

6.01 Changes in number of facilities emitting soot and smoke

(Unit: Number of Facilities)

	Apparatus exhausting soot and smoke							Total
	Boiler	Diesel engine	Waste incinerator	Metal-heating furnace	Drying furnace	Metal-Melting furnace	Others	
FY1991	127,536	12,185	9,321	8,555	7,634	4,649	12,980	182,860
1992	129,637	13,642	10,569	8,503	7,606	4,625	12,608	187,190
1993	131,314	17,170	10,809	8,415	7,570	4,631	13,525	193,434
1994	133,546	18,258	11,142	8,319	7,651	4,618	9,669	193,203
1995	136,094	18,939	11,556	8,266	7,742	4,677	14,392	201,666
1996	137,089	20,250	10,939	8,184	7,773	4,579	14,349	203,163
1997	138,803	21,223	10,924	8,367	7,813	4,658	14,657	206,445
1998	140,830	19,313	10,372	8,385	7,910	4,556	17,438	208,804
1999	141,047	25,541	10,116	8,300	7,760	4,778	16,575	214,117
2000	137,149	26,063	9,102	8,043	7,629	4,661	22,055	214,702
2001	137,191	26,684	8,861	7,761	7,536	4,622	22,165	214,820
2002	141,149	28,115	7,361	7,433	7,480	4,394	19,229	215,161
2003	140,150	29,901	6,912	7,431	7,563	4,300	17,900	214,157
2004	141,317	31,425	6,788	7,430	7,485	4,312	18,197	216,954
2005	142,070	32,722	6,584	7,438	7,430	4,270	18,188	218,702
2006	141,466	32,608	6,391	7,478	7,371	4,242	18,958	218,514
2007	140,865	32,851	6,304	7,434	7,352	4,285	19,297	218,388
2008	141,787	33,195	6,151	7,528	7,272	4,320	19,755	220,008
2009	140,132	33,633	5,985	7,597	7,185	4,264	19,899	218,695
2010	138,931	33,725	5,889	7,557	7,057	4,105	19,924	217,188
2011	137,659	35,226	5,763	7,547	6,983	4,089	20,534	217,801
2012	136,487	36,065	5,633	7,562	6,900	3,948	20,537	217,132
2013	136,154	36,965	5,461	7,445	6,889	3,853	20,788	217,555
2014	136,470	36,745	5,311	7,393	6,801	3,849	20,617	217,186
2015	134,926	37,899	5,174	7,370	6,732	3,800	20,799	216,700

Note:

From FY 1991 to FY1999, figures are the number of facilities subject to Air Pollution Control Law, including ones related to Electricity Business Act and Gas Business Act.

In FY 2000 and onward, figures are number of facilities subject to Air Pollution Control Law (including ones related to Electricity Business Act and Gas Business and Mine Safety Act).

Source: "Survey on the Enforcement of the Air Pollution Control Act," Ministry of the Environment

6.02 Number of facilities emitting soot and smoke by prefecture

(Unit: Number of facilities)

	FY2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Hokkaido	16,475	16,362	16,516	16,545	16,439	16,440	16,410	16,389	16,245	16,259	16,164
Aomori	3,732	3,635	3,620	3,665	3,557	3,543	3,510	3,530	3,473	3,563	3,566
Iwate	3,182	3,166	3,090	3,203	3,168	3,147	3,214	3,189	3,252	3,025	3,297
Miyagi	4,458	4,331	4,368	4,334	4,310	4,281	4,265	4,294	4,321	4,254	4,273
Akita	2,555	2,573	2,604	2,579	2,608	2,590	2,585	2,642	2,667	2,659	2,647
Yamagata	2,976	2,864	2,873	2,814	2,765	2,754	2,756	2,715	2,746	2,724	2,719
Fukushima	4,683	4,674	4,721	4,716	4,669	4,637	4,628	4,673	4,740	4,569	4,554
Ibaraki	4,369	4,433	4,338	5,936	5,932	6,140	6,363	5,970	5,928	5,900	5,776
Tochigi	4,927	4,953	4,871	4,491	4,472	4,181	4,359	4,353	4,302	4,071	4,511
Gunma	3,995	3,789	3,785	3,781	3,844	3,840	3,970	3,988	3,987	4,013	4,153
Saitama	7,575	7,499	7,451	7,381	7,248	7,155	7,198	7,187	7,197	7,250	7,210
Chiba	7,342	7,488	7,224	7,219	7,220	7,130	7,281	7,182	7,220	7,435	7,174
Tokyo	14,441	14,784	14,324	14,398	14,425	14,106	14,256	14,159	14,387	14,456	14,525
Kanagawa	9,949	10,055	9,942	9,872	9,849	9,711	9,844	9,745	9,840	9,935	9,762
Niigata	5,474	5,403	5,498	5,500	5,465	5,518	5,494	5,650	5,711	5,766	5,778
Toyama	3,062	3,017	3,012	3,048	3,077	3,102	3,100	3,210	3,264	3,156	3,141
Ishikawa	2,849	2,845	2,814	2,793	2,782	2,752	2,715	2,669	2,691	2,660	2,633
Fukui	2,064	2,012	2,037	2,022	1,996	1,983	1,989	1,877	1,811	1,870	1,879
Yamanashi	2,229	2,177	2,132	2,121	2,113	2,107	2,157	2,119	2,098	2,145	2,122
Nagano	5,058	4,937	5,058	5,089	5,071	5,058	5,046	5,065	5,109	5,195	5,155
Gifu	4,096	4,028	4,084	4,097	4,077	4,065	4,282	4,337	4,306	4,248	4,273
Shizuoka	7,517	7,585	7,963	7,903	7,714	7,650	7,554	7,504	7,474	7,463	7,411
Aichi	14,634	14,541	14,678	14,653	14,622	14,279	14,176	14,063	14,034	14,122	14,118
Mie	4,626	4,759	4,550	4,608	4,595	4,590	4,564	4,525	4,486	4,346	4,325
Shiga	3,625	3,457	3,486	3,579	3,258	3,279	3,225	3,233	3,292	3,325	3,295
Kyoto	4,483	4,438	4,451	4,335	4,269	4,215	4,130	3,948	3,939	3,976	3,942
Osaka	13,219	13,441	13,310	13,439	13,452	13,279	13,218	13,161	13,193	13,327	13,230
Hyogo	9,382	9,486	9,618	9,723	9,647	9,499	9,517	9,517	9,424	9,379	9,354
Nara	1,697	1,676	1,691	1,702	1,718	1,719	1,722	1,713	1,732	1,759	1,775
Wakayama	1,726	1,712	1,724	1,740	1,726	1,736	1,669	1,665	1,701	1,774	1,747
Tottori	1,080	1,063	1,079	1,073	1,070	1,055	1,052	1,067	1,063	1,081	1,070
Shimane	1,344	1,514	1,566	1,565	1,523	1,594	1,641	1,640	1,668	1,705	1,713
Okayama	3,751	3,964	3,916	4,000	4,082	4,032	4,036	4,019	3,904	3,903	3,493
Hiroshima	4,866	4,850	4,829	4,783	4,773	4,735	4,689	4,657	4,647	4,646	4,586
Yamaguchi	3,304	3,351	3,347	3,338	3,317	3,323	3,296	3,273	3,307	3,223	3,277
Tokushima	1,567	1,461	1,489	1,493	1,497	1,503	1,521	1,512	1,515	1,510	1,514
Kagawa	2,203	2,170	2,144	2,135	2,003	2,026	1,956	2,036	1,999	1,997	2,016
Ehime	2,396	2,563	2,534	2,515	2,498	2,510	2,391	2,485	2,450	2,437	2,434
Kochi	1,097	1,097	1,123	1,097	1,115	1,128	1,138	1,157	1,165	1,188	1,193
Fukuoka	7,063	6,845	6,824	6,848	6,933	6,906	6,868	6,964	7,030	6,729	6,723
Saga	1,365	1,363	1,340	1,341	1,341	1,312	1,313	1,323	1,339	1,351	1,338
Nagasaki	1,796	1,821	1,808	1,880	1,882	1,876	1,911	1,891	1,921	1,923	1,935
Kumamoto	2,892	2,747	2,810	2,876	2,768	2,800	2,853	2,837	2,891	2,733	2,737
Oita	1,798	1,833	1,885	1,877	1,861	1,890	1,891	1,902	1,887	1,896	1,899
Miyazaki	1,642	1,671	1,688	1,698	1,680	1,692	1,711	1,724	1,741	1,783	1,773
Kagoshima	2,811	2,720	2,735	2,730	2,754	2,759	2,774	2,783	2,813	2,845	2,845
Okinawa	1,387	1,401	1,438	1,473	1,510	1,542	1,563	1,590	1,645	1,612	1,645
Nationwide	218,702	218,514	218,388	220,008	218,695	217,169	217,801	217,132	217,555	217,186	216,700

Note:

In FY2000 and onward, data were taken from facilities subject to Air Pollution Control Law (including ones related to Electricity Business Act, Gas Business Act and Mine Safety Act).

Source: "Survey on the Enforcement of the Air Pollution Control Act," Ministry of the Environment

6.03 Changes in of particulate-discharging facilities (Ordinary particulate/specified particulates)

(Unit: Number of facilities)

	Ordinary-particulate discharging facilities						Specified-particulate discharging facilities							
	Conveyor	Crusher/ Gridding mill	Accumulation on the grounds	Sieve	Coke oven	Total	Grinder	Cutting machine	Mixer	Press	Cutting machine	Crusher/ Gridding mill	Others	Total
FY1990	29,054	8,412	8,351	4,586	97	50,500	622	571	428	279	274	171	324	2,669
1991	30,828	8,706	8,532	4,770	107	52,943	627	560	406	268	260	159	313	2,593
1992	31,839	8,930	8,641	4,972	111	54,493	638	534	364	250	225	145	301	2,457
1993	32,345	9,151	8,770	5,075	107	55,448	602	520	352	256	221	142	253	2,346
1994	33,244	9,379	8,945	5,223	109	56,900	574	505	324	248	218	139	244	2,252
1995	33,872	9,569	9,032	5,328	108	57,909	555	495	311	249	216	131	229	2,186
1996	34,430	9,763	9,209	5,476	107	58,985	551	490	296	233	207	143	221	2,141
1997	34,818	9,782	9,269	5,533	100	59,502	558	467	303	237	194	136	224	2,119
1998	35,419	9,905	9,516	5,661	106	60,607	549	431	280	232	164	134	216	2,006
1999	34,973	9,962	9,539	5,676	99	60,249	507	414	262	223	157	133	203	1,899
2000	36,234	10,306	9,852	5,884	93	62,369	315	375	207	205	136	117	201	1,556
2001	36,847	10,465	10,217	6,009	95	63,633	199	340	157	164	107	99	170	1,236
2002	37,400	10,651	10,261	6,110	92	64,514	174	303	143	151	99	90	177	1,137
2003	37,885	10,726	10,464	6,267	95	65,437	119	250	123	137	78	72	150	929
2004	37,666	10,746	10,728	6,321	95	65,556	68	145	66	103	46	33	94	555
2005	37,536	10,764	10,770	6,439	101	65,610	4	16	2	61	0	0	11	94
2006	37,823	10,758	10,946	6,506	101	66,134	0	5	0	1	0	0	0	6
2007	38,521	10,611	10,988	6,378	96	66,594	0	0	0	0	0	0	0	0
2008	38,935	10,596	11,126	6,528	97	67,282	0	0	0	0	0	0	0	0
2009	39,346	11,268	10,659	6,644	85	68,002	0	0	0	0	0	0	0	0
2010	39,296	10,476	11,383	6,614	86	67,855	0	0	0	0	0	0	0	0
2011	39,536	10,353	11,408	6,582	85	67,964	0	0	0	0	0	0	0	0
2012	40,290	10,382	11,607	6,691	78	69,048	0	0	0	0	0	0	0	0
2013	40,512	10,366	11,694	6,674	95	69,341	0	0	0	0	0	0	0	0
2014	41,179	10,304	11,834	6,671	96	70,084	0	0	0	0	0	0	0	0
2015	40,690	10,130	11,923	6,557	88	69,388	0	0	0	0	0	0	0	0

Note:

In 1990, the number of ordinary-particulate discharging facilities is that of facilities subject to Air Pollution Control Law, from 1991 to 1999, ones subject to Air Pollution Control Law including the ones subject to Electricity Business Act and Gas Business Act, since 2000, those and the ones subject to Mine Safety Act.

Source: "Survey on the Enforcement of the Air Pollution Control Law," Ministry of the Environment

6.04 Prefectural number of facilities discharging ordinary particulates

(Unit: Number of facilities)

	FY2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Hokkaido	4,445	4,511	4,545	4,550	4,529	4,498	4,356	4,344	4,270	4,280	4,199
Aomori	1,274	1,438	1,557	1,577	1,687	1,685	1,694	1,699	1,675	1,643	1,632
Iwate	1,415	1,425	1,213	1,408	1,514	1,513	1,529	1,535	1,557	1,485	1,591
Miyagi	703	694	685	676	651	674	810	977	691	731	706
Akita	683	675	676	655	688	615	550	569	522	526	527
Yamagata	763	780	775	761	736	705	667	660	663	675	666
Fukushima	1,642	1,614	1,519	1,586	1,582	1,647	1,664	1,660	1,781	1,737	1,728
Ibaraki	2,593	2,643	2,687	2,537	2,465	2,378	2,401	2,435	2,449	2,427	2,391
Tochigi	1,481	1,523	1,534	1,624	2,543	2,508	2,520	2,517	2,526	2,569	2,590
Gunma	599	613	611	619	631	569	524	626	664	671	670
Saitama	1,351	1,323	1,348	1,347	1,369	1,435	1,452	1,461	1,481	1,443	1,425
Chiba	1,387	1,478	1,924	1,921	1,923	1,949	1,999	1,979	2,029	2,127	2,116
Tokyo	1,576	1,521	1,463	1,431	1,446	1,453	1,458	1,469	1,490	1,493	1,531
Kanagawa	1,971	1,948	1,947	1,946	1,938	1,946	1,975	1,971	1,981	1,990	1,947
Niigata	827	830	814	760	759	816	798	829	822	828	829
Toyama	1,088	1,086	1,086	1,120	1,141	1,151	1,154	1,160	1,164	1,177	1,197
Ishikawa	684	668	686	692	709	705	703	707	692	691	693
Fukui	618	627	604	563	543	541	513	476	456	481	504
Yamanashi	571	564	557	578	592	590	562	585	597	596	609
Nagano	1,438	1,467	1,425	1,439	1,422	1,353	1,373	1,380	1,388	1,393	1,355
Gifu	741	762	778	792	807	817	821	819	823	840	866
Shizuoka	927	950	930	919	921	894	968	948	1,004	1,038	1,067
Aichi	4,136	4,206	4,377	4,342	4,411	4,470	4,522	4,625	4,533	4,670	4,714
Mie	1,548	1,568	1,572	1,588	1,613	1,686	1,716	1,734	1,745	1,704	1,695
Shiga	572	598	442	519	500	489	482	485	492	499	496
Kyoto	523	547	550	575	585	596	582	588	607	709	712
Osaka	1,500	1,240	1,261	1,284	1,235	1,239	1,199	1,406	1,403	1,584	1,590
Hyogo	5,138	5,136	5,099	5,200	5,223	5,204	5,119	5,249	5,117	4,993	4,937
Nara	209	209	209	225	229	231	295	298	304	305	312
Wakayama	1,473	1,414	1,486	1,554	1,479	1,427	1,472	1,475	1,501	1,499	1,506
Tottori	209	216	236	263	264	269	264	422	386	393	396
Shimane	610	631	634	632	640	588	582	608	613	606	601
Okayama	2,290	2,337	2,403	2,444	2,446	2,487	2,482	2,493	2,597	2,632	2,637
Hiroshima	2,507	2,530	2,452	2,501	2,485	2,394	2,438	2,397	2,970	3,010	2,991
Yamaguchi	1,675	1,723	1,633	1,716	1,761	1,769	1,733	1,773	1,786	2,091	2,112
Tokushima	688	730	740	746	743	728	738	743	742	714	751
Kagawa	924	929	1,001	1,007	958	963	966	946	941	953	991
Ehime	1,048	1,174	1,189	1,178	1,182	1,109	1,151	1,119	1,085	1,065	1,065
Kochi	498	502	538	538	536	808	784	780	746	760	757
Fukuoka	3,925	3,883	3,893	3,867	3,937	3,673	3,666	3,654	3,686	3,688	3,637
Saga	510	526	526	513	515	491	496	494	487	454	425
Nagasaki	1,035	1,039	1,011	1,009	832	988	931	1,047	982	999	1,001
Kumamoto	893	907	943	1,009	771	792	791	805	796	813	808
Oita	2,677	2,689	2,749	2,736	2,753	2,725	2,750	2,727	2,758	2,758	2,049
Miyazaki	734	729	737	747	706	678	691	706	663	668	675
Kagoshima	1,173	1,186	1,194	1,220	1,216	1,216	1,224	1,215	1,192	1,173	1,166
Okinawa	338	345	355	368	386	393	399	453	484	503	525
Nationwide	65,610	66,134	66,594	67,282	68,002	67,855	67,964	69,048	69,341	70,084	69,388

Note:

In FY 2000 and onward, figures are the number of facilities subject to Air Pollution Control Law (including ones related to Electricity Business Act, Gas Business Act and Mine Safety Act).

Source: "Survey on the Enforcement of the Air Pollution Control Law," Ministry of the Environment

6.05 Air pollutant emissions (from Stationary sources)

(Unit: t)

	SOx emission	NOx emission	Soot and dust emission
FY 1978	1,315,637	870,924	—
1979	1,248,037	843,572	—
1980	1,157,837	818,667	—
1981	1,040,954	763,220	—
1982	956,666	717,469	—
1983	917,960	720,648	132,999
1984	853,700	721,802	—
1985	795,457	699,428	—
1986	684,497	661,622	100,550
1987	597,480	685,550	97,817
1988	580,757	703,905	93,796
1989	676,863	777,230	107,094
1990	614,866	778,977	96,945
1991	624,154	812,473	90,922
1992	694,689	832,655	102,989
1993	642,966	788,235	99,186
1994	676,351	819,860	108,230
1995	708,135	877,662	101,763
1996	659,743	855,787	94,606
1999	629,206	837,260	75,086
2002	595,506	869,113	60,738
2005	566,773	890,188	57,976
2008	505,590	731,094	47,660
2011	410,979	696,404	36,529
2014	406,735	631,149	35,986

Notes:

- The gray-shadowed figures for FY 1987 and FY 1988, data for FY 1990, FY 1991, FY 1993 and FY 1994 are taken from the result of a sample survey.
- No surveys were conducted in FY 1997, FY 1998, FY 2000, FY 2001, FY 2003, FY 2004, FY 2006, FY 2007, FY 2009, FY2010, FY2012, and FY2013.

Source: "Survey on the Enforcement of the Air Pollution Control Law," Ministry of the Environment

6.06 Sulfur oxide emissions (breakdown by type of facility)(Unit : km² N / Year)

	Apparatus exhausting soot and smoke							Total
	Boiler 01	Diesel engine 30	Waste incinerator 13	Metal-heating furnace 06	Drying furnace 11	Metal-melting furnace 05	Others	
FY 1992	171,472	11,590	13,917	3,026	4,129	2,639	36,368	243,141
1993	150,188	10,305	14,574	2,913	3,693	2,450	40,915	225,038
1994	157,992	12,225	15,433	3,041	3,354	2,293	42,385	236,723
1995	165,252	13,146	18,987	3,059	3,585	2,048	41,770	247,847
1996	160,402	13,008	12,513	2,844	4,519	1,894	35,730	230,910
1999	145,848	12,509	13,397	2,050	5,341	1,511	39,567	220,223
2002	136,744	15,076	8,162	1,970	3,035	3,208	40,232	208,427
2005	130,696	14,159	10,963	2,095	3,358	2,306	34,793	198,370
2008	120,700	12,864	5,509	1,413	2,888	2,356	31,226	176,956
2011	100,786	7,906	4,163	1,594	1,984	664	26,746	143,843
2014	99,033	5,476	4,457	912	1,676	571	30,232	142,357

Notes:

- The gray-shadowed figures for FY 1994 were results of a sample survey.
- No surveys were conducted in FY1997, FY1998, FY 2000, FY 2001, FY 2003, FY 2004, FY2006, FY2007, FY2009, FY2010, FY2012, and FY2013.

Source: "Survey on the Enforcement of the Air Pollution Control Law," Ministry of the Environment

6.07 Nitrogen oxide emissions (breakdown by type of facility)(Unit : km² N / Year)

	Apparatus exhausting soot and smoke							Total
	Boiler 01	Diesel engine 30	Waste incinerator 13	Metal-heating furnace 06	Drying furnace 11	Metal-melting furnace 05	Others	
FY 1992	178,664	46,517	27,388	6,616	4,738	1,446	140,097	405,466
1993	162,873	42,550	27,306	6,227	3,923	1,266	139,691	383,836
1994	170,399	50,249	28,358	6,629	3,605	1,101	138,895	399,236
1995	171,148	56,881	33,630	6,418	4,359	1,289	153,658	427,383
1996	176,218	55,494	30,488	6,499	4,631	1,191	142,210	416,731
1999	171,696	59,823	33,321	6,312	5,805	1,573	129,179	407,709
2002	179,687	78,613	29,522	6,747	5,236	3,473	119,942	423,220
2005	177,218	80,612	29,842	6,556	5,168	3,342	130,745	433,483
2008	158,760	36,984	25,373	5,878	3,825	3,323	121,868	356,011
2011	158,112	32,379	22,552	6,491	3,567	1,960	114,057	339,118
2014	143,121	22,983	23,526	4,914	3,578	1,689	107,531	307,342

Note:

- The gray-shadowed figures for FY 1994 were results of a sample survey.
- No surveys were conducted in for FY1997, FY1998, FY 2000, FY 2001, FY 2003, FY 2004, FY2006, FY2007, FY2009, FY2010, FY2012, and FY2013.

Source: "Survey on the Enforcement of the Air Pollution Control Law," Ministry of the Environment

6.08 Soot and dust emissions (breakdown by type of facility)

(Unit: t / Year)

	Apparatus exhausting soot and smoke							Total
	Boiler 01	Diesel engine 30	Waste incinerator 13	Metal-heating furnace 06	Drying furnace 11	Metal-melting furnace 05	Others	
FY 1992	45,202	11,578	18,281	1,201	6,233	1,568	18,925	102,988
1993	42,229	11,078	17,612	1,180	5,545	1,752	19,790	99,186
1994	49,040	13,340	17,640	1,582	5,279	1,833	19,606	108,320
1995	42,314	11,934	19,597	1,153	4,399	912	21,454	101,763
1996	39,692	9,607	17,398	882	4,795	935	21,297	94,606
1999	30,101	2,747	16,119	838	4,174	987	20,120	75,086
2002	28,313	5,121	6,141	833	4,471	1,352	14,507	60,738
2005	26,368	3,079	4,842	844	5,144	1,558	16,141	57,976
2008	21,235	1,718	3,391	731	3,913	1,232	15,440	47,660
2011	16,181	1,365	2,621	911	2,694	993	11,764	36,529
2014	17,321	1,255	2,775	395	3,223	962	10,055	35,986

Notes:

- The gray-shadowed figures for FY 1994 were results of a sample survey.
- No surveys were conducted in for FY1997, FY1998, FY 2000, FY 2001, FY 2003, FY 2004, FY2006, FY2007, FY2009, FY2010, FY2012, and FY2013.

