Survey Design of Japanese Panel Study of Employment Dynamics

Reveal dynamics and variation of employment and non-employment all over the country	Burvey Design (or Japanese Faner Study of Employment Dynamics
Status of employment, Living dynamics, Status of initial and previous employment, Attribute of individual person of the Previous one year about 100 questions Survey 2020: 104 questions 2. Period of the Survey Survey period Survey period is fixed as every January January 9 ~ January 31, 2020 3. Coverage of the Survey 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 Survey 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 70 years old and over, the allocation was adjusted less than actual count of persons. Effective collection count/effective collection rate: \$0.0% - Yerom Survey 2017 onwards, each survey consists of 3 sample types, continued (previous year answerers), additional (new answerers of the year) and revived (answerers of Survey before 2018 who din't answer Survey 2019). - Continued samples (continued answerers since last year): 47,833 persons Persons requested: 9,512 Effective collection rate: 50.0% - Additional samples (new answerers, this year): 5,025 persons Persons requested: 19,251 Effective collection rate: 32.0% * 26 samples out of the above are excluded from aggregating subjects due to overseas emigration	1. Outline of the Survey	
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	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 and 65 - 69 years old of non-labour force, and 70 years old and over.

1. Outline of the Survey

In Japanese Panel Study of Employment Dynamics, following items were questioned in survey 2020 for the purpose of grasping status of employment, living dynamics, etc. during the previous one year prior to the survey (in case of survey 2020, one year period of 2019).

Attribute		Status of th	e Previous One Year
Q1	Gender	Q50	Level of happiness
Q2	Age	Q51	Life satisfaction
Q3	Birth month and year	Q52	Annual events and living
Q4	Present residential place	Q53	Annual occupational events
Q5	Final educational background	Q54	Self-development activities
Q6	Graduated faculty	Q55	Holiday acquisition condition
Q7	Present school year	Q56	Rate of taking paid leaves
Q7-1	Faculty to plan to graduate from	Q57	Stress
Q8	Dropout experience	Q58	Income source of living expenses
Q 9	Marital status	Q59	How to cover the living expenses
Q10	With or without a child/children	Q60	Job upskilling
Q11	Number of children	Q61	On-the-Job-Training opportunity
Q12	Age of the eldest child	Q62	Off-the-Job-Training opportunity
Q12	Age of the youngest child	Q63	With or without self-development
Q13	Type of residence	Q64	Work place status
Q14	Cohabiter	Q65	Nature of work
Q15	Principal household income earner	Q66	Job satisfaction
Q16-1	Labour force status of January 2018~April 2018	Q67	Stress of taking balance of work and family life
Q16-2	Labour force status of May 2018~August 2018	Status of Se	econd Job
Q16-3	Labour force status of September 2018 ~ November 2018	Q68	With or without taking second job
Q17	Labour force status of December 2018	Q69	Desire to take second job
Status as i	in Last December	Q70	Reasons of desire to take second job
Q18	Type of working	Q71	Reasons of taking second job
Q19	Type of employment	Q72-1	Type of working of the highest income second job
Q20	With or without store	Q72-2	Content of work of the highest income second job
Q21	Reasons of being engaged in work as in December	Q72-3	Specific work content of second job
Q22	Reasons of absence from work	Q72-4	With or without store of second job
Q23	Could be engaged in work upon availability?	Q72-5	Number of the second jobs
Q24	Desire to work	Q73	Working hours per week of the second jobs
Q25	Degree of desire to work	Status of In	itial Employment
Q26	With or without job seeking	Q74	Type of working of initial employment
Q27	Reasons of seeking no job	Q75	Industry of initial employment
Q28	Reasons of unemployment	Q76	Number of employees of initial employment
Q29	The reason of no desire to work	Q77	Occupation of initial employment
Q30	Industry	Status of Pr	revious Employment
Q31	Number of employees	Q78	Type of working of previous employment
Q32	Occupation	Q79	Industry of previous employment
Q33	Position title	Q80	Number of employees of previous employment
Q34	With or without employment contract term	Q81	Occupation of previous employment
Q35	Employment contract term	Q82	Number of working days/hours in previous employment
Q36	Status of employment (unemployment) insurance coverage	Q83	Annual income of previous employment
Q37	Working days and hours per week	Q84	Channels to find current place of work
Q38	Salary payment method	Q85	Order of timing between the last resignation and adoption of current employment
Q39	Hourly rate	Q86	Reasons of the resignation
Q40	Work flexibility	Status arou	nd the Delivery of the Youngest Child
Q41	Working place	Q87 · Q89	Working status before and after the birth of your youngest child / child of currently one year ol
Q42	Job style	$Q88 \cdot Q90$	Social system used at the birth of your youngest child / child of currently one year ol
Q43	Job percentage	Others	
Q44	Commuting methods	Q91	Residential place
Q45-1	Time for living (Commutation)	Q92	Academic achievement at the last junior high school year
		-	Month and year of school graduation, month and year of entry to and
Q45-2	Time for living (Housework, childcare)	Q93	resignation from the initial employment, month and year of entry to and
		4	resignation from the previous employment, month and year of entry to the
Q46	Time for telework	Q94	current employment Annual income of the previous year (main job, second job, non-occupation
Q47	Status of telework system introduction and adoption	Q95	With whom can you consult?
Q48	Subject person to telework system	Q96	Type of working of the spouse
Q49	Number of resignation times in the past	Q97	Event in work (resignation or employment of spouse)
	-	Q98	Annual income of the spouse
		Q99	With or without doing nursing care
		Q100	Desire for changing or hunting job
		-	
		Q101	Approach taken related to future career plan in the past one year
		Q101 Q102 Q103	Desired future plan after graduation Decision of occupation after graduation

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 2020 was actually implemented from January 9 to January 31, 2020.

