

"Damage, Living Environment, and Reconstruction Under the Great East Japan Earthquake"

## The 3rd Survey of Nuclear Disaster Evacuees from Futaba, Fukushima, Summary of Results 2016

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### 1—Basic Information

Surveys on the damage, living environment and reconstruction under the Great East Japan Earthquake have been conducted via a research project called the "International comparison of reconstruction of living infrastructure from disasters" (Yasuyuki Sawada, Professor, Graduate School of Economics, The University of Tokyo; Keiko Iwasaki, Researcher, NLI Research Institute) of the University of Tokyo since 2013. The surveys target all household heads of Futaba in Fukushima prefecture, where all residents were forced to evacuate due to the nuclear power plant accident caused by the Great East Japan Earthquake that occurred in 2011. Surveys were conducted in July 2013, December 2014, July 2016, December 2017 and July 2019. This paper reports the summary of results of the third survey conducted in July 2016.<sup>1</sup>

Table 1. Basic Information

Target	All household heads of Futaba, Fukushima
Number of questionnaires distributed	2,900
Distribution date of questionnaires	July 1, 2016
Collection period of questionnaires	July 1, 2016 - July 22, 2016
Number of responses	499
Response rate	About 17%

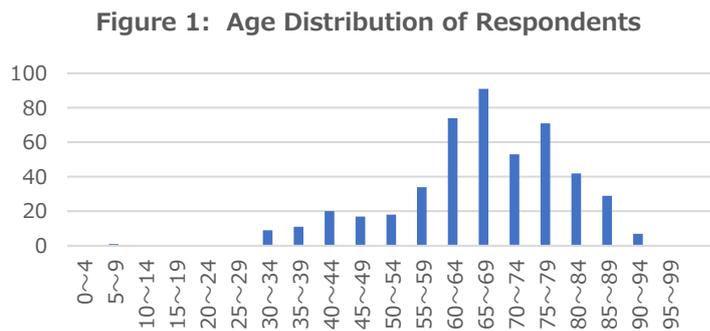
The survey includes questions about basic attributes such as age and gender, as well as questions related to connections with others (social capital) and health conditions (see the appendix at the end of this report for all the questions included in the survey). The questionnaires were distributed to all households of Futaba (about 2,900 households) that receive the regular town mail from Futaba. We received responses from 499 Futaba residents who had evacuated nationwide (the response rate was about 17%).

The survey targeted heads of households and Figures 1 and 2 show the distribution of age and gender of the

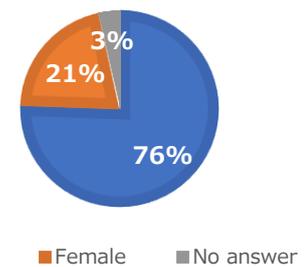
<sup>1</sup> This research was supported by the following research grants.

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respondents. As we can see from these figures, compared to the age and gender distribution reported in the national census, the age distribution of the respondents is left-skewed, with the majority of respondents in their 60s. The gender distribution shows that the majority of respondents are male. In addition, since the survey was conducted after the tremendous disaster, it is possible that the distributions of the respondents' characteristics are significantly different from those of general questionnaire surveys. Therefore, it should be noted that the results of this survey do not necessarily indicate the general trend of Futaba residents.



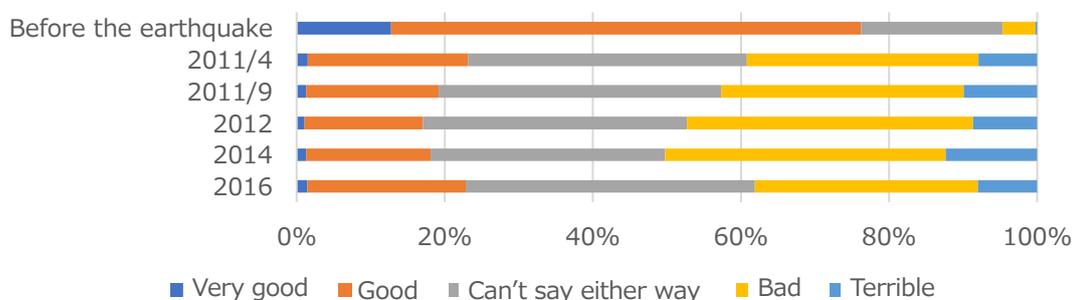
**Figure 2: Gender Distribution of Respondents**



## 2—Health Condition

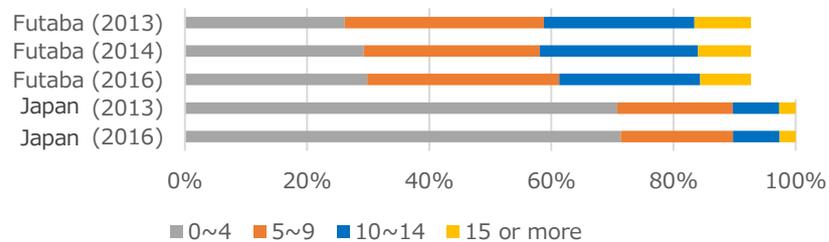
We included a question asking subjective health status before the disaster and at five different moments after the disaster (April 2011, September 2011, 2012, 2014, 2016) retrospectively. As shown in Figure 3, many rated their own health condition before the earthquake as "good" or "very good," while many rated their health status after the disaster as "bad," "terrible" or "can't say either way." As to the change in health status after the earthquake, those who rated their health status as "bad" or "terrible" had been increasing from 2011 to 2014. However, currently in 2016, 5 years after the earthquake, the portion of those who rated their health as "good" or "very good" started to increase slightly.

