



Radiation Measurement Results of 151 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
Germanium Semiconductor detector			
ORTEC GEM30-70 		· Radioactivity measurement series. Quantitative analysis based on "Gamma-ray spectrometry with germanium semiconductor detector." · Relative efficiency 35%	Food (Sample 2kg) Lower limit 0.04Bq/Kg Soil (Sample 1kg) Lower limit 0.06Bq/Kg Material (Sample 1kg) Lower limit 0.06Bq/Kg Water (Sample 20L Lower limit 0.001Bq/L

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

Measuring instrument: 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
Rice	Ryouzen, Date, Fukushima	Oct-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.7 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.6 Bq/kg raw
Rice	Marumori, Igu Miyagi	Oct-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.2 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.1 Bq/kg raw
Sweet potato	Izumigaoka, Iwaki	Nov-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.9 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.8 Bq/kg raw
Cabbage	Fukushima, Pref	Dec-20	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	3.1 Bq/kg raw
Cabbage	Marumori, Igu Miyagi	Dec-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.9 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	2.7 Bq/kg raw
Chinese cabbage	Marumori, Igu Miyagi	Dec-20	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
Spinach	Marumori, Igu Miyagi	Dec-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.9 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	2.6 Bq/kg raw
Welsh onion	Marumori, Igu Miyagi	Dec-20	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
Welsh onion	Naraha, Futaba, Fukushima	Dec-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.4 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	2.2 Bq/kg raw
Japanese white radish	Marumori, Igu Miyagi	Dec-20	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	1.8 Bq/kg raw
Japanese red radish	Iwaki city	Nov-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.1 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	2.0 Bq/kg raw
Turnip	Marumori, Igu Miyagi	Dec-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.9 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	2.7 Bq/kg raw
Turnip	Chiba Pref.	Dec-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.4 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	2.2 Bq/kg raw
Garland chrysanthemum	Fukushima, Pref	Dec-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.9 Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	2.7 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			
Asuparana (autumn poem)	Fukushima Pref.	Dec-20	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 pepper	Kochi Pref.	Dec-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	2.3	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.9	Bq/kg raw
Lotus root	Hanawa, Higashishirakawa, Fukushima	Dec-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	2.1	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.9	Bq/kg raw
Lotus root	Tsutiura, Ibaraki	Dec-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.9	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.7	Bq/kg raw
Shiitake mushroom(dry)	Date, Fukushima	Dec-20	Cs137	36.0	Bq/kg raw	±	6.6	36.0	Cs137	5.4	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	4.2	Bq/kg raw
Dried Shitake mushroom grown in bacteria-bed	Soma, Fukushima	Dec-20	Cs137	35.9	Bq/kg raw	±	13.6	35.9	Cs137	18.8	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	18.0	Bq/kg raw
Shitake mushroom grown in bacteria-bed	Hanawa, Higashishirakawa, Fukushima	Dec-20	Cs137	14.4	Bq/kg raw	±	3.4	14.4	Cs137	2.8	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	2.6	Bq/kg raw
Shitake mushroom grown in bacteria-bed	Hanawa, Higashishirakawa, Fukushima	Dec-20	Cs137	4.7	Bq/kg raw	±	2.0	4.7	Cs137	2.9	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	2.6	Bq/kg raw
Shitake mushroom grown in bacteria-bed	Tanakura, Higashishirakawa, Fukushima	Dec-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	2.2	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	2.0	Bq/kg raw
Shitake mushroom grown in bacteria-bed	Yamatsuri, Higashishirakawa, Fukushima	Dec-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.7	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.6	Bq/kg raw
Shitake mushroom grown in bacteria-bed	Shirakawa, Fukushima	Dec-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.9	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.7	Bq/kg raw
Shitake mushroom grown in bacteria-bed	Kawamata, Date, Fukushima	Dec-20	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
Nameko mushroom	Marumori, Igu Miyagi	Dec-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.7	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.6	Bq/kg raw
Oyster mushroom	Marumori, Igu Miyagi	Dec-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.5	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.1	Bq/kg raw
Chinese citron (pulp)	Gotengo, Onahama, Iwaki	Dec-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	2.0	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.9	Bq/kg raw
Chinese citron (peel)	Gotengo, Onahama, Iwaki	Dec-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	3.2	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	2.8	Bq/kg raw
Kiwi fruit	Marumori, Igu Miyagi	Dec-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	2.1	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	2.0	Bq/kg raw
Citron	Date, Fukushima	Dec-20	Cs137	17.5	Bq/kg raw	±	3.9	17.5	Cs137	2.1	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	2.0	Bq/kg raw
Citron	Hanawa, Higashishirakawa, Fukushima	Dec-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.8	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.6	Bq/kg raw
Citron	Marumori, Igu Miyagi	Dec-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	2.0	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.9	Bq/kg raw
Citron seed	Marumori, Igu Miyagi	Dec-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	11.0	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	8.9	Bq/kg raw
Ginkgo(pulp)	Fukushima Pref.	Nov-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	1.0	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	1.0	Bq/kg raw
Ginkgo(shell)	Fukushima Pref.	Nov-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	3.0	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	2.3	Bq/kg raw
Dried radish	Marumori, Igu Miyagi	Dec-20	Cs137	—	Bq/kg raw	±	—	Under Minimum Limit of Detection	Cs137	3.2	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—		Cs134	2.5	Bq/kg raw

