

## CHAPTER VIII: COMMUTING POPULATION

### 1. Proportion by Place of Work or Schooling

**The proportion of “Working in other municipality” among men is higher than the proportion among women.**

Observing the trends in the proportion by place of work or schooling, it shows that the proportion of “Working or attending school in other municipality” increased 1.0 percentage points (pp), from 23.6% in 2005 to 24.6% in 2010. Meanwhile, the proportion of “Working or attending school in same municipality” decreased 1.8 pp, from 39.5% in 2005 to 37.6% in 2010.

Examining the proportion of employed persons aged 15 and over by place of work, it sex and age group, it shows that the proportion of “Working in other municipality” among men exceeds 50% in each group aged 25 to 54, and the proportion of men is higher than that of women in each group aged 25 and over. As a result, the proportion of “Working in other municipality” among men is higher than the proportion among women. (Figure 8.1, Tables 8.1 and 8.2)

**Table 8.1 Trends in the Number of Population and Employed Persons Aged 15 and Over by Place of Work or Schooling: 2000 to 2010**

Place of work or schooling	Number (thousands)			Proportion (%)			Differences (percentage point)	
	2000 <sup>1)</sup>	2005 <sup>1)</sup>	2010	2000	2005	2010	2000- 2005	2005- 2010
Total	126,697	127,286	128,057	100.0	100.0	100.0	-	-
Working or attending school	81,532	78,232	74,222	65.2	63.1	62.3	-2.1	-0.9
In same municipality	50,893	48,929	44,877	40.7	39.5	37.6	-1.2	-1.8
At home	8,785	7,722	6,224	7.0	6.2	5.2	-0.8	-1.0
Not at home	42,108	41,207	38,653	33.7	33.3	32.4	-0.4	-0.8
In other municipality <sup>2)</sup>	30,639	29,303	29,345	24.5	23.6	24.6	-0.9	1.0
Same prefecture <sup>3)</sup>	24,677	23,427	21,950	19.7	18.9	19.6	-0.8	0.7
Other prefecture <sup>3)</sup>	5,962	5,876	5,563	4.8	4.7	5.0	-0.0	0.2
Not working or attending school	43,425	45,697	44,998	34.8	36.9	37.7	2.1	0.9
Not reported	1,741	3,357	8,838	-	-	-	-	-
(Recount)								
Employed (aged 15 and over) <sup>4)</sup>	62,978	61,506	59,611	100.0	100.0	100.0	-	-
In same municipality	36,635	35,959	32,628	58.2	58.5	56.2	0.3	-2.3
At home	8,785	7,722	6,224	13.9	12.6	10.7	-1.4	-1.8
Not at home	27,850	28,237	26,404	44.2	45.9	45.4	1.7	-0.5
In other municipality <sup>2)</sup>	26,343	25,547	25,475	41.8	41.5	43.8	-0.3	2.3
Same prefecture <sup>3)</sup>	21,236	20,461	19,200	33.7	33.3	35.0	-0.5	1.8
Other prefecture <sup>3)</sup>	5,108	5,086	4,832	8.1	8.3	8.8	0.2	0.5

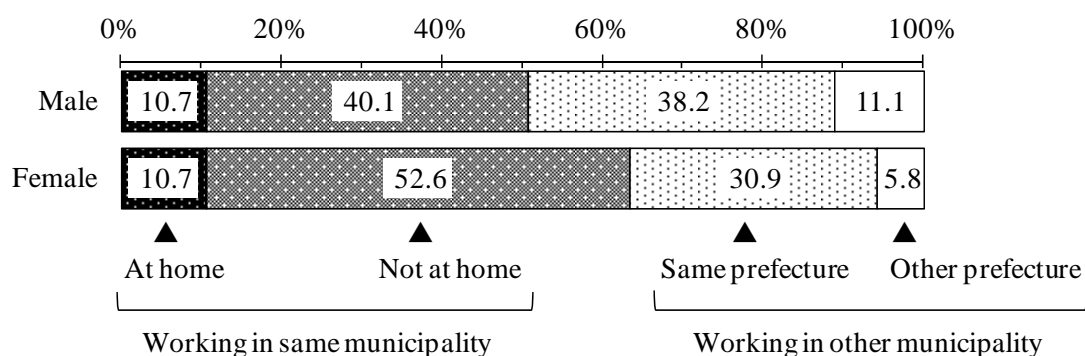
1) Excludes "Age not reported".

2) Includes "Name of municipality not reported".

3) The calculation for proportion is excluded "Not reported".

