

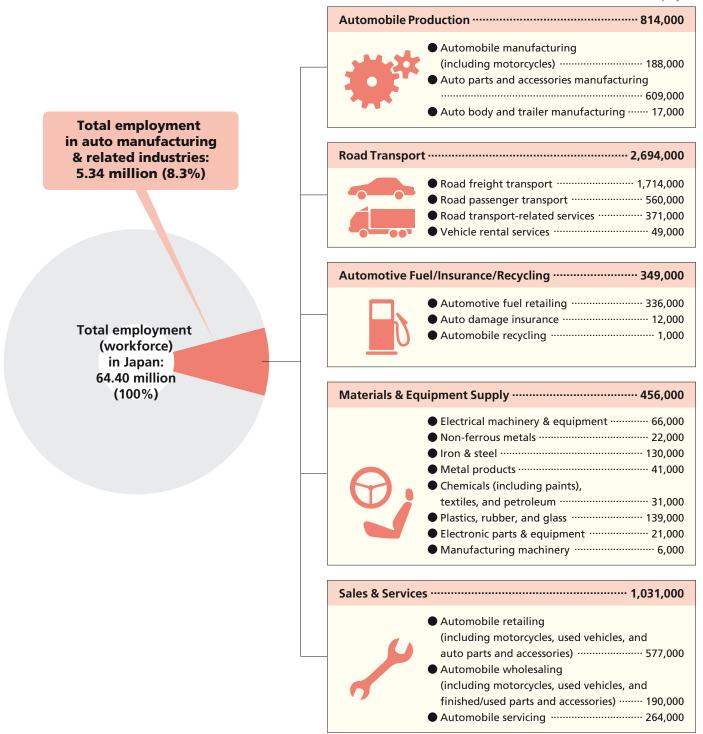
JAPAN AUTOMOBILE MANUFACTURERS ASSOCIATION, INC.

A Vast Range of Related Industries

Automobiles are the focus of an extremely wide range of industrial and related activity, from materials supply and vehicle production to sales, servicing, freight shipping and other auto-centered operations. Auto-related employment in Japan at present totals 5.34 million people.

EMPLOYMENT IN THE AUTOMOBILE MANUFACTURING AND RELATED INDUSTRIES

Number of employees



Note: Figures are rounded off to the nearest thousand.

Automobile Manufacturing Is an Integrated Industry

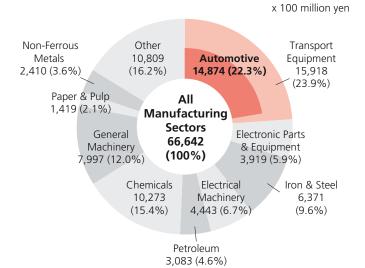
An automobile typically is composed of 20,000 to 30,000 parts, all of which even the largest vehicle manufacturers cannot produce themselves. Automakers therefore either outsource production or purchase finished products (such as tires, batteries, air conditioners and audio systems). Finished products purchased by the automakers include products manufactured abroad, and the volume of imported components increases yearly. Automobile manufacturing is thus an integrated industry because it relies on many supporting industries to produce the great diversity of materials and components it uses. Trends in the automobile industry, which makes huge investments in equipment and research activities, are considered a barometer of the economy.

PRINCIPAL MATERIALS AND COMPONENTS USED IN AUTOMOBILE MANUFACTURING

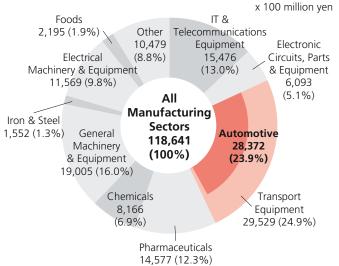
Cast iron	Engine parts, e.g. cylinder blocks
Common steel	Chassis, frames, wheel parts
Special steel	Gears, axle shafts, crankshafts, fuel injection equipment
Copper	Electricals, radiators, cables
Lead, tin, zinc	Engine metals, solder, body varnish, batteries
Aluminum	Engine parts (e.g. pistons, cylinder heads), wheels, chassis
Noble metals	Emissions aftertreatment parts
Other non-ferrous metals	Magnets, plating
Synthetic resin	Steering wheels, bumpers, radiator grilles, body components
Glass	Window glass, mirrors, headlamps
Rubber	Tires, sealing parts, vibration control parts
Ceramics	Plugs, electronic parts, sensors, emissions aftertreatment parts
Textiles	Seats, linings, seatbelts
Leather	Seats, packing
Paper	Filters
Wood	Load-carrying platforms, interior equipment
Paints	Ornamental and rustproof paints
Chemicals	Antifreeze, engine oil, transmission oil, brake oil
Animal and vegetable oils	For casting
Fats and oils	For lubrication, heat treatment, etc.

Springs, dampers							
Turbochargers							
Bearings							
Machined parts, e.g. pur	nps						
Tires and tubes							
Batteries							
Window glass							
Onboard tools, e.g. jacks	5						
Supplies, e.g. extinguish	ers, tire chains						
Electronic parts	Sensors, ECUs, actuators						
Lights, cables, optical fib	ers						
Air conditioners, air clea	ners						
Starters, alternators, ger	nerators, inverters, meters						
Audio systems, phones,	navigation systems						
Safety equipment, e.g. a traction control	nti-lock brakes, airbags,						
Coke	For casting						
Petroleum, electricity, natural gas	Fuel, heat treatment, paint drying, power generation						

INVESTMENTS IN EQUIPMENT OF MAJOR MANUFACTURING SECTORS (PROJECTED, FY 2016)



RESEARCH EXPENDITURES OF MAJOR MANUFACTURING SECTORS (FY 2015)

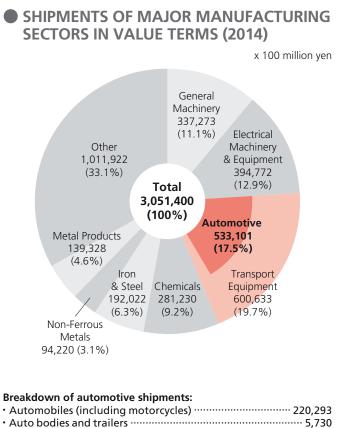


Note: Japan's fiscal year (FY) starts on April 1 and ends on March 31 of the following year. Source: Survey on Planned Capital Spending, Development Bank of Japan

Source: Survey on Research Activities in Science and Technology, Ministry of Internal Affairs and Communications

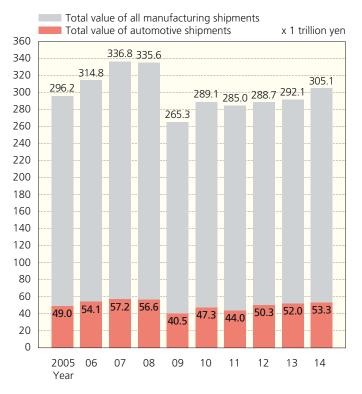
Automobile Manufacturing Is a Core Industry

The automotive industry is one of the Japanese economy's core industrial sectors. In 2014 automotive shipments accounted for 17.5% of the total value of Japan's manufacturing shipments, and 40.0% of the value of the machinery industries' combined shipments. Automotive shipments (both domestic and export shipments, including motorcycles, auto parts, etc.) in value terms totalled 53.3 trillion yen in 2014, up 2.6% from the previous year.



Automotive parts and accessories ------ 307,078

COMPARISON OF VALUE OF AUTOMOTIVE SHIPMENTS TO TOTAL VALUE OF ALL MANUFACTURING SHIPMENTS



SHIPMENTS OF MAJOR MANUFACTURING SECTORS IN VALUE TERMS

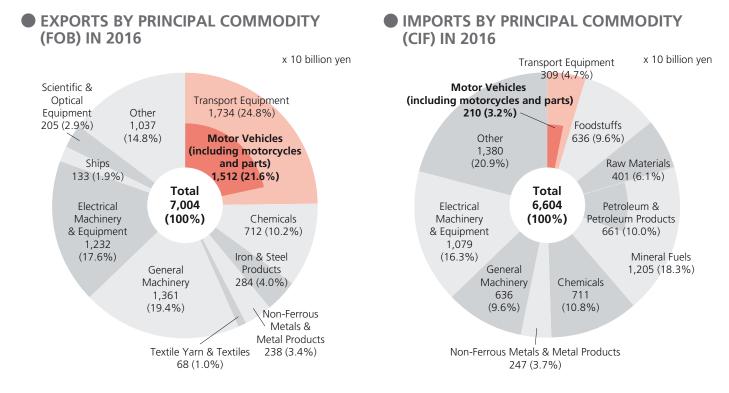
x 100 million yen

						Ma	chinery Ind	ustries				Automotive	e Shipments
Year	Chemicals	Iron & Steel	Non-Ferrous Metals	Metal Products	General Machinery	Electrical Machinery &	Transport I	Equipment	Subtotal	Other	Total	As % of Value of Machinery Shipments	As % of Total Value of Manufacturing
						Equipment		Automotive				Jinpinents	Shipments
1970	55,402	65,648	30,547	37,277	68,028	73,305	72,758	54,673	223,008	287,383	690,348	24.5	7.9
1975	104,381	113,063	39,087	65,731	106,112	108,213	147,935	105,241	379,551	589,807	1,274,329	27.7	8.3
1980	179,787	178,956	81,186	106,465	175,998	222,346	249,536	212,346	682,457	952,724	2,146,998	31.1	9.9
1985	205,524	177,543	63,836	130,944	241,904	408,422	361,793	276,927	1,055,932	1,063,240	2,653,206	26.2	10.4
1990	235,030	182,687	78,217	185,736	332,249	545,286	468,582	423,106	1,397,439	1,205,939	3,233,726	30.3	13.1
1995	233,625	140,727	64,964	176,465	298,844	548,309	442,145	395,613	1,330,364	1,155,277	3,060,356	29.7	12.9
2000	237,994	119,630	62,189	155,868	304,132	595,817	444,474	400,429	1,385,612	1,115,720	3,035,824	28.9	13.2
2005	250,271	168,964	67,116	140,159	312,108	495,083	539,999	489,548	1,385,037	988,717	2,962,417	35.3	16.5
2006	261,995	184,727	90,162	144,510	333,313	511,634	598,356	541,091	1,484,034	1,023,649	3,148,346	36.5	17.2
2007	282,939	211,917	107,705	151,889	362,734	553,265	639,100	571,848	1,597,840	1,058,017	3,367,566	35.8	17.0
2008	281,299	243,322	104,805	151,492	402,477	518,797	637,666	566,053	1,558,940	1,015,930	3,355,788	36.3	16.9
2009	242,757	159,884	69,400	124,267	289,320	400,593	471,866	404,915	1,161,779	894,503	2,652,590	34.9	15.3
2010	262,120	181,463	89,114	122,920	306,186	442,848	542,136	472,962	1,291,170	944,290	2,891,077	36.6	16.4
2011	263,512	186,656	90,225	121,277	322,495	403,789	505,870	439,592	1,232,154	955,863	2,849,688	35.7	15.4
2012	260,379	180,121	89,228	128,607	330,816	369,426	564,858	502,627	1,265,100	963,841	2,887,276	39.7	17.4
2013	274,092	179,053	88,059	130,606	320,911	368,283	582,032	519,710	1,271,226	977,885	2,920,921	40.9	17.8
2014	281,230	192,022	94,220	139,328	337,273	394,772	600,633	533,101	1,332,678	1,011,922	3,051,400	40.0	17.5

Notes: 1. Shipments from all manufacturing operations with four or more employees are included in this data. 2. Compilation of data on production in value terms was discontinued in 1996 and replaced by data on shipments in value terms. 3. Figures in value terms include domestic consumption tax revenue from shipments. 4. "Electrical Machinery & Equipment" includes IT-related electronic parts and equipment as of 2002. 5. All information here remains unchanged from the 2016 edition of this publication owing to the non-issuance of the *Census of Manufactures* in 2015. *Source* for all statistical data on this page: Census of Manufactures, Ministry of Economy, Trade and Industry

In Value Terms, Motor Vehicle Exports Total 15 Trillion Yen; Imports, 2 Trillion Yen

In 2016 Japan's gross exports declined 7.4% from the previous year, and imports shrank 15.8%. In value terms, automotive exports decreased 4.9% from 2015 to 15.1 trillion yen, and automotive imports dipped 1.1% year-on-year to 2.1 trillion yen.



AUTOMOTIVE EXPORTS IN VALUE TERMS (FOB)

x 100 million yen

x 100 million yen

	Motor \	/ehicles				Export	s Total
Year		Chg. (%)	Passenger Cars, Trucks, Buses	Auto Parts	Motorcycles & Motorcycle Parts		Chg. (%)
2007	185,267	114.5	143,170	33,555	8,543	839,314	111.5
2008	175,126	94.5	137,361	30,655	7,110	810,181	96.5
2009	93,679	53.5	66,933	23,089	3,657	541,706	66.9
2010	125,956	134.5	91,741	30,833	3,382	673,996	124.4
2011	115,417	91.6	82,042	29,972	3,403	655,465	97.3
2012	127,521	110.5	92,250	32,051	3,220	637,476	97.3
2013	142,411	111.7	104,125	34,762	3,524	697,742	109.5
2014	147,849	103.8	109,194	34,750	3,905	730,930	104.8
2015	158,912	107.5	120,463	34,830	3,619	756,139	103.4
2016	151,175	95.1	113,329	34,617	3,229	700,358	92.6

AUTOMOTIVE IMPORTS IN VALUE TERMS (CIF)

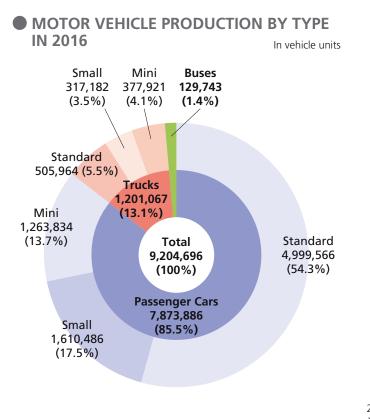
	Motor \	/ehicles				Import	s Total
Year		Chg. (%)	Passenger Cars, Trucks, Buses	Auto Parts	Motorcycles & Motorcycle Parts		Chg. (%)
2007	16,531	108.5	9,294	6,291	945	731,359	108.6
2008	15,138	91.6	7,499	6,662	978	789,548	108.0
2009	8,982	59.3	4,549	3,696	736	514,994	65.2
2010	11,518	128.2	5,958	4,879	682	607,650	118.0
2011	12,805	111.2	7,352	4,717	736	681,112	112.1
2012	15,506	121.1	9,082	5,549	875	706,886	103.8
2013	18,948	122.2	10,857	6,981	1,109	812,425	114.9
2014	20,925	110.4	11,623	8,148	1,154	859,091	105.7
2015	21,261	101.6	11,398	8,770	1,093	784,055	91.3
2016	21,023	98.9	11,781	8,329	913	660,420	84.2

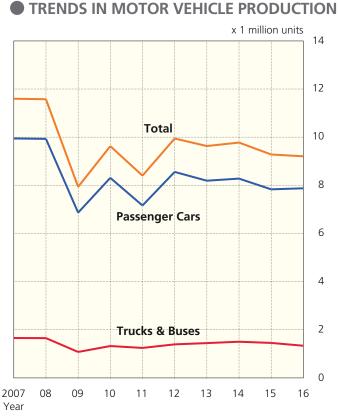
Notes: 1. "Passenger Cars, Trucks, Buses" includes chassis. 2. FOB: Free on board; CIF: Cost, insurance, and freight. 3. "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100).