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 - 69 years old, and 70 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 - 69 years old, and 70 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 2020, at first we asked all the people who could be requested out of the answerers of survey before 2019 (continued samples and revived samples), to answer the survey. 79,018 persons could be requested for the survey as they remained in the monitor. 52,259 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 9,512 persons, answers were obtained from 5,025 persons. In survey 2020, total number of effective samples was 57,284. (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 and 65 - 69 years old of non-labour force, and 70 years old and over. (Reference (3) Calculation method of weighted values" and "Reference (5) 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 2018 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 2018 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	Executive of	Regular	Non-regular	Unemployment	
		worker	worker	company or	employee	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							
	65 years old and over							

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 2018 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 - 24 years old becomes 15 - 19 years old/20 - 24 years old, and 65 years old and over becomes 65 - 69 years old/70 - 74 years old/75 years old and over

(Get the rate of 15 - 19 years old out of 15 - 24 years old, then multiply the data of 15 - 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 be arranged as follows;

		Labour force						Non-labour force
		Self employed	Family	Executive of	Regular	Non-regular	Unemployment	
		worker	worker	company or	employee	employee		
				corporation				
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 - 74 years old							
	75 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 - 74 years old							
	75 years old and over							

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 2018 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, attending school was extracted and arranged as in following cells;

		Labour force							Non-labour for	e e
		Self employed	Family	Executive of	Regular	Non-regular	Unemployme			1
		worker	worker	company or	employee	employee	nt		1	i
				corporation					1	i
								Attending	1	Attending
								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 - 74 years old									
	75 years old and over									
Female	*									
	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 - 74 years old									
	75 years old and over									

Non-labour force

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 2018 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 3.168 cells (cells x 11 areas = 3.168) as below;

		Hokkaido															
		Labour force	е												Non-labour	force	
		Self employ	ed worker	Family worl	ker	Executive of	f company or	Regular em	oloyee	Non-regular	employee	Unemploym	ent	Ī			
						corporation				_							
		Below	University	Below	University	Below	University	Below	University	Below	University	Below	University	Attending	Below	University	Attending
		university	or higher	university	or higher	university	or higher			university	or higher		or higher	school	university	or higher	school
		13	6	4	0	9	4	88	44	65	20	6	3	7	153	22	23
Male	15 · 19 years old	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	9
	20 · 24 years old	0	0	0	0	0	0	3	1	2	0	0	0	3	0	0	3
	25 - 34 years old	1	0	0	0	0	0	10	8	2	1	1	0	0	1	0	0
	35 - 44 years old	1	1	0	0	1	1	15	9	2	1	1	0	0	1	0	0
	45 · 54 years old	2	1	0	0	1	1	15	9	2	1	1	0	0	2	0	0
	55 - 64 years old	2	2	0	0	2	1	9	6	4	2	1	0	0	3	1	0
	65 - 69 years old	1	0	0	0	2	1	1	0	4	1	1	0	0	7	2	0
	70 - 74 years old	1	0	0	0	1	0	1	0	2	1	0	0	0	9	2	0
	75 years old and over	1	0	0	0	0	0	0	0	1	0	0	0	0	22	6	0
Female	15 · 19 years old	0	0	0	0	0	0	0	0	1	0	0	0	1	1	0	8
	20 · 24 years old	0	0	0	0	0	0	3	1	2	1	0	0	3	0	0	3
	25 · 34 years old	0	0	0	0	0	0	6	4	5	3	1	0	0	4	2	0
	35 · 44 years old	1	0	0	0	0	0	8	3	10	3	1	0	0	6	2	0
	45 · 54 years old	1	0	1	0	0	0	9	2	13	2	1	0	0	7	1	0
	55 · 64 years old	1	0	1	0	1	0	5	1	11	2	1	0	0	12	2	0
	65 - 69 years old	1	0	1	0	1	0	1	0	4	0	0	0	0	15	1	0
	70 · 74 years old	1	0	1	0	0	0	0	0	2	0	0	0	0	16	1	0
	75 years old and over	1	0	1	0	0	0	0	0	1	0	0	0	0	48	2	0

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

II-i. Reduce the actual count of persons 70 years old and over by half

- Reduce actual data of number of persons for each cell of 70 74 years old and 75 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 force
- As for age groups 15 19 years old, 65 69 years old, 70 74 years old and 75 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 43,000 persons adapting to the construction ratio calculated in II-iii
- Now, allocation of 3,168 cells is completed (18×16 cells $\times 11$ areas = 3,168). Actual survey was implemented aiming the number of persons to be collected for the allocation