Source: "Survey on the Enforcement of the Air Pollution Control Law" Ministry of the Environment

6.09 Changes in car ownership (1)

(Unit: Vehicle)

End of fiscal year	(A) # of cars owned (C)+(D)+(E)	(B) # of inspected vehicles (C)+(D)	(C) # of registered vehicle			Breakdown of registered vehicles		
						Trucks		
			Business use total [ratio]	Private use total [ratio]	Total	Business use total	Private use total	Total
1985	48,240,555	36,178,795	1,149,933 [3%]	34,178,247 [97%]	35,328,180	703,594 (216)	7,602,424 (3,667)	8,306,018
1990	60,498,850	43,730,305	1,409,087 [3%]	41,321,364 [97%]	42,730,451	907,931 (136)	7,926,610 (1,929)	8,834,541
1993	66,278,836	48,130,439	1,499,131 [3%]	45,503,491 [97%]	47,002,622	974,513 (118)	7,904,406 (1,465)	8,878,919
1994	68,103,696	49,485,297	1,544,750 [3%]	46,763,318 [97%]	48,308,068	1,011,410 (114)	7,867,542 (1,393)	8,878,952
1995	70,106,536	50,936,863	1,589,809 [3%]	48,138,041 [97%]	49,727,850	1,047,272 (112)	7,810,558 (1,336)	8,857,830
1996	71,775,647	52,191,692	1,632,037 [3%]	49,334,880 [97%]	50,966,917	1,078,098 (112)	7,740,808 (1,275)	8,818,906
1997	72,856,583	52,980,674	1,660,534 [3%]	50,076,863 [97%]	51,737,397	1,094,365 (112)	7,598,844 (1,232)	8,693,209
1998	73,688,389	53,390,661	1,660,872 [3%]	50,460,557 [97%]	52,121,429	1,087,740 (111)	7,388,555 (1,182)	8,476,295
1999	74,582,612	53,552,803	1,672,921 [3%]	50,591,483 [97%]	52,264,404	1,091,259 (111)	7,174,875 (1,142)	8,266,134
2000	75,524,973	53,769,633	1,698,361 [3%]	50,762,855 [97%]	52,461,216	1,105,336 (99)	7,000,950 (1,117)	8,106,286
2001	76,270,813	53,757,576	1,706,272 [3%]	50,716,950 [97%]	52,423,222	1,101,591 (99)	6,805,282 (1,074)	7,906,873
2002	76,892,517	53,626,388	1,711,672 [3%]	50,682,517 [97%]	52,274,189	1,095,317 (98)	6,570,625 (1,050)	7,885,842
2003	77,390,245	53,314,815	1,725,027 [3%]	50,219,457 [97%]	51,944,484	1,097,103 (98)	6,317,232 (1,012)	7,414,335
2004	78,278,880	53,328,755	1,756,559 [3%]	50,174,804 [97%]	51,931,363	1,114,859 (98)	6,165,316 (992)	7,280,175
2005	78,992,060	53,185,519	1,778,369 [3%]	49,979,001 [97%]	51,757,370	1,125,963 (98)	6,033,733 (985)	7,159,696
2006	79,236,095	52,527,928	1,790,317 [4%]	49,284,718 [96%]	51,075,035	1,131,923 (98)	5,882,335 (976)	7,014,258
2007	79,080,762	51,640,443	1,795,399 [4%]	48,366,320 [96%]	50,161,719	1,134,930 (99)	5,748,760 (972)	6,883,690
2008	78,800,542	50,629,754	1,768,074 [4%]	47,356,376 [96%]	49,124,450	1,110,918 (100)	5,456,584 (962)	6,567,502
2009	78,693,495	50,045,805	1,734,643 [4%]	46,786,986 [96%]	48,521,629	1,082,614 (100)	5,279,820 (960)	6,362,434
2010	78,660,773	49,610,327	1,715,809 [4%]	46,359,337 [96%]	48,075,146	1,075,968 (100)	5,138,879 (949)	6,214,847
2011	79,112,584	49,543,611	1,711,587 [4%]	46,289,168 [96%]	48,000,755	1,074,412 (101)	5,061,501 (938)	6,135,913
2012	79,625,203	49,371,229	1,711,199 [4%]	46,093,689 [96%]	47,804,888	1,073,190 (101)	4,994,948 (935)	6,068,138
2013	80,272,571	49,197,590	1,721,239 [4%]	45,881,016 [96%]	47,602,255	1,080,442 (47)	4,960,643 (757)	6,041,085
2014	80,670,393	48,884,185	1,729,151 [4%]	45,543,945 [96%]	47,273,096	1,086,370 (47)	4,942,786 (749)	6,029,156
2015	80,900,730	48,773,121	1,745,243 [4%]	45,399,417 [96%]	47,144,660	1,097,032 (97)	4,921,799 (922)	6,018,831
Relative change from last year (%)	100.3	99.8	100.9	99.7	99.7	101.0	99.6	99.8

Note: Parenthesized numbers refer to the number of three - wheelers and are included in each total.

6.09 Changes in car ownership (2)

(Unit: Vehicle)

End of fiscal year	Breakdown of registered vehicles								
	Trucks								
	Standard-sized car			Compact car			Trailers		
	Business use	Private use	Total	Business use	Private use	Total	Business use	Private use	Total
1985	550,059	1,123,089	1,673,148	93,823 (216)	6,473,179 (3,667)	6,567,002	59,712	6,156	65,868
1990	731,920	1,474,161	2,206,081	93,737 (136)	6,445,958 (1,929)	6,539,695	82,274	6,491	88,765
1993	792,052	1,640,224	2,432,276	89,354 (118)	6,257,273 (1,465)	6,346,627	93,107	6,909	100,016
1994	821,914	1,697,138	2,519,052	87,354 (114)	6,161,944 (1,393)	6,249,298	102,142	8,460	110,602
1995	849,427	1,734,729	2,584,156	85,973 (112)	6,066,652 (1,336)	6,152,625	111,872	9,177	121,049
1996	877,390	1,764,876	2,642,266	84,760 (112)	5,966,628 (1,275)	6,051,388	115,948	9,304	125,252
1997	891,734	1,763,933	2,655,667	83,617 (112)	5,825,481 (1,232)	5,909,098	119,014	9,430	128,444
1998	886,331	1,739,844	2,626,175	81,479 (111)	5,639,082 (1,182)	5,720,561	119,930	9,629	129,559
1999	889,604	1,704,931	2,594,535	79,883 (111)	5,460,470 (1,142)	5,540,353	121,772	9,474	131,246
2000	901,104	1,680,488	2,581,592	79,496 (99)	5,311,156 (1,117)	5,390,652	124,736	9,306	134,042
2001	897,530	1,656,668	2,554,198	78,183 (99)	5,139,380 (1,074)	5,217,563	125,878	9,234	135,112
2002	891,407	1,621,103	2,512,510	78,680 (98)	4,940,538 (1,050)	5,017,216	127,230	8,986	136,216
2003	892,082	1,579,219	2,471,301	75,553 (98)	4,729,227 (1,012)	4,804,780	129,468	8,786	138,254
2004	904,389	1,567,205	2,471,594	76,016 (98)	4,589,205 (992)	4,665,221	134,454	8,906	143,360
2005	909,871	1,558,569	2,468,440	76,877 (98)	4,465,748 (985)	4,542,625	139,215	9,416	148,631
2006	912,142	1,551,465	2,463,607	77,085 (98)	4,321,351 (976)	4,398,436	142,696	9,519	152,215
2007	911,457	1,533,807	2,445,264	77,896 (99)	4,205,417 (972)	4,283,313	146,181	9,536	155,717
2008	887,345	1,472,858	2,360,203	77,626 (100)	3,974,423 (962)	4,052,049	145,947	9,303	155,250
2009	863,399	1,440,170	2,303,569	76,432 (100)	3,830,428 (960)	3,906,860	142,783	9,222	152,005
2010	856,599	1,415,352	2,271,951	75,646 (100)	3,714,240 (949)	3,789,886	143,723	9,287	153,010
2011	854,516	1,408,991	2,263,507	74,811 (101)	3,642,980 (938)	3,717,791	145,085	9,530	154,615
2012	852,748	1,409,844	2,262,592	74,381 (101)	3,575,280 (935)	3,649,661	146,061	9,824	155,885
2013	859,534	1,418,602	2,278,136	73,376 (47)	3,531,802 (757)	3,605,178	147,532	10,239	157,771
2014	864,000	1,435,643	2,299,643	72,846 (47)	3,496,353 (749)	3,569,199	149,524	10,790	160,314
2015	872,863	1,444,268	2,317,131	72,581 (97)	3,466,101 (922)	3,538,682	151,588	11,430	163,018
Relative change from last year (%)	101.0	100.6	100.8	99.1	99.1	99.1	101.4	105.9	101.7

Note: Parenthesized numbers refer to the number of three - wheelers and are included in each total.

6.09 Changes in car ownership (3)

(Unit: Vehicle)

The end of fiscal year.	Breakdown of registered vehicles								
	Buses								
	Business use total	Private use total	Total	Standard-size car			Compact car		
				Business use	Private use	Total	Business use	Private use	Total
1985	90,100	140,683	230,783	84,660	24,420	109,080	5,440	116,263	121,703
1990	94,830	151,014	245,844	86,966	28,137	115,103	7,864	122,877	130,741
1993	96,200	150,919	247,119	87,064	29,425	116,489	9,136	121,494	130,630
1994	95,762	148,849	244,611	86,269	29,304	115,573	9,493	119,545	129,038
1995	95,218	147,689	242,907	85,236	29,160	114,396	9,982	118,529	128,511
1996	94,975	146,869	241,844	84,387	29,042	113,429	10,588	117,827	128,415
1997	95,681	144,185	239,866	83,873	28,667	112,540	11,808	115,518	127,326
1998	95,934	141,212	237,146	82,970	28,214	111,184	12,964	112,998	125,962
1999	96,350	139,375	235,725	82,341	27,929	110,270	14,009	111,446	125,455
2000	98,548	137,002	235,550	82,827	27,458	110,285	15,721	109,544	125,265
2001	100,534	133,710	234,244	83,469	26,757	110,226	17,065	106,953	124,018
2002	101,801	131,379	233,180	83,998	28,210	110,208	17,803	105,189	122,972
2003	103,093	128,891	231,984	84,485	25,634	110,119	18,608	103,257	121,865
2004	104,898	127,102	232,000	85,167	25,105	110,272	19,731	101,997	121,728
2005	105,770	125,926	231,696	85,120	24,722	109,842	20,650	101,204	121,854
2006	106,974	124,784	231,758	85,522	24,402	109,924	21,452	100,382	121,834
2007	107,771	123,210	230,981	85,774	24,006	109,780	21,997	99,204	121,201
2008	108,103	121,701	229,804	85,771	23,668	109,439	22,332	98,033	120,365
2009	107,876	120,419	228,295	85,242	23,285	108,527	22,634	97,134	119,768
2010	108,228	118,611	226,839	85,146	22,704	107,850	23,082	95,907	118,989
2011	108,544	117,726	226,270	85,232	22,466	107,698	23,312	95,260	118,572
2012	109,036	117,011	226,047	85,368	22,168	107,536	23,668	94,843	118,511
2013	110,208	116,334	226,542	86,334	21,890	108,224	23,874	94,444	118,318
2014	111,344	116,235	227,579	87,265	21,727	108,992	24,079	94,508	118,587
2015	113,742	116,861	230,603	89,135	21,704	110,839	24,607	95,157	119,764
Relative change from last year (%)	102.2	100.5	101.3	102.1	99.9	101.7	102.2	100.7	101.0

Source: Compiled from 'Statistical Report on Motor Vehicle Transport,' Ministry of Land, Infrastructure, Transport and Tourism

6.09 Changes in car ownership (4)

(Unit: Vehicle)

End of fiscal year	Breakdown of registered vehicles										
	Passenger car										
	Business use total	Private use total	Total	Standard car			Compact car				
				Business use	Private use	Total	Business use	Private use	Total		
1985	252,641	(-)	25,594,937 (21)	25,847,578	2,322	712,394	714,716	250,319	(-)	24,882,543 (21)	25,132,862
1990	259,589	(-)	32,176,908 (43)	32,436,497	7,364	1,926,169	1,933,533	252,225	(-)	30,250,739 (43)	30,502,964
1993	258,786	(-)	36,250,056 (88)	36,508,842	15,278	5,237,128	5,252,406	243,508	(-)	31,012,928 (88)	31,256,436
1994	256,875	(-)	37,497,646 (152)	37,754,521	17,332	6,697,684	6,715,016	239,543	(-)	30,799,962 (152)	31,039,505
1995	255,984	(-)	38,846,724 (234)	39,102,708	20,008	8,283,402	8,303,410	235,976	(-)	30,563,322 (234)	30,799,298
1996	256,403	(-)	40,220,165 (373)	40,476,568	23,029	9,949,956	9,972,985	233,374	(-)	30,270,209 (373)	30,503,583
1997	258,475	(-)	41,024,518 (492)	41,282,993	22,978	11,279,648	11,305,626	232,497	(-)	29,744,870 (492)	29,977,367
1998	257,780	(-)	41,525,096 (607)	41,782,876	27,494	12,299,442	12,326,936	230,286	(-)	29,225,654 (607)	29,455,940
1999	257,088	(-)	41,798,617 (710)	42,055,705	29,440	13,204,291	13,233,731	227,648	(-)	28,594,326 (710)	28,821,974
2000	256,343	(-)	42,108,726 (701)	42,365,069	31,046	14,132,311	14,163,357	225,297	(-)	27,976,415 (701)	28,201,712
2001	259,033	(-)	42,268,699 (688)	42,527,732	32,691	14,905,895	14,938,586	226,342	(-)	27,362,804 (688)	27,589,146
2002	263,282	(-)	42,391,647 (660)	42,664,929	34,804	15,398,886	15,433,690	228,478	(-)	28,992,761 (660)	27,221,239
2003	267,141	(-)	42,357,065 (639)	42,624,206	36,423	15,916,537	15,953,960	230,718	(-)	26,440,528 (639)	26,671,246
2004	270,703	(-)	42,505,475 (625)	42,776,178	38,413	16,357,803	16,396,216	232,290	(-)	26,147,672 (625)	26,379,962
2005	273,181	(-)	42,474,099 (599)	42,747,280	40,182	16,596,514	16,636,696	232,999	(-)	25,877,585 (599)	26,110,584
2006	273,740	(-)	41,955,669 (570)	42,229,409	42,061	16,671,316	16,713,377	231,679	(-)	25,284,353 (570)	25,516,032
2007	273,529	(-)	41,195,460 (542)	41,468,989	43,585	16,714,242	16,757,827	229,944	(-)	24,481,218 (542)	24,711,162
2008	271,327	(-)	40,527,918 (535)	40,799,245	45,050	16,613,720	16,658,770	226,277	(-)	23,914,198 (535)	24,140,475
2009	265,431	(-)	40,153,489 (535)	40,418,920	46,399	16,652,554	16,698,953	219,032	(-)	23,500,935 (535)	23,719,967
2010	249,934	(-)	39,885,198 (540)	40,135,132	47,850	16,790,700	16,838,550	202,084	(-)	23,094,498 (540)	23,296,582
2011	244,643	(-)	39,898,798 (537)	40,143,441	49,179	17,048,886	17,098,065	195,464	(-)	22,849,912 (537)	23,045,376
2012	241,431	(-)	39,767,919 (541)	40,009,350	50,989	17,246,034	17,297,023	190,442	(-)	22,521,885 (541)	22,712,327
2013	238,891	(-)	39,582,152 (540)	39,821,043	52,961	17,533,167	17,586,128	185,930	(-)	22,048,985 (540)	22,234,915
2014	236,525	(-)	39,254,592 (530)	39,491,117	54,931	17,662,272	17,717,203	181,594	(-)	21,592,320 (530)	21,773,914
2015	234,310	(-)	39,120,335 (530)	39,354,645	56,799	17,944,156	18,000,955	177,511	(-)	21,176,179 (530)	21,353,690
Relative change from last year (%)	99.1		99.7	99.7	103.4	101.6	101.6	97.8		98.1	98.1

Note: Parenthesized numbers refer to the number of three - wheelers and are included in each total.

6.09 Changes in car ownership (5)

(Unit: Vehicle)

End of fiscal year	Breakdown of registered vehicles									
	Specific use vehicles									
				Standard-sizes car			Compact car			
	Business use total	Private use total	Total	Business use	Private use	Total	Business use	Private use	Total	
1985	103,598 (-)	840,203 (681)	943,801	95,723	373,113	468,836	4,544 (-)	129,227 (681)	133,771	
1990	146,737 (-)	1,066,832 (579)	1,213,569	136,266	494,476	630,742	7,038 (-)	152,982 (579)	160,020	
1993	169,632 (-)	1,198,110 (560)	1,367,742	157,465	579,068	736,533	8,609 (-)	158,482 (560)	167,091	
1994	180,703 (-)	1,249,281 (562)	1,429,984	168,003	615,206	783,209	9,090 (-)	160,083 (562)	169,173	
1995	191,335 (-)	1,333,070 (565)	1,524,405	177,770	680,712	858,482	9,847 (-)	164,583 (565)	174,430	
1996	202,561 (-)	1,227,038 (534)	1,429,599	188,293	748,349	936,642	10,473 (-)	172,512 (534)	182,985	
1997	212,013 (-)	1,309,316 (511)	1,521,329	197,235	815,033	1,012,268	10,976 (-)	183,119 (511)	194,095	
1998	219,418 (-)	1,405,694 (546)	1,625,112	204,305	893,508	1,097,813	11,411 (-)	197,261 (546)	208,672	
1999	228,224 (-)	1,478,616 (529)	1,706,840	212,742	956,470	1,169,212	11,832 (-)	204,992 (529)	216,824	
2000	238,134 (-)	1,516,177 (493)	1,754,311	222,151	992,452	1,214,603	12,412 (-)	204,147 (493)	216,559	
2001	245,114 (-)	1,509,259 (456)	1,754,373	229,060	991,997	1,221,057	12,557 (-)	196,226 (456)	208,783	
2002	251,272 (-)	1,468,888 (444)	1,720,138	236,244	963,932	1,199,176	12,617 (-)	184,198 (444)	196,816	
2003	257,690 (-)	1,416,269 (415)	1,673,959	241,477	921,766	1,163,243	12,866 (-)	173,689 (415)	186,555	
2004	266,099 (-)	1,376,911 (392)	1,643,010	249,654	890,007	1,139,661	13,163 (-)	165,388 (392)	178,551	
2005	273,455 (-)	1,345,243 (382)	1,618,698	256,861	863,195	1,120,056	13,382 (-)	159,798 (382)	173,180	
2006	277,680 (-)	1,321,930 (369)	1,599,610	260,898	843,235	1,104,133	13,576 (-)	154,946 (369)	168,522	
2007	279,169 (-)	1,298,890 (357)	1,578,059	262,415	824,181	1,086,596	13,559 (-)	151,310 (357)	164,869	
2008	277,726 (-)	1,250,173 (285)	1,527,899	261,046	786,024	1,047,070	13,509 (-)	141,663 (285)	155,172	
2009	278,722 (-)	1,233,258 (273)	1,511,980	262,065	772,381	1,034,446	13,528 (-)	140,301 (273)	153,829	
2010	281,679 (-)	1,216,649 (261)	1,498,328	264,923	760,067	1,024,990	13,661 (-)	137,025 (261)	150,686	
2011	283,988 (-)	1,211,143 (11,307)	1,495,131	267,221	755,467	1,022,688	13,743 (-)	135,140 (11,307)	148,883	
2012	287,542 (-)	1,213,811 (11,924)	1,501,353	270,636	756,436	1,027,072	13,944 (-)	133,881 (11,924)	147,825	
2013	291,698 (-)	1,221,887 (12,669)	1,513,585	274,887	760,308	1,035,195	13,897 (-)	133,050 (12,669)	146,947	
2014	294,912 (-)	1,230,332 (13,564)	1,525,244	278,058	765,272	1,043,330	13,975 (-)	132,417 (13,564)	146,392	
2015	300,159 (-)	1,240,422 (14,601)	1,540,581	283,224	771,104	1,054,328	14,055 (-)	133,034 (14,601)	147,089	
Relative change from last year (%)	101.8	100.8	101.0	101.9	100.8	101.1	100.6	100.5	100.5	

Note: Parenthesized numbers refer to the number of three - wheelers and are included in each total.

Source: Compiled from "Statistical Report on Motor Vehicle Transport," Ministry of Land, Infrastructure, Transport and Tourism

6.09 Changes in car ownership (6)

(Unit: Vehicle)

End of fiscal year	Breakdown of registered vehicles			(D) Small two-wheeler	(E) Light motor vehicle				
	Specific use vehicles				Total	Four- wheeler	Four-wheel truck	Three- wheeler	Two - wheeler
	Large-sized special motor vehicle								
	Business use	Private use	Total						
1985	3,331	337,863	341,194	850,615	12,061,760	1,942,616	8,944,444	1,233	1,173,467
1990	3,433	419,374	422,807	999,854	16,768,545	2,715,334	12,310,428	1,235	1,741,548
1993	3,558	460,560	464,118	1,127,817	18,148,397	4,551,769	11,772,117	1,295	1,823,216
1994	3,610	473,992	477,602	1,177,229	18,618,399	5,201,818	11,591,832	1,303	1,823,446
1995	3,718	487,775	491,493	1,209,013	19,169,673	5,965,822	11,375,868	1,353	1,826,630
1996	3,795	306,177	309,972	1,224,775	19,583,955	6,738,258	11,037,077	1,363	1,807,257
1997	3,802	311,164	314,966	1,243,277	19,875,909	7,401,213	10,707,664	1,362	1,765,670
1998	3,702	314,925	318,627	1,269,232	20,297,728	8,185,273	10,383,719	1,336	1,727,400
1999	3,650	317,154	320,804	1,288,399	21,029,809	9,166,424	10,157,522	1,341	1,704,522
2000	3,571	319,578	323,149	1,308,417	21,755,340	10,084,285	9,957,111	1,347	1,712,597
2001	3,497	321,036	324,533	1,334,354	22,513,237	10,959,561	9,817,964	1,317	1,734,395
2002	3,411	320,736	324,147	1,362,199	23,288,129	11,816,447	9,675,844	1,293	1,772,545
2003	3,347	320,814	324,161	1,370,331	24,075,430	12,663,918	9,599,623	1,295	1,810,594
2004	3,282	321,516	324,798	1,397,392	24,950,125	13,512,078	9,579,425	1,183	1,857,439
2005	3,212	322,250	325,462	1,428,149	25,806,541	14,350,390	9,546,557	1,192	1,908,402
2006	3,206	323,749	326,955	1,452,893	26,708,149	15,280,951	9,475,481	1,205	1,950,512
2007	3,195	323,399	326,594	1,478,724	27,439,715	16,082,259	9,379,408	1,219	1,976,829
2008	3,171	322,486	325,657	1,505,304	28,170,788	16,883,230	9,290,018	1,229	1,996,311
2009	3,129	320,576	323,705	1,524,176	28,647,690	17,483,915	9,169,591	1,245	1,992,939
2010	3,095	319,557	322,652	1,535,181	29,050,446	18,004,339	8,921,550	1,244	1,975,623
2011	3,024	320,536	323,560	1,542,856	29,568,973	18,585,902	8,871,671	1,237	1,959,845
2012	2,962	323,494	326,456	1,566,341	30,253,974	19,347,873	8,782,302	1,226	1,969,187
2013	2,914	328,529	331,443	1,595,335	31,074,981	20,230,295	8,706,948	1,233	1,980,411
2014	2,879	332,643	335,522	1,611,089	31,786,208	21,026,132	8,622,311	1,234	1,978,462
2015	2,880	336,284	339,164	1,628,461	32,127,609	21,477,247	8,519,233	1,225	1,970,471
Relative change from last year (%)	100.0	101.1	101.1	101.1	101.1	102.1	98.8	99.3	99.6

Note:

Starting FY2010, total number of Light motor vehicle does not include the number of Specific use vehicles; consequently, breakdown totals is not consist with totals.

6.09 Changes in car ownership (7)

Transition of numbers of motorized bicycles and small-sized special motor vehicles;

(Unit: Vehicle)

As of April 1st each year	Motorized bicycle					Small-sized special motor vehicles		
	Class 1	Class 2	Total	Ratio of change from last year (%)	Index	Total	Relative change from last year (%)	Index
1989	14,033,811	1,574,741	15,608,552	97	142	2,414,449	99	101
1990	13,539,269	1,517,228	15,056,497	96	137	2,406,252	100	100
1991	13,048,137	1,505,665	14,553,802	97	133	2,398,937	100	100
1992	12,520,835	1,480,476	14,001,311	96	128	2,380,556	99	99
1993	11,998,940	1,461,782	13,460,722	96	123	2,367,290	99	99
1994	11,521,894	1,435,990	12,957,884	96	118	2,342,641	99	98
1995	11,165,390	1,421,031	12,586,421	97	115	2,313,477	99	96
1996	10,835,934	1,390,327	12,226,261	97	111	2,292,441	99	96
1997	10,487,574	1,366,558	11,854,132	97	108	2,470,423	108	103
1998	10,181,449	1,346,116	11,527,565	97	105	2,454,691	99	102
1999	9,919,874	1,341,347	11,261,221	98	103	2,426,401	99	101
2000	9,636,487	1,337,395	10,973,882	97	100	2,399,487	99	100
2001	9,354,554	1,344,330	10,698,884	97	97	2,355,443	98	98
2002	9,136,832	1,334,792	10,471,624	98	95	2,330,893	99	97
2003	8,915,037	1,329,410	10,244,447	98	95	2,309,590	99	96
2004	8,739,686	1,341,088	10,080,774	98	92	2,284,223	99	95
2005	8,566,613	1,353,732	9,920,345	98	90	2,255,513	99	94
2006	8,372,001	1,378,714	9,750,715	98	89	2,240,149	99	93
2007	8,178,879	1,397,085	9,575,964	98	87	2,219,142	99	92
2008	7,963,604	1,429,738	9,393,342	98	86	2,197,386	99	92
2009	7,770,458	1,479,588	9,250,046	98	84	2,171,929	99	91
2010	7,530,672	1,511,440	9,042,112	96	82	2,153,890	99	90
2011	7,238,628	1,540,667	8,779,295	97	80	2,127,238	99	89
2012	6,985,633	1,582,925	8,568,558	98	78	2,114,115	99	88
2013	6,750,431	1,626,094	8,376,525	98	76	2,106,128	99	87
2014	6,528,790	1,674,884	8,203,674	98	74	2,102,642	99	87
2015	6,280,897	1,704,083	7,984,980	97	73	2,094,720	99	87

Notes:

- Class 1 Motorized bicycles refer to ones with engine size of 50 cc and below;
Class type 2 refer to the ones greater than Class type 1, with engine size of 125 cc and below.
- Figures in the table are for vehicles for which taxes are being paid to municipalities.
- A value in FY2000 is set as 100 for the index.

