

Survey Design 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 2023: 108 questions

2. Period of the Survey

Survey period	Survey period is fixed as every January January 5 ~ January 31, 2023
---------------	---

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	<p>Survey 2023: 55,807 samples</p> <p>* From Survey 2018 onwards, each survey consists of 3 sample types, continued (previous year answerers), additional (new answerers of the year) and revived (answerers of Survey before 2021 who didn't answer Survey 2022).</p> <ul style="list-style-type: none"> · Continued samples (continuous answerers since last year): 42,643 persons Persons requested: 54,209 Effective collection rate: 78.7% · Additional samples (new answerers, this year): 9,204 persons Persons requested: 19,117 Effective collection rate: 48.1% · Revived samples (no answer in survey 2022, but answered in 2021): 3,960 persons Persons requested: 27,204 Effective collection rate: 14.6% <p>* 14 samples out of the above are excluded from aggregating subjects due to overseas emigration</p>

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 2023 for the purpose of grasping status of employment, living dynamics, etc. during the previous one year prior to the survey (in case of survey 2023, one year period of 2022).

Attribute	Status of the Previous One Year
Q1 Gender	Q54 Level of happiness
Q2 Age	Q55 Life satisfaction
Q3 Birth month and year	Q56 Annual events and living
Q4 Present residential place	Q57 Annual occupational events
Q5 Final educational background	Q58 Self-development activities
Q6 Graduated faculty	Q59 Holiday acquisition condition
Q7 Present school year	Q60 Rate of taking paid leaves
Q7-1 Faculty to plan to graduate from	Q61 Health condition (Stress)
Q8 Dropout experience	Q62 Income source of living expenses
Q9 Marital status	Q63 How to cover the living expenses
Q10 With or without a child/children	Q64 Job upskilling
Q11 Number of children	Q65 On-the-Job-Training opportunity
Q12 Age of the child	Q66 Off-the-Job-Training opportunity
Q13 Type of residence	Q67 With or without self-development
Q14 Cohabiter	Q68 Work place status
Q15 Principal household income earner	Q70 Nature of work
Q16-1 Labour force status of January ~ April	Q71 Job satisfaction, career outlook
Q16-2 Labour force status of May ~ August	Q72 Stress of taking balance of work and family life
Q16-3 Labour force status of September ~ November	
Q17 Labour force status of December	
Status as in Last December	Status of Second Job
Q18 Type of working	Q73 With or without taking second job
Q19 Type of employment	Q74 Desire to take second job
Q20 With or without store	Q75 Reasons of desire to take second job
Q21 Reasons of being engaged in work as in December	Q76 Reasons of taking second job
Q22 Reasons of absence from work	Q77-1 Type of working of the highest income second job
Q23 Could be engaged in work upon availability?	Q77-2 Content of work of the highest income second job
Q24 Desire to work	Q77-3 Job details of the second job that provided the highest income
Q25 Degree of desire to work	Q77-4 With or without store of second job
Q26 With or without job seeking	Q77-5 Number of the second jobs
Q27 Reasons of seeking no job	Q78 Working hours per week of the second jobs
Q28 Reasons of unemployment	
Q29 The reason of no desire to work	Status of Initial Employment
Q30 Industry	Q79 Type of working of initial employment
Q31 Number of employees	Q80 Industry of initial employment
Q32 Occupation	Q81 Number of employees of initial employment
Q33 Position title	Q82 Occupation of initial employment
Q34 With or without employment contract term	Status of Previous Employment
Q35 Employment contract term	Q83 Type of working of previous employment
Q36 Status of employment (unemployment) insurance coverage	Q84 Industry of previous employment
Q37 Working days and hours per week	Q85 Number of employees of previous employment
Q38 Presence of request to increase/decrease the work hours	Q86 Occupation of previous employment
Q39 Degree of increase/decrease in work hours	Q87 Number of working days/hours in previous employment
Q40 Possibility to increase work hours and content of work	Q88 Annual income of previous employment
Q41 Reason of not possible to increase work hours even when wanting to increase them	Q89 Channels to find current place of work
Q42 Salary payment method	Q90 Order of timing between the last resignation and adoption of current employment
Q43 Hourly rate	Q91 Reasons of the last resignation
Q44 Work flexibility	Status around the Delivery of the Youngest Child
Q45 Working place	Q92 Working status before and after the birth of your youngest child / child of currently one year old
Q46 Job style	Q93 Working status before and after the birth of your youngest child / child of currently one year old
Q47 Job percentage	Q94-1 System used at the birth of the youngest child (female)
Q48 Commuting methods	Q94-2 System used at the birth of the youngest child (male)
Q49-1 Time for living (Commutation)	Q95-1 Number of consecutive days taken for childcare leave
Q49-2 Time for living (Housework, childcare)	Q95-2 Number of consecutive holidays taken for childcare
Q50 Time for telework	Others
Q51-1 Status of telework system introduction and adoption	Q96 Residential place
Q51-2 Subject person to telework system	Q97 Academic achievement at the last junior high school year
Q52 Condition of HRM at the workplace	Q98 Month and year of school graduation, month and year of entry to and resignation from the initial employment
Q53 Number of resignation times in the past	Q99 month and year of entry to and resignation from the previous employment,
	Q100 month and year of entry to the current employment
	Q101 Annual income of the previous year (main job, second job, non-occupational)
	Q102 With whom can you consult?
	Q103 Type of working of the spouse
	Q104 Event in work (resignation or employment of spouse)
	Q105 Annual income of the spouse
	Q106 With or without doing nursing care
	Q107 Desire for changing or hunting job
	Q108 Approach taken related to future career plan in the past one year
	Q109 Desired future plan 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 2023 was actually implemented from January 5 to January 31, 2023.

