



# Radiation Measurement Results of 131 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※
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: NaI 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	Iwaki	Oct-19	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	1.2
			Cs134	—	±	—		Cs134	1.1
Rice	Sakura-ku, Saitama, Saitama	Oct-19	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	0.9
			Cs134	—	±	—		Cs134	0.9
Taro	Izumi, Iwaki	Jan-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	1.5
			Cs134	—	±	—		Cs134	1.5
Sweet potato	Ibaraki	Feb-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	1.4
			Cs134	—	±	—		Cs134	1.3
Baked sweet potato	Ibaraki	Feb-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	1.3
			Cs134	—	±	—		Cs134	1.2
Carrot	Koriyama, Fukushima	Feb-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	1.6
			Cs134	—	±	—		Cs134	1.6
Carrot	Ashigara, Kanagawa	Feb-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	1.3
			Cs134	—	±	—		Cs134	1.1
Japanese white radish	Iritono, Tono, Iwaki	Feb-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	1.7
			Cs134	—	±	—		Cs134	1.6
Round Japanese white radish	Iwaki	Feb-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	1.3
			Cs134	—	±	—		Cs134	1.3
Dried Japanese white radish	Watanabe, Iwaki	Feb-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	3.1
			Cs134	—	±	—		Cs134	2.4
Dried Japanese white radish and dried carrot	Tabito, Iwaki	Feb-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	4.8
			Cs134	—	±	—		Cs134	4.0
Dried Japanese white radish	Miyazaki	Jan-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	5.9
			Cs134	—	±	—		Cs134	4.6
Freeze dried Japanese white radish	Takine, Tamura, Fukushima	Feb-20	Cs137	2.7	±	1.6	2.7	Cs137	1.9
			Cs134	—	±	—		Cs134	1.4
Chinese cabbage	Iritono, Tono, Iwaki	Feb-20	Cs137	—	±	—	Under Minimum Limit of Detection	Cs137	1.0
			Cs134	—	±	—		Cs134	0.9

