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	 Survey 2023: 55,807 samples * 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). 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% * 14 samples out of the above 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 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).

	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 \sim April	Q71 Job satisfaction, career outlook
Q16·2Labour force status of May \sim August	Q72 Stress of taking balance of work and family life
Q16·3Labour force status of September \sim November	Status of Second Job
Q17 Labour force status of December	Q73 With or without taking second job
Status as in Last December	Q74 Desire to take second job
Q18 Type of working	Q75 Reasons of desire to take second job
Q19 Type of employment	Q76 Reasons of taking second job
Q20 With or without store	Q77-1 Type of working of the highest income second job
Q21 Reasons of being engaged in work as in December	Q77-2 Content of work of the highest income second job
Q22 Reasons of absence from work	Q77-3 Job details of the second job that provided the highest income
Q23 Could be engaged in work upon availability?	Q77-4 With or without store of second job
Q24 Desire to work	Q77-{Number of the second jobs
Q25 Degree of desire to work	Q78 Working hours per week of the second jobs
Q26 With or without job seeking	Status of Initial Employment
Q27 Reasons of seeking no job	Q79 Type of working of initial employment
Q28 Reasons of unemployment	Q80 Industry of initial employment
Q29 The reason of no desire to work	Q81 Number of employees of initial employment
Q30 Industry	Q82 Occupation of initial employment
Q31 Number of employees	Status of Previous Employment
Q32 Occupation	Q83 Type of working of previous employment
Q33 Position title	Q84 Industry of previous employment
Q34 With or without employment contract term	Q85 Number of employees of previous employment
Q34 With or without employment contract term Q35 Employment contract term	Q85 Number of employees of previous employment Q86 Occupation of previous employment
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 Q34 With or without employment contract term Q35 Employment contract term Q36 Status of employment (unemployment) insurance coverage Q37 Working days and hours per week Q38 Presence of request to increase/decrease the work hours Q39 Degree of increase/decrease in work hours Q40 Possibility to increase work hours and content of work Q41 Reason of not possible to increase work hours even when wanting to increase them Q42 Salary payment method Q43 Hourly rate Q44 Work flexibility Q45 Working place Q46 Job style Q47 Job percentage Q48 Commuting methods Q49-1Time for living (Commutation) Q49-2Time for living (Housework, childcare) Q50 Time for telework Q51-1Status of telework system Q52 Condition of HRM at the workplace Q53 Number of resignation times in the past 	 Q85 Number of employees of previous employment Q86 Occupation of previous employment Q87 Number of working days/hours in previous employment Q88 Annual income of previous employment Q89 Channels to find current place of work Q90 Order of timing between the last resignation and adoption of current employment Q91 Reasons of the last resignation Status around the Delivery of the Youngest Child Q92 Working status before and after the birth of your youngest child / child of currently one year old Q93 Working status before and after the birth of your youngest child / child of currently one year old Q94 Q94:1System used at the birth of the youngest child (female) Q94:2System used at the birth of the youngest child (male) Q95:2Number of consecutive days taken for childcare leave Q95:2Number of consecutive holidays taken for childcare Others Q96 Residential place Q97 Academic achievement at the last junior high school year 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

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

(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"

 \ast 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) <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	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 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, Labour force on-labour fo attending school was Self employed Family Non-regular Unemployme Evecutive of orker vorker ompany or mployee employee extracted and arranged orporation as in following cells; Attendin Attendi school school 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 ov 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-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 forc	e												Non-labour	force	
		Self employ	ved worker	Family wor	ker	Executive of	f company	Regular em	ployee	Non-regula	r employee	Unemployn	nent				
						or corporati	on						-			-	
		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	university	or higher	university	or higher	school	university	or higher	school
26.2		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	7	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	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	1	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

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 x 16 cells x 11 areas = 3,168). Actual survey was • implemented aiming the number of persons to be collected for the allocation