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

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



★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			
Dried persimmon	Date, Fukushima	Dec-20	Cs137	1.5	Bq/kg raw	± 0.7	Bq/kg raw	1.5	Cs137	1.0	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	1.0	Bq/kg raw
Dried persimmon	Marumori, Igu Miyagi	Dec-20	Cs137	—	Bq/kg raw	± —	Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.1	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	1.6	Bq/kg raw
Dried persimmon	Nara Pref.	Nov-20	Cs137	—	Bq/kg raw	± —	Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.4	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	1.9	Bq/kg raw
Chestnut	China (production)	Oct-20	Cs137	—	Bq/kg raw	± —	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.4	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	1.2	Bq/kg raw
Houttuynia Cordata(dry)	Hanawa, Higashishirakawa, Fukushima	Dec-20	Cs137	25.7	Bq/kg raw	± 6.2	Bq/kg raw	25.7	Cs137	5.6	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	4.6	Bq/kg raw
Sakura tea	Ryouzen, Date, Fukushima	Dec-20	Cs137	—	Bq/kg raw	± —	Bq/kg raw	Under Minimum Limit of Detection	Cs137	9.0	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	7.0	Bq/kg raw
Boar (heart)	Enayabukura, Iwaki	Dec-20	Cs137	26.4	Bq/kg raw	± 3.9	Bq/kg raw	26.4	Cs137	1.9	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	1.4	Bq/kg raw
Boar (liver)	Enayabukura, Iwaki	Dec-20	Cs137	16.9	Bq/kg raw	± 3.6	4.2 Bq/kg raw	16.9	Cs137	1.6	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	1.5	Bq/kg raw
Boar (heart)	Onahama-shimokajiro, Iwaki	Dec-20	Cs137	4.0	Bq/kg raw	± 1.8	Bq/kg raw	4.0	Cs137	2.7	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	2.1	Bq/kg raw
Boar (liver)	Onahama-shimokajiro, Iwaki	Dec-20	Cs137	—	Bq/kg raw	± —	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.8	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	1.7	Bq/kg raw
Japanese sardine	OnahamaPort, Iwaki	Nov-20	Cs137	—	Bq/kg raw	± —	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.8	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	1.4	Bq/kg raw
Cellana nigrolineata	Tomioka port/ Fukushima	Nov-20	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	1.7	Bq/kg raw
Konjac	Gunma Pref.	Dec-20	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
Egg	Hobara, Date, Fukushima	Dec-20	Cs137	—	Bq/kg raw	± —	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.6	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	1.5	Bq/kg raw
Scallion	China (production)	Nov-20	Cs137	—	Bq/kg raw	± —	Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.2	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	1.8	Bq/kg raw
Sweet potato chips	Kagoshim Pref.	Nov-20	Cs137	—	Bq/kg raw	± —	Bq/kg raw	Under Minimum Limit of Detection	Cs137	3.6	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	3.4	Bq/kg raw
Moss	Marumori, Igu Miyagi	Dec-20	Cs137	1040.0	Bq/kg raw	± 230.0	Bq/kg raw	1040.0	Cs137	148.0	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	118.0	Bq/kg raw
Leaf of Cedar	Marumori, Igu Miyagi	Dec-20	Cs137	34.9	Bq/kg raw	± 8.6	Bq/kg raw	34.9	Cs137	9.0	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	7.0	Bq/kg raw
Cedar cones	Marumori, Igu Miyagi	Dec-20	Cs137	220.0	Bq/kg raw	± 58.0	Bq/kg raw	220.0	Cs137	60.9	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	50.8	Bq/kg raw
Fallen leaves	Inogashira Park Tokyo	Dec-20	Cs137	—	Bq/kg raw	± —	Bq/kg raw	Under Minimum Limit of Detection	Cs137	13.1	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	12.5	Bq/kg raw
Soil①	Okuma, Futaba, Fukushima	Nov-20	Cs137	93000.0	Bq/kg dry	± 18600.0	Bq/kg dry	97490.0	Cs137	72.3	Bq/kg dry
			Cs134	4490.0	Bq/kg dry	± 900.0	Bq/kg dry		Cs134	58.5	Bq/kg dry
Soil②	Okuma, Futaba, Fukushima	Nov-20	Cs137	16600.0	Bq/kg dry	± 3300.0	Bq/kg dry	17374.0	Cs137	10.8	Bq/kg dry
			Cs134	774.0	Bq/kg dry	± 155.0	Bq/kg dry		Cs134	8.5	Bq/kg dry
Soil①	Tairashimotakaku, Iwaki	Dec-20	Cs137	409.0	Bq/kg dry	± 47.2	Bq/kg dry	424.8	Cs137	5.0	Bq/kg dry
			Cs134	15.8	Bq/kg dry	± 2.7	Bq/kg dry		Cs134	5.5	Bq/kg dry
Soil②	Tairashimotakaku, Iwaki	Dec-20	Cs137	356.0	Bq/kg dry	± 38.5	Bq/kg dry	374.7	Cs137	5.6	Bq/kg dry
			Cs134	18.7	Bq/kg dry	± 2.9	Bq/kg dry		Cs134	6.6	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	
River sand①	River Takase, Namie, Futaba, Fukushima	Dec-20	Cs137	2470.0 Bq/kg dry	± 490.0 Bq/kg dry	2609.0	Cs137	6.2 Bq/kg dry	
			Cs134	139.0 Bq/kg dry	± 28.0 Bq/kg dry		Cs134	5.0 Bq/kg dry	
River sand②	River Takase, Namie, Futaba, Fukushima	Dec-20	Cs137	1790.0 Bq/kg dry	± 360.0 Bq/kg dry	1898.0	Cs137	6.3 Bq/kg dry	
			Cs134	108.0 Bq/kg dry	± 22.0 Bq/kg dry		Cs134	5.0 Bq/kg dry	
