Survey Design of Japanese Panel Study of Employment Dynamics

Survey Design of	of Japanese Panel Study of Employment Dynamics
1. Outline of the Survey	
Purpose of the Survey	Reveal dynamics and variation of employment and non-employment all over the country
Items surveyed	Status of employment, Living dynamics, Status of initial and previous employment, Attribute of individual person of the Previous one year
Survey volume	about 100 questions Survey 2017: 99 questions
2. Period of the Surve	е у
Survey period	Survey period is fixed as every January January 13 ~ January 31, 2017
3. Coverage of the Su	rvey
Survey districts	All over the country
Conditions of persons	Male and female 15 years old and over to be surveyed
Exclusion conditions	None (no condition on occupation/survey cooperation records)
4. Method of the Surve	ey
Survey technique	Internet monitoring survey (Sample survey)
Sampling method	Extract persons satisfied the conditions by the monitor (Mighty monitor) possessed by Intage Inc.
Sample design	Based on "Labour force survey" data of Statistics Bureau, Ministry of Internal Affairs and Communications, allocation was implemented by gender, stratified age group, type of employment, district block, education background. The allocation was set to reflect the population. However, as for 10s of non-labour force, and 65 years old and over, the allocation was adjusted less than actual count of persons.
Effective collection count/effective collection rate	Survey 2017: 48,763 samples * From Survey 2017 onwards, each survey consists of 2 sample types, continued (continuous answerers since last year), additional (new answerers of the year). • Continued samples (continuous answerers since last year): 34,796 persons Persons requested: 46,283 Effective collection rate: 75.2% • Additional samples (new answerers, this year): 13,967 persons Persons requested: 23,931 Effective collection rate: 58.4% * 14 samples out of the above continued samples are excluded from aggregating subjects due to overseas emigration
5. Aggregation Method	
Weighted sampling aggregation	Weighted sampling aggregation is necessary to implement aggregation according to the population construction since the collection was conducted with less allocation than actual count of persons for 10s of non-labour force, and 65 years ald and even

old and over.

1. Outline of the Survey

In Japanese Panel Study of Employment Dynamics, following items were questioned in survey 2017 for the purpose of grasping status of employment, living dynamics, etc. during the previous one year prior to the survey (in case of survey 2017, one year period of 2016).

Attribut	ee	Status of	the Previous One Year
Q1	Gender	Q47	Level of happiness
Q2	Age	Q48	Life satisfaction
~- Q 3	Birth month and year	Q49	Annual events and living
Q4	Present residential place	Q50	Annual occupational events (1)
Q5	Final educational background	Q51	Annual occupational events (2)
	Graduated faculty	Q52	Self-development activities
Q6	-		-
Q7	Present school year	Q53	Holiday acquisition condition
Q8	Dropout experience	Q54	Rate of taking paid leaves
Q9	Marital status	Q55	Stress
Q10	With or without a child/children	Q56	Income source of living expenses
Q11	Number of children	Q57	How to cover the living expenses
Q12	Age of the eldest child	Q58	Job upskilling
Q12	Age of the youngest child	Q 59	On-the-Job-Training opportunity
Q13	Type of residence	Q 60	Off-the-Job-Training opportunity
Q14	Cohabiter	Q61	With or without self-development
Q15	Principal household income earner	Q62	Work place status
Q16-1	Labour force status of January 2016~April 2016	Q 63	Nature of work
Q16-2	Labour force status of May 2016~August 2016	Q64	Job satisfaction
Q16-3	Labour force status of September 2016~November 2016	Q65	Stress of taking balance of work and family life
Q17	Labour force status of December 2016	Q66	Reasons of stress
Status a	s in Last December	Status of	Second Job
Q18	Type of working	Q67	With or without taking second job
	Type of ampleyment	Q68	Type of working, content of work, number of jobs of the highest income second
Q19	Type of employment		jobs
Q20	Reasons of being engaged in work as in December	Q 69	Type of working, content of work of the second highest income second jobs
Q21	Reasons of absence from work	Q70	Working hours per week of the second jobs
Q22	Could be engaged in work upon availability?	Status of 1	Initial Employment
Q23	Desire to work	Q71	Type of working of initial employment
Q24	Degree of desire to work	Q72	Industry of initial employment
Q25	With or without job seeking	Q 73	Number of employees of initial employment
Q26	Reasons of seeking no job	Q74	Occupation of initial employment
Q27	Reasons of unemployment	Status of	Previous Employment
Q28	The reason of no desire to work	Q75	Type of working of previous employment
Q29	Industry	Q76	Industry of initial employment
Q30	Number of employees	Q77	Number of employees of previous employment
Q31	Occupation	Q78	Occupation of previous employment
Q32	Position title	Q79	Number of working days/hours in previous employment
Q33	With or without employment contract term	Q80	Annual income of previous employment
Q34	Employment contract term	Q81	Channels to find current place of work
Q35	Status of employment (unemployment) insurance coverage	Q82	Order of timing between the last resignation and adoption of current employment
Q 36	Working days and hours per week	Q83	Reasons of the resignation
		-	ound the Delivery of the Youngest Child
Q37	Salary payment method		
Q38	Hourly rate	Q84•Q86	Working status before and after the birth of your youngest child / child currently one year old
Q39	Commuting methods		
Q40	Work flexibility	Q85•Q87	
Q41	Working place		one year old
Q42-1	Time for living (1)Sleep	Others	
Q42-2	Time for living (2)Housework, childcare	Q88	Residential place
Q42-3	Time for living (3)Commutation	Q 89	Academic achievement at the last junior high school year
Q42-4	Time for living (4)Work	Q 90	Month and year of school graduation, month and year of entry to and
Q42-5	Time for living (5)Free time		resignation from the initial employment, month and year of entry to and
Q43	Time allocation of work		resignation from the previous employment, month and year of entry to th current employment
Q44	Time for telework	Q91	Annual income of the previous year (main job, second job, non-occupation
Q45	Status of telework system introduction and adoption	Q92	Type of working of the spouse
	Number of resignation times in the past	Q92 Q93	Annual income of the spouse
Q46	reamper of resignation times in the past		-
		Q94	Savings per household, Amount of security holdings per household
		Q95	Desire for changing or hunting job
		Q96	Approach taken related to future career plan in the past one year
		Q97	Desired future plan after graduation
		Q98 Q99	Decision of occupation after graduation Job hunting experience

2. Period of the Survey

As the purpose is to grasp the status of the previous one year prior to the survey period, the survey period is fixed as every January. The survey 2017 was actually implemented from January 13 to January 31, 2017.