Source for all statistical data on this page: The Summary Report on Trade of Japan, Japan Tariff Association

A Total of 9.2 Million Motor Vehicles Produced

In 2016 motor vehicle production in Japan totalled 9.20 million units, down 0.8% from the previous year. Passenger car production rose 0.6% to a total of 7.87 million units. Within that category, standard and small car production increased 5.4% and 3.5%, to 5.00 million and 1.61 million units respectively, whereas minicar production declined 17.4% to 1.26 million units. Meanwhile, truck and bus production showed a decrease from 2015, slipping 8.3% to 1.20 million units and 5.9% to 130,000 units, respectively.

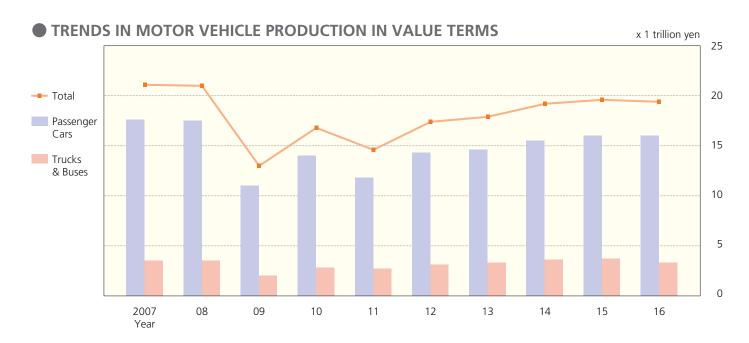




MOTOR VEHICLE PRODUCTION

			Passenger Cars				
Year	Standard	Small	Mini	Subtotal	Chg. (%)	Standard	Small
1970	51,619	2,377,639	749,450	3,178,708	121.7	258,100	1,253,861
1975	209,032	4,198,550	160,272	4,567,854	116.2	288,170	1,610,475
1980	403,338	6,438,847	195,923	7,038,108	114.0	885,198	2,113,311
1985	494,792	6,991,432	160,592	7,646,816	108.1	1,278,212	1,877,893
1990	1,750,783	7,361,224	835,965	9,947,972	109.9	1,249,525	1,262,943
1995	2,553,703	4,140,629	916,201	7,610,533	97.5	824,140	909,321
2000	3,376,447	3,699,893	1,283,094	8,359,434	103.2	649,180	483,282
2005	4,191,360	3,416,622	1,408,753	9,016,735	103.4	723,663	436,763
2007	5,864,354	2,638,842	1,441,441	9,944,637	101.9	718,901	365,532
2008	5,786,333	2,714,413	1,427,397	9,928,143	99.8	734,923	329,758
2009	3,459,589	2,145,279	1,257,293	6,862,161	69.1	371,686	215,139
2010	4,846,411	2,159,119	1,304,832	8,310,362	121.1	520,627	238,776
2011	4,180,361	1,861,279	1,116,885	7,158,525	86.1	512,260	234,586
2012	4,686,396	2,252,672	1,615,435	8,554,503	119.5	583,156	275,992
2013	4,618,014	1,888,759	1,682,550	8,189,323	95.7	580,012	300,635
2014	4,657,765	1,750,895	1,868,410	8,277,070	101.1	604,768	327,928
2015	4,744,471	1,555,548	1,530,703	7,830,722	94.6	586,645	330,814
2016	4,999,566	1,610,486	1,263,834	7,873,886	100.6	505,964	317,182

Notes: 1. Passenger cars and trucks are classified under Japan's Road Vehicles Act in three categories, based primarily on engine capacity: "standard" (over 2,000cc), "small" (661cc-vehicle and have been treated as components since 1988. 3. "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100).



MOTOR VEHICLE PRODUCTION IN VALUE TERMS

Veer		Passeng	er Cars				Trucks				Buses		Total
Year	Standard	Small	Mini	Subtotal	Standard	Small	Mini	Tractors	Subtotal	Large	Small	Subtotal	TOLAT
1985	895,041	7,049,323	85,925	8,030,289	1,793,000	1,519,934	679,498	46,745	4,039,177	103,053	101,007	204,060	12,273,526
1990	3,717,356	8,676,715	572,188	12,966,259	1,953,924	1,180,028	591,144	64,913	3,790,009	134,015	66,988	201,003	16,957,271
1995	5,147,637	4,869,427	790,303	10,807,367	1,619,428	849,511	510,579	124,764	3,104,282	107,647	89,441	197,088	14,108,737
2000	6,640,075	4,298,370	1,237,605	12,176,050	1,111,558	543,408	357,765	45,453	2,058,184	80,897	109,007	189,904	14,424,138
2005	9,352,545	4,178,641	1,169,871	14,701,057	1,916,692	588,224	357,615	104,567	2,967,098	127,605	163,069	290,674	17,958,829
2007	13,122,924	3,167,910	1,309,576	17,600,410	2,146,513	512,887	319,400	120,346	3,099,146	129,209	264,477	393,686	21,093,242
2008	13,006,119	3,207,109	1,293,624	17,506,852	2,110,682	463,435	312,374	136,277	3,022,768	136,115	313,594	449,709	20,979,329
2009	7,261,654	2,548,371	1,155,681	10,965,706	1,127,974	312,497	281,888	34,778	1,757,137	109,723	166,115	275,838	12,998,681
2010	10,239,303	2,609,861	1,207,423	14,056,587	1,684,489	358,081	323,800	75,944	2,442,314	118,300	211,359	329,659	16,828,560
2011	8,451,638	2,343,337	1,045,460	11,840,435	1,713,798	351,515	285,454	89,976	2,440,743	97,157	199,301	296,458	14,577,636
2012	9,683,441	3,091,067	1,486,926	14,261,434	1,954,449	422,502	302,836	106,209	2,785,996	120,992	237,199	358,191	17,405,621
2013	10,422,008	2,628,986	1,579,510	14,630,504	1,987,340	479,914	312,959	102,073	2,882,286	119,670	290,001	409,671	17,922,461
2014	11,110,107	2,636,872	1,795,440	15,542,419	2,189,242	546,377	313,522	118,091	3,167,232	124,114	318,410	442,524	19,152,175
2015	12,047,649	2,458,198	1,473,103	15,978,950	2,189,038	576,037	300,368	131,002	3,196,445	139,614	328,498	468,112	19,643,507
2016	12,321,649	2,438,906	1,280,853	16,041,408	1,888,981	566,781	290,991	129,781	2,876,534	172,906	299,220	472,126	19,390,068

Source: Ministry of Economy, Trade and Industry

In vehicle units

x 1 million yen

Trucks			Bus	ses	Tatal		
Mini	Subtotal	Chg. (%)		Chg. (%)	Total	Chg. (%)	Year
551,922	2,063,883	102.1	46,566	111.3	5,289,157	113.1	1970
438,987	2,337,632	90.8	36,105	78.8	6,941,591	105.9	1975
914,679	3,913,188	115.2	91,588	146.4	11,042,884	114.6	1980
1,388,583	4,544,688	105.2	79,591	110.2	12,271,095	107.0	1985
986,171	3,498,639	89.0	40,185	95.5	13,486,796	103.5	1990
804,276	2,537,737	93.9	47,266	96.2	10,195,536	96.6	1995
594,356	1,726,818	98.8	54,544	112.7	10,140,796	102.5	2000
546,185	1,706,611	98.6	76,313	126.3	10,799,659	102.7	2005
453,587	1,538,020	93.7	113,670	128.2	11,596,327	101.0	2007
443,718	1,508,399	98.1	139,102	122.4	11,575,644	99.8	2008
398,276	985,101	65.3	86,795	62.4	7,934,057	68.5	2009
449,776	1,209,179	122.7	109,334	126.0	9,628,875	121.4	2010
389,150	1,135,996	93.9	104,109	95.2	8,398,630	87.2	2011
407,206	1,266,354	111.5	122,220	117.4	9,943,077	118.4	2012
427,530	1,308,177	103.3	132,681	108.6	9,630,181	96.9	2013
425,065	1,357,761	103.8	139,834	105.4	9,774,665	101.5	2014
392,290	1,309,749	96.5	137,850	98.6	9,278,321	94.9	2015
377,921	1,201,067	91.7	129,743	94.1	9,204,696	99.2	2016

2,000cc), and "mini" (660cc and under); see page 66 for details. 2. KD sets have been excluded since 1979; they represent less than 60% of the cost of compositional components per Source: Japan Automobile Manufacturers Association

Motor Vehicle Sales Total 4.97 Million Units

Passenger car and commercial vehicle demand in Japan in 2016 totalled 4.97 million units, a decrease of 1.5% from the previous year. Total passenger car sales declined 1.6% to 4.15 million units, with standard cars rising 10.0% to 1.49 million units, but small cars and minicars dropping 2.9% to 1.31 million units and 11.0% to 1.35 million units, respectively. Meanwhile, truck sales slipped 1.1% from 2015 to 808,000 units, whereas sales of buses increased 15.8% to 15,000 units.

TRENDS IN NEW MOTOR VEHICLE

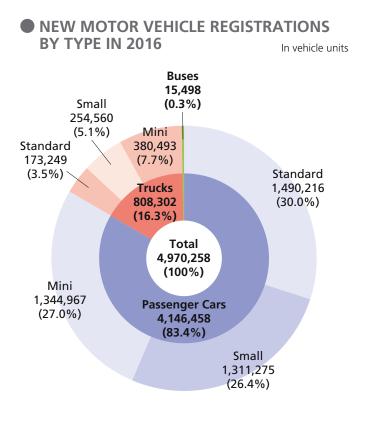
Total

Passenger Cars

Trucks & Buses

x 1 million units

REGISTRATIONS



NEW MOTOR VEHICLE REGISTRATIONS

		Pa	assenger Ca	rs		Trucks						
Year	Standard	Small	Mini	Subtotal	Chg. (%)	Standard	Small	Mini	Subtotal	Chg. (%)		
1970	9,068	1,652,899	717,170	2,379,137	116.8	168,086	986,673	538,743	1,693,502	95.6		
1975	49,125	2,531,396	157,120	2,737,641	119.7	121,118	999,155	431,181	1,551,454	100.7		
1980	71,931	2,608,215	174,030	2,854,176	94.0	154,472	1,144,167	839,308	2,137,947	102.2		
1985	73,539	2,869,527	161,017	3,104,083	100.3	118,009	945,484	1,367,685	2,431,178	104.7		
1990	467,490	3,839,221	795,948	5,102,659	115.9	193,775	1,449,678	1,006,456	2,649,909	93.7		
1995	889,260	2,654,291	900,355	4,443,906	105.6	177,264	1,411,296	815,265	2,403,825	104.6		
2000	770,220	2,208,387	1,281,265	4,259,872	102.5	84,626	1,015,313	586,660	1,686,599	99.6		
2005	1,271,349	2,089,992	1,387,068	4,748,409	99.6	197,548	351,708	536,648	1,085,904	101.8		
2007	1,299,168	1,654,025	1,447,106	4,400,299	94.8	171,998	293,021	472,713	937,732	86.8		
2008	1,250,987	1,549,677	1,426,979	4,227,643	96.1	146,690	249,655	442,914	839,259	89.5		
2009	1,160,175	1,480,137	1,283,429	3,923,741	92.8	87,692	180,509	404,742	672,943	80.2		
2010	1,419,909	1,507,693	1,284,665	4,212,267	107.4	101,697	187,642	441,755	731,094	108.6		
2011	1,139,910	1,246,126	1,138,752	3,524,788	83.7	107,290	185,097	382,393	674,780	92.3		
2012	1,411,700	1,602,951	1,557,681	4,572,332	129.7	136,359	227,326	421,765	785,450	116.4		
2013	1,399,407	1,472,704	1,690,171	4,562,282	99.8	143,272	235,883	422,820	801,975	102.1		
2014	1,437,589	1,422,883	1,839,119	4,699,591	103.0	164,815	252,828	433,671	851,314	106.2		
2015	1,354,541	1,349,944	1,511,404	4,215,889	89.7	172,502	259,936	384,796	817,234	96.0		
2016	1,490,216	1,311,275	1,344,967	4,146,458	98.4	173,249	254,560	380,493	808,302	98.9		

Year

Notes: 1. Chassis-based through 2002, data compilation became vehicle registration number-based as of 2003. 2. Truck figures include special-purpose vehicles (except large ones). 3. Data

NEW MINI-VEHICLE SALES E	BY TYPE
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In vehicle units

Year	Passenger Cars	Commercial Vehicles	Commercial Vehicles	Commercial Vehicles	Tatal	
Tear	(Minicars)	("Bonnet" minivans)	(Cab-over-engine minivans)	(Mini-trucks)	Total	Chg. (%)
2000	1,281,805	138,672	177,143	277,295	1,874,915	99.7
2001	1,273,570	120,010	175,594	284,346	1,853,520	98.9
2002	1,307,296	101,789	163,412	258,203	1,830,700	98.8
2003	1,291,889	89,532	172,644	250,690	1,804,755	98.6
2004	1,372,083	77,297	183,995	257,775	1,891,150	104.8
2005	1,387,068	77,547	197,141	261,960	1,923,716	101.7
2006	1,507,598	68,714	204,838	242,469	2,023,619	105.2
2007	1,447,106	57,509	196,040	219,164	1,919,819	94.9
2008	1,426,979	51,622	185,806	205,486	1,869,893	97.4
2009	1,283,429	42,932	167,358	194,452	1,688,171	90.3
2010	1,284,665	41,630	180,505	219,620	1,726,420	102.3
2011	1,138,752	33,023	168,705	180,665	1,521,145	88.1
2012	1,557,681	27,730	198,843	195,192	1,979,446	130.1
2013	1,690,171	25,199	194,728	202,893	2,112,991	106.7
2014	1,839,119	22,929	194,431	216,311	2,272,790	107.6
2015	1,511,404	18,536	184,127	182,133	1,896,200	83.4
2016	1,344,967	19,456	185,927	175,110	1,725,460	91.0

Note: "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100).

Source: Japan Mini Vehicles Association

In vehicle units

	Bus	ses								
Large	Small	Subtotal	Chg. (%)	Total	Chg. (%)	Total Vehicle Registrations	Chg. (%)	Total Mini- Vehicles	Chg. (%)	Year
10,256	17,572	27,828	104.2	4,100,467	106.9	2,844,554	104.9	1,255,913	111.7	1970
8,818	11,018	19,836	87.4	4,308,931	111.9	3,720,630	118.8	588,301	82.1	1975
9,414	13,973	23,387	97.5	5,015,510	97.3	4,002,172	93.1	1,013,338	118.3	1980
8,798	12,775	21,573	106.4	5,556,834	102.2	4,028,132	101.3	1,528,702	104.8	1985
9,162	15,763	24,925	105.9	7,777,493	107.2	5,975,089	107.4	1,802,404	106.3	1990
6,475	10,828	17,303	97.0	6,865,034	105.2	5,149,414	104.8	1,715,620	106.2	1995
4,333	12,238	16,571	114.5	5,963,042	101.7	4,095,117	102.7	1,867,925	99.7	2000
5,856	11,898	17,754	97.8	5,852,067	100.0	3,928,351	99.1	1,923,716	101.7	2005
5,153	10,464	15,617	88.7	5,353,648	93.3	3,433,829	92.4	1,919,819	94.9	2007
5,357	9,976	15,333	98.2	5,082,235	94.9	3,212,342	93.5	1,869,893	97.4	2008
4,234	8,338	12,572	82.0	4,609,256	90.7	2,921,085	90.9	1,688,171	90.3	2009
4,777	7,998	12,775	101.6	4,956,136	107.5	3,229,716	110.6	1,726,420	102.3	2010
3,136	7,515	10,651	83.4	4,210,219	84.9	2,689,074	83.3	1,521,145	88.1	2011
4,266	7,672	11,938	112.1	5,369,720	127.5	3,390,274	126.1	1,979,446	130.1	2012
4,181	7,075	11,256	94.3	5,375,513	100.1	3,262,522	96.2	2,112,991	106.7	2013
4,498	7,485	11,983	106.5	5,562,888	103.5	3,290,098	100.8	2,272,790	107.6	2014
5,260	8,127	13,387	111.7	5,046,510	90.7	3,150,310	95.8	1,896,200	83.4	2015
6,543	8,955	15,498	115.8	4,970,258	98.5	3,244,798	103.0	1,725,460	91.0	2016

includes imported cars. 4. "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100). Sources: Japan Automobile Dealers Association; Japan Mini Vehicles Association

Sales of Imported Vehicles Show First Increase in 3 Years

Imported vehicle sales in Japan in 2016 totalled 344,000 units, up 4.6% from the previous year, with passenger cars growing 4.6% to 328,000 units and commercial vehicles (trucks and buses) rising 3.4% to 16,000 units. Meanwhile, sales of used imported vehicles increased 3.3% to 531,000 units, with used imported passenger cars and used imported trucks climbing 3.5% to 512,000 units and 2.4% to 16,000 units, respectively.

