137	0.001 Bq/L
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L
Sea water B (surface)	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	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
Sea water B (lower)	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	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
Sea water C (surface)	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	OR	Cs137	0.002 Bq/L	± 0.0005 Bq/L	0.002	Cs137	0.001 Bq/L
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L
Sea water C (lower)	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	OR	Cs137	0.003 Bq/L	± 0.0005 Bq/L	0.003	Cs137	0.0009 Bq/L
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L
Sea water D (surface)	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	OR	Cs137	0.005 Bq/L	± 0.0006 Bq/L	0.005	Cs137	0.001 Bq/L
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L
Sea water D (lower)	Off the coast of Fukushima Nuclear Power Plant1	Oct-22	OR	Cs137	0.003 Bq/L	± 0.0005 Bq/L	0.003	Cs137	0.0009 Bq/L
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L
Sea water (surface)	Tomiooka Port/ Fukushima Pref.	Oct-22	OR	Cs137	0.012 Bq/L	± 0.0007 Bq/L	0.012	Cs137	0.0010 Bq/L
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L
Rice paddy soil	Okuma, Futaba, Fukushima	Nov-22	CA	Cs137	6175.4 Bq/kg dry	± 94.9 Bq/kg dry	6341.7	Cs137	23.3 Bq/kg dry
				Cs134	166.3 Bq/kg dry	± 13.2 Bq/kg dry		Cs134	26.6 Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	CA	Cs137	195920.0 Bq/kg dry	± 238.5 Bq/kg dry	200818.4	Cs137	40.8 Bq/kg dry
				Cs134	4898.4 Bq/kg dry	± 28.6 Bq/kg dry		Cs134	42.5 Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	CA	Cs137	146820.0 Bq/kg dry	± 557.9 Bq/kg dry	150490.3	Cs137	98.1 Bq/kg dry
				Cs134	3670.3 Bq/kg dry	± 69.0 Bq/kg dry		Cs134	114.7 Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	CA	Cs137	98814.0 Bq/kg dry	± 391.6 Bq/kg dry	101371.5	Cs137	70.5 Bq/kg dry
				Cs134	2557.5 Bq/kg dry	± 48.4 Bq/kg dry		Cs134	79.3 Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	CA	Cs137	56065.0 Bq/kg dry	± 417.4 Bq/kg dry	57460.2	Cs137	79.7 Bq/kg dry
				Cs134	1395.2 Bq/kg dry	± 52.8 Bq/kg dry		Cs134	93.2 Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	CA	Cs137	55235.0 Bq/kg dry	± 333.1 Bq/kg dry	56619.5	Cs137	61.2 Bq/kg dry
				Cs134	1384.5 Bq/kg dry	± 41.2 Bq/kg dry		Cs134	67.5 Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	CA	Cs137	48322.0 Bq/kg dry	± 282.7 Bq/kg dry	49523.9	Cs137	50.5 Bq/kg dry
				Cs134	1201.9 Bq/kg dry	± 34.7 Bq/kg dry		Cs134	58.0 Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	CA	Cs137	46514.0 Bq/kg dry	± 263.7 Bq/kg dry	47710.0	Cs137	49.0 Bq/kg dry
				Cs134	1196.0 Bq/kg dry	± 32.6 Bq/kg dry		Cs134	53.6 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	Measuring instrument type	Measurement Result		Uncertainty	Total Amount of Cesium	Minimum Limit of Detection	
Soil	Okuma, Futaba, Fukushima	Dec-22	CA	Cs137	27146.0 Bq/kg dry	± 185.6 Bq/kg dry	27795.1	Cs137	33.9 Bq/kg dry
				Cs134	649.1 Bq/kg dry	± 23.0 Bq/kg dry		Cs134	44.9 Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	CA	Cs137	23629.0 Bq/kg dry	± 187.7 Bq/kg dry	24206.2	Cs137	38.7 Bq/kg dry
				Cs134	577.2 Bq/kg dry	± 23.4 Bq/kg dry		Cs134	39.8 Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	CA	Cs137	23164.0 Bq/kg dry	± 190.6 Bq/kg dry	23741.5	Cs137	35.0 Bq/kg dry
				Cs134	577.5 Bq/kg dry	± 23.9 Bq/kg dry		Cs134	46.1 Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	CA	Cs137	19013.0 Bq/kg dry	± 185.9 Bq/kg dry	19476.8	Cs137	38.2 Bq/kg dry
				Cs134	463.8 Bq/kg dry	± 23.1 Bq/kg dry		Cs134	44.4 Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	CA	Cs137	11256.0 Bq/kg dry	± 140.8 Bq/kg dry	11528.6	Cs137	27.8 Bq/kg dry
				Cs134	272.6 Bq/kg dry	± 17.6 Bq/kg dry		Cs134	31.0 Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	CA	Cs137	10722.0 Bq/kg dry	± 138.0 Bq/kg dry	10981.3	Cs137	27.1 Bq/kg dry
				Cs134	259.3 Bq/kg dry	± 18.3 Bq/kg dry		Cs134	34.0 Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	CA	Cs137	8649.7 Bq/kg dry	± 132.3 Bq/kg dry	8874.5	Cs137	28.7 Bq/kg dry
				Cs134	224.8 Bq/kg dry	± 16.9 Bq/kg dry		Cs134	30.1 Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	CA	Cs137	8586.6 Bq/kg dry	± 132.6 Bq/kg dry	8792.9	Cs137	29.0 Bq/kg dry
				Cs134	206.3 Bq/kg dry	± 17.2 Bq/kg dry		Cs134	32.6 Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	CA	Cs137	4245.3 Bq/kg dry	± 80.4 Bq/kg dry	4354.1	Cs137	19.1 Bq/kg dry
				Cs134	108.8 Bq/kg dry	± 11.3 Bq/kg dry		Cs134	26.3 Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	CA	Cs137	6809.0 Bq/kg dry	± 102.2 Bq/kg dry	6984.5	Cs137	20.5 Bq/kg dry
				Cs134	175.5 Bq/kg dry	± 14.1 Bq/kg dry		Cs134	30.5 Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	CA	Cs137	3676.2 Bq/kg dry	± 75.6 Bq/kg dry	3772.7	Cs137	19.4 Bq/kg dry
				Cs134	96.5 Bq/kg dry	± 10.4 Bq/kg dry		Cs134	21.2 Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	CA	Cs137	3299.7 Bq/kg dry	± 22.0 Bq/kg dry	3384.7	Cs137	5.1 Bq/kg dry
				Cs134	85.0 Bq/kg dry	± 3.0 Bq/kg dry		Cs134	5.7 Bq/kg dry
Soil	Okuma, Futaba, Fukushima	Dec-22	CA	Cs137	186.6 Bq/kg dry	± 4.1 Bq/kg dry	191.2	Cs137	2.4 Bq/kg dry
				Cs134	4.6 Bq/kg dry	± 0.9 Bq/kg dry		Cs134	2.3 Bq/kg dry
Wood ash (Wood-burning stove)	Sagae, Yamagata	Nov-22	CA	Cs137	305.9 Bq/kg dry	± 4.2 Bq/kg dry	313.7	Cs137	2.4 Bq/kg dry
				Cs134	7.8 Bq/kg dry	± 1.1 Bq/kg dry		Cs134	2.8 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.



