

Explanation of terms

(1) Terms

- Early neonatal mortality : death in less than 1 week (7 days) of birth
- Fetal mortality : birth of a stillborn baby after 12 completed weeks of gestation
- Perinatal mortality : fetal death of 22 completed weeks of gestation and after, and early neonatal deaths

(2) Explanation of rates

1) Natality

• Live birth rate

Live birth rate by employment status and occupation (and age group) of father (mother)

$$= \frac{\text{Live births by employment status and occupation (and age group) of father (mother)}}{\text{Population by sex, employment status and occupation (and age group)}} \times 1,000$$

• Age-standardized live birth rate

Age-standardized live birth rate by employment status and occupation of father (mother)

$$= \frac{\sum \left[\frac{\text{Live birth rate by employment status and occupation and age group of father (mother)}}{\text{Population in the relevant age group of the standard population}} \times \text{Population in the relevant age group of the standard population} \right]}{\text{Total standard population of 15 years of age and over}}$$

2) General mortality

• Death rate

Death rate by sex, employment status and occupation (industry) (and age group)

$$= \frac{\text{Deaths by sex, employment status and occupation (industry) (and age group)}}{\text{Population by sex, employment status and occupation (industry) (and age group)}} \times 1,000$$

• Age-adjusted death rate

Age-adjusted death rate by sex, employment status and occupation (industry)

$$= \frac{\sum \left[\frac{\text{Death rate by sex, employment status and occupation (industry) and age group}}{\text{Population in the relevant age group of the standard population}} \times \text{Population in the relevant age group of the standard population} \right]}{\text{Total standard population of 15 years of age and over}}$$

3) Fetal mortality

• Fetal death rate

Total births = live births + fetal deaths

Fetal death rate by employment status and occupation of father (mother)

$$= \frac{\text{Fetal deaths by employment status and occupation of father (mother)}}{\text{Total births by employment status and occupation of father (mother)}} \times 1,000$$

4) Perinatal mortality

• Perinatal death rate

Perinatal death rate by employment status and occupation of father (mother)

$$= \frac{\text{Perinatal deaths by employment status and occupation of father (mother)}}{\text{Live births by employment status and occupation of father (mother) + Fetal deaths at 22 completed weeks and over of gestation by employment status and occupation of father (mother)}} \times 1,000$$

Early neonatal death rate by employment status and occupation of father (mother)

$$= \frac{\text{Early neonatal deaths by employment status and occupation of father (mother)}}{\text{Live births by employment status and occupation of father (mother)}} \times 1,000$$

5) Marriages

• Marriage rate

Marriage rate by employment status and occupation (and age group) of groom (bride)

$$= \frac{\text{Marriages by employment status and occupation (and age group) of groom (bride)}}{\text{Population by sex, employment status and occupation (and age group)}} \times 1,000$$

• Marriage rate for unmarried population

Marriage rate for unmarried population by employment status and occupation (and age group) of groom (bride)

$$= \frac{\text{Marriages by employment status and occupation (and age group) of groom (bride)}}{\text{Unmarried population by sex, employment status and occupation (and age group)}} \times 1,000$$

• Age-standardized marriage rate

Age-standardized marriage rate by employment status and occupation of groom (bride)

$$= \frac{\sum \left[\begin{array}{l} \text{Marriage rate by employment status and occupation and age group of groom (bride)} \\ \times \text{Population of the relevant age group of the standard population} \end{array} \right]}{\text{Total standard population of 15 years of age and over}}$$

• Age-standardized marriage rate for unmarried population

Age-standardized marriage rate for unmarried population by employment status and occupation of groom (bride)

$$= \frac{\sum \left[\begin{array}{l} \text{Marriage rate for unmarried population by employment status and occupation and age group of groom (bride)} \\ \times \text{Population of the relevant age group of the standard population} \end{array} \right]}{\text{Total standard population of 15 years of age and over}}$$

6) Divorces

• Divorce rate

Divorce rate by employment status and occupation (and age group) of husband (wife)

$$= \frac{\text{Divorces by employment status and occupation (and age group) of husband (wife)}}{\text{Population by sex, employment status and occupation (and age group)}} \times 1,000$$

• Divorce rate for married population

Divorce rate for married population by employment status and occupation (and age group) of husband (wife)

$$= \frac{\text{Divorces rate by employment status and occupation (and age group) of husband (wife)}}{\text{Married population by sex, employment status and occupation (and age group)}} \times 1,000$$

• Age-standardized divorce rate

Age-standardized divorce rate by employment status and occupation of husband (wife)

$$= \frac{\sum \left[\begin{array}{l} \text{Divorce rate by employment status and occupation and age group of husband (wife)} \\ \times \text{Population in the relevant age group of the standard population} \end{array} \right]}{\text{Total standard population of 15 years of age and over}}$$

• Age-standardized divorce rates for married population

Age-standardized divorce rates for married population by employment status and occupation of husband (wife)

$$= \frac{\sum \left[\begin{array}{l} \text{Divorce rate for married population by employment status and occupation and age group of husband (wife)} \\ \times \text{Population in the relevant age group of the standard population} \end{array} \right]}{\text{Total standard population of 15 years of age and over}}$$

Note: Fathers in natality, fetal and perinatal mortality are limited to children (dead fetuses) born in wedlock.

