### Readings of Radiation Monitoring of Outdoor Swimming Pools at Schools, etc. in Fukushima Prefecture (Preliminary Report)

July 26, 2011 Local Nuclear Emergency Response Headquarters (Radioactivity Team) Disaster Provision Main Office of Fukushima Pref. (Nuclear Power Team)

## 1. Monitoring date Thursday June 23–Wednesday, June 28, 2011

#### 2. Monitored facilities

Number of target facilities	Number for this report
	(Those monitored from July 14 to July 20)
220	83

\* Although the number of target facilities was initially 76, the number was later changed to 220, as shown in the table, due to requests from nursery facilities, etc. (as of July 19).

#### 3. Monitoring results

Analyses of radioactive nuclides of the water in outdoor swimming pools at schools, etc.

(1) Radioactive iodine

Not detected in any of the facilities

(2) Radioactive cesium

Cs-134: Not detectable–0.90 Bq/L

Cs-137: Not detectable–0.95 Bq/L

#### 4. Handling of monitoring results

The facilities in which cesium-134 and cesium-137 were detected in this survey are swimming pools of junior high schools. Therefore, requests will be made to the entities that have established the facilities to make a judgment on the necessity of restricting the use of the facilities, based on the situation in each area, by referring to "Use of Outdoor Swimming Pools of Schools in Fukushima Prefecture" (June 16, 2011; Nuclear Safety Division of the Science and Technology Policy Bureau, and School Health Education Division of the Sports and Youth Bureau, MEXT) and "Use of Outdoor Swimming Pools of Schools in Fukushima Prefecture (Notice)" (June 21, 2011; Superintendent of the Fukushima Prefectural Board of Education).

#### (Reference)

Guideline levels of radioactive substances in bathing areas to be considered when determining whether to open a bathing area (provisional values for this summer)\*:

- Radioactive cesium (Cs-134 and Cs-137): 50Bq/L

- Radioactive iodine (I-131): 30Bq/L

The level of the radioactive cesium detected in this survey is substantially lower than the guideline level.

\* "Guidelines on Radioactive Substances in Bathing Areas" (June 24, 2011; Kansuitai No. 110624001, Notice of the Manager of the Water Environment Division, Environmental Management Bureau, Ministry of the Environment)

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#### July 26, 2011

Nuclear Emergency Response Headquarters (Radioactivity Team)

Disaster Provision Main Office of Fukushima Pref. (Nuclear Power Team)

Sports Promotion Division, Culture & Sports Bureau, Fukushima Prefectural Government

Fukushima Prefectural Board of Education (School Life Health Division)

(From July 14 to July 20)

