1-1 Mobility Changes in Quality and Quantity

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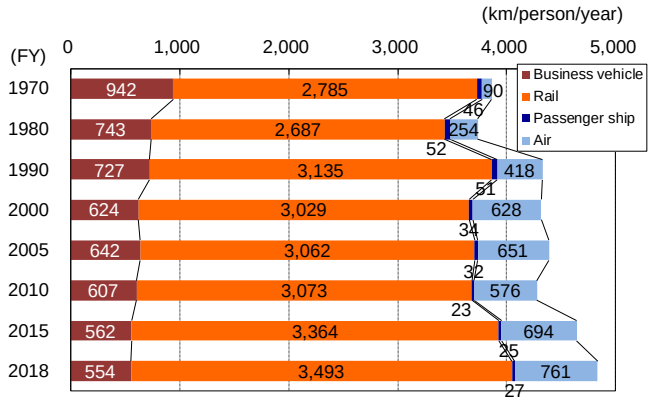
This section shows the basic statistics on the recent trends of passenger and freight transport. Regarding the passenger transport, the distance traveled per capita has risen and fallen in a cyclic manner, and the per capita vehicle-kilometers travelled by private cars has begun to increase again after remaining flat briefly. From the latest nationwide person trip survey, interesting trends are observed such as increases in the trip generation rate of the elderly and in the car modal shares for the elderly and females, rise in the number of private trips, and decrease in the car modal share for young males. Regarding freight transport, both tonnage and ton-kilometer transported per capita have decreased over the last several decades.

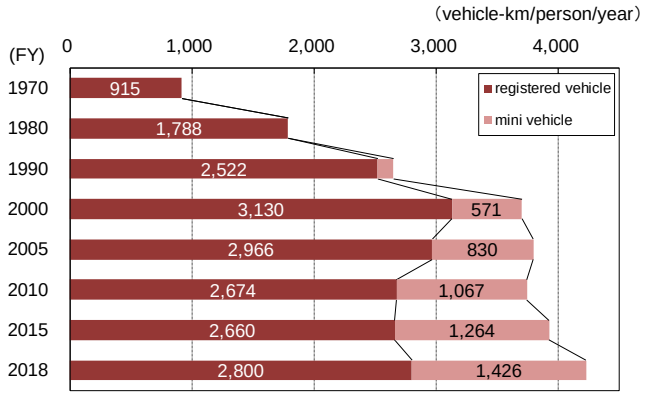
☐ Annual passenger-kilometers traveled per capita are on the rise for rail and air travel, with the rail in FY 2018 recording highs. Those by business vehicles and passenger ships are in a long and gradual decline, while the latter has remained almost unchanged for nearly a decade. Annual vehicle-kilometers of passenger car increased rapidly until around 2000, and then the growth has slowed down. More than one-third of it is attributed to mini vehicles. (Figures 1 and 2)

Figure 1 Annual Passenger-kilometers Traveled per Capita



Note: Corrected and estimated values are included.
Data source: Transportation-related statistics (MLIT)

Figure 2 Annual per Capita Vehicle-kilometers Traveled by Private Cars



Note: Statistics on light vehicle did not exist before FY 1986. Corrected and estimated values are included.
Data source: Survey on Motor Vehicle Transport, Survey on Motor Vehicle Fuel Consumption (MLIT)

☐ The freight tonnage per capita by rail has been decreasing since around 1970, those by freight vehicle and coastwide vessel are also in a declining trend since the 1990s, and has remained roughly flat in recent years. The ton-kilometers transported per capita by freight vehicles overtook coastwise vessels in the early 2000s, with small increases and/or decreases for all modes in recent years. (Figures 3 and 4)