River sand 0-5cm	River Abukuma, Marumori, Igu Miyagi	Dec-20	Cs137	482.0 Bq/kg dry	± 52.2 Bq/kg dry	504.6	Cs137	4.8 Bq/kg dry	
			Cs134	22.6 Bq/kg dry	± 4.2 Bq/kg dry		Cs134	5.9 Bq/kg dry	
River sand 5-10cm	River Abukuma, Marumori, Igu Miyagi	Dec-20	Cs137	411.0 Bq/kg dry	± 44.3 Bq/kg dry	434.5	Cs137	4.9 Bq/kg dry	
			Cs134	23.5 Bq/kg dry	± 4.0 Bq/kg dry		Cs134	5.8 Bq/kg dry	
River sand Coast side	River Abukuma, Marumori, Igu Miyagi	Dec-20	Cs137	104.0 Bq/kg dry	± 11.8 Bq/kg dry	104.0	Cs137	5.2 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	6.6 Bq/kg dry	
Soil (in the park)	Izumi Marutoura Park, Takijiri, Izumi, Iwaki	Dec-20	Cs137	108.0 Bq/kg dry	± 14.9 Bq/kg dry	108.0	Cs137	2.3 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	2.9 Bq/kg dry	
Soil (in the park)	Izumi Marutoura Park, Takijiri, Izumi, Iwaki	Dec-20	Cs137	66.0 Bq/kg dry	± 7.5 Bq/kg dry	66.0	Cs137	2.7 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	4.4 Bq/kg dry	
Soil (in the park)	Izumi Marutoura Park, Takijiri, Izumi, Iwaki	Dec-20	Cs137	— Bq/kg dry	± — Bq/kg dry	Under Minimum Limit of Detection	Cs137	5.2 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	6.4 Bq/kg dry	
Soil (in the park)	Izumi Marutoura Park, Takijiri, Izumi, Iwaki	Dec-20	Cs137	— Bq/kg dry	± — Bq/kg dry	Under Minimum Limit of Detection	Cs137	2.2 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	2.3 Bq/kg dry	
Soil (in the park)	Izumi Marutoura Park, Takijiri, Izumi, Iwaki	Dec-20	Cs137	— Bq/kg dry	± — Bq/kg dry	Under Minimum Limit of Detection	Cs137	5.6 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	5.3 Bq/kg dry	
Soil (in the park) under the slide	Izumi Marutoura Park, Takijiri, Izumi, Iwaki	Dec-20	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	2.4 Bq/kg dry	
Soil (in the park)	Izumi Marutoura Park, Takijiri, Izumi, Iwaki	Dec-20	Cs137	— Bq/kg dry	± — Bq/kg dry	Under Minimum Limit of Detection	Cs137	4.1 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	4.2 Bq/kg dry	
Soil (in the park)	Izumi Marutoura Park, Takijiri, Izumi, Iwaki	Dec-20	Cs137	— Bq/kg dry	± — Bq/kg dry	Under Minimum Limit of Detection	Cs137	3.9 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	4.9 Bq/kg dry	
Soil (in the park)	Izumi Marutoura Park, Takijiri, Izumi, Iwaki	Dec-20	Cs137	— Bq/kg dry	± — Bq/kg dry	Under Minimum Limit of Detection	Cs137	5.0 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	5.4 Bq/kg dry	
Soil (in the park) under the Swing	Izumi Marutoura Park, Takijiri, Izumi, Iwaki	Dec-20	Cs137	— Bq/kg dry	± — Bq/kg dry	Under Minimum Limit of Detection	Cs137	4.3 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	5.3 Bq/kg dry	
Soil (in the park)	Izumigaoka-higashi Children's Park, 1Izumigaoka, Iwaki	Dec-20	Cs137	3640.0 Bq/kg dry	± 397.0 Bq/kg dry	3804.0	Cs137	14.2 Bq/kg dry	
			Cs134	164.0 Bq/kg dry	± 26.7 Bq/kg dry		Cs134	16.5 Bq/kg dry	
Soil (in the park)	Izumigaoka-higashi Children's Park, 1 Izumigaoka, Iwaki	Dec-20	Cs137	1980.0 Bq/kg dry	± 218.0 Bq/kg dry	2082.0	Cs137	10.4 Bq/kg dry	
			Cs134	102.0 Bq/kg dry	± 17.1 Bq/kg dry		Cs134	12.5 Bq/kg dry	
Soil (in the park) under the Swing	Izumigaoka-higashi Children's Park, 1 Izumigaoka, Iwaki	Dec-20	Cs137	1790.0 Bq/kg dry	± 19.9 Bq/kg dry	1800.8	Cs137	5.0 Bq/kg dry	
			Cs134	10.8 Bq/kg dry	± 2.6 Bq/kg dry		Cs134	6.4 Bq/kg dry	
Soil (in the park)	Izumigaoka-higashi Children's Park, 1 Izumigaoka, Iwaki	Dec-20	Cs137	1690.0 Bq/kg dry	± 184.0 Bq/kg dry	1773.1	Cs137	9.6 Bq/kg dry	
			Cs134	83.1 Bq/kg dry	± 14.1 Bq/kg dry		Cs134	12.7 Bq/kg dry	
Soil (in the park)	Izumigaoka-higashi Children's Park, 1 Izumigaoka, Iwaki	Dec-20	Cs137	1670.0 Bq/kg dry	± 169.0 Bq/kg dry	1720.3	Cs137	5.4 Bq/kg dry	
			Cs134	50.3 Bq/kg dry	± 6.2 Bq/kg dry		Cs134	5.5 Bq/kg dry	
Soil (in the park)	Izumigaoka-higashi Children's Park, 1 Izumigaoka, Iwaki	Dec-20	Cs137	1260.0 Bq/kg dry	± 138.0 Bq/kg dry	1323.7	Cs137	9.7 Bq/kg dry	
			Cs134	63.7 Bq/kg dry	± 11.6 Bq/kg dry		Cs134	10.6 Bq/kg dry	
Soil (in the park) under the Playground equipment	Izumigaoka-higashi Children's Park, 1 Izumigaoka, Iwaki	Dec-20	Cs137	851.0 Bq/kg dry	± 94.6 Bq/kg dry	893.2	Cs137	6.0 Bq/kg dry	
			Cs134	42.2 Bq/kg dry	± 8.7 Bq/kg dry		Cs134	7.0 Bq/kg dry	
Soil (in the park)	Izumigaoka-higashi Children's Park, 1 Izumigaoka, Iwaki	Dec-20	Cs137	698.0 Bq/kg dry	± 7.2 Bq/kg dry	724.3	Cs137	4.7 Bq/kg dry	
			Cs134	26.3 Bq/kg dry	± 3.7 Bq/kg dry		Cs134	5.4 Bq/kg dry	
Soil (in the park)	Izumigaoka-higashi Children's Park, 1 Izumigaoka, Iwaki	Dec-20	Cs137	152.0 Bq/kg dry	± 16.5 Bq/kg dry	159.7	Cs137	2.7 Bq/kg dry	
			Cs134	7.7 Bq/kg dry	± 1.6 Bq/kg dry		Cs134	3.5 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)