TRENDS IN IMPORTED MOTOR VEHICLE SALES

Year 2007 2008 2009 2010 2013 2015 2016 2011 2012 2014 400,000 Vehicles produced by non-Japanese manufacturers 300.000 Passenger Cars **Commercial Vehicles** 200,000 Vehicles produced by Japanese manufacturers abroad 100,000 Passenger Cars Commercial Vehicles 0 Passenger Cars 230,078 192,317 159,143 180,255 203,800 239,546 278,846 288,830 284,471 294,060 Vehicles produced by non-Japanese **Commercial Vehicles** 1,515 1,585 1,761 2,057 2,017 1,025 1,054 1.827 1.694 1.366 manufacturers Total 231.593 193.902 160.904 182,082 205,857 241.563 280.540 290,196 285.496 295,114 8,746 Vehicles produced Passenger Cars 32.918 13.961 33.028 56.907 61.048 52,440 30.847 28,610 33.547 by Japanese **Commercial Vehicles** 575 11.368 8.877 9.973 12,880 13.382 13,153 14.917 14.516 15.012 manufacturers abroad Total 33,493 25,329 17,623 43,001 69,787 74,430 65,593 45,764 43,126 48,559 **Passenger Cars Total** 262,996 206,278 167.889 213,283 260,707 300,594 331,286 319,677 313.081 327,607 **Commercial Vehicles Total** 2,090 12.953 10,638 11,800 14,937 15,399 14,847 16,283 15,541 16,066 **Grand Totals** 265,086 219,231 178,527 225,083 275,644 315,993 346,133 335,960 328,622 343,673 122.5 97 1 97.8 Chg. (%) 101.1 82.7 81.4 126.1 114.6 109.5 104.6

Note: "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100).

Source: Japan Automobile Importers Association

In vehicle units

IMPORTED MOTOR VEHICLES (ON CUSTOMS CLEARANCE BASIS)

Passenger Commercial Total Motor Year Other Motorcycles Chg. (%) Chg. (%) Vehicles Vehicles Cars 1980 46,285 71.4 1,085 47,917 17,015 547 72.2 1985 52,225 1183 380 546 53 151 1184 7 0 8 7 1990 251,169 128 6 911 761 252.841 128 6 28 696 1995 401,836 136.0 2,469 390 404,695 130.3 43,936 283,582 376 285,428 74,906 2000 109.2 1.470 109.3 2005 282,654 98.6 1,420 660 284,734 98.4 444,635 293,757 104 5 708 104 5 458 722 291.387 2007 1 662 2008 228.255 783 14.288 796 243.339 82.8 413,817 2009 145,687 63.8 9,088 593 155,368 63.8 367,727 780 2010 230,791 158.4 11.922 243,493 156.7 353.260 2011 273,798 118.6 14,185 816 288,799 118.6 386,949 421 991 2012 333 380 1218 15 107 948 349 435 121 0 2013 343,730 103 1 16,255 1.348 361.333 103.4 438,737 1,278 2014 336,764 98.0 354,704 98.2 410,143 16.662 336,988 320,295 95.1 2015 15,873 820 95.0 353 519 331,207 103.4 17,455 349.313 103.7 341.254 2016 651

Notes: 1. "Other" denotes special-purpose vehicles and engine-mounted chassis. 2. "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100)

USED IMPORTED VEHICLE SALES

	Paccongor				Special-Purpose	r			
Year	Passenger Cars	Chg. (%)	Trucks	Chg. (%)	Vehicles	Chg. (%)	Other	Total	Chg. (%)
2007	543,211	92.6	12,518	112.6	17,574	77.6	204	573,507	92.4
2008	504,710	92.9	12,441	99.4	13,292	75.6	355	530,798	92.6
2009	470,986	93.3	12,547	100.9	10,083	75.9	165	493,781	93.0
2010	461,050	97.9	13,381	106.6	7,878	78.1	182	482,491	97.7
2011	462,435	100.3	14,370	107.4	6,756	85.8	164	483,725	100.3
2012	487,675	105.5	14,636	101.9	5,469	81.0	248	508,028	105.0
2013	487,750	100.0	15,428	105.4	4,724	86.4	220	508,122	100.0
2014	485,055	99.4	15,156	98.2	3,963	83.9	185	504,359	99.3
2015	495,170	102.1	15,373	101.4	3,649	92.1	171	514,363	102.0
2016	512,294	103.5	15,736	102.4	3,103	85.0	202	531,335	103.3

Notes: 1. For motor vehicle classifications in Japan, see page 66. 2. "Other" includes buses, large special-purpose vehicles and small-sized three-wheeled trucks. 3. "Chg. (%)" means Source: Japan Automobile Importers Association change from the previous year (with the previous year's result indexed at 100).

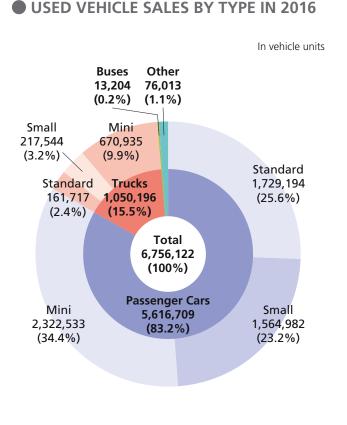
In vehicle units

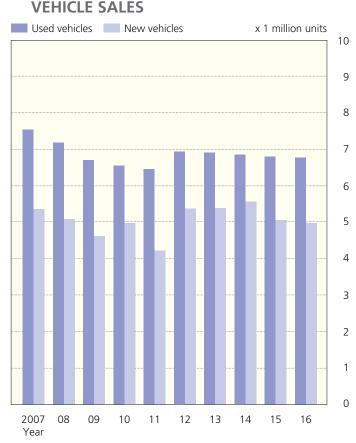
In vehicle units

Source: Trade Statistics of Japan, Ministry of Finance

Used Vehicle Sales Fall for Fourth Consecutive Year

In 2016 sales of used motor vehicles slipped 0.5% from the previous year to total 6.76 million units. Used passenger car sales dipped 0.2% to 5.62 million units, with standard passenger cars rising 3.6% to 1.73 million units, but small cars and minicars dropping 2.4% to 1.57 million units and 1.3% to 2.32 million units, respectively. Sales of used trucks slid 2.2% to 1.05 million units, whereas sales of used buses climbed 0.2% to 13,000 units.





TRENDS IN NEW AND USED MOTOR

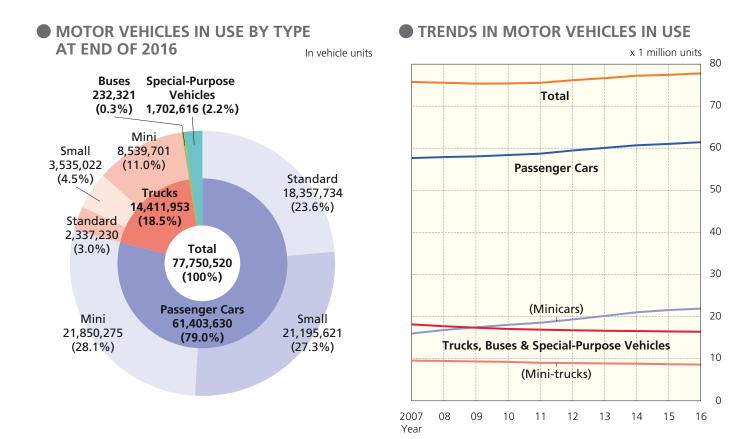
USED MOTOR VEHICLE SALES

Passenger Cars Trucks **Buses** Other Chq. Chg. Chg. Chg. Chg. Small Mini Subtotal Standard Small Mini Subtotal Standard Total Year (%) (%) (%) (%) (%) 1985 160,150 3.295.092 356.726 3.811.968 100.9 139.459 589.321 1,125,545 1.854.325 108.3 11.655 103.1 44.620 116.7 5.722.568 103.3 106.2 1990 304,193 3,945,086 304,782 4,554,061 185,851 555,634 1,746,495 2,487,980 102.1 13,377 98.3 54,118 107.3 7,109,536 104.7 727 259 5 566 646 1995 994 311 3,845,076 106.6 221 523 521 244 1.538.718 2.281.485 102.2 13 327 105 4 84,409 119.1 7 945 867 105 4 1,742,786 3 050 087 1 448 546 6 241 419 201 714 412 511 8 213 918 2000 104.8 1 169 626 1 783 851 99 1 15 173 102 7 173 475 105 2 103 5 2005 2,002,563 2,460,410 1,890,154 6,353,127 101.0 240,060 368,778 980,714 1,589,552 101.8 18,871 109.5 144,910 106.4 8,106,460 101.3 2007 1.810.596 2,105,122 2.022.866 5,938,584 94.3 220,989 302.043 935,745 1.458.777 90.4 16,418 79.5 116.317 86.1 7.530.096 93.3 89.9 1,728,090 1,944,766 1,995,333 5,668,189 95.4 225,848 278,673 884,836 1,389,357 16,193 104,516 7,178,255 95 3 2008 95.2 98.6 1,864,874 5,339,315 2009 1,619,370 1.855.071 94.2 194,180 266.395 787.957 1.248.532 89.9 15.293 94.4 95.452 91.3 6.698.592 933 1.816.696 177,327 2010 1.592.110 1 873 466 5 282 272 98 9 245 642 732 854 1 155 823 92.6 14 163 92.6 87 238 914 6.539.496 97 6 2011 1,733,519 1,906,523 5,182,656 98.1 168,470 233,556 769,613 1,171,639 6,450,151 98.6 1.542.614 101.4 13.849 97.8 82.007 94.0 2012 1,688,606 1.826.335 2,133,725 5,648,666 109.0 168.439 235.246 769,469 1,173,154 100.1 14,799 106.9 82,484 100.6 6.919.103 107.3 1,740,725 2,255,560 100.3 167,793 223,734 6,895,021 99.7 2013 1.666.732 5.663.017 746.631 1.138.158 97.0 12.830 86.7 81.016 98.2 2014 1,630,421 1,653,214 2,367,235 5.650.870 99.8 163.536 215,295 721,406 1,100,237 96.7 12.531 97.7 76,536 94.5 6,840,174 99.2 1,602,719 2,354,077 5,625,225 700,589 74.217 2015 1,668,429 99 5 162.130 211.480 1,074,199 97 6 13,173 105 1 97.0 6,786,814 99 2 1.564.982 2.322.533 5.616.709 99.8 161.717 217.544 670.935 1.050.196 97.8 100.2 76.013 102.4 6,756,122 2016 1.729.194 13.204 99.5

Notes: 1. Passenger cars and trucks are classified under Japan's Road Vehicles Act in three categories, based primarily on engine capacity: "standard" (over 2,000cc), "small" (661cc-2,000cc), and "mini" (660cc and under); see page 66 for details. 2. Includes imported vehicles. 3. "Other" refers to emergency vehicles, special vehicles equipped with beds, refrigerated trucks, tank trucks, tractors, bulldozers, steamrollers, snowplows, snowmobiles, etc., that are assigned special registration numbers. 4. "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100). Sources: Japan Automobile Dealers Association; Japan Mini Vehicles Association

Continued Increase in Number of Motor Vehicles in Use

At the end of December 2016, motor vehicles in use in Japan (excluding motorcycles) totalled 77.8 million units, a 0.4% increase over the previous year. Passenger cars in use increased 0.7% to 61.4 million units, with standard and minicars growing 2.4% and 1.6% to 18.4 million and 21.9 million units respectively, but small cars dropping 1.6% to 21.2 million units. Meanwhile, trucks in use slipped 0.6% from 2015 to 14.4 million units, whereas buses in use rose 1.3% to 232,000 units. At the end of March 2016, the average service life of motor vehicles in Japan was 12.76 years for passenger cars, 13.89 years for trucks, and 16.83 years for buses.



MOTOR VEHICLES IN USE (at end of every calendar year)

		Pa	assenger Ca	rs				Trucks	-	
Year	Standard	Small	Mini	Subtotal	Chg. (%)	Standard	Small	Mini	Subtotal	Chg. (%)
1970	77,374	6,457,181	2,244,417	8,778,972	126.6	798,256	4,478,486	3,005,017	8,281,759	107.1
1975	207,511	14,417,680	2,611,130	17,236,321	108.7	1,158,465	6,100,206	2,785,182	10,043,853	98.9
1980	472,314	21,011,096	2,176,110	23,659,520	104.4	1,494,464	7,155,221	4,527,794	13,177,479	104.8
1985	711,914	25,116,179	2,016,487	27,844,580	102.6	1,668,852	6,679,665	8,791,289	17,139,806	105.5
1990	1,784,594	30,554,652	2,584,926	34,924,172	107.1	2,176,488	6,609,536	12,535,415	21,321,439	101.1
1995	7,874,189	31,030,462	5,775,386	44,680,037	104.7	2,574,433	6,213,405	11,642,311	20,430,149	98.9
2000	13,942,626	28,593,491	9,901,258	52,437,375	102.5	2,596,421	5,474,660	10,154,427	18,225,508	97.8
2005	16,634,529	26,254,546	14,201,714	57,090,789	102.0	2,474,378	4,594,363	9,665,130	16,733,871	99.7
2007	16,771,502	24,921,226	15,931,025	57,623,753	100.2	2,455,268	4,323,579	9,495,420	16,274,267	98.6
2008	16,748,373	24,356,113	16,760,486	57,864,972	100.4	2,386,255	4,102,553	9,407,694	15,896,502	97.7
2009	16,688,645	23,919,019	17,412,189	58,019,853	100.3	2,319,612	3,952,534	9,288,679	15,560,825	97.9
2010	16,890,402	23,470,003	17,986,982	58,347,387	100.6	2,281,711	3,825,632	9,177,282	15,284,625	98.2
2011	17,039,684	23,143,892	18,486,738	58,670,314	100.6	2,266,420	3,740,361	8,963,641	14,970,422	97.9
2012	17,294,021	22,868,749	19,258,239	59,421,009	101.3	2,266,836	3,672,649	8,895,635	14,835,120	99.1
2013	17,509,103	22,435,835	20,090,359	60,035,297	101.0	2,270,812	3,614,925	8,818,149	14,703,886	99.1
2014	17,714,352	21,974,741	20,978,424	60,667,517	101.1	2,294,449	3,581,884	8,748,653	14,624,986	99.5
2015	17,935,861	21,547,282	21,504,199	60,987,342	100.5	2,316,208	3,552,373	8,634,637	14,503,218	99.2
2016	18,357,734	21,195,621	21,850,275	61,403,630	100.7	2,337,230	3,535,022	8,539,701	14,411,953	99.4

Notes: 1. "Special-purpose vehicles" refers to emergency vehicles, special vehicles equipped with beds, refrigerated trucks, tank trucks, tractors, bulldozers, steamrollers, snowplows, vehicles. 3. "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100).