	Municipalit	Sampling Point	Analysis results (Bq/L)									
Region	Municipant		Radio	active	iodine	Radioactive cesium						
-	У		I-131			Cs-134			Cs-137			
Ken-		Date Municipal Tominari	7/15		7/15							
poku	Date City	Elementary School	$\backslash$	$\langle$	ND	$\langle$	$\backslash$	ND	$\sim$	$\backslash$	ND	
ponu	Sukagawa	Fukushima Prefectural Seirvo		7/4	7/19	$\langle$	7/4	7/19		7/4	7/19	
Ken-	City	Ioho High School	$\backslash$	ND	ND	$\langle$	ND	ND		ND	LTD	
chu	Miharu	Fukushima Prefectural	6/20	7/4	7/19	6/20	7/4	7/19	6/20	7/4	7/19	
enu	Town	Tamura High School	0/20 ND	ND	ND	0/20 ND	ND	ND	0/20 ND	ND	ND	
	Shirakawa	Fukushima Prefectural	6/20	7/4	7/19	6/20	7/4	7/19	6/20	7/4	7/19	
	City	Shirakawa High School	0/20 ND	ND	ND	0/20 ND	ND	ND	0/20 ND	ND	ND	
	Shirakawa	Fukushima Prefectural	6/20	7/4	7/19	6/20	7/4	7/19	6/20	7/4	7/19	
	City	Shirakawa Asahi High School	0/20 ND	ND	ND	0/20 ND	ND	ND	0/20 ND	ND	ND	
	Shirakawa	Fukushima Prefectural	6/20	7/4	7/10	6/20	7/4	7/10	6/20	7/4	7/10	
Ken-	City	Shirakawa BUsiness High	0/20 ND	ND	ND	0/20 ND	ND	ND	0/20 ND	ND	ND	
nan	Tanagura	Fukushima Prefectural	6/20	7/4	7/10	6/20	7/4	7/10	6/20	7/4	7/10	
man	Town	Shumei High School	0/20 ND	ND	ND	0/20 ND	ND	ND	0/20 ND	ND	ND	
	Hanawa	Hanawa Town Katakai	6/20	7/4	7/10	6/20	7/4	7/10	ND 6/20	7/4	7/10	
	Town	Flamantamy Sabaal	0/20 ND	//4 ND	//19 ND	0/20 ND	//4 ND	//19 ND	0/20 ND	//4 ND	//19 ND	
	Hapawa	Elementary School	ND	ND	ND 7/10	ND	ND	ND	ND	ND	ND 7/10	
	Tanawa		0/20	//4	//19	6/20	//4	//19	6/20	//4	//19	
	Town	Hanawa Technical High	ND	ND 7/5	ND 7/10	ND	ND	ND	ND	ND	ND 7/10	
	Alzu	Alzu wakamatsu wumerpar	6/30	//5	//19	6/30	//5	//19	6/30	//5	//19	
	Wakamatsu	Aratate Kindergarten	ND	ND	ND T(10	ND	ND	ND	ND	ND	ND 7/10	
	Alzu	Alzu wakamatsu Municipai	6/24	7/5	7/19	6/24	7/5	7/19	6/24	1/5	7/19	
	Wakamatsu	Kawanami Kindergarten	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu	Alzu wakamatsu Municipal	6/22	7/6	7/20	6/22	7/6	7/20	6/22	7/6	7/20	
	Wakamatsu	Kakujo Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu	Alzu wakamatsu Municipal	6/22	7/6	7/20	6/22	7/6	7/20	6/22	7/6	7/20	
	Wakamatsu	Johoku Elementary Shool	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu	Alzu wakamatsu Municipal	6/22	7/6	7/20	6/22	7/6	7/20	6/22	7/6	7/20	
	Wakamatsu	GyoninElementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu	Alzu wakamatsu Municipal	6/22	7/6	7/20	6/22	7/6	7/20	6/22	7/6	7/20	
	Wakamatsu	Kinkyo Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu	Aizu Wakamatsu Municipal	6/22	7/6	7/20	6/22	7/6	7/20	6/22	7/6	7/20	
	Wakamatsu	Nisshin Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu	Aizu wakamatsu Municipal	6/22	7/6	7/20	6/22	7/6	7/20	6/22	7/6	7/20	
Aizu	Wakamatsu	Minato Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aızu	Aizu Wakamatsu Municipal	6/22	7/6	7/20	6/22	7/6	7/20	6/22	7/6	7/20	
	Wakamatsu	Ikki Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aızu	Aizu Wakamatsu Municipal	6/22	7/6	7/20	6/22	7/6	7/20	6/22	7/6	7/20	
	Wakamatsu	Matsunaga Elementary	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aızu	Aizu Wakamatsu Municipal	6/22	7/6	7/20	6/22	7/6	7/20	6/22	7/6	7/20	
	Wakamatsu	Eiwa Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu	Aizu Wakamatsu Municipal	6/22	7/6	7/20	6/22	7/6	7/20	6/22	7/6	7/20	
	Wakamatsu	Kozashi Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu	Aizu Wakamatsu Municipal	6/22	7/6	7/20	6/22	7/6	7/20	6/22	7/6	7/20	
	Wakamatsu	Monden Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu	Aizu Wakamatsu Municipal	6/22	7/6	7/20	6/22	7/6	7/20	6/22	7/6	7/20	
	Wakamatsu	Jonan Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu	Aizu Wakamatsu Municipal	6/22	7/6	7/20	6/22	7/6	7/20	6/22	7/6	7/20	
	Wakamatsu	Ohto Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu	Aızu Wakamatsu Municipal	6/22	7/6	7/20	6/22	7/6	7/20	6/22	7/6	7/20	
	Wakamatsu	Higashiyama Elementary	ND	ND	ND	ND	ND	ND	ND	ND	ND	