3. Coverage of the Survey

The subjected persons are male and female of 15 years old and over, and without upper age limit. The survey was implemented not as a complete census but sample survey. (Refer to "4. Method of the Survey")

4. Method of the Survey

Internet monitoring survey was used as the technique of survey by asking the monitors for the survey after extracting male and female of 15 years old and over. The survey applied the system to receive answers on internet screens.

When monitors are surveyed, discrepancy would be seen in age and occupation construction between monitors and the population subject to survey. In order to conduct the survey with representativeness reflecting the population as much as possible, necessary sample numbers were calculated by gender, stratified age group, type of employment, district block and education background, then collected answers aiming these numbers (allocation).

On this stage, if the samples are allocated according to the population construction, total volume of unworking groups of 10s and 65 years old and over increases and results decrease of sample numbers of working people groups on the target for the desired close analysis. Therefore, the survey was designed to obtain larger number of working people samples by allocating less figures to non-labour force of 10s, and 65 years old and over.

(Refer to Reference (1) "Production method of population value data and allocation by gender, stratified age group, type of employment, district block and education background")

In survey 2017, at first we asked all the people (49,131 persons) who could be requested out of the answerers of survey 2016, to answer the survey. 46,283 persons could be requested for the survey as they remained in the monitor. 34,796 persons answered out of the above number. In the next stage, new answerers were extracted from the monitor and asked for the survey, imagining deficient cells to be filled up for the allocation. Out of the requested 23,931 persons, answers were obtained from 13,967 persons. In survey 2017, total number of effective samples was 48,763. (Refer to "Reference (2) Allocation and collection count")

5. Aggregation Method

Weighted sampling aggregation is necessary to implement aggregation according to the population construction so that the number of the samples can get near to the population value calculated in the stage of sample design in "4. Method of the Survey", since less figures than actual count of persons were allocated to 10s of non-labour force, and 65 years old and over.

(Refer to "Reference (3) Calculation method of weighted values")

It is verified that big bias can be eliminated from the survey results even compared with official statistics by allocation with smaller segmentation under consideration of the representativeness in the stage of sample design, then making correction by weighted aggregation.

(Refer to "Reference (4) Comparison of the survey results and official statistics")

Reference (1) Production method of population value data and allocation by gender, stratified age group, type of employment, district block and education background

<Data production procedures>

- I. Produce population data: Produce population data using multiple official data adapting to the targeted allocation cells
- II. Correct population data for allocation: Adjust number of persons in the population
- III. Produce allocation: Make allocation adapting to the population data construction after correction

<Data production procedures in detail>

I. Produce population data:

Produce population data using multiple official data adapting to the targeted cells for allocation

I-i. Produce basic data

<Data used>

"Table II Population aged 15 years old and over by status of employment, position of employment, type of employment, marital status, and age group" from 2015 version "Labour Force Survey (Basic Tabulation) by Region" issued by Statistics Bureau, Ministry of Internal Affairs and Communications

- Extract number of persons of self-employed workers, family workers, executives of company or corporation, regular employees, non-regular employees, unemployment and non-labour force by gender age group (divided by 10s) for each area of whole Japan (divided by 11 areas), from "Table II Population aged 15 years old and over by status of employment, position of employment, type of employment, marital status, and age group" of 2015 version "Labour Force Survey (Basic Tabulation) by Region"
 - * The latest yearly data are used
- Data are produced by following cells x 11 areas

		Labour force						Non-labour force
		Self employed	Family worker	Executive of	Regular employee	Non-regular	Unemployment	
		worker		company or		employee		
				corporation				
Male	15 - 24 years old							
	25 - 34 years old							
	35 - 44 years old							
	45 - 54 years old							
	55 - 64 years old							
	65 years old and over							
Female	15 - 24 years old							
	25 - 34 years old							
	35 - 44 years old							
	45 - 54 years old							
	55 - 64 years old							
	07 11 1							

I-ii. Age group division change (by 5 from 10 years)

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<Data used>

"Table I-2 Population aged 15 years old and over by status of employment, position of employment, type of employment (number of employees for non-agricultural/forestry industry employees), main activity status, agriculture/forestry, non-agricultural/forestry, type of household, family type of household and age group" from 2015 version "Labour Force Survey (Basic Tabulation) Whole Japan" issued by Statistics Bureau, Ministry of Internal Affairs and Communications

- The data in I-i are divided into groups of 10 years, therefore the above data are divided so that $15\sim24$ years old becomes $15\sim19$ years old/20 ~24 years old, and 65 years old and over becomes $65\sim69$ years old/70 years old and over
 - (Get the rate of $15 \sim 19$ years old out of $15 \sim 24$ years old, then multiply the data of $15 \sim 24$ years old by the rate to get number of persons. For other age segments, the same procedures are to be followed as above.)
- On this stage, utilise the data corresponding to the segments by self-employed workers, family
 workers, executives of company or corporation, regular employees, non-regular employees,
 unemployment, non-labour force that were sorted in I-i
 - * As for executives of company or corporation, the data of regular employees are used
 - * The data uniformed throughout the country are used

•	In this way, cells will b	e _{r r c}						N 11 6
	arranged as follows;	Labour force Self employed worker	Family worker	Executive of company or corporation	Regular employee	Non-regular employee	Unemployment	Non-labour force
	Male 15 · 19 years old 20 · 24 years old 25 · 34 years old 35 · 44 years old 45 · 54 years old 55 · 64 years old 65 · 69 years old 70 years old and o	ver						
	Female 15 · 19 years old 20 · 24 years old 25 · 34 years old 35 · 44 years old 45 · 54 years old 55 · 64 years old 65 · 69 years old 70 years old and o	ver .						

I-iii. Calculation of number of persons attending school

<Data used>

"Table I-2 Population aged 15 years old and over by status of employment, age group, main activity status, agriculture/forestry, non-agricultural/forestry, whether wishing to work, marital status, type of household, relation to the head of household, and education background" from 2015 version "Labour Force Survey (Detailed Tabulation) Whole Japan" issued by Statistics Bureau, Ministry of Internal Affairs and Communications

- From the above data, ratios of "attending schools" for labour force/non-labour force by gender age (divided into groups of 10 years) are calculated. The results are multiplied by the basic data to get the count of persons "attending school" by labour force/non-labour force x gender age (divided into groups of 10 years)
 - * Since there are no data by labour force breakdown (self-employed, regular employees, etc.), the ratio is as uniformed for every type of employment
 - * Since there are no data by each region, whole Japan data are used