PRIVATE PASSENGER CARS IN USE PER **100 HOUSEHOLDS BY PREFECTURE** (at March 31, 2016) In vohicle unite

1. Fukui 174.9 2. Toyama 170.6 3. Yamagata 167.9 4. Gunma 164.8 5. Tochigi 162.3 6. Ibaraki 160.5 7. Gifu 159.6 8. Nagano 158.4 9. Fukushima 156.4 11. Yamanashi 154.6 12. Saga 152.0 13. Ishikawa 148.9 14. Mie 146.4 15. Tottori 145.1 16. Shizuoka 141.4 17. Shiga 140.3 19. Shimane 140.1 20. Akita 138.7 21. Tokushima 135.5 23. Kagawa 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 122.5 27. Aichi 122.5 28. Otta 122.5 29. Miyazaki 122.7 30. Yamaguchi 122.5 32. Kagashima 111.1 35. Nagasaki 108.3 <	(at Mar	ch 31, 2016)	In vehicle units
2. Toyama 170.6 3. Yamagata 167.9 4. Gunma 164.8 5. Tochigi 162.3 6. Ibaraki 160.5 7. Gifu 159.6 8. Nagano 158.4 9. Fukushima 156.4 10. Niigata 155.4 11. Yamanashi 152.0 13. Ishikawa 148.9 14. Mie 146.4 15. Tottori 145.1 16. Shizuoka 141.4 17. Shiga 140.3 18. Iwate 140.3 19. Shimane 140.1 20. Akita 133.7 22. Tokushima 135.5 23. Kagawa 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 122.5 29. Miyazaki 127.7 30.4 Kagama 111.1 36. Nara 111.1 37. Kagoshima 115.8 38. Nagasaki 108.3 39. Fukuoka 108.1 39. Fukuoka			
2. Toyama 170.6 3. Yamagata 167.9 4. Gunma 164.8 5. Tochigi 162.3 6. Ibaraki 160.5 7. Gifu 159.6 8. Nagano 158.4 9. Fukushima 156.4 10. Niigata 155.4 11. Yamanashi 152.0 13. Ishikawa 148.9 14. Mie 146.4 15. Tottori 145.1 16. Shizuoka 141.4 17. Shiga 140.3 18. Iwate 140.3 19. Shimane 140.1 20. Akita 138.7 21. Okayama 137.2 22. Tokushima 135.5 23. Kagawa 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 122.5 32. Wakayama 121.5 33. Kagoshima 115.8 34. Ehime 112.5 35. Hiroshima 111.1 36. Nara 111.1 37. Kochi <td< td=""><td>1. Fukui</td><td></td><td>174.9</td></td<>	1. Fukui		174.9
3. Yamagata 167.9 4. Gunma 164.8 5. Tochigi 162.3 6. Ibaraki 150.5 7. Gifu 159.6 8. Nagano 158.4 9. Fukushima 156.4 10. Niigata 155.4 11. Yamanashi 154.6 12. Saga 152.0 13. Ishikawa 148.9 14. Mie 146.4 15. Tottori 144.6 15. Singa 140.3 18. Iwate 140.3 19. Shimane 140.1 20. Akita 138.7 21. Okayama 137.2 22. Tokushima 135.5 23. Kagawa 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.5 29. Miyazaki 127.7 30. Kagoshima 115.8 34. Ehiroshima 111.1 35. Kagoshima 115.8 34. Ehiroshima 111.1 35. Kagoshima 115.8 34. Ehiroshim			
4. Gunma 164.8 5. Tochigi 162.3 6. Ibaraki 100.5 7. Gifu 159.6 8. Nagano 158.4 9. Fukushima 156.4 10. Niigata 155.4 11. Yamanashi 154.6 12. Saga 152.0 13. Ishikawa 148.9 14. Mie 146.4 15. Tottori 1445.1 16. Shizuoka 141.4 17. Shiga 140.3 19. Shimane 140.3 19. Shimane 140.1 20. Akta 133.7 21. Okayama 133.7.2 22. Tokushima 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.8 28. Oita 122.5 29. Miyazaki 127.7 31. Aomori 122.5 32. Kagashima 115.8 34. Ehime 111.0 37. Kochi 110.8 38. Nagasaki 108.3 39. Fukuoka <			
5. Tochigi 162.3 6. Ibaraki 160.5 7. Gifu 159.6 8. Nagano 158.4 9. Fukushima 156.4 10. Niigata 155.4 11. Yamanashi 154.6 12. Saga 152.0 13. Ishikawa 148.9 14. Mie 146.4 15. Tottori 145.1 16. Shizuoka 141.4 17. Singa 140.3 18. Iwate 140.3 19. Shimane 140.1 20. Akita 138.7 21. Tokushima 135.5 23. Kagawa 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.5 29. Miyazaki 127.7 30. Yamaguchi 133.7 31. Aomori 122.5 22. Wakayama 111.0 33. Kagoshima 1158.8 34. Ehime 1112.5 35. Hiroshima 111.1 36. Nara 1108.1 39. Fukuoka		"	
6. Ibaraki 160.5 7. Gifu 159.6 8. Nagano 158.4 9. Fukushima 156.4 10. Niigata 155.4 11. Yamanashi 154.6 12. Saga 152.0 13. Ishikawa 148.9 14. Mie 146.4 15. Tottori 145.1 16. Shizuoka 141.4 17. Shiga 140.3 18. Iwate 140.3 19. Shimane 140.1 20. Akita 138.7 21. Okayama 137.2 22. Tokushima 135.5 23. Kagawa 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.8 28. Oita 128.7 30. Yamaguchi 123.7 31. Aomori 122.5 32. Wakayama 121.5 33. Kagoshima 111.1 36. Nagashi 108.3 39. Fukuoka 108.3 39. Fukuoka 100.6 41. Saitama			
7. Gifu 159.6 8. Nagano 158.4 9. Fukushima 156.4 10. Niigata 155.4 11. Yamanashi 154.6 12. Saga 152.0 13. Ishikawa 148.9 14. Mie 146.4 15. Tottori 145.1 16. Shizuoka 141.4 17. Shiga 140.3 19. Shimane 140.1 20. Akita 138.7 21. Okushima 135.5 23. Kagawa 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.5 29. Miyazaki 127.7 30. Kagoshima 112.5 31. Aomori 122.5 32. Wakayama 112.5 33. Kagoshima 115.8 34. Ehime 111.0 35. Hiroshima 111.1 36. Nara 110.8 39. Fukuoka 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba			
8. Nagano 158.4 9. Fukushima 156.4 10. Niigata 155.4 11. Yamanashi 154.6 12. Saga 152.0 3. Ishikawa 148.9 14. Mie 146.4 15. Tottori 145.1 16. Shizuoka 141.4 17. Shiga 140.3 18. Iwate 140.3 19. Shimane 140.1 20. Akita 138.7 21. Okayama 137.2 22. Tokushima 135.5 33. Kagawa 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.8 28. Oita 128.5 29. Miyazaki 127.7 30. Yamaguchi 123.7 31. Aomori 122.5 32. Wakayama 111.1 35. Hiroshima 1111.1 36. Nara 110.8 37. Hiroshima 111.1 38. Nagasaki 108.3 39. Fukuoka 108.1 40. Hokkaido </td <td></td> <td></td> <td></td>			
9. Fukushima 156.4 10. Niigata 155.4 11. Yamanashi 154.6 12. Saga 152.0 13. Ishikawa 148.9 14. Mie 146.4 15. Tottori 145.1 16. Shizuoka 141.4 17. Shiga 140.3 18. Iwate 140.3 19. Shimane 140.1 20. Akita 138.7 21. Okayama 137.2 22. Tokushima 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.8 28. Oita 128.5 29. Miyazaki 127.7 30. Yamaguchi 123.7 31. Aomori 122.5 32. Wakayama 121.5 33. Kagoshima 115.8 34. Ehime 110.8 38. Nagasaki 108.3 39. Fukuoka 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo			
10. Niigata 155.4 11. Yamanashi 154.6 12. Saga 152.0 13. Ishikawa 148.9 14. Mie 146.4 15. Tottori 145.1 16. Shizuoka 141.4 17. Shiga 140.3 18. Iwate 140.3 19. Shimane 140.1 20. Akita 138.7 21. Okayama 137.2 22. Tokushima 135.5 23. Kagawa 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.8 28. Oita 128.8 29. Miyazaki 127.7 30. Yamaguchi 123.7 31. Aomori 122.5 32. Wakayama 121.5 33. Kagoshima 115.8 34. Ehime 111.0 37. Kochi 110.8 38. Nagasaki 108.3 39. Fukuoka 108.1 40. Hokkaido 100.6 41. Saitama 99.5 43. Hyogo			
11. Yamanashi 154.6 12. Saga 152.0 13. Ishikawa 148.9 14. Mie 146.4 15. Tottori 1445.1 16. Shizuoka 141.4 17. Shiga 140.3 18. Iwate 140.3 19. Shimane 140.1 20. Akita 138.7 21. Okayama 137.2 22. Tokushima 135.5 23. Kagawa 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.8 28. Oita 128.5 29. Miyazaki 127.7 30. Yamaguchi 123.7 31. Aomori 122.5 32. Wakayama 111.1 36. Nara 111.1 36. Nara 1111.1 37. Kochi 110.8 38. Nagasaki 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 8			
12. Saga 152.0 13. Ishikawa 148.9 14. Mie 146.4 15. Tottori 145.1 16. Shizuoka 141.4 17. Shiga 140.3 18. Iwate 140.3 19. Shimane 140.1 20. Akita 138.7 21. Okayama 137.2 22. Tokushima 135.5 23. Kagawa 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.8 28. Oita 128.5 29. Miyazaki 127.7 30. Yamaguchi 123.7 31. Acmori 122.5 32. Wakayama 121.5 33. Kagoshima 115.8 34. Ehime 111.1 35. Nagoshima 115.8 34. Ehime 111.1 35. Kagoshima 115.8 34. Ehime 111.0 37. Kochi 108.1 40. Hokkaido 100.6 41. Saitama 99.5 43. Hyogo			
13. Ishikawa 148.9 14. Mie 146.4 15. Tottori 145.1 16. Shizuoka 141.4 17. Shiga 140.3 18. Iwate 140.3 19. Shimane 140.1 20. Akita 138.7 21. Okayama 137.2 25. Tokushima 135.5 28. Kita 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.8 28. Oita 128.5 29. Miyazaki 127.7 30. Yamaguchi 123.7 31. Aomori 122.5 32. Wakayama 121.5 33. Kagoshima 115.8 34. Ehime 111.1 36. Nara 1110.8 37. Kochi 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 <td></td> <td></td> <td></td>			
14. Mie 146.4 15. Tottori 145.1 16. Shizuoka 141.4 17. Shiga 140.3 18. Iwate 140.3 19. Shimane 140.1 20. Akita 138.7 21. Okayama 137.2 22. Tokushima 135.5 23. Kagawa 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.8 28. Oita 128.5 29. Miyazaki 127.7 30. Yamaguchi 122.5 32. Wakayama 121.5 33. Kagoshima 115.8 34. Ehime 111.0 35. Hiroshima 111.1 36. Nara 111.0 37. Kochi 110.8 38. Nagasaki 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 65.3 47. Tokyo			
15. Tottori 145.1 16. Shizuoka 141.4 17. Shiga 140.3 18. Iwate 140.1 20. Akita 138.7 21. Okushima 135.5 23. Kagawa 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.8 28. Oita 128.7 30. Yamaguchi 127.7 30. Yamaguchi 123.7 31. Aomori 122.5 32. Wakayama 121.5 33. Kagoshima 115.8 34. Ehime 112.5 35. Hiroshima 111.1 36. Nara 111.0 37. Kochi 108.3 38. Nagasaki 108.3 39. Fukuoka 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average <		"	
16. Shizuoka 141.4 17. Shiga 140.3 18. Iwate 140.3 19. Shimane 140.1 20. Akita 138.7 21. Okayama 137.2 22. Tokushima 135.5 23. Kagawa 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.8 28. Oita 128.5 29. Miyazaki 127.7 30. Yamaguchi 123.7 31. Aomori 122.5 32. Wakayama 121.5 33. Kagoshima 111.1 36. Nara 111.1 36. Nara 111.1 37. Hiroshima 111.1 38. Nagasaki 108.1 39. Fukuoka 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo <td< td=""><td></td><td></td><td></td></td<>			
17. Shiga 140.3 18. Iwate 140.3 19. Shimane 140.1 20. Akita 138.7 21. Okayama 137.2 22. Tokushima 135.5 23. Kagawa 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.8 28. Oita 128.5 29. Miyazaki 127.7 30. Yamaguchi 122.5 32. Wakayama 121.5 33. Kagoshima 115.8 34. Ehime 112.5 35. Hiroshima 111.1 36. Nara 111.0 37. Kochi 110.8 38. Nagasaki 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4			
18. Iwate 140.3 19. Shimane 140.1 20. Akita 138.7 21. Okayama 137.2 22. Tokushima 135.5 23. Kagawa 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.8 28. Oita 128.5 29. Miyazaki 127.7 30. Yamaguchi 122.5 32. Wakayama 121.5 33. Kagoshima 115.8 34. Ehime 111.1 35. Hiroshima 111.1 36. Nara 111.0 37. Kochi 110.8 38. Nagasaki 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4			
19. Shimane 140.1 20. Akita 138.7 21. Okayama 137.2 22. Tokushima 135.5 23. Kagawa 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.8 28. Oita 128.7 30. Yamaguchi 127.7 30. Yamaguchi 123.7 31. Aomori 122.5 32. Wakayama 121.5 33. Kagoshima 115.8 34. Ehime 112.5 35. Hiroshima 111.1 36. Nara 111.0 37. Kochi 110.8 38. Nagasaki 108.3 39. Fukuoka 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4			
20. Akita 138.7 21. Okayama 137.2 22. Tokushima 135.5 23. Kagawa 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.8 28. Oita 128.5 29. Miyazaki 127.7 30. Yamaguchi 123.7 31. Aomori 122.5 32. Wakayama 121.5 33. Kagoshima 111.1 36. Nara 111.1 35. Hiroshima 111.1 38. Nagasaki 108.3 39. Fukuoka 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4			
21. Okayama 137.2 22. Tokushima 135.5 23. Kagawa 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.8 28. Oita 128.5 29. Miyazaki 127.7 30. Yamaguchi 122.5 32. Wakayama 121.5 33. Kagoshima 115.8 34. Ehime 112.5 35. Hiroshima 111.1 36. Nara 1110.8 39. Fukuoka 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4		"	
23. Kagawa 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.8 28. Oita 128.5 29. Miyazaki 127.7 30. Yamaguchi 123.7 31. Aomori 122.5 32. Wakayama 121.5 33. Kagoshima 115.8 34. Ehime 112.5 35. Hiroshima 111.1 36. Nara 111.0 37. Kochi 110.8 38. Nagasaki 108.3 39. Fukuoka 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4			
23. Kagawa 133.7 24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.8 28. Oita 128.5 29. Miyazaki 127.7 30. Yamaguchi 123.7 31. Aomori 122.5 32. Wakayama 121.5 33. Kagoshima 115.8 34. Ehime 112.5 35. Hiroshima 111.1 36. Nara 111.0 37. Kochi 110.8 38. Nagasaki 108.3 39. Fukuoka 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4	27. Okushima	"	
24. Kumamoto 131.4 25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.5 28. Oita 128.5 29. Miyazaki 127.7 30. Yamaguchi 123.7 31. Aomori 122.5 32. Wakayama 121.5 33. Kagoshima 111.1 34. Ehime 112.5 35. Hiroshima 111.1 36. Nara 111.0 37. Kochi 110.8 38. Nagasaki 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4	22. TORUSHIITIA		
25. Miyagi 130.8 26. Okinawa 129.2 27. Aichi 128.5 28. Oita 128.5 29. Miyazaki 127.7 30. Yamaguchi 123.7 31. Aomori 122.5 32. Wakayama 121.5 33. Kagoshima 115.8 34. Ehime 112.5 35. Hiroshima 111.1 36. Nara 111.0 37. Kochi 110.8 38. Nagasaki 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4	24 Kumamoto		
26. Okinawa 129.2 27. Aichi 128.8 28. Oita 128.5 29. Miyazaki 127.7 30. Yamaguchi 123.7 31. Aomori 122.5 32. Wakayama 121.5 33. Kagoshima 115.8 34. Ehime 112.5 35. Hiroshima 111.1 36. Nara 111.0 37. Kochi 110.8 38. Nagasaki 108.3 39. Fukuoka 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4			
27. Aichi 128.8 28. Oita 128.5 29. Miyazaki 127.7 30. Yamaguchi 123.7 31. Aomori 122.5 32. Wakayama 121.5 33. Kagoshima 115.8 34. Ehime 112.5 35. Hiroshima 111.1 36. Nara 111.0 37. Kochi 110.8 38. Nagasaki 108.3 39. Fukuoka 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4			
28. Oita 128.5 29. Miyazaki 127.7 30. Yamaguchi 123.7 31. Aomori 122.5 32. Wakayama 121.5 33. Kagoshima 115.8 34. Ehime 112.5 35. Hiroshima 111.1 36. Nara 111.0 37. Kochi 110.8 38. Nagasaki 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4			
29. Miyazaki 127.7 30. Yamaguchi 123.7 31. Aomori 122.5 32. Wakayama 121.5 33. Kagoshima 115.8 34. Ehime 112.5 35. Hiroshima 111.1 36. Nara 111.0 37. Kochi 110.8 38. Nagasaki 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4			
30. Yamaguchi 123.7 31. Aomori 122.5 32. Wakayama 121.5 33. Kagoshima 115.8 34. Ehime 112.5 35. Hiroshima 111.1 36. Nara 111.0 37. Kochi 110.8 38. Nagasaki 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4			
31. Aomori 122.5 32. Wakayama 121.5 33. Kagoshima 115.8 34. Ehime 112.5 35. Hiroshima 111.1 36. Nara 111.0 37. Kochi 110.8 38. Nagasaki 108.3 39. Fukuoka 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4	30 Vamaquchi		
32. Wakayama 121.5 33. Kagoshima 115.8 34. Ehime 112.5 35. Hiroshima 111.1 36. Nara 111.0 37. Kochi 110.8 38. Nagasaki 108.1 39. Fukuoka 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4	21 Aomori		
33. Kagoshima 115.8 34. Ehime 112.5 35. Hiroshima 111.1 36. Nara 111.0 37. Kochi 110.8 38. Nagasaki 108.3 39. Fukuoka 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4			
34. Ehime 112.5 35. Hiroshima 111.1 36. Nara 111.0 37. Kochi 110.8 38. Nagasaki 108.1 39. Fukuoka 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4		1	
35. Hiroshima 111.1 36. Nara 111.0 37. Kochi 110.8 38. Nagasaki 108.3 39. Fukuoka 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4			
36. Nara 111.0 37. Kochi 110.8 38. Nagasaki 108.3 39. Fukuoka 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4			
37. Kochi 110.8 38. Nagasaki 108.3 39. Fukuoka 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4			
38. Nagasaki 108.3 39. Fukuoka 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average	37 Kochi		
39. Fukuoka 108.1 40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4			
40. Hokkaido 100.6 41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4			
41. Saitama 99.5 42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4			•
42. Chiba 99.5 43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4			
43. Hyogo 91.8 44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4			
44. Kyoto 83.1 45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4			
45. Kanagawa 72.5 46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4			
46. Osaka 65.3 47. Tokyo 45.0 National Average 106.4			
47. Tokyo 45.0 National Average 106.4			
National Average 106.4			
	47. TUKYU	43.0	
0 50 100 150 200	National Average	106.	4
0 50 100 150 200			
		0 50 1	00 150 200

