

Basic Survey (Preliminary Report)

1. Response Rates

The overall effective response rate to the Basic Survey (radiation dose estimates), which targeted the entire population of Fukushima Prefecture, was 23.1% as of 5 December 2012. The response rate in the preceding survey, which targeted high-priority areas (Yamakiya of Kawamata, Namie and Iitate) was 56.2%. Regional variations in response rates were observed in the full-scale survey, and the average response rate was 22.6%.

2. Radiation Dose Estimates

External doses have been estimated for 361,906 respondents (76.2%) as of 5 December 2012 (Table 1).

Table 1. Response Rates to the Basic Survey		As of 5 December 2012						
		Target population	Response	Response rates	Completed dose estimation	Proportion	Delivered results	Proportion
		a	b	c=b/a	d	e=d/b	h	i=h/b
Preceding Survey	Namie, Iitate and Yamakiya of Kawamata	29,044	16,333	56.2%	15,895	97.3%	15,844	97.0%
Full-scale Survey	Kempoku	504,291	131,680	26.1%	103,198	78.4%	59,749	45.4%
	Kenchu	560,116	114,610	20.5%	88,877	77.5%	47,059	41.1%
	Kennan	152,776	26,592	17.4%	20,827	78.3%	11,804	44.4%
	Aizu	267,696	40,109	15.0%	26,197	65.3%	16,916	42.2%
	Minami-aizu	30,831	4,124	13.4%	3,046	73.9%	2,789	67.6%
	Soso	168,409	68,440	40.6%	47,934	70.0%	37,256	54.4%
	Iwaki	343,831	73,140	21.3%	55,932	76.5%	4,362	6.0%
	Subtotal	2,027,950	458,695	22.6%	346,011	75.4%	179,935	39.2%
Total		2,056,994	475,028	23.1%	361,906	76.2%	195,779	41.2%

3. Results of Radiation Dose Estimates

Radiation doses for a total of 361,906 residents have been estimated to date. The results of radiation dose estimates for 354,736 respondents (excluding radiation workers) suggested that the doses for more than 90% of the respondents were <2 mSv in the Kempoku and Kenchu areas (Fig. 1). The doses for approximately 91% of the respondents in the Kennan area and more than 99% of those in Aizu and Minami-aizu were <1 mSv. The estimated doses for 78% of respondents residing in Soso area as well as for more than 99% of those in Iwaki district were also <1 mSv (Table 2).