Source: "Investigation on municipal taxation," Ministry of Internal Affairs and Communications

6.10 Total automobile transportation volume and car ownership by prefecture

	Total automobile transportation volume (FY 2014)						Number of automobiles (at the end of FY 2014)			
	Freight tonnage carried (Thousand tons)			Passenger transportation (thousand people)			Trucks	Buses	Passenger cars	Total
	Business use	Personal use	Total	Buses	Passenger cars	Total				
Nationwide	2,912,693	1,381,477	4,294,170	4,500,163	1,557,269	6,057,432	6,029,156	227,579	39,491,117	47,273,096
Hokkaido	254,540	51,942	306,482	200,043	107,910	307,953	392,131	13,788	1,917,714	2,456,556
Aomori	37,617	28,157	65,774	30,388	16,147	46,535	83,089	3,820	412,017	527,740
Iwate	40,024	29,736	69,760	27,384	13,537	40,921	84,438	3,705	428,155	539,617
Miyagi	76,583	44,514	121,097	77,407	28,436	105,843	142,177	5,075	828,643	1,007,089
Akita	24,384	17,414	41,798	14,124	8,375	22,499	52,791	2,431	352,905	428,747
Yamagata	27,392	20,456	47,848	11,800	7,882	19,682	64,069	2,580	411,246	498,738
Fukushima	62,197	42,063	104,260	26,181	14,847	41,028	131,451	5,470	769,087	937,931
Ibaraki	70,272	55,746	126,018	49,561	18,558	68,119	217,310	6,949	1,320,782	1,589,071
Tochigi	39,692	35,210	74,902	24,545	12,413	36,958	128,994	4,601	895,217	1,056,447
Gunma	41,671	35,904	77,575	14,487	10,649	25,136	130,342	3,967	883,057	1,045,504
Saitama	136,105	71,477	207,582	227,228	38,575	265,803	304,257	9,937	2,226,650	2,612,110
Chiba	98,108	69,230	167,338	247,228	44,888	292,116	283,342	11,001	1,981,288	2,345,704
Tokyo	114,268	67,977	182,245	821,421	329,842	1,151,263	390,252	15,484	2,664,688	3,160,166
Kanagawa	125,578	56,113	181,691	671,914	112,176	784,090	280,968	11,530	2,407,616	2,772,338
Niigata	59,165	35,444	94,609	49,440	17,656	67,096	138,125	6,257	789,391	975,219
Toyama	32,934	16,564	49,498	11,983	5,944	17,927	65,244	2,078	432,647	518,297
Ishikawa	32,076	14,907	46,983	33,974	11,729	45,703	63,222	2,729	448,046	530,603
Fukui	20,405	12,520	32,925	10,973	5,815	16,788	44,647	1,885	304,290	364,626
Yamanashi	12,494	13,380	25,874	9,997	6,287	16,284	46,347	2,125	333,015	395,564
Nagano	42,332	34,571	76,903	27,566	16,069	43,635	119,367	5,576	814,260	971,006
Gifu	48,139	38,751	86,890	31,986	12,154	44,140	129,976	4,594	811,443	975,411
Shizuoka	101,891	55,634	157,525	87,713	27,790	115,503	218,899	6,503	1,351,839	1,619,422
Aichi	194,261	85,582	279,843	194,138	62,794	256,932	412,868	10,143	2,876,076	3,377,217
Mie	53,815	26,929	80,744	44,280	7,543	51,823	99,198	3,401	695,954	822,865
Shiga	26,752	15,097	41,849	24,845	9,533	34,378	60,629	2,675	460,917	539,730
Kyoto	45,444	18,795	64,239	180,264	62,712	242,976	89,694	4,724	655,668	774,077
Osaka	168,212	51,090	219,302	285,961	116,898	402,859	318,067	9,682	1,978,685	2,374,949
Hyogo	163,219	45,672	208,891	254,354	55,852	310,206	192,507	7,816	1,552,301	1,805,916
Nara	22,128	11,293	33,421	53,087	8,439	61,526	47,961	2,173	403,108	465,275
Wakayama	19,775	10,144	29,919	15,099	11,320	26,419	45,009	1,694	277,621	337,549
Tottori	15,871	5,791	21,662	6,543	4,208	10,751	24,621	1,261	181,316	215,619
Shimane	18,023	7,264	25,287	9,588	7,298	16,886	30,525	1,742	212,658	255,414
Okayama	75,797	19,894	95,691	31,147	20,266	51,413	98,105	3,047	639,603	767,670
Hiroshima	91,703	23,528	115,231	107,276	40,439	147,715	120,692	5,211	850,674	1,011,009
Yamaguchi	41,011	13,166	54,177	28,542	14,865	43,407	65,059	2,571	461,373	546,392
Tokushima	20,189	8,930	29,119	8,881	5,815	14,696	40,830	1,599	254,450	307,347
Kagawa	36,581	10,507	47,088	8,559	8,282	16,841	51,882	1,685	321,740	388,835
Ehime	43,047	13,588	56,635	14,789	12,144	26,933	67,442	2,265	386,920	475,068
Kochi	18,754	7,701	26,455	6,226	6,852	13,078	32,475	1,358	199,634	244,444
Fukuoka	146,062	43,657	189,719	276,644	95,368	372,012	246,669	10,128	1,566,618	1,877,892
Saga	27,938	10,403	38,341	12,596	7,636	20,232	47,316	2,059	257,174	318,081
Nagasaki	22,798	12,441	35,239	81,715	20,975	102,690	48,245	4,248	338,677	407,826
Kumamoto	41,074	22,052	63,126	37,544	23,814	61,358	97,748	3,808	554,656	679,839
Oita	27,511	13,962	41,473	21,542	15,196	36,738	58,964	2,500	378,858	455,295
Miyazaki	29,977	16,127	46,104	11,845	14,003	25,848	63,382	2,146	349,241	431,976
Kagoshima	45,390	22,123	67,513	42,902	25,837	68,739	92,345	4,209	488,441	614,924
Okinawa	19,494	18,031	37,525	34,453	31,501	65,954	65,485	3,349	364,758	449,981

Notes:

• Freight tonnage carried is an estimation obtained from prorating the transportation volumes in each District Transportation Bureau presented in "Annual Report on Automobile Transportation" by the ratio of the registered number of automobiles with each Local Land Transport Office as of the end of each FY. However, the tonnage by Specific use vehicles are included, but that by light vehicles are excluded.

• Passenger transportation is tabulated in the same way.

• The differences between the total number of automobiles and the sum of the numbers of trucks, buses, and passenger cars are due to the number of specific use vehicles.

Source: "Transportation censuses," Ministry of Land, Infrastructure, Transport and Tourism

6.11 Trends in freight transportation (1)

(Index : FY2005 (Mean) =100)

	Freight tonnage carried (Thousand tons)										Total
	Motor freight	Index	Railway freight	Index	J R	Index	Coastal shipping	Index	Airfreight	Index	
FY 1950	309,000	-	131,748	222.3	120,193	308.0	49,282	9.5	-	-	490,030
1955	569,000	-	185,354	312.7	152,182	390.0	69,254	13.3	2	0.2	823,610
1960	1,156,291	-	229,856	438.0	186,953	507.1	138,849	32.6	9	0.8	1,525,005
1965	2,193,195	-	243,524	464.1	191,060	518.3	179,645	42.2	33	3.0	2,616,397
1970	4,626,069	-	250,360	477.1	193,106	523.8	376,647	88.4	116	10.7	5,253,192
1975	4,392,859	-	180,616	344.2	137,879	374.0	452,054	106.1	192	17.7	5,025,721
1980	5,317,950	-	162,827	310.3	117,896	319.8	500,258	117.4	329	30.4	5,981,364
1981	5,230,784	-	147,890	249.5	106,778	273.6	479,097	92.1	369	36.4	5,858,140
1982	5,171,623	-	132,356	223.3	93,885	240.6	437,584	84.1	401	39.5	5,741,964
1983	5,123,371	-	117,815	224.5	82,375	223.5	438,038	102.8	443	40.9	5,679,667
1984	5,114,657	-	103,801	197.8	71,503	194.0	450,278	105.7	497	45.9	5,669,233
1985	5,048,048	-	96,285	183.5	65,497	177.7	452,385	106.2	538	49.7	5,597,256
1986	4,969,101	-	87,242	166.3	59,072	160.2	440,677	103.4	602	55.6	5,497,622
1987	5,204,257	104.8	82,189	156.6	55,294	150.0	462,546	108.5	698	64.5	5,749,690
1988	5,578,451	112.3	82,338	156.9	55,695	151.1	493,000	115.7	761	70.3	6,154,550
1989	5,888,248	118.6	82,827	157.8	55,782	151.3	538,029	126.3	827	76.4	6,509,931
1990	6,113,565	123.1	86,619	165.1	58,400	158.4	575,199	135.0	874	80.8	6,776,257
1991	6,260,811	126.1	85,697	163.3	57,390	155.7	571,891	134.2	874	80.8	6,919,273
1992	6,101,706	122.9	82,402	157.0	55,633	150.9	540,410	126.8	854	78.9	6,725,372
1993	5,821,537	117.2	79,259	151.0	53,178	144.3	528,841	124.1	859	79.4	6,430,496
1994	5,810,374	-	78,948	150.5	52,753	143.1	555,764	130.4	910	84.1	6,445,996
1995	6,016,571	121.2	76,932	146.6	51,456	139.6	548,542	128.7	960	88.7	6,643,005
1996	6,177,265	124.4	73,558	140.2	49,185	133.4	546,909	128.3	1,002	92.6	6,798,734
1997	6,065,384	122.1	69,228	131.9	47,286	128.3	541,437	127.1	1,014	93.7	6,677,063
1998	5,819,881	117.2	60,369	115.0	40,604	110.1	516,647	121.2	1,015	93.8	6,397,912
1999	5,863,259	118.1	58,685	111.8	39,154	106.2	522,602	122.6	1,061	98.1	6,445,607
2000	5,773,619	116.3	59,274	113.0	39,620	107.5	537,021	126.0	1,103	101.9	6,371,017
2001	5,578,227	112.3	58,668	111.8	39,026	105.9	520,067	122.0	1,015	93.8	6,157,977
2002	5,339,487	107.5	56,592	107.8	38,197	103.6	497,251	116.7	1,001	92.5	5,894,331
2003	5,234,076	105.4	53,602	102.2	37,552	101.9	445,544	104.6	1,033	95.5	5,734,255
2004	5,075,877	102.2	52,219	99.5	36,789	99.8	440,252	103.3	1,065	98.4	5,569,413
2005	4,965,874	100.0	52,473	100.0	36,864	100.0	426,145	100.0	1,082	100.0	5,445,574
	(4,842,232)	(97.8)									(5,358,796)
2006	4,961,325	99.9	51,872	98.9	36,371	98.7	416,644	97.8	1,099	101.6	5,430,940
	(4,837,022)	(97.5)									(5,343,008)
2007	4,932,539	99.3	50,850	96.9	35,958	97.5	409,694	96.1	1,145	105.8	5,394,228
	(4,811,884)	(97.6)									(5,309,531)
2008	4,718,318	95.0	46,225	88.1	32,850	89.1	378,705	88.9	1,074	99.3	5,144,322
	(4,600,752)	(97.5)									(5,059,606)
2009	4,454,028	91.5	43,251	82.4	30,849	83.7	332,175	75.6	1,027	94.9	4,830,481
	(4,339,538)	(97.4)									(4,746,840)
2010	4,480,195	-	43,647	83.2	30,790	83.5	366,734	86.1	1,004	92.8	4,891,580
2011	4,496,954	-	39,886	76.0	-	-	360,983	84.7	960	88.7	4,898,783
2012	4,365,927	87.9	42,340	80.7	-	-	365,992	85.8	977	90.2	4,775,236
2013	4,345,753	87.5	44,101	84.0	-	-	378,334	88.8	1,016	93.9	4,769,204
2014	4,315,836	86.9	43,424	82.8	-	-	369,302	86.7	1,024	94.6	4,729,586

Note:

• In FY 1987, "Motor Freight" started to incorporate the tonnage carried by light motor vehicles. Consequently, the contents of data prior to FY 1986 and those after FY 1987 are not continuous.

• "Motor freight" in FY 1994 does not include the figure in Hyogo prefecture between January and March in 1995.

• Column for Index of cars in FY 1994 was left out since it does not include data from Hyogo prefecture.

• Starting in FY 2010, methodology of survey as well as data processing was changed in Monthly Statistical Report on Motor Vehicle Transport. Consequently, data prior to FY 2009 and those after FY 2010 are not continuous. Mini trucks for private use are excluded from the survey. For your reference, parenthesized numbers indicate data without those of minitrucks.

• "Motor freight" in FY 2010 as well as in FY 2011 does not include March and April data from Hokkaido District Transport Bureau and Tohoku District due to the Great East Japan Earthquake. Automobile index for FY 2010 and FY 2011 have been left out because data from Hokkaido District Transport Bureau and Tohoku District Transport Bureau are not available.

Only charged freight is included in Railway freight. In Monthly Statistical Report on Railway, JR data became unavailable in FY 2011, thus the data is no longer shown.

• Monthly transport volume for "Coastal shipping" and mean volume in FY 2003 do not include personal use.

• Transport volume for airfreight (regular service) includes overweight baggage and postal matters.

• Index is based on FY 2005.

6.11 Trends in freight transportation (2)

(Index: FY 2005 (Mean) = 100)

	(Index: FY 2005 (Mean) =100)										
	Freight ton-kilometers (Million tons)										
	Motor freight		Railway freight			Coastal shipping		Airfreight		Total	
	Index		Index	J R	Index		Index		Index		
FY 1950	5,400	-	31,246	141.2	30,715	140.5	25,500	10.6	—	—	62,146
1955	9,500	-	42,695	192.9	42,005	192.2	29,022	12.0	1	0.1	81,218
1960	20,801	-	53,916	236.3	52,993	234.5	63,579	30.1	6	0.6	138,302
1965	48,392	-	56,678	248.4	55,788	246.8	80,635	38.1	21	2.0	185,726
1970	135,916	-	63,031	276.3	62,043	274.5	151,243	71.5	74	6.9	350,264
1975	129,701	-	47,058	206.3	46,288	204.8	183,579	86.8	152	14.1	360,490
1980	178,901	-	37,428	164.1	36,688	162.3	222,173	105.0	290	27.0	438,792
1981	181,309	-	33,806	152.7	33,116	151.5	211,763	87.6	327	30.4	427,205
1982	187,719	-	30,596	138.2	29,961	137.1	198,052	82.0	360	33.5	416,727
1983	193,527	-	27,373	120.0	26,812	118.6	200,748	94.9	400	37.2	422,048
1984	200,813	-	22,998	100.8	22,485	99.5	210,107	99.3	446	41.5	434,364
1985	205,941	-	21,919	96.1	21,410	94.7	205,818	97.3	482	44.8	434,160
1986	216,115	-	20,446	89.6	19,974	88.4	197,953	93.6	545	50.7	435,059
1987	226,425	67.6	20,474	89.7	20,026	88.6	201,386	95.2	634	59.0	448,919
1988	246,088	73.5	23,478	102.9	23,031	101.9	212,628	100.5	683	63.5	482,877
1989	262,857	78.5	25,136	110.2	24,675	109.2	220,063	104.0	753	70.0	508,809
1990	274,244	81.9	27,196	119.2	26,728	118.3	244,546	115.6	799	74.3	546,785
1991	283,776	84.7	27,157	119.0	26,698	118.1	248,203	117.3	812	75.5	559,948
1992	281,599	84.1	26,668	116.9	26,241	116.1	248,002	117.2	804	74.8	557,073
1993	275,885	82.4	25,433	111.5	25,027	110.7	233,526	110.4	817	76.0	535,661
1994	280,587	-	24,493	107.4	24,077	106.5	238,540	112.7	871	81.0	544,491
1995	294,648	88.0	25,101	110.0	24,702	109.3	238,330	112.6	924	86.0	559,002
1996	305,510	91.2	24,968	109.4	24,061	108.8	241,756	114.3	962	89.5	573,196
1997	306,263	91.4	24,618	107.9	24,301	107.5	237,018	112.0	981	91.3	568,880
1998	300,670	89.8	22,920	100.5	22,643	100.2	226,980	107.3	985	91.6	551,555
1999	307,149	91.7	22,541	98.8	22,272	98.5	229,432	108.4	1,039	96.7	560,161
2000	313,118	93.5	22,136	97.0	21,855	96.7	241,671	114.2	1,075	100.0	578,000
2001	313,072	93.5	22,193	97.3	21,907	96.9	244,451	115.5	994	92.5	580,710
2002	312,028	93.1	22,131	97.0	21,860	96.7	235,582	111.3	991	92.2	570,732
2003	321,862	96.1	22,794	99.9	22,565	99.8	218,190	103.1	1,027	95.5	563,873
2004	327,632	97.8	22,476	98.5	22,264	98.5	218,833	103.4	1,058	98.4	569,999
2005	334,979	100.0	22,813	100.0	22,601	100.0	211,576	100.0	1,075	100.0	570,443
2006	(333,524)	(102.2)	22,813	100.0	22,601	100.0	211,576	100.0	1,075	100.0	(568,988)
2006	346,534	103.4	23,192	101.7	22,985	101.7	207,849	98.2	1,094	101.8	578,669
2006	(345,035)	(99.6)	23,192	101.7	22,985	101.7	207,849	98.2	1,094	101.8	(577,170)
2007	354,800	105.9	23,334	102.3	23,140	102.4	202,962	95.9	1,145	106.5	582,241
2007	(353,320)	(99.6)	23,334	102.3	23,140	102.4	202,962	95.9	1,145	106.5	(580,761)
2008	346,420	103.4	22,256	97.6	22,081	97.7	187,859	88.8	1,078	100.3	557,613
2008	(344,939)	(99.6)	22,256	97.6	22,081	97.7	187,859	88.8	1,078	100.3	(556,132)
2009	334,667	99.9	20,562	90.5	20,404	90.3	167,315	79.1	1,043	97.0	523,587
2009	(333,181)	(99.6)	20,562	90.5	20,404	90.3	167,315	79.1	1,043	97.0	(522,100)
2010	243,150	-	20,398	89.4	20,228	89.5	179,898	85.0	1,032	96.0	444,478
2011	231,061	-	19,998	87.7	-	-	174,900	82.7	992	92.3	426,951
2012	209,956	62.6	20,471	89.7	-	-	177,791	84.0	1,017	94.6	409,235
2013	214,092	63.9	21,071	92.4	-	-	184,860	87.4	1,049	97.6	421,072
2014	210,008	62.7	21,029	92.2	-	-	183,120	86.6	1,050	97.7	415,207

Source: Compiled from "Statistical Report on Motor Vehicle Transport," Ministry of Land, Infrastructure, Transport and Tourism

6.12 Changes in volume of passenger transportation (1)

(Index: FY 2005(mean)=100)

Year	Number of Passengers carried (unit: thousand)										Total
	Automobile	Index	Railway	Index	J R	Index	Passenger ship	Index	Air	Index	
FY 1950	1,515,000	...	8,391,932	38.8	3,095,194	35.7	97,348	88.4	—	—	10,044,280
1955	4,261,000	...	9,780,980	45.2	3,849,219	44.4	73,920	67.1	361	0.4	14,116,261
1960	7,900,743	...	12,290,380	56.0	5,123,901	59.0	98,887	95.8	1,260	1.3	20,291,270
1965	14,863,470	...	15,798,168	71.9	6,721,827	77.4	126,007	122.1	5,194	5.5	30,792,839
1970	24,032,433	...	16,384,034	74.6	6,534,477	75.3	173,744	168.4	15,460	16.4	40,605,671
1975	28,411,450	...	17,587,925	80.1	7,048,013	81.2	169,864	164.6	25,467	27.0	46,194,706
1980	33,515,233	...	18,004,962	82.0	6,824,817	78.6	159,751	154.8	40,427	42.8	51,720,373
1981	33,345,267	...	18,218,155	84.2	6,793,030	78.3	160,443	145.7	42,101	45.3	51,765,966
1982	33,510,893	...	18,269,106	84.4	6,742,418	77.8	156,218	141.9	40,486	43.6	51,976,703
1983	33,808,770	...	18,537,677	84.4	6,796,759	78.3	153,340	148.6	40,838	43.2	52,540,625
1984	34,029,706	...	18,753,086	85.4	6,883,837	79.3	154,793	150.0	44,718	47.3	52,982,303
1985	34,678,904	...	18,989,703	86.9	6,941,358	81.0	153,477	148.8	43,777	46.3	53,865,861
1986	34,942,850	...	19,414,040	88.8	7,103,955	82.9	154,127	149.4	46,367	49.1	54,557,384
1987	49,164,738	74.6	19,971,994	90.9	7,356,358	84.7	165,000	159.9	50,046	53.0	69,351,778
1988	52,217,608	79.2	20,742,139	94.4	7,761,346	89.4	157,400	152.6	52,945	56.0	73,170,092
1989	55,828,655	84.7	21,210,767	96.6	7,979,882	91.9	160,200	155.3	60,120	63.6	77,259,742
1990	55,767,427	84.6	21,938,609	99.9	8,357,583	96.3	162,600	157.6	65,252	69.1	77,933,888
1991	57,555,953	87.3	22,559,810	102.7	8,675,929	99.9	162,000	157.0	68,687	72.7	80,346,450
1992	58,841,075	89.2	22,694,082	103.3	8,817,783	101.6	157,855	153.0	69,687	73.8	81,762,699
1993	59,284,686	89.9	22,759,159	103.6	8,906,301	102.6	157,250	152.4	69,584	73.6	82,270,679
1994	59,934,869	...	22,597,951	...	8,883,699	...	150,866	146.2	74,547	78.9	82,758,233
1995	61,271,653	92.9	22,630,439	103.0	8,982,284	103.4	148,828	144.2	78,101	82.7	84,129,021
1996	61,542,541	93.3	22,593,304	102.9	8,997,037	103.6	148,107	143.5	82,131	86.9	84,366,083
1997	62,199,844	94.3	22,244,430	101.3	8,858,611	102.0	144,897	140.4	85,555	90.5	84,674,726
1998	61,838,994	93.8	22,013,765	100.2	8,764,494	100.9	127,665	123.7	87,910	93.0	84,068,334
1999	62,046,830	94.1	21,750,275	99.0	8,717,512	100.4	120,091	116.4	91,588	96.9	84,008,784
2000	62,841,306	95.3	21,646,751	98.6	8,670,971	99.9	110,128	106.7	92,873	98.3	84,691,058
2001	64,590,143	97.9	21,720,088	98.9	8,650,246	99.6	111,869	107.5	94,579	100.1	86,516,679
2002	65,480,675	99.3	21,561,067	98.2	8,685,455	98.9	108,846	105.5	96,662	102.3	87,247,250
2003	65,933,252	100.0	21,757,564	99.1	8,641,879	99.5	107,288	104.0	95,487	101.1	87,893,591
2004	65,990,529	100.1	21,686,454	98.7	8,618,243	99.3	100,872	97.8	93,739	99.2	87,871,594
2005	65,946,689	100.0	21,953,959	100.0	8,683,080	100.0	103,175	100.0	94,490	100.0	88,098,313
2006	(6,762,778)	98.4	...	...	...	...	...	...	...	...	28,923,467
2006	65,943,252	100.0	22,243,472	101.3	8,778,178	101.1	99,168	96.1	96,971	102.6	88,382,863
2006	(6,746,618)	(99.8)	...	...	...	...	...	...	...	...	29,186,228
2007	66,908,896	101.5	...	...	...	...	...	...	...	...	89,945,342
2007	(6,697,498)	(99.3)	22,840,797	104.0	8,988,040	103.5	100,800	97.7	94,849	100.4	29,733,953
2008	66,774,143	101.3	...	...	...	...	...	...	...	...	89,939,937
2008	(6,631,993)	(99.0)	22,976,100	104.6	8,984,425	103.5	99,032	92.0	90,662	95.9	29,797,787
2009	66,599,647	101.0	...	...	...	...	...	...	...	...	89,500,134
2009	(6,424,629)	(96.9)	22,724,442	103.5	8,840,672	101.8	92,173	89.3	83,872	88.8	29,325,116
2010	6,241,395	...	22,669,009	103.2	8,818,311	101.6	85,047	82.4	82,211	87.0	29,077,662
2011	6,073,486	...	22,632,357	103.0	8,837,406	101.8	84,065	81.4	79,052	83.7	28,868,960
2012	6,076,806	...	23,041,856	104.9	8,962,809	103.2	87,134	84.4	85,996	91.0	29,291,792
2013	6,125,916	...	23,606,410	107.5	9,146,991	105.3	88,018	85.3	92,643	98.0	29,912,987
2014	6,057,426	...	23,599,851	107.5	9,088,121	104.7	85,859	83.2	95,197	100.7	29,838,333

Notes:

- In FY 1987, "Automobile" started to include light motor vehicles, thus the data are not continuous from the data in FY 1986 or before.
- Data for automobile in FY 1994 do not include data from Hyogo prefecture between Jan. and Mar. in FY 1995 (excluding commercial busses). Also, data for automobile between Jan. and Feb. in 1995 does not include data from Hyogo prefecture (excluding commercial busses).
- Index of automobile in FY 1994 is left out because the data did not include data from Hyogo prefecture
- Starting in FY 2010, methodology of survey as well as data processing was changed in Monthly Statistical Report on Motor Vehicle Transport. Consequently, data prior to FY 2010 and that in 2010 and onward are not continuous. In the "Automobiles", passenger cars for private use and light motor vehicles are excluded from the survey, and only data for cars for business uses are disclosed. For your reference, parenthesized numbers indicate data for business-use automobiles.
- Data for Automobile in FY 2010 as well as in FY 2011 does not include March and April data in 2011 from Hokkaido District Transport Bureau and Tohoku District (except buses for business use) due to the occurrence of the Great East Japan Earthquake. Automobile index for FY 2010 and FY 2011 have been left out because data from Hokkaido District Transport Bureau and Tohoku District Transport Bureau is not available.
- As for railway data in FY1987 and onward, some numbers of passengers carried are duplicated in one or more JR operating companies. Consequently, data prior to and after FY 1987 are not continuous.
- As for transportation volume by passenger ships, data includes only regular service up to FY 1972, and both regular and irregular services are included in FY 1973 and onward. p to FY 1969, transportation volume passenger kilometer was estimated by multiplying number of transportation volume by 27 kilometers (an average transport kilometers per person).
- Domestic Air includes only regular flights.
- Index is based on FY 2005.