	1	<u>o</u>	1		
	Hokksido			Toboku	
	Labour force Self employed worker Family worker	Executive of company or Regular employee Non-regular empl	Non-labour force Unemployment	Labour force Self-employed worker Family worker Executive of company or Regular employee Non-regular employee Unemployment Non-labour force	
		corporation		emperation	
	Below University Below University university or higher university or higher	university or higher university or higher university or hig	her university or higher school university or higher school		Attending school
Male 15 - 19 years old 20 - 24 years old 25 - 34 years old 25 - 34 years old 35 - 44 years old 45 - 54 years old 55 - 64 years old 65 - 69 years old 70 - 74 years old 79 years old 70 year	65 27 16 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1	1922 31	42 135 55 61 13 72 28 860 416 640 150 27 16 59 30 30 81 15 0 0 0 0 0 4 0 5 0 1 59 30 80 81 16 0 0 0 0 0 22 8 10 3 2 1 24 2 0 2 0 10 6 3 2 2 0 0 8 113 8 3 2 0 13 3 2 0 13 3 2 0 13 3 2 0 13 3 2 0 13 3 2 0 13 3 2 0 13 3 2 0 13 3 2 0 13 3 2 0 13 3 2 0 </th <th>67 5 28 2 0 0 0 0 0</th>	67 5 28 2 0 0 0 0 0
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 - 74 years old 75 years old and over	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 15 5 8 0 0 0 32 21 25 25 0 0 0 44 15 52 0 0 0 49 9 67 5 1 28 4 60 0 3 0 5 0 22 0 0 1 0 1 0 25	3 0 0 16 1 0 1 1 0 17 17 18 18 17 18 18 18 18 18 18 18 18 18 18 18 18 18	14 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	26 1 0 0 0 0
	Minami Kanto Labour force		Non-Ishour force	Kita Kanto, Koshinetsu Labour force Non-labour force	
	Self employed worker Family worker	Executive of company or Regular employee Non-regular employee		Self employed worker Family worker Executive of company or Regular employee Noor regular employee Unemployment employee	
	Below University Below University university or higher university or higher	Below University Below University Below University or higher university or higher university or higher	rsity Below University Attending Below University Attending be university or higher school university or higher school	nding Below University Attending Below University of higher university or h	Attending
Male 15 - 19 years old 20 - 24 years old 25 - 34 years old 35 - 44 years old 45 - 54 years old	445 188 92 11 0 0 0 0 0 2 1 0 1 18 14 3 : 49 31 3 : 74 43 3 :	2 378 194 3832 1956 2449 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	752 173 79 334 1662 377 0 2 0 32 5 0	3d8 109 44 67 12 83 22 882 855 690 132 80 10 7 144 93 48 0 <th>86 11 32 2 0</th>	86 11 32 2 0
55 · 64 years old 65 · 69 years old 70 · 74 years old	58 38 0 1 54 17 1 19 6 1	0 71 46 323 210 132 0 66 21 53 17 142 0 13 4 10 3 34	86 13 8 0 79 33 44 9 3 0 170 43 11 1 0 0 43 11	0 28 17 0 0 13 8 96 59 39 25 3 2 0 30 12 0 29 8 1 0 16 5 13 4 37 11 3 1 0 53 16 0 11 3 1 0 3 1 3 1 9 3 0 0 0 16 5	0
75 years old and over Female 15 · 19 years old 20 · 24 years old	21 6 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 5 2 4 1 13 0 0 0 9 0 63 0 0 94 29 98	4 1 0 0 21 5 0 2 0 36 5 0 30 7 2 129 8 1	0 11 4 1 0 1 0 1 0 1 0 0 0 0 11 0 0 0 11 0 0 0 0 11 0	0 11 29
25 · 34 years old 35 · 44 years old 45 · 54 years old	13 8 3 28 9 12 36 7 18	2 3 2 337 219 170 4 12 4 340 113 356 3 22 4 331 63 519	111 16 10 5 148 55 119 16 5 0 262 89 99 18 3 0 278 52	5 3 2 0 0 0 64 42 33 25 3 2 1 34 13 0 8 3 4 1 4 1 76 25 56 22 4 1 0 48 15 0 9 2 9 2 4 1 50 17 121 23 4 1 0 56 10	0
55 - 64 years old 65 - 69 years old 70 - 74 years old	32 5 19 1 15 9 1 6	3 28 4 143 22 352 1 27 2 27 2 151 3 6 0 6 0 34	53 14 2 0 335 54 11 3 0 0 123 5 2 1 0 0 32 0	0 9 1 14 2 8 1 51 8 111 7 5 1 0 87 14 0 9 1 55 1 5 0 8 1 40 3 0 0 0 27 0 4 0 6 0 1 0 2 0 9 1 0 0 0 11 0	0
75 years old and over	Hokuriku	J 4 U 4 U IZ	1 0 0 0 21 0	Toksi	
	Labour force Self employed worker Family worker	Executive of company or Regular employee Non-regular employee	Non-labour force View Unemployment	Labour force Self employed worker Family worker Executive of company or Regular employee Non-regular employee Unemployment supportation	
	Below University Below University university or higher university or higher	Below University Below University Below University or higher university or higher university or higher	her university or higher school university or higher school	nedag Balow University Below University Below University Below University of higher universit	Attending school
Male 15 · 19 years old 20 · 24 years old	81 32 19 0 0 0 0 0 0 0	2 44 16 533 260 313 0 0 0 0 18 5 8	93 16 9 38 186 35 0 0 0 0 3 0 0 2 0 0 16 1 0	45 211 65 57 8 138 56 1444 755 996 229 47 22 131 634 148 5 5 0 0 0 0 0 0 0 0 0 0 0 0 0 1 1 0 1 1 0 11 1 0 0 1 8 1 18 18 2 1 0 0 0 0 0 50 17 28 8 2 7 55 3 0	130 16 48
25 - 34 years old 35 - 44 years old 45 - 54 years old 55 - 64 years old 65 - 69 years old 70 - 74 years old	3 2 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 59 47 9 3 3 2 84 54 6 6 7 7 4 87 51 7 7 0 10 6 52 34 19 8 2 20 0 2 0 5	7 3 2 1 3 1 4 3 2 0 4 1 1 3 2 0 4 1 1 3 3 2 0 11 5 6 0 0 0 0 27 5 1 0 0 0 5 0	1 8 5 3 2 3 2 183 198 28 21 6 5 3 10 3 3 0 198 298 21 6 5 3 10 3 3 0 198 298 21 7 4 0 18 3 3 0 29 19 10 0 28 17 13 8 288 171 23 15 3 2 0 8 2 3 10 18 3 0 29 19 0 0 28 17 136 88 25 38 6 4 0 34 14 0 29 9 1 0 0 24 7 22 7 64 20 3 1 0 75 21 0 11 3 1 0 5 1 4 1 1 15 5 5 0 0 0 0 18 5	3 0 0 0 0
75 years old and over Female 15 · 19 years old 20 · 24 years old	6 2 0 0 0 0 0 0	0 0 0 2 0 5 0 0 0 15 5 7	1 0 0 0 5 0 0 0 0 3 0 0 2 0 0 14 1 0	0 11 4 1 0 2 1 2 0 8 2 0 0 0 11 5 5 0 0 0 0 0 0 4 0 19 0 1 0 12 2 0 8 16 0 0 0 0 0 0 4 13 3 8	0 16 45
25 - 34 years old 35 - 44 years old 45 - 54 years old 55 - 64 years old 65 - 69 years old 70 - 74 years old	0 0 0 0 4 1 0 4 5 1 5 5 0 6 6 1	0 0 0 39 25 22 0 0 56 19 48 1 4 1 63 12 58 5 1 37 6 60 0 3 0 5 0 25	15 0 0 1 1 11 4 16 4 1 0 20 7 1 11 0 0 0 0 22 4 1 9 0 0 0 41 7 2 0 0 0 0 21 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3 2 0 0 0 0 0 0 0 77 48 3 2 2 65 24 0 18 4 1 4 1 118 29 100 53 4 1 0 87 33 0 1 0 87 30 1 0 18 3 9 2 9 9 2 125 24 215 41 4 1 0 88 5 18 0 14 2 14 2 14 2 69 11 162 25 5 1 0 122 1 1 11 1 1 16 1 88 5 0 0 0 64 5 0 0 0 64 5 0 0 0 6 6 1 0 0 1 1 1 1 1 1 1 1 1 1 1 1	2 0 0 0
75 years old and over	3 0 2	0 0 1 0 2	0 0 0 0 5 0	0 6 0 6 0 2 0 3 0 5 0 0 0 11 0	0
	Kinki Labour force Self employed worker Family worker	Executive of company or Regular employee Non-regular employ	Non-lahour force Unemployment	Chapiku Labor foro Self engisher werker Family worker Executive of company or Regular employee Visor regular employee (Unemployment) Non-balour force Non-balour force	
	Below University Below University	corporation Below University Below University Below University		neparation Interests Below University Below University Below University Below University Below University Relaw University R	Attending
Male 15 · 19 years old	university or higher university or higher 277 118 83 11 0 0 0 0	university or higher university university university or higher university univ			school 57 5
20 - 24 years old 25 - 34 years old 35 - 44 years old	2 1 0 0 9 7 3 3 32 21 3	0 0 0 50 14 48 2 6 5 220 177 38 2 16 10 312 200 32	14 7 2 65 4 1 31 12 9 3 17 4 21 10 6 0 25 7	72 0 0 0 0 0 0 0 22 6 12 3 2 1 22 1 0 5 5 3 2 0 0 3 2 2 2 2 2 1 3 1 3 1 1 3 1 1 1 1 1 1 1	24 1 0
45 - 54 years old 55 - 64 years old 65 - 69 years old	44 26 3 3 39 25 0 0 37 12 1	2 30 18 339 199 37 3 32 21 168 109 74 0 26 8 26 8 73	22 13 8 0 31 6 48 10 6 0 53 22 23 6 2 0 91 21	0 13 8 0 0 16 6 114 67 16 6 3 2 0 0 9 2 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0
70 · 74 years old 75 years old and over Female 15 · 19 years old	14 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 5 2 5 2 17 0 2 1 2 1 7 0 0 0 5 0 34	5 1 0 0 21 5 2 0 0 0 16 5 0 1 0 20 0 0	0 8 2 0 0 3 1 3 1 6 2 0 0 0 11 0 0 0 0 12 0 2 1 0 0 0 0 11 0 0 2 1 0 0 0 0	0 0 5
20 - 24 years old 25 - 34 years old 35 - 44 years old	0 0 0 0 6 4 3 16 5 8 3	0 0 53 16 54 2 0 0 141 92 100 3 4 1 164 55 204	17 2 1 70 5 0 65 13 8 3 91 34 68 8 3 0 135 46	83 0 0 0 0 0 0 0 20 6 13 4 2 1 23 2 0 3 3 3 2 0 0 0 0 51 33 55 22 3 2 1 22 0 0 4 1 4 1 4 1 60 20 27 22 4 4 1 0 36 12	21 1 0
45 - 54 years old 55 - 64 years old 65 - 69 years old	18 3 13 1 19 3 19 1 14 1 15	3 13 3 175 33 282 3 14 2 83 13 213 1 11 1 13 1 80	54 13 3 0 161 30 32 5 1 0 211 34 6 0 0 0 69 5	0 4 1 4 1 4 1 76 14 55 16 4 1 0 40 8 0 9 1 5 1 5 1 42 6 74 11 5 1 0 64 1 0 7 1 8 1 5 0 8 1 31 2 0 0 0 22 0	0
70 · 74 years old					