20 · 24 y 25 · 34 y 35 · 44 y 55 · 64 y

		Shikoku													-			Kyusyu															
		Labour for	50												Non-labor	ir force		Labour for	roa												Non-labour	force	
		Self emplo	yed worker	Family wor	rker	Executive of	f company or	Regular er	nployee	Non-regula	ır employee	Unemploy	nent					Self emplo	oyed worker	Family wo	rker	Executive o	f company or	Regular en	nployee	Non-regul	ar employee	Unemployn	nent		i i		
						corporation											_					corporation									L		
		Below	University	Below	University	Below	University	Below	University	Below	University	Below	University	Attending	Below	University	Attending	Below	University	Below	University	Below	University	Below	University	Below	University	Below	University	Attending	Below	University J	sttending
		university	or higher	university	or higher	university	or higher	university	or higher	university	or higher	university	or higher	school	university	or higher	school	university	or higher	university	or higher	university	or higher	university	or higher	university	or higher	university	or higher	school	university	or higher	chool
		62	30	19	2	40	16	312	167	190	62	9	7	28	145	1 32	32	193	3 96	74	19	90	43	1118	616	711	1 246	60	29	103	538	135	117
Male	15 - 19 years old	0	0	0	0	0	0	1	0	3	0	0	0	2	. 6	1 0	5		0 0	2	. 0	0	0	4	0	11	1 0	0	0	8	0	0	11
	20 - 24 years old	0	0	0	0	0	0	10	3	6	2	0	0	10	r 1	1 0	13	2	2 1	1	0	0	0	29	8	26	i 8	2	1	37	3	0	44
	25 - 34 years old	3	3	0	0	0	0	28	25	6	5	3	3	2	: 2	3 1	1	8	8 8	3	1 3	3	3	108	99	13	/ 15	6	5	6	16	6	6
	35 - 44 years old	6	5	0	0	3	2	43	33	3	2	3	2	0	1 4	4 1		16	6 12	3	2	9	7	171	128	12	2 9	6	5	0	13	3	0
	45 - 54 years old	10	6	0	0	7	4	61	37	3	2	3	2	0	, ,	4 1		30	D 18	3	2	17	10	189	115	20	12 ي	3	2	0	26	7	0
	55 - 64 years old	10	6	0	0	7	4	33	21	10	6	0	0	0	1 3	/ 4		33	3 21	0		17	10	120	75	43	3 27	7	4	0	31	17	0
	65 - 69 years old	8	4	0	0	4	2	7	3	9	4	0	0	0	1 16	ś 5		25	5 11	1	0	9	4	22	9	38	\$ 16	3	1	0	54	16	0
	70 - 74 years old	5	2	0	0	2	1	2	1	3	1	0	0	0	1 1	j O		15	5 6	1	0	5	2	6	2	14	4 6	0	0	0	22	5	0
	75 years old and over	4	2	0	0	2	1	1	0	1	1	0	0	0	1 1	j O		13	3 5	1	0	4	2	2	1	6	i 2		0	0	16	5	0
Female	15 · 19 years old	0	0	0	0	0	0	1	0	3	0	0	0	2		J 0		0	D 0	0	0	0	0	3	0	10	J 0	0	0	7	0	0	11
	20 - 24 years old	0	0	0	0	0	0	7	3	5	2	0	0	10	r 1	1 0	12		0 0	0	0	0	0	29	13	16	i 8	. 0	0	38	3	0	43
	25 - 34 years old	0	0	0	0	0	0	21	16	12	9	0	0	2		/ 3	1	6	6 5	3	2	0	0	92	72	41	i 33	6	5	7	31	15	2
	35 - 44 years old	0	0	0	0	0	0	26	12	26	12	0	0	0	16	i 6		7	7 3	4	2	7	3	104	48	100	J 47	4	2	0	54	22	0
	45 - 54 years old	4	1	4	1	4	1	40	9	40	9	0	0	0	/ 23	2 5		13	3 3	13	1 3	4	1	142	32	138	31	9	2	0	72	15	0
	55 - 64 years old	5	1	5	1	5	1	23	4	37	6	0	0	0	/ 33	2 6		5	9 2	14	1 2	5	1	74	13	135	3 24	9	2	0	115	20	0
	65 - 69 years old	3	0	4	0	3	0	5	0	16	1	0	0	0	r 16	i O		7	7 1	- 11	1	5	0	15	1	56	i 5	4	0	0	49	5	0
	70 - 74 years old	2	0	3	0	2	0	2	0	5	0	0	0	0	1 1	j O		4	4 0	7		3	0	5	0	18	3 2	1	0	0	22	0	0
	75 years old and over	2	0	3	0	1	0	1	0	2	0	0	0	0	()	j O		5	5 0	7	1	2	0	3	0	6	á 1	0	0	0	11	0	0
		-																															
		Okinawa																															
		Labour force													Non-labor	ur force																	
		Self emplo	yed worker	Family wor	rker	Executive of	f company or	Regular er	nployee	Non-reguls	ır employee	Unemployi	nent																				
						corporation											-																
		Below	University	Below	University	Below	University	Below	University	Below	University	Below	University	Attending	Below	University	Attending	1															
		university	or higher	university	or higher	university	or higher	university	or higher	university	or higher	university	or higher	school	university	or higher	school	4															
		16	9	0	0	6	3	126	70	82	32	0	0	13	. 40	j 12	12	4															
Male	15 - 19 wars old	0					1 0			2	1 0			1 1		4 0																	