In the above way,

attendin	g school was	Labour force							Non-labour force	
	d and arranged	Self employed	Family worker	Executive of	Regular employee		Unemployment			
		worker		company or corporation		employee				
as in foll	owing cells;			corporation				Attending		Attending
	9							school		school
	Male 15 · 19 years old									
	20 - 24 years old									
	25 · 34 years old									
	35 · 44 years old									
	45 · 54 years old									
	55 - 64 years old									
	65 - 69 years old									
	70 years old and over									
	Female 15 · 19 years old									
	20 - 24 years old									
	25 - 34 years old									
	35 - 44 years old									
	45 - 54 years old									
	55 - 64 years old									
	65 - 69 years old									
	70 years old and over									

I-iv. Divide persons other than attending school into the groups of below university graduates and university graduates or higher

<Data used>

"Table I-2 Population aged 15 years old and over by status of employment, age group, main activity status, agriculture/forestry, non-agricultural/forestry, whether wishing to work, marital status, type of household, relation to the head of household, and education" from 2015 version "Labour Force Survey (Detailed Tabulation) Whole Japan" issued by Statistics Bureau, Ministry of Internal Affairs and Communications

- Like as in I-iii, ratios of below university graduates and university graduates or higher for the persons "graduated from" by labour force /non-labour force x gender age (divided into groups of 10 years) are calculated. The results are multiplied by the basic data to get the count of persons by education background (below university graduates/university graduates or higher)
 - * Since there are no data by labour force breakdown (self-employed, regular employees, etc.), the ratio is as uniformed for every type of employment
 - * Since there are no data by each region, whole Japan data are used
- Now, the count of persons of the population adapted to the aimed allocation cells is completed. Produce 2,816 cells (cells x 11 areas = 2,816) as below;

		Hokkaido															
		Labour for	e												Non-labour	force	
		Self employ	ed worker	Family wor	ker	Executive	of company	Regular en	ployee	Non-regula	ır employee	Unemployr	nent				
						or corporat	tion										
		Below	University	Below	University	Below	University	Below	University	Below	University	Below	University	Attending			Attending
		university	or higher	university	or higher	university	or higher	university	or higher	university	or higher	university	or higher	school	university	or higher	school
		14	6	6	1	10	4	84	41	63	19	7	3	6	165	21	25
Male	15 - 19 years old	0	0	0	0	0	0	1	0	1	0	0	0	0	1	0	9
	20 - 24 years old	0	0	0	0	0	0	3	1	2	1	0	0	2	0	0	3
	25 · 34 years old	1	0	1	0	0	0	10	8	2	2	1	0	0	1	0	1
	35 · 44 years old	1	1	1	0	1	0	16	9	2	1	1	0	0	2	0	0
	45 · 54 years old	2	1	0	0	2	1	13	8	2	1	1	0	0	2	1	0
	55 - 64 years old	3	1	0	0	2	1	10	5	4	3	1	0	0	4	2	0
	65 · 69 years old	1	0	0	0	2	0	2	0	4	1	0	0	0	8	2	0
	70 years old and over	2	1	0	0	1	0	1	0	2	1	0	0	0	31	7	0
Female	e 15 · 19 years old	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	9
	20 - 24 years old	0	0	0	0	0	0	3	1	2	1	0	0	2	0	0	3
	25 · 34 years old	1	0	0	0	0	0	6	4	5	3	1	0	0	5	2	0
	35 · 44 years old	1	0	1	0	1	0	8	2	10	3	1	0	0	9	2	0
	45 · 54 years old	1	0	1	0	1	0	8	1	12	2	1	0	0	8	1	0
	55 - 64 years old	1	0	2	0	1	0	4	1	11	1	1	0	0	16	2	0
	65 · 69 years old	1	0	0	0	1	0	1	0	3	0	0	0	0	16	1	0
	70 years old and over	1	0	1	0	0	0	0	0	1	0	0	0	0	61	2	0

II. Correct population data for allocation: Adjust number of persons in the population

II-i. Reduce the actual count of persons 65 years old and over by half

- Reduce actual data of number of persons for each cell of $65 \sim 69$ years old and 70 years old and over by half
- II-ii. For generation of 10s and 65 years old and over, make the non-labour force a half of the labour
- As for age groups $15\sim19$ years old, $65\sim69$ years old and 70 years old and over, make the total of non-labour force count a half of the labour force
- The construction of education background (below university graduates/university graduates or higher/attending school) within the non-labour force is to be kept same as of the original population construction.

II-iii. After adjustment, construction ratio of the population is calculated

Calculate overall construction ratio of each cell for the population data in II-ii

III. Produce allocation: Make allocation adapting to the population data construction after the correction

- Allocate 41,000 persons adapting to the construction ratio calculated in II-iii
- Now, allocation of 2,816 cells is completed (16 x 16 cells x 11 areas = 2,816). Actual survey was implemented aiming the number of persons to be collected for the allocation

