



Radiation Measurement Results of 108 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				
			Cs137	Cs134	±	—		±	—	Cs137	Cs134	Under Minimum Limit of Detection
Potato	Funehiki, Tamura, Fukushima	Jan-23	Cs137	—	Bq/kg生	±	—	Bq/kg生	Under Minimum Limit of Detection	Cs137	2.0	Bq/kg raw
			Cs134	—	Bq/kg生	±	—	Bq/kg生		Cs134	1.8	Bq/kg raw
Taro	Tamakawa, Ishikawa, Fukushima	Feb-23	Cs137	—	Bq/kg生	±	—	Bq/kg生	Under Minimum Limit of Detection	Cs137	2.2	Bq/kg raw
			Cs134	—	Bq/kg生	±	—	Bq/kg生		Cs134	2.0	Bq/kg raw
Jerusalem artichoke	Tamakawa, Ishikawa, Fukushima	Feb-23	Cs137	—	Bq/kg生	±	—	Bq/kg生	Under Minimum Limit of Detection	Cs137	2.2	Bq/kg raw
			Cs134	—	Bq/kg生	±	—	Bq/kg生		Cs134	2.0	Bq/kg raw
Sweet potato	Yabuki, Nishishirakawa, Fukushima	Jan-23	Cs137	—	Bq/kg生	±	—	Bq/kg生	Under Minimum Limit of Detection	Cs137	1.4	Bq/kg raw
			Cs134	—	Bq/kg生	±	—	Bq/kg生		Cs134	1.2	Bq/kg raw
Sweet potato	Kamata, Fukushima, Fukushima Pref.	Feb-23	Cs137	—	Bq/kg生	±	—	Bq/kg生	Under Minimum Limit of Detection	Cs137	2.3	Bq/kg raw
			Cs134	—	Bq/kg生	±	—	Bq/kg生		Cs134	2.1	Bq/kg raw
Carrot	Koriyama, Fukushima	Feb-23	Cs137	—	Bq/kg生	±	—	Bq/kg生	Under Minimum Limit of Detection	Cs137	2.0	Bq/kg raw
			Cs134	—	Bq/kg生	±	—	Bq/kg生		Cs134	1.9	Bq/kg raw
Carrot	Shirakawa, Fukushima	Jan-23	Cs137	—	Bq/kg生	±	—	Bq/kg生	Under Minimum Limit of Detection	Cs137	2.1	Bq/kg raw
			Cs134	—	Bq/kg生	±	—	Bq/kg生		Cs134	1.9	Bq/kg raw
Carrot	Matsukawa, Fukushima, Fukushima Pref.	Feb-23	Cs137	—	Bq/kg生	±	—	Bq/kg生	Under Minimum Limit of Detection	Cs137	2.9	Bq/kg raw
			Cs134	—	Bq/kg生	±	—	Bq/kg生		Cs134	2.6	Bq/kg raw
Onion	Kawauchi, Futaba, Fukushima	Feb-23	Cs137	—	Bq/kg生	±	—	Bq/kg生	Under Minimum Limit of Detection	Cs137	1.6	Bq/kg raw
			Cs134	—	Bq/kg生	±	—	Bq/kg生		Cs134	1.5	Bq/kg raw
Spring onion	Iwaki city	Feb-23	Cs137	—	Bq/kg生	±	—	Bq/kg生	Under Minimum Limit of Detection	Cs137	3.8	Bq/kg raw
			Cs134	—	Bq/kg生	±	—	Bq/kg生		Cs134	3.5	Bq/kg raw
Japanese white radish	Kawauchi, Futaba, Fukushima	Feb-23	Cs137	—	Bq/kg生	±	—	Bq/kg生	Under Minimum Limit of Detection	Cs137	1.6	Bq/kg raw
			Cs134	—	Bq/kg生	±	—	Bq/kg生		Cs134	1.5	Bq/kg raw
Japanese white radish	Iwaki city	Feb-23	Cs137	—	Bq/kg生	±	—	Bq/kg生	Under Minimum Limit of Detection	Cs137	1.8	Bq/kg raw
			Cs134	—	Bq/kg生	±	—	Bq/kg生		Cs134	1.6	Bq/kg raw
Turnip	Tamakawa, Ishikawa, Fukushima	Feb-23	Cs137	—	Bq/kg生	±	—	Bq/kg生	Under Minimum Limit of Detection	Cs137	2.2	Bq/kg raw
			Cs134	—	Bq/kg生	±	—	Bq/kg生		Cs134	1.8	Bq/kg raw
Chinese cabbage	Okuma, Futaba, Fukushima	Jan-23	Cs137	—	Bq/kg生	±	—	Bq/kg生	Under Minimum Limit of Detection	Cs137	1.7	Bq/kg raw
			Cs134	—	Bq/kg生	±	—	Bq/kg生		Cs134	1.6	Bq/kg raw
Chinese cabbage	Ibaraki Pref.	Feb-23	Cs137	—	Bq/kg生	±	—	Bq/kg生	Under Minimum Limit of Detection	Cs137	1.6	Bq/kg raw
			Cs134	—	Bq/kg生	±	—	Bq/kg生		Cs134	1.5	Bq/kg raw
Spinach	Ryouzen, Date, Fukushima	Feb-23	Cs137	—	Bq/kg生	±	—	Bq/kg生	Under Minimum Limit of Detection	Cs137	3.5	Bq/kg raw
			Cs134	—	Bq/kg生	±	—	Bq/kg生		Cs134	3.2	Bq/kg raw
Garland chrysanthemum	Date, Fukushima	Feb-23	Cs137	—	Bq/kg生	±	—	Bq/kg生	Under Minimum Limit of Detection	Cs137	2.0	Bq/kg raw
			Cs134	—	Bq/kg生	±	—	Bq/kg生		Cs134	1.6	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	
Broccoli	Tatsugoyama, Fukushima, Fukushima Pref.	Feb-23	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	3.3 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	2.6 Bq/kg raw
Broccoli	Fukushima Pref.	Feb-23	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	2.0 Bq/kg raw
Canola flower	Iwaki City	Feb-23	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	1.6 Bq/kg raw