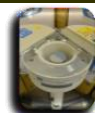

Samples	Sampling Point	Sampling Month	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection	
Soil(in the park)Sandbox	Izumigaoka-higashi Children's Park, 1 Izumigaoka, Iwaki	Dec-20	Cs137	113.0 Bq/kg dry	± 12.6 Bq/kg dry	113.0	Cs137	3.8 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	6.3 Bq/kg dry	
Soil (in the park)	Izumigaoka-kita Park, 2 Izumigaoka, Iwaki	Dec-20	Cs137	3110.0 Bq/kg dry	± 340.0 Bq/kg dry	3272.0	Cs137	10.4 Bq/kg dry	
			Cs134	162.0 Bq/kg dry	± 27.0 Bq/kg dry		Cs134	11.2 Bq/kg dry	
Soil (in the park)	Izumigaoka-kita Park, 2 Izumigaoka, Iwaki	Dec-20	Cs137	2590.0 Bq/kg dry	± 274.0 Bq/kg dry	2727.0	Cs137	12.6 Bq/kg dry	
			Cs134	137.0 Bq/kg dry	± 18.1 Bq/kg dry		Cs134	12.8 Bq/kg dry	
Soil (in the park)	Izumigaoka-kita Park, 2 Izumigaoka, Iwaki	Dec-20	Cs137	988.0 Bq/kg dry	± 108.0 Bq/kg dry	1037.3	Cs137	10.1 Bq/kg dry	
			Cs134	49.3 Bq/kg dry	± 8.6 Bq/kg dry		Cs134	14.1 Bq/kg dry	
Soil (in the park)	Izumigaoka-kita Park, 2 Izumigaoka, Iwaki	Dec-20	Cs137	875.0 Bq/kg dry	± 105.0 Bq/kg dry	917.6	Cs137	4.9 Bq/kg dry	
			Cs134	42.6 Bq/kg dry	± 12.6 Bq/kg dry		Cs134	6.2 Bq/kg dry	
Soil (in the park)	Izumigaoka-kita Park, 2 Izumigaoka, Iwaki	Dec-20	Cs137	792.0 Bq/kg dry	± 85.0 Bq/kg dry	833.7	Cs137	9.4 Bq/kg dry	
			Cs134	41.7 Bq/kg dry	± 6.2 Bq/kg dry		Cs134	11.4 Bq/kg dry	
Soil (in the park)	Izumigaoka-kita Park, 2 Izumigaoka, Iwaki	Dec-20	Cs137	735.0 Bq/kg dry	± 79.6 Bq/kg dry	770.3	Cs137	9.7 Bq/kg dry	
			Cs134	35.3 Bq/kg dry	± 6.0 Bq/kg dry		Cs134	13.3 Bq/kg dry	
Soil (in the park)	Izumigaoka-kita Park, 2 Izumigaoka, Iwaki	Dec-20	Cs137	250.0 Bq/kg dry	± 27.4 Bq/kg dry	261.5	Cs137	3.8 Bq/kg dry	
			Cs134	11.5 Bq/kg dry	± 2.4 Bq/kg dry		Cs134	4.6 Bq/kg dry	
Soil (in the park)	Izumigaoka-kita Park, 2 Izumigaoka, Iwaki	Dec-20	Cs137	70.7 Bq/kg dry	± 9.1 Bq/kg dry	70.7	Cs137	7.1 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	11.5 Bq/kg dry	
Soil (in the park)	Inogashira Park Tokyo	Dec-20	Cs137	— Bq/kg dry	± — Bq/kg dry	Under Minimum Limit of Detection	Cs137	3.2 Bq/kg dry	
			Cs134	— Bq/kg dry	± — Bq/kg dry		Cs134	3.4 Bq/kg dry	
Vacuum cleaner dust	Onahama-hanabatake, Iwaki	Dec-20	Cs137	247.4 Bq/kg raw	± 28.6 Bq/kg raw	256.9	Cs137	12.3 Bq/kg raw	
			Cs134	9.5 Bq/kg raw	± 6.9 Bq/kg raw		Cs134	9.1 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