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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	on																
		All over the	country														
		Labour forc	e												Non-labour	force	
		Selfemploy	ed worker	Family wor	ker	Executive of	company or	Regularem	nlovee	Non-regula	r employee	Unemployn	ient				
						corporation	· · · · · ·	g	1.0000								
		D 1	**			corportation		n. 1		n. 1		D 1					
		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	university	or higher	university	or higher	school	university	or higher	school
		1584	766	451	104	1093	522	11797	6740	7615	2657	586	305	1174	5120	1300	1108
Male	15 - 19 years old	0	0	2	0	0	0	47	0	117	0	3	0	81	5	0	117
	20 - 24 years old	9	3	1	0	0	0	367	106	273	81	31	12	417	28	1	416
	25 - 34 years old	62	59	12	12	29	28	1327	1221	220	201	63	58	66	104	36	36
	35 - 44 years old	140	105	15	10	101	77	1789	1345	182	137	58	44	0	127	29	0
	45 - 54 years old	250	150	10		222	122	2275	1290	216	120	60	42	0	207	52	ů
	FE - 64 means old	250	160	12	0	220	140	1260	701	440	275	67	40	0	267	140	ů
	55 - 64 years old	200	103	3	2	227	140	1200	/91	440	2/5	07	40	0	203	140	0
	65 - 69 years old	187	81	6	0	103	44	182	11	392	166	30		0	476	145	0
	70 - 74 years old	109	45	6	0	56	22	48	19	141	59	3	1	0	195	57	0
	75 years old and over	96	41	6	0	49	20	19	8	56	24	0	0	0	123	36	0
Female	15 - 19 years old	0	0	0	0	0	0	25	0	143	0	2	0	96	5	0	123
	20 - 24 years old	0	0	0	0	0	0	280	126	231	106	18	9	441	28	0	387
	25 - 34 years old	39	30	9	6	9	6	960	758	450	356	48	36	73	368	177	29
	35 - 44 years old	74	34	38	18	33	15	1044	486	970	453	49	24	0	586	234	0
	45 - 54 years old	118	27	78	18	73	17	1292	290	1687	378	73	17	0	815	171	0
	55 - 64 years old	09	10	00	17	96	16	710	122	1246	229	57	11	0	1007	104	ů
	65 - 60 means old	50	13	33	17	51	10	105	123	500	220	12		0	420	134	0
	65 - 69 years old	00	4	12	/	51	3	105	0	522	44	12	0	0	429	20	0
	70 - 74 years old	39	2	46	3	32		35		1/1	15	3	0	0	162	0	0
	75 years old and over	45	3	46	3	21	0	23	1	58	4	0	0	0	102	0	0
Collecti	on count (f <u>inal effecti</u>	ve sa <u>mple</u>	s)														
		All over the	country														
		Labour fore	· · · · · · · · · · · · · · · · · · ·												Non-labour	force	
		Falf amples	io di mondroni	Family	han	Executive of		Possilan am		Non-monulo		Unomoloum		1	rton nibou	10100	
		Sen employ	eu worker	Family wor	Kei	invection	company or	negular elli	pioyee	Non regula	rempioyee	Onempioyn	ient				
						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	university	or higher	university	or higher	school	university	or higher	school
		2173	1204	526	147	1148	647	12803	10375	8910	3432	503	276	1632	7928	3053	1036
Male	15 - 19 years old	2	0	1	0	1	0	11	1	13	0	2	0	114	47	4	229
	20 - 24 years old	17	9	3	2	13	9	225	257	103	63	18	8	367	52	38	187
	25 - 34 years old	93	61	24	15	42	25	1600	2112	344	260	46	49	68	136	105	42
	35 - 44 years old	163	117	34	19	95	74	2024	2314	358	228	45	30	40	181	77	10
	45 - 54 mann ald	206	174	25	15	224	120	2024	1707	227	165	40	22	-10	266	05	10