leaf lettuce	Motomiya, Fukushima	Jan-23	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.1 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	1.7 Bq/kg raw
Green onion	Iwaki City	Feb-23	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
Green onion	Fukushima, Fukushima Pref.	Feb-23	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
leaf garlic	Iwaki City	Feb-23	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
Soybeans	Funehiki, Tamura, Fukushima	Nov-22	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.8 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	1.7 Bq/kg raw
Soybeans	Tamakawa, Ishikawa, Fukushima	Feb-23	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.3 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	1.1 Bq/kg raw
Roasted soybeans	Samegawa, Higashishirakawa, Fukushima	Jan-23	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
Green beans	Katsurao, Futaba, Fukushoma	Feb-23	Cs137	5.7 Bq/kg raw	± 1.5	Bq/kg raw	5.7	Cs137	1.3 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	1.1 Bq/kg raw
Apple	Fukushima, Fukushima Pref.	Feb-23	Cs137	— Bq/kg raw	±	— Bq/kg raw	検出下限値以下	Cs137	2.2 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	2.0 Bq/kg raw
Sarunashi	Tamakawa, Ishikawa, Fukushima	Feb-23	Cs137	— Bq/kg raw	±	— Bq/kg raw	検出下限値以下	Cs137	1.9 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	1.6 Bq/kg raw
Dried green seaweed	Matsukawaura, Soma, Fukushima	Feb-23	Cs137	— Bq/kg raw	±	— Bq/kg raw	検出下限値以下	Cs137	3.5 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	2.9 Bq/kg raw
Shitake mushroom grown in bacteria-bed (Lentinula edodes)	Hobara, Date, Fukushima	Feb-23	Cs137	3.4 Bq/kg raw	± 1.2	Bq/kg raw	3.4	Cs137	1.5 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	1.2 Bq/kg raw
Nameko mushroom (Pholiota nameko)	Koriyama, Fukushima	Feb-23	Cs137	— Bq/kg raw	±	— Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.1 Bq/kg raw
			Cs134	— Bq/kg raw	±	— Bq/kg raw		Cs134	1.0 Bq/kg raw
Wood ear mushroom udon	Kagamiishi, Iwase, Fukushima	Jan-23	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	1.9 Bq/kg raw
Soil (in the park)	Yagawaseizumimachi Park, Tairayagawase, Iwaki	Jan-23	Cs137	2140.0 Bq/kg dry	± 21.8	Bq/kg dry	2190.8	Cs137	3.9 Bq/kg dry
			Cs134	50.8 Bq/kg dry	± 5.9	Bq/kg dry		Cs134	3.9 Bq/kg dry
Soil(in the park) under the tree	Yagawaseizumimachi Park, Tairayagawase, Iwaki	Jan-23	Cs137	1760.0 Bq/kg dry	± 177.0	Bq/kg dry	1790.2	Cs137	1.8 Bq/kg dry
			Cs134	30.2 Bq/kg dry	± 3.5	Bq/kg dry		Cs134	1.7 Bq/kg dry
Soil (in the park)	Yagawaseizumimachi Park, Tairayagawase, Iwaki	Jan-23	Cs137	1730.0 Bq/kg dry	± 175.0	Bq/kg dry	1778.1	Cs137	2.2 Bq/kg dry
			Cs134	48.1 Bq/kg dry	± 5.3	Bq/kg dry		Cs134	2.2 Bq/kg dry
Soil (in the park)	Yagawaseizumimachi Park, Tairayagawase, Iwaki	Jan-23	Cs137	941.0 Bq/kg dry	± 95.7	Bq/kg dry	968.7	Cs137	1.6 Bq/kg dry
			Cs134	27.7 Bq/kg dry	± 3.1	Bq/kg dry		Cs134	1.7 Bq/kg dry
Soil (in the park)	Yagawaseizumimachi Park, Tairayagawase, Iwaki	Jan-23	Cs137	825.0 Bq/kg dry	± 83.9	Bq/kg dry	842.5	Cs137	1.6 Bq/kg dry
			Cs134	17.5 Bq/kg dry	± 2.1	Bq/kg dry		Cs134	1.9 Bq/kg dry
Soil (in the park)	Yagawaseizumimachi Park, Tairayagawase, Iwaki	Jan-23	Cs137	141.0 Bq/kg dry	± 15.5	Bq/kg dry	141.0	Cs137	3.6 Bq/kg dry
			Cs134	— Bq/kg dry	±	— Bq/kg dry		Cs134	3.2 Bq/kg dry
Soil (ground)	KuseharaPark, Tairanakayama, Iwaki	Jan-23	Cs137	1560.0 Bq/kg dry	± 158.0	Bq/kg dry	1591.2	Cs137	2.0 Bq/kg dry
			Cs134	31.2 Bq/kg dry	± 3.6	Bq/kg dry		Cs134	2.2 Bq/kg dry