		Shikoku																Kyusyu															
		Labour force	,												Non-labour	force		Labour forc	10												Non-labour	proce	
		Self employs	od worker	Family wor	ker	Executive of corporation	company or	Regular em	oloyee	Non-regular	employee	Unemploym	ent	1				Self employ	ed worker	Family wor	ker	Executive of corporation	company or	Rogular em	ployee	Nonvegula	r employee	Unemployn	sent				
			University or higher		University or higher	Below university	University or higher	Below university	University or higher	Below university		Bolow university	University or higher	Attending	Below university	University or higher	Attending	Below university	University or higher	Below university	University or higher		University or higher	Below university	University or higher	Below university	University or higher	Below university	University or higher	Attending school		University or higher	Attending
		69	27	27	3	40	14	335	164	187	56	9	6	21	162	32	26	200	86	83	18	98	39	1163	577	767	240	57	29	95	547	120	
	19 years old	0	0	0	0	0	0	2	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	6	0	10	0	1	0	8	0	0	
	24 years old	0	0	0	0	0	0	10	3	4	1	0	0	9	1	0	13	0	0	0	0		0	38	11	20	6	2	- 1	37	2	0	1
	34 years old	3	2	0	0	0	0	35	28	6	5	0	0	1	3	1	1	6	5	3	2	3	2	132	108	23	19	6	5	2	10	3	
	44 years old	6	4	0	0	3	2	55	35	3	2	3	2		4	1	0	19	12	3	2	10	6	188	121	19	12	6	4	0	13	3	1
	54 years old	7	4	0	0	7	4	54	32	3	2	3	2		4	1	0	27	16	3	2	13	8	181	107	20	12	7	4	0	18	3	
	64 years old	13	8	0	0	6	4	32	21	13	8	0	0		11	5	0	39	25			16	10	116	76	52	34	6	4	0	34	14	
	69 years old	11	4	0	0	8	2	5	2	10	3		0		16	5	0	34	11	1	0	16	5	21	7	42	13	3	- 1	0	59	16	
	74 years old	4	1	0	0	2	0	1	0	2	1	0	0		5	0	0	12	4	1	0	3	- 1	4	1	10	3	0	0	0	16	5	
	rears old and over	4	1	0	0	1	0	0	0						5			13	4	1	0	1	0	2	0	4	1	0	0	0	11	5	4
Female 15		0	0	0	0	0	0	1	0	2	0	0	0	2	0	0	0	0	0	0	0	0	0	3	0	14	0	- 1	0	9	0	0	
	24 years old	0	0	0		0	0	8	2	4	1		0	7	1	0	12	0	0	0	0	0	0	33	10	22	7	2	1	37	3	0	
	34 years old	0	0	0	0	0	0	26	17	13	8	3	2	. 0	- 11	4	0	3	2	3	2	3	2	93	60	61	40	6	4	2	42	15	-
	44 years old	4	1	4	1	0	0	36	12	32	11	0	0		16	5	0	8	3	8	3	4	1	120	40	120		8	3	0	64	22	
	54 years old	4	1	4	- 1	4	1	40	8	36	7	0	0		22	4	0	9	2	9	2	9	2	125	24	143		4	1	0	67	13	-
	64 years old	5	1	9	1	5	1	23	4	37	6	0	0		37	6		9	1 1	23	4	9	- 1	83	13	139	21	5	1	0	128	21	-1
	69 years old	4	0	6	0	3	0	5	0	15	1	0	0		16	0	0	11	1	15	1	8	- 1	13	1	52	4	0	0	0	53	0	4
	74 years old	2	0	2	0	1	0	- 1	0	3	0	0	0		5			5				2	۰	3	0	12	1 1	0	0	0	16	0	1
75 yr	rears old and over	2	0	2	0		0	- 1	0	- 1	0	0			5			5		7		1	0	2	0	4		0	0	0	- 11	0	4