**Figure 3: Change in Subjective Health Status**



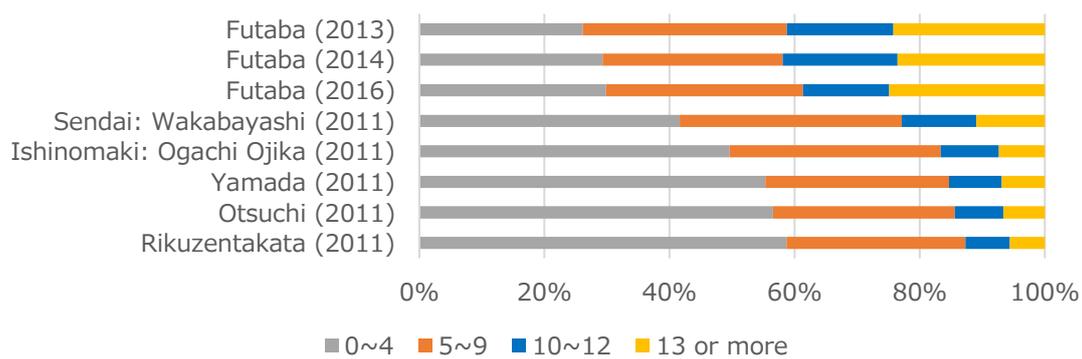
As for mental health, the distribution of K6 score, a clinically validated index for diagnosing the overall stress state, shown in Figure 4 indicates that K6 scores of Futaba residents are much higher compared to those for Japan. (K6 is an internationally used measurement for general mental health status that consists of six questions. The higher the total score, the more likely the respondent is stressed.)

**Figure 4: Distribution of K6 Scores for Futaba and Japan**



(Note) K6 score indicates the level of psychological distress, and the higher the value, the higher the level of stress.  
 (Source) Futaba: Past research by the University of Tokyo's "International comparison of reconstruction of living infrastructure from disasters" project. Japan: Comprehensive Survey of Living Conditions (2013, 2016)

**Figure 5: Distribution of K6 Score for Futaba and Other Disaster Affected Areas**



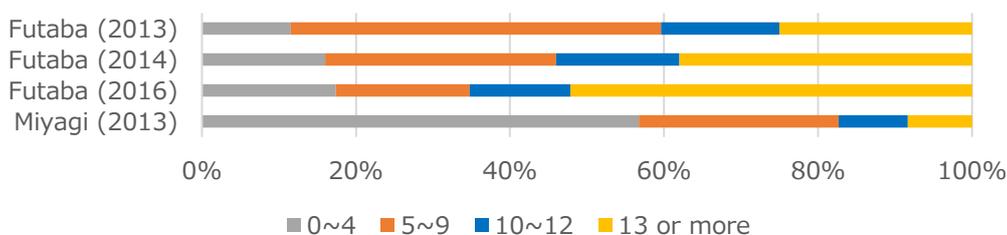
(Note) K6 score indicates the level of psychological distress, and the higher the value, the higher the level of stress.  
 (Source) Futaba: Past research by the University of Tokyo's "International comparison of reconstruction of living infrastructure from disasters" project. Other regions: Survey on the Health of Great East Japan Earthquake Victims (Research Representative: Kenji Hayashi) 2012

K6 score distributions have been reported in disaster affected areas other than Futaba by the Government and local governments as well. As shown in Figure 5, K6 scores of Futaba residents tend to be higher than those of residents in other disaster affected areas, such as Wakabayashi area of Sendai and Ogatsu and Ojika area of Ishinomaki where the damages caused by the tsunami were tremendous. We believe that manmade disaster could have more serious and longterm impacts on victims' mental health status because of their unique characteristics including uncertainty of the future. Furthermore, while subjective health status shows recovery trend after 5 years from the disaster, the K6 score distribution hardly shows the recovery trend, indicating that the mental health recovery of Futaba may take a very long time.

In addition, comparing the K6 score of residents of temporary shelters from Futaba and Miyagi, K6 score of Futaba residents who live in temporary shelters tend to have a higher K6 score (see Figure 6). Furthermore, the

K6 score of Futaba residents who live in temporary shelters have been increasing year by year. There are two possible reasons for this. First, the prolonged stay in temporary shelters could have been putting stress on the residents. Second, it could have been difficult for those under high stress to move out from the temporary shelters to other residences. In any case, this suggests the importance of continuous mental health support for those who live in temporary shelters for a long time.