	Hokkaido										Гороки											
	Labour force Self employed worker	Family worker	Executive of comp	any or Regular employ	re Non-rerul	ar employee Une	mployment	- P	ion labour force		Labour force Self employed worker	Family worker	Executive of o	ompany or Res	gular employe	e Non-ro	gular employee	Unemployme	ent	Non-	labour force	
	Below University o	r Below University o	corporation r Below Uni	versity or Below Uz	iversity or Below	University or Belo	w University o	or Attending 1	lelow University or	Attending	Bolow University	or Below Univer	corporation		low Unit	versity or Below	University	or Below	University or A	Attending Below	University	or Attending
	university higher 63 2	university higher	university high	her university his 19 436	her university 214 3	higher unix	ersity higher 34 1	school t	niversity higher 274 55	school 50	iniversity higher	university higher 0 59	university 13 69	higher uni	iversity high 809	her univer	sity higher 464 1-	university 45 56	higher s	chool unive	mity higher 394 8	school 81 81
Male 15 · 19 years old 20 · 24 years old	0	0 0	0	0 3 0 16	5	4 0 9 3	2	0 3 1 12	0 0	5 18	0	0 0	0 0	0	5 29	10	5 11	0 1 4 2	0	4 19	2	0 5
25 · 34 years old 35 · 44 years old	3 7	3 1	3	0 53 2 83	42	12 9	3 3	2 1 2	5 2 8 2	3 0	3 10	2 3 6 3	2 3	6	94 142	74 85	18 17	14 6 10 7	5 4	0	5 8	2 3 2
45 · 54 years old 55 · 64 years old	10	. 0	10	6 69 6 51	42 29		3	2 0	13 3 24 8	0	16 30	0 3 7 0	2 10 0 14	6 8	125 95	76 53	13 41	8 7 23 7	4	0	13 40 1	3 0
65 · 69 years old 70 years old and ove	3 5	0 0	4	1 4	1		0	0 0	11 0	0	12	3 0	0 7	2	6	2	12	4 2	0	0	21	5 0
Female 15 · 19 years old 20 · 24 years old	0	0 0	0	0 1 0 13	0 5	5 0	1 9	0 2	0 0	5 18	0	0 0	0 0	0	2 21	0	8	0 1	0	4	0	0 5
25 · 34 years old	3	0	0	0 34	19 1		3	2 0	27 9	1	3	2 0	0 0	0	61	34 22	44	25 7	4	1	35 1	12 1
35 · 44 years old 45 · 54 years old	4	4	4	1 42	7 4	14 13 11	4	1 0	40 7	0	9	2 9	2 4	1	81	14	90	16 4	1	0	49	9 0
55 - 64 years old 65 - 69 years old	2	1 0	1	0 1	0	9 0	0	0 0	5 0	0	4	0 7	0 3	0	36	0	88 12	1 0	0	0	16	0 0
70 years old and ove	Minami Kanto	1 1	1	0 1	0	4 0	0	0 0	5] 0	0	6 Kita Kanto, Koshinetsu	0 10	1 2	0	2	0	5.	0 0	0	0	16	0 0
	Labour force Self employed worker	Family worker	Executive of comp	any or Regular employ		ar employee Une	mployment	, i	ion-labour force		Labour force Self employed worker	Family worker	Executive of co		gular employe		agular employee	Unemployme		Non-	labour force	
	Below University o	r Bolow University o	corporation r Below Uni	versity or Below Uz	iversity or Below	University or Belo	w University o	or Attending I	lelow University or	Attending	Bolow University	or Below Univer	corporation	University or Bel	kw Uni	versity or Below	University	or Below	University or A	Attending Below	University	or Attending
	university higher 434 18	university higher	university high	her university his 159 3385	her university 1729 215	higher univ	ersity higher 221 9	school t	niversity higher 1705 364	school 372	iniversity higher	university higher 6 56	university 11 82	higher uni	iversity high 864	her univer	sity higher 563 16	university 68 52	higher s	chool unive	unity higher 426 8	school 85 94
Male 15 · 19 years old 20 · 24 years old	1 3	0 0	0 0	0 15 0 88	0 29	10 0 31 26	3 10	0 20 3 81	0 8 2	37 143	0	0 0	0 0	0	5 29	0 10	8 15	0 1 5 2	0	4 21	0 2	0 11 0 39
25 - 34 years old 35 - 44 years old	23 1: 60 3:		15	12 471 30 705	372 16 421 8		32 2 26 b		35 13 42 10	20 2	3 17	2 3 0 3	2 3 2 10	2 6	105 172	83 103	20 17	16 6 10 7	5 4	2	5 13	2 3 3 0
45 - 54 years old 55 - 64 years old	69 43	3 3	69	42 605 46 301	368 1 170 1		23 1	14 0	44 9 107 36	0	16 30	0 0	0 13	8	148	90 51	16	10 7	4	0	9 16 1	2 0
65 - 69 years old 70 years old and ove	28 1	0 0	33	9 24	7 6	18	5	1 0	79 16	0	15	4 0	0 8	2	6	2	16	5 2	0	0	26	5 0
Female 15 · 19 years old 20 · 24 years old	0	0 0	0	0 9	29		2	0 21	5 0	37 124	0	0 0	0 0	0	2 24	0	9	0 1	0	4 21	0	0 5
25 - 34 years old 35 - 44 years old	14 38 10	3 1	3 17	2 318 4 327	178 15 85 35	33 108 30 102	20 1	11 3	200 68 341 96	7 9	3	2 0	0 0	0	61	34 22	47 109	26 3 28 4	2	1	42 1	14 1
45 - 54 years old 55 - 64 years old	36 28	18 23	27	5 265 4 135	47 45 18 33	19 81	22	4 0	274 48 406 54	0	9	2 9	2 4	1	76	13	117	21 4	1	0	58 1	10 0
65 - 69 years old	11	10 1	11	1 14	1 6		2	0 0	58 0	0	4	0 7	0 4	0	4	0	16	1 0	0	0	16	0 0
																						0
	Hokuriku								•		Tokni											
	Hokuriku Labour force Self employed worker	Family worker	Executive of comp	any or Regular employ	se Non-resul	ar employee Une	mployment	7	ion labour force		abour force	Family worker	Executive of co	ompany or Res	gular employe	ne Non-ro	egular employee	Unemployme	ent	Non-	labour force	
	Labour force Self employed worker Below University o	Family worker Below University o	Executive of compound or portion Unit		se Non-regul	ar employee Une	mployment w University o	or Attending I	ion labour force	Attending		Family worker	corporation	ompany or Rep University or Bel	gular employe low Uzir	e Non-ro	egular employee	Unemployms or Below	University or A	Attending Below		or Attending
	Labour force Self employed worker		corporation					or Attending Is school 1			Labour force Self employed worker		corporation									school
Male 15 · 19 years old 20 · 24 years old	Labour force Self employed worker Below University o university higher		corporation	versity or Below University big 19 531 0 3 0 19	iversity or Below her university 247 2 0 6			or Attending 1 school 1 1 2 7 0 2 0 11			Asbour force Self employed worker Selow University university higher		corporation ity or Below university		low University high	versity or Below her univer 692 0 20	University sity higher 882 2 12 24	or Below university 58 © 0 1 8 5	University or A	Attending Below	University neity higher	school
20 · 24 years old 25 · 34 years old 35 · 44 years old	Labour force Self employed worker Below University o university higher		corporation	versity or Below University hig 19 631 0 3 0 19 0 59 4 93	iversity or Below her university 247 2 2 6 6 6 55			or Attending 1 school 1 1 2 7 0 2 1 1 2 0		Attending school 53	Labour force Self employed worker Selow University higher 182 0 0 6 23		corporation ity or Below university 14 125 0 0 0 0 2 3 2 17		low University high 1382 11 61 190 278	0 20 150 106	University higher 882 2 12 24 29 :	or Below university 58 © 0 1 8 5	University or A	Attending Below	University neity higher	school 39 149 0 16
20 - 24 years old 25 - 34 years old 35 - 44 years old 45 - 54 years old 55 - 64 years old	Labour force Self employed worker Below University o university higher		corporation	Nervity or Below University his 19 531 0 3 0 19 0 59	remity or Below her university 247 21 0 6 46 55 48 31 1	University or Bolo higher 29 units 79 2 3 7 7 4 4 7 4 80 11		or Attending school colors of the colors of		Attending school 53	abour force leff employed worker Selow University higher 182 0 0 6 23 34		corporation ity or Below university		low University high 1382 11 61 190	versity or Below her univer 692 0 20 150	University higher 882 22 12 24 29 20 61 1	or Below university 58 © 0 1 8 5	University or A	Attending Below	University neity higher	school 39 149 0 16
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		Labour for	TCO DOZ											_	Non-labour	force		Labour force													Non-labour fo	orce	
		Self emple	yed worker	Family wor	ker	Executive of a corporation	company or	Regular em	ployee	Non-regular	employee	Unemploym	ent	7				Self employs	od worker	Family work	eer	Executive of a corporation	ompany or	Regular emp	loyee	Non-regular	employee	Unemploym	ent				
		Bolow	University o	- Rober	University or		University or	Dalam	University or	Dalam	University o	Polos.	University o	Amendian	Below	University or	Tanandina	Below	University or	Dalon	University or		University or	Robon	University or	Dalam	University or	Ralass	University or	taran dina	Below	University or	January 1997
			higher	university	higher	university		university	higher	university	higher	university	higher	school	university	higher	school	university	higher		higher		higher	university	higher		higher				university	higher	school
		- (32 2	1 24	3	28	11	330	154	186	52	23	11		12	2 33	41	181	77	70	14	100	41	1104	528	659	211	88	39	73	570	117	/ 126
Male	15 · 19 years old		0 (0	0	0	0	2	0	2		1	(0	5	0	0	0	0	0	0	7	0	10	0	1	0	6	0	0	11
	20 - 24 years old		0 (0	0	0	0	11	3	- 4		2	1			1 0	15	0	0	0	0	0	0	37	12	20	6	. 5	2	27	3	1	. 50
	25 - 34 years old		3 :	2 0	0	0	0	35	28	6		3	5			3 1	2	6	5	3	2	3	2	132	104	26	21	9	7	3	8	3	i 5
	35 - 44 years old		7	1 0	0	3	2	60	36	7	4	3	5			1 1	0	20	12	3	2	13	8	199	119	20	12	10	6	0	13	3	. 0
	45 - 54 years old		7	1 0	0	3	2	49	30	7	4	3	5			1 1	0	26	16	0	0	16	10	164	100	16	10	7	-4	0	18	4	. 0
	55 - 64 years old	1	14 1	3 0	0	7	- 4	34	19	14	8	3	5		2	2	0	-44	25	0	0	24	13	118	67	51	29	10	6	0	51	17	. 0
	65 · 69 years old		6 :	2 0		3	1	3	1	- 4		0		'	1		0	16		0	0	8	2	7	2	18		2	0	0	26	5	. 0
	20 years old and over		8 :	2 0	- 0	1	0	1	0	2		0				5 0	0	22	6	1	0	- 4	- 1	3	1	9	3	1	0	0	21		. 0
Femal	le 15 · 19 years old 20 · 24 years old		0			0	0	1		3		0		1			5	0	0	0	0	0	0	4	0	13		. 1	0	6			. 11
	25 - 34 years old						0		3								1.5	0	0	0			0	33	12	22			2	30	- 4		. "
	35 - 44 years old		0		1 ,		0	100	10	11	1			1 .			1		2 2		2		0	112	30	120	-40	10		0	70	99	
	45 - 54 years old		4	1 7	1	4	1	30	6	36	1	4		1 .	2			9	2	9	2	9	9	112	20	135	24		2	0	76	13	8 0
	55 - 64 years old		5		i	5	i	23	3	33	1	0	i		5		0	14	2	23	3	14	2	75	10	130	18	. 5	î	0	173	23	3 0
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	70 years old and over		5 6	4	0	1	0	1	0	2		0	i	1 7		5 0	0	8	0	12	1	2	0	3	0	9	0	. 0	0	0	16	0	. 0