Fig 1. Fukushima Prefecture Area Map

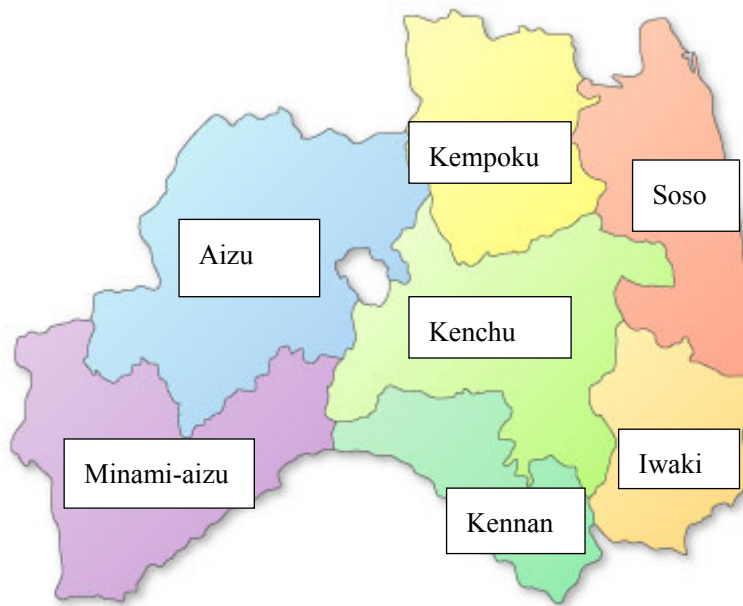


Table 2. Estimated Radiation Doses in the first four months (Preceding Survey and Full-scale Survey)																					
As of 5 December 2012																					
Effective Dose (mSv)	Total			Excluding Radiation Workers			By Area (Excluding Radiation Workers)														
	Previous (-Oct 2012)	Additional (Nov-Dec 2012)	Total	Previous (-Oct 2012)	Additional (Nov-Dec 2012)	Total	Kempoku including Kawamata/Yamaki	Kenchu		Kennan		Aizu		Minami-Aizu		Soso including Namie and Itate		Iwaki			
	A	B	C=A+B	D	E	F=D+E	ya														
<1	157,102	82,487	239,589	153,631	81,298	234,929	33,751	32.9%	52,663	59.9%	18,814	91.3%	25,839	99.7%	3,002	99.4%	46,387	77.8%	54,473	99.3%	
1-2	64,034	39,487	103,521	62,754	38,984	101,738	59,325	57.8%	30,543	34.7%	1,780	8.6%	84	0.3%	19	0.6%	9,598	16.1%	389	0.7%	
2-3	9,941	5,791	15,732	9,731	5,733	15,464	9,263	9.0%	4,544	5.2%	8	0.0%	0	—	0	—	1,631	2.7%	18	0.0%	
3-4	975	203	1,178	920	202	1,122	317	0.3%	199	0.2%	0	—	1	0.0%	0	—	602	1.0%	3	0.0%	
4-5	552	5	557	523	4	527	34	0.0%	3	0.0%	0	—	0	—	0	—	490	0.8%	0	—	
5-6	428	6	434	393	0	393	18	0.0%	1	0.0%	0	—	0	—	0	—	374	0.6%	0	—	
6-7	242	2	244	218	2	220	5	0.0%	0	—	0	—	0	—	0	—	215	0.4%	0	—	
7-8	131	2	133	109	1	110	1	0.0%	0	—	0	—	0	—	0	—	109	0.2%	0	—	
8-9	100	0	100	76	0	76	0	—	0	—	0	—	0	—	0	—	76	0.1%	0	—	
9-10	55	2	57	39	0	39	0	—	0	—	0	—	0	—	0	—	39	0.1%	0	—	
10-11	59	1	60	40	0	40	0	—	0	—	0	—	0	—	0	—	40	0.1%	0	—	
11-12	38	0	38	29	0	29	1	0.0%	0	—	0	—	0	—	0	—	28	0.0%	0	—	
12-13	32	2	34	16	0	16	0	—	0	—	0	—	0	—	0	—	16	0.0%	0	—	
13-14	24	3	27	11	0	11	0	—	0	—	0	—	0	—	0	—	11	0.0%	0	—	
14-15	23	2	25	10	0	10	0	—	0	—	0	—	0	—	0	—	10	0.0%	0	—	
>15	165	12	177	12	0	12	0	—	0	—	0	—	0	—	0	—	12	0.0%	0	—	
Total	233,901	128,005	361,906	228,512	126,224	354,736	102,715	100%	87,953	100%	20,602	100%	25,924	100%	3,021	100%	59,638	100%	54,883	100%	
Max	55 mSv	35 mSv		25 mSv	7.0 mSv		11 mSv		5.3 mSv		2.5 mSv		3.6 mSv		1.6 mSv		25 mSv		3.9 mSv		

As of 5 December 2012

As of 5 December 2012

Estimated radiation dose by age group in the first four months (excluding radiation workers)

Effective Dose (mSv)	Age as of 11 March 2011									Total
	0 - 9	10 - 19	20 - 29	30 - 39	40 - 49	50 - 59	60 - 69	70 - 79	80 -	
<1	26,279	22,139	16,815	26,992	22,855	29,004	38,486	30,877	21,482	234,929
1-2	11,951	10,395	7,097	13,181	12,323	14,243	16,091	10,408	6,049	101,738
2-3	2,909	1,586	736	1,628	1,570	2,147	2,612	1,564	712	15,464
3-4	141	104	65	114	115	195	178	142	68	1,122
4-5	22	53	36	38	77	101	83	74	43	527
5-6	17	18	22	33	46	91	81	59	26	393
6-7	4	7	10	17	27	43	55	38	19	220
7-8	2	7	6	6	13	31	19	17	9	110
8-9	1	6	3	4	8	17	15	10	12	76
9-10	0	0	1	1	4	11	11	7	4	39
10-11	0	1	1	1	9	12	6	7	3	40
11-12	0	0	0	2	0	8	10	8	1	29
12-13	0	0	0	0	1	6	5	3	1	16
13-14	0	0	1	1	0	6	3	0	0	11
14-15	0	0	0	0	0	5	4	1	0	10
15<	0	1	0	0	2	2	6	0	1	12
Total	41,326	34,317	24,793	42,018	37,050	45,922	57,665	43,215	28,430	354,736

As of 5 December 2012

Estimated external radiation dose by sex in the first four months (excluding radiation workers)

Effective Dose (mSv)	By sex				Total	%
	Male	%	Female	%		
<1	102,054	64.6	132,875	67.5	234,929	66.2
1-2	46,116	29.2	55,622	28.3	101,738	28.7
2-3	8,234	5.2	7,230	3.7	15,464	4.4
3-4	673	0.4	449	0.2	1,122	0.3
4-5	282	0.2	245	0.1	527	0.1
5-6	200	0.1	193	0.1	393	0.1
6-7	125	0.1	95	0.0	220	0.1
7-8	60	0.0	50	0.0	110	0.0
8-9	40	0.0	36	0.0	76	0.0
9-10	24	0.0	15	0.0	39	0.0
10-11	28	0.0	12	0.0	40	0.0
11-12	17	0.0	12	0.0	29	0.0
12-13	8	0.0	8	0.0	16	0.0
13-14	8	0.0	3	0.0	11	0.0
14-15	6	0.0	4	0.0	10	0.0
15<	10	0.0	2	0.0	12	0.0
Total	157,885	100.0	196,851	100.0	354,736	100.0