Figure 6. K6 for residents of temporary housing



(Note) K6 score indicates the degree of psychological stress, and the higher the value, the higher the degree of stress.  
 (Source) Futaba: Past research by the University of Tokyo's "International comparison of reconstruction of living infrastructure from disasters" project

However, the results of this survey do not necessarily apply to all residents of Futaba, and a high K6 score does not necessarily mean that one has a mental disorder. Please note that the purpose of our survey is to provide policy implications to the Government or other administrative agencies.

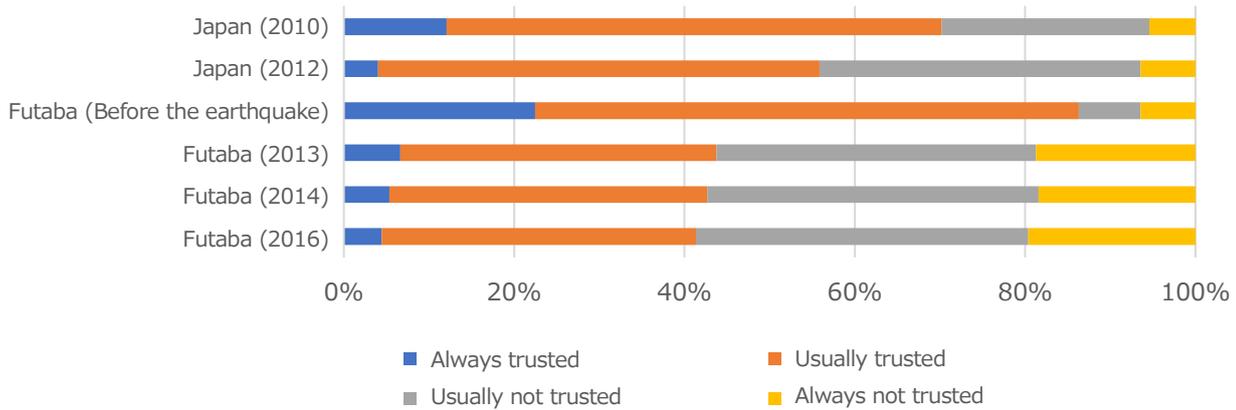
### 3—Change in Social Capital

Social capital refers to trusting relationships and networks, and is sometimes referred to as "kizuna" in Japanese. Social capital is getting attention as a key notion to achieve successful disaster recovery and has been one of the major focuses of our study. In previous studies, we showed social capital would play an important role in maintaining mental health after the disaster, while it might have been weakened by the disaster among Futaba residents.

There are several indicators that are commonly used to measure social capital, but we focused on three items which are the level of "generalized trust", "frequency of mutual assistance with neighbors" and "trust in neighbors". As shown in Figure 7 to 9, all of these three indicators show that social capital has weakened because of the disaster and recovery trends cannot be observed so far. Moreover, "generalized trust" shows a gradual declining trend can be observed during the three years period. These trends indicate that it will take a very long time for social capital to recover, and we believe it is important to continue to monitor these changes over the long term.

**Figure 7: Generalized Trust (GSS Trust)**

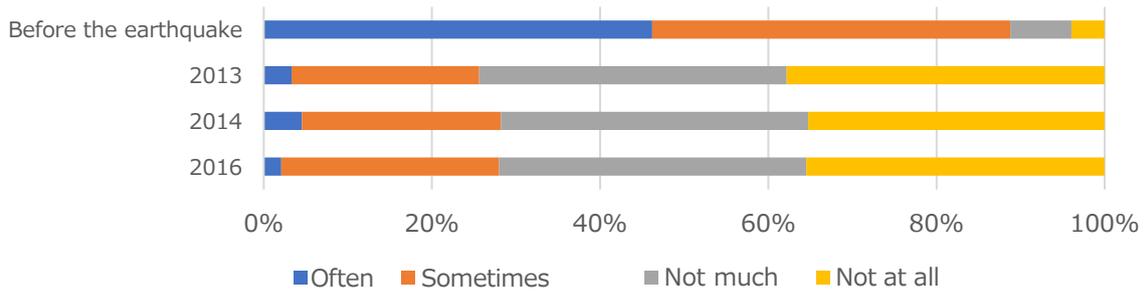
"Generally speaking, would you say that most people can be trusted or that you can't be too careful in dealing with people"



(Source) Japan: The Japanese General Social Surveys 2010 and 2012 ; Futaba: Past research conducted by the University of Tokyo's "International comparison of reconstruction of living infrastructure from disasters" project