		Labour force												_	Non-labour fi	orce	
		Self employe	ed worker	Family work	00 F	corporation		Regular emp	loyee	Non-regular	employee	Non-workin		1	1		
		Below	University	Below	University	Below	University	Below	University	Below	University	Below	University		Below	University	Attending
			or higher	university	or higher	university	or higher	university		university	or higher	university	or higher	school	university	or higher	school
		23	9	0	0	3	2	108	54	94	31	0	0		64	1.5	16
Male	15 · 19 years old	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	0
	20 · 24 years old	0	0	0	0	0	0	3	1	- 4	1	0	0	3	0	0	7
	25 · 34 years old	0	0	0	0	0	0	15	12	6	5	0	0	0	3	1	2
	35 · 44 years old	3	2	0	0	0	0	20	12	7	4	0	0	0	- 4	1	0
	45 · 54 years old	3	2	0	0	0	0	16	10	3	2	0	0	0	4	1	0
	55 · 64 years old	7	4	0	0	3	2	10	6	7	4	0	0	0	8	3	0
	65 · 69 years old	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
	70 years old and over	1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
Female	15 - 19 years old	0	0	0	0	0	0	0	0	2	0	0	0	1	0	0	. 0
	20 · 24 years old	0	0	0	0	0	0	3	1	- 4	1	0	0	3	1	0	7
	25 - 34 years old	0	0	0	0	0	0	10	6	10	6	0	0	0	8	3	. 0
	35 · 44 years old	0	0	0	0	0	0	13	3	17	4	0	0	0	8	2	0
	45 · 54 years old	0	0	0	0	0	0	13	2	13	2	0	0	0	9	2	0
	55 - 64 years old	5	1	0	0	0	0	5	1	14	2	0	0	0	19	2	0
	65 · 69 years old	1	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0
	20 years old and over	2	0	0	0	0	0	0	0	1	0	0	0	0	0	0	

Reference (2) Allocation and collection count

The number of persons from whom actual effective answers were obtained is as below after the implementation of survey with the target of the allocation produced in Reference (1).