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

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

★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 (ground)	Kusehara Park. Tairanakayama, Iwaki	Jan-23	Cs137	1040.0 Bq/kg dry	± 107.0 Bq/kg dry	1066.1	Cs137	3.0 Bq/kg dry		
			Cs134	26.1 Bq/kg dry	± 3.3 Bq/kg dry		Cs134	3.5 Bq/kg dry		
Soil (ground)	Kusehara Park. Tairanakayama, Iwaki	Jan-23	Cs137	966.0 Bq/kg dry	± 98.4 Bq/kg dry	995.1	Cs137	1.8 Bq/kg dry		
			Cs134	29.1 Bq/kg dry	± 3.3 Bq/kg dry		Cs134	1.9 Bq/kg dry		
Soil (ground)	Kusehara Park. Tairanakayama, Iwaki	Jan-23	Cs137	266.0 Bq/kg dry	± 27.3 Bq/kg dry	274.1	Cs137	1.1 Bq/kg dry		
			Cs134	8.1 Bq/kg dry	± 1.1 Bq/kg dry		Cs134	1.3 Bq/kg dry		
Soil (ground)	Kusehara Park. Tairanakayama, Iwaki	Jan-23	Cs137	247.0 Bq/kg dry	± 25.6 Bq/kg dry	253.4	Cs137	1.4 Bq/kg dry		
			Cs134	6.4 Bq/kg dry	± 1.0 Bq/kg dry		Cs134	1.7 Bq/kg dry		
Soil (ground)	Kusehara Park. Tairanakayama, Iwaki	Jan-23	Cs137	86.2 Bq/kg dry	± 9.7 Bq/kg dry	86.2	Cs137	3.2 Bq/kg dry		
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	2.9 Bq/kg dry		
Soil (in the park)	Kusehara Park. Tairanakayama, Iwaki	Jan-23	Cs137	4470.0 Bq/kg dry	± 454.0 Bq/kg dry	4592.0	Cs137	5.5 Bq/kg dry		
			Cs134	122.0 Bq/kg dry	± 13.4 Bq/kg dry		Cs134	4.8 Bq/kg dry		
Soil (in the park)	Kusehara Park. Tairanakayama, Iwaki	Jan-23	Cs137	1420.0 Bq/kg dry	± 144.0 Bq/kg dry	1451.7	Cs137	1.9 Bq/kg dry		
			Cs134	31.7 Bq/kg dry	± 3.6 Bq/kg dry		Cs134	1.9 Bq/kg dry		
Soil (in the park)	Kusehara Park. Tairanakayama, Iwaki	Jan-23	Cs137	936.0 Bq/kg dry	± 96.3 Bq/kg dry	955.5	Cs137	3.0 Bq/kg dry		
			Cs134	19.5 Bq/kg dry	± 2.7 Bq/kg dry		Cs134	3.3 Bq/kg dry		
Soil(in the park) under the playground equipment	Kusehara Park. Tairanakayama, Iwaki	Jan-23	Cs137	394.0 Bq/kg dry	± 40.3 Bq/kg dry	404.0	Cs137	1.2 Bq/kg dry		
			Cs134	10.0 Bq/kg dry	± 1.3 Bq/kg dry		Cs134	1.4 Bq/kg dry		
Soil (in the park)	Kusehara Park. Tairanakayama, Iwaki	Jan-23	Cs137	372.0 Bq/kg dry	± 38.2 Bq/kg dry	378.7	Cs137	1.5 Bq/kg dry		
			Cs134	6.7 Bq/kg dry	± 1.1 Bq/kg dry		Cs134	1.8 Bq/kg dry		
Soil(in the park) Sandbox	Kusehara Park. Tairanakayama, Iwaki	Jan-23	Cs137	83.7 Bq/kg dry	± 9.3 Bq/kg dry	83.7	Cs137	2.6 Bq/kg dry		
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	2.3 Bq/kg dry		