4) Includes "Place of work not reported".

**Figure 8.1 Proportion of Employed Persons Aged 15 and Over by Place of Work and Sex: 2010**



**Table 8.2 Proportion of Employed Persons Aged 15 and Over by Place of Work, Sex and Age (Five-Year Groups): 2010** (%)

Sex and age	Total	Working in same municipality			Working in other municipality		
		Total	At home	Not at home	Total	Same prefecture	Other prefecture
Both sexes	100.0	56.2	10.7	45.4	43.8	35.0	8.8
15-19 years old	100.0	59.0	1.1	57.9	41.0	34.6	6.4
20-24	100.0	51.4	1.4	49.9	48.6	39.5	9.1
25-29	100.0	47.1	2.5	44.6	52.9	42.5	10.4
30-34	100.0	47.8	3.9	43.9	52.2	41.9	10.3
35-39	100.0	49.6	5.1	44.5	50.4	40.3	10.1
40-44	100.0	51.4	6.1	45.4	48.6	38.5	10.1
45-49	100.0	53.7	7.1	46.6	46.3	36.7	9.6
50-54	100.0	57.1	9.2	47.9	42.9	34.4	8.6
55-59	100.0	60.1	12.3	47.8	39.9	31.8	8.1
60-64	100.0	64.2	18.2	46.0	35.8	28.4	7.5
65 and over	100.0	77.6	39.7	37.8	22.4	17.7	4.7
Male	100.0	50.7	10.7	40.1	49.3	38.2	11.1
15-19 years old	100.0	59.0	1.5	57.5	41.0	34.8	6.2
20-24	100.0	52.4	1.9	50.5	47.6	38.8	8.8
25-29	100.0	47.1	2.9	44.2	52.9	42.5	10.4
30-34	100.0	45.1	4.1	41.1	54.9	43.5	11.4
35-39	100.0	44.0	5.0	39.1	56.0	43.6	12.3
40-44	100.0	43.5	6.1	37.4	56.5	43.0	13.5
45-49	100.0	44.6	7.2	37.4	55.4	41.8	13.6
50-54	100.0	48.2	9.1	39.1	51.8	39.5	12.3
55-59	100.0	51.7	11.8	39.9	48.3	36.9	11.4
60-64	100.0	56.7	17.0	39.7	43.3	33.0	10.3
65 and over	100.0	73.4	37.0	36.5	26.6	20.4	6.2
Female	100.0	63.3	10.7	52.6	36.7	30.9	5.8
15-19 years old	100.0	59.0	0.7	58.3	41.0	34.5	6.6
20-24	100.0	50.3	1.0	49.3	49.7	40.3	9.4
25-29	100.0	47.1	1.9	45.2	52.9	42.5	10.4
30-34	100.0	51.5	3.6	47.8	48.5	39.6	8.9
35-39	100.0	57.5	5.2	52.3	42.5	35.6	7.0
40-44	100.0	61.8	6.0	55.8	38.2	32.6	5.6
45-49	100.0	64.9	7.0	57.9	35.1	30.5	4.6
50-54	100.0	68.2	9.3	59.0	31.8	27.9	3.9
55-59	100.0	71.6	13.0	58.6	28.4	25.0	3.5
60-64	100.0	75.4	19.9	55.5	24.6	21.4	3.1
65 and over	100.0	84.0	44.1	40.0	16.0	13.7	2.3