Alloca	tion																
		All over the	country														
		Labour force		I						r				1	Non-labour f	orce	
		Self employe		Family work		Executive of corporation		Regular emp		Non-regular		Unemployme					т
		Below university	University or higher	Below university	University or higher	Below university	University or higher	Below university	University or higher	Below university	University or higher	Below university	University or higher	Attending school	Below university	University or higher	Attending
		1637	674	535	111	1083	463		5593	7256	2179	751	338	745	5811	1217	1275
Male	15 · 19 years old	2	0	0	0	0	0	63	0	115	0	12	0	65	0	0	121
	20 - 24 years old	6			1	0	0	365	120	234	75	37	14	283	28	5	495
	25 · 34 years old	62	48	21	14	36	27	1455	1149	285	225	95	74	32	102	38	61
	35 - 44 years old	200	120		18	143	86	2215		244	145	93	56	0	150	36	4
	45 - 54 years old	236	144			194	118	1890		188	114	76	46	0	162	35	0
	55 - 64 years old	326	185			247	140	1119	632	512	288	81	47	0	456	153	0
	65 - 69 years old	131	37		0	100	28	81	24	204	60	20	2	0	280	57	0
	70 years old and over	177	50		0	45	13	37	11	101	30	9	0	0	196	41	0
Female		0				0		30	0	145	0	9	0	65	5	0	115
	20 - 24 years old	0				0				254	87	30	12	290	39	3	453
	25 · 34 years old	32				6		948	530	649	364	70	41	10	643	219	22
	35 · 44 years old	96	24			53	13	1117	292	1342	350	83	21	0	978	275	4
	45 · 54 years old	110	21		17	82	17	1004	176	1479	261	72	15	0	851	150	0
	55 · 64 years old	131	19		22	112	16	583	79	1206	163	58	10	0	1551	205	0
	65 - 69 years old	50	1		1	37	1	47	1	206	13	4	0	0	201	0	0
	70 years old and over	78	3	84	6	28	0	35	1	92	4	2	0	0	169	0	0
Collec	tion count (final ef																
		All over the	country														
		Labour force												-	Non-labour f	orce	
		Self employe	ed worker	Family work	er	Executive of	company or	Regular emp	oloyee	Non-regular	employee	Unemployme	ent				
		Below	University or	Below	University or	corporation	University or	Rolow	University or	Bolow	University or	Rolow	University or	Attending	Below	University or	TAsson din o
		university	higher	university	higher	university	higher	university	higher	university	higher	university	higher	school	university	higher	school
		2004	1097	555	113	1119	558	12732	6414	8364	2792	739	367	1392	7209	1938	1356
Male	15 - 19 years old	5	0	1	0	0	0	34	0	22	3	2	0	97	33	3	222
	20 - 24 years old	18	4	7	3	13	3	349	145	161	62	18	8	381	59	32	360
	25 - 34 years old	76	80	35	13	44	21	1628	1251	345	250	62	71	56	169	74	54
	35 - 44 years old	230	113	38	23	145	80	2501	1460	311	171	99	58	36	221	50	5
	45 - 54 years old	276	150	22	3	207	122	2106	1219	266	142	88	51	42	215	70	9
	55 - 64 years old	381	252	14	8	244	144	1265	780	593	411	78	54	25	545	214	9
	65 - 69 years old	149	111	3	1	101	53	105	54	249	132	13	5	4	362	173	9
	70 years old and over	162	136	5	4	43	72	38	31	151	134	1	1	7	292	190	4
Female	15 - 19 years old	8	0	0	0	9	0	35	0	82	0	5	0	150	27	2	207
	20 - 24 years old	24	3	8	2	24	1	358	162	315	95	34	10	459	148	33	405
	25 - 34 years old	102	43	37	10	23	13	1096	647	800	403	86	52	41	745	258	27
	35 - 44 years old	129	54	81	15	43	6	1301	355	1590	387	111	26	24	1118	303	12
	45 - 54 years old	149	49	85	7	77	9	1161	178	1748	293	83	15	42	990	167	8
	55 · 64 years old	175	79	157	19	103	27	694	122	1407	268	56	14	24	1793	291	17
	65 · 69 years old	61	9	45	4	29	4	44	7	239	22	3	1	1	272	47	5
	70 years old and over	59	14	17	1	14	3	17	3	85	19	0	1	3	220	31	3
Excess	s/deficiency count																
		All over the	country														
		Labour force	•											_	Non-labour f	orce	
		Self employe	ed worker	Family work	er	Executive of	company or	Regular emp	oloyee	Non-regular	employee	Unemployme	ent				
		Below	University or	Below	University or	corporation	University or	Dolom	University or	Dolom	University or	Dolom	University or	A 44 3	Below	lm.:	I
		university	higher	university	higher	university	higher	university	higher	university	higher	university	higher	school	university	University or higher	school
		367	423			36	95		821	1108	613	(12)	29	647	1398	721	81
Male	15 - 19 years old	3	0		0	0	0	(29)	0	(93)	3	(10)	0	32	33	3	101
	20 - 24 years old	12	2	4	2	13	3	(16)	25	(73)	(13)	(19)	(6)	98	31	27	(135)
	25 - 34 years old	14			(1)	8	(6)			60	25	(33)	(3)	24	67	36	(7)
	35 - 44 years old	30	(7)	10	5	2	(6)	286	137	67	26	6	2	36	71	14	1
	45 - 54 years old	40	6	1	(3)	13	4	216	69	78	28	12	5	42	53	35	9
	55 - 64 years old	55	67		6	(3)	4	146	148	81	123	(3)	7	25	89	61	9
	65 - 69 years old	18	74			1	25	24	30	45	72	(7)	3	4	82	116	9
	70 years old and over	(15)	86		4	(2)	59	1	20	50	104	(8)	1	7	96	149	4
Female	15 - 19 years old	8			0	9	0	5		(63)	0	(4)	0	85	22	2	92
	20 - 24 years old	24	3		2	24	1	53	-	61	8	4	(2)	169	109	30	(48)
	25 - 34 years old	70	23			17	9	148	117	151	39	16	11	31	102	39	5
	35 - 44 years old	33	30		(1)	(10)	(7)	184	63	248	37	28	5	24	140	28	8
	45 - 54 years old	39	28			(5)	(8)		2	269	32	11	0	42	139	17	8
1		1	1 -0	1	(10)	(0)	(0)	101		200	1 02	1			200	1	, ,

55 - 64 years old

^{*} Above data show total of whole Japan. In detail, total throughout the country by 11 areas. Figures in the brackets represent number in deficiency

^{* 14} samples are excluded from the above collection count for this year survey due to their overseas emigration

Reference (3) Calculation method of weighted values

<Calculation procedures>

- I. Calculate number of persons for each cell in case collection can be made up according to the population construction
- II. Calculation of weighted values

<Calculation procedures in detail>

I. Calculate number of persons for each cell in case collection can be made up according to the population construction

I-i.

• Calculate overall construction ratio of each cell using the data of population person count produced in Reference (1)-I

I-ii.