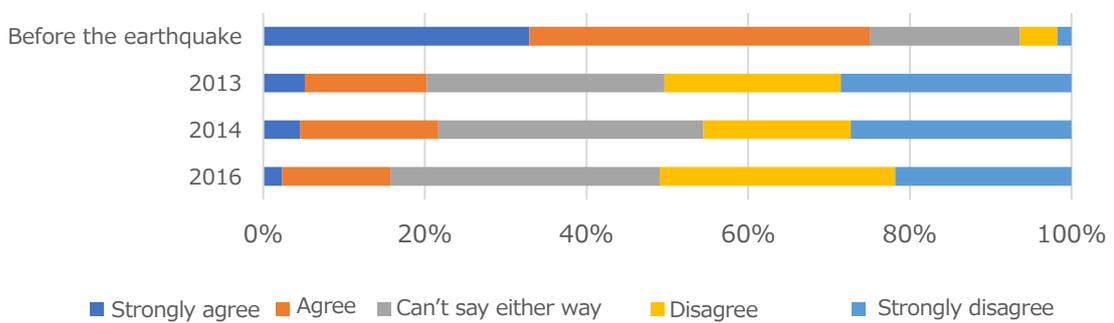
**Figure 8: Frequency of Mutual Assistance with Neighbors**

"How often do you help or receive help from your neighbors? "



**Figure 9: Trust in Neighbors**

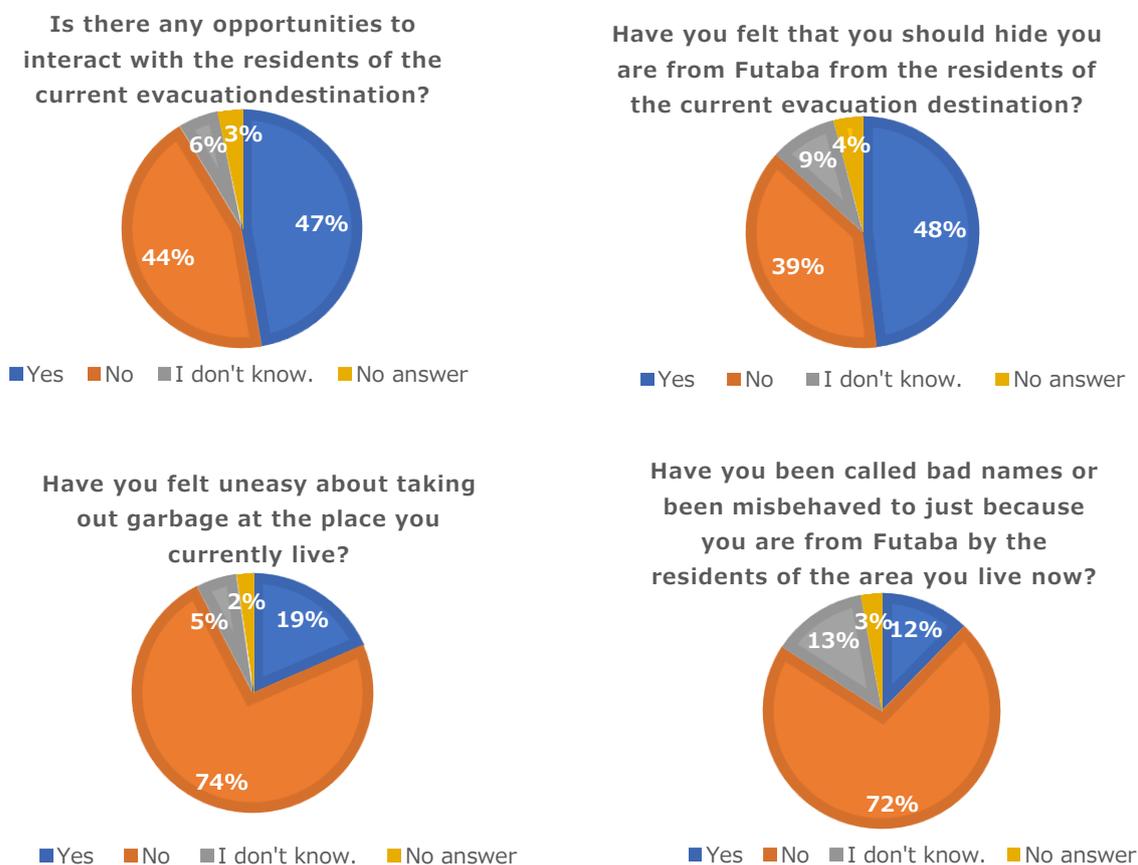
"My neighbors help me when I'm in trouble."



#### 4—Building Relationships with Residents at Evacuation Destinations

Some Futaba residents had told us that building a new social relationship with residents in evacuation destinations is a challenge that needs to be addressed in prolonged evacuation periods, in which the policies and understandings of residents of evacuation destinations vary widely. To capture this challenge, the questions on relationships with residents of the evacuation destinations were included in the 2016 questionnaire. As shown in Figure 10, about 44% of the residents do not have any opportunities to interact with residents at the evacuation destinations, about 48% of the residents have felt that it is better to conceal that they are from Futaba, about 19% of the residents have felt uneasy about taking out the garbage, and about 12% of the residents have been called bad names or been misbehaved to because they are from Futaba.