		Labour force												_	Non-labour	force	
		Self employ	ed worker	Family worl		Executive of corporation	company or	Regular em	ployee	Non-regular	employee	Unemploym	ent				
							University or higher	Bolow university				Below university		Attending school	Below university		Attending
		21	9	0	0	- 6	- 4	122	60	80	28	0	0	9	63	16	12
Male	15 - 19 years old	0	0	0	0	0	0	0	0	1	0	0	0	1	0	0	0
	20 - 24 years old	0	0	0	0	0	0	3	1	2	1	0	0	3	0		6
	25 · 34 years old	0	0	0	0	0	0	15	12	3	2	0	0	0	3	1	1
	35 - 44 years old	3	2	0	0	0	0	19	12	3	2	0	0	0	4	1	0
	45 - 54 years old	3	2	0	0	3	2	20	12	3	2	0	0	0	4	1	0
	55 - 64 years old	6	4	0	0	3	2	10	6	6	4	0	0	0	8	3	0
	65 - 69 years old	3	- 1	0	0	0	0	3	- 1	2	- 1	0	0	0	5		0
	70 - 74 years old	- 1	0	0	0	0	0	- 1	0	- 1							
	75 years old and over	- 1	0	0	0	0	0	0	0			0	0	0			
Female	15 - 19 years old	0	0	0	0	0	0	0		2				1			
	20 · 24 years old	0	0	0	0	0	0	3	1	4	1			4			5
	25 · 34 years old 35 · 44 years old	0	0	0	0	0		10		10						3	0
								13									
	45 · 54 years old 55 · 64 years old	0	0	0	0			13	3	13	3					2	0
	65 · 69 years old									14					14	2	
	70 - 74 years old	- 1	0												0	0	0
	75 years old and over	1 :								1 1							1 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).

Allocatio	n	All over the	country														
		Labour force													Non-labour	force	
		Self employ		Family worl	ker	Executive of corporation	company or	Regular em	ployee	Non-regular	r employee	Unemploym	ent]	Non labour	iorce	
		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 school
		1764	731	532	99	1140	473	11872	6105	7992	2444	550	260	1031	5577	1236	1111
Male	15 - 19 years old	0	0	0	0	0	0	58	0	128	0	9	0	92	5	0	127
	20 - 24 years old	6	3	0	0	0	0	371	106	253	72	24	9	398	24	2	421
	25 - 34 years old	57	43	18	12	27	20	1461	1176	244	195	65	51	22	104	28	31
	35 - 44 years old	173	110	15	10	115	73	2070	1327	210	134	60	39	0	124	32	0
	45 - 54 years old	259	153	15	10	193	115	2148	1263	203	121	62	38	0	172	34	0
	55 - 64 years old	275	177	0	0	216	138	1137	739	467	305	50	32	0	320	133	0
	65 · 69 years old	261	83	6	0	201	61	187	59	466	144	33	11	0	608	154	0
	70 - 74 years old	94	29	6	0	41	12	38	10	111	34	2	0	0		36	0
	75 years old and over	100	32	6	0	16	4	15	2	43	14	1	0	0	101	20	0
Female	15 - 19 years old	0	0		0	0	0	32	0	172	0	8	0	104	5	0	138
	20 · 24 years old	3	1	0	0	0	0	327	100	271	83	19	8	398	28	1	379
	25 · 34 years old	34	22	12	8	6	4	957	622	582	379	53	34	17	483	178	15
	35 - 44 years old	92	29	48	15	36	10	1112	371	1224	408	56	17	0	748	255	0
	45 - 54 years old	110	22	78	17	73	16	1181	225	1629	311	55	12	0	819	154	0
	55 - 64 years old	116	17	127	20	103	15	628	97	1315	199	49	9	0	1201	194	0
	65 - 69 years old	94	7	110	7	81	5	108	8	518	38	3	0	0	468	15	0
	70 · 74 years old	42	1	42	0	20	0	25	0	117	6	1	0	0	128	0	0
	75 years old and over	48	2	49	0	12	0	17	0	39	1	0	0	0	90	0	0
Collecti	on count (final effective	samples)															
	•	All over the	country														
		Labour force	e												Non-labour	force	
		Self employ	ed worker	Family worl	ker	Executive of corporation	company or	Regular em	ployee	Non-regular	r employee	Unemploym	ent				_
		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 school
		2390	1276	601	146	1161	586	13512	10259	9267	3410	537	255	2074	7715	2723	1346
Male	15 - 19 years old	4	0	2	0	1	0	26	0	16	3	4	1	130	52	3	322
	20 - 24 years old	28	10	8	0	28	5	321	316	194	71	21	10	629	75	43	338
	25 - 34 years old	129	85	39	21	59	30	1869	3106	504	416	71	55	118	218	118	34
	35 - 44 years old	264	140	56	27	104	72	2835	2385	424	228	62	36	54	219	74	9
	45 - 54 years old	300	159	27	10	208	111	2302	1364	278	141	56	36	29	228	59	3
	55 - 64 years old	312	246	17	5	212	142	1264	797	591	353	41	27	28	350	203	8
	65 - 69 years old	305	159	7	4	154	75	173	92	486	337	26	12	14	643	474	14
			104	9	2		42				119	l .	2	6	357	255	I .
	70 - 74 years old	156 85	81	6	3	59 19	35	51 9	30 14	154 72	56	4	4	3	218	178	4 5
F1-	75 years old and over	5	2	+	0	2	1	18	14	57	36	6	0	267			263
Female	15 - 19 years old	51	15		1	22		389	369	335	94	27	7		50	6 40	285
	20 · 24 years old						8							1	165		
	25 - 34 years old	105	39	30	10	27	11	1090	889	905	457	53	30	62	612	254	20
	35 · 44 years old	130	66	55	17	29	12	1139	484	1259	428	47	17	35	811	343	3
	45 - 54 years old	165	61	99	17	68	12	1199	265	1682	347	63	9	28	945	174	10
	55 - 64 years old	165	63	130	20	94	20	688	126	1382	262	40	8	32	1367	259	13
	65 - 69 years old	101	21	67	6	52	7	107	16	686	72	13	0	6	940	172	10
	70 - 74 years old	49	18	30	3	13	2	24	5	201	17	1	1	3	274	38	3
	75 years old and over	36	7	7	0	10	1	8	0	41	6	1	0	1	191	30	2
Ехсевя/с	leficiency count																
		All over the															
		Labour force Self employ		Family worl	ker	Executive of	company or	Regular em	ployee	Non-regular	r employee	Unemploym	ient	Ī	Non-labour	force	
		Below	University	Below	University	corporation Below	University	Below	University	Below	University	Below	University	Attending	Below	University	Attending
		university	or higher	university	or higher	university	or higher	university	or higher	university	or higher	university	or higher	school	university	or higher	school
		626	545	69	47	21	113	1640	4154	1275	966	(13)	(5)	1043	2138	1487	235
Male	15 - 19 years old	4	0	2	0	1	0	(32)	0	(112)	3	(5)	1	38	47	3	195
	20 - 24 years old	22	7	8	0	28	5	(50)	210	(59)	(1)	(3)	1	231	51	41	(83
	25 - 34 years old	72	42	21	9	32	10	408	1930	260	221	6	4	96	114	90	3
	35 - 44 years old	91	30	41	17	(11)	(1)	765	1058	214	94	2	(3)	54	95	42	9
	45 - 54 years old	41	6	12	0	15	(4)	154	101	75	20	(6)	(2)	29	56	25	3
	55 - 64 years old	37	69	17	5	(4)	4	127	58	124	48	(9)	(5)	28	30	70	8
	65 - 69 years old	44	76	1	4	(47)	14	(14)	33	20	193			14	35	320	14
	70 - 74 years old	62	75		2	18	30	13	20	43	85	2	2		208	219	4
	75 years old and over	(15)	49		3	3	31	(6)	12	29	42		4	3	117	158	5
Female	15 - 19 years old	5			0	2	1	(14)	12	(115)	3		0	163	45		
remaie	20 - 24 years old										I .			1			
		48	14		1 1	22	8	62	269	64	11	8	(1)	231	137	39	
	25 - 34 years old	71	17		2	21	7	133	267	323	78	0	(4)	45	129	76	5
	35 - 44 years old	38	37		2	(7)	2	27	113	35	20	(9)		35	63	88	3
	45 - 54 years old	55	39		0	(5)	(4)	18	40	53	36	8	(3)		126		10
	55 - 64 years old	49	46	3	0	(9)	5	60	29	67	63	(9)	(1)	32	166	65	13
	65 - 69 years old		14	(43)	4 (4)	(29)		(1)	8	168	34	10	0	6	472	157	10