Soil (in the park)	Kusehara Park. Tairanakayama, Iwaki	Jan-23	Cs137	64.5 Bq/kg dry	± 7.4 Bq/kg dry	64.5	Cs137	2.8 Bq/kg dry		
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	3.3 Bq/kg dry		
Soil(in the park) Shrubbery	Kusehara Park. Tairanakayama, Iwaki	Jan-23	Cs137	41.7 Bq/kg dry	± 4.8 Bq/kg dry	41.7	Cs137	1.9 Bq/kg dry		
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	2.3 Bq/kg dry		
Soil(in the park) under the slide	Kusehara Park. Tairanakayama, Iwaki	Jan-23	Cs137	3.5 Bq/kg dry	± 0.5 Bq/kg dry	3.5	Cs137	1.0 Bq/kg dry		
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	1.3 Bq/kg dry		
Soil(in the park) under the tree	Satogaokaicchome daini Park 1. Satogaoka, Iwaki	Jan-23	Cs137	809.0 Bq/kg dry	± 82.0 Bq/kg dry	827.6	Cs137	1.4 Bq/kg dry		
			Cs134	18.6 Bq/kg dry	± 2.2 Bq/kg dry		Cs134	1.5 Bq/kg dry		
Soil (in the park)	Satogaokaicchome daini Park 1. Satogaoka, Iwaki	Jan-23	Cs137	512.0 Bq/kg dry	± 52.4 Bq/kg dry	524.2	Cs137	1.4 Bq/kg dry		
			Cs134	12.2 Bq/kg dry	± 1.6 Bq/kg dry		Cs134	1.6 Bq/kg dry		
Soil (in the park)	Satogaokaicchome daini Park 1. Satogaoka, Iwaki	Jan-23	Cs137	447.0 Bq/kg dry	± 46.6 Bq/kg dry	458.1	Cs137	3.0 Bq/kg dry		
			Cs134	11.1 Bq/kg dry	± 2.0 Bq/kg dry		Cs134	3.6 Bq/kg dry		
Soil (in the park)	Satogaokaicchome daini Park 1. Satogaoka, Iwaki	Jan-23	Cs137	351.0 Bq/kg dry	± 36.0 Bq/kg dry	359.7	Cs137	1.5 Bq/kg dry		
			Cs134	8.7 Bq/kg dry	± 1.3 Bq/kg dry		Cs134	1.7 Bq/kg dry		
Soil(in the park) under the slide	Satogaokaicchome daini Park 1. Satogaoka, Iwaki	Jan-23	Cs137	326.0 Bq/kg dry	± 34.1 Bq/kg dry	334.9	Cs137	2.1 Bq/kg dry		
			Cs134	8.9 Bq/kg dry	± 1.5 Bq/kg dry		Cs134	2.4 Bq/kg dry		
Soil(in the park)	Satogaokaicchome daini Park 1. Satogaoka, Iwaki	Jan-23	Cs137	309.0 Bq/kg dry	± 32.6 Bq/kg dry	316.4	Cs137	2.4 Bq/kg dry		
			Cs134	7.4 Bq/kg dry	± 1.4 Bq/kg dry		Cs134	2.8 Bq/kg dry		
Soil(in the park) under the swing	Satogaokaicchome daini Park 1. Satogaoka, Iwaki	Jan-23	Cs137	13.0 Bq/kg dry	± 1.6 Bq/kg dry	13.0	Cs137	1.4 Bq/kg dry		
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	1.6 Bq/kg dry		
Soil (in the park)	Satogaokaicchome daini Park 1. Satogaoka, Iwaki	Jan-23	Cs137	9.8 Bq/kg dry	± 1.5 Bq/kg dry	9.8	Cs137	2.0 Bq/kg dry		
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	2.6 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.