Source: Automobile Inspection & Registration Information Association

PASSENGER CARS IN USE BY YEAR OF FIRST REGISTRATION At March 31, 2016

Year of First Registration	Vehicles in Use	% of "Vehicles in Use" Total
April 2015-March 2016	2,629,376	6.68
April 2014-March 2015	2,622,658	6.66
April 2013-March 2014	2,920,514	7.42
April 2012-March 2013	2,715,709	6.90
April 2011-March 2012	2,546,180	6.47
April 2010-March 2011	2,366,405	6.01
April 2009-March 2010	2,561,881	6.51
April 2008-March 2009	2,070,457	5.26
April 2007-March 2008	2,357,017	5.99
April 2006-March 2007	2,271,658	5.77
April 2005-March 2006	2,399,626	6.10
April 2004-March 2005	2,124,963	5.40
April 2003-March 2004	1,924,906	4.89
April 2002-March 2003	1,566,714	3.98
-March 2002	6,276,581	15.95
Total "Vehicles in Use"	39,354,645	100.00

AVERAGE AGE BY TYPE

AVERAC	In years		
Year	Passenger Cars	Trucks	Buses
2007	7.09	8.68	9.80
2008	7.23	8.98	10.02
2009	7.48	9.16	10.26
2010	7.56	9.62	10.50
2011	7.74	10.04	10.78
2012	7.95	10.43	11.12
2013	8.07	10.73	11.38
2014	8.13	10.93	11.56
2015	8.29	11.09	11.76
2016	8.44	11.23	11.87

AVERAGE SERVICE LIFE BY TYPE

AVERAC	E SERVICE		Left In years
Year	Passenger Cars	Trucks	Buses
2007	11.66	11.92	14.83
2008	11.67	11.72	15.62
2009	11.68	13.50	15.00
2010	12.70	12.72	16.59
2011	12.43	13.04	17.37
2012	12.16	12.81	16.82
2013	12.58	13.24	17.91
2014	12.64	13.31	17.63
2015	12.38	13.72	16.95
2016	12.76	13.89	16.83

Notes: 1. "Average age" means the average number of years elapsed since first registration. 2. "Average service life" means average vehicle lifespan. 3. "Average age" and "average service life" figures are as at the end of every fiscal year. 4. The above three tables exclude mini-vehicles.

Source: Automobile Inspection & Registration Information Association

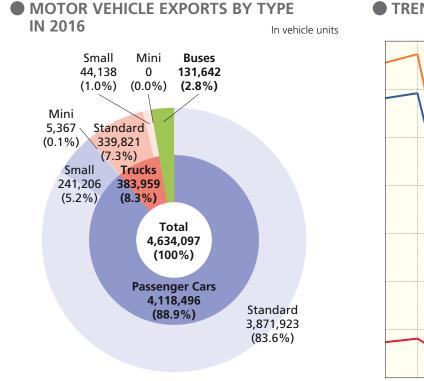
In vehicle units

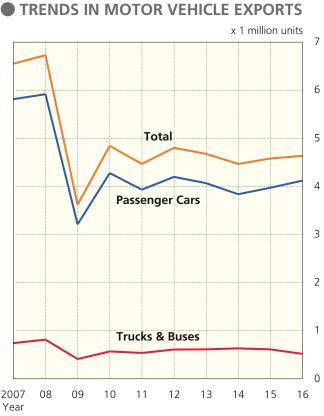
	Buse	es		Special-Purp	ose Vehicles				Three-	
Large	Small	Subtotal	Chg. (%)	[Chg. (%)	Total	Chg. (%)	Trailers	Wheeled Vehicles	Year
104,895	83,085	187,980	110.5	333,132	110.5	17,581,843	116.2	23,079	243,934	1970
102,186	124,098	226,284	101.7	584,100	101.7	28,090,558	104.9	39,808	47,998	1975
106,633	123,387	230,020	100.4	789,155	100.4	37,856,174	104.5	56,804	17,724	1980
108,967	122,261	231,228	100.5	941,647	100.5	46,157,261	103.7	65,485	6,123	1985
114,819	130,849	245,668	101.6	1,206,390	101.6	57,697,669	104.7	87,359	4,056	1990
114,478	128,617	243,095	99.1	1,500,219	99.1	66,853,500	102.8	120,171	3,621	1995
110,046	125,437	235,483	99.9	1,750,733	99.9	72,649,099	101.3	133,676	3,827	2000
109,917	121,816	231,733	100.3	1,630,062	98.8	75,686,455	101.4	147,626	3,280	2005
109,621	121,307	230,928	99.7	1,585,873	98.7	75,714,821	99.8	154,798	3,201	2007
109,808	120,873	230,681	99.9	1,536,160	96.9	75,528,315	99.8	157,951	3,119	2008
108,760	119,637	228,397	99.0	1,515,411	98.6	75,324,486	99.7	152,381	3,127	2009
108,136	119,135	227,271	99.5	1,502,593	99.2	75,361,876	100.0	152,834	3,120	2010
107,435	118,513	225,948	99.4	1,646,203	109.6	75,512,887	100.2	154,100	3,089	2011
107,528	118,551	226,079	100.1	1,643,325	99.8	76,125,533	100.8	155,835	14,816	2012
107,723	118,204	225,927	99.9	1,653,956	100.6	76,619,066	100.6	157,212	15,478	2013
108,545	118,399	226,944	100.5	1,669,019	100.9	77,188,466	100.7	159,863	16,376	2014
110,096	119,293	229,389	101.1	1,684,382	100.9	77,404,331	100.3	162,350	17,391	2015
112,011	120,310	232,321	101.3	1,702,616	101.1	77,750,520	100.4	165,769	18,494	2016

snowmobiles, etc., that are identified as special-purpose vehicles by special registration numbers. 2. "Three-wheeled vehicles" includes three-wheeled passenger cars, trucks, and special-purpose Source: Ministry of Land, Infrastructure, Transport and Tourism

Motor Vehicle Exports Increase for Second Consecutive Year

Exports of motor vehicles in 2016 grew 1.2% from the previous year to 4.63 million units. Passenger car exports rose 3.7% to 4.12 million units, whereas truck exports and bus exports dropped 17.7% and 6.8%, to 384,000 units and 132,000 units respectively.

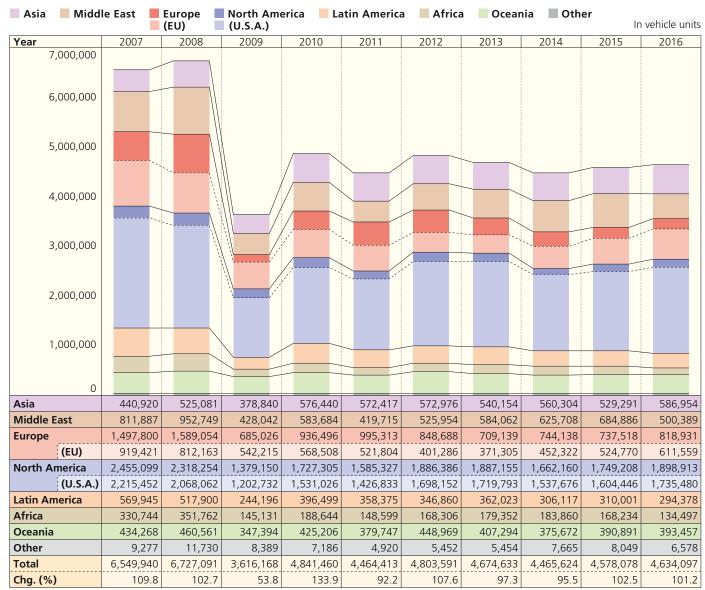




MOTOR VEHICLE EXPORTS

			Passenger Cars				
Year	Standard	Small	Mini	Subtotal	Chg. (%)	Standard	Small
1970	71	5,450	10,136	725,586	129.5	65,170	272,549
1975	1,82	1,835	5,451	1,827,286	105.8	168,370	643,232
1980	345,413	3,580,623	21,124	3,947,160	127.2	332,257	1,548,251
1985	493,047	3,932,414	1,301	4,426,762	111.2	1,196,973	1,029,757
1990	1,343,967	3,138,147	16	4,482,130	101.8	944,737	364,376
1995	1,156,122	1,732,050	8,044	2,896,216	86.2	612,654	236,929
2000	2,333,263	1,462,069	520	3,795,852	101.0	530,823	86,329
2005	3,164,603	1,198,273	292	4,363,168	103.5	521,848	89,946
2007	4,450,934	1,359,414	1,611	5,811,959	109.8	527,010	89,128
2008	4,379,569	1,534,975	885	5,915,429	101.8	567,596	90,581
2009	2,403,359	804,980	300	3,208,639	54.2	267,060	48,447
2010	3,453,951	818,660	2,755	4,275,366	133.2	397,404	52,908
2011	3,176,195	743,509	10,200	3,929,904	91.9	369,973	53,786
2012	3,550,010	641,749	6,735	4,198,494	106.8	410,251	66,652
2013	3,564,559	499,541	1,419	4,065,519	96.8	397,694	74,465
2014	3,593,941	239,198	2,456	3,835,595	94.3	408,859	79,614
2015	3,759,771	205,727	4,505	3,970,003	103.5	392,531	74,245
2016	3,871,923	241,206	5,367	4,118,496	103.7	339,821	44,138

Notes: 1. Figures represent ex-factory export shipments of motor vehicles manufactured in Japan, which are classified in the above categories as per Japanese law, including the Road Vehicles Act. compositional components per vehicle and have been treated as components since 1988. 4. "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100).



MOTOR VEHICLE EXPORT TRENDS BY DESTINATION

Note: "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100).

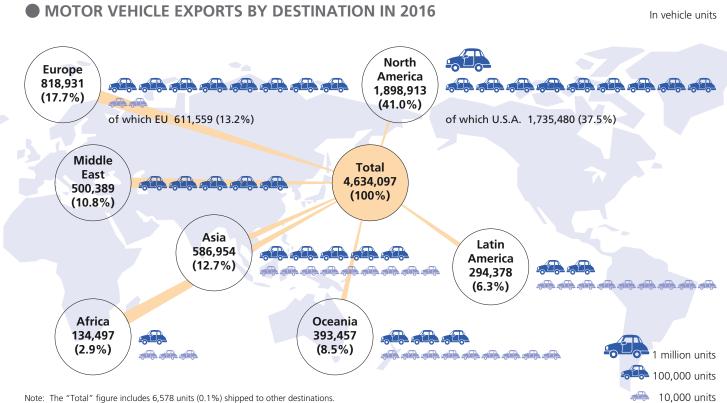
Trucks			Bus	es			
Mini	Subtotal	Chg. (%)		Chg. (%)	Total	Chg. (%)	Year
13,892	351,611	120.9	9,579	141.6	1,086,776	126.7	1970
22,071	833,673	95.3	16,653	104.3	2,677,612	102.3	1975
73,177	1,953,685	137.2	66,116	179.4	5,966,961	130.8	1980
11,374	2,238,104	108.0	65,606	116.7	6,730,472	110.2	1985
8	1,309,121	90.6	39,961	113.7	5,831,212	99.1	1990
276	849,859	82.8	44,734	60.8	3,790,809	85.0	1995
718	617,870	100.8	41,163	107.3	4,454,885	101.0	2000
162	611,956	89.0	77,937	139.6	5,053,061	101.9	2005
312	616,450	106.7	121,531	130.4	6,549,940	109.8	2007
41	658,218	106.8	153,444	126.3	6,727,091	102.7	2008
0	315,507	47.9	92,022	60.0	3,616,168	53.8	2009
0	450,312	142.7	115,782	125.8	4,841,460	133.9	2010
8	423,767	94.1	110,742	95.6	4,464,413	92.2	2011
16	476,919	112.5	128,178	115.7	4,803,591	107.6	2012
20	472,179	99.0	136,935	106.8	4,674,633	97.3	2013
0	488,473	103.5	141,556	103.4	4,465,624	95.5	2014
0	466,776	95.6	141,299	99.8	4,578,078	102.5	2015
0	383,959	82.3	131,642	93.2	4,634,097	101.2	2016

2. Vehicle type classification in this table differs somewhat from that used in Ministry of Finance export data. 3. KD sets have been excluded since 1979; they represent less than 60% of the cost of Source: Japan Automobile Manufacturers Association

In vehicle units

An Increase in Motor Vehicle Exports to Europe, Asia, North America, and Oceania

Compared to the previous year, motor vehicle exports in 2016 climbed 11.0% to Europe, 10.9% to Asia, 8.6% to North America, and 0.7% to Oceania, but declined 26.9% to the Middle East, 20.1% to Africa, and 5.0% to Latin America.