★Beta-ray

Measuring instrument		Feature
Liquid Scintillation Counter		
Product of Hidex <b>HIDEX 300SLL</b>	Product of PerkinElmer Japan <b>Quantulus GCT 6220</b>	Equipment for measuring low-energy beta-ray emission nuclides
		Measuring nuclide Strontium90 Half-life 30 years Organic bound 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
River water	Takase River/ Kamikita, Aomori	May-22	T (free)	<b>0.34</b> Bq/L	± 0.13 Bq/L	0.12 Bq/L
Goldeye rockfish (head/bone)	Off the coast of Fukushima Nuclear Power Plant1	Aug-22	Sr90	<b>0.33</b> Bq/kg dry	± 0.14 Bq/kg dry	0.21 Bq/kg dry
Fox jacopever (head/bone)	Off the coast of Fukushima Nuclear Power Plant1	Aug-22	Sr90	Under Minimum Limit of Detection Bq/kg dry	± — Bq/kg dry	0.12 Bq/kg dry
Lake water A (lower)	Lake Kasumigaura/ Ibaraki	Oct-22	Sr90	<b>0.0006</b> Bq/L	± 0.0003 Bq/L	0.0005 Bq/L
Lake water B (surface)	Lake Kasumigaura/ Ibaraki	Oct-22	Sr90	<b>0.0011</b> Bq/L	± 0.0004 Bq/L	0.0005 Bq/L
Soil	Okuma, Futaba, Fukuhsima	Dec-22	Sr90	<b>11.74</b> Bq/kg dry	± 1.28 Bq/kg dry	1.83 Bq/kg dry
Soil	Okuma, Futaba, Fukuhsima	Dec-22	Sr90	<b>8.59</b> Bq/kg dry	± 1.09 Bq/kg dry	1.57 Bq/kg dry
Soil	Okuma, Futaba, Fukuhsima	Dec-22	Sr90	<b>7.87</b> Bq/kg dry	± 1.17 Bq/kg dry	1.70 Bq/kg dry
Soil	Okuma, Futaba, Fukuhsima	Dec-22	Sr90	<b>6.37</b> Bq/kg dry	± 1.13 Bq/kg dry	1.66 Bq/kg dry
Soil	Okuma, Futaba, Fukuhsima	Dec-22	Sr90	<b>2.66</b> Bq/kg dry	± 1.01 Bq/kg dry	1.51 Bq/kg dry
Lake bottom soil 0-5cm	Lake Hibara/ Fukushima	Oct-22	Sr90	<b>3.34</b> Bq/kg dry	± 1.22 Bq/L	1.81 Bq/kg dry