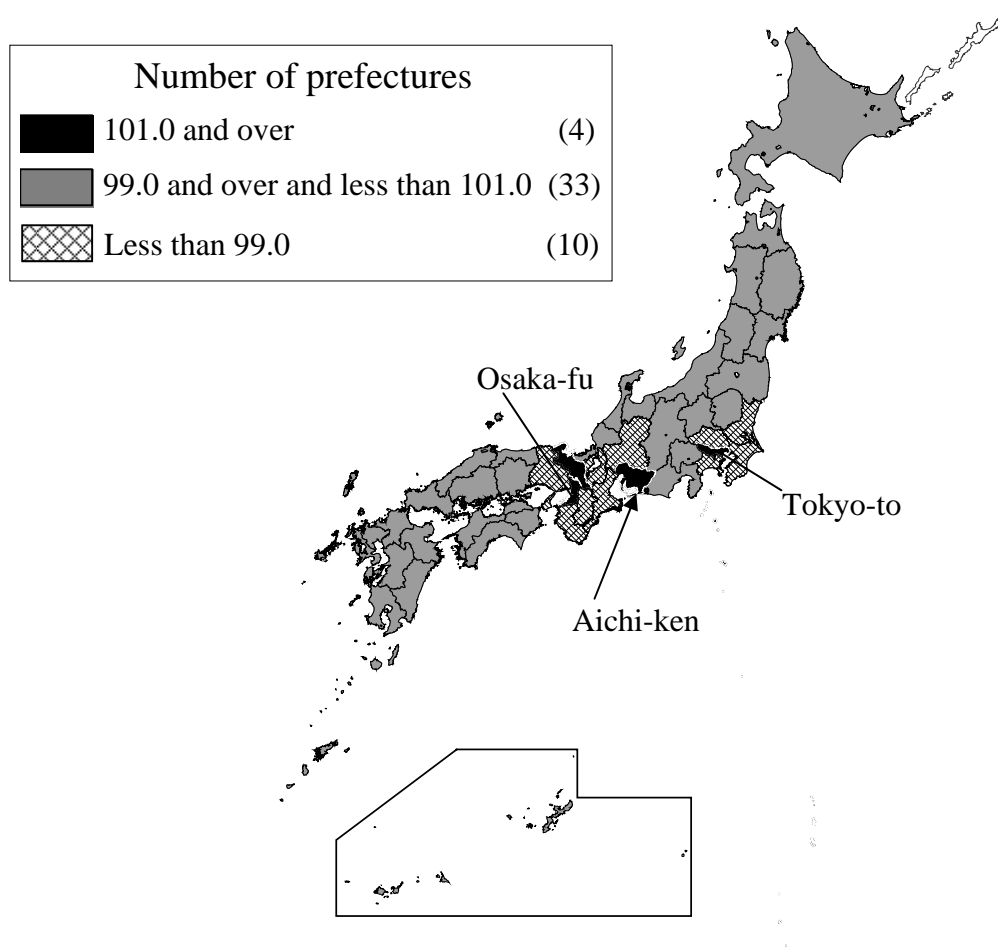
## 2. Ratio of Daytime Population to Nighttime Population

**The ratios of daytime population to nighttime population of Tokyo-to, Osaka-fu and Aichi-ken are high, meanwhile, neighboring prefectures show low ratios.**

According to the daytime population by prefecture, the daytime population of Tokyo-to is the largest (15.6 million), followed by Osaka-fu (9.3 million), Kanagawa-ken (8.3 million), Aichi-ken (7.5 million), Saitama-ken (6.4 million), etc.

Regarding the ratio of daytime population to nighttime population (daytime population per 100 nighttime population) by prefecture, the ratio of Tokyo-to is the highest (118.4), followed by Osaka-fu (104.7) and Aichi-ken (101.5). Meanwhile, neighboring prefectures of these three prefectures show low ratios, such as Saitama-ken (88.6), Chiba-ken (89.5) and Kanagawa-ken (91.2) (adjacent to Tokyo-to), Nara-ken (89.9) and Hyogo-ken (95.7) (adjacent to Osaka-fu) and Gifu-ken (96.0) (adjacent to Aichi-ken). (Figure 8.2, Table 8.3)

**Figure 8.2 Ratio of Daytime Population to Nighttime Population by Prefecture: 2010**



Note: Daytime population is calculated as follows:

Daytime population of A = (Population of A)

+ (Number of persons *not* living in A but working or attending school in A)

- (Number of persons living in A but working or attending school *not* in A)

**Table 8.3 Trends in the Daytime Population, Nighttime Population and Ratio of Daytime Population to Nighttime Population by Prefecture: 2000 to 2010**