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

^{* 26} samples are excluded from the above collection count for this year survey due to their overseas emigration

Reference (3) Calculation method of weighted values of the survey

<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

However, 70 - 74 /75 years old and over cells will be included in one cell with 70 years old and over.

I-ii.

• Calculate number of persons for each cell in case of collection of 57,258 can be made up according to the population, multiplying 57,258 excluded 26 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
- The calculation was handled in the following 3 patterns; As for unemployment and non-labour force, the weighted value calculated with Pattern A is to be used; As for labour force of ages between 15 and 24, and 65 or over (excluding completely unemployed persons), the weighted value calculated with Pattern B is to be used; As for labour force of ages between 25 and 64, the weighted value calculated with Pattern C 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 for other age groups by gender, stratified age group, status of employment, education background.
 - Pattern C: 1,056 cells for 25 64 years old by gender, stratified age group, status of employment, education background and areas.

Pattern A * Hokkaido only as an example

Collection count (final samples)																				17.00	al count of persons in case collec-	tion out be	s made soose	ding to the	namelation	constructi	. .										
	Hol	kaido uur faron										_				Non-labou	form.		7			Holdkaido Labour fo								_	_	_		_	Non-labour	6	_
			worker	Family wo	rker	Executive of corporation	company or	Rogular	employee	se Non-	regular es	mployee U	lnemploys	nent	1	1000 12000	10100						oyed worker	Family we	rker	Executive of corporation	острыну ог	Regular e	mployee	Nonvegul	ilar employee	Unemploys	ment	1	.4011 1210/01		
	Held unit		niversity higher	Helow university	University or higher	Helow university	University or higher	Helow universit		rensity Helos igher unive	r D unity or	hivenity B rhigher u	lolow niversity	University or higher	Attending school	Below university	University or higher	Attending school				Helow university	University or higher	fielow university	University or higher	Below university	University or higher	Below university	University or higher	fielow university	University or higher	Selow university	University or higher	Attending school	Below university	University or higher	Attending 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 - 62 years old 70 years old and over		0 4 8 42 20 16 10	0 1 1 19 9 13 4		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1:	2	0 0 1 5 3 7	3 12 100 458 180 57 10	92 350 95 43 2	1 9 30 98 26 31 18	0 5 18 35 13 14 10	0 2 7 5 3	0 0 4 3 1 1 0	21	11 3 11 3 11 3	2		000000000000000000000000000000000000000	Male	15 - 19 years old 20 - 24 years old 25 - 34 years old 35 - 44 years old 55 - 54 years old 55 - 64 years old 65 - 60 years old 70 years old and over	1	0 0 0 0 0 0 3 2 8 4 10 6 13 8 8 2						2 0 2 0 15 4 11 41 16 49 18 46 17 31 8 2		8 2 8 2 9 7 9 6 10 6 19 12 19 6	0 0 3 3 1 1	2 2 2 1 0	3 14 1 0 0	3 3 4 5 15 36	0 0 1 1 1 2 6 10	47 16 1 0 0 0
Female 15 - 12 years old 20 - 24 years old 25 - 34 years old 35 - 44 years old 45 - 54 years old 55 - 64 years old 65 - 62 years old 70 years old and over		1 2 11 6 4 4	0 0 3 3 0 1		0 0 0 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1		22234422	0 0 0 0 0 0	0 22 45 42 53 32 2	0 14 32 19 13 8	5 13 44 62 88 72 46 13	0 2 15 17 11 6 2	2 2 3 4 5	0 0 0 0	12 22 23 1	33 4 5 6 4	11		1 8 0 0 0 1 1	Form	ale 15 - 19 years old 20 - 24 years old 25 - 34 years old 35 - 44 years old 45 - 54 years old 65 - 69 years old 67 - 69 years old 70 years old and over		0 0 0 0 0 0 4 1 1 4 1 1 5 1 1 3 0 5		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	6			1 0 5 5 11 20 13 14 16 9 77 4 5 0 4 0	2 5 6 5	6 0 9 3 5 16 11 17 55 12 99 9 21 2	0 3 4 4 5	1 1 1 0 0	4 15 1 0 0	31 22 31 35 63 71	0 8 11 7 10 3	13 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0