Measuring instrument		Feature	Guide to lower limit※
NaI Scintillation Spectrometer			
Product of ATOMTEX AT1320A 	Product of BERTHOLD LB2045 	· Gamma-ray spectrometer with NaI scintillation detector.	Food (Sample 1kg) Lower limit 1.0Bq/Kg Soil (Sample 1kg) Lower limit 2.5Bq/Kg Material (Sample 1kg) Lower limit 1.0Bq/Kg Water (Sample 20L) Lower limit 0.02Bq/L
Germanium Semiconductor detector			
ORTEC GEM30-70 		· Radioactivity measurement series. Quantitative analysis based on "Gamma-ray spectrometry with germanium semiconductor detector." · Relative efficiency 35%	Food (Sample 2kg) Lower limit 0.04Bq/Kg Soil (Sample 1kg) Lower limit 0.06Bq/Kg Material (Sample 1kg) Lower limit 0.06Bq/Kg Water (Sample 20L) Lower limit 0.001Bq/L

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

Measuring instrument: Germanium Semiconductor detector (Bq/kg raw: Weight of raw sample Bq/kg dry: Weight of dried sample)

Samples	Sampling Point	Sampling Month	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection	
Rice	Nagano Pref.	Oct-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.04	Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	0.04
Rice	Niigata Pref.	Oct-20	Cs137	— Bq/kg raw	± — Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.06	Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	0.06
Goby	Iwaki city	Nov-20	Cs137	0.58 Bq/kg raw	± 0.09 Bq/kg raw	0.58	Cs137	0.18	Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	0.19
Fox jacopever (flesh)	Off the coast of Fukushima Nuclear Power Plant1	Nov-20	Cs137	9.2 Bq/kg raw	± 0.2 Bq/kg raw	9.7	Cs137	0.2	Bq/kg raw
			Cs134	0.5 Bq/kg raw	± 0.1 Bq/kg raw			Cs134	0.2
Fox jacopever (flesh)	Off the coast of Fukushima Nuclear Power Plant1	Nov-20	Cs137	6.5 Bq/kg raw	± 0.2 Bq/kg raw	6.9	Cs137	0.3	Bq/kg raw
			Cs134	0.4 Bq/kg raw	± 0.1 Bq/kg raw			Cs134	0.3
Fox jacopever (flesh)	Off the coast of Fukushima Nuclear Power Plant1	Nov-20	Cs137	4.3 Bq/kg raw	± 0.1 Bq/kg raw	4.6	Cs137	0.2	Bq/kg raw
			Cs134	0.3 Bq/kg raw	± 0.1 Bq/kg raw			Cs134	0.3
Fox jacopever (flesh)	Off the coast of Fukushima Nuclear Power Plant1	Nov-20	Cs137	3.2 Bq/kg raw	± 0.1 Bq/kg raw	3.2	Cs137	0.4	Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	0.5
Fox jacopever (flesh)	Off the coast of Fukushima Nuclear Power Plant1	Nov-20	Cs137	2.5 Bq/kg raw	± 0.1 Bq/kg raw	2.5	Cs137	0.2	Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	0.2
Fox jacopever (flesh)	Off the coast of Fukushima Nuclear Power Plant1	Nov-20	Cs137	2.4 Bq/kg raw	± 0.1 Bq/kg raw	2.4	Cs137	0.2	Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	0.3
Fox jacopever (flesh)	Off the coast of Fukushima Nuclear Power Plant1	Nov-20	Cs137	2.4 Bq/kg raw	± 0.2 Bq/kg raw	2.4	Cs137	0.3	Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	0.3
Fox jacopever (flesh)	Off the coast of Fukushima Nuclear Power Plant1	Nov-20	Cs137	2.2 Bq/kg raw	± 0.1 Bq/kg raw	2.2	Cs137	0.3	Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	0.3
Fox jacopever (flesh)	Off the coast of Fukushima Nuclear Power Plant1	Nov-20	Cs137	2.0 Bq/kg raw	± 0.1 Bq/kg raw	2.0	Cs137	0.2	Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	0.2
Greenling (flesh)	Off the coast of Fukushima Nuclear Power Plant1	Nov-20	Cs137	4.5 Bq/kg raw	± 0.1 Bq/kg raw	4.8	Cs137	0.2	Bq/kg raw
			Cs134	0.3 Bq/kg raw	± 0.1 Bq/kg raw			Cs134	0.2
Greenling (flesh)	Off the coast of Fukushima Nuclear Power Plant1	Nov-20	Cs137	3.1 Bq/kg raw	± 0.1 Bq/kg raw	3.1	Cs137	0.1	Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	0.1
Greenling (flesh)	Off the coast of Fukushima Nuclear Power Plant1	Nov-20	Cs137	3.0 Bq/kg raw	± 0.1 Bq/kg raw	3.0	Cs137	0.2	Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	0.2
Greenling (flesh)	Off the coast of Fukushima Nuclear Power Plant1	Nov-20	Cs137	2.7 Bq/kg raw	± 0.1 Bq/kg raw	2.7	Cs137	0.2	Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	0.2
Flounder(flesh)	Off the coast of Fukushima Nuclear Power Plant1	Nov-20	Cs137	1.9 Bq/kg raw	± 0.1 Bq/kg raw	1.9	Cs137	0.1	Bq/kg raw
			Cs134	— Bq/kg raw	± — Bq/kg raw			Cs134	0.1