Note: The "Total" figure includes 6,578 units (0.1%) shipped to other destinations.

MOTOR VEHICLE EXPORT TRENDS BY DESTINATION

In %

Asia	6.7	7.8	10.5	11.9	12.8	11.9	11.6	12.5	11.6	12.7
Middle East	12.4	14.2	11.8	12.1	9.4	11.0	12.5	14.0	15.0	10.8
Europe (EU)	22.9 (14.0)	23.6 (12.1)	19.0 (15.0)	(11.7)	22.3 (11.7)	17.7 (8.4)	15.2 (7.9)	16.7 (10.1)	16.1 (11.5)	17.7 (13.2)
North America (U.S.A.)	37.5 (33.8)	34.5 (30.7)	38.1 (33.3)	35.7 (31.6)	35.5 (32.0)	39.3 (35.4)	40.4 (36.8)	37.2 (34.4)	38.2 (35.0)	41.0 (37.5)
Latin America	8.7	7.7	6.8	8.2	8.0	7.2	7.7	6.9	6.8	6.3
Africa	5.1	5.2	4.0	3.9	3.4	3.5	3.8	4.1	3.7	2.9
Oceania Other	6.6 0.		^{9.6} 0.2	^{8.8} 0.1	8.5 0.1	^{9.3} 0.1	8.7 0.1	8.4 0.2	8.5 0.1	8.5 0.1
	2007 Year	08	09	10	11	12	13	14	15	16

MOTOR VEHICLE EXPORTS BY DESTINATION & BY VEHICLE TYPE IN 2016

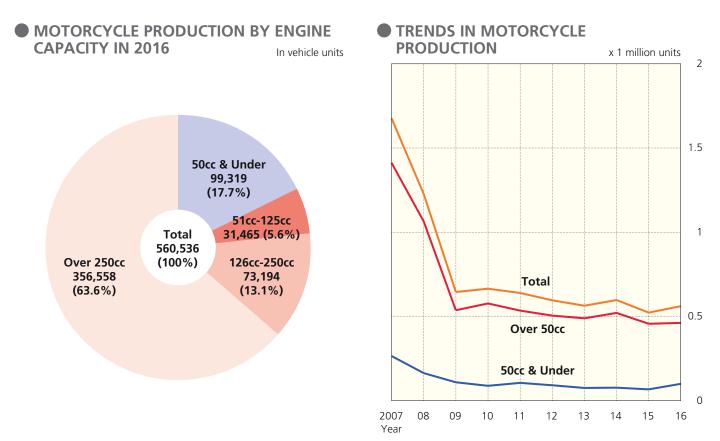
In vehicle units

D	estination		Passeng	er Cars			Tru	cks		Buses	Total
		Standard	Small	Mini	Subtotal	Standard	Small	Mini	Subtotal		
Asia	South Korea China Taiwan Hong Kong Thailand Singapore Malaysia Philippines Indonesia Pakistan Other	19,245 191,678 77,624 9,888 1,678 23,011 17,259 15,304 12,710 108 43,246	0 3,002 2,631 3,396 9 3,969 2,340 1,055 1,200 4,005 1,131	0 0 200 0 0 0 2 0 206	19,245 194,680 80,255 13,484 1,687 26,980 19,599 16,359 13,912 4,113 44,583	0 123 8,015 6,524 5,974 9,884 13,192 9,031 12,185 7,300 15,697	0 198 248 0 2,052 2,676 1,875 0 156 4,470	0 0 0 0 0 0 0 0 0 0 0	0 123 8,213 6,772 5,974 11,936 15,868 10,906 12,185 7,456 20,167	1 456 1,111 1,124 8,514 3,465 28,284 3,423 1,777 3,943	19,246 195,259 89,579 21,380 16,175 39,275 38,932 55,549 29,520 13,346 68,693
	Subtotal	411,751	22,738	408	434,897	87,925	11,675	0	99,600	52,457	586,954
Middle East	Bahrain Saudi Arabia Kuwait Oman Israel United Arab Emirates Qatar Other	14,310 61,608 34,617 45,172 41,134 106,959 23,881 48,476	11 50 69 199 4,301 700 58 520	0 0 0 0 0 0 0 0 0	14,321 61,658 34,686 45,371 45,435 107,659 23,939 48,996	2,135 31,364 2,092 16,072 1,620 17,248 1,882 11,996	150 900 430 1,277 0 2,995 859 764	0 0 0 0 0 0 0 0	2,285 32,264 2,522 17,349 1,620 20,243 2,741 12,760	1,593 2,518 1,684 5,925 0 9,268 3,216 2,336	18,199 96,440 38,892 68,645 47,055 137,170 29,896 64,092
F	Subtotal	376,157	5,908	0	382,065	84,409	7,375	0	91,784	26,540	500,389
Europe	Sweden Denmark UK Netherlands Belgium France E Germany U Spain Italy Finland Poland Austria	26,860 6,529 104,945 13,506 19,007 61,487 110,935 51,022 46,552 9,055 21,208 14,436	304 625 45,490 1,226 1,313 3,581 10,131 1,062 6,802 37 217 1,604	1 0 5 0 4,283 60 0 0 0 0 0 0 0 0 0	27,165 7,154 150,435 14,737 20,320 69,351 121,126 52,084 53,354 9,092 21,425 16,040	0 0 18 0 0 0 3,708 9 20 68		0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 18 0 0 3,708 9 20 68	0 0 0 0 0 0 0 0 0 0 64	27,165 7,154 150,435 14,755 20,320 69,351 121,126 52,084 57,062 9,101 21,445 16,172
	Greece Other Subtotal Norway Switzerland	516 40,259 526,317 23,623 18,788	589 1,472 74,453 444 923	0 10 4,359 425 71	1,105 41,741 605,129 24,492 19,782	0 2,539 6,362 455 0	0 4 4 0 0	0 0 0 0 0	0 2,543 6,366 455 0	0 0 64 0 0	1,105 44,284 611,559 24,947 19,782
	Russia Turkey Ukraine Other	132,651 7,320 10,691 2,180	169 1,164 53 345	0 0 0 2	132,820 8,484 10,744 2,527	3,477 3,938 234 0	144 0 0 0	0 0 0 0	3,621 3,938 234 0	275 0 0 0	136,716 12,422 10,978 2,527
NI /1	Subtotal	721,570	77,551	4,857	803,978	14,466	148	0	14,614	339	818,931
North America	Canada U.S.A. Subtotal	157,397 1,629,748 1,787,145	3,022 78,371 81,393	85 15 100	160,504 1,708,134 1,868,638	2,929 26,828 29,757	0 518 518	0 0 0	2,929 27,346 30,275	0 0	163,433 1,735,480 1,898,913
Latin America	Mexico Puerto Rico Colombia Ecuador Peru Chile Brazil Other Subtotal	86,995 6,542 14,513 4,236 12,634 33,486 7,171 34,099 199,676	10,383 527 701 279 755 5,481 0 4,346 22,472	0 0 0 1 0 0 0 0 0 0 0 0	97,378 7,069 15,214 4,516 13,389 38,967 7,171 38,445 222,149	18,585 4 10,374 249 2,787 3,469 0 11,971 47,439	670 0 257 182 751 633 0 1,975 4,468	0 0 0 0 0 0 0 0 0 0 0 0	19,255 4 10,631 431 3,538 4,102 0 13,946 51,907	8,495 0 1,088 896 2,070 329 0 7,444 20,322	125,128 7,073 26,933 5,843 18,997 43,398 7,171 59,835 294,378
Africa	Algeria	1,647	0	0	1,647	321	180	0	51,507	0	2,148
	Egypt Nigeria Kenya South Africa Other Subtotal	14,835 352 209 25,496 12,527 55,066	0 0 7 1,706 645 2,358	0 0 0 0 0 0	14,835 352 216 27,202 13,172 57,424	9,145 334 4,933 12,512 8,148 35,393	14,016 0 444 1,247 814 16,701	0 0 0 0 0	23,161 334 5,377 13,759 8,962 52,094	2,761 174 100 17,047 4,897 24,979	40,757 860 5,693 58,008 27,031 134,497
Oceania	Australia New Zealand Other	285,888 27,124 5,184	21,030 7,335 416	0 1 0	306,918 34,460 5,600	30,281 4,939 2,421	2,774 320 159	0 0 0	33,055 5,259 2,580	2,607 650 2,328	342,580 40,369 10,508
Other	Subtotal	318,196	28,781	1	346,978	37,641	3,253	0	40,894	5,585	393,457
Other Grand To	tals	2,362 3,871,923	5 241,206	0 5,367	2,367 4,118,496	2,791 339,821	0 44,138	0	2,791 383,959 Japan Automol	1,420 131,642	6,578 4,634,097

Source: Japan Automobile Manufacturers Association

Motorcycle Production Shows First Increase in 2 Years

Overall domestic motorcycle production in 2016 rose 7.3% over the previous year to 561,000 units. Class 1 motordriven cycles (50cc and under) surged 49.5% to 99,000 units, Class 2 motor-driven cycles (51cc to 125cc) grew 1.9% to 31,000 units, and small-sized motorcycles (over 250cc) expanded 2.4% to 357,000 units, whereas mini-sized motorcycles (126cc to 250cc) fell 4.9% to 73,000 units. The combined total for larger motorcycles (all those over 50cc) climbed 1.2% to 461,000 units.



MOTORCYCLE PRODUCTION

			Over	50cc			
Year	Motor-Driven Cycles Class 1 (50cc & Under)	Motor-Driven Cycles Class 2 (51cc-125cc)	Mini-Sized Motorcycles (126cc-250cc)	Small-Sized Motorcycles (Over 250cc)	Subtotal	Total	Chg. (%)
1970	895,599	1,407,205	259,145	385,723	2,052,073	2,947,672	114.4
1975	1,030,822	1,887,701	331,733	552,291	2,771,725	3,802,547	84.3
1980	2,493,910	2,181,206	660,831	1,098,577	3,940,614	6,434,524	143.8
1985	2,014,850	1,373,423	469,728	678,346	2,521,497	4,536,347	112.7
1990	1,343,220	686,734	270,304	506,637	1,463,675	2,806,895	100.4
1995	951,803	1,038,938	217,738	544,760	1,801,436	2,753,239	101.0
2000	636,546	630,221	297,433	851,191	1,778,845	2,415,391	107.3
2005	298,549	260,343	279,274	953,419	1,493,036	1,791,585	103.0
2007	264,336	178,827	269,689	963,245	1,411,761	1,676,097	94.6
2008	162,928	128,381	192,863	742,667	1,063,911	1,226,839	73.2
2009	108,417	57,424	125,384	353,676	536,484	644,901	52.6
2010	87,513	80,630	108,950	387,082	576,662	664,175	103.0
2011	104,936	64,507	104,636	365,108	534,251	639,187	96.2
2012	90,886	39,569	91,925	373,093	504,587	595,473	93.2
2013	74,940	27,670	88,108	372,591	488,369	563,309	94.6
2014	76,569	31,529	93,536	395,424	520,489	597,058	106.0
2015	66,438	30,886	76,945	348,125	455,956	522,394	87.5
2016	99,319	31,465	73,194	356,558	461,217	560,536	107.3

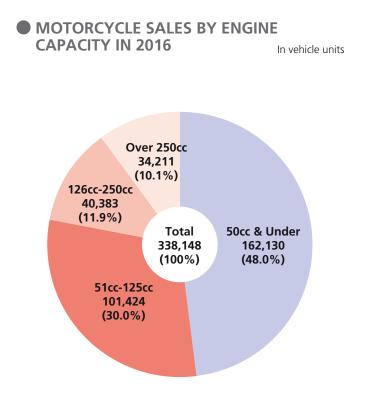
Notes: 1. KD sets have been excluded since 1979; they represent less than 60% of the cost of compositional components per vehicle and have been treated as components since 1988. 2. "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100).

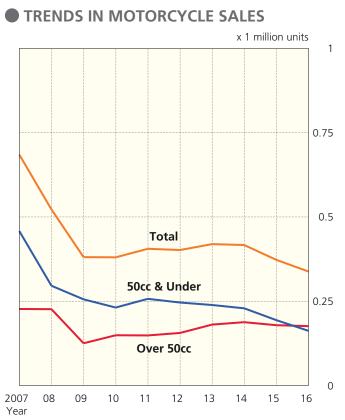
Source: Japan Automobile Manufacturers Association

In vehicle units

Motorcycle Sales Total 338,148 Units

Domestic motorcycle sales (defined here as ex-factory shipments to domestic dealers, not as new registrations) in 2016 totalled 338,000 units, down 9.3% from the previous year. By engine capacity, whereas sales of Class 2 motordriven cycles (51cc to 125cc) increased 6.9% to 101,000 units, sales of Class 1 motor-driven cycles (50cc and under), mini-sized motorcycles (126cc to 250cc), and small-sized motorcycles (over 250cc) dropped 16.4% to 162,000 units, 16.8% to 40,000 units, and 3.6% to 34,000 units, respectively. Overall sales of motorcycles with engine capacity over 50cc thus totalled 176,000 units, a decrease of 1.6% from 2015.