Figure 10: Relationships with Residents in Evacuation Destinations



Furthermore, we found that those who do not have any opportunities to interact with the residents of the current evacuation destinations, those who have felt uneasy about taking out garbage, and those who have been called bad names or been misbehaved because they are from Futaba tend to have high K6 score (high stress). This implies the importance of the receptive attitudes of residents in the evacuation destinations and successful relationship

buildings between evacuees and residents in the evacuation destinations to help mental health recovery of the evacuees. In addition, we have conducted an analysis comparing mental health status of evacuees who live in Fukushima and those who live outside of Fukushima, but have not found large difference so far.

## **5— Summary of Findings from the Three Rounds of Surveys**

- (1) Futaba residents could be under more serious psychological distress than those in other disaster affected areas. More than five years have passed since the Great East Japan Earthquake, and their mental health status has hardly recovered.
- (2) The disaster has weakened the social capital of Futaba residents, and recovery may take a very long time.
- (3) Keeping in touch with friends from pre-disaster times as well as participating in hobbies and volunteer activities after the disaster may help people maintain good mental health.
- (4) As to changes in income, health status, and living space caused by the disaster, we find that the greater the extent of decrease or deterioration is, the greater the degree of decline in individual well-being tends to be.
- (5) The receptive attitudes of residents in the evacuation destinations and successful relationship buildings between the evacuees and residents in evacuation destinations can help to achieve mental health recovery of the evacuees.

These results have been presented at international and domestic academic conferences. In addition, these results have been published in international academic journals. We intend to continue our analysis and contribute to the improvement of disaster preparation/rehabilitation policies.

Our survey results are based on aggregates and analyses of responses from approximately 17% of the households of Futaba and do not represent all Futaba residents. Since the survey was conducted after a major disaster, the characteristics of respondents may be very different from general surveys and there is a possibility of an overestimation in our results due to the deterioration of physical and mental health conditions. Therefore, special caution is required in interpreting the results, and any definitive judgments based solely on these findings should be avoided.

## Appendix: Summary Tables

Who is filling out this questionnaire?

	Freq	%
Household head	357	71.54
Spouse	77	15.97
Other	15	3.01
No answer	50	10.02
Total	499	100.00

1. Please tell us about the household head.

(1) Basic information of the household head

A) Average age: 67 yrs Oldest: 93 yrs Youngest: 6 yrs

B) Gender distribution, Male: 75.6% Female: 21.0%

No response: 3.4%

C) Current prefecture

We received answers from all over Japan. Thank you.

(The aggregate result is omitted.)

(2) Current dwelling type

	Freq	%
Temporary shelter	26	5.21
Post disaster public-funded rental accommodation (deemed temporary shelter)	51	10.22
Public reconstruction housing	25	5.01
Rented	39	7.82
Owned house (different from the one before the earthquake)	245	49.10
Relative's house	18	3.61
Company housing	5	1.00
Other	65	13.03
No answer	25	5.01
Total	499	100.00

(3) Size of the land and living space of your current residence

Land size	Freq	%
0 ~ 100 square meters	24	4.81
100 ~ 200 square meters	55	11.02
200 ~ 300 square meters	61	12.22
300 square meters ~	142	28.46
No answer	217	43.49
Total	499	100.00

Living space size	Freq	%
0 ~ 40 square meters	42	8.42
40 ~ 80 square meters	74	14.83
80 ~ 120 square meters	88	17.64
120 square meters ~	164	32.87
No answer	131	26.25
Total	499	100.00

(4) Dwelling type before the Great East Japan Earthquake

	Freq	%
Owned house (detached house)	393	78.76
Owned house (condominium)	3	0.60
Rental (detached house)	10	2.00
Rental (condominium)	0	0.00
Rental (apartment)	14	2.81
Public housing	19	3.81
Company housing	16	3.21
Relatives' house	3	0.60
Other	8	1.60
No answer	33	6.61
Total	499	100.00

(5) Size of the land and living space of residence before the Great East Japan Earthquake

Land size	Freq	%
0 ~ 100 square meters	9	1.80
100 ~ 200 square meters	22	4.41
200 ~ 300 square meters	34	6.81
300 square meters ~	308	61.72
No answer	126	25.25
Total	499	100.00

Living space size	Freq	%
0 ~ 40 square meters	13	2.61
40 ~ 80 square meters	26	5.21
80 ~ 120 square meters	30	6.01
120 square meters ~	332	66.53
No answer	98	19.64
Total	499	100.00

(6) Damage to home in Futaba (Not including the radiation effect)

	Freq	%
Completely destroyed	35	7.01
Partial collapse	81	16.23
Partial destruction	189	37.88
No major damage	153	30.66
Other	15	3.01
No answer	26	5.21
Total	499	100.00

(7) Academic history of the household head

	Freq	%
High school	233	46.69
Vocational school	61	12.22
Junior college	16	3.21
University	79	15.83
Other	77	15.43
No answer	33	6.61
Total	499	100.00

(8) Family and relatives of the household head before and after the disaster.

Average number of family members  
Current: 2.6 Before the disaster: 3.3

Do you have family members under 18 years old?

	Recently		Before the disaster	
	Freq	%	Freq	%
Yes	96	19.24	134	26.85
No	339	67.94	276	82.16
No answer	64	12.83	89	17.84
Total	499	100.00	499	10.00

Do you have any pets?