★Gamma-ray

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	
Rice	Otama, Adachi, Fukushima	Oct-22	OR	Cs137	0.29 Bq/kg raw	± 0.03 Bq/kg raw	0.29	Cs137	0.05 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.06 Bq/kg raw	
Rice	Hirata, Ishikawa, Fukushima	Oct-22	CA	Cs137	0.05 Bq/kg raw	± 0.01 Bq/kg raw	0.05	Cs137	0.03 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.03 Bq/kg raw	
Baked sweet potato	Ibaraki Pref.	Feb-23	OR	Cs137	0.5 Bq/kg raw	± 0.06 Bq/kg raw	0.5	Cs137	0.1 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.1 Bq/kg raw	
Baked sweet potato	Chiba Pref.	Feb-23	OR	Cs137	3.1 Bq/kg raw	± 0.1 Bq/kg raw	0.2	Cs137	0.2 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.3 Bq/kg raw	
Boiled Japanese White radish	Ogawa, Iwaki	Feb-23	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	
Boiled Japanese white radish (leaves)	Ogawa, Iwaki	Feb-23	CA	Cs137	0.12 Bq/kg raw	± 0.05 Bq/kg raw	0.12	Cs137	0.1 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.1 Bq/kg raw	
Broccoli	Fukushima Pref.	Jan-23	CA	Cs137	2.6 Bq/kg raw	± 0.1 Bq/kg raw	2.6	Cs137	0.1 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.1 Bq/kg raw	
Dashi shavings of dried bonito	Japan (production)	Feb-23	OR	Cs137	0.27 Bq/kg raw	± 0.05 Bq/kg raw	0.27	Cs137	0.09 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.1 Bq/kg raw	
Red sea bream	Haragama Port/ Fukushima	Dec-22	CA	Cs137	0.3 Bq/kg raw	± 0.1 Bq/kg raw	0.3	Cs137	0.2 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.2 Bq/kg raw	
Cutlassfish	Haragama Port/ Fukushima	Dec-22	OR	Cs137	0.5 Bq/kg raw	± 0.09 Bq/kg raw	0.5	Cs137	0.1 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.2 Bq/kg raw	
John Dory	Hisanohama Port/ Iwaki City	Dec-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		Cs134	0.1 Bq/kg raw	
Flounder	Hisanohama Port/ Iwaki City	Dec-22	CA	Cs137	0.4 Bq/kg raw	± 0.1 Bq/kg raw	0.4	Cs137	0.1 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.1 Bq/kg raw	
Stingray	Numanouchi Port/ Iwaki City	Feb-23	CA	Cs137	1.0 Bq/kg raw	± 0.05 Bq/kg raw	1.0	Cs137	0.1 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.1 Bq/kg raw	
Sardine	Onahama Port/ Iwaki City	Feb-23	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	
Squid	Hisanohama Port/ Iwaki City	Feb-23	OR	Cs137	0.4 Bq/kg raw	± 0.06 Bq/kg raw	0.4	Cs137	0.1 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.1 Bq/kg raw	
Sea water (surface)	Soma Port/ Fukushima Pref.	Dec-22	OR	Cs137	0.004 Bq/L	± 0.0005 Bq/L	0.004	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Sea water (surface)	Murakami Coast/ Fukushima Pref.	Dec-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)	Ukedo port/ Fukushima Pref.	Dec-22	CA	Cs137	0.009 Bq/L	± 0.0004 Bq/L	0.009	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Sea water (surface)	Futaba Beach/ Fukushima Pref.	Dec-22	CA	Cs137	0.011 Bq/L	± 0.0007 Bq/L	0.011	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	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.