	45 - 54 years old	200	174	30	15	224	130	2404	1/0/	337	105	03	33	39	200	00	5
	55 - 64 years old	297	1/1	9	2	229	150	1305	876	534	311	52	34	27	363	204	9
	65 - 69 years old	190	140	8	2	102	59	187	111	410	282	17	11	16	517	346	7
	70 - 74 years old	217	130	12	3	72	58	72	37	261	170	3	4	4	674	560	11
	75 years old and over	117	83	8	3	39	39	18	11	84	68	1	3	3	369	261	4
Female	15 - 19 years old	7	0	3	0	4	0	21	0	37	1	2	0	178	37	1	206
	20 - 24 years old	35	23	12	1	19	9	338	370	267	128	19	8	567	113	37	250
	25 - 34 years old	103	59	25	11	36	20	1185	1292	795	466	48	40	96	461	225	31
	35 - 44 years old	126	72	41	18	30	17	1106	635	1158	484	48	20	25	640	292	17
	45 - 54 years old	174	67	83	19	68	15	1338	407	1766	437	70	16	43	942	219	7
	45 54 years old	162	67	00	13	00	10	740	407	1477	437	10	10	40	1011	215	,
	55 - 64 years old	103	55	09	24	01	10	749	143	1477	203	47	9	30	1211	240	°
	65 - 69 years old	00	23	/6	/	51		114	17	538	6/	13	2		883	182	
	70 - 74 years old	80	12	44	3	24	5	38	2	358	30	8	0	3	/1/	128	4
	75 years old and over	37	8	19	3	18	2	18	3	70	9	1	0	1	319	44	2
Excess/d	leficiency count																
		All over the	country														
		Labour force	e.												Non-labour	force	
		Selfemplo	ed worker	Family wor	kor	Executive of	company or	Regular em	nlovee	Non-regula	remployee	Unomployn	ant				
		ben employ	ocu worker	r anni y wor	KCI	cornoration		negular em	proyee	Non regula	rempioyee	Chempioyn	iem				
				-		corportation										-	
		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	university	or higher	university	or higher	school	university	or higher	school
		589	438	75	43	55	125	1006	3635	1295	775	(83)	(29)	458	2808	1753	(72)
Male	15 - 19 years old	2	0	(1)	0	1	0	(36)	1	(104)	0	(1)	0	33	42	4	112
	20 - 24 years old	8	6	2	2	13	9	(142)	151	(170)	(18)	(13)	(4)	(50)	24	37	(229)
	25 - 34 years old	31	2	12	3	13	(3)	273	891	124	59	(17)	(9)	2	32	69	6
	35 - 44 years old	23	12	19	9	(6)	(3)	235	969	176	91	(13)	(5)	40	54	48	10
	45 - 54 years old	36	24	23	7	1	5	179	407	121	35	(6)	(9)	39	59	33	5
	55 - 64 years old	20					10	45	95	.2.1	26	(15)	(6)	27	100	56	ů
		55	50	0	0	(1)	10	40	00	10	110	(10)	(0)	27	100	001	3
	65 - 69 years old	3	59	2	2	0	15	5	34	18	110	(13)	0	10	41	201	
	70 - 74 years old	108	85	6	3	16	36	24	18	120	111	0	3	4	4 / 9	503	11
	75 years old and over	21	42	2	3	(10)	19	(1)	3	28	44	1	3	3	246	225	4
Female	15 - 19 years old	7	0	3	0	4	0	(4)	0	(106)	1	0	0	82	32	1	83
	20 - 24 years old	35	23	12	1	19	9	58	244	36	22	1	(1)	126	85	37	(137)
	25 - 34 years old	64	29	16	5	27	14	225	534	345	110	0	4	23	93	48	2
	35 - 44 years old	52	38	3	0	(3)	2	62	149	188	31	(1)	(4)	25	54	58	17
	45 - 54 years old	56	40	5	1	(5)	(2)	46	117	79	59	(3)	(1)	43	127	48	7
	55 - 64 years old	65	96	(10)	7	(5)	0	30	20	131	35	(10)	(0)	30	114	51	, p
	65 - 60 years ald	00	10	(10)		(3)			20	10		(10)	(2)	11	454	160	
	70 - 74 mars ald	6	19	4	0	0	8	9	9	10	23	-	2		404	102	
	10 - 14 years old	41	10	(2)	0	(8)	4	3	1	187	15	5	0	3	555	128	4
	75 years old and over	(8)	5	(27)	0	(3)	2	(5)	2	12	5	1	0	1	217	44	2