※ "-" 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)


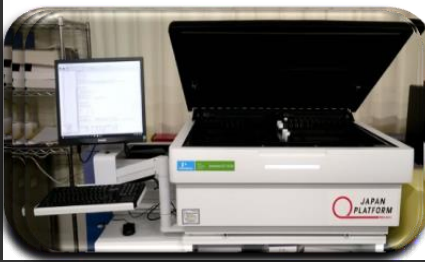
Samples	Sampling Point	Sampling Month	Measurement Result		Uncertainty		Total Amount of Cesium	Minimum Limit of Detection	
Flounder(flesh)	Off the coast of Fukushima Nuclear Power Plant1	Nov-20	Cs137	1.2 Bq/kg raw	± 0.1 Bq/kg raw	1.2	Cs137	0.1 Bq/kg raw	
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.1 Bq/kg raw	
Flounder(flesh)	Off the coast of Fukushima Nuclear Power Plant1	Nov-20	Cs137	1.1 Bq/kg raw	± 0.1 Bq/kg raw	1.1	Cs137	0.1 Bq/kg raw	
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.2 Bq/kg raw	
White rockfish (flesh)	Off the coast of Fukushima Nuclear Power Plant1	Nov-20	Cs137	2.2 Bq/kg raw	± 0.1 Bq/kg raw	2.2	Cs137	0.2 Bq/kg raw	
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.2 Bq/kg raw	
Yellowtail (flesh)	Off the coast of Fukushima Nuclear Power Plant1	Nov-20	Cs137	0.5 Bq/kg raw	± 0.1 Bq/kg raw	0.5	Cs137	0.1 Bq/kg raw	
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.1 Bq/kg raw	
Shitake mushroom grown in log①	Tamura, Fukushima	Dec-20	Cs137	255.6 Bq/kg raw	± 1.8 Bq/kg raw	267.6	Cs137	0.5 Bq/kg raw	
			Cs134	12.0 Bq/kg raw	± 0.4 Bq/kg raw		Cs134	0.5 Bq/kg raw	
Shitake mushroom grown in log②	Tamura, Fukushima	Dec-20	Cs137	25.2 Bq/kg raw	± 0.5 Bq/kg raw	26.5	Cs137	0.3 Bq/kg raw	
			Cs134	1.3 Bq/kg raw	± 0.1 Bq/kg raw		Cs134	0.3 Bq/kg raw	
Shiitake mushroom (dry)	Hanawa,Higashi-shirakawa, Fukushima	Dec-20	Cs137	30.1 Bq/kg raw	± 1.1 Bq/kg raw	32.2	Cs137	1.4 Bq/kg raw	
			Cs134	2.1 Bq/kg raw	± 0.7 Bq/kg raw		Cs134	1.4 Bq/kg raw	
Wild Late fall oyster mushroom(dry)	Nishikawa, Nishimurayama, Yamagata	Dec-20	Cs137	35.3 Bq/kg raw	± 1.0 Bq/kg raw	35.3	Cs137	1.0 Bq/kg raw	
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	1.0 Bq/kg raw	
Wild Nameko mushroom	Nishikawa, Nishimurayama, Yamagata	Dec-20	Cs137	1.49 Bq/kg raw	± 0.06 Bq/kg raw	1.49	Cs137	0.09 Bq/kg raw	
			Cs134	— Bq/kg raw	± — Bq/kg raw		Cs134	0.09 Bq/kg raw	
Moss	Marumori, Igu, Miyagi	Dec-20	Cs137	648.6 Bq/kg raw	± 16.7 Bq/kg raw	676.8	Cs137	10.3 Bq/kg raw	
			Cs134	28.2 Bq/kg raw	± 6.1 Bq/kg raw		Cs134	11.1 Bq/kg raw	
River sand	River Abukumma, Miyagi Pref.	Dec-20	Cs137	227.5 Bq/kg 乾	± 5.4 Bq/kg dry	237.2	Cs137	2.7 Bq/kg dry	
			Cs134	9.7 Bq/kg 乾	± 1.5 Bq/kg dry		Cs134	2.4 Bq/kg dry	
Sea water (surface)	SomaPort, Fukushima Pref.	Sep-20	Cs137	0.007 Bq/L	± 0.0005 Bq/L	0.007	Cs137	0.0009 Bq/L	
			Cs134	— Bq/L	± — Bq/L		Cs134	0.001 Bq/L	
Sea water (lower)	SomaPort, Fukushima Pref.	Sep-20	Cs137	0.013 Bq/L	± 0.0007 Bq/L	0.014	Cs137	0.001 Bq/L	
			Cs134	0.001 Bq/L	± 0.0005 Bq/L		Cs134	0.001 Bq/L	
River water (surface)	River Jizo, Fukushima Pref.	Sep-20	Cs137	0.001 Bq/L	± 0.0004 Bq/L	0.001	Cs137	0.0009 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.