6.12 Changes in volume of passenger transportation (2)

(Index :FY 2005(mean)=100)

Year	Passenger -kilometers carried (unit: million passenger-kilometers)										Total
	Automobile	Index	Railway	Index	J R	Index	Passenger ship	Index	Air	Index	
FY 1950	9,000	...	105,468	27.4	69,004	28.7	2,628	61.1	—	—	117,096
1955	27,500	...	136,112	35.4	91,239	37.9	1,996	46.4	225	0.3	165,833
1960	55,531	...	184,340	47.1	126,983	51.6	2,670	66.3	737	0.9	243,278
1965	120,756	...	255,484	65.3	174,014	70.7	3,402	84.5	2,952	3.5	382,594
1970	284,229	...	288,815	73.8	189,726	77.1	4,814	119.6	9,319	11.2	587,177
1975	360,868	...	323,800	82.8	215,289	87.5	6,895	171.3	19,148	23.0	710,711
1980	431,669	...	314,542	80.4	193,143	78.5	6,132	152.3	29,688	35.7	782,031
1981	437,078	...	316,205	82.3	192,115	79.8	6,044	140.4	31,032	38.9	790,359
1982	452,055	...	316,347	82.3	190,767	79.3	5,859	136.1	30,106	37.8	804,367
1983	464,165	...	321,452	82.2	192,906	78.4	5,722	142.2	30,627	36.8	821,966
1984	468,695	...	324,135	82.9	194,180	78.9	5,780	143.6	33,499	40.3	832,109
1985	489,260	...	330,101	84.4	197,463	80.3	5,752	142.9	33,119	39.8	858,232
1986	499,844	...	334,741	85.5	198,299	80.6	5,684	141.2	35,324	42.4	875,593
1987	718,478	77.0	344,729	88.1	204,677	83.2	6,242	155.1	38,535	46.3	1,107,984
1988	782,033	83.8	361,796	92.5	217,589	88.5	5,711	141.9	41,102	49.4	1,190,642
1989	845,123	90.6	368,818	94.3	222,671	90.5	5,962	148.1	47,141	56.6	1,267,044
1990	853,060	91.4	387,478	99.0	237,657	96.6	6,275	155.9	51,623	62.0	1,298,436
1991	869,337	93.2	400,083	102.3	247,031	100.4	6,195	153.9	55,349	66.5	1,330,964
1992	888,279	95.2	402,258	102.8	249,606	101.5	6,097	151.5	56,680	68.1	1,353,314
1993	889,873	95.4	402,727	102.9	250,016	101.6	6,061	150.6	57,118	68.6	1,355,779
1994	896,751	...	396,332	101.3	244,378	99.3	5,946	147.7	61,289	73.6	1,360,318
1995	917,419	98.3	400,056	102.3	248,998	101.2	5,637	140.0	65,012	78.1	1,388,124
1996	931,721	99.9	402,156	102.8	251,724	102.3	5,634	140.0	69,049	83.0	1,408,560
1997	944,972	101.3	395,239	101.0	247,652	100.7	5,351	132.9	73,243	88.0	1,418,805
1998	954,807	102.3	388,938	99.4	242,810	98.7	4,620	114.8	75,988	91.3	1,424,353
1999	955,563	102.4	385,101	98.4	240,795	97.9	4,479	111.3	79,348	95.3	1,424,491
2000	951,253	102.0	384,441	98.3	240,659	97.8	4,304	106.9	79,698	95.8	1,419,696
2001	954,292	102.3	385,421	98.5	241,133	98.0	4,006	99.5	81,459	97.9	1,425,178
2002	955,413	102.4	382,236	97.7	239,243	97.3	3,893	96.7	83,949	100.9	1,425,491
2003	954,186	102.3	384,958	98.4	241,160	98.0	4,024	100.0	83,311	100.1	1,426,479
2004	947,563	101.6	385,163	98.4	241,977	98.4	3,869	96.1	81,786	98.3	1,418,381
2005	933,006	100.0	391,228	100.0	245,996	100.0	4,025	100.0	83,220	100.0	1,411,479
	(84,266)	(101.3)									(562,739)
2006	917,938	98.4	395,908	101.2	249,029	101.2	3,783	94.0	85,746	103.0	1,403,375
	(84,075)	(99.8)									(569,512)
2007	936,049	98.5	405,544	103.7	255,210	103.7	3,834	95.3	84,327	101.3	1,429,754
	(83,082)	(98.8)									(576,787)
2008	905,907	97.1	404,585	103.4	253,556	103.1	3,510	87.0	80,931	97.2	1,394,933
	(83,831)	(100.9)									(572,857)
2009	898,721	96.3	393,765	100.7	244,247	99.3	3,073	76.3	75,203	90.4	1,370,762
	(81,360)	(97.1)									(553,401)
2010	77,677	...	393,466	100.6	244,593	99.4	3,004	74.6	73,750	88.6	547,897
2011	73,916	...	395,067	101.0	246,937	100.4	3,047	75.7	71,165	85.5	543,195
2012	75,668	...	404,396	103.3	253,788	103.1	3,092	76.8	77,917	93.6	561,073
2013	74,571	...	414,387	105.9	260,013	105.7	3,265	81.1	84,144	101.1	576,367
2014	72,579	...	413,970	105.8	260,097	105.7	2,923	72.6	86,763	104.3	576,235

Source: Compiled from "Summary of Transportation Statistics," Ministry of Land, Infrastructure, Transport and Tourism

6.13 Changes in transport share by mode (1)

1. Freight

	Tonnage				Ton-kilometer			
	Automobile	Railway	Coastal shipping	Domestic airline	Automobile	Railway	Coastal shipping	Domestic airline
FY 1955	69.1	22.5	8.4	0.0	11.7	52.6	35.7	0.0
1960	75.8	15.1	9.1	0.0	15.0	39.0	46.0	0.0
1965	83.8	9.3	6.9	0.0	26.1	30.5	43.4	0.0
1970	88.1	4.8	7.2	0.0	38.8	18.0	43.2	0.0
1975	87.4	3.6	9.0	0.0	36.0	13.1	50.9	0.0
1980	89.0	2.7	8.4	0.0	40.8	8.5	50.6	0.1
1985	90.2	1.7	8.1	0.0	47.5	4.9	47.5	0.1
1986	90.4	1.6	8.0	0.0	49.7	4.6	45.5	0.1
1987	90.5	1.4	8.0	0.0	50.4	4.6	44.9	0.1
1988	90.6	1.3	8.0	0.0	51.0	4.9	44.0	0.1
1989	90.5	1.3	8.3	0.0	51.7	4.9	43.3	0.1
1990	90.2	1.3	8.5	0.0	50.2	5.0	44.7	0.1
1991	90.5	1.2	8.3	0.0	50.7	4.9	44.3	0.1
1992	90.7	1.2	8.0	0.0	50.5	4.8	44.5	0.1
1993	90.5	1.2	8.2	0.0	51.5	4.7	43.6	0.2
1994	90.1	1.2	8.6	0.0	51.5	4.5	43.8	0.2
1995	90.6	1.2	8.3	0.0	52.7	4.5	42.6	0.2
1996	90.9	1.1	8.0	0.0	53.3	4.4	42.1	0.2
1997	90.8	1.0	8.1	0.0	53.8	4.3	41.7	0.2
1998	91.0	0.9	8.1	0.0	54.5	4.2	41.2	0.2
1999	91.0	0.9	8.1	0.0	54.8	4.0	41.0	0.2
2000	90.6	0.9	8.4	0.0	54.2	3.8	41.8	0.2
2001	90.6	1.0	8.4	0.0	53.9	3.8	42.1	0.2
2002	90.6	1.0	8.4	0.0	54.7	3.9	41.3	0.2
2003	91.3	0.9	7.8	0.0	57.1	4.0	38.7	0.2
2004	91.1	0.9	7.9	0.0	57.5	3.9	38.4	0.2
2005	91.2	1.0	7.8	0.0	58.7	4.0	37.1	0.2
2006	(91.0) (1.0) (8.0) (0.0) (58.6) (4.0) (37.2) (0.2)	91.4	1.0	7.7	59.9	4.0	35.9	0.2
2007	(91.2) (1.0) (7.9) (0.0) (59.8) (4.0) (36.0) (0.2)	91.4	0.9	7.6	60.9	4.0	34.9	0.2
2008	(91.2) (1.0) (7.8) (0.0) (60.8) (1.0) (34.9) (0.2)	91.7	0.9	7.4	62.1	4.0	33.7	0.2
2009	(91.5) (0.9) (7.5) (0.0) (62.0) (4.0) (33.8) (0.2)	92.2	0.9	7.0	63.9	3.9	32.0	0.2
2010	(92.0) (0.9) (7.0) (0.0) (63.8) (3.9) (32.0) (0.2)	91.8	0.9	7.3	54.9	4.6	40.3	0.2
2011	91.8	0.8	7.4	0.0	54.1	4.7	41.0	0.2
2012	91.4	0.9	7.7	0.0	51.3	5.0	43.4	0.2
2013	91.1	0.9	7.9	0.0	50.8	5.0	43.9	0.2
2014	91.3	0.9	7.8	0.0	50.6	5.1	44.1	0.3

6.13 Changes in transport share by mode (2)

2. Passengers

	Passengers transported				Persons-kilometers			
	Automobile	Railway	Coastal shipping	Domestic airline	Automobile	Railway	Coastal shipping	Domestic airline
FY 1955	30.2	69.3	0.5	0.0	16.6	82.1	1.2	0.1
1960	38.9	60.6	0.5	0.0	22.8	75.8	1.1	0.3
1965	48.3	51.3	0.4	0.0	31.6	66.8	0.9	0.8
1970	59.2	40.3	0.4	0.0	48.4	49.2	0.8	1.6
1975	61.5	38.1	0.4	0.1	50.8	45.6	1.0	2.7
1980	64.8	34.8	0.3	0.1	55.2	40.2	0.8	3.8
1985	64.4	35.3	0.3	0.1	57.0	38.5	0.7	3.9
1986	64.0	35.6	0.3	0.1	57.1	38.2	0.6	4.0
1987	70.9	28.8	0.2	0.1	64.8	31.1	0.6	3.5
1988	71.4	28.3	0.2	0.1	65.7	30.4	0.5	3.5
1989	72.3	27.5	0.2	0.1	66.7	29.1	0.5	3.7
1990	71.6	28.1	0.2	0.1	65.7	29.8	0.5	4.0
1991	71.6	28.0	0.2	0.1	65.3	30.1	0.5	4.1
1992	72.0	27.8	0.2	0.1	65.6	29.7	0.5	4.2
1993	72.1	27.7	0.2	0.1	65.6	29.7	0.4	4.2
1994	72.4	27.3	0.2	0.1	65.9	29.1	0.4	4.5
1995	72.8	26.9	0.2	0.1	66.1	28.8	0.4	4.7
1996	72.9	26.8	0.2	0.1	66.1	28.6	0.4	4.9
1997	73.5	26.2	0.2	0.1	66.6	27.8	0.4	5.2
1998	73.6	26.2	0.2	0.1	67.0	27.3	0.3	5.3
1999	73.9	25.9	0.1	0.1	67.1	27.0	0.3	5.6
2000	74.2	25.6	0.1	0.1	67.0	27.1	0.3	5.6
2001	74.7	25.1	0.1	0.1	67.0	27.0	0.3	5.7
2002	75.1	24.7	0.1	0.1	67.0	26.8	0.3	5.9
2003	75.0	24.8	0.1	0.1	66.9	27.0	0.3	5.8
2004	75.1	24.7	0.1	0.1	66.8	27.2	0.3	5.8
2005	74.6	24.9	0.1	0.1	66.1	27.7	0.3	5.9
2006	(23.4)	(75.9)	(0.4)	(0.3)	(15.0)	(69.5)	(0.7)	(14.8)
2007	(23.1)	(76.2)	(0.3)	(0.3)	(14.8)	(69.5)	(0.7)	(15.1)
2008	(22.5)	(76.8)	(0.3)	(0.3)	(14.4)	(70.3)	(0.7)	(14.6)
2009	(21.9)	(77.5)	(0.3)	(0.3)	(14.7)	(71.2)	(0.6)	(13.6)
2010	21.5	78.0	0.3	0.3	14.2	71.8	0.5	13.5
2011	21.0	78.4	0.3	0.3	13.6	72.7	0.6	13.1
2012	20.7	78.7	0.3	0.3	13.5	72.1	0.6	13.9
2013	20.6	78.8	0.3	0.3	12.9	71.9	0.6	14.6
2014	20.3	79.1	0.3	0.3	12.6	71.8	0.5	15.1

Notes:

• Share rate was calculated from table 6.12 previously presented.

• Starting in FY 1987, light motor vehicles and trucks for private were included in automobile, thus, the data prior to and after FY 1987 do not contain sequential data.

• Starting in FY 2010, the figures for "Automobile" are tabulated and disclosed excluding the surveyed data for trucks for t private use , thus, the data prior to and after FY 2010 do not contain sequential data. For your reference, parenthesized figures indicate the relevant values to the definition on the FY2010 basis.

• Due to rounding off fractions, total may not be consistent.

Source: Compiled from "Transportation censuses," Ministry of Land, Infrastructure, Transport and Tourism

6.14 Development and coverage rate of national highways by prefecture (1)

	National highways				Prefectural and municipal roads				National highways & prefectural and municipal roads			
	Total length	Maintenance rate	Improvement rate	Pavement rate	Total length	Maintenance rate	Improvement rate	Pavement rate	Total length	Maintenance rate	Improvement rate	Pavement rate
Hokkaido	6,735.2	92.3	100.0	99.7	11,822.0	89.8	92.7	41.9	18,557.2	90.7	95.3	62.9
Aomori	1,423.1	75.7	88.9	86.5	2,491.6	62.2	67.9	60.9	3,914.7	67.1	75.6	70.2
Iwate	1,767.7	79.6	97.3	93.1	2,922.4	70.3	75.1	51.1	4,690.1	73.8	83.4	66.9
Miyagi	1,202.3	59.1	94.3	96.8	2,297.6	70.3	80.2	85.6	3,499.9	66.4	85.0	89.5
Akita	1,351.4	83.4	95.9	95.8	2,370.0	71.3	74.7	61.7	3,721.4	75.7	82.4	74.1
Yamagata	1,117.6	67.2	93.5	90.8	2,520.5	75.6	81.5	65.8	3,638.0	73.0	85.2	73.4
Fukushima	2,001.0	64.1	87.5	81.5	4,110.8	53.7	63.8	54.4	6,111.9	57.1	71.5	63.3
Ibaraki	1,148.8	56.9	96.6	97.5	3,403.0	57.3	70.6	68.1	4,551.8	57.2	77.1	75.5
Tochigi	915.0	55.2	92.2	98.6	2,844.0	58.0	70.8	81.9	3,759.0	57.3	76.0	85.9
Gunma	929.5	63.9	88.6	93.4	2,521.2	58.4	74.2	79.0	3,450.7	59.9	78.0	82.9
Saitama	909.7	43.8	95.3	97.4	2,491.7	55.9	85.2	88.2	3,401.3	52.7	87.9	90.7
Chiba	1,255.2	54.4	94.9	99.1	2,601.1	53.3	73.5	88.3	3,856.2	53.7	80.5	91.8
Tokyo	346.4	55.0	98.6	100.0	2,338.0	43.6	85.1	95.7	2,684.4	45.1	86.8	96.3
Kanagawa	713.2	50.6	99.0	99.8	1,477.9	47.2	81.2	90.8	2,191.1	48.3	87.0	93.8
Niigata	2,008.1	61.5	88.5	86.6	4,652.9	59.1	66.3	60.8	6,661.0	59.8	73.0	68.6
Toyama	533.9	61.0	93.6	96.6	2,158.7	61.8	79.2	87.8	2,692.6	61.7	82.0	89.5
Ishikawa	616.6	76.6	96.0	96.9	1,901.2	64.8	72.7	76.5	2,517.8	67.7	78.4	81.5
Fukui	794.9	73.2	86.7	87.0	1,564.1	56.7	64.9	59.5	2,359.0	62.3	72.3	68.8
Yamanashi	619.3	59.7	91.4	93.6	1,420.3	48.7	60.5	62.1	2,039.6	52.0	69.9	71.7
Nagano	1,692.3	60.6	88.1	84.5	3,888.9	51.4	60.3	46.9	5,581.2	54.2	68.8	58.3
Gifu	1,603.2	64.8	86.0	91.5	3,080.1	43.1	61.1	75.3	4,683.3	50.6	69.6	80.9
Shizuoka	1,219.1	53.7	91.6	92.9	3,263.6	52.6	70.8	71.5	4,482.6	52.9	76.4	77.3
Aichi	1,336.2	57.7	96.1	96.0	4,232.3	53.9	76.3	81.5	5,568.5	54.8	81.0	85.0
Mie	1,209.3	63.7	89.8	87.7	2,649.7	49.5	62.1	56.8	3,859.0	54.0	70.8	66.5
Shiga	687.4	54.7	93.2	95.7	1,839.5	48.3	65.9	73.4	2,526.9	50.0	73.3	79.4
Kyoto	931.5	62.6	91.0	95.5	2,182.3	43.9	56.5	66.4	3,113.8	49.5	66.8	75.1
Osaka	660.3	42.5	93.8	100.0	1,784.1	55.3	83.3	99.2	2,444.4	51.9	86.1	99.4
Hyogo	1,494.9	66.6	95.1	96.5	4,400.2	53.4	68.8	75.7	5,895.1	56.7	75.5	80.9
Nara	842.6	52.1	72.4	84.0	1,293.6	31.6	45.4	53.9	2,136.2	39.7	56.0	65.7
Wakayama	1,040.5	65.6	76.8	80.4	1,884.3	40.5	45.6	59.6	2,924.8	49.4	56.7	67.0
Tottori	595.3	79.4	98.8	97.8	1,642.5	70.7	78.4	76.2	2,237.8	73.0	83.8	81.9
Shimane	958.1	70.1	92.7	94.1	2,501.6	51.0	58.3	60.9	3,459.8	56.3	67.8	70.1
Okayama	1,017.2	67.9	97.0	94.8	3,569.5	47.2	59.5	53.4	4,586.8	51.8	67.8	62.6
Hiroshima	1,520.8	65.7	93.4	95.1	3,692.7	56.5	67.3	73.4	5,213.5	59.2	74.9	79.7
Yamaguchi	1,112.0	75.8	93.3	93.8	2,791.3	45.0	53.2	50.9	3,903.3	53.7	64.6	63.1
Tokushima	708.1	56.0	73.2	79.0	1,782.9	30.4	44.3	49.3	2,491.0	37.7	52.5	57.8
Kagawa	369.7	70.5	98.3	99.0	1,563.1	65.5	75.5	77.0	1,932.7	66.4	79.9	81.2
Ehime	1,081.6	68.7	89.5	85.7	2,886.9	44.6	51.9	42.0	3,968.5	51.2	62.2	53.9
Kochi	1,067.8	73.5	84.7	85.1	2,091.6	32.7	39.9	40.1	3,159.4	46.5	55.0	55.3
Fukuoka	1,182.5	54.4	95.4	92.2	3,510.2	45.8	75.8	57.5	4,692.8	48.0	80.7	66.2
Saga	630.2	64.1	97.3	98.0	1,263.9	52.6	67.9	73.5	1,894.1	56.4	77.7	81.6
Nagasaki	986.7	61.5	91.1	91.8	1,666.0	53.7	61.5	58.4	2,652.7	56.6	72.5	70.8
Kumamoto	1,244.7	63.8	95.9	95.3	2,949.8	52.2	61.7	55.8	4,194.5	55.6	71.8	67.5
Oita	1,078.9	75.2	94.5	94.0	2,522.9	61.2	68.6	62.4	3,601.8	65.4	76.4	71.9
Miyazaki	1,171.1	63.6	82.7	79.3	2,011.4	51.4	60.3	59.8	3,182.5	55.9	68.6	67.0
Kagoshima	1,307.7	74.8	96.4	95.0	3,523.2	67.8	73.5	65.2	4,830.9	69.7	79.7	73.2
Okinawa	506.5	63.7	98.9	98.1	1,069.0	73.4	90.4	89.5	1,575.5	70.3	93.1	92.2
Nationwide	55,645.4	67.8	92.6	92.8	129,446.0	57.6	69.9	64.6	185,091.4	60.7	76.7	73.1

Notes:

- Maintenance rates are estimates based on Road Traffic census in FY 2015.
- The improvement rates were calculated by using the total length of improved roads.
- To calculate improvement rates of prefectural and municipal roads, and also the above, those of which roadway width is 5.5 meters or more are in consideration.
- Pavement rate does not include pavement done by the simplified method.
- Ordinance-designated cities are included.
- Due to influence of Great East Japan Earthquake, for Iwate, Miyagi and Fukushima prefectures, part of the data for Municipal roads include data before April 1st, 2015.