- * 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 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 -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.

Pattern A * Hokkaido only as an example

Collect	ion count (final samples)																		Ideal o	count of persons in case col	ortion onz	be made as	coording to	the popul	ation const	trustion										(
		Hokkaid	0																		Hokkaide	2														-
		Labour f	0000												Norrlabo	ur force		1			Labour fo	irce												Non-labour	force	
		Selfemp	loyed worker	Family w	orker	Executive of	f company or	Regular err	sployee	Non-regula	ar employee	Unemploy	nent	Т							Self empl	loyed worker	Family wo	rker	Executive of	f company or	Regular or	aplayee	Non-rogal:	ar employee	Unemployr	Dent		1		
						corporation																			corporation								. !	1		
		Bolow	University	Below	University	Below	University	Below	University	Below	University	Below	University	Attending	Bolow	University	Attending				Below	University	Below	University	Bolow	University	Below	University	Below	University	Bolow	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				university	or higher	university	or higher	university	or higher	university	or higher	university	or higher	university	or higher	school	university	or higher	school
		11	51 51	1 2	1 1	72	25	805	533	490	150	22	15	62	40	4 11	8 3	2			6	0 29	17	3	44	22	426	264	291	108	25	16	43	732	129	117
Male	15 - 19 years old		0 0				0	1		0	0	o		6		2	0	'	Malo	15 - 19 years old		0 0	0	0	0	0	1	0	4	0	0	°	3	3	0	45
	20 - 24 years old		1 1			2	0	12	5	7	0	2		6		2	3			20 - 24 years old		2 1	0	0	0	0	10	5	6	3	0	°	16	1 1	0	17
	25 - 34 years old		4 1					82	45	22	11	2		6		* ·	<u> </u>			25 - 34 years old		0 0	0	0	0	0	39	45	1	8	2	3	2	1 3	1	1 1
	35 - 44 years old	1 3	12 5				1 1	175	170	43	24	3		2	2	5 .	'			35 - 44 years old		3 2	0	0	5	5	57	50		5	3	2		1 1	2	
	45 - 54 years old	1 3	12 10			18	6	2/2	175	45	15			4	2		5			45 - 54 years old		9 6	0	0	9	6	81	51	6	4	3	2		8	2	0
	55 - 64 years old		9 8	5 6		14	7	46	36	28	20	0	1 1	0	2	5	5 C			55 - 64 years old		3 6	0	0	6	4	51	36	15	11	3	2		10	5	
	65 · 62) years old		5				1 1	7	2	16	12	0			2					65 - 69 years old	1	4 2	0	0	4	2	10	5	12	6	2	1 1	0	24	8	0
	70 years old and over		0 5			8	3	1	1	11	7	0		0	4	3 3	4	-		70 years old and over		9 4	0	0	1	3	7	3	12	6	-		0	165	52	0
remaie	15 - 19 years old				1 1											<u> </u>	·		reman	 15 · 19 years out 									2	0				1 1		39
	20 · 24 years det		2 2					13	10				1 3	23	1 2	£				20 · 24 years out	1 3	0 0				0	10						10	1		13
	25 - 34 years old		*					20	31	40	10		1 1							25 - 34 years old		3 2				0	32	20	12	10		1 1				
	15 - 51 man ald								11	10	16									15 - 51 man ald			Ĭ			1		1.2		16		i â				, i
	All a CA success and																			55 - CAusan ald							30		60	10	, i	, i				
	65 - 60 mmm ald									1										C5 - C0 man ald								i i	10							, i
	20 years old and over		5 1					2		23	1				5					20 years old and over		7 1		1		0		ő	10			ő	, i		23	
<u> </u>	to years and and over	-		· · · ·	· ·	+ *		+ ^										-		i - juno all'ana over	-		•			, v	· · ·	· ·		<u>* *</u>	<u> </u>		v		20	