★Beta-ray

Measuring instrument		Feature
Liquid Scintillation Counter		
Product of Hidex HIDEX 300SLL	Product of PerkinElmer Japan Quantulus GCT 622	Equipment for measuring low-energy beta-ray emission nuclides
		Measuring nuclide Strontium90 Half-life 30 years Organically bound 3H 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	
Persimmon(pulp)	Koriyama, Fukushima	Nov-20	T (Organic)	Under Minimum Limit of Detection	Bq/kg dry	±	—	Bq/kg dry	1.13 Bq/kg dry
Persimmon(pulp)	Koriyama, Fukushima	Nov-20	Sr90	Under Minimum Limit of Detection	Bq/kg dry	±	—	Bq/kg dry	0.14 Bq/kg dry
Bread	Nara Pref.	Oct-20	Sr90	Under Minimum Limit of Detection	Bq/kg dry	±	—	Bq/kg dry	0.24 Bq/kg dry
Fox jacopever	Off the coast of Fukushima Nuclear Power Plant 1	Jul-18	Sr90	0.17	Bq/kg dry	±	0.08	Bq/kg dry	0.11 Bq/kg dry
Flounder	Off the coast of Fukushima Nuclear Power Plant 1	Jul-18	Sr90	0.35	Bq/kg dry	±	0.08	Bq/kg dry	0.12 Bq/kg dry
Greenling (bone)	Off the coast of Fukushima Nuclear Power Plant 1	Jul-18	Sr90	Under Minimum Limit of Detection	Bq/kg dry	±	—	Bq/kg dry	0.12 Bq/kg dry
Young yellowtail (head,guts)	Off the coast of Fukushima Nuclear Power Plant 1	Jul-18	Sr90	Under Minimum Limit of Detection	Bq/kg dry	±	—	Bq/kg dry	0.12 Bq/kg dry
Dried seaweed	Off the coast of Sanriku	Oct-20	Sr90	Under Minimum Limit of Detection	Bq/kg dry	±	—	Bq/kg dry	0.23 Bq/kg dry
Pine cone	Onahama, Iwaki	Apr-19	Sr90	2.33	Bq/kg dry	±	0.33	Bq/kg dry	0.32 Bq/kg dry
Pine leaf	Suetsugi, Hisanohama, Iwaki	Oct-20	Sr90	1.08	Bq/kg dry	±	0.24	Bq/kg dry	0.28 Bq/kg dry
Soil	Suetsugi, Hisanohama, Iwaki	Oct-20	Sr90	2.44	Bq/kg dry	±	0.98	Bq/kg dry	1.46 Bq/kg dry
Lake bottom soil/ Center of lake 0-5cm	Lake Inawashiro, Fukushima Pref.	Oct-20	Sr90	Under Minimum Limit of Detection	Bq/kg dry	±	—	Bq/kg dry	1.60 Bq/kg dry
Lake bottom soil/ Center of lake 10~15 cm	Lake Inawashiro, Fukushima Pref.	Oct-20	Sr90	3.13	Bq/kg dry	±	1.22	Bq/kg dry	1.82 Bq/kg dry
Lake bottom soil/ Center of lake 20~25cm	Lake Inawashiro, Fukushima Pref.	Oct-20	Sr90	Under Minimum Limit of Detection	Bq/kg dry	±	—	Bq/kg dry	2.29 Bq/kg dry
Lake bottom soil/ Center of lake Over 30cm	Lake Inawashiro, Fukushima Pref.	Oct-20	Sr90	1.82	Bq/kg dry	±	1.04	Bq/kg dry	1.57 Bq/kg dry
Sea water A (surface)	Off the coast of Fukushima Nuclear Power Plant 1	Nov-20	Sr90	0.0016	Bq/L	±	0.0005	Bq/L	0.0006 Bq/L
Sea water A (lower)	Off the coast of Fukushima Nuclear Power Plant 1	Nov-20	Sr90	0.0013	Bq/L	±	0.0005	Bq/L	0.0007 Bq/L
Sea water B (surface)	Off the coast of Fukushima Nuclear Power Plant 1	Nov-20	Sr90	0.0012	Bq/L	±	0.0006	Bq/L	0.0008 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.