6.14 Development and coverage rate of national highways by prefecture (2)

	Municipal roads			Total			
	Total length	Maintenance rate	Pavement rate	Total length	Maintenance rate	Improvement rate	Pavement rate
Hokkaido	71,121.7	67.5	14.5	89,678.9	72.3	73.3	24.5
Aomori	15,972.8	59.1	24.0	19,887.5	60.7	62.4	33.1
Iwate	28,386.8	59.3	9.5	33,076.9	61.4	62.8	17.6
Miyagi	21,440.2	68.4	20.5	24,940.1	68.2	70.8	30.2
Akita	19,944.5	66.6	8.6	23,655.9	68.0	69.1	18.9
Yamagata	12,911.5	67.1	12.3	16,549.6	68.4	71.1	25.8
Fukushima	32,647.2	57.7	10.8	38,759.1	57.6	59.9	19.1
Ibaraki	51,137.7	38.6	8.2	55,689.6	40.1	41.7	13.7
Tochigi	21,419.8	68.5	12.6	25,178.8	66.9	69.6	23.6
Gunma	31,382.4	48.0	10.3	34,833.1	49.2	51.0	17.5
Saitama	43,546.2	51.9	11.4	46,947.5	51.9	54.5	17.2
Chiba	36,615.0	59.0	18.0	40,471.3	58.5	61.0	25.1
Tokyo	21,498.7	71.7	60.3	24,183.1	68.8	73.4	64.3
Kanagawa	23,379.4	66.5	53.4	25,570.4	64.9	68.2	56.8
Niigata	30,488.0	62.5	10.4	37,149.0	62.0	64.4	20.8
Toyama	11,139.0	77.0	29.1	13,831.6	74.0	78.0	40.9
Ishikawa	10,521.2	75.0	14.0	13,039.1	73.6	75.6	27.0
Fukui	8,385.4	72.3	25.8	10,744.4	70.1	72.3	35.2
Yamanashi	9,034.8	60.9	17.6	11,074.4	59.3	62.6	27.6
Nagano	42,101.7	48.9	7.9	47,682.9	49.5	51.2	13.8
Gifu	25,814.0	55.4	10.3	30,497.3	54.6	57.6	21.1
Shizuoka	32,131.7	58.2	20.0	36,614.3	57.6	60.5	27.0
Aichi	44,495.3	65.6	26.9	50,063.8	64.4	67.3	33.4
Mie	21,258.4	49.9	17.4	25,117.5	50.5	53.1	25.0
Shiga	9,847.6	60.0	28.6	12,374.5	58.0	62.7	39.0
Kyoto	12,382.5	55.0	32.8	15,496.3	53.9	57.4	41.3
Osaka	16,960.0	76.4	71.6	19,404.4	73.3	77.6	75.1
Hyogo	30,329.7	59.9	30.8	36,224.9	59.4	62.4	38.9
Nara	10,525.6	45.6	22.8	12,661.8	44.6	47.4	30.0
Wakayama	10,643.8	43.1	47.7	13,568.6	44.4	46.0	51.8
Tottori	6,568.0	65.5	17.5	8,805.8	67.4	70.1	33.9
Shimane	14,699.0	54.4	9.1	18,158.8	54.8	57.0	20.7
Okayama	27,365.0	45.1	11.4	31,951.7	46.0	48.3	18.7
Hiroshima	23,526.1	57.5	35.0	28,739.7	57.8	60.7	43.1
Yamaguchi	12,476.8	58.4	27.5	16,380.1	57.3	59.9	36.0
Tokushima	12,617.8	45.1	14.8	15,108.8	43.9	46.3	21.9
Kagawa	8,263.7	61.3	15.7	10,196.4	62.3	64.8	28.1
Ehime	14,191.2	50.7	12.9	18,159.7	50.8	53.2	21.8
Kochi	10,828.8	44.6	12.0	13,988.3	45.0	47.0	21.8
Fukuoka	32,747.5	64.6	10.4	37,440.3	62.5	66.6	17.4
Saga	8,998.8	70.0	14.1	10,892.9	67.6	71.3	25.9
Nagasaki	15,338.2	49.7	27.9	17,990.9	50.7	53.0	34.2
Kumamoto	21,669.8	56.0	17.6	25,864.3	56.0	58.6	25.7
Oita	14,631.3	61.0	26.8	18,233.1	61.8	64.0	35.7
Miyazaki	16,766.1	56.8	12.4	19,948.6	56.7	58.7	21.1
Kagoshima	22,329.5	69.2	11.1	27,160.4	69.3	71.0	22.1
Okinawa	6,499.6	64.1	39.9	8,075.1	65.3	69.7	50.1
Nationwide	1,026,979.9	58.6	19.3	1,212,071.3	58.9	61.3	27.5

Notes:

- Maintenance rates are estimates based on Road Traffic census in FY 2015.
- The improvement rates were calculated by using the total length of improved roads.
- To calculate improvement rates of prefectural and municipal roads, and also the above, those of which roadway width is 5.5 meters or more are in consideration.
- Pavement rate does not include pavement done by the simplified method.
- Ordinance-designated cities are included.
- Due to influence of Great East Japan Earthquake, for Iwate, Miyagi and Fukushima prefectures, part of the data for Municipal roads include data before April 1st, 2015.

6.14 Development and coverage rate of national highways by prefecture (3)

	Area	Population	Total length of national highways and Prefectural and municipal roads	Length of roads per 1km	Total length of roads per one thousand people	Road area	Road rate	Paved roads	Number of vehicles owned	Total length of paved roads per vehicle
	(A)	(B)	(C)	(C/A)	(C/B)	(D)	(D/A)	(E)	(F)	(E/F)
	(km ²)	(Thousand people)	(km)	(m)	(km)	(km ²)	(%)	(km)	(Thousand)	(m)
Hokkaido	83,424	5,382	18,557	222.4	3.45	709.62	0.85	11,672.1	3,555	3.3
Aomori	9,646	1,308	3,915	405.9	2.99	129.81	1.35	2,749.6	976	2.8
Iwate	15,275	1,280	4,690	307.0	3.66	200.76	1.31	3,138.7	991	3.2
Miyagi	*7,282	2,334	3,500	480.6	1.50	167.63	2.30	3,131.2	1,611	1.9
Akita	11,638	1,023	3,721	319.8	3.64	146.11	1.26	2,756.0	798	3.5
Yamagata	*9,323	1,124	3,638	390.2	3.24	120.51	1.29	2,671.7	908	2.9
Fukushima	13,784	1,914	6,112	443.4	3.19	229.69	1.67	3,868.1	1,583	2.4
Ibaraki	6,097	2,917	4,552	746.6	1.56	287.24	4.71	3,438.6	2,468	1.4
Tochigi	6,408	1,974	3,759	586.6	1.90	165.20	2.58	3,229.9	1,633	2.0
Gunma	6,362	1,973	3,451	542.4	1.75	184.69	2.90	2,859.7	1,711	1.7
Saitama	*3,798	7,267	3,401	895.6	0.47	259.81	6.84	3,084.3	3,842	0.8
Chiba	*5,158	6,223	3,856	747.7	0.62	243.48	4.72	3,539.7	3,429	1.0
Tokyo	*2,191	13,515	2,684	1225.2	0.20	176.76	8.07	2,584.4	3,930	0.7
Kanagawa	2,416	9,126	2,191	907.0	0.24	169.57	7.02	2,054.5	3,677	0.6
Niigata	*12,584	2,304	6,661	529.3	2.89	243.18	1.93	4,569.0	719	6.4
Toyama	*4,248	1,066	2,693	633.9	2.53	101.36	2.39	2,410.8	1,783	1.4
Ishikawa	4,186	1,154	2,518	601.5	2.18	96.04	2.29	2,051.9	874	2.3
Fukui	4,190	787	2,359	562.9	3.00	75.23	1.80	1,622.7	874	1.9
Yamanashi	*4,465	835	2,040	456.8	2.44	65.43	1.47	1,462.1	1,822	0.8
Nagano	*13,562	2,099	5,581	411.5	2.66	238.50	1.76	3,251.9	644	5.0
Gifu	*10,621	2,032	4,683	440.9	2.30	182.34	1.72	3,786.5	1,624	2.3
Shizuoka	*7,777	3,700	4,483	576.4	1.21	227.99	2.93	3,467.0	2,727	1.3
Aichi	*5,172	7,483	5,569	1076.6	0.74	336.27	6.50	4,731.1	4,919	1.0
Mie	*5,774	1,816	3,859	668.3	2.13	142.78	2.47	2,566.6	1,449	1.8
Shiga	*4,017	1,413	2,527	629.0	1.79	86.24	2.15	2,007.1	980	2.0
Kyoto	4,612	2,610	3,114	675.1	1.19	97.12	2.11	2,338.4	1,268	1.8
Osaka	1,905	8,839	2,444	1283.0	0.28	154.14	8.09	2,429.5	3,483	0.7
Hyogo	8,401	5,535	5,895	701.7	1.07	231.81	2.76	4,771.2	800	6.0
Nara	3,691	1,364	2,136	578.8	1.57	68.25	1.85	1,404.2	720	2.0
Wakayama	4,725	964	2,925	619.1	3.03	70.48	1.49	1,959.0	2,840	0.7
Tottori	3,507	573	2,238	638.1	3.91	58.59	1.67	1,833.0	453	4.0
Shimane	6,708	694	3,460	515.7	4.99	100.58	1.50	2,425.5	539	4.5
Okayama	*7,115	1,922	4,587	644.7	2.39	168.23	2.36	2,870.5	1,467	2.0
Hiroshima	8,479	2,844	5,214	614.8	1.83	179.91	2.12	4,156.7	1,801	2.3
Yamaguchi	6,112	1,405	3,903	638.6	2.78	110.80	1.81	2,463.8	1,038	2.4
Tokushima	4,147	756	2,491	600.7	3.29	75.97	1.83	1,438.6	599	2.4
Kagawa	*1,877	976	1,933	1029.9	1.98	65.99	3.52	1,570.2	752	2.1
Ehime	5,676	1,385	3,968	699.2	2.87	106.51	1.88	2,140.1	975	2.2
Kochi	7,104	728	3,159	444.7	4.34	76.24	1.07	1,746.8	539	3.2
Fukuoka	*4,986	5,102	4,693	941.1	0.92	241.23	4.84	3,107.2	3,162	1.0
Saga	2,441	833	1,894	776.1	2.27	72.20	2.96	1,546.2	648	2.4
Nagasaki	4,132	1,377	2,653	642.0	1.93	101.80	2.46	1,878.7	899	2.1
Kumamoto	*7,409	1,786	4,194	566.1	2.35	155.43	2.10	2,832.6	1,317	2.2
Oita	*6,341	1,166	3,602	568.0	3.09	117.59	1.85	2,588.7	886	2.9
Miyazaki	*7,735	1,104	3,183	411.4	2.88	122.14	1.58	2,131.7	901	2.4
Kagoshima	*9,187	1,648	4,831	525.8	2.93	177.43	1.93	3,538.5	1,291	2.7
Okinawa	2,281	1,434	1,576	690.0	1.10	65.27	2.86	1,453.3	1,013	1.4
Nationwide	377,981	127,095	185,091	489.7	1.46	7603.94	2.01	135,329.6	76,921	1.8

Note:

- "Area" was quoted from "Statistical reports on the land area by prefectures and municipalities in Japan (as of October 1st, 2015)" by Geospatial Information Authority of Japan, Ministry of Land, Infrastructure, Transport and Tourism.
- "Population" was quoted from data by Statistic Bureau (as of October 1st, 2015).
- "Number of vehicles owned" was quoted from data by Automobile Information Department, Automobile Bureau, Ministry of Land, Infrastructure, Transport and Tourism (as of the end of FY 2014).
- Due to rounding off of the fraction less than unit, totals and ground total may not be consistent.
- "Road area" refers to the area including Express Highways, National Highways, prefectural and municipal roads.
- Paved extension excludes pavement applied with simplified paving method.
- * Indicates areas of the prefectures with the borderlines that are not yet fixed.
- "Number of vehicles owned" does not include the numbers of trailers, small two wheelers, and two mini-cyclers.

Source: Compiled from "Annual Report the Japanese Roads 2016" by Ministry of Land, Infrastructure, Transport and Tourism

6.15 Traffic Volume of National Expressways, Urban Expressways and Common Roadways (1)

Traffic volume of national expressways and urban expressways

(Unit: Car / day)

	National Expressways			Urban Expressways	
	Tomei Expressway	Meishin Expressway	Chuo Expressway	Metropolitan Expressway	Hanshin Expressway
FY 1968	12,001	17,622	9,614	212,132	131,177
1969	21,300	24,578	10,205	323,168	177,278
1970	28,053	31,757	11,331	367,632	254,200
1971	32,282	32,135	12,833	454,574	294,579
1972	39,516	36,966	13,704	496,770	341,744
1973	44,840	41,179	16,295	526,595	368,226
1974	44,858	41,505	17,194	517,780	383,731
1975	41,636	37,700	16,618	523,642	401,236
1976	44,766	40,095	21,058	555,655	423,866
1977	48,062	43,226	24,117	596,833	444,836
1978	53,046	43,937	28,093	688,390	479,025
1979	51,349	47,379	* 20,707	704,472	492,013
1980	52,225	48,595	* 21,080	734,664	529,680
1981	54,243	49,479	* 22,866	770,508	585,587
1982	54,211	49,137	* 23,276	778,353	623,524
1983	54,945	50,119	* 25,406	765,082	654,082
1984	58,101	53,468	* 27,998	798,564	679,862
1985	60,102	54,751	* 29,331	835,796	697,000
1986	61,084	56,732	* 30,499	857,507	720,300
1987	64,817	60,087	* 32,902	928,378	743,143
1988	68,093	63,520	* 36,040	1,001,926	768,506
1989	70,790	66,518	* 39,135	1,044,538	771,921
1990	73,269	69,522	* 42,114	1,108,131	805,458
1991	74,785	70,084	* 41,704	1,129,474	821,166
1992	74,571	69,826	* 42,449	1,131,062	828,248
1993	74,419	69,217	* 41,531	1,114,010	833,610
1994	76,203	67,918	* 42,616	1,122,810	830,195
1995	76,839	66,422	* 42,510	1,152,295	708,576
1996	79,052	70,788	* 43,020	1,164,167	864,169
1997	77,710	71,365	* 42,148	1,147,210	940,151
1998	76,562	70,962	* 40,971	1,155,504	951,599
1999	76,366	72,146	* 41,063	1,158,974	920,291
2000	77,637	73,110	* 40,708	1,152,336	919,885
2001	77,065	72,669	* 40,231	1,147,468	905,613
2002	76,657	71,810	* 39,466	1,118,534	888,631
2003	76,356	70,458	* 39,321	1,117,653	893,842
2004	76,895	71,368	* 39,290	1,115,716	904,619
2005	78,646	73,198	* 39,834	1,142,913	910,933
2006	79,029	73,582	* 40,234	1,149,245	912,849
2007	78,484	73,002	* 41,527	1,147,000	899,853
2008	75,162	64,735	* 40,892	1,114,678	870,970
2009	79,286	67,259	* 43,254	1,119,739	861,408
2010	80,543	66,987	* 45,555	1,113,870	876,062
2011	79,872	65,882	* 44,227	956,459	727,952
2012	63,828	65,335	* 42,460	949,430	723,970
2013	64,084	66,943	* 41,909	950,495	740,954
2014	62,361	62,499	* 39,166	943,833	734,239

Notes:

- Figures for Urban Expressways refers to average traffic volume per day.
- Figures for Chuo Expressway refers to the average traffic volume of the whole of Fujiyoshida line.

However, * indicates the average traffic volume between Hachioji and Kawaguchiko.

Source: Compiled from Annual Report of Road Statistics by Ministry of Land, Infrastructure, Transport and Tourism

6.15 Traffic Volume of National Expressways, Urban Expressways and Common Roadways (2)**Traffic volume of common roadway**

(Unit: Car / 12 hours)

Types of road/Route name	FY1980	1983	1985	1988	1990	1994	1997	1999	2005	2010
National highway (direct control)	10,065	10,462	10,573	11,566	12,097	12,768	13,275	13,404	13,237	12,197
National highway (non-direct control)	4,538	4,573	4,681	5,237	5,576	5,708	6,158	6,227	6,308	6,261
National highway total	7,183	7,082	7,200	7,956	8,375	8,452	8,929	9,028	9,049	8,651
Major regional roads	3,658	3,679	3,747	4,122	4,360	4,613	4,906	5,008	5,101	4,944
Prefectural road	2,003	2,142	2,187	2,426	2,588	2,690	2,862	2,918	2,934	2,839
Prefectural road total	2,568	2,757	2,809	3,100	3,290	3,586	3,793	3,869	3,919	3,793
TOTAL	3,675	3,938	4,004	4,419	4,670	5,073	5,329	5,415	5,463	5,267
Route 1 From Tokyo to Osaka	20,011	20,741	21,104	21,914	22,013	22,673	23,272	23,161	22,840	22,912
Route 2 From Osaka to Kitakyushu	19,492	20,241	20,629	22,058	22,835	24,286	25,329	24,757	24,896	23,780
Route 3 From Kitakyushu to Kagoshima	15,229	15,836	16,067	17,381	17,987	18,917	19,463	19,193	18,430	18,439
Route 4 From Tokyo to Aomori	13,586	13,596	14,087	15,036	15,628	16,940	17,533	18,436	19,167	18,526
Route 5 From Hakodate to Sapporo	8,215	8,329	8,598	9,119	10,016	10,618	11,614	11,409	11,005	9,440

Notes:

- Figures are the average traffic volume during 12 hours in daytime (7-19 o'clock).
- Traffic volume is defined as the traffic volume excluding that in road-closed sections.

Source: "Road traffic census," Ministry of Land, Infrastructure, and Tourism

6.16 Changes in Kilometers Traveling (one million kilometers)

	Kilometers travelling	Index
FY 1971	243,479	100.0
1972	259,593	106.6
1973	276,194	113.4
1974	266,485	109.4
1975	286,345	117.6
1976	309,698	127.2
1977	342,326	140.6
1978	361,261	148.4
1979	381,951	156.9
1980	389,052	159.8
1981	394,658	162.1
1982	403,101	165.6
1983	408,928	168.0
1984	415,743	170.8
1985	428,442	176.0
1986	441,613	181.4
1987	457,858	188.0
1988	478,289	196.4
1989	501,187	205.8
1990	527,964	216.8
1991	551,110	226.3
1992	566,275	232.6
1993	568,500	233.5
1994	576,132	236.6
1995	596,363	244.9
1996	610,183	250.6
1997	615,099	252.6
1998	613,951	252.2
1999	626,286	257.2
2000	630,755	259.1
2001	639,818	262.8
2002	634,395	260.6
2003	628,769	258.2
2004	610,336	250.7
2005	592,489	243.3
2006	580,483	238.4
2007	573,806	236.7
2008	552,230	226.8
2009	546,041	224.3
2010	484,435	199.0
2011	493,631	202.7
2012	503,953	207.0
2013	501,478	206.0
2014	484,636	199.0

Notes:

- As for the Index, FY1971=100.
- Light motor vehicles are excluded.

•Due to the influence of the Great East Japan Earthquake, figures for 2011 does not include March and April data within the jurisdiction of Hokkaido District Transport Bureau and Tohoku District Transport Bureau.

Source: Compiled from "Transportation censuses," Ministry of Land, Infrastructure, Transport and Tourism

6.17 Changes in number of the next-generation vehicles

Number of vehicles owned	Electric	Plug-in hybrid	Fuel-cell	Hybrid	CNG
FY2009 End	1,941	165	-	983,831	23,137
FY2010 End	9,030	379	-	1,418,400	22,496
FY2011 End	22,262	4,132	-	2,029,009	21,581
FY2012 End	38,707	17,281	-	2,852,105	20,484
FY2013 End	54,757	30,171	-	3,813,387	19,042
FY2014 End	70,706	44,012	150	4,717,344	17,598
FY2015 End	80,511	57,130	630	5,764,401	15,771

Number of vehicles sold	Clean diesel
FY2009	4,562
2010	9,736
2011	9,072
2012	40,567
2013	76,141
2014	79,565
2015	153,592
2016	142,660

Source:

- Other than clean-diesel vehicles: Next Generation Vehicle Promotion Center, Automobile Inspection & Registration Information Association
- Clean-diesel vehicles: Clean Diesel Promotion Association

6.18 Changes in number of fueling facilities for next-generation vehicles

Natural gas (quick charging)

(Units)

FY 1994 End	24
1998	82
2003	270
2008	344
2009	342
2010	333
2011	321
2012	314
2013	300
2014	290

Electric (quick charging)

(Unit: Location)

Apr. 2010	193
Oct.	276
Apr. 2011	629
Oct.	763
Apr. 2012	1,154
Oct.	1,344
Apr. 2013	1,677
Oct.	1,759
Mar. 2014	1,882
Sep.	2,129
Mar. 2015	3,087
Oct.	5,484
Apr. 2016	6,469

Commercial hydrogen station

(Unit: Location)

FY2015 End	76
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Hydrogen fueling station derived from renewable energy

(Unit: Location)

FY2015 End	2
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Source: Compiled from materials of Japan Revitalization Strategy Revision 2016 , The Japan Gas Association and CHAdeMO Association

6.19 Trends in annual average concentration of Sulfur Dioxide (Ambient air pollution monitoring stations/Roadside air pollution monitoring stations)

	Ambient air pollution monitoring stations		Roadside air pollution monitoring stations	
	Yearly average (ppm)	Number of stations	Yearly average (ppm)	Number of stations
FY1974	0.017	1,125	0.022	24
1975	0.015	1,236	0.021	34
1976	0.014	1,353	0.020	33
1977	0.013	1,414	0.021	40
1978	0.011	1,456	0.018	42
1979	0.010	1,532	0.017	41
1980	0.009	1,571	0.014	43
1981	0.008	1,585	0.012	41
1982	0.007	1,603	0.012	46
1983	0.007	1,612	0.011	52
1984	0.007	1,623	0.011	51
1985	0.006	1,609	0.010	49
1986	0.006	1,608	0.010	49
1987	0.006	1,603	0.011	53
1988	0.006	1,601	0.012	58
1989	0.006	1,599	0.012	65
1990	0.006	1,602	0.012	69
1991	0.006	1,607	0.011	70
1992	0.005	1,614	0.009	78
1993	0.005	1,601	0.007	82
1994	0.005	1,604	0.008	91
1995	0.005	1,608	0.008	94
1996	0.005	1,612	0.008	101
1997	0.005	1,595	0.006	104
1998	0.004	1,579	0.006	103
1999	0.004	1,551	0.005	101
2000	0.005	1,501	0.006	96
2001	0.005	1,489	0.006	95
2002	0.004	1,468	0.005	97
2003	0.004	1,395	0.004	92
2004	0.004	1,361	0.004	89
2005	0.004	1,319	0.004	85
2006	0.003	1,265	0.004	86
2007	0.003	1,236	0.003	82
2008	0.003	1,171	0.003	72
2009	0.003	1,129	0.003	68
2010	0.003	1,114	0.003	68
2011	0.002	1,066	0.003	61
2012	0.002	1,022	0.002	59
2013	0.002	1,011	0.002	58
2014	0.002	1,003	0.002	55
2015	0.002	974	0.002	51

Note:

The figures indicate historical changes in arithmetic means of the annual averages at valid stations.

Source: Compiled from "Air pollution in FY 2015 ," Ministry of the Environment

6.20 Achievement of environmental quality standards for concentration of Sulfur Dioxide (Ambient air pollution monitoring stations/roadside air pollution monitoring stations)

	Ambient air pollution monitoring stations			Roadside air pollution monitoring stations		
	Number of stations where standards were met	Number of valid monitoring stations	Achievement rate (%)	Number of stations where standards were met	Number of valid monitoring stations	Achievement rate (%)
FY1979	1,485	1,532	96.9	35	41	85.4
1980	1,546	1,571	98.4	41	43	95.3
1981	1,569	1,585	99.0	40	42	95.2
1982	1,596	1,603	99.6	44	46	95.7
1983	1,603	1,612	99.4	52	52	100.0
1984	1,614	1,623	99.4	50	51	98.0
1985	1,603	1,609	99.6	49	49	100.0
1986	1,600	1,608	99.5	48	49	98.0
1987	1,596	1,603	99.6	52	53	98.1
1988	1,596	1,601	99.7	57	58	98.3
1989	1,591	1,599	99.5	62	64	96.9
1990	1,598	1,602	99.8	65	68	95.6
1991	1,601	1,607	99.6	69	70	98.6
1992	1,608	1,614	99.6	77	78	98.7
1993	1,598	1,601	99.8	82	82	100.0
1994	1,600	1,604	99.8	91	91	100.0
1995	1,603	1,608	99.7	94	94	100.0
1996	1,610	1,612	99.9	101	101	100.0
1997	1,590	1,595	99.7	104	104	100.0
1998	1,575	1,579	99.7	103	103	100.0
1999	1,547	1,551	99.7	101	101	100.0
2000	1,415	1,501	94.3	90	96	93.8
2001	1,483	1,489	99.6	95	95	100.0
2002	1,465	1,468	99.8	96	97	99.0
2003	1,391	1,395	99.7	92	92	100.0
2004	1,359	1,361	99.9	89	89	100.0
2005	1,315	1,319	99.7	85	85	100.0
2006	1,263	1,265	99.8	86	86	100.0
2007	1,234	1,236	99.8	82	82	100.0
2008	1,169	1,171	99.8	72	72	100.0
2009	1,125	1,129	99.6	68	68	100.0
2010	1,111	1,114	99.7	68	68	100.0
2011	1,062	1,066	99.6	61	61	100.0
2012	1,019	1,022	99.7	59	59	100.0
2013	1,008	1,011	99.7	58	58	100.0
2014	999	1,003	99.6	55	55	100.0
2015	973	974	99.9	51	51	100.0

Source: Compiled from "Air pollution in FY 2015," Ministry of the Environment

6.21 Trends in annual average concentration of Nitrogen Dioxide (NO₂) and Nitrogen Monoxide (NO) (Ambient air pollution monitoring stations / Roadside air pollution monitoring stations)

	Ambient air pollution monitoring stations				Roadside air pollution monitoring stations			
	Nitrogen dioxide		Nitrogen monoxide		Nitrogen dioxide		Nitrogen monoxide	
	Annual average (ppm)	Number of monitoring stations	Annual average (ppm)	Number of monitoring stations	Annual average (ppm)	Number of monitoring stations	Annual average (ppm)	Number of monitoring stations
FY1977	0.019	891	0.012	886	0.037	195	0.059	195
1978	0.017	981	0.014	971	0.033	205	0.075	206
1979	0.016	1,080	0.012	1,075	0.033	213	0.070	213
1980	0.016	1,169	0.012	1,168	0.033	232	0.068	234
1981	0.015	1,215	0.012	1,210	0.032	246	0.068	246
1982	0.015	1,245	0.011	1,243	0.032	260	0.064	262
1983	0.015	1,283	0.010	1,280	0.031	274	0.060	274
1984	0.015	1,302	0.011	1,300	0.031	282	0.058	283
1985	0.014	1,309	0.011	1,306	0.030	281	0.057	280
1986	0.015	1,321	0.011	1,319	0.031	282	0.059	283
1987	0.016	1,324	0.012	1,323	0.032	289	0.060	289
1988	0.016	1,337	0.012	1,337	0.032	299	0.058	299
1989	0.016	1,357	0.012	1,356	0.032	307	0.057	307
1990	0.016	1,367	0.011	1,365	0.032	315	0.055	315
1991	0.017	1,378	0.013	1,378	0.033	325	0.056	325
1992	0.016	1,406	0.011	1,404	0.032	336	0.052	336
1993	0.017	1,420	0.012	1,419	0.032	346	0.052	346
1994	0.017	1,439	0.011	1,438	0.032	359	0.050	359
1995	0.017	1,453	0.011	1,453	0.032	369	0.050	369
1996	0.017	1,460	0.012	1,460	0.033	373	0.051	373
1997	0.017	1,457	0.012	1,457	0.032	385	0.049	385
1998	0.017	1,466	0.011	1,466	0.031	392	0.048	392
1999	0.016	1,460	0.010	1,460	0.030	394	0.045	394
2000	0.017	1,466	0.010	1,466	0.030	395	0.044	395
2001	0.016	1,465	0.010	1,465	0.030	399	0.043	399
2002	0.016	1,460	0.009	1,461	0.029	413	0.040	413
2003	0.016	1,454	0.009	1,454	0.029	426	0.037	426
2004	0.015	1,444	0.008	1,444	0.028	434	0.035	434
2005	0.015	1,424	0.007	1,424	0.027	437	0.032	437
2006	0.015	1,397	0.007	1,397	0.027	441	0.029	441
2007	0.013	1,397	0.006	1,397	0.025	431	0.027	431
2008	0.013	1,366	0.005	1,366	0.024	421	0.024	421
2009	0.012	1,351	0.005	1,351	0.023	423	0.021	423
2010	0.011	1,332	0.004	1,332	0.022	416	0.020	416
2011	0.011	1,308	0.004	1,308	0.021	411	0.019	411
2012	0.011	1,285	0.004	1,285	0.020	406	0.017	406
2013	0.010	1,278	0.003	1,278	0.020	405	0.016	405
2014	0.010	1,275	0.003	1,275	0.019	403	0.014	403
2015	0.010	1,253	0.003	1,253	0.019	400	0.013	400

Note:

The data show chronological changes of simple means of annual averages at valid stations.