Samples	Sampling Point	Sampling Month	Measuring instrument type	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection	
Sea water (surface)	Kumagawa Estuary/ Fukushima Pref.	Dec-22	OR	Cs137	0.009 Bq/L	± 0.0006 Bq/L	0.009	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Sea water (surface)	Iwasawa Beach/ Fukushima Pref.	Dec-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 (surface)	Onahama Port/ Iwaki City	Dec-22	OR	Cs137	— Bq/L	± — Bq/L	Under Minimum Limit of Detection	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Suspended solids in seawater (surface)	Sun marina/ Iwaki City	Jun-22	OR	Cs137	0.008 Bq/L	± 0.001 Bq/L	0.008	Cs137	0.002 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.002 Bq/L	
Suspended solids in seawater (lower)	Off the coast of Fukushima Nuclear Power Plant1 Point B	Nov-22	CA	Cs137	0.016 Bq/L	± 0.001 Bq/L	0.016	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.002 Bq/L	
Suspended solids in seawater (surface)	Tomioka Port/ Fukushima Pref.	Nov-22	CA	Cs137	0.009 Bq/L	± 0.001 Bq/L	0.009	Cs137	0.002 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.002 Bq/L	
Suspended solids in seawater (surface)	Soma Port/ Fukushima Pref.	Dec-22	OR	Cs137	— Bq/L	± — Bq/L	Under Minimum Limit of Detection	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Suspended solids in seawater (surface)	Murakami Coast/ Fukushima Pref.	Dec-22	CA	Cs137	0.006 Bq/L	± 0.0008 Bq/L	0.006	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Suspended solids in seawater (surface)	Ukedo port/ Fukushima Pref.	Dec-22	CA	Cs137	— Bq/L	± — Bq/L	Under Minimum Limit of Detection	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Suspended solids in seawater (surface)	Futaba Beach/ Fukushima Pref.	Dec-22	CA	Cs137	0.005 Bq/L	± 0.0008 Bq/L	0.005	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Suspended solids in seawater (surface)	Kumagawa Estuary/ Fukushima Pref.	Dec-22	OR	Cs137	0.02 Bq/L	± 0.001 Bq/L	0.02	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Suspended solids in seawater (surface)	Iwasawa Beach/ Fukushima Pref.	Dec-22	CA	Cs137	0.005 Bq/L	± 0.0004 Bq/L	0.005	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Suspended solids in seawater (surface)	Onahama Port/ Iwaki City	Dec-22	OR	Cs137	— Bq/L	± — Bq/L	Under Minimum Limit of Detection	Cs137	0.001 Bq/L	
				Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Soil(in the park) under the tree	Shirado Park Taira-aiya, Iwaki	Jan-23	CA	Cs137	186.6 Bq/kg dry	± 4.5 Bq/kg dry	191.6	Cs137	2.6 Bq/kg dry	
				Cs134	5.0 Bq/kg dry	± 0.9 Bq/kg dry		Cs134	2.2 Bq/kg dry	
Beeswax	Miyagi Pref.	Jan-23	OR	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.7 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.8 Bq/kg raw	
Wood chips (Konara)	Miyakoji, Tamura, Fukushima	Dec-22	CA	Cs137	491.5 Bq/kg raw	± 8.3 Bq/kg raw	503.2	Cs137	2.1 Bq/kg raw	
				Cs134	11.7 Bq/kg raw	± 1.5 Bq/kg raw		Cs134	2.2 Bq/kg raw	

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

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

★Beta-ray

Measuring instrument		Feature
Liquid Scintillation Counter		
Product of Hidex HIDEX 300SL	Product of PerkinElmer Japan Quantulus GCT 622	Equipment for measuring low-energy beta-ray emission nuclides
		Measuring nuclide Strontium90 Half-life 30 years Organically bound 3H Half-life 12.3 years Free-water 3H 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	
White rockfish	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	Sr90	Under Minimum Limit of Detection	Bq/kg dry	± —	Bq/kg dry	0.14 Bq/kg dry
Red sea bream (head/bone)	Off the coast of Fukushima Nuclear Power Plant1	Nov-22	Sr90	Under Minimum Limit of Detection	Bq/kg dry	± —	Bq/kg dry	0.12 Bq/kg dry
Sea water (surface)	Off the coast of Fukushima Nuclear Power Plant1 Point A	Nov-22	Sr90	0.001	Bq/L	± 0.0003	Bq/L	0.0004 Bq/L
Sea water (lower)	Off the coast of Fukushima Nuclear Power Plant1 Point D	Nov-22	Sr90	0.0012	Bq/L	± 0.0003	Bq/L	0.0004 Bq/L
Sea water (surface)	Tomioka Port/ Fukushima Pref.	Nov-22	Sr90	0.0008	Bq/L	± 0.0003	Bq/L	0.0004 Bq/L
Sea water (surface)	Soma Port/ Fukushima Pref.	Dec-22	Sr90	0.0014	Bq/L	± 0.0003	Bq/L	0.0004 Bq/L
Sea water (surface)	Murakami Coast/ Fukushima Pref.	Dec-22	Sr90	0.0007	Bq/L	± 0.0003	Bq/L	0.0005 Bq/L
Sea water (surface)	Ukedo port/ Fukushima Pref.	Dec-22	Sr90	0.0006	Bq/L	± 0.0003	Bq/L	0.0004 Bq/L
Lake bottom soil 5-10cm	Lake Hibara/ Fukushima Pref.	Oct-22	Sr90	1.85	Bq/kg dry	± 1.09	Bq/kg dry	1.64 Bq/kg dry
Lake bottom soil 10-15cm	Lake Hibara/ Fukushima Pref.	Oct-22	Sr90	Under Minimum Limit of Detection	Bq/kg dry	± —	Bq/kg dry	1.60 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.