(3) Occupation and industry

Occupations and industries used in these statistics are in accordance with the statistical standards in Japan, “Japan Standard Occupational Classification (Major Group)” and “Japan Standard Industrial Classification (Major Group)”, and the classifications of occupation and industry (major classification) described in the left columns of the following table are represented by names of the occupation and industry described in the right columns.

Occupation

Occupational classification (Major group)	Name of occupation	Examples
A. Administrative and managerial workers	A. Administrative and managerial workers	Legislative officials, company presidents, branch managers, company officers, officers of companies and organizations, company directors and managers
B. Professional and engineering workers	B. Professional and engineering workers	System designers, doctors, lawyers, teachers, researchers, surveyors, counsellors, musicians, photographers
C. Clerical workers	C. Clerical workers	General affairs and human affairs workers, planning, reception and guidance clerical workers, secretaries and other clerical workers
D. Sales workers	D. Sales workers	Retail managers, wholesale managers, shop assistants, cashiers, real estate agents, insurance agents
E. Service workers	E. Service workers	Care workers, dental assistants, beauticians, cooks, restaurateurs, condominium management personnel, tourist guides
F. Security workers	F. Security workers	Self-defense officials, police officers, firefighters, prison guards, security staff
G. Agriculture, forestry and fishery workers	G. Agricultural, forestry and fishery workers	Agriculture workers, ship captains, plantmen, landscape gardeners, livestock farm workers
H. Manufacturing process workers	H. Manufacturing process workers	Machine assembly workers, repair works, painting workers, ironwork workers, sheet metal facility operators, turners, printing and bookbinding workers, projectionists
I. Transport and machine operation workers	I. Transport and machine operation workers	Electric train, bus and taxi drivers, navigation officers, conductors, crane operators, power plant workers, boiler operators
J. Construction and mining workers	J. Construction and mining workers	Carpenters, plasterers, scaffolding workers, pipe laying workers, electric construction workers, civil engineering workers, underground miners, gravel quarrying workers
K. Carrying, cleaning, packaging, and related workers	K. Carrying, cleaning, packaging, and related workers	Mail delivery workers, cargo handling and carrying workers, building cleaning workers, house cleaning workers, wrapping workers
L. Workers not classifiable by occupation	L. Occupation not stated	

Industry

Industrial classification (Major group)	Name of Industry	Examples
A. Agriculture and forestry	A. Agriculture and forestry	Rice farming, vegetable farming, daily cattle farming, pig and hog farming, gardening services, silviculture, pulp material production, charcoal burners
B. Fisheries	B. Fisheries	Trawl fisheries, angling and longline fisheries, fish aquaculture, pearl aquaculture, seaweed aquaculture
C. Mining and quarrying of stone and gravel	C. Mining and quarrying of stone and gravel	Iron ore mining, coal mining, natural gas production, stone quarrying, cobble-stone pits
D. Construction	D. Construction	Civil engineering work, road paving work, building work, electric work, building reform work
E. Manufacturing	E. Manufacturing	Manufacturing of food, woven fabrics, medicines, manufacturing of iron and steel, manufacturing of motor vehicles
F. Electricity, gas, heat supply and water	F. Electricity, gas, heat supply and water	Power stations, power substations, gasworks, gas distribution, water for end users and sewerage
G. Information and communications	G. Information and communications	Mobile phone services, television station, radio station, game software services, services incidental to internet, newspaper publishers, publishers
H. Transport and postal activities	H. Transport and postal activities	Railway transport, water transport, air transport, warehousing, transport agencies, packing and crating
I. Wholesale and retail trade	I. Wholesale and retail trade	General merchandise, building materials wholesalers, department stores, supermarkets, home improvement stores, gasoline stations, mail-order houses, door-to-door sales
J. Finance and insurance	J. Finance and insurance	Banking, credit associations, credit card businesses, investment management services, life insurance institutions
K. Real estate and goods rental and leasing	K. Real estate and goods rental and leasing	Real estate agencies, real estate lessors and managers, general goods leasing, automobile rental
L. Scientific research, professional and technical services	L. Scientific research, professional and technical services	Research institutes for natural sciences, lawyers' offices, business consultants, design services, advertising, veterinary services, architectural design services
M. Accommodation, food and beverage service industry	M. Accommodation, food and beverage service industry	Hotels, Japanese inns, restaurants, food delivery services
N. Living-related and personal services and amusement services	N. Living-related and personal services and amusement services	Laundries, hair-dressing and beauty salons, travel agencies, cinemas, fitness centers, amusement parks
O. Education, learning support	O. Education, learning support	Schools, citizen's public halls, libraries, museums, vocational guidance centers, supplementary tutorial schools
P. Medical, health care and welfare	P. Medical, health care and welfare	Hospitals, public health centers, homes for the elderly
Q. Compound services	Q. Compound services	Postal services, cooperative associations
R. Services (not classified elsewhere)	R. Services (not classified elsewhere)	Waste disposal business, automobile maintenance services, employment services, worker dispatching services, building maintenance services, shrines, foreign governments and international agencies in Japan
S. Government (except those classified elsewhere)	S. Government	National Diet, courts, central governments, local branches, prefectural governments, city and ward offices, town and village offices
T. Industries unable to classify	T. Industries not stated	