Source: Compiled from "Air Pollution in FY 2015," Ministry of the Environment

6.22 Achievement situation of environmental quality standards for Nitrogen Dioxide (Ambient air pollution monitoring stations / Roadside traffic environment monitoring stations)

	Ambient air pollution monitoring stations			Roadside traffic environment monitoring stations		
	Number of monitoring stations recording levels that met criteria	Number of valid monitoring stations	Achievement rate (%)	Number of monitoring stations recording levels that met criteria	Number of valid monitoring stations	Achievement rate (%)
FY1985	1,289	1,309	98.5	215	280	76.8
1986	1,287	1,321	97.4	212	282	75.2
1987	1,244	1,324	94.0	181	289	62.6
1988	1,282	1,337	95.9	204	299	68.2
1989	1,292	1,357	95.2	201	307	65.5
1990	1,280	1,367	93.6	202	314	64.3
1991	1,297	1,378	94.1	204	325	62.8
1992	1,369	1,406	97.4	240	336	71.4
1993	1,356	1,420	95.5	232	346	67.1
1994	1,377	1,439	95.7	242	359	67.4
1995	1,417	1,453	97.5	260	369	70.5
1996	1,407	1,460	96.4	241	373	64.6
1997	1,389	1,457	95.3	253	385	65.7
1998	1,382	1,466	94.3	267	392	68.1
1999	1,444	1,460	98.9	310	394	78.7
2000	1,454	1,466	99.2	316	395	80.0
2001	1,451	1,465	99.0	317	399	79.4
2002	1,447	1,460	99.1	345	413	83.5
2003	1,453	1,454	99.9	365	426	85.7
2004	1,444	1,444	100.0	387	434	89.2
2005	1,423	1,424	99.9	399	437	91.3
2006	1,397	1,397	100.0	400	441	90.7
2007	1,379	1,379	100.0	407	431	94.4
2008	1,366	1,366	100.0	402	421	95.5
2009	1,351	1,351	100.0	405	423	95.7
2010	1,332	1,332	100.0	407	416	97.8
2011	1,308	1,308	100.0	409	411	99.5
2012	1,285	1,285	100.0	403	406	99.3
2013	1,278	1,278	100.0	401	405	99.0
2014	1,275	1,275	100.0	401	403	99.5
2015	1,253	1,253	100.0	399	400	99.5

Source: "Air Pollution in FY 2015," Ministry of the Environment

6.23 Achievement situation of environmental quality standards for Nitrogen Dioxide by prefecture (Ambient Air Pollution Monitoring Stations)

	FY 2010			FY 2011			FY 2012			FY 2013			FY 2014			FY 2015		
	Number of valid monitoring stations	Number of monitoring stations recording levels that met criteria	Achievement rate (%)	Number of valid monitoring stations	Number of monitoring stations recording levels that met criteria	Achievement rate (%)	Number of valid monitoring stations	Number of monitoring stations recording levels that met criteria	Achievement rate (%)	Number of valid monitoring stations	Number of monitoring stations recording levels that met criteria	Achievement rate (%)	Number of valid monitoring stations	Number of monitoring stations recording levels that met criteria	Achievement rate (%)	Number of valid monitoring stations	Number of monitoring stations recording levels that met criteria	Achievement rate (%)
Hokkaido	70	70	100.0	69	69	100.0	67	67	100.0	63	63	100.0	62	62	100.0	61	61	100.0
Aomori	14	14	100.0	14	14	100.0	14	14	100.0	13	13	100.0	13	13	100.0	13	13	100.0
Iwate	11	11	100.0	10	10	100.0	12	12	100.0	12	12	100.0	12	12	100.0	12	12	100.0
Miyagi	26	26	100.0	22	22	100.0	23	23	100.0	24	24	100.0	24	24	100.0	24	24	100.0
Akita	13	13	100.0	13	13	100.0	13	13	100.0	13	13	100.0	13	13	100.0	13	13	100.0
Yamagata	17	17	100.0	17	17	100.0	16	16	100.0	16	16	100.0	16	16	100.0	15	15	100.0
Fukushima	26	26	100.0	25	25	100.0	23	23	100.0	21	21	100.0	20	20	100.0	19	19	100.0
Ibaraki	47	47	100.0	45	45	100.0	38	38	100.0	40	40	100.0	42	42	100.0	33	33	100.0
Tochigi	18	18	100.0	17	17	100.0	17	17	100.0	17	17	100.0	17	17	100.0	17	17	100.0
Gunma	20	20	100.0	14	14	100.0	14	14	100.0	14	14	100.0	14	14	100.0	14	14	100.0
Saitama	55	55	100.0	56	56	100.0	56	56	100.0	54	54	100.0	54	54	100.0	53	53	100.0
Chiba	112	112	100.0	112	112	100.0	106	106	100.0	105	105	100.0	105	105	100.0	99	99	100.0
Tokyo	45	45	100.0	46	46	100.0	46	46	100.0	46	46	100.0	46	46	100.0	46	46	100.0
Kanagawa	61	61	100.0	61	61	100.0	61	61	100.0	60	60	100.0	60	60	100.0	60	60	100.0
Niigata	26	26	100.0	26	26	100.0	26	26	100.0	25	25	100.0	22	22	100.0	21	21	100.0
Toyama	17	17	100.0	15	15	100.0	14	14	100.0	14	14	100.0	14	14	100.0	14	14	100.0
Ishikawa	19	19	100.0	19	19	100.0	17	17	100.0	17	17	100.0	17	17	100.0	17	17	100.0
Fukui	22	22	100.0	22	22	100.0	22	22	100.0	22	22	100.0	22	22	100.0	18	18	100.0
Yamanashi	10	10	100.0	9	9	100.0	10	10	100.0	10	10	100.0	10	10	100.0	10	10	100.0
Nagano	16	16	100.0	14	14	100.0	15	15	100.0	15	15	100.0	15	15	100.0	15	15	100.0
Gifu	11	11	100.0	11	11	100.0	11	11	100.0	11	11	100.0	11	11	100.0	11	11	100.0
Shizuoka	50	50	100.0	49	49	100.0	47	47	100.0	49	49	100.0	48	48	100.0	48	48	100.0
Aichi	88	88	100.0	86	86	100.0	84	84	100.0	84	84	100.0	85	85	100.0	82	82	100.0
Mie	21	21	100.0	21	21	100.0	22	22	100.0	24	24	100.0	25	25	100.0	25	25	100.0
Shiga	9	9	100.0	8	8	100.0	9	9	100.0	10	10	100.0	10	10	100.0	10	10	100.0
Kyoto	26	26	100.0	26	26	100.0	24	24	100.0	25	25	100.0	24	24	100.0	24	24	100.0
Osaka	66	66	100.0	66	66	100.0	65	65	100.0	66	66	100.0	66	66	100.0	66	66	100.0
Hyogo	70	70	100.0	69	69	100.0	70	70	100.0	67	67	100.0	67	67	100.0	66	66	100.0
Nara	11	11	100.0	11	11	100.0	11	11	100.0	8	8	100.0	9	9	100.0	9	9	100.0
Wakayama	25	25	100.0	24	24	100.0	24	24	100.0	25	25	100.0	25	25	100.0	26	26	100.0
Tottori	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0
Shimane	7	7	100.0	7	7	100.0	6	6	100.0	7	7	100.0	5	5	100.0	5	5	100.0
Okayama	44	44	100.0	44	44	100.0	44	44	100.0	44	44	100.0	44	44	100.0	44	44	100.0
Hiroshima	33	33	100.0	33	33	100.0	33	33	100.0	33	33	100.0	32	32	100.0	33	33	100.0
Yamaguchi	26	26	100.0	26	26	100.0	26	26	100.0	26	26	100.0	26	26	100.0	26	26	100.0
Tokushima	19	19	100.0	17	17	100.0	17	17	100.0	17	17	100.0	16	16	100.0	17	17	100.0
Kagawa	17	17	100.0	17	17	100.0	17	17	100.0	17	17	100.0	18	18	100.0	16	16	100.0
Ehime	12	12	100.0	12	12	100.0	12	12	100.0	12	12	100.0	12	12	100.0	12	12	100.0
Kochi	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0	5	5	100.0	5	5	100.0
Fukuoka	37	37	100.0	38	38	100.0	38	38	100.0	38	38	100.0	38	38	100.0	42	42	100.0
Saga	11	11	100.0	11	11	100.0	11	11	100.0	11	11	100.0	13	13	100.0	13	13	100.0
Nagasaki	20	20	100.0	20	20	100.0	20	20	100.0	20	20	100.0	19	19	100.0	17	17	100.0
Kumamoto	27	27	100.0	28	28	100.0	27	27	100.0	28	28	100.0	28	28	100.0	28	28	100.0
Oita	22	22	100.0	22	22	100.0	22	22	100.0	22	22	100.0	20	20	100.0	24	24	100.0
Miyazaki	14	14	100.0	14	14	100.0	14	14	100.0	11	11	100.0	12	12	100.0	10	10	100.0
Kagoshima	10	10	100.0	10	10	100.0	10	10	100.0	10	10	100.0	10	10	100.0	10	10	100.0
Okinawa	5	5	100.0	6	6	100.0	5	5	100.0	6	6	100.0	6	6	100.0	7	7	100.0
Nationwide	1,332	1,332	100.0	1,308	1,308	100.0	1,285	1,285	100.0	1,278	1,278	100.0	1,275	1,275	100.0	1,253	1,253	100.0

Source: "Air Pollution in FY 2015," Ministry of the Environment

6.24 Achievement situation of environmental standards for Nitrogen Dioxide (NO₂) by prefecture (Roadside air pollution monitoring stations)

	2010			2011			2012			2013			2014			2015		
	Number of valid monitoring stations	Number of stations where standards were met	Achievement rate (%)	Number of valid monitoring stations	Number of stations where standards were met	Achievement rate (%)	Number of valid monitoring stations	Number of stations where standards were met	Achievement rate (%)	Number of valid monitoring stations	Number of stations where standards were met	Achievement rate (%)	Number of valid monitoring stations	Number of stations where standards were met	Achievement rate (%)	Number of valid monitoring stations	Number of stations where standards were met	Achievement rate (%)
Hokkaido	15	15	100.0	15	15	100.0	15	15	100.0	15	15	100.0	16	16	100.0	16	16	100.0
Aomori	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0
Iwate	3	3	100.0	2	2	100.0	2	2	100.0	2	2	100.0	2	2	100.0	2	2	100.0
Miyagi	10	10	100.0	7	7	100.0	9	9	100.0	9	9	100.0	9	9	100.0	9	9	100.0
Akita	3	3	100.0	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0
Yamagata	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0
Fukushima	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0
Ibaraki	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0
Tochigi	10	10	100.0	11	11	100.0	11	11	100.0	11	11	100.0	11	11	100.0	11	11	100.0
Gunma	8	8	100.0	8	8	100.0	8	8	100.0	8	8	100.0	8	8	100.0	8	8	100.0
Saitama	28	28	100.0	27	27	100.0	27	27	100.0	27	27	100.0	27	27	100.0	27	27	100.0
Chiba	29	28	96.6	28	28	100.0	27	27	100.0	27	27	100.0	27	27	100.0	27	27	100.0
Tokyo	39	36	92.3	39	38	97.4	39	37	94.9	39	37	94.9	39	38	97.4	39	38	97.4
Kanagawa	31	28	90.3	31	30	96.8	31	30	96.8	31	31	100.0	30	29	96.7	30	30	100.0
Niigata	5	5	100.0	4	4	100.0	4	4	100.0	4	4	100.0	3	3	100.0	3	3	100.0
Toyama	7	7	100.0	7	7	100.0	7	7	100.0	7	7	100.0	7	7	100.0	7	7	100.0
Ishikawa	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0
Fukui	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0	3	3	100.0
Yamanashi	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0
Nagano	7	7	100.0	7	7	100.0	7	7	100.0	7	7	100.0	7	7	100.0	7	7	100.0
Gifu	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0
Shizuoka	10	10	100.0	10	10	100.0	9	9	100.0	9	9	100.0	9	9	100.0	10	10	100.0
Aichi	30	29	96.7	30	30	100.0	29	29	100.0	30	29	96.7	30	30	100.0	30	30	100.0
Mie	7	6	85.7	7	7	100.0	7	7	100.0	7	7	100.0	7	7	100.0	7	7	100.0
Shiga	5	5	100.0	5	5	100.0	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0
Kyoto	9	9	100.0	8	8	100.0	7	7	100.0	7	7	100.0	7	7	100.0	7	7	100.0
Osaka	35	35	100.0	36	36	100.0	35	35	100.0	36	36	100.0	36	36	100.0	36	36	100.0
Hyogo	32	32	100.0	32	32	100.0	32	32	100.0	32	32	100.0	31	31	100.0	32	32	100.0
Nara	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0	2	2	100.0	2	2	100.0
Wakayama	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tottori	2	2	100.0	2	2	100.0	2	2	100.0	2	2	100.0	2	2	100.0	2	2	100.0
Shimane	2	2	100.0	2	2	100.0	2	2	100.0	1	1	100.0	1	1	100.0	1	1	100.0
Okayama	10	10	100.0	10	10	100.0	10	10	100.0	10	10	100.0	10	10	100.0	10	10	100.0
Hiroshima	7	7	100.0	7	7	100.0	7	7	100.0	7	7	100.0	7	7	100.0	7	7	100.0
Yamaguchi	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0
Tokushima	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0
Kagawa	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0	3	3	100.0	3	3	100.0
Ehime	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0
Kochi	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0
Fukuoka	16	16	100.0	16	16	100.0	16	16	100.0	15	14	93.3	16	16	100.0	15	15	100.0
Saga	2	2	100.0	2	2	100.0	2	2	100.0	2	2	100.0	2	2	100.0	-	-	-
Nagasaki	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0
Kumamoto	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0
Oita	2	2	100.0	2	2	100.0	2	2	100.0	2	2	100.0	2	2	100.0	2	2	100.0
Miyazaki	5	5	100.0	5	5	100.0	5	5	100.0	5	5	100.0	5	5	100.0	4	4	100.0
Kagoshima	2	2	100.0	2	2	100.0	2	2	100.0	2	2	100.0	2	2	100.0	2	2	100.0
Okinawa	2	2	100.0	2	2	100.0	1	1	100.0	-	-	-	1	1	100.0	1	1	100.0
Nationwide	416	407	97.8	411	409	99.5	406	403	99.3	405	401	99.0	403	401	99.5	400	399	99.8

Source: Compiled from "Air Pollution in FY 2015," Ministry of the Environment

6.25 Trends in annual average concentration of Suspended Particulate Matters (Ambient Air Pollution Monitoring Stations/Roadside Air Pollution Monitoring Stations)

(Unit: mg/m³)

	Ambient Air Pollution Monitoring Stations	Roadside Air Pollution Monitoring Stations
FY1978	0.047	0.056
1979	0.044	0.054
1980	0.042	0.053
1981	0.039	0.062
1982	0.038	0.059
1983	0.034	0.053
1984	0.037	0.051
1985	0.035	0.048
1986	0.037	0.050
1987	0.037	0.050
1988	0.036	0.048
1989	0.036	0.049
1990	0.037	0.050
1991	0.037	0.050
1992	0.035	0.047
1993	0.034	0.045
1994	0.035	0.048
1995	0.034	0.047
1996	0.034	0.047
1997	0.033	0.046
1998	0.032	0.043
1999	0.028	0.037
2000	0.031	0.040
2001	0.030	0.038
2002	0.027	0.035
2003	0.026	0.033
2004	0.025	0.031
2005	0.027	0.031
2006	0.026	0.030
2007	0.024	0.027
2008	0.022	0.026
2009	0.021	0.024
2010	0.021	0.023
2011	0.020	0.022
2012	0.019	0.021
2013	0.020	0.022
2014	0.020	0.021
2015	0.019	0.020

Source: Compiled from "Air Pollution in FY 2015," Ministry of the Environment

6.26 Achievement situation of environmental quality standards for Suspended Particulate Matters (Ambient air pollution monitoring stations / Roadside air pollution monitoring stations)

	Ambient Air Pollution Monitoring Stations			Roadside Air Pollution Monitoring Stations		
	Number of stations where standards were met	Number of valid monitoring stations	Achievement rate (%)	Number of stations where standards were met	Number of valid monitoring stations	Achievement rate (%)
FY1985	393	755	52.1	17	66	25.8
1986	486	855	56.8	21	74	28.4
1987	504	956	52.7	26	90	28.9
1988	515	1,094	47.1	31	119	26.1
1989	784	1,203	65.2	55	148	37.2
1990	552	1,282	43.1	33	156	21.2
1991	670	1,349	49.7	50	166	30.1
1992	811	1,409	57.6	61	182	33.5
1993	839	1,441	58.2	77	190	40.5
1994	918	1,485	61.8	69	210	32.9
1995	960	1,511	63.5	76	216	35.2
1996	1,070	1,533	69.8	97	229	42.4
1997	944	1,526	61.9	85	250	34.0
1998	1,029	1,528	67.3	96	269	35.7
1999	1,378	1,529	90.1	215	282	76.2
2000	1,292	1,529	84.4	199	301	66.1
2001	1,025	1,539	66.6	150	319	47.0
2002	807	1,538	52.5	123	359	34.3
2003	1,410	1,520	92.8	301	390	77.2
2004	1,486	1,508	98.5	393	409	96.1
2005	1,426	1,480	96.4	385	411	93.7
2006	1,363	1,465	93.0	388	418	92.8
2007	1,295	1,447	89.5	365	412	88.6
2008	1,416	1,422	99.6	400	403	99.3
2009	1,370	1,386	98.8	404	406	99.5
2010	1,278	1,374	93.0	371	399	93.0
2011	927	1,340	69.2	288	395	72.9
2012	1,316	1,320	99.7	393	394	99.7
2013	1,288	1,324	97.3	372	393	94.7
2014	1,318	1,322	99.7	393	393	100.0
2015	1,297	1,302	99.6	390	391	99.7

Source: Compiled from "Air Pollution in FY 2015," Ministry of the Environment

6.27 Trends in annual average concentration of Particulate Matters

	Ambient Air Pollution Monitoring Stations		Roadside Air Pollution Monitoring Stations	
	Annual average ($\mu\text{g}/\text{m}^3$)	Number of stations	Annual average ($\mu\text{g}/\text{m}^3$)	Number of stations
FY 2010	15.1	34	17.2	12
2011	15.4	105	16.1	51
2012	14.5	312	15.4	123
2013	15.3	492	16	181
2014	14.7	672	15.5	198
2015	13.1	765	13.9	219

Achievement situation of environmental quality standards for Suspended Particulate Matters

	Ambient Air Pollution Monitoring Stations			Roadside Air Pollution Monitoring Stations		
	Number of monitoring stations recording levels that met criteria	Number of valid monitoring stations	Achievement rate (%)	Number of monitoring stations recording levels that met criteria	Number of valid monitoring stations	Achievement rate (%)
FY 2010	11	34	32.4	1	12	8.3
2011	29	105	27.6	15	51	29.4
2012	135	312	43.3	41	123	33.3
2013	79	492	16.1	24	181	13.3
2014	254	672	37.8	51	198	25.8
2015	570	765	74.5	128	219	58.4

Source: Compiled from "Air contamination in FY 2015," Ministry of the Environment

6.28 Achievement situation of environmental quality standards for Suspended Particulate Matters by prefecture (Ambient Air Pollution Monitoring Stations)