• Calculate number of persons for each cell in case of collection of 48,749 can be made up according to the population, multiplying 48,749 excluded 14 samples of overseas emigrants out of the effective answer count of the survey by overall construction ratio of the population

II. Calculation of weighted values

- Calculate the coefficient (weighted value) to make the actual collection count for each cell as the same number of persons calculated in I-ii
- Calculation was done in following 2 patterns; As for unemployment and non-labour force, the
 weighted value calculated with Pattern A is to be used, and for the rest of persons, the weighted value
 calculated with Pattern B is to be used

Pattern A: Number of all cells of the population produced in Reference (1)-I (2,816 cells)

Pattern B: 96 cells only by gender, stratified age group, status of employment, education background

Pattern A * Hokkaido only as an example

Collection count (fina	al san	ples)																				Ideal count of person	e in cas	collect	ion can b	o made s	ccording	to the p	opulatio	n constr	uction							
	Hokka																	er labour 5					Hokksido Labour fon													Non-labour		
		r torce aployed we	arker	Family wo	ker	Executive o	of company	r or Hop	gular emp	cyre	Non regu	ilar emplo	sysse	Inemployme	tet	1	No	er ustour s	orce				Solf employ	ed worker	Family wor	ker	Executive of corporation	f company or	Regular em	playee	Non-regula	remployee	Inemployme	et	1	Non-tanour	torce	
	Below		niversity or gher	university	University higher	or Below university	Univer	uni	iversity	University higher	universit	y high	ser		University of higher	or Attendis school		iversity	University higher	or Attendin school	e e		Below university	Universit higher	y or Below university	University higher	or Below university	University of higher	r Below university	University of higher	university	University or higher	niversity	University of higher	school	fielow university	University higher	school
Male 15 - 19 years old 20 - 24 years old 22 - 34 years old 23 - 34 years old 45 - 54 years old 55 - 64 years old 65 - 69 years old 70 years old and over		93 0 1 3 11 16 16 4 5	40 0 0 7 1 8 11 2	2	9 0 0 5 2 1 1 0 0	5 5 6 0 0 1 1 1 0 1 0 0 1	51 0 1 2 4 10 12 1 1 3	24 0 0 1 3 7 7 3 1	500 20 59 87 79 55 8	2	0 0 0 66 51 14 14 10 0	356 1 5 12 15 13 28 12 6	110 0 3 12 12 7 10 6	6 5 4 1		7 0 0 2 1 5 2 1	72 8 14 4 3 6 2 0	342 1 3 7 7 14 27 15	1	6 0 3 0 0 0 4 8 1 1	28 15 17 3 0 0 0 2	Malo 15 · 19 years old 20 · 24 years old 25 · 34 years old 35 · 44 years old 45 · 54 years old 55 64 years old 65 years old 65 years old	1	4 0 0 0 2 6 8 8 1 1 6 8	25 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	4 0 0 0 2 2 3 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5 17 0 0 0 0 0 0 3 2 8 8 8 7 2 2	372 3 1 3 4 4 62 5 5 5 42	3 18 2 3 4 3 9 4 3 2 2 7	0 28 0 4 5 1 1 5 5 4 2 2 1	5 82 4 0 7 2 0 8 8 5 8 5 9 11 6 5 8 2	30 1 2 2 2 3 3 3 0 0	12 0 1 2 2 2 2 2 0 0	25 2 10 1 0 0 0	728 3 11 20 3 13	9 5 3 1 5 7 7 1 1 0 6	116 0 35 0 18 2 2 5 2 6 7 6 8 6 6 9 6 6
Female 15 · 19 years old 20 · 24 years old 25 · 34 years old 35 · 44 years old 45 · 54 years old 55 · 64 years old 65 · 69 years old 70 years old and over		1 2 4 8 4 8 4 8	0 0 1 2 0 2		0 0 1 4 4 4 9	0 0 1 0 0 0 2 0	0 1 0 4 6 6 1	0 1 0 1 0 0 0 0	1 16 41 54 50 26 1	:	0 6 27 9 7 6 0	3 15 32 66 72 63 9	0 5 17 16 14 7 0	0 1 7 6 4 4 0		0 0 2 2 1 1 0 1	9 21 1 0 2 2 0	5 8 33 54 47 93 10	1	0 1 2 4 8 8 0 2	12 24 1 3 0 1 0	old delth old old street for street for yours old for 69 yours old for 69 yours old for 69 yours old		0 0 3 4 4 4 4 3 5	0 0 2 1 1 1 0	0 0 0 4 4 8 8 2	0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	31 34	1 1 8 10 5 4	0 4 6 2 9 4 6 5 3 4 0 1	4 0 7 2 3 13 5 12 3 9 7 6 4 1 7 0	0 2 3 4 4 4 0	1 2 1 1 1 0	2 10 0 0 0 0	2: 3: 3: 7: 7: 27	4 1 3 8 4 0 1	0 38 0 18 8 1 1 6 6 6 9 6 2 6

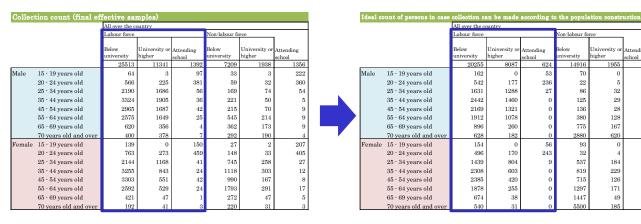
Calculate the coefficient to make the left table figures as the same ones in right table $\[$

= weighted value Pattern A

As for unemployment and non-labour force in blue frames, the weighted value calculated in this way is to be used

* For attending school cells of labour force, Pattern A is to be used only for the persons of unemployment

Pattern B



Calculate the coefficient to make the left table figures as the same ones in right table = weighted value Pattern B

2912

1063

414

979

18

As for the labour force (excluding unemployment) in blue frames, the weighted value calculated in this way is to be used

Reference (4) Comparison of the survey results and official statistics

Comparison between aggregated results in the survey (after weighted aggregation) and construction ratio in official statics shows as below; The results of this survey appear not strongly biased, even compared with official statics.