	Recently		Before the disaster	
	Freq	%	Freq	%
Yes	114	22.85	170	34.07
No	341	68.34	233	46.69
No answer	44	8.82	96	19.24
Total	499	100.00	499	10.00

Among the family members with whom you lived before the Great East Japan Earthquake, are there any family members who died after the earthquake?

	Freq	%
Yes	111	22.24
No	330	66.13
No answer	58	11.62
Total	499	100.00

(9) How is the current health of the household head compared to the condition before the disaster?

	Freq	%
Much better	1	0.20
Better	14	2.81
Remains unchanged	153	30.66
Worse	255	51.10
Much worse	57	11.42
No answer	19	3.81
Total	499	100.00

(10) Has your weight changed after the disaster?

	Freq	%
Increased	61	12.22
Slightly increased	117	23.45
Remains unchanged	124	24.85
Slightly decreased	107	21.44
Decreased	73	14.63
No answer	17	3.41
Total	499	100.00

(11) Due to the environment change, it has become difficult to cook at home for many evacuees, and there are concerns about health hazards for them. Please tell us the frequency of eating out before and after the disaster.

Before the earthquake: average 0.7 times/week  
Currently: average 1.4 times/week

(12) Health concerns have been raised for the limitation of activities of disaster victims due to the inconvenience of transportation.

A) The number of cars owned by your family members living together before and after the earthquake  
Average before the earthquake: 2.2, Current average: 1.7

B) Did you buy a car after the disaster?

	Freq	%
Yes	321	64.33
No	143	28.66
No answer	35	7.01
Total	499	100.00

(13) The following questions ask about how you have been feeling during the past 30 days. For each question, please circle the number that best describes how often you had this feeling.

During the past 30 days, about how often did you feel ... (Point criteria)	Non	A	Some	Most	All
	e of the time	little of the time	of the time	of the time	of the time
...nervous?	0	1	2	3	4
...hopeless?	0	1	2	3	4
...restless or fidgety?	0	1	2	3	4
...so depressed that nothing could cheer you up?	0	1	2	3	4
...that everything was an effort?	0	1	2	3	4
...worthless?	0	1	2	3	4

Total points (K6 score) distribution:

	Freq	%
0 ~ 4 points	132	26.45
5 ~ 8 points	116	23.25
9 ~ 12 points	84	16.83
13 ~ 16 points	60	12.02
17 points or more	50	10.02
No answer	57	11.42
Total	499	100.00

(14) When did you (household head) do your summer homework when you were in junior high school?

	Freq	%
In the beginning of summer vacation	58	11.62
Rather toward the beginning	107	21.44
Almost equally every day	60	12.02
Rather toward the end	160	32.06
At the end	64	12.83
No answer	50	10.02
Total	499	100.00

(15) (In recent years, research on "happiness" has been progressing and we ask you a question based on such existing research. However, the answer is optional. ) How happy are you (household head) now? If we set "Very happy" at 10 and "miserable" at 0, what do you think would be your score?

	Freq	%
0 (Miserable)	22	4.41
1	19	3.81
2	23	4.61
3	66	13.23
4	45	9.02
5	130	26.05
6	34	6.81
7	50	10.02
8	42	8.42
9	8	1.60
10 (Very happy)	14	2.81
No answer	46	9.22
Total	499	100.00

## 2. Relationship with neighbors

(1) Which area of Futaba did the household head live before the disaster?

	Freq	%		Freq	%
Ishiguma	3	0.60	Konokusa	17	3.41
Yamada	33	6.61	Hosoya	14	2.81
Matsuzako	0	0.00	Shimohadori	8	1.60
Mizusawa	4	0.80	Nakata	5	1.00
Mesaku	4	0.80	Nagatsuka	136	27.25
Koriyama	32	6.41	Morotake	4	0.80
Kamihaatori	4	0.80	Nakahama	8	1.60
Niiyama	110	22.04	Nakano	8	1.60
Matsukura	4	0.80	Maeda	53	10.62
Terasawa	10	2.00	Other	5	1.00
Shibukawa	4	0.80	No answer	33	6.61
			Total	499	100.00

(2) How often do you help or receive help from your neighbors before and after the disaster?

	Recently		Before the disaster	
	Freq	%	Freq	%
Quite often	10	2.00	220	44.09
Moderately	124	24.85	214	42.89
Not much	175	35.07	33	6.61
None	170	34.07	15	3.01
No answer	20	3.01	17	3.41
Total	499	100.00	499	100.00

(3) My neighbors help me when I'm in trouble.

	Recently		Before the disaster	
	Freq	%	Freq	%
Strongly agree	11	2.20	150	30.06
Agree	64	12.83	212	42.48
Can't say either	159	31.86	90	18.04
Don't agree	139	27.86	12	2.40
Not at all	104	20.84	14	2.81
No answer	22	4.41	21	4.21
Total	499	100.00	499	100.00

(4) Life style before and after the disaster

I often go out and leave the door unlocked.