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

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

Pattern B & Pattern C * All over the Country and Hokkaido as an example

Collection count (final effective samples)		Ideal count of persons in case co	lection can be made according to the population construction	
All over the country	Hokkaido		All over the country	Hokkaido
Labour force Non-labour force	Labour force Non-labour force		Labour force Non-labour force	Labour force Non-labour force
Below University or Attending Below University or				Below University or Attending Below University or Attending
university higher school university higher	ol university higher school university higher school	•••	university higher school university higher school	university higher school university higher school
27468 15932 2074 7715 2723	1346 1870 926 82 409 108		24109 10064 1001 16476 2471 3138	
Male 15 · 19 years old 53 4 130 52 3	322 4 0 2 1 0	Male 15 · 19 years old	188 0 89 78 0 1209	6 0 3 3 0 47
20 · 24 years old 600 412 629 75 43	338 29 11 21 3 2	20 · 24 years old	637 183 387 23 4 409	
25 · 34 years old 2671 3713 118 218 118	34 157 117 4 10 8	25 · 34 years old	1819 1466 21 104 26 31	66 53 1 3 1 1
35 - 44 years old 3745 2888 54 219 74	9 622 414 6 38 8	35 · 44 years old	2583 1656 0 122 33 0	101 65 0 4 1 0
45 - 54 years old 3171 1821 29 228 59	3 239 121 1 8 2	45 - 54 years old	2810 1653 0 170 32 0	108 63 0 9 2 0
55 · 64 years old 2437 1570 28 350 203	8 114 78 1 18 3	55 - 64 years old	2091 1359 0 312 129 0	91 59 0 15 6 0
65 · 69 years old 1151 679 14 643 474	14 51 17 0 38 23	65 - 69 years old	1125 352 0 772 204 0	46 14 0 36 10 0
70 years old and over 625 492 9 575 433	9 25 17 0 17 13	70 years old and over	911 285 0 3411 901 0	33 10 0 161 42 0
Female 15 · 19 years old 91 7 267 50 6	263 6 0 12 1 0	Female 15 · 19 years old	207 0 101 86 0 1103	
20 · 24 years old 833 494 629 165 40	285 39 16 27 6 1	20 - 24 years old	607 187 387 26 3 369	
25 · 34 years old 2210 1436 62 612 254	20 95 48 2 33 11	25 - 34 years old	1604 1042 16 470 173 16	59 39 1 22 8 1
35 · 44 years old 2659 1024 35 811 343	3 123 40 3 43 12	35 - 44 years old	2499 833 0 728 248 0	101 34 0 31 11 0
45 · 54 years old 3276 711 28 945 174	10 159 28 1 51 5	45 - 54 years old	3057 581 0 799 150 0	126 24 0 35 7 0
55 - 64 years old 2499 499 32 1367 259	13 128 14 1 69 14	55 - 64 years old	2270 345 0 1170 190 0	104 16 0 63 10 0
65 · 69 years old 1026 122 6 940 172	10 59 4 1 49 4	65 - 69 years old	892 64 0 1523 70 0	36 3 0 76 3 0
70 years old and over 421 60 4 465 68	5 20 1 0 24 2	70 years old and over	808 58 0 6681 308 0	32 2 0 331 15 0

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

Pattern B: For labor force of 15 - 24 years old and 65 years old and over (excluding unemployment) in blue frames, the weighted value calculated in all areas of the country is used.

Pattern C: For labor force of 25 - 64 years old (excluding unemployment) in red frames, the weighted value calculated in each area is 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 2020

The population produced in Reference (1)-I

		All over the	country								
			Labour force		Non-labour force						
			Self	Family	Executive of	Regular	Non-regular	Unemployment			
			employed	worker	company or	employee	employee				
			worker		corporation						7
			previously	previously	previously	previously	previously	previously	Attending	previously	Attending
		n (persons)		graduated	graduated	graduated	graduated	graduated	school	graduated	school
		57323	5.5					1.3	1.7	33.0	
Male	15 · 19 years old	1552	0.0					0.0	0.2		2.1
	20 · 24 years old	1646	0.1			0.8		0.0	0.7		
	25 · 34 years old	3511	0.2		0.1	4.4		0.2	0.0		
	35 · 44 years old	4420	0.4		0.2			0.2	0.0		
	45 · 54 years old	4681	0.7	0.1	0.5		0.6	0.2	0.0	0.4	
	55 · 64 years old	3915	0.8	0.0			1.4	0.1	0.0	0.8	
	65 · 69 years old	2456	0.7	0.0	0.3	0.4	1.1	0.1	0.0	1.7	
	70 years old and over	5473	0.8	0.0	0.3	0.2	0.8	0.0	0.0	7.5	0.0
Female	15 · 19 years old	1484	0.0	0.0			0.2	0.0	0.2	0.1	1.9
	20 · 24 years old	1573	0.1	0.0	0.0	0.7	0.5	0.0	0.7	0.0	0.6
	25 · 34 years old	3340	0.2	0.0	0.0	2.5	1.7	0.1	0.0	1.1	0.0
	35 · 44 years old	4318	0.3	0.1	0.1	2.6	2.7	0.1	0.0	1.7	0.0
	45 · 54 years old	4584	0.4	0.2	0.1	2.3	3.2	0.1	0.0	1.7	0.0
	55 · 64 years old	3980	0.3	0.2	0.2	1.2	2.5	0.1	0.0	2.4	0.0
	65 - 69 years old	2541	0.2	0.1	0.1	0.2	1.1	0.0	0.0	2.8	0.0
	70 years old and over	7848	0.3	0.1	0.1	0.1	0.8	0.0	0.0	12.2	0.0