MOTORCYCLE SALES (SHIPMENTS TO DOMESTIC DEALERS)

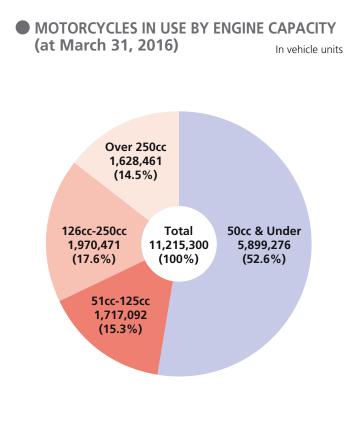
			Over				
Year	Motor-Driven Cycles Class 1 (50cc & Under)	Motor-Driven Cycles Class 2 (51cc-125cc)	Mini-Sized Motorcycles (126cc-250cc)	Small-Sized Motorcycles (Over 250cc)	Subtotal	Total	Chg. (%)
1980	1,978,426	200,238	88,188	103,184	391,610	2,370,036	122.7
1985	1,646,115	130,574	173,887	145,674	450,135	2,096,250	102.6
1990	1,213,512	169,618	158,882	76,921	405,421	1,618,933	97.6
1995	884,718	138,115	98,833	91,186	328,134	1,212,852	101.6
2000	558,459	102,116	72,886	46,416	221,418	779,877	93.2
2005	470,922	88,747	99,658	47,186	235,591	706,513	100.9
2007	458,023	100,720	86,081	40,120	226,921	684,944	97.8
2008	295,908	120,990	55,674	49,743	226,407	522,315	76.3
2009	255,561	65,888	37,180	22,148	125,216	380,777	72.9
2010	231,247	96,368	27,275	25,352	148,995	380,242	99.9
2011	257,045	95,702	31,767	21,019	148,488	405,533	106.7
2012	246,095	90,291	39,707	25,802	155,800	401,895	99.1
2013	238,786	100,947	47,788	31,877	180,612	419,398	104.4
2014	228,918	96,249	53,072	38,484	187,805	416,723	99.4
2015	193,842	94,851	48,515	35,488	178,854	372,696	89.4
2016	162,130	101,424	40,383	34,211	176,018	338,148	90.7

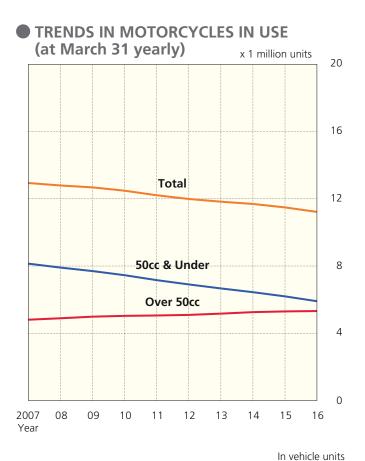
Note: "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100).

In vehicle units

11.2 Million Motorcycles in Use

At March 31, 2016, motorcycles in use in Japan totalled 11.22 million units, down 2.3% from the previous year. By engine capacity, Class 1 motor-driven cycles, accounting for 52.6% of all motorcycles in use, dropped 4.7% to 5.90 million units and mini-sized motorcycles slipped 0.4% to 1.97 million units in 2016, whereas Class 2 motor-driven cycles and small-sized motorcycles in use rose 0.8% and 1.1%, to 1.72 million and 1.63 million units respectively. Thus, motorcycles over 50cc in use increased 0.4%, to a total of 5.32 million units.





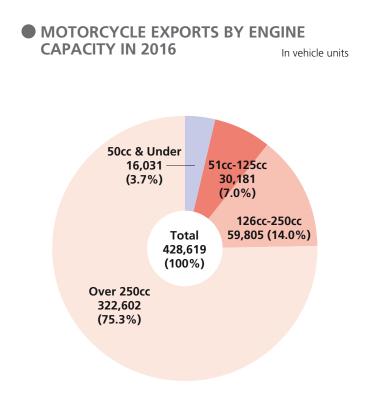
MOTORCYCLES IN USE (at March 31 yearly)

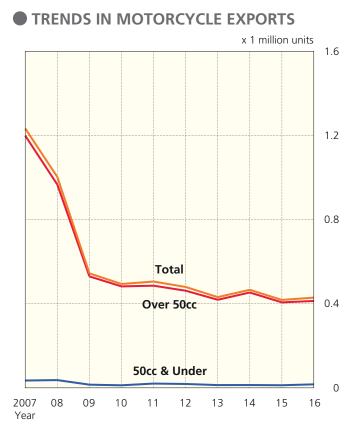
			Over				
Year	Motor-Driven Cycles Class 1 (50cc & Under)	Motor-Driven Cycles Class 2 (51cc-125cc)	Mini-Sized Motorcycles (126cc-250cc)	Small-Sized Motorcycles (Over 250cc)	Subtotal	Total	Chg. (%)
1970	3,727,426	4,431,745	583,316	109,771	5,124,832	8,852,258	100.5
1975	4,851,140	3,132,818	492,307	276,715	3,901,840	8,752,980	101.9
1980	8,794,335	2,281,006	506,567	383,639	3,171,212	11,965,547	109.8
1985	14,609,399	1,747,957	1,047,426	775,627	3,571,010	18,180,409	104.8
1990	13,539,269	1,517,228	1,669,771	1,045,519	4,232,518	17,771,787	97.6
1995	11,165,390	1,421,031	1,823,446	1,177,229	4,421,706	15,587,096	98.0
2000	9,643,487	1,337,395	1,704,522	1,288,399	4,330,316	13,973,803	98.0
2005	8,566,613	1,353,732	1,857,439	1,397,392	4,608,563	13,175,176	99.3
2007	8,134,692	1,397,085	1,950,512	1,452,893	4,800,490	12,935,182	99.0
2008	7,902,051	1,429,738	1,976,829	1,478,724	4,885,291	12,787,342	98.9
2009	7,694,009	1,479,588	1,996,311	1,505,304	4,981,203	12,675,212	99.1
2010	7,448,862	1,511,440	1,992,939	1,524,176	5,028,555	12,477,417	98.4
2011	7,154,455	1,540,667	1,975,623	1,535,181	5,051,471	12,205,926	97.8
2012	6,899,459	1,582,925	1,959,845	1,542,856	5,085,626	11,985,085	98.2
2013	6,661,807	1,626,094	1,969,187	1,566,341	5,161,622	11,823,429	98.7
2014	6,438,002	1,674,884	1,980,411	1,595,335	5,250,630	11,688,632	98.9
2015	6,188,710	1,704,083	1,978,462	1,611,089	5,293,634	11,482,344	98.2
2016	5,899,276	1,717,092	1,970,471	1,628,461	5,316,024	11,215,300	97.7

Notes: 1. Motor-driven cycle data is as at April 1, and since 2006 motorcycles with engine capacity of 125cc and under whose owners fail to pay the mandatory motorcycle ownership tax are not included in this data. 2. "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100). Sources: Ministry of Land, Infrastructure, Transport and Tourism; since 2006 (only for the 125cc-and-under categories), Ministry of Internal Affairs and Communications

Overall Motorcycle Exports Increase for First Time in 2 Years

Motorcycle exports in 2016 grew 2.6% from the previous year to 429,000 units. By engine capacity, exports of Class 1 motor-driven cycles surged 36.3% to 16,000 units and small-sized motorcycles rose 2.3% to 323,000 units, whereas Class 2 motor-driven cycles and mini-sized motorcycles fell 2.1% and 0.1%, to 30,000 units and 60,000 units respectively.





MOTORCYCLE EXPORTS

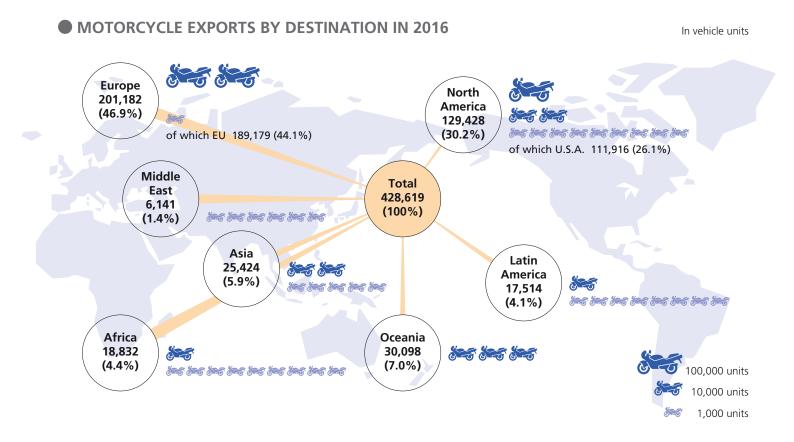
			Over				
Year	Motor-Driven Cycles Class 1 (50cc & Under)	Motor-Driven Cycles Class 2 (51cc-125cc)	Mini-Sized Motorcycles (126cc-250cc)	Small-Sized Motorcycles (Over 250cc)	Subtotal	Total	Chg. (%)
1970	326,815	914,325	187,185	309,277	1,410,787	1,737,602	133.8
1975	288,843	1,546,170	328,313	527,344	2,401,827	2,690,670	83.0
1980	501,027	1,907,481	548,306	972,226	3,428,013	3,929,040	144.0
1985	369,167	1,350,412	296,865	525,038	2,172,315	2,541,482	119.7
1990	147,301	507,840	117,222	411,381	1,036,443	1,183,744	107.3
1995	61,627	691,433	129,961	442,689	1,264,083	1,325,710	94.2
2000	82,038	549,040	204,591	805,508	1,559,139	1,641,177	116.1
2005	57,860	197,378	177,824	899,161	1,274,363	1,332,223	100.4
2007	34,192	134,570	177,673	886,361	1,198,604	1,232,796	92.4
2008	36,234	95,114	149,530	721,309	965,953	1,002,187	81.3
2009	14,493	44,708	101,298	383,380	529,386	543,879	54.3
2010	11,522	48,976	85,506	347,460	481,942	493,464	90.7
2011	19,745	45,853	83,594	355,793	485,240	504,985	102.3
2012	17,794	35,579	69,963	355,827	461,369	479,163	94.9
2013	12,560	27,676	64,566	326,095	418,337	430,897	89.9
2014	12,778	29,771	63,891	359,144	452,806	465,584	108.0
2015	11,761	30,823	59,851	315,214	405,888	417,649	89.7
2016	16,031	30,181	59,805	322,602	412,588	428,619	102.6

Notes: 1. Figures represent ex-factory export shipments of motorcycles manufactured in Japan. 2. Class 2 motor-driven cycles include three-wheeled motor-driven cycles. 3. KD sets have been excluded since 1979; they represent less than 60% of the cost of compositional components per vehicle and have been treated as components since 1988. 4. "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100). Source: Japan Automobile Manufacturers Association

In vehicle units

An Increase in Motorcycle Exports to the Middle East and Europe

Compared to the previous year, motorcycle exports in 2016 grew 19.6% to the Middle East and 17.8% to Europe, but declined 37.1% to Latin America, 13.9% to Asia, 8.4% to Africa, 3.1% to North America, and 0.4% to Oceania.



MOTORCYCLE EXPORT TRENDS BY DESTINATION

In %

Asia		7.4	5.0	9.6	8.3	7.7	4.9	4.5	5.7	7.1	5.9
Middle Ea	st	_0:6 _	=0.8		0.8	0:8		0:9	0:8	1.2	1.4
Europe	(EU)	37.7 (36.5)	36.9 (35.6)	38.8 (37.1)	46.2 (44.4)	34.5 (33.1)	34.1 (31.9)	34.3 (31.7)	37.5 (34.6)	40.9 (38.1)	46.9 (44.1)
North America	(U.S.A.)	40.4 (36.9)	40.9 (37.2)	33.6 (29.5)	21.5 (17.8) 7.9	35.5 (32.6)	38.4 (34.8)	41.4 (36.4)	39.4 (34.9)	32.0 (27.6)	30.2 (26.1)
Latin Ame	erica	5.0	6.3	4.6 4.5	5.2	9.1 4.2	10.1 4.0	7.9 3.6	5.8 3.6	6.7 4.9	4.1 4.4
Africa		3.1	3.4 6.7	8.2	10.1	8.2	7.3	7.4	7.2	7.2	7.0
Oceania		5.8	0.7	0.2		0.2	7.5	7.4	1.2	1.2	7.0
		2007 Year	08	09	10	11	12	13	14	15	16

MOTORCYCLE EXPORTS BY DESTINATION & BY ENGINE CAPACITY IN 2016

In vehicle units

		Mater Driver					
Des	tination	Motor-Driven Cycles Class 1 (50cc & Under)	Motor-Driven Cycles Class 2 (51cc-125cc)	Mini-Sized Motorcycles (126cc-250cc)	Small-Sized Motorcycles (Over 250cc)	Subtotal	Total
Asia	South Korea China Taiwan Hong Kong Thailand Singapore Malaysia Philippines Indonesia Other	9 0 12 0 0 0 0 0 0 27	6 0 620 10 50 135 6 0 123 36	12 0 63 291 259 11 5 1,735 265	2,537 969 3,353 2,231 3,954 2,750 3,634 877 310 1,134	2,555 969 3,973 2,304 4,295 3,144 3,651 882 2,168 1,435	2,564 969 3,973 2,316 4,295 3,144 3,651 882 2,168 1,462
Middle East	Subtotal Saudi Arabia Israel United Arab Emirates Other	48 0 0 0 21	986 22 162 615 0	2,641 2 438 659 56	21,749 252 2,232 818 864	25,376 276 2,832 2,092 920	25,424 276 2,832 2,092 941
Europe	Subtotal Sweden Denmark UK Netherlands Belgium France Germany E Portugal U Spain Italy Finland Poland Hungary Greece Slovenia Czech Republic Other Subtotal Norway Switzerland	21 0 0 0 0 924 375 0 180 132 27 0 0 0 6 42 0 0 0 1,686 0 30	799 0 18 440 787 30 3,498 786 28 509 224 32 0 0 0 0 30 30 32 0 8 8 509 224 32 0 0 0 30 30 32 30 44	1,155 58 54 884 2,556 40 2,379 2,222 20 665 2,713 154 46 81 58 110 15 77 12,132 74 263	4,166 723 612 9,581 18,791 602 60,699 30,781 1,375 12,326 27,350 233 554 1,276 1,366 988 866 816 168,939 604 6,472	6,120 781 684 10,905 22,134 672 66,576 33,789 1,423 13,500 30,287 419 600 1,357 1,454 1,130 881 901 187,493 708 6,779	6,141 781 684 10,905 22,134 672 67,500 34,164 1,423 13,680 30,419 446 600 1,357 1,460 1,172 881 901 189,179 708 6,809
	Turkey Russia Other Subtotal	0 0 0 1,716	42 26 0 6,564	92 45 6 12,612	3,671 461 143 180,290	3,805 532 149 199,466	3,805 532 149 201,182
North America	Canada U.S.A. Subtotal	1,252 10,061 11,313	1,502 7,357 8,859	3,288 22,040 25,328	11,470 72,458 83,928	16,260 101,855 118,115	17,512 111,916 129,428
Latin America	Mexico Nicaragua Panama Colombia Peru Chile Brazil Argentina Other Subtotal	99 0 0 0 9 33 0 18 44 203	30 0 96 64 63 130 44 20 133 523	291 779 131 585 561 726 183 176 779 4,211	1,941 2 316 2,202 86 1,487 4,848 783 912 12,577	2,262 781 543 2,851 653 2,343 5,075 979 1,824 17,311	2,361 781 543 2,851 662 2,376 5,075 997 1,868 17,514
Africa	Guinea Togo Mali Niger Dem Rep Congo Ethiopia Kenya Uganda South Africa Other Subtotal	0 0 0 0 0 0 0 54 15 69	83 1,628 1,322 1,525 1,086 0 281 686 481 2,161 9,253	232 450 588 240 105 3,602 239 14 1,080 662 7,212	0 0 60 9 0 0 17 0 1,341 871 2,298	315 2,078 1,970 1,774 1,191 3,602 537 700 2,902 3,694 18,763	315 2,078 1,970 1,774 1,191 3,602 537 700 2,956 3,709 18,832
Oceania	Australia New Zealand Other	2,202 453 6	2,443 726 28	5,270 1,250 126	15,853 1,665 76	23,566 3,641 230	25,768 4,094 236
Grand Tot	Subtotal als	2,661 16,031	3,197 30,181	6,646 59,805	17,594 322,602	27,437 412,588	30,098 428,619

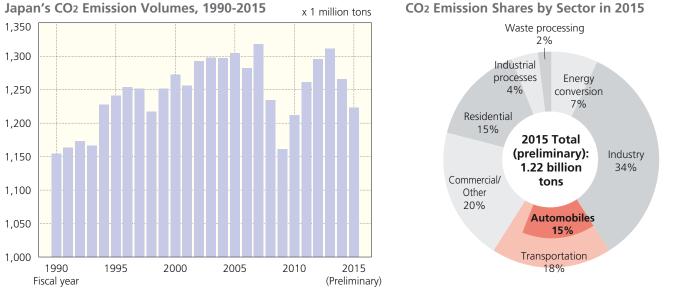
Source: Japan Automobile Manufacturers Association

Climate Change and CO₂ Emissions Reduction: The Response of the Transport Sector

In 2015 Japan's CO₂ emissions totalled 1.22 billion tons (preliminary figure), of which the transportation sector accounted for 18%. Since peaking in 2001 following a decade of growth, CO₂ emission volumes in Japan's transport sector have steadily declined, owing largely to increased fuel efficiency in passenger cars and greater efficiency in goods distribution, although they have not yet reached the level recorded in 1990. The automobile industry will continue to vigorously promote CO₂ emissions reduction in road transport by further improving vehicle fuel efficiency and expanding the market supply of next-generation vehicles.