Measurement results of 16 items by germanium semiconductor detector

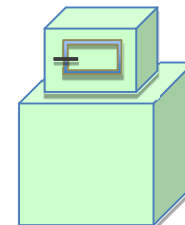
Dr.Tetsuji Imanaka, Institute of Multiple Nuclear Science, Kyoto University

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%

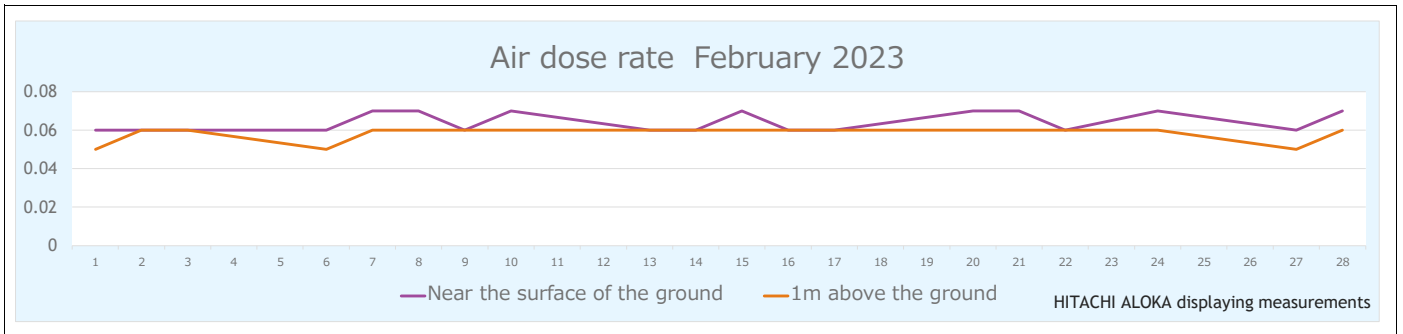


(Bq/kg raw:Weight of raw sample Bq/kg dry:Weight of dried sample)