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

Collec	tion count (final effective	samples)													Ideal o	ount of persons in case o	ollection c	n be made	according	to the popu	alation cos	struction						
		All over the	e country					Hokkaido						1			All over the	country					Hokkaido					
		Labour fore	:0		Non [*] labour	force	-	Labour fore	e		Non-labour	force	-	1			Labour fore	9		Non-labour	force		Labour fore	e		Non [*] labout	r force	_
																								L				
		Below	University	Attending	Below	University	Attending	Below	University	Attending	Below	University	Attending				Below	University	Attending	Below	University	Attending	Below	University	Attending	Below	University	Attending
		university	or higher	school	university	or higher	school	university	or higher	school	university	or higher	school	-			university	or higher	school	university	or higher	school	university	or higher	school	university	or higher	school
		26063	16081	1632	7928	3053	1036	1525	781	62	404	118	39				22053	11520	1206	15294	2778	2943	863	441	43	732	129	J 117
Male	15 · 19 years old	30	1	114	47	4	229	1	0	6	2	0	7		Male	15 · 19 years old	159	0	96	75	0	1103	5	0	3	3	0	45
	20 · 24 years old	3/9	348	367	52	38	187	24	10	0	ž,	3	4			20 · 24 years old	498	234	443	25	3	404	18	8	16		0	4 Y
	25 · 34 years old	2149	2522	68	130	105	42	112	01	0			3			25 - 34 years old	1424	1000	67	110	20	31	48	00	2	3	1 2	
	35 - 44 years old	2715	2751		101		10	202	210	4	10		2	L 1		45 - 54 years old	1960	1730	0	101	32		100	80	0	°,	-	
	55 - 64 years old	2426	1544	27	200	204		97	210	0	15	8				55 - 64 years old	2069	1458	0	253	124	0	84	59	0	10	1	. 0
	65 - 69 years old	914	605	16	517	346	7	33	28	1	29	9			N I	65 - 69 years old	795	377	0	510	162		32	15	0	24	1	a 0
	70 years old and over	904	609	7	1043	821	15	38	16	0	43	34	0		4	70 years old and over	1058	502	0	3462	1099	0	37	18	0	165	52	2 0
Female	e 15 · 19 years old	74	1	178	37	1	206	1	0	6	0	0	7		Female	15 · 19 years old	171	0	107	66	0	1022	6	0	4	3	(39
	20 · 24 years old	690	539	567	113	37	250	26	17	23	2	1	12	· ·		20 - 24 years old	471	240	442	20	3	346	17	9	16	1	c	J 13
	25 · 34 years old	2192	1888	96	461	225	31	111	54	2	20	5	0			25 - 34 years old	1387	1219	51	331	142	26	56	49	2	10	4	4 1
	35 · 44 years old	2509	1246	25	640	292	17	123	39	2	29	10	3			35 · 44 years old	2057	972	0	495	258	5	80	38	0	23	12	2 0
	45 - 54 years old	3499	961	43	942	219	7	152	28	1	50	3	1			45 - 54 years old	3095	748	0	697	178	5	127	31	0	28	7	/ 0
	55 - 64 years old	2606	510	30	1211	245	8	115	20	3	68	15	0			55 · 64 years old	2334	435	0	984	192	0	103	19	0	47	8	, O
	65 - 69 years old	858	127	11	883	182	7	41	4	0	53	6	0			65 - 69 years old	735	72	0	1057	69	0	29	3	0	53	2	1 0
	70 years old and over	715	77	4	1036	172	6	33	3	0	51	8	0	1		70 years old and over	1013	99	0	6897	452	0	40	4	0	344	2.7	3 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 2023