	Maniairalia	Sampling Point	Analysis results (Bq/L)									
Region	Municipalit		Radioactive iodine Radioactive cesium									
C	У		I-131			Cs-134			Cs-137			
	Aizu	Aizu Wakamatsu Municipal	6/22 7/6 7/20		6/22 7/6 7/20			6/22 7/6 7/20				
	Wakamatsu	Koganei Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu	Aizu Wakamatsu Municipal	6/22	7/6	7/20	6/22	7/6	7/20	6/22	7/6	7/20	
	Wakamatsu	Aratate Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu	Aizu Wakamatsu Municipal	6/21	7/5	7/19	6/21	7/5	7/19	6/21	7/5	7/19	
	Wakamatsu	Dai-ichi Junior High School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu	Aizu Wakamatsu Municipal	/	7/5	7/19	/	7/5	7/19	/	7/5	7/19	
	Wakamatsu	Dai-ni Junior High School	/	ND	ND	$\backslash$	ND	ND	/	ND	ND	
	Aizu	Aizu Wakamatsu Municipal	6/21	7/5	7/19	6/21	7/5	7/19	6/21	7/5	7/19	
	Wakamatsu	Dai-san Junior High School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu	Aizu Wakamatsu Municipal	6/21	7/5	7/19	6/21	7/5	7/19	6/21	7/5	7/19	
	Wakamatsu	Dai-yon Junior High School	ND	ND	ND 7/10	ND	ND	0.90	ND	ND	ND 7/10	
	Alzu	Alzu wakamatsu Municipal	6/21	//5	//19	6/21	//5	//19	6/21	//3	//19	
	Aizu	Dai-go Junior High School	ND	ND	ND 7/10	ND	ND	ND 7/10	ND 6/21	ND 7/5	ND 7/10	
	Wakamatau	Dei rolau Junior High School	0/21 ND	7/3 ND	//19 ND	0/21 ND	7/J ND	1/19 I TD	0/21 ND	7/3 ND	//19 ND	
	Aizu	Aizu Wakamatsu Municipal	6/21	7/5	7/19	6/21	7/5	7/19	6/21	7/5	7/19	
	Wakamatsu	Minato Junior High School	0/21 ND	ND	ND	0/21 ND	ND	ND	0/21 ND	ND	ND	
	Aizu	Aizu Wakamatsu Municipal	6/21	7/5	7/19	6/21	7/5	7/19	6/21	7/5	7/19	
	Wakamatsu	Ohto Junior High School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu	Aizu Wakamatsu Municipal	6/21	7/5	7/19	6/21	7/5	7/19	6/21	7/5	7/19	
	Wakamatsu	Kita Aizu Junior High School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu	Aizu Wakamatsu Municipal	6/21	7/5	7/19	6/21	7/5	7/19	6/21	7/5	7/19	
	Wakamatsu	Kawahigashi Junior High	ND	ND	ND	ND	ND	ND	ND	ND	0.95	
	Aizu	Fukushima Prefectural Aizu	6/20	7/4	7/19	6/20	7/4	7/19	6/20	7/4	7/19	
	Wakamatsu	High School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu	Fukushima Prefectural Aizu	6/20	7/4	7/19	6/20	7/4	7/19	6/20	7/4	7/19	
	Wakamatsu	Technical High School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu	Fukushima Prefectural Aizu	6/20	7/4	7/19	6/20	7/4	7/19	6/20	7/4	7/19	
	Wakamatsu	Gakuho High School	ND	ND	ND 7/14	ND	ND	ND	ND	ND	ND	