※"—" 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				
Cabbage	Chiba	Feb-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.5	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.4	Bq/kg raw
Cabbage	Aichi	Jan-20	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
Lettuce	Shizuoka	Jan-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	1.7	Bq/kg raw
Green onion	Chuoudai, Iwaki	Feb-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	1.5	Bq/kg raw
Green onion	Iritono, Tono, Iwaki	Feb-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
Spinach	Iritono, Tono, Iwaki	Feb-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	2.8	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	2.1	Bq/kg raw
Spinach	Okoshi, Tamura, Fukushima	Feb-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.5	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.3	Bq/kg raw
Qing-geng-cai	Ibaraki	Feb-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	1.7	Bq/kg raw
Garland chrysanthemum	Iwaki	Feb-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	1.4	Bq/kg raw
Asuparana (autumn poem)	Iwaki	Feb-20	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
Common iceplant	Ushiroda, Iwaki	Feb-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
Broccoli	Iwaki	Feb-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	1.4	Bq/kg raw
Ginger	Ibaraki	Feb-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.0	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	0.9	Bq/kg raw
Canola flower	Iwaki	Feb-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	1.5	Bq/kg raw
Aralia sprout	Murayama, Yamagata	Feb-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	5.0	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	4.0	Bq/kg raw
Butterbur sprout	Iwaki	Feb-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	3.1	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	2.6	Bq/kg raw
Arugula	Iwaki	Feb-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	3.8	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	3.7	Bq/kg raw
Kiwi	Iwaki	Feb-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.8	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	0.7	Bq/kg raw
Suntara orange	Aichi	Feb-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	1.6	Bq/kg raw
Shitake mushroom grown in log	Iwaki	Feb-20	Cs137	4.6	Bq/kg raw	±	1.3	Bq/kg raw	4.6	Cs137	1.4	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.3	Bq/kg raw
Shitake mushroom grown in log(dried)	Kyushu region	Feb-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	4.5	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	3.4	Bq/kg raw
Shiitake mushroom	Nakoso, Iwaki	Feb-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.5	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.3	Bq/kg raw
Shimeji mushroom	Nakano, Nagano	Feb-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
Mushroom (cooked in soy sauce)	Niigata, Niigata	Jan-20	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	1.0	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				
Chicken	Brazil	Jan-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	1.3	Bq/kg raw
Boar(thigh)	Chuodaikashima, Iwaki	Feb-20	Cs137	99.8	Bq/kg raw	±	20.0	Bq/kg raw	108.6	Cs137	1.1	Bq/kg raw
			Cs134	8.8	Bq/kg raw	±	1.9	Bq/kg raw		Cs134	1.0	Bq/kg raw
Boar (heart, liver)	Chuodaikashima, Iwaki	Feb-20	Cs137	29.4	Bq/kg raw	±	5.9	Bq/kg raw	33.9	Cs137	1.0	Bq/kg raw
			Cs134	4.5	Bq/kg raw	±	1.1	Bq/kg raw		Cs134	0.9	Bq/kg raw
Boar · male (thigh)	Ena, Iwaki	Feb-20	Cs137	57.9	Bq/kg raw	±	11.6	Bq/kg raw	63.0	Cs137	1.7	Bq/kg raw
			Cs134	5.1	Bq/kg raw	±	1.4	Bq/kg raw		Cs134	1.5	Bq/kg raw
Boar · male (heart, liver)	Ena, Iwaki	Feb-20	Cs137	19.8	Bq/kg raw	±	4.2	Bq/kg raw	19.8	Cs137	1.7	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.6	Bq/kg raw
Bacon	unknown	Jan-20	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	1.0	Bq/kg raw
Non-farmed yellowtail	Boso peninsula	Feb-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.3	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.2	Bq/kg raw
Japanese sardine sausage	Choshi, Chiba	Jan-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
Dried green seaweed	Fukuhsima	Feb-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.9	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	0.8	Bq/kg raw
Miso	Kamiina, Nagano	Feb-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.8	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	0.7	Bq/kg raw
Bran	Kawamata, Date, Fukushima	Feb-20	Cs137	4.5	Bq/kg raw	±	1.4	Bq/kg raw	4.5	Cs137	1.6	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.4	Bq/kg raw
Dried wheat gluten	Shiraishi, Miyagi	Feb-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	6.4	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	5.8	Bq/kg raw
Konjac	Japan (production)	Feb-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.9	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	0.8	Bq/kg raw
Borscht	Japan (production)	Feb-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	1.3	Bq/kg raw
Chowder roux	Japan (production)	Feb-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	5.4	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	4.5	Bq/kg raw
Milk	Kushiro, Hokkaido	Feb-20	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
Milk	Izu, Shizuoka	Jan-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.0	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	0.9	Bq/kg raw
Apple juice	Sapporo, Hokkaido	Dec-19	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	1.0	Bq/kg raw
Apple juice	Chiba	Feb-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
Yogurt	Tsubame, Niigata	Feb-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	1.5	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	1.3	Bq/kg raw
Soy milk yogurt	Japan (production)	Feb-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	1.6	Bq/kg raw
Bread	Japan (production)	Jan-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	1.9	Bq/kg raw
Boiled udon noodle	Shibuya-ku, Tokyo	Jan-20	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
Dried udon noodle	Watanabe, Iwaki	Feb-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