	Recently		Before the disaster	
	Freq	%	Freq	%
Yes	25	5.01	257	51.50
No	441	88.38	223	44.69
Don't know	6	1.20	1	0.20
No answer	27	5.41	18	3.61
Total	499	100.00	499	100.00

I often lend money or goods to friends.

	Recently		Before the disaster	
	Freq	%	Freq	%
Yes	21	4.21	163	32.67
No	431	86.37	296	59.32
Don't know	16	3.21	14	2.81
No answer	31	6.21	26	5.21
Total	499	100.00	499	100.00

I think most people try to be fair.

	Recently		Before the disaster	
	Freq	%	Freq	%
Yes	158	31.66	300	60.12
No	107	21.44	53	10.62
Don't know	196	39.28	114	22.85
No answer	38	7.62	32	6.41
Total	499	100.00	499	100.00

I think that I am trusted by others.

	Recently		Before the disaster	
	Freq	%	Freq	%
Yes	108	21.64	286	57.31
No	65	13.03	28	5.61
Don't know	291	58.32	156	31.26
No answer	35	7.01	29	5.81
Total	499	100.00	499	100.00

(5) Participation in volunteer and hobby gatherings

A) I sometimes participate in volunteer activities.

	Freq	%
Yes	105	21.04
No	375	75.15
No answer	19	3.81
Total	499	100.00

B) I sometimes participate in hobby activities.

	Freq	%
Yes	163	32.67
No	312	62.53
No answer	24	4.81
Total	499	100.00

· Average number of non-family members to exchange greetings in a day

	Freq	%
0	60	12.02
1~3	144	28.86
3~6	143	28.66
6~10	24	4.81
More than 10	84	16.83
無回答	44	8.82
合計	499	100.00

(6) Generally speaking, would you say that most people can be trusted or you can't be too careful in dealing with people?

	Recently		Before the disaster	
	Freq	%	Freq	%
Always trusted	21	4.21	110	22.04
Usually trusted	175	35.07	268	53.71
Usually not trusted	190	38.08	81	16.23
Always not trusted	93	18.64	19	3.81
No answer	20	4.01	21	4.21
Total	499	100.00	499	100.00

(7) Neighbors are trustable.

	Recently		Before the disaster	
	Freq	%	Freq	%
Strongly agree	15	3.01	76	15.23
Agree	248	49.70	318	63.73
Don't agree	166	33.27	58	11.62
Not at all	40	8.02	11	2.20
No answer	30	6.01	36	7.21
Total	499	100.00	499	100.00

(8) The national government is trustable.

	Recently		Before the disaster	
	Freq	%	Freq	%
Strongly agree	5	1.00	10	2.00
Agree	81	16.23	164	32.87
Don't agree	233	46.69	218	43.69
Not at all	149	29.86	70	14.03
No answer	31	6.21	37	7.41
Total	499	100.00	499	100.00

(9) Do you have any opportunities to interact with the residents of your current evacuation destination?

	Freq	%
Yes	236	47.29
No	220	44.09
Don't know	27	5.41
No answer	16	3.21
Total	499	100.00

(10) Have you felt that you should hide you are a Futaba resident from residents in the current evacuation destination?

	Freq	%
Yes	240	48.10
No	193	38.68
Don't know	46	9.22
No answer	20	4.01
Total	499	100.00

(11) Do residents of the evacuation destination know that you are a Futaba resident?

	Freq	%
Yes	295	59.12
No	79	15.83
Don't know	115	23.05
No answer	10	2.00
Total	499	100.00

(12) Have you ever felt uneasy about taking out garbage at the place where you currently live?

	Freq	%
Yes	92	18.44
No	369	73.95
Don't know	27	5.41
No answer	11	2.20
Total	499	100.00

(13) Have you been called bad names or misbehaved to by the residents of the area you live in now because you are a Futaba resident?

	Freq	%
Yes	61	12.22
No	359	71.94
Don't know	65	13.03
No answer	14	2.81
Total	499	100.00

(14) Do you have any neighbors whom you have known since the pre-disaster period?

	Freq	%
Yes	207	41.48
No	243	48.70
Don't know	37	7.41
No answer	12	2.40
Total	499	100.00

(15) Do you have any friends from Futaba whom you became friends with after the disaster?

	Freq	%
Yes	194	38.88
No	265	53.11
Don't know	24	4.81
No answer	16	3.21
Total	499	100.00

(16) Do you have any friends that evacuated from other places than Futaba whom you became friends with after the disaster?

	Freq	%
Yes	173	34.67
No	208	41.68
Don't know	103	20.64
No answer	15	3.01
Total	499	100.00

(19) Do you have any new friends from your current living site whom you became friends with after the disaster at your current evacuation site?

	Freq	%
Yes	203	40.68
No	220	44.09
Don't know	61	12.22
No answer	15	3.01
Total	499	100.00

(18) I would like to ask you about New Year's cards.

① How many New Year's cards did you (household head) send out this year (2016)?