	FY2010			20011			2012			2013			2014			2015		
	Number of valid monitoring stations	Number of monitoring stations recording levels that met criteria	Achievement rate (%)	Number of valid monitoring stations	Number of monitoring stations recording levels that met criteria	Achievement rate (%)	Number of valid monitoring stations	Number of monitoring stations recording levels that met criteria	Achievement rate (%)	Number of valid monitoring stations	Number of monitoring stations recording levels that met criteria	Achievement rate (%)	Number of valid monitoring stations	Number of monitoring stations recording levels that met criteria	Achievement rate (%)	Number of valid monitoring stations	Number of monitoring stations recording levels that met criteria	Achievement rate (%)
Hokkaido	60	60	100.0	58	57	98.3	57	57	100.0	53	53	100.0	50	49	98.0	49	49	100.0
Aomori	14	14	100.0	14	14	100.0	14	14	100.0	14	14	100.0	14	14	100.0	14	14	100.0
Iwate	8	8	100.0	8	8	100.0	8	8	100.0	8	8	100.0	8	8	100.0	8	8	100.0
Miyagi	27	27	100.0	23	23	100.0	23	23	100.0	26	25	96.2	25	25	100.0	27	27	100.0
Akita	17	17	100.0	17	17	100.0	17	17	100.0	17	17	100.0	17	17	100.0	17	17	100.0
Yamagata	17	17	100.0	17	17	100.0	16	16	100.0	16	16	100.0	16	16	100.0	16	16	100.0
Fukushima	23	23	100.0	22	22	100.0	24	24	100.0	27	27	100.0	27	27	100.0	27	27	100.0
Ibaraki	46	46	100.0	45	45	100.0	37	37	100.0	44	41	93.2	45	45	100.0	35	35	100.0
Tochigi	24	24	100.0	22	22	100.0	23	23	100.0	23	23	100.0	21	21	100.0	20	20	100.0
Gunma	22	22	100.0	16	16	100.0	17	17	100.0	15	15	100.0	18	18	100.0	18	18	100.0
Saitama	55	55	100.0	56	56	100.0	55	55	100.0	55	54	98.2	55	55	100.0	55	55	100.0
Chiba	110	110	100.0	111	110	99.1	104	104	100.0	103	88	85.4	103	103	100.0	96	96	100.0
Tokyo	47	47	100.0	48	48	100.0	48	48	100.0	48	47	97.9	48	48	100.0	48	48	100.0
Kanagawa	61	61	100.0	61	61	100.0	61	61	100.0	60	56	93.3	60	59	98.3	60	60	100.0
Niigata	26	26	100.0	22	22	100.0	22	22	100.0	20	20	100.0	19	19	100.0	20	20	100.0
Toyama	22	22	100.0	20	20	100.0	19	19	100.0	19	19	100.0	19	19	100.0	19	19	100.0
Ishikawa	19	19	100.0	19	19	100.0	18	18	100.0	18	18	100.0	18	18	100.0	18	18	100.0
Fukui	26	26	100.0	26	26	100.0	26	26	100.0	26	26	100.0	26	26	100.0	21	21	100.0
Yamanashi	10	10	100.0	10	10	100.0	10	10	100.0	10	8	80.0	10	10	100.0	10	10	100.0
Nagano	14	14	100.0	10	10	100.0	10	10	100.0	10	10	100.0	10	10	100.0	10	10	100.0
Gifu	15	15	100.0	14	12	85.7	14	14	100.0	14	14	100.0	14	14	100.0	14	13	92.9
Shizuoka	47	47	100.0	47	44	93.6	44	44	100.0	44	44	100.0	43	43	100.0	41	41	100.0
Aichi	96	96	100.0	92	46	50.0	91	91	100.0	88	87	98.9	87	87	100.0	87	86	98.9
Mie	21	21	100.0	21	8	38.1	22	22	100.0	24	24	100.0	25	25	100.0	25	25	100.0
Shiga	9	9	100.0	8	7	87.5	9	9	100.0	9	9	100.0	9	9	100.0	9	9	100.0
Kyoto	25	25	100.0	25	12	48.0	22	22	100.0	23	23	100.0	22	22	100.0	22	22	100.0
Osaka	67	67	100.0	67	12	17.9	66	66	100.0	67	67	100.0	67	67	100.0	67	67	100.0
Hyogo	68	68	100.0	66	48	72.7	68	68	100.0	67	64	95.5	67	67	100.0	64	63	98.4
Nara	11	11	100.0	11	5	45.5	11	11	100.0	11	11	100.0	11	11	100.0	10	10	100.0
Wakayama	31	31	100.0	31	15	48.4	29	29	100.0	30	29	96.7	31	31	100.0	31	30	96.8
Tottori	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0	4	4	100.0	4	4	100.0
Shimane	7	7	100.0	7	4	57.1	7	7	100.0	7	7	100.0	7	7	100.0	7	7	100.0
Okayama	42	26	61.9	42	13	31.0	42	42	100.0	42	42	100.0	42	42	100.0	41	40	97.6
Hiroshima	32	24	75.0	32	15	46.9	32	32	100.0	32	32	100.0	32	32	100.0	32	32	100.0
Yamaguchi	32	24	75.0	32	7	21.9	32	32	100.0	32	32	100.0	32	32	100.0	32	32	100.0
Tokushima	18	18	100.0	17	13	76.5	17	17	100.0	17	17	100.0	17	17	100.0	17	17	100.0
Kagawa	16	7	43.8	17	5	29.4	17	16	94.1	17	17	100.0	18	18	100.0	18	18	100.0
Ehime	25	25	100.0	25	5	20.0	25	25	100.0	25	25	100.0	24	24	100.0	24	24	100.0
Kochi	5	5	100.0	5	5	100.0	5	5	100.0	5	5	100.0	8	8	100.0	8	8	100.0
Fukuoka	42	11	26.2	42	0	0.0	42	41	97.6	41	40	97.6	42	42	100.0	45	45	100.0
Saga	13	13	100.0	13	4	30.8	13	13	100.0	13	13	100.0	15	15	100.0	14	14	100.0
Nagasaki	20	9	45.0	20	2	10.0	20	20	100.0	20	20	100.0	18	18	100.0	17	17	100.0
Kumamoto	29	19	65.5	29	1	3.4	29	29	100.0	27	27	100.0	28	28	100.0	29	29	100.0
Oita	22	22	100.0	22	6	27.3	22	22	100.0	22	22	100.0	20	20	100.0	24	24	100.0
Miyazaki	10	7	70.0	10	9	90.0	10	10	100.0	11	10	90.9	9	9	100.0	10	10	100.0
Kagoshima	15	15	100.0	15	2	13.3	15	13	86.7	15	13	86.7	15	13	86.7	15	15	100.0
Okinawa	5	5	100.0	2	1	50.0	4	4	100.0	6	6	100.0	6	6	100.0	7	7	100.0
Nationwide	1,374	1,278	93.0	1,340	927	69.2	1,320	1,316	99.7	1,324	1,288	97.3	1,322	1,318	99.7	1,302	1,297	99.6

Source: Compiled from "Air Pollution in FY 2015," Ministry of the Environment

6.29 Achievement situation of environmental quality standards for Suspended Particulate Matters by prefecture (Roadside Air Pollution Monitoring Stations)

	FY2010			2011			2012			2013			2014			2015		
	Number of valid monitoring stations	Number of stations where standards were met	Achievement rate (%)	Number of valid monitoring stations	Number of stations where standards were met	Achievement rate (%)	Number of valid monitoring stations	Number of stations where standards were met	Achievement rate (%)	Number of valid monitoring stations	Number of stations where standards were met	Achievement rate (%)	Number of valid monitoring stations	Number of stations where standards were met	Achievement rate (%)	Number of valid monitoring stations	Number of stations where standards were met	Achievement rate (%)
Hokkaido	16	16	100.0	17	17	100.0	17	17	100.0	17	17	100.0	18	18	100.0	18	18	100.0
Aomori	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0
Iwate	3	3	100.0	2	2	100.0	2	2	100.0	2	2	100.0	2	2	100.0	2	2	100.0
Miyagi	9	9	100.0	8	8	100.0	9	9	100.0	9	9	100.0	9	9	100.0	9	9	100.0
Akita	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0
Yamagata	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0
Fukushima	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0
Ibaraki	4	4	100.0	4	4	100.0	4	4	100.0	4	3	75.0	4	4	100.0	4	4	100.0
Tochigi	10	10	100.0	11	11	100.0	11	11	100.0	11	10	90.9	11	11	100.0	11	11	100.0
Gunma	6	6	100.0	7	7	100.0	7	7	100.0	7	7	100.0	7	7	100.0	7	7	100.0
Saitama	25	25	100.0	23	22	95.7	26	26	100.0	27	27	100.0	27	27	100.0	27	27	100.0
Chiba	28	28	100.0	28	28	100.0	26	26	100.0	26	19	73.1	26	26	100.0	26	26	100.0
Tokyo	38	38	100.0	38	37	97.4	38	38	100.0	38	36	94.7	38	38	100.0	38	38	100.0
Kanagawa	31	30	96.8	31	31	100.0	31	31	100.0	31	27	87.1	30	30	100.0	30	30	100.0
Niigata	5	5	100.0	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0
Toyama	7	7	100.0	7	7	100.0	7	7	100.0	7	7	100.0	7	7	100.0	7	7	100.0
Ishikawa	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0
Fukui	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0	3	3	100.0
Yamanashi	2	2	100.0	2	2	100.0	2	2	100.0	2	2	100.0	2	2	100.0	2	2	100.0
Nagano	7	7	100.0	7	7	100.0	7	7	100.0	7	7	100.0	6	6	100.0	7	7	100.0
Gifu	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0	4	4	100.0
Shizuoka	10	10	100.0	10	10	100.0	9	9	100.0	9	9	100.0	9	9	100.0	10	10	100.0
Aichi	30	30	100.0	30	15	50.0	29	29	100.0	29	28	96.6	30	30	100.0	30	30	100.0
Mie	7	7	100.0	7	4	57.1	7	7	100.0	7	7	100.0	7	7	100.0	7	7	100.0
Shiga	4	4	100.0	4	3	75.0	4	4	100.0	4	4	100.0	4	4	100.0	3	3	100.0
Kyoto	9	9	100.0	8	4	50.0	7	7	100.0	7	7	100.0	7	7	100.0	7	7	100.0
Osaka	33	33	100.0	34	9	26.5	33	33	100.0	34	32	94.1	34	34	100.0	34	33	97.1
Hyogo	28	27	96.4	28	20	71.4	28	28	100.0	28	26	92.9	27	27	100.0	29	29	100.0
Nara	3	3	100.0	3	2	66.7	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0
Wakayama	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tottori	2	2	100.0	2	2	100.0	2	1	50.0	2	1	50.0	2	2	100.0	2	2	100.0
Shimane	2	2	100.0	2	1	50.0	2	2	100.0	1	1	100.0	1	1	100.0	1	1	100.0
Okayama	9	6	66.7	9	5	55.6	9	9	100.0	9	9	100.0	9	9	100.0	9	9	100.0
Hiroshima	7	3	42.9	7	0	0.0	7	7	100.0	7	7	100.0	7	7	100.0	7	7	100.0
Yamaguchi	1	1	100.0	1	0	0.0	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0
Tokushima	1	1	100.0	1	0	0.0	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0
Kagawa	3	1	33.3	3	0	0.0	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0
Ehime	1	1	100.0	1	0	0.0	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0
Kochi	1	1	100.0	1	0	0.0	1	1	100.0	1	1	100.0	1	1	100.0	1	1	100.0
Fukuoka	16	5	31.3	16	1	6.3	16	16	100.0	15	15	100.0	16	16	100.0	15	15	100.0
Saga	2	1	50.0	2	0	0.0	2	2	100.0	2	2	100.0	2	2	100.0	-	-	-
Nagasaki	3	0	0.0	3	0	0.0	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0
Kumamoto	3	2	66.7	3	0	0.0	3	3	100.0	3	3	100.0	3	3	100.0	3	3	100.0
Oita	2	2	100.0	2	0	0.0	2	2	100.0	2	2	100.0	2	2	100.0	2	2	100.0
Miyazaki	5	4	80.0	5	3	60.0	5	5	100.0	5	5	100.0	5	5	100.0	4	4	100.0
Kagoshima	2	2	100.0	2	0	0.0	2	2	100.0	2	2	100.0	2	2	100.0	2	2	100.0
Okinawa	1	1	100.0	-	-	-	1	1	100.0	-	-	-	-	-	-	-	-	-
Nationwide	399	371	93.0	395	288	72.9	394	393	99.7	393	372	94.7	393	393	100.0	391	390	99.7

Source: Compiled from "Air Pollution in FY 2015," Ministry of the Environment

6.30 Trends in annual average concentration of Carbon Monoxide (Ambient Air Pollution Monitoring Stations/Roadside Air Pollution Monitoring Stations)

	Ambient Air Pollution Monitoring Stations		Roadside Air Pollution Monitoring Stations	
	Annual average (ppm)	Number of stations	Annual average (ppm)	Number of stations
FY1977	1.2	163	2.8	287
1978	1.1	185	2.6	296
1979	1.0	200	2.3	322
1980	0.9	205	2.2	334
1981	0.9	200	1.9	282
1982	0.8	205	1.9	304
1983	0.7	189	1.7	297
1984	0.7	193	1.6	300
1985	0.7	191	1.6	299
1986	0.7	191	1.6	299
1987	0.7	187	1.6	304
1988	0.7	187	1.5	301
1989	0.7	189	1.5	305
1990	0.7	186	1.4	311
1991	0.7	190	1.4	314
1992	0.6	195	1.2	317
1993	0.6	187	1.2	328
1994	0.6	183	1.1	339
1995	0.6	185	1.1	343
1996	0.6	184	1.1	342
1997	0.6	150	1.0	329
1998	0.5	145	0.9	327
1999	0.5	138	0.9	319
2000	0.5	134	0.8	314
2001	0.5	131	0.8	312
2002	0.4	126	0.7	309
2003	0.4	99	0.7	302
2004	0.4	96	0.6	306
2005	0.4	91	0.6	304
2006	0.4	86	0.6	294
2007	0.4	78	0.5	291
2008	0.3	73	0.5	276
2009	0.3	71	0.5	270
2010	0.3	70	0.5	258
2011	0.3	70	0.5	258
2012	0.3	68	0.4	241
2013	0.3	60	0.4	243
2014	0.3	59	0.4	241
2015	0.3	57	0.4	230

Source: Compiled from "Air Pollution in FY 2015," Ministry of the Environment

6.31 Trends in annual average concentration of Non-Methane Hydrocarbon (Ambient Air Pollution Monitoring Stations / Roadside Air Pollution Monitoring Stations)

Annual Averages from 6 a.m. to 9 a.m. (ppmC)

	Ambient Air Pollution Monitoring Stations	Roadside Air Pollution Monitoring Stations
FY1985	0.35	0.57
1986	0.34	0.56
1987	0.35	0.57
1988	0.34	0.57
1989	0.33	0.53
1990	0.32	0.54
1991	0.32	0.52
1992	0.29	0.47
1993	0.27	0.42
1994	0.27	0.42
1995	0.26	0.40
1996	0.27	0.40
1997	0.26	0.38
1998	0.26	0.37
1999	0.24	0.35
2000	0.24	0.35
2001	0.23	0.34
2002	0.22	0.31
2003	0.22	0.31
2004	0.21	0.29
2005	0.21	0.28
2006	0.20	0.27
2007	0.19	0.25
2008	0.18	0.23
2009	0.17	0.22
2010	0.16	0.21
2011	0.16	0.19
2012	0.14	0.18
2013	0.14	0.18
2014	0.14	0.17
2015	0.13	0.16

Source: Compiled from "Air Pollution in FY 2015," Ministry of the Environment

6.32 Changes in nationwide average concentration of hazardous air pollutants to which environmental standards are applied

(Unit : $\mu\text{g}/\text{m}^3$)

	Benzene	Trichloroethylene	Tetrachloroethylene	Dichloromethane
FY2008	1.4	0.65	0.23	2.3
2009	1.3	0.53	0.22	1.7
2010	1.1	0.44	0.17	1.6
2011	1.2	0.53	0.18	1.6
2012	1.2	0.50	0.18	1.6
2013	1.1	0.53	0.15	1.6
2014	1.0	0.51	0.15	1.5
2015	1.0	0.48	0.14	1.7

Source: Compiled from "Monitoring Results of Hazardous Air Pollutants," Ministry of the Environment

6.33 Achievement of the Environmental Quality Standards for designated Hazardous Air Pollutants

(Unit : %)

	Benzene	Trichloroethylene	Tetrachloroethylene	Dichloromethane
FY2008	99.8	100	100	100
2009	99.8	100	100	100
2010	100	100	100	100
2011	99.5	100	100	100
2012	100	100	100	100
2013	99.8	100	100	100
2014	100	100	100	100
2015	100	100	100	100

Source: Compiled from "Monitoring Results of Hazardous Air Pollutants," Ministry of the Environment

6.34 Changes in nationwide averages of concentration of hazardous air pollutants for which guideline values are set

	Acrylonitrile	Vinyl chloride monomer	Chloroform	1,2-dichloroethane	Mercury and its compounds	Nickel compounds	Arsenic and its compounds	1,3-butadiene	Manganese and its compounds
	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	$\mu\text{g}/\text{m}^3$	ngHg/m^3	ngNi/m^3	ngAs/m^3	$\mu\text{g}/\text{m}^3$	ngMn/m^3
FY2008	0.093	0.053	0.22	0.16	2.1	4.9	1.6	0.18	30
2009	0.079	0.066	0.21	0.17	2.0	4.2	1.5	0.16	27
2010	0.073	0.055	0.19	0.16	2.0	4.0	1.4	0.14	25
2011	0.088	0.053	0.21	0.18	2.1	4.4	1.6	0.15	25
2012	0.080	0.047	0.20	0.17	2.1	4.1	1.5	0.14	24
2013	0.077	0.032	0.21	0.17	2.0	4.3	1.7	0.12	25
2014	0.070	0.046	0.23	0.20	2.0	4.1	1.6	0.11	24
2015	0.083	0.041	0.26	0.19	1.9	3.6	1.6	0.11	24

Note:

Guideline values for Arsenic and its compounds were set based on the Ninth recommendations, a report submitted by Central Environment Council in Oct, 2010. Guideline values for Manganese and its compounds were set based on the Tenth recommendations, a report submitted by Central Environment Council in April, 2014.

Source: Compiled from "Monitoring Results of Hazardous Air Pollutants," Ministry of the Environment

6.35 Changes in nationwide averages of concentration of hazardous air pollutants for which guidelines are set

(Unit:%)

	Acrylonitrile	Vinyl chloride monomer	Chloroform	1,2-dichloroethane	Mercury and its compounds	Nickel compounds	Arsenic and its compounds	1,3-butadiene	Manganese and its compounds
FY2008	99.7	100	100	99.7	100	99.7	-	100	-
2009	100	100	100	99.2	100	99.7	98.6	100	-
2010	100	100	100	100	100	100	98.9	100	-
2011	100	100	100	99.1	100	100	98.1	100	-
2012	100	100	100	99.4	100	100	98.6	100	-
2013	100	100	100	100	100	99.6	98.5	100	99.2
2014	100	100	100	99.4	100	99.6	97.9	100	100
2015	99.7	100	100	99.4	100	99.6	97.2	100	99.3

Note:

Guideline values for Arsenic and its compounds were set based on the Ninth recommendations, a report submitted by Central Environment Council in Oct, 2010.

Guideline values for Manganese and its compounds were set based on the Tenth recommendations, a report submitted by Central Environment Council in April, 2014.

Source: Compiled from "Monitoring Results of Hazardous Air Pollutants," Ministry of the Environment

6.36 Trends in number of days when photochemical oxidant alerts and warnings were issued and reported damages

	Alert/warning issuance		Damage reported	
	Number of prefectures	Total number of days	Number of prefectures	Total number of people
FY1973	21	328(2)	19	31,936
1974	22	288(2)	16	14,725
1975	21	266(5)	17	46,081
1976	21	150(0)	15	4,215
1977	19	167(0)	11	2,669
1978	22	169(3)	12	5,376
1979	16	84(0)	9	4,083
1980	16	86(0)	9	1,420
1981	9	59(0)	8	780
1982	13	73(0)	9	446
1983	17	131(0)	9	1,721
1984	16	135(1)	6	5,822
1985	16	171(0)	10	966
1986	15	85(0)	3	48
1987	18	168(0)	7	1,056
1988	16	86(0)	5	132
1989	17	63(0)	6	36
1990	22	242(0)	5	58
1991	15	121(0)	6	1,454
1992	16	164(0)	7	307
1993	15	71(0)	3	93
1994	19	175(0)	6	564
1995	19	139(0)	5	192
1996	18	99(0)	5	64
1997	20	95(0)	5	315
1998	22	135(0)	9	1,270
1999	19	100(0)	6	402
2000	22	259(0)	12	1,479
2001	20	193(0)	8	343
2002	23	184(2)	9	1,347
2003	19	108(0)	5	254
2004	22	189(0)	9	393
2005	21	185(1)	10	1,495
2006	25	177(0)	8	289
2007	28	220(0)	14	1,910
2008	25	144(0)	10	400
2009	28	123(0)	12	910
2010	22	182(0)	10	128
2011	18	82(0)	4	69
2012	17	53(0)	3	80
2013	18	106(0)	3	78
2014	15	83(0)	2	33
2015	17	101(0)	1	2
2016	16	46(0)	2	46

Note:

Parenthesized figures refer to number of days where alert/warning(s) were issued and they are included in the Total numbers.

Source: Compiled from "Reports on photochemical air pollutants in 2016," Ministry of the Environment

6.37 Trends in number of days when photochemical oxidant alerts and warnings were issued by prefecture (1)

(Unit: Day)

	1972	1973	1974	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992
Miyagi		3								1											
Yamagata																					
Fukushima																					
Ibaraki	16	21	14	17	9	18	12	3	4		3	2	6	16	7	22	3	5	21	19	14
Tochigi		10	10	6	7	11	5	2	2			1	4	15	6	16	8	3	7	5	19
Gunma		1	4	11	1		3					1					3	3	12	2	9
Saitama	15	45	29	44	15	26	36	8	15	8	12	33	30	28	16	29	12	6	25	14	19
Chiba	21	28	26	33	21	7	14	11	13	8	8	20	16	17	8	21	4	6	17	20	19
Tokyo	33	45	26	41	17	21	22	12	13	14	17	24	35	19	9	15	7	7	23	15	14
Kanagawa	31	30	26	27	17	12	18	19	10	11	11	15	7	12	3	12	8	3	12	12	14
Niigata																					
Toyama							1														
Ishikawa								1													
Fukui							1												3		
Yamanashi								2		1						3	4	4	23	9	20
Nagano																					
Gifu													1								
Shizuoka		8	15	6	3	1	1	3	2		1	1	2	5	1	1	1		7	6	2
Aichi	5	8	2	6	3	2			1			2	2	6		2				2	1
Mie	4	6	7		3	1					1		1			5	8	1	10	1	4
Shiga		4	4	4	5	1	1	5	6		5	1		2		4	5	4	5	3	9
Kyoto	7	17	17	11	6	9	5	1	5	3	3	5	4	5	3	3	5	2	6		7
Osaka	18	26	27	23	25	25	16	12	10	12	8	8	9	19	16	21	8	10	27	8	11
Hyogo	19	23	19	11	3	4	2	1	1	1	1	5	7	13	3	5	1	2	7	4	1
Nara	1	6	3	9	3	3	3		1			1				1	2		2	6	1
Wakayama	1	1	1													1			1		
Tottori																					
Shimane																					
Okayama	3	14	16	5	1	5	8	1	1		2	7	8	8	2	3	2	1	8		
Hiroshima		9	18	4	1	6	9	1	1		1	3	2	3	6	3	7	3	14	1	
Yamaguchi			5	1	2	5	3							2							
Tokushima			2	2	3	3	1							1	2				1		
Kagawa		1	4	1			6					2	1		2			1			
Ehime	2	22	13	1	4	7	1	2	1										3		
Kochi																					
Fukuoka																			4		
Saga																					
Nagasaki																					
Kumamoto																					
Oita																					
Kagoshima																					
Nationwide	176	328	288	266	150	167	169	84	86	59	73	131	135	171	85	168	86	63	242	121	164

6.37 Trends in number of days when photochemical oxidant alerts and warnings were issued by prefecture (2)

(Unit: Day)

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Miyagi					1			1																
Yamagata																	1							
Fukushima								3		1		2	1	1			3	1						1
Ibaraki	7	14	16	10	9	5	11	23	12	13	14	18	13	10	15	5	6	14	2	3	5	9	2	
Tochigi	2	10	2	6	4	4	9	21	15	11	8	7	14	8	16	5	7	16	11	2	4	5	2	3
Gunma	8	18	16	18	8	6	4	16	6	15	2	15	10	5	8	11	6	12	10	4	6	10	9	2
Saitama	4	19	13	10	16	12	18	40	30	21	19	23	26	16	32	18	14	25	17	7	13	13	16	1
Chiba	6	14	22	6	13	8	9	18	23	21	11	28	28	11	17	12	3	15	11	8	14	12	15	2
Tokyo	5	12	19	6	11	11	5	23	23	19	8	18	22	17	17	19	7	20	9	4	17	9	14	5
Kanagawa	9	15	13	7	4	10	4	10	13	11	6	16	7	14	20	11	4	10	5	5	16	9	10	6
Niigata															1									
Toyama			1							1		2			1									
Ishikawa																								
Fukui										1														
Yamanashi	7	8	5	4	2	7	6	14	13	12	5	5	9	12	15	4	3	11	2	2	3	6	1	1
Nagano																1								
Gifu									4	3		3	1	4	2	4	3			1				1
Shizuoka	3	8	2	3	4	6	2	9	6	4	1	5		9	7	2	2	3	1	1	2	1		1
Aichi		1				1					1		1	2	5	9	9	1	1	2	1		1	
Mie		9	2	1	1	2	1	9	4			1	2	2				2		1	1			
Shiga	1		1			1	2	3	6	4	2	2	7	6	5	2	6	4	1		3			1
Kyoto		1		1	1	3	1	3	1	5		3	7	7	10	6	4	11	1	2	3	1	2	
Osaka	11	15	8	10	3	25	11	23	20	11	14	10	10	17	11	7	13	12	4	4	7	3	11	7
Hyogo	4	13	3	4	2	4	7	17	5	8	7	6	9	8	4	6	5	2		1	2	2	2	1
Nara	1		3			1		8	2	5	2	5	7	3		1	1	2	1			1	2	
Wakayama		1	1	1	1	1		2	1	1				1	1	1					1			
Tottori																								
Shimane																								
Okayama	2	6	6	3	4	4	2	1	2	3	1		1	8	6	6	4	9	3	5	7	1	9	7
Hiroshima		9	3	6	4	15	3	8	5	9	4	13	8	9	6	5	6	7	1		1		3	6
Yamaguchi						2	1	5		4	1	3	1	2	3	4	1							
Tokushima			3	2	3	6	3	2	2	1	1	3	1	3	2	1								
Kagawa		1													1								1	1
Ehime	1	1			3	1	1				1	1			3	1	3	3						
Kochi																								
Fukuoka				1	1										4	2	2			1				1
Saga																1	2	1			1			
Nagasaki														1	3		2	1	1					
Kumamoto														1	4		2							
Oita															1		3							
Kagoshima																	1							
Nationwide	71	175	139	99	95	135	100	259	193	184	108	189	185	177	220	144	123	182	81	53	106	83	101	46