# Measurement results of 16 items by germanium semiconductor detector

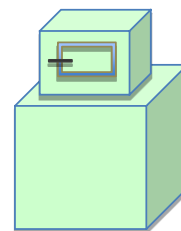
Dr.Tetsuji Imanaka, Institute of Multiple Nuclear Science, Kyoto University

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 more
- Product of ORTEC(OR),USA GMX25-70 Relative efficiency 35%

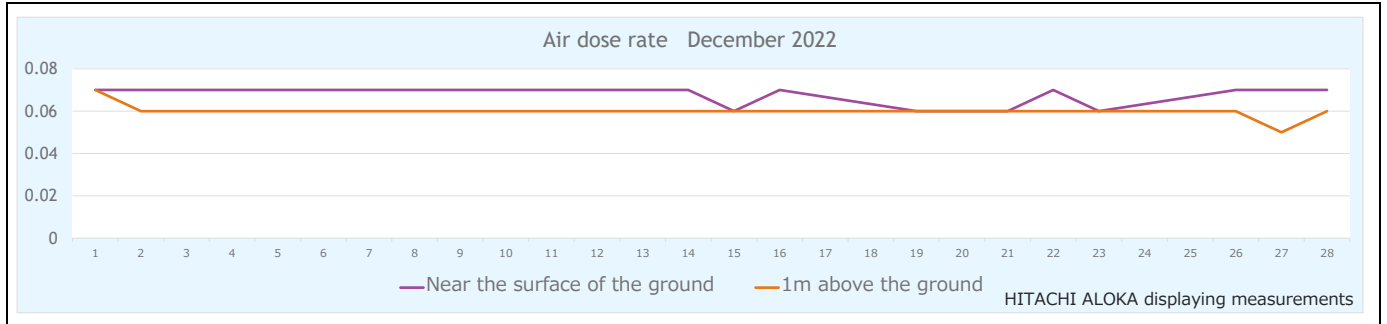


(Bq/kg raw:Weight of raw sample Bq/kg dry:Weight of dried sample)