※"\_" 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				
Potage soup	Sakura, Chiba	Jan-20	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
Soy bean snacks	Samegawa, Higashishirakawa, Fukushima	Jan-20	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
Rice seasoning	Japan (production)	Jan-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	10.3	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	8.2	Bq/kg raw
Raw cotton	Tomioka, Futaba, Fukushima	Jan-20	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	2.7	Bq/kg raw
Raw cotton①	Hirono, Futaba, Fukushima	Jan-20	Cs137	12.1	Bq/kg raw	±	3.2	Bq/kg raw	12.1	Cs137	3.3	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	3.2	Bq/kg raw
Raw cotton②	Hirono, Futaba, Fukushima	Nov-19	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	5.4	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	5.2	Bq/kg raw
Raw cotton	Ohisa, Iwaki	Jan-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	3.1	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	2.8	Bq/kg raw
Raw cotton	Yotsukura, Iwaki	Jan-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	3.5	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	3.2	Bq/kg raw
Raw cotton	Onahamakamikaziro, Iwaki	Jan-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	4.2	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	4.0	Bq/kg raw
Raw cotton	Onahamanoda, Iwaki	Jan-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
Raw cotton	Tono, Iwaki	Jan-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	3.7	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	3.3	Bq/kg raw
Raw cotton	Tairahirakubo, Iwaki	Jan-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	3.9	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	3.8	Bq/kg raw
Raw cotton	Ogawa, Iwaki	Jan-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	3.8	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	3.7	Bq/kg raw
Raw cotton	Ogawa, Iwaki	Jan-01	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	4.5	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	4.1	Bq/kg raw
Raw cotton	Takizirinakanotsubo, Izumi, Iwaki	Jan-20	Cs137	—	Bq/kg raw	±	—	Bq/kg raw	Under Minimum Limit of Detection	Cs137	4.4	Bq/kg raw
			Cs134	—	Bq/kg raw	±	—	Bq/kg raw		Cs134	3.9	Bq/kg raw
Soil (farm field soil)	Tomioka, Futaba, Fukushima	Jan-20	Cs137	499.0	Bq/kg dry	±	54.4	Bq/kg dry	533.2	Cs137	7.2	Bq/kg dry
			Cs134	34.2	Bq/kg dry	±	5.7	Bq/kg dry		Cs134	8.6	Bq/kg dry
Soil (farm field soil)	Hirono, Futaba, Fukushima	Jan-20	Cs137	269.0	Bq/kg dry	±	29.8	Bq/kg dry	289.7	Cs137	6.2	Bq/kg dry
			Cs134	20.7	Bq/kg dry	±	3.8	Bq/kg dry		Cs134	7.8	Bq/kg dry
Soil①	Uchigomimaya, Iwaki	Feb-20	Cs137	4040.0	Bq/kg dry	±	434.0	Bq/kg dry	4311.0	Cs137	16.3	Bq/kg dry
			Cs134	271.0	Bq/kg dry	±	36.1	Bq/kg dry		Cs134	16.4	Bq/kg dry
Soil②	Uchigomimaya, Iwaki	Feb-20	Cs137	3890.0	Bq/kg dry	±	430.0	Bq/kg dry	4110.0	Cs137	14.8	Bq/kg dry
			Cs134	220.0	Bq/kg dry	±	35.6	Bq/kg dry		Cs134	15.6	Bq/kg dry
Soil①	Jobanyumoto, Iwaki	Jan-20	Cs137	18800.0	Bq/kg dry	±	2030.0	Bq/kg dry	20140.0	Cs137	39.6	Bq/kg dry
			Cs134	1340.0	Bq/kg dry	±	179.0	Bq/kg dry		Cs134	37.2	Bq/kg dry
Soil②	Jobanyumoto, Iwaki	Jan-20	Cs137	2.6	Bq/kg dry	±	1.3	Bq/kg dry	2.6	Cs137	2.5	Bq/kg dry
			Cs134	—	Bq/kg dry	±	—	Bq/kg dry		Cs134	2.7	Bq/kg dry
Soil①	Jobanyumoto, Iwaki	Feb-20	Cs137	1840.0	Bq/kg dry	±	202.0	Bq/kg dry	1954.0	Cs137	6.3	Bq/kg dry
			Cs134	114.0	Bq/kg dry	±	17.9	Bq/kg dry		Cs134	6.8	Bq/kg dry
Soil②	Jobanyumoto, Iwaki	Feb-20	Cs137	160.0	Bq/kg dry	±	18.1	Bq/kg dry	171.6	Cs137	3.9	Bq/kg dry
			Cs134	11.6	Bq/kg dry	±	2.4	Bq/kg dry		Cs134	4.9	Bq/kg dry
Soil③	Jobanyumoto, Iwaki	Feb-20	Cs137	21.1	Bq/kg dry	±	3.1	Bq/kg dry	21.1	Cs137	4.0	Bq/kg dry
			Cs134	—	Bq/kg dry	±	—	Bq/kg dry		Cs134	4.6	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

(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	Jobanyumoto, Iwaki	Jan-20	Cs137	8.5	Bq/kg dry	± 1.8	Bq/kg dry	8.5	Cs137	4.2	Bq/kg dry
			Cs134	—	Bq/kg dry	± —	Bq/kg dry		Cs134	4.5	Bq/kg dry
Soil	Jobanyumoto, Iwaki	Feb-20	Cs137	3.5	Bq/kg dry	± 0.9	Bq/kg dry	3.5	Cs137	3.2	Bq/kg dry
			Cs134	—	Bq/kg dry	± —	Bq/kg dry		Cs134	3.1	Bq/kg dry
Soil	Jobanmizunoya, Iwaki	Jan-20	Cs137	48.6	Bq/kg dry	± 7.4	Bq/kg dry	48.6	Cs137	3.5	Bq/kg dry
			Cs134	—	Bq/kg dry	± —	Bq/kg dry		Cs134	4.0	Bq/kg dry
Soil	Hayama, Iwaki	Jan-20	Cs137	19.8	Bq/kg dry	± 3.2	Bq/kg dry	19.8	Cs137	4.3	Bq/kg dry
			Cs134	—	Bq/kg dry	± —	Bq/kg dry		Cs134	5.0	Bq/kg dry
Vacuum cleaner dust (Dyson)	Iritono, Tono, Iwaki	Feb-20	Cs137	105.9	Bq/kg raw	± 23.0	Bq/kg raw	105.9	Cs137	16.7	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	12.4	Bq/kg raw
Vacuum cleaner dust (HITACHI Cyclone)	Onahamaohara, Iwaki	Feb-20	Cs137	24.5	Bq/kg raw	± 4.5	Bq/kg raw	24.5	Cs137	4.0	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	3.5	Bq/kg raw
Vacuum cleaner dust	Hikawadai, Nerima-ku, Tokyo	Feb-20	Cs137	—	Bq/kg raw	± —	Bq/kg raw	Under Minimum Limit of Detection	Cs137	10.1	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	7.8	Bq/kg raw
Cleaning sheet	Onahamahanabatake, Iwaki	Feb-20	Cs137	—	Bq/kg raw	± —	Bq/kg raw	Under Minimum Limit of Detection	Cs137	51.2	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	39.6	Bq/kg raw