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 2023, at first we asked all the people who could be requested out of the answerers of survey before 2022 (continued samples and revived samples), to answer the survey. 81,413 persons could be requested for the survey as they remained in the monitor. 46,603 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 19,117 persons, answers were obtained from 9,204 persons. In survey 2023, total number of effective samples was 55,807.

(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.

(Refer to “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 October to December 2021 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 October to December 2021 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 worker	Family worker	Executive of company or corporation	Regular employee	Non-regular employee	
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						

Japanese Panel Study of Employment Dynamics 2023

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

<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 October to December 2021 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 worker	Family worker	Executive of company or corporation	Regular employee	Non-regular employee	Unemployment		
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 October to December 2021 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 force	
		Self employed worker	Family worker	Executive of company or corporation	Regular employee	Non-regular employee	Unemployment	Attending school	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 - 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									

Japanese Panel Study of Employment Dynamics 2023

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 October to December 2021 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													Attending school		Non-labour force	
		Self-employed worker		Family worker		Executive of company or corporation		Regular employee		Non-regular employee		Unemployment						
		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	Below university	University or higher	Below university	University or higher	
		12	5	2	1	10	5	83	45	63	22	6	3	7	149	25	22	
Male	15 - 19 years old	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	8	
	20 - 24 years old	0	0	0	0	0	0	3	1	1	0	0	0	3	0	0	3	
	25 - 34 years old	1	0	0	0	1	0	8	8	2	1	1	0	0	1	0	0	
	35 - 44 years old	1	0	0	0	1	0	12	9	2	1	1	0	0	2	0	0	
	45 - 54 years old	2	1	0	0	2	1	15	9	2	1	1	0	0	2	1	0	
	55 - 64 years old	2	1	0	0	2	1	10	6	4	3	1	0	0	2	1	0	
	65 - 69 years old	1	0	0	0	1	0	2	1	3	1	0	0	0	5	2	0	
	70 - 74 years old	1	1	0	0	1	0	1	0	2	1	0	0	0	10	3	0	
75 years old and over	1	0	0	0	1	0	0	0	1	0	0	0	0	23	0	7		
Female	15 - 19 years old	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	8	
	20 - 24 years old	0	0	0	0	0	0	2	1	2	1	0	0	3	0	0	3	
	25 - 34 years old	0	0	0	0	0	0	5	4	4	3	1	0	0	3	2	0	
	35 - 44 years old	1	0	1	0	0	0	7	3	7	4	1	0	0	5	2	0	
	45 - 54 years old	1	0	0	0	0	0	10	2	14	3	1	0	0	6	1	0	
	55 - 64 years old	1	0	1	0	1	0	6	1	11	2	1	0	0	9	2	0	
	65 - 69 years old	0	0	0	0	1	0	1	0	4	0	0	0	0	11	1	0	
	70 - 74 years old	0	0	0	0	1	0	1	0	3	0	0	0	0	18	1	0	
75 years old and over	0	0	0	0	0	0	0	0	1	0	0	0	0	51	3	0		

* Created population data using data of October to December 2021 since the data of October to December 2022 are not disclosed yet at the time of survey implementation. Weighted tabulation is used to assign back to the composition of the population data created by the data of October to December 2022 at the tabulation phase since the data of October to December 2022 will be disclosed by the end of the survey