	Alzu Misato	Alzu Misato Towii Holigo	6/24	6/30	//14	6/24	6/30	//14	6/24	6/30	//14	
Aizu	10WII Aizu Misato	Aizu Misato Town Takada	ND 6/16	ND 6/20	ND 7/14	ND 6/16	ND 6/20	ND 7/14	ND 6/16	ND 6/20	ND 7/14	
	Town	Flementary School	0/10 ND	0/30 ND	//14 ND	0/10 ND	0/30 ND	//14 ND	0/10 ND	0/30 ND	//14 ND	
	Aizu Misato	Aizu Misato Town Miyakawa	6/16	6/30	7/14	6/16	6/30	7/14	6/16	6/30	7/14	
	Town	Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu Misato	Aizu Misato Town Hongo	6/16	6/30	7/14	6/16	6/30	7/14	6/16	6/30	7/14	
	Town	Dai-ichi Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu Misato	Aizu Misato Town Hongo	6/16	6/30	7/14	6/16	6/30	7/14	6/16	6/30	7/14	
	Town	Dai-ni Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu Misato	Aizu Misato Town Niitsuru	6/16	6/30	7/14	6/16	6/30	7/14	6/16	6/30	7/14	
	Town	Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu Misato	Aizu Misato Town Takada	6/16	6/30	7/14	6/16	6/30	7/14	6/16	6/30	7/14	
	Town	Junior High School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Aizu Misato	Aizu Misato Town Hongo	/	6/30	7/14		6/30	7/14	$\sim$	6/30	7/14	
	Town	Junior High School	$\backslash$	ND	ND		ND	ND	$\langle \rangle$	ND	ND	
	Aizu Misato	Alzu Misalo Town Milsuru		6/30	7/14		6/30	7/14		6/30	7/14	
	10Wh	Junior High School Fukushima Prefectural	6/20	ND	ND 7/10	6/20	ND	ND 7/10	6/20	ND	ND 7/10	
	Town	Ohnuma High School	0/20 ND	//4 ND	//19 ND	0/20 ND	7/4 ND	//19 ND	0/20 ND	//4 ND	//19 ND	
	Kitakata	Kitakata Municipal Dai-ichi	ND 6/17	7/1	7/15	ND 6/17	7/1	7/15	ND 6/17	7/1	7/15	
	City	Flementary School	0/17 ND	ND	ND	0/17 ND	ND	ND	ND	ND	ND	
	Kitakata	Kitakata Municipal Dai-ni	6/17	7/1	7/15	6/17	7/1	7/15	6/17	7/1	7/15	
	City	Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Kitakata	Kitakata Municipal	6/17	7/1	7/15	6/17	7/1	7/15	6/17	7/1	7/15	
	Citv	Matsuyama Elementary	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Kitakata	Kitakata Municipal Kami	6/17	7/1	7/15	6/17	7/1	7/15	6/17	7/1	7/15	
	City	Sanmiya Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Kitakata	Kitakata Municipal Dai-san	6/17	7/1	7/15	6/17	7/1	7/15	6/17	7/1	7/15	
	City	Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Kitakata	Kitakata Municipal Sekishiba	6/17	7/1	7/15	6/17	7/1	7/15	6/17	7/1	7/15	
	City	Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
	Kıtakata	Kıtakata Municipal	6/21	7/1	7/15	6/21	7/1	7/15	6/21	7/1	7/15	
	City	Kumakura Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	