	Freq	%
0	126	25.25
1 ~ 9	42	8.42
10 ~ 49	173	34.67
50 ~ 99	68	13.63
100 or more	36	7.21
No answer	54	10.82
Total	499	100.00

② For those that sent out New Year's cards this year (2016), when did you post your first New Year's cards?  
(The aggregate result is omitted.)

3. Experience after the disaster and future plans

(1) Does the household head plan to return to Futaba in the future?

	Freq	%
Yes	47	9.42
Haven't decided	85	17.03
No/Cannot	351	70.34
No answer	16	3.21
Total	499	100.00

(2) Have you decided where you are going to live for the long term going forward?

	Freq	%
Decided	249	49.90
Haven't decided/ Don't know	117	23.45
No answer	133	26.65
Total	499	100.00

(3) Detailed history of movement after the disaster  
(The aggregate result is omitted.)

(4) Total number of moves after the Great East Japan Earthquake

	Freq	%
3 times or less	76	15.23
4 ~ 6 times	268	53.71
7 ~ 9 times	98	19.64
More than 9 times	11	2.20
No answer	46	9.22
Total	499	100.00

(5) Change in jobs

① Does household head currently have a job?

	Freq	%
Yes	135	27.05
No	335	67.13
No answer	29	5.81
Total	499	100.00

② Did the occupation of the head of the household change after the disaster?

	Freq	%
Yes	179	35.87
No	214	52.89
No answer	106	21.24
Total	499	100.00

(6) Change in health status

How is the current health of the head of the household?

	Freq	%
Very good	6	1.20
Good	88	17.64
Can't say either way	161	32.26
Bad	124	24.85
Terrible	33	6.61
No answer	87	17.43
Total	499	100.00

② Change in health status before and after the disaster

Before the disaster:

	Freq	%
Very good	60	12.02
Good	299	59.92
Can't say either way	90	18.04
Bad	21	4.21
Terrible	1	0.20
No answer	28	5.61
Total	499	100.00

One month after the disaster:

	Freq	%
Very good	7	1.40
Good	101	20.24
Can't say either way	176	35.27
Bad	146	29.26
Terrible	37	7.41
No answer	32	6.41
Total	499	100.00

Six months after the disaster:

	Freq	%
Very good	6	1.20
Good	83	16.63
Can't say either way	177	35.47
Bad	152	30.46
Terrible	46	9.22
No answer	35	7.01
Total	499	100.00

One year after the disaster:

	Freq	%
Very good	5	1.00
Good	74	14.83
Can't say either way	165	33.07
Bad	179	35.87
Terrible	40	8.02
No answer	36	7.21
Total	499	100.00

Three years after the disaster:

	Freq	%
Very good	6	1.20
Good	79	15.83
Can't say either way	149	29.86
Bad	178	35.67
Terrible	58	11.62
No answer	29	5.81
Total	499	100.00

(7) Change in income

(The aggregate result is omitted.)

4. Opinions to compensations and supports

Compensation for housing lands, houses, and land lease rights in Futaba

	Freq	%
Sufficient	29	5.81
Insufficient	144	28.86
Don't know	114	22.85
No answer	212	42.48
Total	499	100.00

Compensation for fields and other type of lands

	Freq	%
Sufficient	10	2.00
Insufficient	118	23.65
Don't know	82	16.43
No answer	289	57.92
Total	499	100.00

Compensation for cars

	Freq	%
Sufficient	22	4.41
Insufficient	61	12.22
Don't know	95	19.04
No answer	321	64.33
Total	499	100.00

Supports for the costs to buy houses

	Freq	%
Sufficient	20	4.01
Insufficient	108	21.64
Don't know	98	19.64
No answer	273	54.71
Total	499	100.00

Compensation for loss of expected income when the accident had not occurred

	Freq	%
Sufficient	20	4.01
Insufficient	87	17.43
Don't know	89	17.84
No answer	303	60.72
Total	499	100.00

Compensation for emotional distress

	Freq	%
Sufficient	27	5.41
Insufficient	207	41.48
Don't know	78	15.63
No answer	187	37.47
Total	499	100.00

5. Public restoration housings

(1) What is your current situation about the public restoration housings.

	Freq	%
Currently living in it	24	4.81
Decided to live in it	8	1.60
Applied to live in it, and waiting for the result	13	2.61
Planning to live in it	13	2.61
Not living in it and have no plan to apply to live in it in the future neither	270	54.11
Other	39	7.82
No answer	132	26.45
Total	499	100.00

(2) Have you ever lost in the lottery for entering public reconstruction housing?

	Freq	%
Yes	22	4.41
No	176	35.27
No answer	301	60.32
Total	499	100.00

(3) For those who currently live in, decided to live in, or already applied to live in the public restoration housings, which public restoration housing are you currently living/planning to live?

(The aggregate result is omitted.)

(4) For those who have no plan to apply to live in the public restoration housings,

What is the reason that you are not applying for the public restoration housings?

	Freq	%
Already bought a house	193	38.68
Other	105	21.04
No answer	201	40.28
Total	499	100.00

6. Please feel free to write about any challenges you face, what you have noticed and what you feel.

We received many valuable opinions.

Thank you very much.