<Construction ratio by gender, stratified age group and type of employment>

Japanese Panel Study of Employment Dynamics 2017

The population produced in Reference (1)-I

		All over t	he country								
			Labour force							Non-labour	force
			Self	Family	Executive of	Regular	Non-	Unemployment			
			employed	worker	company or	employee	regular				
			worker		corporation		employee				_
		n	previously	previously	previously	previously		previously	Attending		Attendi
			graduated	graduated	graduated	graduated		graduated	school	graduated	school
		48681	5.4	1.2	2.8	29.3	17.9	1.8	1.3	34.5	
Male	15 · 19 years old	1321	0.0	0.0	0.0	0.2	0.1	0.0	0.1	0.1	
	20 - 24 years old	1399	0.0	0.0	0.0	0.9	0.4	0.1	0.5	0.1	
	25 · 34 years old	3149	0.2	0.1	0.1	4.5	0.9	0.3	0.1	0.2	
	35 - 44 years old	4063	0.5	0.1	0.3	6.1	0.7	0.3	0.0	0.3	
	45 - 54 years old	3650	0.7	0.0	0.5	5.1	0.6	0.2	0.0	0.3	
	55 - 64 years old	3510	0.9	0.0	0.6	3.0	1.5	0.2	0.0	1.0	
	65 - 69 years old	2099	0.6	0.0	0.4	0.4	0.9	0.1	0.0	1.9	
	70 years old and over	4304	0.7	0.0	0.2	0.2	0.6	0.0	0.0	7.2	
Female	15 · 19 years old	1253	0.0	0.0	0.0	0.1	0.2	0.0	0.1	0.2	
	20 - 24 years old	1326	0.0	0.0	0.0	0.7	0.5	0.1	0.5	0.1	
	25 - 34 years old	2989	0.2	0.1	0.1	2.4	1.7	0.2	0.0	1.5	
	35 - 44 years old	3953	0.3	0.1	0.1	2.4	2.9	0.2	0.0	2.2	
	45 - 54 years old	3647	0.3	0.1	0.1	2.0	3.1	0.2	0.0	1.7	
	55 - 64 years old	3606	0.3	0.3	0.2	1.2	2.4	0.1	0.0	3.0	
	65 - 69 years old	2187	0.2	0.2	0.1	0.2	0.8	0.0	0.0	3.0	
	70 years old and over	6226	0.4	0.1	0.1	0.1	0.5	0.0	0.0	11.6	

		All over the country										
			Labour force No							Non-labour	Non-labour force	
		n	Self employed worker	Family worker	Executive of company or corporation	Regular employee	Non- regular employee	Unemployment				
		(x 10,000 persons)	previously graduated	previously graduated	previously graduated	previously graduated	previously graduated		Attending school	previously graduated	Attending school	
		11020	4.9	1.4	3.1	29.4	17.4	1.9	1.3		6.0	
Male	15 · 19 years old	305	0.0	0.0	0.0	0.1	0.2	0.0	0.1	0.1	2.2	
	20 - 24 years old	316	0.0	0.0	0.0	0.8	0.5	0.1	0.5		0.8	
	25 · 34 years old	704	0.2	0.1	0.1	4.5	0.9	0.3	0.1	0.2	0.1	
	35 - 44 years old	918	0.5	0.1	0.4	6.1	0.7	0.3	0.0	0.3	0.0	
	45 - 54 years old	826	0.7	0.0	0.5	5.2	0.5	0.2	0.0	0.3	0.0	
	55 - 64 years old	791	0.9	0.0	0.7	3.0	1.4	0.2	0.0	1.0	0.0	
	65 - 69 years old	474	0.6	0.0	0.4	0.4	0.9	0.1	0.0	1.9	0.0	
	70 years old and over	974	0.8	0.0	0.2	0.2	0.4	0.0	0.0	7.2	0.0	
Female	15 - 19 years old	290	0.0	0.0	0.0	0.1	0.3	0.0	0.1	0.2	2.0	
	20 - 24 years old	299	0.0	0.0	0.0	0.7	0.6	0.1	0.5	0.1	0.8	
	25 - 34 years old	676	0.1	0.0	0.0	2.5	1.7	0.2	0.0	1.5	0.0	
	35 - 44 years old	896	0.2	0.1	0.1	2.4	2.9	0.2	0.0	2.2	0.0	
	45 - 54 years old	824	0.2	0.2	0.2	2.0	3.0	0.2	0.0	1.7	0.0	
	55 - 64 years old	814	0.3	0.3	0.2	1.1	2.4	0.1	0.0	3.0	0.0	
	65 - 69 years old	499	0.2	0.2	0.1	0.2	0.7	0.0	0.0	3.1	0.0	
	70 years old and over	1414	0.3	0.3	0.1	0.1	0.3	0.0	0.0	11.7	0.0	

- * % values in the table represent percentage of total
- * Since the weighted aggregation is implemented, total (n) of Japanese Panel Study of Employment Dynamics 2017 is not identical with the actual collection count

<Construction ratio of regular and non-regular by gender and stratified age group, for employees>

Japanese Panel Study of Employment Dynamics 2017

		n (persons)	Regular employee	Non- regular employee
Male	$15 \sim 24$ years old	1051	51.3	48.7
	$25 \sim 34$ years old	2641	82.6	17.4
	$35 \sim 44$ years old	3316	89.2	10.8
	$45 \sim 54$ years old	2801	89.1	10.9
	$55 \sim 64$ years old	2159	67.1	32.9
	65 years old and over	1023	26.0	74.0
Female	$15 \sim 24$ years old	997	37.8	62.2
	$25 \sim 34$ years old	2003	59.2	40.8
	$35 \sim 44$ years old	2581	45.6	54.4
	$45 \sim 54$ years old	2459	39.6	60.4
	$55 \sim 64$ years old	1710	32.8	67.2
	65 years old and over	780	16.2	83.8

Statistics Bureau, Ministry of Internal Affairs and Communications "Labour Force Survey (Basic Tabulation)" December, 2016

(%)

		n (x 10,000 persons)	Regular employee	Non- regular employee
Male	15 ~ 24 years old	260	50.8	49.2
	$25 \sim 34$ years old	582	83.8	16.2
	$35 \sim 44$ years old	731	90.8	9.2
	$45 \sim 54$ years old	665	91.1	8.9
	$55 \sim 64 \text{ years old}$	486	68.7	31.3
	65 years old and over	239	27.2	72.8
Female	$15 \sim 24$ years old	247	44.5	55.5
	$25 \sim 34$ years old	473	61.1	38.9
	$35 \sim 44$ years old	589	46.7	53.3
	$45 \sim 54$ years old	591	41.5	58.5
	$55 \sim 64$ years old	401	33.2	66.8
	65 years old and over	179	21.2	78.8

Statistics Bureau, Ministry of Internal Affairs and

<Unemployment rate by region>

Communications "Labour Force Survey (Basic Tabulation)" October ~ December 2016

(Seasonally adjusted values)

Japanese Panel Study of Employment Dynamics 2017

Hokkaido	Tohoku	Minami kanto	Kitakanto/ koshin	Hokuriku	Tokai	Kinki	Chugoku/ Shikoku	Kyusyu/ Okinawa	
3.2	3.4	3.1	2.7	2.7	2.4	3.6	2.9	3.3	(%)

	Hokkaido	Tohoku	Minami kanto	Kitakanto/ koshin	Hokuriku	Tokai	Kinki	Chugoku/ Shikoku	Kyusyu/ Okinawa	
5)	3.2	2.8	3.3	2.9	2.5	2.4	3.2	3.0	3.3	(%)