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

Japanese Panel Study of Employment Dynamics 2023

Shizuoka													Kyushu																												
Labour force													Labour force																												
Self-employed worker			Family worker			Executive of company or corporation			Regular employee			Non-regular employee			Unemployment			Non-labour force			Self-employed worker			Family worker			Executive of company or corporation			Regular employee			Non-regular employee			Unemployment			Non-labour force		
Below university	University or higher	Attending school	Below university	University or higher	Attending school	Below university	University or higher	Attending school	Below university	University or higher	Attending school	Below university	University or higher	Attending school	Below university	University or higher	Attending school	Below university	University or higher	Attending school	Below university	University or higher	Attending school	Below university	University or higher	Attending school	Below university	University or higher	Attending school	Below university	University or higher	Attending school	Below university	University or higher	Attending school						
15-19 years old	0	0	0	0	0	0	1	0	3	0	0	0	2	0	0	0	0	183	32	32	193	36	76	33	90	43	1118	518	711	286	60	29	103	538	135	117					
20-24 years old	0	0	0	0	0	0	10	3	6	2	0	10	1	0	12	0	0	2	1	1	6	0	0	0	29	9	26	6	2	1	27	3	0	44	0	0					
25-34 years old	3	3	0	0	0	0	28	25	6	5	3	3	2	3	1	1	8	8	3	3	3	3	108	89	17	15	6	6	5	6	16	6	6	6	6	6					
35-44 years old	6	5	0	0	3	2	49	39	3	2	3	2	0	4	1	0	16	12	3	2	9	7	171	128	12	9	6	6	5	0	13	3	0	0	0						
45-54 years old	10	6	0	0	7	4	61	27	3	2	3	2	0	4	1	0	20	18	3	2	17	10	188	115	20	12	3	2	0	26	7	0	0	0							
55-64 years old	10	6	0	0	7	4	33	21	10	6	0	0	0	7	4	0	33	21	0	0	17	10	120	75	43	27	7	4	0	31	17	0	0	0							
65-69 years old	8	4	0	0	4	2	7	3	9	4	0	0	0	16	5	0	25	11	1	0	9	4	22	9	38	16	3	1	0	54	16	0	0	0							
70-74 years old	5	2	0	0	2	1	2	1	3	1	0	0	0	5	0	0	15	6	1	0	5	2	6	2	14	8	0	0	0	22	5	0	0	0							
75 years old and over	4	2	0	0	2	1	1	0	1	1	0	0	0	5	0	0	13	5	1	0	4	2	2	1	8	2	0	0	0	16	5	0	0	0							

Miyazaki																																			
Labour force																																			
Self-employed worker			Family worker			Executive of company or corporation			Regular employee			Non-regular employee			Unemployment			Non-labour force																	
Below university	University or higher	Attending school	Below university	University or higher	Attending school	Below university	University or higher	Attending school	Below university	University or higher	Attending school	Below university	University or higher	Attending school	Below university	University or higher	Attending school	Below university	University or higher	Attending school	Below university	University or higher	Attending school												
15-19 years old	0	0	0	0	0	0	1	0	3	0	0	0	2	0	0	0	10	1	0	12	0	0	0	0	3	0	0	0	7	0	0	0	0	0	
20-24 years old	0	0	0	0	0	0	21	16	12	9	0	0	2	7	3	1	6	5	3	2	0	0	92	72	41	23	6	5	7	31	15	2	0	0	0
25-34 years old	0	0	0	0	0	0	28	12	28	12	0	0	0	16	6	0	7	3	4	2	7	3	104	48	100	47	4	2	0	54	22	0	0	0	0
35-44 years old	4	1	4	1	4	1	40	9	40	9	0	0	0	22	5	0	13	3	13	3	4	1	142	32	138	31	9	2	0	12	15	0	0	0	0
45-54 years old	5	1	5	1	5	1	23	4	37	6	0	0	0	32	6	0	9	2	14	2	5	1	74	13	139	24	9	2	0	115	20	0	0	0	
55-64 years old	3	0	4	0	3	0	5	0	16	1	0	0	0	16	0	0	7	1	11	1	5	0	15	1	56	5	4	0	48	5	0	0	0	0	
65-69 years old	2	0	3	0	2	0	2	0	5	0	0	0	0	5	0	0	4	0	7	1	3	0	5	0	18	2	1	0	0	22	0	0	0	0	0
70-74 years old	2	0	3	0	1	0	1	0	2	0	0	0	0	5	0	0	5	0	7	1	2	0	5	0	8	1	0	0	11	0	0	0	0	0	
75 years old and over	2	0	3	0	1	0	1	0	2	0	0	0	0	5	0	0	5	0	7	1	2	0	5	0	6	1	0	0	11	0	0	0	0	0	0

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.
 - Using the data of October to December 2022, create the data on the number of people in the population following the same procedure as the reference ①-I and calculate the entire component ratio for each cell
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 55,793 can be made up according to the population, multiplying 55,793 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
- 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.