Figure 3 Annual Freight Tonnage Transported per Capita

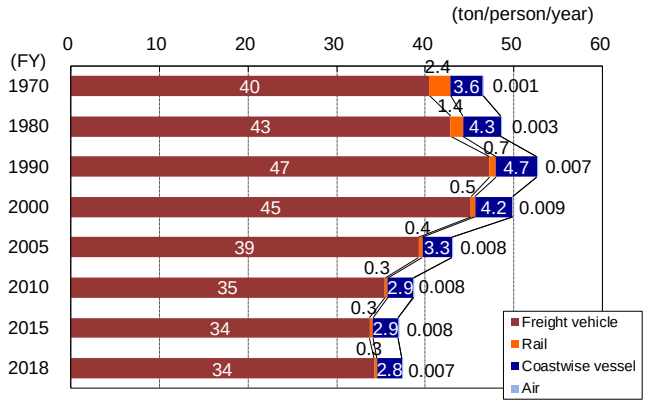
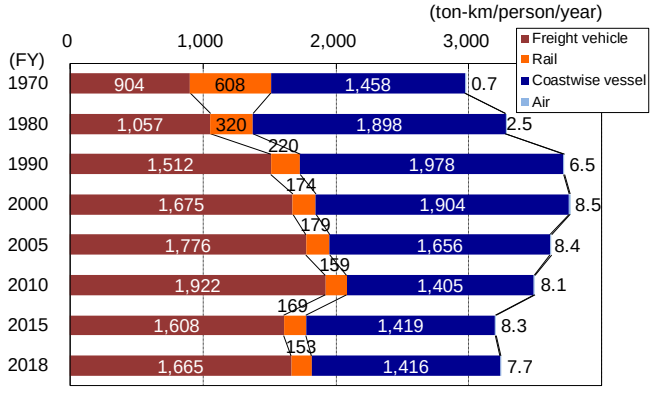


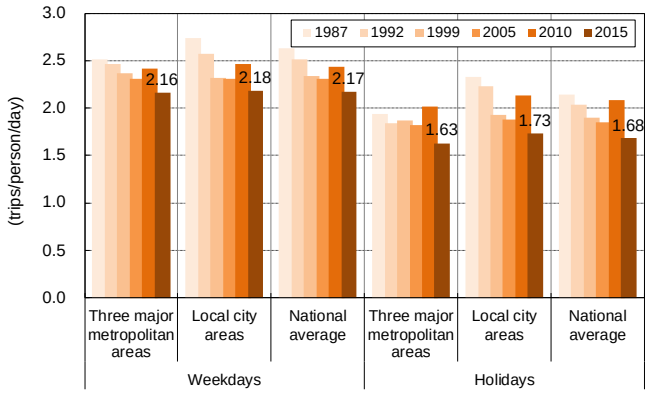
Figure 4 Annual Freight Ton-kilometers Transported per Capita



Note: Freight vehicles do not include private light vehicles in any year, and include business mini vehicles since FY 1987. Corrected and estimated values are included.
Data source: Transportation-related statistics (MLIT)

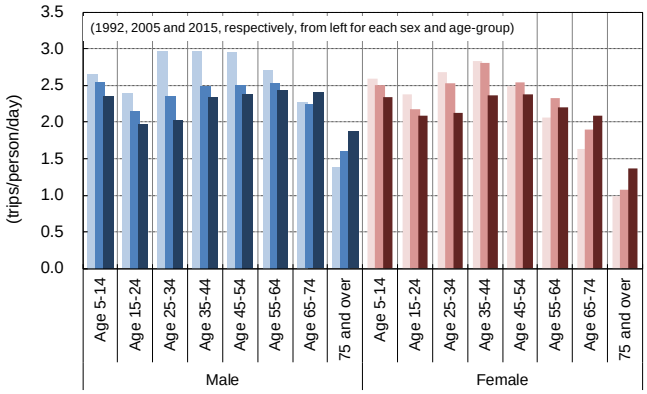
☐ Trip generation rate from the Nationwide Person Trip Survey has been decreasing, except for the 2020 survey which shows a different tendency. By age-group, it has been decreasing among males under 65 years old and females under 45 years old and increasing among the older age-groups. (Figures 5 and 6)

Figure 5 Trip Generation Rate



Data source: The 6th Nationwide Person Trip Survey (MLIT)

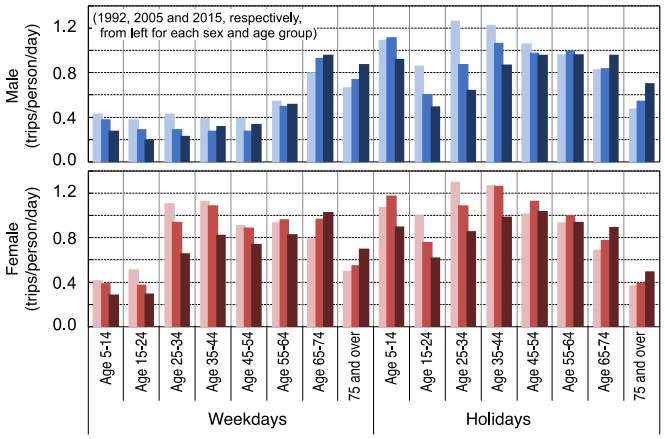
Figure 6 Trip Generation Rate by Age-group (Nationwide, Weekdays)