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

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★Gamma-ray

Measuring instrument		Feature	Guide to lower limit※
<b>NaI Scintillation Spectrometer</b>			
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
<b>Germanium Semiconductor detector</b>			
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	Tairakoizumi, Iwaki	Oct-19	Cs137	0.14	Bq/kg raw	± 0.02	Bq/kg raw	<b>0.14</b>	Cs137	0.04	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	0.05	Bq/kg raw
Rice	Akita	Oct-19	Cs137	—	Bq/kg raw	± —	Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.04	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	0.04	Bq/kg raw
Rice	Sakura-ku, Saitama, Saitama	Oct-19	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	0.07	Bq/kg raw
Rice	Izu, Shizuoka	Oct-19	Cs137	0.08	Bq/kg raw	± 0.02	Bq/kg raw	<b>0.08</b>	Cs137	0.04	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	0.04	Bq/kg raw
Cabbage	Aichi	Jan-20	Cs137	—	Bq/kg raw	± —	Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.07	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	0.07	Bq/kg raw
Lettuce	Izu, Shizuoka	Jan-20	Cs137	—	Bq/kg raw	± —	Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.07	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	0.07	Bq/kg raw
Carrot	Kaminakai, Ashikaga, Kanagawa	Feb-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	0.05	Bq/kg raw
Konjac	Gunma	Feb-20	Cs137	0.10	Bq/kg raw	± 0.02	Bq/kg raw	<b>0.10</b>	Cs137	0.05	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	0.05	Bq/kg raw
Chicken	Brazil	Jan-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	Bq/kg raw
Japanese sardine sausage	Choshi, Chiba	Feb-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	Bq/kg raw
Milk	Izu, Shizuoka	Jan-20	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		Cs134	0.03	Bq/kg raw
Milk	Kushiro, Hokkaido	Feb-20	Cs137	0.06	Bq/kg raw	± 0.02	Bq/kg raw	<b>0.06</b>	Cs137	0.04	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	0.04	Bq/kg raw
cafe au lait	Yachiyo, Chiba	Jan-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	Bq/kg raw
Mix juice (vegetables, fruits)	Nasushiobara, Tochigi	Jan-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	Bq/kg raw
Lactic acid drink	Susono, Shizuoka	Jan-20	Cs137	—	Bq/kg raw	± —	Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.62	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	0.68	Bq/kg raw
Noodle soup base	Katori, Chiba	Nov-19	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	0.05	Bq/kg raw
Honey(acacia)	Hungary	Jan-20	Cs137	—	Bq/kg raw	± —	Bq/kg raw	Under Minimum Limit of Detection	Cs137	0.38	Bq/kg raw
			Cs134	—	Bq/kg raw	± —	Bq/kg raw		Cs134	0.42	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	
Soil	Kudankita, Chiyoda-ku, Tokyo	Jan-20	Cs137	630.2 <small>Bq/kg dry</small>	± 6.8 <small>Bq/kg dry</small>	<b>670.7</b>	Cs137	3.8 <small>Bq/kg dry</small>	
			Cs134	40.5 <small>Bq/kg dry</small>	± 1.9 <small>Bq/kg dry</small>		Cs134	3.7 <small>Bq/kg dry</small>	
Soil	Kuramae, Taito-ku, Tokyo	Jan-20	Cs137	569.1 <small>Bq/kg dry</small>	± 7.6 <small>Bq/kg dry</small>	<b>609.5</b>	Cs137	2.8 <small>Bq/kg dry</small>	
			Cs134	40.4 <small>Bq/kg dry</small>	± 2.5 <small>Bq/kg dry</small>		Cs134	3.4 <small>Bq/kg dry</small>	
Soil	Fujimi, Chiyoda-ku, Tokyo	Jan-20	Cs137	282.4 <small>Bq/kg dry</small>	± 6.2 <small>Bq/kg dry</small>	<b>296.7</b>	Cs137	3.0 <small>Bq/kg dry</small>	
			Cs134	14.3 <small>Bq/kg dry</small>	± 2.0 <small>Bq/kg dry</small>		Cs134	3.3 <small>Bq/kg dry</small>	
Soil	Kasuga, Kamio, Saitama	Jan-20	Cs137	219.4 <small>Bq/kg dry</small>	± 1.9 <small>Bq/kg dry</small>	<b>233.1</b>	Cs137	1.0 <small>Bq/kg dry</small>	
			Cs134	13.7 <small>Bq/kg dry</small>	± 0.7 <small>Bq/kg dry</small>		Cs134	1.1 <small>Bq/kg dry</small>	
Soil	Asamadai, Kamio, Saitama	Jan-20	Cs137	87.2 <small>Bq/kg dry</small>	± 1.0 <small>Bq/kg dry</small>	<b>93.2</b>	Cs137	0.7 <small>Bq/kg dry</small>	
			Cs134	6.0 <small>Bq/kg dry</small>	± 0.4 <small>Bq/kg dry</small>		Cs134	0.7 <small>Bq/kg dry</small>	