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 statistics shows as below; The results of this survey appear not strongly biased, even compared with official statistics.

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

Japanese Panel Study of Employment Dynamics 2023

The population produced in Reference (1)-I

		All over the country									
		Labour force						Non-labour force			
		Self employed worker	Family worker	Executive of company or corporation	Regular employee	Non-regular employee	Unemployment	Attending school	previously graduated	Attending school	
		n (persons)	previously graduated	previously graduated	previously graduated	previously graduated	previously graduated	previously graduated	previously graduated	previously graduated	previously graduated
Male	15 - 19 years old	1408	0.0	1.1	2.8	31.2	18.7	1.3	2.2	32.3	5.2
	20 - 24 years old	1600	0.0	0.0	0.0	0.1	0.1	0.0	0.2	0.1	2.0
	25 - 34 years old	3341	0.2	0.0	0.1	4.4	0.3	0.0	0.8	0.0	0.7
	35 - 44 years old	3897	0.3	0.1	0.2	5.2	0.7	0.2	0.0	0.3	0.0
	45 - 54 years old	4821	0.7	0.1	0.5	8.1	0.7	0.2	0.0	0.4	0.0
	55 - 64 years old	3920	0.7	0.0	0.6	3.5	1.3	0.2	0.0	0.7	0.0
	65 - 69 years old	1843	0.5	0.0	0.3	0.4	1.8	0.0	0.0	1.2	0.0
	70 years old and over	6085	1.0	0.1	0.4	0.3	1.1	0.0	0.0	8.1	0.0
Female	15 - 19 years old	1357	0.0	0.0	0.0	0.1	0.2	0.0	0.2	0.1	1.8
	20 - 24 years old	1527	0.1	0.0	0.0	0.7	0.4	0.0	0.8	0.0	0.8
	25 - 34 years old	3174	0.2	0.0	0.1	2.8	1.5	0.1	0.1	0.8	0.0
	35 - 44 years old	3783	0.3	0.1	0.1	2.5	2.4	0.1	0.0	1.3	0.0
	45 - 54 years old	4708	0.4	0.2	0.1	2.7	3.4	0.1	0.0	1.8	0.0
	55 - 64 years old	3948	0.3	0.2	0.2	1.4	2.8	0.1	0.0	2.1	0.0
	65 - 69 years old	1828	0.1	0.1	0.1	0.2	0.9	0.0	0.0	2.0	0.0
	70 years old and over	6452	0.3	0.2	0.1	0.2	1.2	0.0	0.0	13.2	0.0

		All over the country									
		Labour force						Non-labour force			
		Self employed worker	Family worker	Executive of company or corporation	Regular employee	Non-regular employee	Unemployment	Attending school	previously graduated	Attending school	
		n (persons)	previously graduated	previously graduated	previously graduated	previously graduated	previously graduated	previously graduated	previously graduated	previously graduated	previously graduated
Male	15 - 19 years old	284	0.0	0.0	0.0	0.1	0.2	0.0	0.1	0.2	2.0
	20 - 24 years old	222	0.0	0.0	0.0	0.8	0.8	0.1	0.7	0.1	0.7
	25 - 34 years old	640	0.2	0.0	0.1	4.3	0.7	0.2	0.1	0.2	0.1
	35 - 44 years old	767	0.4	0.0	0.3	5.3	0.5	0.2	0.0	0.3	0.0
	45 - 54 years old	990	0.7	0.0	0.6	8.1	0.6	0.2	0.0	0.4	0.0
	55 - 64 years old	753	0.7	0.0	0.6	3.4	1.2	0.2	0.0	0.7	0.0
	65 - 69 years old	376	0.4	0.0	0.2	0.4	0.9	0.1	0.0	1.2	0.0
	70 years old and over	1199	1.0	0.0	0.5	0.3	0.9	0.0	0.0	8.1	0.0
Female	15 - 19 years old	289	0.0	0.0	0.0	0.0	0.2	0.0	0.2	0.1	1.9
	20 - 24 years old	300	0.0	0.0	0.0	0.7	0.6	0.0	0.7	0.0	0.8
	25 - 34 years old	618	0.1	0.0	0.0	2.9	1.3	0.1	0.1	0.8	0.0
	35 - 44 years old	747	0.2	0.1	0.1	2.8	2.4	0.1	0.0	1.4	0.0
	45 - 54 years old	932	0.2	0.2	0.2	2.7	3.3	0.2	0.0	1.7	0.0
	55 - 64 years old	755	0.2	0.2	0.2	1.4	2.8	0.1	0.0	2.2	0.0
	65 - 69 years old	400	0.1	0.1	0.1	0.2	1.0	0.0	0.0	2.1	0.0
	70 years old and over	1651	0.2	0.3	0.2	0.2	0.8	0.0	0.0	13.2	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 2023 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 2023