Prefecture	Daytime population (thousands)			Nighttime population (thousands)			Ratio of Daytime population to Nighttime population		
	2000 <sup>1)</sup>	2005 <sup>1)</sup>	2010	2000 <sup>1)</sup>	2005 <sup>1)</sup>	2010	2000	2005	2010
Japan	126,697	127,286	128,057	126,697	127,286	128,057	100.0	100.0	100.0
Hokkaido	5,655	5,619	5,504	5,657	5,621	5,506	100.0	100.0	100.0
Aomori-ken	1,476	1,435	1,374	1,475	1,436	1,373	100.1	99.9	100.0
Iwate-ken	1,411	1,377	1,326	1,416	1,381	1,330	99.7	99.7	99.7
Miyagi-ken	2,366	2,357	2,352	2,364	2,354	2,348	100.1	100.1	100.2
Akita-ken	1,187	1,144	1,085	1,189	1,145	1,086	99.9	99.9	99.9
Yamagata-ken	1,243	1,215	1,167	1,244	1,216	1,169	99.9	99.9	99.8
Fukushima-ken	2,122	2,082	2,021	2,126	2,090	2,029	99.8	99.6	99.6
Ibaraki-ken	2,892	2,886	2,887	2,985	2,973	2,970	96.9	97.0	97.2
Tochigi-ken	1,993	1,998	1,990	2,004	2,013	2,008	99.4	99.3	99.1
Gumma-ken	2,018	2,021	2,005	2,020	2,023	2,008	99.9	99.9	99.9
Saitama-ken	5,985	6,159	6,373	6,925	7,036	7,195	86.4	87.5	88.6
Chiba-ken	5,182	5,340	5,560	5,915	6,034	6,216	87.6	88.5	89.5
Tokyo-to	14,667	14,978	15,576	12,017	12,416	13,159	122.0	120.6	118.4
Kanagawa-ken	7,634	7,905	8,254	8,475	8,753	9,048	90.1	90.3	91.2
Niigata-ken	2,474	2,428	2,375	2,473	2,426	2,374	100.0	100.1	100.0
Toyama-ken	1,117	1,108	1,091	1,120	1,111	1,093	99.7	99.7	99.8
Ishikawa-ken	1,180	1,177	1,172	1,176	1,173	1,170	100.3	100.3	100.2
Fukui-ken	831	821	807	829	820	806	100.3	100.2	100.1
Yamanashi-ken	881	876	855	888	884	863	99.2	99.1	99.0
Nagano-ken	2,213	2,193	2,149	2,212	2,195	2,152	100.1	99.9	99.9
Gifu-ken	2,027	2,019	1,998	2,109	2,106	2,081	96.1	95.9	96.0
Shizuoka-ken	3,763	3,783	3,760	3,767	3,787	3,765	99.9	99.9	99.9
Aichi-ken	7,131	7,341	7,521	7,016	7,219	7,411	101.6	101.7	101.5
Mie-ken	1,811	1,824	1,820	1,857	1,865	1,855	97.6	97.8	98.1
Shiga-ken	1,290	1,327	1,363	1,342	1,379	1,411	96.1	96.2	96.6
Kyoto-fu	2,643	2,651	2,668	2,630	2,631	2,636	100.5	100.8	101.2
Osaka-fu	9,308	9,241	9,281	8,789	8,759	8,865	105.9	105.5	104.7
Hyogo-ken	5,276	5,299	5,348	5,547	5,570	5,588	95.1	95.1	95.7
Nara-ken	1,262	1,259	1,260	1,441	1,419	1,401	87.6	88.7	89.9
Wakayama-ken	1,046	1,012	983	1,070	1,035	1,002	97.8	97.8	98.1
Tottori-ken	614	607	589	612	606	589	100.2	100.2	100.0
Shimane-ken	760	741	718	761	741	717	99.9	99.9	100.0
Okayama-ken	1,949	1,949	1,943	1,950	1,950	1,945	99.9	99.9	99.9
Hiroshima-ken	2,886	2,872	2,869	2,876	2,863	2,861	100.3	100.3	100.3
Yamaguchi-ken	1,518	1,482	1,444	1,528	1,491	1,451	99.4	99.4	99.5
Tokushima-ken	822	808	783	824	810	785	99.8	99.7	99.7
Kagawa-ken	1,025	1,013	998	1,022	1,011	996	100.2	100.2	100.2
Ehime-ken	1,494	1,469	1,433	1,493	1,467	1,431	100.1	100.1	100.1
Kochi-ken	812	795	763	813	796	764	99.9	99.9	99.9
Fukuoka-ken	5,014	5,030	5,078	5,006	5,026	5,072	100.2	100.1	100.1
Saga-ken	873	866	852	877	866	850	99.6	100.0	100.2
Nagasaki-ken	1,513	1,474	1,423	1,516	1,478	1,427	99.8	99.7	99.8
Kumamoto-ken	1,851	1,833	1,810	1,858	1,840	1,817	99.6	99.6	99.6
Oita-ken	1,220	1,207	1,197	1,220	1,206	1,197	100.0	100.1	100.0
Miyazaki-ken	1,169	1,152	1,136	1,170	1,152	1,135	100.0	100.0	100.0
Kagoshima-ken	1,784	1,752	1,704	1,785	1,753	1,706	99.9	100.0	99.9
Okinawa-ken	1,309	1,361	1,392	1,309	1,361	1,393	100.0	100.0	100.0

1) Excludes "Age not reported".