★Beta-ray

(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 B (lower)	Off the coast of Fukushima Nuclear Power Plant 1	Nov-20	Sr90	0.0008 Bq/L	± 0.0004 Bq/L	0.0006 Bq/L
Sea water C (surface)	Off the coast of Fukushima Nuclear Power Plant 1	Nov-20	Sr90	0.0015 Bq/L	± 0.0005 Bq/L	0.0008 Bq/L
Sea water C (lower)	Off the coast of Fukushima Nuclear Power Plant 1	Nov-20	Sr90	0.0007 Bq/L	± 0.0004 Bq/L	0.0006 Bq/L
Sea water (surface)	Tomioka Port, Fukushima Pref.	Nov-20	Sr90	Under Minimum Limit of Detection Bq/L	± — Bq/L	0.0007 Bq/L
Sea water (lower)	Tomioka Port, Fukushima Pref.	Nov-20	Sr90	0.0012 Bq/L	± 0.0004 Bq/L	0.0006 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.



Measurement results of 16 items by germanium semiconductor detector

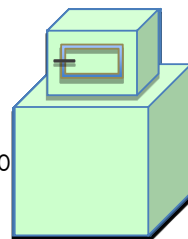
Dr. Tetsuji Imanaka, Institute of Multiple Nuclear Science, Kyoto University

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	
				Isotope	Value (Bq/kg)	Isotope	Value (Bq/kg)		Isotope	Value (Bq/kg)
Potato	Nemie, Futaba, Fukushima	Aug-20	OR	Cs137	4.2	± 0.1	4.34	Cs137	—	
				Cs134	0.14	± 0.04		Cs134	—	
Potato	Iwaki city	Sep-20	OR	Cs137	—	± —	Under Minimum Limit of Detection	Cs137	0.09	
				Cs134	—	± —		Cs134	—	
Taro	Soma, Fukushima	Oct-20	OR	Cs137	0.2	± 0.1	0.2	Cs137	—	
				Cs134	—	± —		Cs134	—	
Sweet potato	Chiba Pref.	Sep-20	OR	Cs137	0.1	± 0.03	0.1	Cs137	—	
				Cs134	—	± —		Cs134	—	
Onion	Nemie, Futaba, Fukushima	Oct-20	OR	Cs137	0.2	± 0.03	0.2	Cs137	—	
				Cs134	—	± —		Cs134	—	
Celery	Nagano Pref.	Aug-20	OR	Cs137	—	± —	Under Minimum Limit of Detection	Cs137	0.08	
				Cs134	—	± —		Cs134	—	
Lotus root	Ibaraki Pref.	Sep-20	CA	Cs137	2.0	± 0.09	2.08	Cs137	—	
				Cs134	0.08	± 0.04		Cs134	—	
Fig	Lake Inawashiro, Fukushima Pref.	Oct-20	OR	Cs137	0.4	± 0.05	0.4	Cs137	—	
				Cs134	—	± —		Cs134	—	
Fig	Minamisoma, Fukushima	Oct-20	OR	Cs137	4.2	± 0.2	4.37	Cs137	—	
				Cs134	0.17	± 0.08		Cs134	—	
Princess apple	Suetsugi, Hisanohama, Iwaki	Oct-20	CA	Cs137	0.8	± 0.09	0.8	Cs137	—	
				Cs134	—	± —		Cs134	—	
Chicken breast	Japan (production)	Aug-20	CA	Cs137	—	± —	Under Minimum Limit of Detection	Cs137	0.2	
				Cs134	—	± —		Cs134	—	
Sakhalin surf clam (shell)	Yotsukura, Iwaki	Aug-20	OR	Cs137	0.3	± 0.1	0.3	Cs137	—	
				Cs134	—	± —		Cs134	—	
Shitake mushroom grown in log	Shinti, Soma, Fukushima	Oct-20	CA	Cs137	1.9	± 0.05	1.94	Cs137	—	
				Cs134	0.04	± 0.02		Cs134	—	
Wood ear mushroom(dry)	Minamisoma, Fukushima	Oct-20	OR	Cs137	2.7	± 0.4	2.7	Cs137	—	
				Cs134	—	± —		Cs134	—	
Acorn(After cleaning)	Miyamae, Kawasaki, Kanagawa	Sep-20	OR	Cs137	8	± 0.3	8.3	Cs137	—	
				Cs134	0.3	± 0.1		Cs134	—	
Flower of Loquat	Suetsugi, Hisanohama, Iwaki	Oct-20	OR	Cs137	22	± 0.9	22.8	Cs137	—	
				Cs134	0.8	± 0.6		Cs134	—	

※"—" 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.