Source: Compiled from "Report on photochemical air pollutants in 2016," Ministry of the Environment

6.38 Changes in the number of specified facilities under the Noise Regulation Law

(Unit: Facilities)

	Metalworking machinery	Air compressor etc.	Crusher for soil and stones, etc.	Loom	Machinery for manufacturing construction materials	Grain mill	Wood processing machinery	Paper- making machinery	Printing press	Injection molding machinery for plastics	Molding machinery	Total
FY1987	247,914	396,212	22,625	476,521	8,943	3,783	69,691	2,115	80,803	46,291	8,265	1,363,163
1988	250,700	408,377	22,774	480,189	5,631	3,735	69,966	2,100	81,419	47,267	8,213	1,380,371
1989	254,680	421,494	22,981	477,278	5,741	3,662	70,127	2,090	82,249	48,327	8,259	1,396,888
1990	259,025	434,787	23,268	471,711	5,815	3,829	69,773	2,162	82,547	49,629	8,189	1,410,735
1991	259,719	450,215	23,648	472,173	5,950	3,662	69,887	2,118	82,924	50,581	8,207	1,429,084
1992	261,136	463,494	24,117	468,229	5,914	3,687	69,967	2,166	82,839	51,392	8,034	1,440,975
1993	260,226	476,886	24,637	466,376	5,933	3,698	69,909	2,178	82,320	51,236	7,920	1,451,319
1994	267,836	490,410	24,389	459,363	6,091	3,748	69,863	2,142	81,924	52,153	7,914	1,465,833
1995	265,720	500,969	24,523	448,120	5,977	3,794	69,486	2,127	81,495	52,810	7,880	1,462,901
1996	266,442	513,239	24,813	446,420	5,903	3,670	68,210	2,341	80,629	53,305	7,879	1,472,851
1997	268,942	528,014	25,136	432,316	5,981	3,601	68,893	2,205	80,583	55,274	7,721	1,478,666
1998	269,491	540,393	25,559	425,576	5,879	3,659	68,687	2,187	80,234	56,309	7,632	1,485,606
1999	275,300	555,606	25,647	416,530	5,732	3,625	68,911	2,357	80,363	58,754	7,707	1,500,532
2000	273,276	560,981	25,517	403,879	5,570	3,735	67,154	2,242	79,845	59,029	7,879	1,489,107
2001	276,714	581,444	25,602	418,510	5,609	3,775	67,003	2,277	79,879	59,974	8,402	1,529,189
2002	277,411	595,537	25,748	415,697	5,569	3,685	66,863	2,275	80,158	60,682	8,562	1,542,187
2003	277,208	595,044	25,616	395,535	5,492	3,686	66,293	2,242	78,030	61,595	9,714	1,520,455
2004	278,517	608,009	25,812	381,437	6,236	3,488	64,447	2,145	76,127	61,400	7,688	1,515,306
2005	275,093	609,160	25,619	360,885	5,375	3,354	62,721	2,100	74,078	59,502	8,031	1,485,918
2006	283,435	637,174	26,324	361,632	5,362	3,587	63,442	2,181	74,871	64,383	8,408	1,530,799
2007	281,965	645,335	26,002	362,633	5,296	3,578	62,822	2,036	73,437	64,853	9,127	1,537,084
2008	278,164	648,985	25,974	342,536	5,176	3,645	61,820	2,214	72,718	63,774	7,749	1,512,755
2009	282,405	667,918	26,572	337,107	5,119	3,515	62,830	2,140	72,498	66,333	9,111	1,535,548
2010	282,971	678,990	26,848	340,650	5,063	3,476	61,336	2,135	71,949	66,609	9,132	1,549,159
2011	276,426	671,628	25,522	328,243	4,954	3,457	59,942	2,127	70,229	65,989	7,832	1,516,349
2012	271,430	667,704	24,908	324,014	4,680	3,471	57,442	2,082	69,112	64,456	7,509	1,496,808
2013	276,356	680,531	25,470	320,026	4,835	3,470	58,258	2,457	67,708	63,831	6,711	1,509,653
2014	276,982	688,441	25,487	319,737	4,776	3,535	58,331	2,048	67,427	64,407	7,349	1,518,520
2015	267,995	678,672	24,788	289,506	4,580	3,414	57,173	2,028	66,640	62,379	6,851	1,464,026

Source: Compiled from "Survey of the Implementation of Noise Regulation Law," Ministry of the Environment

6.39 Changes in numbers of specified facilities under Vibration Regulation Law

(Unit: Facility)

	Metalworking machinery	Air compressor	Crusher for soil and stones, etc.	Loom	Concrete block machinery	Wood processing machinery	Printing press	Mixing Mill	Injection molding machinery for plastic	Molding machinery	Total
FY1987	275,863	91,934	15,799	339,341	11,624	4,072	36,887	3,805	40,618	5,142	825,085
1988	272,331	95,488	16,594	350,277	4,926	3,439	34,412	3,673	42,558	5,140	828,838
1989	279,502	97,133	16,330	350,926	5,079	3,446	35,068	3,721	43,656	5,221	840,082
1990	283,170	100,987	16,744	345,887	5,233	3,448	35,602	3,842	45,030	5,368	845,311
1991	285,552	104,694	17,252	345,162	5,209	3,580	35,999	3,939	46,234	5,592	853,213
1992	283,545	107,837	17,780	344,617	4,886	3,784	36,253	3,922	46,583	5,442	854,649
1993	285,844	110,796	18,062	342,775	2,537	3,804	35,983	3,917	47,035	5,511	856,264
1994	292,432	117,936	18,280	330,722	2,545	4,153	37,340	4,019	48,518	5,806	861,751
1995	287,691	128,592	18,316	318,499	2,533	4,039	37,268	3,909	48,299	5,488	854,634
1996	289,073	123,816	18,541	320,379	2,484	5,225	36,956	4,028	49,106	6,038	855,646
1997	289,695	129,562	18,940	318,131	2,477	4,136	37,286	3,892	50,893	6,041	861,053
1998	290,328	134,908	18,997	313,169	2,212	4,318	37,235	3,877	51,534	6,231	862,809
1999	294,777	142,042	19,554	307,210	2,248	4,389	37,695	3,779	54,501	6,338	872,533
2000	292,952	147,726	19,443	288,374	2,185	4,278	38,176	3,845	55,355	6,202	858,536
2001	295,097	154,696	21,516	296,072	2,926	4,345	38,212	3,912	55,935	7,015	879,726
2002	290,420	158,521	21,442	291,453	2,964	4,285	38,093	3,737	56,362	6,461	873,738
2003	290,783	164,838	19,064	291,204	3,004	4,587	37,750	3,854	57,116	6,108	878,308
2004	282,865	166,325	19,173	269,315	2,884	4,636	37,475	3,735	57,609	5,806	849,823
2005	275,787	169,757	19,286	265,111	2,887	4,621	37,948	3,709	56,212	5,847	841,165
2006	282,472	178,316	19,703	272,698	2,146	4,588	38,596	3,722	59,173	5,883	867,297
2007	285,122	186,778	20,221	263,444	2,171	4,765	38,405	3,796	61,535	6,020	872,257
2008	279,500	188,095	20,185	257,911	2,126	4,527	38,127	3,806	60,168	5,646	860,091
2009	276,659	189,723	20,130	247,633	2,056	4,801	37,627	3,727	60,519	5,729	848,609
2010	277,826	193,192	20,214	248,851	2,086	4,643	37,515	3,882	60,514	5,945	854,668
2011	276,569	198,076	20,807	250,422	2,104	4,624	37,146	3,814	60,993	6,626	861,181
2012	271,774	199,598	20,199	248,689	2,358	4,771	36,576	3,966	60,500	6,389	854,820
2013	271,318	205,663	20,436	245,155	2,332	4,469	36,509	3,607	60,253	6,290	856,032
2014	269,181	205,628	19,739	244,969	2,283	4,347	36,937	3,906	60,248	6,378	853,616
2015	261,426	201,168	19,700	233,585	2,411	4,276	36,325	3,741	58,614	5,887	827,133

Source: Compiled from "Survey of the Implementation of Vibration Regulation Law," Ministry of the Environment

6.40 Changes in number of specified facilities under Noise Regulation Law by prefecture

(Unit: Facility)

	FY2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Hokkaido	24,431	24,180	24,450	24,029	23,716	23,538	22,390	22,274	21,595	22,149
Aomori	3,046	3,031	3,071	3,154	3,124	3,144	3,179	3,265	3,310	3,165
Iwate	5,923	5,971	5,796	5,247	5,706	5,206	5,173	5,306	5,347	5,330
Miyagi	11,504	12,319	12,130	12,296	12,182	12,346	12,426	12,729	13,189	12,738
Akita	3,890	3,939	3,940	3,786	3,716	3,721	3,771	2,987	3,732	3,804
Yamagata	8,578	8,624	6,154	6,195	8,674	7,179	8,653	8,650	8,705	7,713
Fukushima	9,706	9,133	10,245	10,379	7,245	9,162	9,124	10,777	11,167	11,300
Ibaraki	25,859	25,050	25,054	25,152	24,786	23,078	21,291	22,793	22,796	23,107
Tochigi	14,651	15,291	15,373	15,290	15,126	13,381	13,451	12,725	12,780	12,214
Gunma	34,556	35,527	36,306	34,828	35,415	35,477	34,143	36,367	36,872	36,895
Saitama	58,264	58,968	58,937	58,813	58,318	58,468	58,742	60,239	65,505	66,785
Chiba	51,299	52,068	54,242	50,775	55,514	55,353	55,108	53,966	56,370	52,793
Tokyo	143,389	137,442	134,030	139,134	139,348	140,596	136,963	134,783	137,616	136,733
Kanagawa	59,416	59,887	59,742	60,389	59,743	59,833	60,751	57,562	58,180	60,606
Niigata	31,643	32,113	31,498	31,425	31,644	31,731	32,075	32,296	32,057	32,031
Toyama	16,477	16,892	17,356	17,837	17,679	17,757	18,713	18,772	18,773	19,068
Ishikawa	37,804	38,024	38,131	38,161	38,268	37,850	38,211	38,313	37,718	36,547
Fukui	36,090	36,088	36,138	35,780	35,808	35,778	35,888	35,858	35,877	35,899
Yamanashi	8,558	8,597	8,319	7,901	8,716	9,200	9,560	9,581	9,751	9,867
Nagano	16,525	16,927	14,068	17,849	18,214	18,056	18,033	18,197	18,206	17,193
Gifu	40,866	41,681	42,270	42,625	42,988	43,283	43,865	44,389	44,853	45,219
Shizuoka	99,190	100,083	95,014	94,759	95,697	96,215	97,001	95,161	93,696	99,677
Aichi	213,372	211,269	205,325	200,970	206,436	198,832	187,452	194,566	192,561	185,688
Mie	13,249	16,385	14,060	9,421	14,255	14,563	14,552	14,734	14,881	14,913
Shiga	36,844	38,136	32,706	61,617	59,292	28,676	26,874	29,015	28,975	29,016
Kyoto	39,883	39,261	38,138	38,300	38,202	38,584	37,990	37,994	37,863	37,626
Osaka	169,308	169,249	165,748	160,926	158,783	165,159	165,620	165,729	165,312	132,012
Hyogo	77,510	78,650	79,767	80,716	81,226	78,607	78,730	79,206	79,602	77,907
Nara	11,067	11,302	11,418	11,609	11,767	11,766	11,883	12,029	12,010	11,954
Wakayama	6,443	6,161	6,278	6,319	6,345	6,385	6,356	6,426	5,807	5,844
Tottori	2,246	2,258	2,239	2,219	1,864	897	1,876	1,903	2,004	2,026
Shimane	2,223	2,238	2,254	2,725	2,726	2,725	2,565	1,799	1,366	1,335
Okayama	29,213	29,594	29,857	30,005	30,071	30,312	30,275	27,485	26,547	23,180
Hiroshima	37,003	38,038	37,248	37,615	37,734	37,866	37,641	38,355	38,653	38,889
Yamaguchi	9,389	9,348	9,319	9,307	9,269	9,552	9,642	9,767	9,873	9,892
Tokushima	5,229	5,291	5,247	5,390	5,444	5,533	5,251	5,833	5,848	6,032
Kagawa	10,516	10,594	10,827	11,304	11,684	12,071	11,922	12,280	12,502	10,579
Ehime	18,129	18,355	18,569	18,897	19,397	19,542	19,510	18,710	18,940	13,792
Kochi	2,195	2,207	2,332	2,351	2,349	2,133	2,338	2,316	2,174	2,161
Fukuoka	42,586	43,012	43,716	43,673	43,858	44,503	43,535	45,651	45,682	45,164
Saga	10,562	11,029	11,302	11,073	11,385	11,919	11,495	11,832	11,879	10,156
Nagasaki	5,490	5,120	5,450	5,343	5,392	4,850	4,862	4,848	4,820	4,902
Kumamoto	17,555	17,808	18,029	18,517	18,183	19,150	15,024	18,830	19,445	19,165
Oita	12,177	12,500	12,704	13,372	13,423	13,601	13,807	13,996	14,133	13,860
Miyazaki	5,774	5,812	6,220	6,053	6,222	6,301	6,375	6,510	6,518	6,677
Kagoshima	8,100	8,510	8,617	8,651	8,724	8,892	9,077	9,016	9,146	8,178
Okinawa	3,071	3,122	3,121	3,371	3,501	3,578	3,645	3,833	3,884	2,245
Nationwide	1,530,799	1,537,084	1,512,755	1,535,548	1,549,159	1,516,349	1,496,808	1,509,653	1,518,520	1,464,026

Source: "Survey on the Implementation of Noise Regulation Law," Ministry of the Environment

6.41 Changes in number of specified facilities under Vibration Regulation Law by prefecture

(Unit: Facility)

	FY2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Hokkaido	7,704	7,766	7,851	7,675	7,456	7,388	6,907	6,965	6,687	6,827
Aomori	1,225	1,278	1,301	1,336	1,337	1,330	1,341	1,356	1,386	1,237
Iwate	2,327	2,324	2,187	1,910	2,097	2,039	1,897	2,025	1,567	1,847
Miyagi	4,915	5,597	5,466	5,763	5,719	5,778	5,808	5,939	6,087	5,060
Akita	1,325	1,358	1,381	1,346	1,273	1,279	1,292	1,236	1,295	1,328
Yamagata	5,636	5,608	5,583	5,678	5,695	4,925	5,735	5,758	5,828	5,214
Fukushima	4,640	5,675	5,726	5,532	4,117	4,788	4,852	5,347	5,509	5,550
Ibaraki	8,688	9,073	9,109	9,241	9,317	9,192	9,423	8,820	9,192	9,432
Tochigi	10,192	10,482	10,455	10,221	10,307	8,570	8,592	8,239	6,070	5,812
Gunma	25,969	26,571	25,359	24,542	24,695	25,154	24,892	25,679	25,751	25,943
Saitama	35,808	36,376	35,534	34,808	34,829	34,752	34,787	36,548	39,539	40,751
Chiba	15,151	15,366	15,983	15,471	16,645	16,434	15,870	16,074	16,504	14,543
Tokyo	64,702	62,782	61,947	61,147	59,964	60,734	59,723	58,696	54,064	52,634
Kanagawa	35,211	35,196	34,201	34,598	33,375	33,578	34,471	30,852	33,006	32,399
Niigata	21,719	21,971	21,622	21,575	21,699	21,810	21,951	22,003	22,163	20,782
Toyama	8,312	8,450	8,460	8,593	8,611	8,608	9,055	8,809	9,029	9,446
Ishikawa	28,115	28,256	28,329	28,321	28,388	28,435	28,445	28,496	28,141	27,178
Fukui	21,752	21,874	21,899	21,776	21,830	21,819	21,823	21,861	21,880	21,880
Yamanashi	6,667	6,747	6,606	6,102	6,763	7,043	7,275	7,278	7,459	7,287
Nagano	10,132	10,374	8,610	10,230	10,344	10,266	10,357	10,468	10,438	10,526
Gifu	30,792	33,733	34,304	34,568	34,815	35,113	35,585	36,046	36,559	36,859
Shizuoka	67,731	68,562	64,756	61,698	65,611	65,669	66,130	60,302	65,032	64,519
Aichi	154,634	143,492	149,429	146,711	151,881	150,453	143,122	152,497	146,691	141,730
Mie	8,557	10,305	8,878	6,400	8,874	8,990	9,079	9,103	9,025	9,161
Shiga	20,643	24,619	19,528	16,022	13,563	17,729	16,354	17,062	17,668	17,068
Kyoto	21,921	21,510	20,985	21,191	21,396	21,553	21,047	20,210	21,058	20,968
Osaka	102,933	104,449	100,275	98,668	95,698	97,556	97,812	97,368	97,078	91,559
Hyogo	41,062	41,664	42,276	42,533	42,657	42,726	42,937	42,727	43,127	43,018
Nara	7,397	7,609	7,703	7,819	7,966	7,983	8,114	8,240	8,090	7,969
Wakayama	2,274	2,528	2,823	2,929	3,035	3,221	3,290	3,319	3,152	3,232
Tottori	1,087	1,096	1,080	1,077	894	525	904	905	910	916
Shimane	1,036	1,049	1,157	1,395	1,395	1,443	2,347	758	565	539
Okayama	18,985	19,286	19,464	19,421	19,461	19,518	19,474	17,503	16,113	15,063
Hiroshima	14,607	14,870	14,466	14,963	15,068	14,806	14,788	14,732	14,767	14,822
Yamaguchi	4,379	4,453	4,439	4,392	4,310	4,322	4,345	4,361	4,546	4,479
Tokushima	2,404	2,388	2,489	2,501	2,286	2,342	2,127	2,559	2,561	2,375
Kagawa	3,897	3,920	3,931	4,018	3,980	4,021	4,381	4,665	4,659	3,660
Ehime	7,782	8,069	7,836	7,944	8,001	7,915	8,067	7,981	8,086	3,464
Kochi	1,057	1,076	1,080	1,147	1,164	1,194	1,195	1,182	1,175	1,210
Fukuoka	14,788	14,970	15,191	15,448	15,595	15,604	15,420	16,075	15,853	15,361
Saga	2,605	3,085	3,227	3,096	3,502	4,450	4,273	4,455	4,473	4,153
Nagasaki	1,637	1,334	1,597	1,448	1,569	1,614	1,613	1,643	1,659	1,668
Kumamoto	4,345	4,339	4,477	6,045	5,970	6,601	5,724	6,760	7,070	6,354
Oita	4,675	4,791	4,884	5,054	5,104	5,206	5,262	5,382	5,162	5,191
Miyazaki	1,608	1,595	1,785	1,754	1,822	1,951	1,963	1,970	1,987	2,024
Kagoshima	3,379	3,453	3,510	3,541	3,596	3,691	3,861	3,782	3,816	3,496
Okinawa	892	888	912	961	994	1,063	1,110	1,131	1,139	599
Nationwide	867,297	872,257	860,091	848,609	854,668	861,181	854,820	855,167	853,616	827,133

Source: "Survey of the Implementation of Vibration Regulation Law," Ministry of the Environment

6.42 Trends in number of complaints on noise, vibration and odor

(Unit: Case)

	Noise	Vibration	Odor
FY1977	21,038	3,823	16,676
1978	22,886	4,033	16,742
1979	22,686	3,914	15,499
1980	22,571	3,766	13,439
1981	22,103	3,737	13,541
1982	22,322	3,067	13,395
1983	21,781	3,103	12,741
1984	22,894	3,131	13,529
1985	20,171	3,118	13,070
1986	19,937	3,058	12,705
1987	22,120	3,109	12,488
1988	20,746	3,279	11,932
1989	19,479	2,921	11,717
1990	19,018	2,795	11,666
1991	16,800	2,207	10,616
1992	15,539	2,193	10,753
1993	15,094	2,083	9,972
1994	15,986	2,547	11,946
1995	14,359	2,742	11,276
1996	15,059	2,662	11,942
1997	14,011	2,257	14,554
1998	12,685	2,124	20,092
1999	12,452	2,084	18,732
2000	14,066	2,264	21,205
2001	14,547	2,480	23,776
2002	15,461	2,614	23,519
2003	15,928	2,608	24,587
2004	16,215	3,289	19,657
2005	16,470	3,599	19,114
2006	17,192	3,615	18,805
2007	16,434	3,384	17,533
2008	15,558	2,941	16,245
2009	15,101	2,540	15,937
2010	15,849	2,882	15,194
2011	15,944	3,222	14,569
2012	16,518	3,254	14,411
2013	16,717	3,351	13,792
2014	17,110	3,180	13,136
2015	16,490	3,011	12,959

Note:

Surveyed by the Environmental Dispute Coordination from FY 1970 to FY 1974.

Source: Compiled from "Survey on the Implementation of Noise Regulation Law," "Survey on the Implementation of Vibration Regulation Law," "Survey on the Implementation of Offensive Odor Control Law," Ministry of the Environment

6.43 Achievement of environmental standards for noises caused by automobiles, airplanes and Shinkansen

Automobile

	Number of local governments conducted evaluations	Number of residences evaluated (Thousand)	Number of residence where standard values were achieved and rate							
			Below standard values in both daytime and night		Below standard values only at night		Below standard values only in daytime		Exceed standard values in both daytime and night	
			(Thousand)	(%)	(Thousand)	(%)	(Thousand)	(%)	(Thousand)	(%)
FY2001	78	1,487	1,154	77.6	122	8.2	13	0.9	198	13.3
2002	102	1,934	1,549	80.1	127	6.6	24	1.2	234	12.1
2003	141	2,395	1,933	80.7	177	7.4	22	0.9	293	11.0
2004	165	2,663	2,167	81.4	194	7.3	22	0.8	280	10.5
2005	165	2,914	2,458	84.4	181	6.2	22	0.7	253	8.7
2006	172	3,292	2,812	85.4	196	6.0	26	0.8	258	7.8
2007	176	3,861	3,398	88.0	211	5.5	28	0.7	225	5.8
2008	178	4,632	4,158	89.8	218	4.7	28	0.6	229	4.9
2009	179	5,072	4,595	90.6	221	4.4	25	0.5	231	4.6
2010	179	5,759	5,260	91.3	222	3.9	28	0.5	248	4.3
2011	179	6,116	5,612	91.8	224	3.7	29	0.5	252	4.1
2012	188	6,645	6,151	92.6	228	3.4	28	0.4	238	3.6
2013	828	7,209	6,695	92.9	231	3.2	30	0.4	253	3.5
2014	835	7,794	7,265	93.2	241	3.1	32	0.4	256	3.3
2015	837	8,185	7,663	93.6	242	3.0	33	0.4	248	3.0
2016	841	8,618	8,092	93.9	244	2.8	35	0.4	248	2.9

Notes:

- Reporting by prefectures and so forth was started in FY 2000 as continuous monitoring of automobile noises under Noise Regulation Law started.
- Residences and the like within 50m from the both sides of the roads facing major highways were evaluated.
- Needs taking yearly differences in residences subject to evaluation into consideration.
- Total figures may not fitted due to rounding.

Source: Compiled from "Survey on the road traffic noise," Ministry of the Environment

Airplanes

	Number of measurement points	Number of measurement points that achieved target
FY2001	592	441
2002	563	402
2003	554	403
2004	581	417
2005	590	433
2006	584	418
2007	577	426
2008	576	438
2009	568	423
2010	582	454
2011	563	435
2012	568	441
2013	549	420
2014	542	412
2015	574	458

Notes:

- The results of the measurements in each year by the relevant local governments among areas where such prefectural governments specified patterns, were tabulated.
- Needs to take into consideration that measurement points each year may not be the same.
- Because of the adoption of new evaluation targets based on the partial revision of Environmental Standards regarding airplane noise, the results in 2013 and onward cannot be simply compared with those in 2012 or before.

Source: Compiled from materials by Ministry of the Environment

Shinkansen

	Number of measurement points	Number of measurement points that achieved target
FY2001	292	114
2002	296	123
2003	314	118
2004	331	129
2005	374	144
2006	373	153
2007	378	160
2008	346	149
2009	412	195
2010	424	219
2011	504	299
2012	482	290
2013	496	289
2014	479	248
2015	608	325

Notes:

- The results of the measurements in each year by relevant local governments among areas where such prefectural governments specified patterns, were tabulated.
- Needs to take into consideration that measurement points each year may not be the same.
- Tabulation was made from the results measured at a location of approximately 25 meters from the track-center on the side of a measuring point (a standard measuring point).
- In "countermeasures against 75dB" target sections, the noise level may exceed Environmental standards after the implementation of countermeasures against 75dB since the countermeasures only aims at lowering the noise level below 75dB for the time being.

※ As part of countermeasures to conform with Environmental Standards, concerned governmental agencies and enterprises have been promoting the "countermeasures against 75dB(phon)" since FY1985 for reduction of noise focusing on the "target sections", which means densely populated residential areas along the Shinkansen railroads where the noise level exceeds 75 phon.

Source: Compiled from materials by Ministry of the Environment