Samples	Sampling Point	Sampling Month	Measuring instrument type	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection	
Rice	Minamiaizu, Minamiaizu, Fukushima	Oct-21	CA	Cs137	0.06 Bq/kg raw	± 0.02 Bq/kg raw	0.06	Cs137	Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw	
Eggplant	Iitate, Soma, Fukushima	Sep-22	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	
Green pepper	Namie, Futaba, Fukushima	Sep-22	CA	Cs137	0.12 Bq/kg raw	± 0.03 Bq/kg raw	0.12	Cs137	Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw	
Cabbage	Tamura, Koriyama, Fukushima	Sep-22	CA	Cs137	5.2 Bq/kg raw	± 1.0 Bq/kg raw	5.25	Cs137	Bq/kg raw	
				Cs134	0.05 Bq/kg raw	± 0.02 Bq/kg raw		Cs134	Bq/kg raw	
Onion	Namie, Futaba, Fukushima	Sep-22	CA	Cs137	0.17 Bq/kg raw	± 0.02 Bq/kg raw	0.17	Cs137	Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw	
Green pepper shishito	Iitate, Soma, Fukushima	Sep-22	CA	Cs137	0.49 Bq/kg raw	± 0.04 Bq/kg raw	0.49	Cs137	Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw	
Ginger	Nishida, Koriyama, Fukushima	Sep-22	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	
Qing-geng-cai	Namie, Futaba, Fukushima	Sep-22	CA	Cs137	7.0 Bq/kg raw	± 0.09 Bq/kg raw	7.1	Cs137	Bq/kg raw	
				Cs134	0.1 Bq/kg raw	± 0.03 Bq/kg raw		Cs134	Bq/kg raw	
Apple	Date, Date, Fukushima	Oct-22	CA	Cs137	0.4 Bq/kg raw	± 0.06 Bq/kg raw	0.4	Cs137	Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw	
Apple	Kitashiobara, Yama, Fukushima	Oct-22	OR	Cs137	0.06 Bq/kg raw	± 0.03 Bq/kg raw	0.06	Cs137	Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw	
Water melon	Iitate, Soma, Fukushima	Sep-22	CA	Cs137	0.68 Bq/kg raw	± 0.04 Bq/kg raw	0.68	Cs137	Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw	
Grape	Yanagawa, Date, Fukushima	Oct-22	OR	Cs137	0.26 Bq/kg raw	± 0.04 Bq/kg raw	0.26	Cs137	Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw	
Japanese pear	Fukushima, Fukushima Pref.	Oct-22	CA	Cs137	3.8 Bq/kg raw	± 0.1 Bq/kg raw	3.8	Cs137	Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw	
Persimmon	Yanagawa, Date, Fukushima	Oct-22	OR	Cs137	0.29 Bq/kg raw	± 0.05 Bq/kg raw	0.29	Cs137	Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw	
Shitake mushroom log grown (Lentinula edodes)	Nakata, Koriyama, Fukushima	Sep-22	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	
Shitake mushroom grown in bacteria-bed (Lentinula edodes)	Asakawa, Ishikawa, Fukushima	Oct-22	CA	Cs137	1.8 Bq/kg raw	± 0.08 Bq/kg raw	1.8	Cs137	Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	Bq/kg raw	

# Air dose rate December 2022

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.		



	測定器	HITACHI ALOKA	HORIBA Radi	HITACHI ALOKA	HORIBA Radi
Measuring Date	Weather	Near the surface of the ground( $\mu\text{Sv}/\text{h}$ )		1m above the ground( $\mu\text{Sv}/\text{h}$ )	
2022/12/1		0.07	0.088	0.07	0.066
2022/12/2		0.07	0.071	0.06	0.061
Measuring Date	Weather	Near the surface of the ground( $\mu\text{Sv}/\text{h}$ )		1m above the ground( $\mu\text{Sv}/\text{h}$ )	
2022/12/5		0.07	0.072	0.06	0.065
2022/12/6		0.07	0.07	0.06	0.067
2022/12/7		0.07	0.07	0.06	0.062
2022/12/8		0.07	0.067	0.06	0.062
2022/12/9		0.07	0.084	0.06	0.059
Measuring Date	Weather	Near the surface of the ground( $\mu\text{Sv}/\text{h}$ )		1m above the ground( $\mu\text{Sv}/\text{h}$ )	
2022/12/12		0.07	0.07	0.06	0.067
2022/12/13		0.07	0.075	0.06	0.062
2022/12/14		0.07	0.071	0.06	0.068
2022/12/15		0.06	0.069	0.06	0.066
2022/12/16		0.07	0.073	0.06	0.066
Measuring Date	Weather	Near the surface of the ground( $\mu\text{Sv}/\text{h}$ )		1m above the ground( $\mu\text{Sv}/\text{h}$ )	
2022/12/19		0.06	0.069	0.06	0.062
2022/12/20		0.06	0.068	0.06	0.061
2022/12/21		0.06	0.068	0.06	0.065
2022/12/22		0.07	0.075	0.06	0.068
2022/12/23		0.06	0.065	0.06	0.062
Measuring Date	Weather	Near the surface of the ground( $\mu\text{Sv}/\text{h}$ )		1m above the ground( $\mu\text{Sv}/\text{h}$ )	
2022/12/26		0.07	0.073	0.06	0.067
2022/12/27		0.07	0.062	0.05	0.057
2022/12/28		0.07	0.073	0.06	0.053