		All over th	e 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	previously	Attending	previously	Attending
		(persons)	graduated	graduated	graduated	graduated	graduated	graduated	school	graduated	school
		55801	5.2	1.1	2.8	31.3	18.7	1.3	22	32.3	5.
Male	15 - 19 years old	1408	0.0	0.0	0.0	0.1	0.1	0.0	0.2	0.1	2
	20 · 24 years old	1600	0.1	0.0	0.0	0.8	0.3	0.0	0.8	0.0	0
	25 · 34 years old	3341	0.2	0.0	0.1	4.4	0.7	0.2	0.1	0.3	0
	35 - 44 years old	3897	0.3	0.1	0.2	5.2	0.7	0.2	0.0	0.3	0
	45 - 54 years old	4821	0.7	0.1	0.5	6.1	0.7	0.2	0.0	0.4	0
	55 - 64 years old	3920	0.7	0.0	0.6	3.5	1.3	0.2	0.0	0.7	0
	65 - 69 years old	1843	0.5	0.0	0.2	0.4	1.0	0.0	0.0	1.2	0.
	70 years old and over	6085	1.0	0.1	0.4	0.3	1.1	0.0	0.0	8.1	0
Female	15 · 19 years old	1357	0.0	0.0	0.0	0.1	0.2	0.0	0.2	0.1	1.
	20 - 24 years old	1527	0.1	0.0	0.0	0.7	0.4	0.0	0.8	0.0	0.
	25 - 34 years old	3174	0.2	0.0	0.1	2.8	1.5	0.1	0.1	0.8	0.
	35 - 44 years old	3793	0.3	0.1	0.1	2.5	2.4	0.1	0.0	1.3	0.
	45 - 54 years old	4708	0.4	0.2	0.1	2.7	3.4	0.1	0.0	1.6	0
	55 - 64 years old	3948	0.3	0.2	0.2	1.4	2.8	0.1	0.0	2.1	0.
	65 - 69 years old	1928	0.1	0.1	0.1	0.2	0.9	0.0	0.0	2.0	0
	70 years old and over	8452	0.3	0.2	0.1	0.2	1.2	0.0	0.0	13.2	0.

The population produced in Reference (1)-I



* % 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>

			(0)			
		n (normana)	Regular	Non-regular		
		ii (persons)	employee	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		

Japanese Panel Study of Employment Dynamics 2023

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

				(%)
		n (x 10,000	Regular	Non-regular
		persons)	employee	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>

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

2.3

Japanese Panel Study of Employment Dynamics 2023

okkaido	Tohoku	Minami kanto	Kitakanto /koshin	Hokuriku	Tokai	Kinki	Chugoku/ Shikoku	Kyusyu/ Okinawa	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	2.2	2.2	2.3	1.9	1.4	1.6	2.4	1.8	2.

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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 Surve	У
Survey period	January 13 ~ February 7, 2023
3. Coverage of the Sur	rvey
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 Surve	ey e
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