		All over the									
			Labour force							Non-labour f	orce
			Self	Family		Regular		Unemployment			
			employed	worker	company or	employee	employee				
			worker		corporation				ļ		7
			previously	previously	previously	previously	previously	previously	Attending	previously	Attending
		n (persons)	graduated	graduated	graduated	graduated	graduated	graduated	school	graduated	school
		11034	4.9	1.3	2.9	30.8	18.4	1.4	1.7	33.1	
Male	15 - 19 years old	301	0.0	0.0	0.0	0.1	0.2	0.0	0.2	0.1	- :
	20 - 24 years old	317	0.0	0.0	0.0	0.8	0.6	0.1	0.7	0.0	
	25 - 34 years old	668	0.2	0.1	0.1	4.5	0.7	0.2	0.0	0.2	_
	35 - 44 years old	847	0.5	0.0	0.3	5.8	0.6	0.2	0.0	0.3	
	45 - 54 years old	899	0.7	0.0	0.5	5.8	0.6	0.2	0.0	0.4	
	55 - 64 years old	750	0.8	0.0	0.6	3.2	1.3	0.1	0.0	0.8	
	65 - 69 years old	473	0.6	0.0	0.4	0.4	1.0	0.1	0.0	1.7	
	70 years old and over	1061	0.9	0.0	0.2	0.2	0.7	0.0	0.0	7.5	
Female	15 - 19 years old	289	0.0	0.0	0.0	0.1	0.3	0.0	0.2	0.2	
	20 - 24 years old	304	0.0	0.0	0.0	0.7	0.6	0.0	0.7	0.1	
	25 - 34 years old	640	0.1	0.0	0.0	2.7	1.6	0.2	0.0	1.1	
	35 - 44 years old	830	0.2	0.1	0.1	2.5	2.8	0.1	0.0	1.7	
	45 - 54 years old	884	0.2	0.2	0.2	2.4	3.3	0.1	0.0	1.7	
	55 - 64 years old	766	0.2	0.2	0.2	1.2	2.6	0.1	0.0	2.4	
	65 - 69 years old	491	0.2	0.2	0.1	0.2	0.9	0.0	0.0	2.8	
	70 years old and over	1514	0.3	0.3	0.1	0.2	0.6	0.0	0.0	12.2	

- * % values in the table represent percentage of total
- * Since the weighted aggregation is implemented, total (n) of Japanese Panel Study of Employment Dynamics 2020 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 2020

Statistics Bureau, Ministry of Internal Affairs and
Communications "Labour Force Survey (Basic
Tabulation)" December, 2019

				(%)
		n (persons)	Regular employee	Non-regular employee
Male	15 - 24 years old	1299	44.3	55.7
	25 - 34 years old	3031	82.7	17.3
	35 - 44 years old	3744	88.8	11.2
	45 - 54 years old	3647	89.8	10.2
	55 - 64 years old	2585	68.6	31.4
	65 years old and over	1410	23.4	76.6
Female	15 - 24 years old	1312	36.0	64.0
	25 - 34 years old	2441	59.2	40.8
	35 - 44 years old	2997	49.0	51.0
	45 - 54 years old	3190	41.9	58.1
	55 - 64 years old	2149	33.3	66.7
	65 years old and over	1289	13.0	87.0

				(%)
		n (x 10,000	Regular	Non-regular
		persons)	employee	employee
Male	15 - 24 years old	286	49.0	51.0
	25 - 34 years old	571	85.3	14.7
	35 - 44 years old	672	90.8	9.2
	45 - 54 years old	722	92.1	7.9
	55 - 64 years old	504	73.0	27.0
	65 years old and over	282	28.0	72.0
Female	15 - 24 years old	282	41.1	58.9
	25 - 34 years old	478	63.2	36.8
	35 - 44 years old	569	50.4	49.6
	45 - 54 years old	658	42.2	57.8
	55 - 64 years old	442	32.8	67.2
	65 years old and over	233	17.6	82.4

<Unemployment rate by region>

Statistics Bureau, Ministry of Internal Affairs and Communications "Labour Force Survey (Basic Tabulation)" October - December 2019 (Seasonally adjusted values)

Japanese Panel Study of Employment Dynamics 2020

Hokkaido	Tohoku	Minami kanto	Kitakanto/ koshin	Hokuriku	Tokai	Kinki	Chugoku/S hikoku	Kyusyu/ Okinawa	
2.8	2.2	2.3	2.0	1.7	1.6	2.7	2.0	2.2	(%)

	Hokkaido	Tohoku	Minami kanto	Kitakanto/ koshin	Hokuriku	Tokai	Kinki	Chugoku/S hikoku	Kyusyu/ Okinawa	
%)	2.5	2.8	2.2	1.9	2.0	1.9	2.4	2.2	2.6	(%)

Reference (5) Calculation method of weighted values of the additional survey

<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 the entire component ratio after obtaining the weighted values of this survey in reference (3)
- I-ii. Multiply 29,248, which is the number of valid answers of the additional survey excluding the 15 samples of overseas immigrants, by the entire component ratio of the population, and calculate the number of persons of each cell when 29,248 was collected according to 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
- For the calculation of the weighted values, 528 cells are set according to gender, age group (three categories), and area
- * Hokkaido and Tohoku as an example

Collection count (final se	amples)							
	Hokkaido			Tohoku				
	Persons employe	ed		Persons employed				
	Regular employee	Non-regular employee	Other employment forms	Regular employee	Non-regular employee	Other employment forms		
	728	489	214	1019	591	343		
Male 15 - 19 years old	1	2	0	0	1	0		
20 - 24 years old	10	13	5	12	15	4		
25 - 34 years old	66	21	5	107	26	15		
35 - 44 years old	211	47	28	198	32	37		
45 - 54 years old	139	22	30	216	17	48		
55 - 64 years old	91	35	42	135	53	71		
65 - 69 years old	10	26	15	15	43	48		
70 years old and over	4	13	19	2	12	22		
Femal 15 - 19 years old	0	7	2	1	8	1		
20 - 24 years old	16	26	2	20	23	6		
25 - 34 years old	44	43	5	80	54	10		
35 - 44 years old	49	63	17	83	84	16		
45 - 54 years old	45	78	15	89	104	25		
55 - 64 years old	37	62	19	54	95	22		
65 - 69 years old	3	23	4	5	18	14		
70 years old and over	2	8	6	2	6	4		

	Hokkaido			Tohoku				
	Persons employe	ed		Persons employe	Persons employed			
	Regular employee	Non-regular employee	Other employment forms	Regular employee	Non-regular employee	Other employment forms		
	582	434	181	978	583	376		
Male 15 - 19 years old	9	4	0	0	3	7		
20 - 24 years old	13	19	7	34	32	5		
25 - 34 years old	74	17	6	130	23	14		
35 - 44 years old	110	18	12	173	15	41		
45 - 54 years old	111	16	17	176	16	43		
55 - 64 years old	66	30	30	117	48	62		
65 - 69 years old	9	19	21	12	32	48		
70 years old and over	4	14	21	2	14	33		
Femal:15 - 19 years old	0	13	3	4	12	(
20 - 24 years old	18	22	2	25	27	7		
25 - 34 years old	46	34	3	82	49	13		
35 - 44 years old	43	55	14	86	82	15		
45 - 54 years old	45	67	12	79	88	25		
55 - 64 years old	30	54	14	52	92	35		
65 - 69 years old	2	34	7	4	27	21		
70 years old and over	3	18	12	3	22			

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

= weighted value