Data source: The 6th Nationwide Person Trip Survey (MLIT)

Figure 7 Trip Generation Rate for Private Purpose by Age-group (Nationwide)

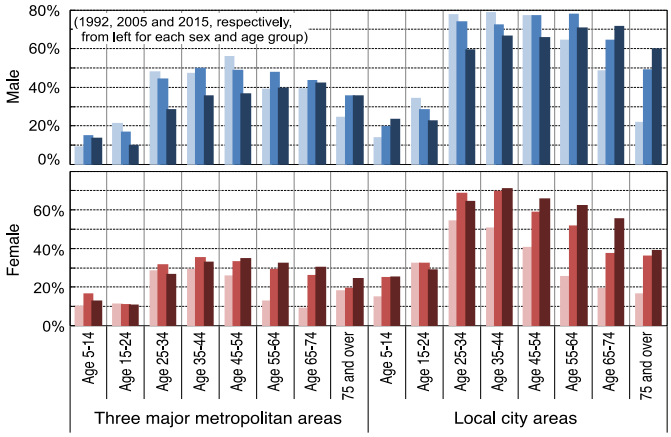
■ Declining for the young and middle-aged and increasing for the elderly, regardless of sex and weekdays/holidays.



Data source: The 6th Nationwide Person Trip Survey (MLIT)

Figure 8 Modal Share of Car by Age-group (All Purposes, Weekdays)

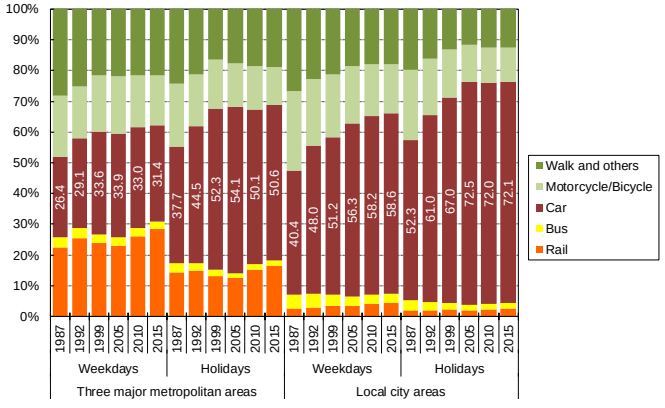
■ Increasing for elderly men and for women of wider age-groups and decreasing for young and middle-aged men.



Data source: The 6th Nationwide Person Trip Survey (MLIT)

Figure 9 Modal Share (Representative Modes, All Purposes)

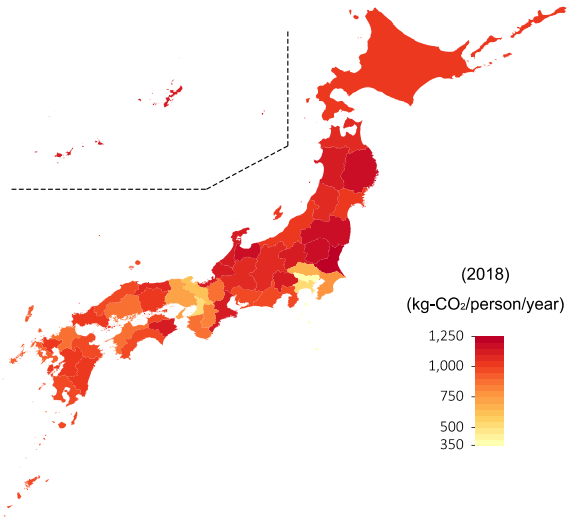
■ Car modal share has plateaued, and is already in decline in three major metropolitan areas (especially on weekdays).



Data source: The 6th Nationwide Person Trip Survey (MLIT)

Figure 10 CO_2 Emissions from Private Cars by Prefectures (per Capita)

■ Tokyo, Osaka and surrounding prefectures emit less CO_2. The tendency of “east high, west low” can also be seen.



Data source: Survey on Motor Vehicle Fuel Consumption (MLIT)