※"\_" 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	
Tap water	Negishi, Tono, Iwaki	Oct-19	T(Free)	Under Minimum Limit of Detection Bq/L	±	—	Bq/L	2.15 Bq/L
Tap water	Iritono, Tono, Iwaki	Oct-19	T(Free)	Under Minimum Limit of Detection Bq/L	±	—	Bq/L	2.15 Bq/L
Sea water	Around Sellafield Nuclear facilities	Oct-19	T(Free)	12.62 Bq/L	±	3.25	Bq/L	2.15 Bq/L
Shark(flesh)	Off the coast of Fukushima Nuclear Power Plant 2	Oct-18	T(Organization)	Under Minimum Limit of Detection Bq/Kg dry	±	—	Bq/Kg dry	1.65 Bq/Kg dry
Bamboo shoot	Iritono, Tono, Iwaki	May-17	Sr90	0.49 Bq/Kg dry	±	0.27	Bq/Kg dry	0.41 Bq/Kg dry
Matsutake mushroom	Ogawa, Iwaki	Oct-16	Sr90	Under Minimum Limit of Detection Bq/Kg dry	±	—	Bq/Kg dry	0.60 Bq/Kg dry
Greenling	Tairausuiso, Iwaki	Dec-16	Sr90	Under Minimum Limit of Detection Bq/Kg dry	±	—	Bq/Kg dry	0.13 Bq/Kg dry
Salmon(skin)	Norway	Dec-15	Sr90	Under Minimum Limit of Detection Bq/Kg dry	±	—	Bq/Kg dry	0.15 Bq/Kg dry
Baby formula milk	England	May-17	Sr90	Under Minimum Limit of Detection Bq/Kg dry	±	—	Bq/Kg dry	0.11 Bq/Kg dry
Moss (thatched roof)	Ohisa, Iwaki	Apr-18	Sr90	7.68 Bq/Kg dry	±	0.53	Bq/Kg dry	0.35 Bq/Kg dry
Soil	Tairashimokabeya, Iwaki	Sep-19	Sr90	Under Minimum Limit of Detection Bq/Kg dry	±	—	Bq/Kg dry	1.57 Bq/Kg dry
Soil	Kohata, Nihonmatsu, Fukushima	Aug-14	Sr90	Under Minimum Limit of Detection Bq/Kg dry	±	—	Bq/Kg dry	1.65 Bq/Kg dry
Soil	Hitachiota, Ibaraki	Sep-19	Sr90	Under Minimum Limit of Detection Bq/Kg dry	±	—	Bq/Kg dry	0.87 Bq/Kg dry
Soil (0-5cm deep)	Oarai, Ibaraki	Sep-19	Sr90	Under Minimum Limit of Detection Bq/Kg dry	±	—	Bq/Kg dry	0.79 Bq/Kg dry
Soil (5-10cm deep)	Oarai, Ibaraki	Sep-19	Sr90	Under Minimum Limit of Detection Bq/Kg dry	±	—	Bq/Kg dry	1.32 Bq/Kg dry

※The value below Minimum Limit of Detection does not necessary mean 0(zero)Bq/Kg

Mothers' Radiation Lab  
Fukushima