Samples	Sampling Point	Sampling Month	Measuring instrument type	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection	
				Cs137	Cs134	±	±		Cs137	Cs134
Taro	Hirono, Futaba, Fukushima	Nov-22	CA	Cs137	1.2 Bq/kg raw	± 0.05 Bq/kg raw	1.2	Cs137	Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	Bq/kg raw
Yam	Tomioka, Futaba, Fukushima	Nov-22	CA	Cs137	2.1 Bq/kg raw	± 0.1 Bq/kg raw	2.1	Cs137	Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	Bq/kg raw
Chinese yam	Tamura, Koriyama, Fukushima	Dec-22	CA	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.06 Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	Bq/kg raw
Pumpkin	Namie, Futaba, Fukushima	Sep-22	OR	Cs137	3.7 Bq/kg raw	± 0.09 Bq/kg raw	3.7	Cs137	Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	Bq/kg raw
Chinese cabbage	Koriyama, Fukushima	Dec-22	OR	Cs137	2.7 Bq/kg raw	± 0.05 Bq/kg raw	2.75	Cs137	Bq/kg raw	
				Cs134	0.05 Bq/kg raw	± 0.02 Bq/kg raw			Cs134	Bq/kg raw
Japanese mustard spinach	Iitate, Soma, Fukushima	Dec-22	CA	Cs137	3.1 Bq/kg raw	± 0.05 Bq/kg raw	3.15	Cs137	Bq/kg raw	
				Cs134	0.05 Bq/kg raw	± 0.02 Bq/kg raw			Cs134	Bq/kg raw
Green onion	Koriyama, Fukushima	Dec-22	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	Bq/kg raw
Dried stems of taro	Yamatsuri, Higashishirakawa, Fukushima	Dec-22	OR	Cs137	1.6 Bq/kg raw	± 0.4 Bq/kg raw	1.6	Cs137	Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	Bq/kg raw
Beets	Iitate, Soma, Fukushima	Dec-22	CA	Cs137	2.0 Bq/kg raw	± 0.1 Bq/kg raw	2.0	Cs137	Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	Bq/kg raw
Ginkgo	Aizubange, Kawanuma, Fukushima	Dec-22	CA	Cs137	1.1 Bq/kg raw	± 0.07 Bq/kg raw	1.1	Cs137	Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	Bq/kg raw
Bunaharitake mushroom (wild) (Mycleptodonoides aitchisonii)	Hinoemata, Minamiaizu, Fukushima	Oct-22	CA	Cs137	6.4 Bq/kg raw	± 0.1 Bq/kg raw	6.5	Cs137	Bq/kg raw	
				Cs134	0.13 Bq/kg raw	± 0.04 Bq/kg raw			Cs134	Bq/kg raw
Naratake mushroom (wild) (Armillaria mellea)	Hinoemata, Minamiaizu, Fukushima	Oct-22	CA	Cs137	16.0 Bq/kg raw	± 0.2 Bq/kg raw	16.0	Cs137	Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	Bq/kg raw
Yuzu	Koriyama, Fukushima	Dec-22	OR	Cs137	1.2 Bq/kg raw	± 0.07 Bq/kg raw	1.2	Cs137	Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	Bq/kg raw
Yuzu	Naraha, Futaba, Fukushima	Nov-22	OR	Cs137	2.9 Bq/kg raw	± 0.1 Bq/kg raw	2.9	Cs137	Bq/kg raw	
				Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	Bq/kg raw
Persimmon	Okuma, Futaba, Fukuhsima	Nov-22	CA	Cs137	15.0 Bq/kg raw	± 0.3 Bq/kg raw	15.33	Cs137	Bq/kg raw	
				Cs134	0.33 Bq/kg raw	± 0.04 Bq/kg raw			Cs134	Bq/kg raw
Persimmon	Futaba, Futaba, Fukushima	Nov-22	OR	Cs137	47.0 Bq/kg raw	± 0.3 Bq/kg raw	48.1	Cs137	Bq/kg raw	
				Cs134	1.1 Bq/kg raw	± 0.07 Bq/kg raw			Cs134	Bq/kg raw

Air dose rate February 2023

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 instrument	HITACHI ALOKA	HORIBA Radi	HITACHI ALOKA	HORIBA Radi
Measuring Date	Weather	Near the surface of the ground($\mu\text{Sv/h}$)		1m above the ground($\mu\text{Sv/h}$)	
2023/2/1		0.06	0.068	0.05	0.061
2023/2/2		0.06	0.065	0.06	0.057
2023/2/3		0.06	0.069	0.06	0.058
Measuring Date	Weather	Near the surface of the ground($\mu\text{Sv/h}$)		1m above the ground($\mu\text{Sv/h}$)	
2023/2/6		0.06	0.062	0.05	0.06
2023/2/7		0.07	0.062	0.06	0.058
2023/2/8		0.07	0.061	0.06	0.052
2023/2/9		0.06	0.054	0.06	0.051
2023/2/10		0.07	0.063	0.06	0.059
Measuring Date	Weather	Near the surface of the ground($\mu\text{Sv/h}$)		1m above the ground($\mu\text{Sv/h}$)	
2023/2/13		0.06	0.072	0.06	0.069
2023/2/14		0.06	0.072	0.06	0.056
2023/2/15		0.07	0.063	0.06	0.055
2023/2/16		0.06	0.066	0.06	0.057
2023/2/17		0.06	0.066	0.06	0.065
Measuring Date	Weather	Near the surface of the ground($\mu\text{Sv/h}$)		1m above the ground($\mu\text{Sv/h}$)	
2023/2/20		0.07	0.061	0.06	0.059
2023/2/21		0.07	0.071	0.06	0.06
2023/2/22		0.06	0.064	0.06	0.062
2023/2/24		0.07	0.06	0.06	0.057
Measuring Date	Weather	Near the surface of the ground($\mu\text{Sv/h}$)		1m above the ground($\mu\text{Sv/h}$)	
2023/2/27		0.06	0.056	0.05	0.061
2023/2/28		0.07	0.057	0.06	0.057