		Sampling Point	Analysis results (Bq/L)									
Region Mu	Municipalit		Radio	active	iodine	Radioactive cesium						
U	У		I-131			Cs-134			Cs-137			
K	Kitakata	Kitakata Municipal	6/17	7/1	7/15	6/17	7/1	7/15	6/17	7/1	7/15	
	City	Tovokawa Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
K	Kitakata	Kitakata Municipal Keitoku	6/17	7/1	7/15	6/17	7/1	7/15	6/17	7/1	7/15	
	Citv	Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
K	Kitakata	Kitakata Municipal Shiokawa	6/17	7/1	7/15	6/17	7/1	7/15	6/17	7/1	7/15	
	City	Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
K	Kitakata	Kitakata Municipal Dojima	6/17	7/1	7/15	6/17	7/1	7/15	6/17	7/1	7/15	
	City	Elementary School	ND	ND	ND	ND	ND	LTD	ND	LTD	LTD	
K	Kitakata	Kitakata Municipal Ubado	6/17	7/1	7/15	6/17	7/1	7/15	6/17	7/1	7/15	
	City	Elementary School	ND	ND	ND	LTD	LTD	ND	LTD	1.21	ND	
K	Kitakata	Kitakata Municipal Komagata	6/17	7/1	7/15	6/17	7/1	7/15	6/17	7/1	7/15	
	City	Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
K	Kitakata	Kitakata Municipal Yamato	6/17	7/1	7/15	6/17	7/1	7/15	6/17	7/1	7/15	
	City	Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
K	Kitakata	Kitakata Municipal Takasato	6/17	7/1	7/15	6/17	7/1	7/15	6/17	7/1	7/15	
	City	Elementary School	ND	ND	ND	ND	ND	ND	ND	ND	LTD	
K	Kitakata	Kitakata Municipal Atsushio	/	7/1	7/15	/	7/1	7/15	/	7/1	7/15	
	City	Elementary School	/	ND	ND	/	ND	ND	/	ND	ND	
K	Kitakata	Kitakata Municipal Kano	/	7/1	7/15	/	7/1	7/15	/	7/1	7/15	
	City	Elementary School	/	ND	ND	/	ND	ND	/	ND	ND	
K	Kitakata	Kitakata Municipal Dai-ichi		7/5	7/19	/	7/5	7/19	/	7/5	7/19	
	City	Junior High School		ND	ND	/	ND	ND	/	ND	ND	
K	Kitakata	Kitakata Municipal Dai-ni	6/21	7/5	7/19	6/21	7/5	7/19	6/21	7/5	7/19	
	City	Junior High School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
K	Kitakata	Kitakata Municipal Dai-san	/	7/5	7/19	$\backslash$	7/5	7/19	7/5	7/5	7/19	
Aizu	City	Junior High School	$\backslash$	ND	ND	/	ND	ND	ND	ND	ND	
K K	Kitakata	Kitakata Municipal Kaihoku	$\backslash$	7/5	7/19	$\backslash$	7/5	7/19	7/5	7/5	7/19	
	City	Junior High School		ND	ND	/	ND	ND	ND	ND	ND	
K	Kitakata	Kitakata Municipal Shiokawa	6/21	7/5	7/19	6/21	7/5	7/19	6/21	7/5	7/19	
	City	Junior High School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
K	Sitakata	Kitakata Municipal Yamato	6/21	7/5	7/19	6/21	7/5	7/19	6/21	7/5	7/19	
	City	Junior High School	ND	ND	ND	ND	ND	ND	ND	ND	LTD	
K	Sitakata	Kitakata Municipal Takasato	6/21	7/5	7/19	6/21	7/5	7/19	6/21	7/5	7/19	
	City	Junior High School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
K	Sitakata	Fukushima Prefectural	6/20	7/4	7/19	6/20	7/4	7/19	6/20	7/4	7/19	
T	City	Kitakata High School	ND	ND	ND	ND	ND	ND	ND	ND	ND	
r.		Fukushima Prefectural	6/20	7/4	7/19	6/20	7/4	7/19	6/20	7/4	7/19	
- E	City	Kitakatatooh High School	ND	ND	ND 7/10	ND	ND	ND 7/10	ND	ND	ND 7/10	
L L			6/27	//4	//19	6/27	//4	//19	6/27	//4	//19	
Ni	City	Nishi Aizu Town Shingo	ND	ND	ND 7/14	ND	ND	ND	ND	ND	ND 7/14	
141		Flammater Salara	0/10 ND	0/30	//14	0/10	0/30	//14	0/10	0/30	//14	
Ni	10Wn	Nichi Aizu Town Okugowa	ND	ND C/20	ND	ND	ND C/20	ND	ND	ND C/20	ND	
111	Taum	Flamentary School	0/10	0/30	//14	0/10	0/30	//14	0/10	0/30	//14	
NI;	10WII	Nishi Aizu Town Nozawa	ND 6/16	ND	ND 7/14	ND 6/16	ND	ND 7/14	ND	ND	ND 7/14	
181		Elementery School	0/10 ND	0/3U	//14	0/10 ND	0/30 ND	//14	0/10 ND	0/3U	//14	
NG	10WII jahi Aizu	Nishi Aizu Town Onomoto	IND 6/16	IND 6/20	ND 7/14	ND 6/16	ND 6/20	ND 7/14	IND 6/16	IND 6/20	ND 7/14	
111		Elementery School	0/10 ND	0/30 ND	//14	0/10 ND	0/30 ND	//14 ND	0/10 ND	0/30 ND	//14	
Ni	iahi Aizu	Nishi Aizu Town Muraoka	1ND 6/16	6/20	7/14	6/16	6/20	7/14	6/16	6/20	7/14	
111	Town	Flementary School	0/10 ND	0/30 ND	ND	0/10 ND	0/30 ND	ND	0/10 ND	0/30 ND	ND	
Ni	iahi Aizu	Nishi Aizu Town Savuri Park		6/27	7/14		6/27	7/14		6/27	7/14	
	Town	Swimming Pool	$\backslash$	ND	ND	$\sim$	ND	ND	$\sim$	ND	ND	

ND: Not Detectable LTD: Less than detectable



資源エネルギー庁「原子力2002」をもとに文部科学省において作成

※ X線、γ線では 1

# Radiation in Daily-life





% It is 1 in case of X ray and  $\gamma$  ray. MEXT makes this, based on "Nuclear power 2002" made by Agency of Natural Resources and Energy.