Statistics Bureau, Ministry of Internal Affairs and Communications "Labour Force Survey (Basic Tabulation)" December, 2022

		(%)		
		n (persons)	Regular employee	Non-regular employee
Male	15 - 24 years old	1250	42.8	57.2
	25 - 34 years old	2886	85.2	14.8
	35 - 44 years old	3317	88.0	12.0
	45 - 54 years old	3791	89.3	10.7
	55 - 64 years old	2694	72.3	27.7
	65 years old and over	1510	25.0	75.0
Female	15 - 24 years old	1247	36.1	63.9
	25 - 34 years old	2429	65.3	34.7
	35 - 44 years old	2731	51.4	48.6
	45 - 54 years old	3406	44.1	55.9
	55 - 64 years old	2342	33.7	66.3
	65 years old and over	1348	14.3	85.7

		(%)		
		n (x 10,000 persons)	Regular employee	Non-regular employee
Male	15 - 24 years old	261	49.8	50.2
	25 - 34 years old	564	86.3	13.7
	35 - 44 years old	622	90.2	9.8
	45 - 54 years old	741	91.8	8.2
	55 - 64 years old	542	75.1	24.9
	65 years old and over	292	27.1	72.9
Female	15 - 24 years old	267	43.8	56.2
	25 - 34 years old	489	69.3	30.7
	35 - 44 years old	536	51.9	48.1
	45 - 54 years old	679	43.6	56.4
	55 - 64 years old	474	32.9	67.1
	65 years old and over	247	16.2	83.8

<Unemployment rate by region>

Japanese Panel Study of Employment Dynamics 2023

Statistics Bureau, Ministry of Internal Affairs and Communications "Labour Force Survey (Basic Tabulation)" October - December 2022 (Seasonally adjusted values)

Hokkaido	Tohoku	Minami kanto	Kitakanto /koshin	Hokuriku	Tokai	Kinki	Chugoku/ Shikoku	Kyusyu/ Okinawa
2.8	2.7	2.6	2.3	1.8	1.9	2.8	2.3	2.8

Hokkaido	Tohoku	Minami kanto	Kitakanto /koshin	Hokuriku	Tokai	Kinki	Chugoku/ Shikoku	Kyusyu/ Okinawa
2.2	2.2	2.3	1.9	1.4	1.6	2.4	1.8	2.3

Additional Survey Design of Japanese Panel Study of Employment Dynamics

1. Outline of the Survey

Purpose of the Survey	Reveal the actual conditions of activities of employed persons when changing their jobs and provide suggestions that also improve their quality of work
Items surveyed	Actual conditions of activities to change jobs or seek employment (reason, activity period, activity route, important items, level of satisfaction, change in annual income, etc.)
Survey volume	20 questions

2. Period of the Survey

Survey period	January 13 ~ February 7, 2023
---------------	-------------------------------

3. Coverage of the Survey

Survey districts	All over the country
Conditions of persons	Males and females of 15 years or older who replied that they changed their jobs or had intention to seek employment after 2018 in this survey conducted on January 2023
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	Request a survey toward respondents who are applicable to the target people described above among valid respondents of the JPSED2023 main survey
Effective collection count/effective collection rate	21,930 samples Persons requested: 21,162 Effective collection rate: 83.8%

5. Aggregation Method

Weighted sampling aggregation	Perform weighted tabulation to tabulate according to the composition of the population Apply weighted value calculated in this survey
-------------------------------	--