CO2 EMISSIONS IN JAPAN

The transportation sector accounts for 18% of Japan's total CO2 emissions, which in 2015 amounted to 1.22 billion tons (preliminary figure).

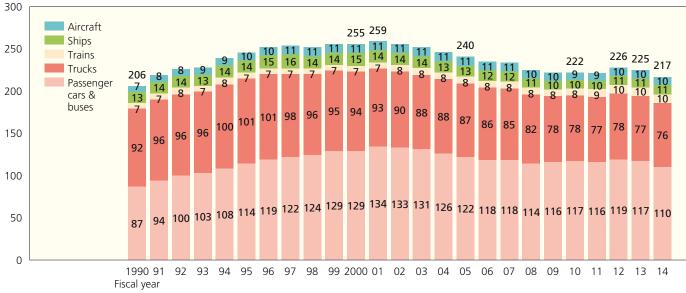


Source: Ministry of the Environment

x 1 million tons

TRENDS IN CO2 EMISSION VOLUMES IN JAPAN'S TRANSPORT SECTOR, BY MODE

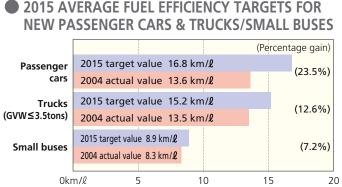
Motor vehicle-emitted CO₂ accounts for about 90% of the totality of CO₂ emitted by Japan's transport sector. CO₂ emissions from road transportation in Japan have seen a significant decrease since transport-sector emissions peaked in 2001.



Source: Ministry of the Environment

CO2 Emissions Reduction: Improving Vehicle Fuel Efficiency

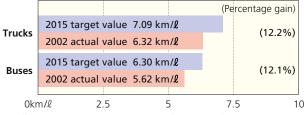
For gasoline-powered passenger cars and trucks weighing 3.5 tons or less, fuel efficiency targets for 2015 were formulated in 2007, applying "top runner" criteria whereby the target value for a given vehicle weight category is established based on the leading fuel efficiency performance to date for that weight category. The 2015 target for passenger cars signifies a nearly 24% increase in average fuel efficiency compared to the 2004 level. For heavy-duty vehicles (trucks and buses with GVW>3.5 tons), fuel efficiency targets-the first in the world-were introduced in 2006 for 2015. Compliance here means a more than 12% increase in average fuel efficiency compared to the 2002 level. As a result of JAMA members' continuous efforts to increase the fuel efficiency of conventional vehicles and expand the next-generation vehicle supply, an even more stringent fuel efficiency target introduced for passenger cars for 2020 has already been achieved. For small trucks weighing 3.5 tons or less, a fuel efficiency target for 2022 was introduced in July 2015.



Fuel efficiency here is JC08 test cycle-based (see page 67), and targets were Note[.] established assuming the same shipment volume ratios by vehicle weight category for 2015 as those recorded in 2004

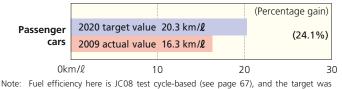
Sources: Ministry of Economy, Trade and Industry: Ministry of Land, Infrastructure, Transport and Tourism

2015 AVERAGE FUEL EFFICIENCY TARGETS FOR NEW HEAVY-DUTY VEHICLES (GVW>3.5t)



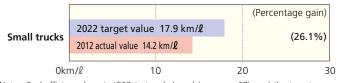
Fuel efficiency here is JE05 test cycle-based (see page 67), and targets were Note: established assuming the same shipment volume ratios by vehicle weight category for 2015 as those recorded in 2002 Sources: Ministry of Economy, Trade and Industry; Ministry of Land, Infrastructure, Transport and Tourism

2020 AVERAGE FUEL EFFICIENCY TARGET FOR **NEW PASSENGER CARS**



established assuming the same shipment volume ratios by vehicle weight category for 2020 as those recorded in 2009. Sources: Ministry of Economy, Trade and Industry; Ministry of Land, Infrastructure, Transport and Tourism

2022 AVERAGE FUEL EFFICIENCY TARGET FOR NEW SMALL TRUCKS (GVW≤3.5t)



Note: Fuel efficiency here is JC08 test cycle-based (see page 67), and the target was established assuming the same shipment volume ratios by vehicle weight category for 2022 as those recorded in 2012

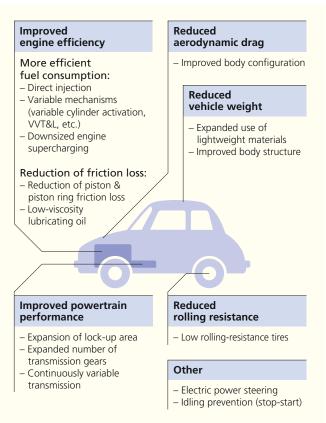


AVERAGE FUEL EFFICIENCY OF DOMESTIC NEW **GASOLINE-POWERED PASSENGER CARS** In km/0



Note: Figures here are JC08 test cycle-based (see page 67) Source: Japan Automobile Manufacturers Association

VEHICLE TECHNOLOGIES FOR INCREASED FUEL EFFICIENCY



In-Use Status of Next-Generation Vehicles

Beginning in 2009, when the government's tax incentive/subsidy programs for the purchase of eco-friendly vehicles were first introduced, the share of (so-called in Japan) next-generation vehicles—including hybrid, plug-in hybrid, electric, fuel cell, clean diesel, and other new-energy vehicles—in total passenger car sales surged. In 2016 next-generation vehicles accounted for nearly 35% of new passenger car registrations. The more widespread use of these vehicles requires not only further advances in vehicle and related technologies, but also, among other government initiatives, the establishment of the necessary fuel/energy supply infrastructures and the continued provision of purchasing incentives.

NEXT-GENERATION PASSENGER CAR NEW REGISTRATIONS, 2008-2016

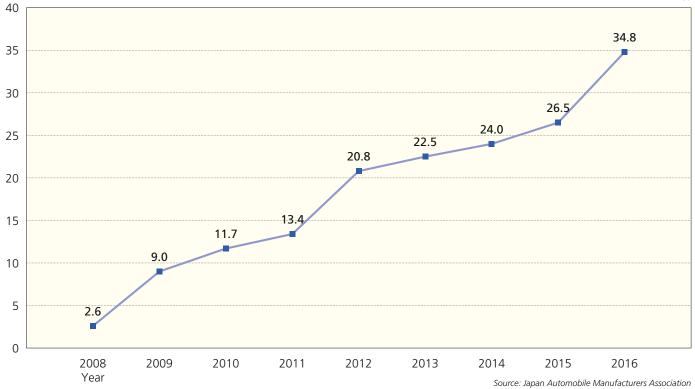
In vehicle units

Year	2008	2009	2010	2011	2012	2013	2014	2015	2016
Hybrid vehicles	108,518	347,999	481,221	451,308	887,863	921,045	1,016,757	937,575	1,275,560
Plug-in hybrid vehicles	0	0	0	15	10,968	14,122	16,178	14,188	9,390
Electric vehicles	0	1,078	2,442	12,607	13,469	14,756	16,110	10,467	15,299
Fuel cell vehicles	0	0	0	0	0	0	7	411	1,055
Clean diesel vehicles	0	4,364	8,927	8,797	40,201	75,430	78,822	153,768	143,468
Total	108,518	353,441	492,590	472,727	952,501	1,025,353	1,127,874	1,116,409	1,444,772

Note: "Hybrid vehicles" includes hybrid minicars as of 2016

Source: Japan Automobile Manufacturers Association

TRENDS IN NEXT-GENERATION VEHICLE SHARE IN NEW PASSENGER CAR REGISTRATIONS In %



Promoting Fuel-Conserving Ecodriving

Individual drivers can increase fuel efficiency and thus help reduce CO₂ emissions by improving their driving habits. JAMA has therefore been conducting an ongoing public-awareness campaign, in collaboration with the government and industry partners, to promote sound, fuel-conserving ecodriving practices, urging drivers to adopt the ten smart tips listed below. While the already widespread use of digital tachographs in truck fleet operations in Japan continues to expand, automakers are equipping more and more passenger cars not only with fuel efficiency gauges and systems for real-time on-screen displays of fuel efficiency performance, but also with idling-prevention (stopstart) systems and "eco-mode" buttons that activate fuel efficiency-promoting functions.

TEN TIPS FOR FUEL-CONSERVING ECODRIVING as promoted in Japan



1. Accelerate gently.

Think "eco-start" when vou accelerate-increasing your speed at a relaxed pace, to 20km/h in 5 seconds, boosts fuel efficiency by 10%. Gentle acceleration also contributes to safer driving.



2. Maintain a steady speed and keep your distance.

Maintain a suitably steady speed for safe and fuel-efficient driving. Tailgating leads to acceleration/deceleration, unnecessarv resulting in 2% and 6% lower fuel efficiency in urban and suburban areas, respectively.



3. Slow down by releasing the accelerator.

Releasing the accelerator when recognizing the need to slow down (e.g., at changing traffic lights) stops the fuel supply, resulting in a 2% gain in fuel efficiency. Use your engine's braking function whenever appropriate, including on downhill descents.



4. Make appropriate use of your air conditioner.

The AC function is for cooling and dehumidifying only, so don't leave your AC on when you're heating the cabin. When you do use it, be sure not to set it too low. (Continuous use of the AC functioning at 25°C when the outdoor temperature is 25°C results in a fuel efficiency loss of 12%.)



5. Don't warm up or idle your engine.

Today's passenger cars don't require warming up, so start off slowly right after turning on the ignition. When waiting or loading/unloading, make a habit of turning your engine off instead of letting it idle. Ten minutes of engine idling (with the AC off) wastes 130cc of fuel. (See notes below.)



6. Plan your itinerary to avoid congested routes.

Plan the route to your destination using a map or your navigation system before starting off. Check traffic information to avoid congested areas and save time and fuel. Ten minutes of unnecessary driving in a one-hour trip results in a 17% drop in fuel efficiency.



7. Check your tire pressure regularly.

Driving on tires whose air pressure is 50kPa (0.5kg/cm²) lower than it should be decreases fuel efficiency by 2% in urban areas and 4% in suburban areas. Timely replacement of engine oil and items such as oil filters and air cleaner elements also contributes to increased fuel efficiency.



8. Reduce your load.

Onboard weight is a key factor in fuel efficiency performance. Driving with 100kg of unnecessary onboard weight causes a 3% loss in fuel efficiency. Another factor is your vehicle's aerodynamic drag, which you can reduce by removing exterior rack equipment when not in use



9. Respect parking rules and regulations.

Don't leave your vehicle where it blocks traffic. Illegal or imprudent on-street parking causes traffic congestion which leads to increased emissions and a greater risk of accident. Roads that are not encumbered by illegally or improperly parked vehicles promote smoother traffic flow and higher fuel efficiency.



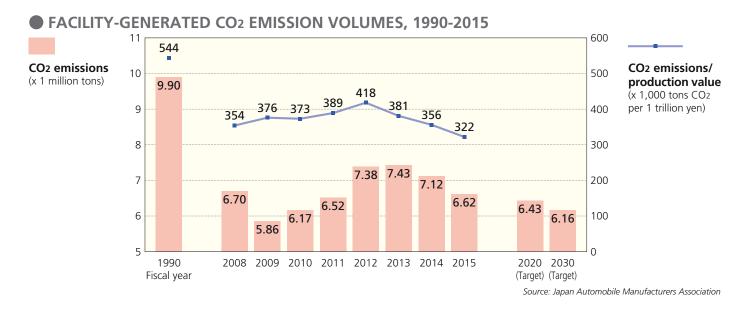
10. Check the readings on your fuel efficiency-monitoring equipment.

Be aware of your vehicle's fuel efficiency performance by consulting onboard equipment that monitors it.

Notes: 1. Warming up a vehicle engine is necessary only in extremely cold climates (-20°C or colder) or after long periods of non-use. 2. For drivers stopping engine idling manually, i.e. by turning their vehicle's ignition off and then back on again, caution is advised as follows (but does not apply to drivers of vehicles equipped with idling-prevention systems): 1) Stepping on the brake pedal repeatedly during engine shut-down may diminish braking power; 2) Drivers not accustomed to shutting down their engines and starting them up again may experience slow or faulty restarts; 3) Excessive shutting down and restarting may drain the batteries, resulting in engine start-up failure; 4) Do not use this method when stopped at the head of a line or on a gradient, because turn signals and windshield wipers, as well as airbags and other safety features, will not function during engine shut-down.

CO2 Reductions at Manufacturers' Facilities

Japan's automakers, together with the member companies of the Japan Auto-Body Industries Association (JABIA), have for years taken measures to reduce energy consumption and otherwise cut CO₂ emissions at their production plants. Having more recently expanded their voluntary CO₂ reduction activities to also include administrative and research facilities, their combined facility-emitted CO₂ in 2015 totalled 6.62 million tons, down 500,000 tons from the previous year. In line with new targets set in 2016, JAMA and JABIA members now aim to reduce their combined facility-emitted CO₂ to 6.43 million tons (a 35% reduction from the 1990 level) by 2020 and to 6.16 million tons (a 38% reduction from 1990) by 2030.



Automobiles and Society

Attention to the Environment ② Hazardous Substances

Voluntary Initiatives to Reduce the Use of Hazardous Substances in Motor Vehicles

JAMA member manufacturers have, on a voluntary basis, eliminated the use of four so-called substances of concern (SOCs)—lead, mercury, hexavalent chromium and cadmium—in new vehicles to lessen their environmental impact, particularly when they are dismantled and processed at the end of their service life. Separate restrictions on the use of SOCs have been established for motorcycles.

RESTRICTIONS ON THE USE OF SUBSTANCES OF CONCERN IN NEW VEHICLES & COMPLIANCE STATUS

SOC	Restrictions	Compliance Status				
Lead	As of January 2006, a 90% decrease or more from the 1996 level of 1,850 grams (i.e., a maximum permissible level of 185 grams); for large commercial vehicles including buses, a 75% decrease or more from the 1996 level (or a maximum level of 462.5 grams). Batteries are exempt.	All models have complied since January 2006.				
Mercury	As of January 2005, banned except for trace amounts in safety-related components such as: - Instrument panel displays - Liquid crystal displays in navigation devices - Discharge lamps - Fluorescent cabin lamps	All models have complied since January 2003. Instrument panel displays are now mercury-free in all models, as are fluorescent cabin lamps in passenger cars. Navigation-device liquid crystal displays and discharge lamps will be mercury-free in the near future.				
Hexavalent chromium	Banned as of January 2008.	All models have complied since January 2008.				
Cadmium	Banned as of January 2007.	All models have complied since January 2006.				

A Voluntary Approach to Reducing Vehicle Cabin VOCs

New-model passenger cars marketed in and after 2007 and new-model commercial vehicles sold in and after 2008 have met the target values established by Japan's Ministry of Health, Labor and Welfare for indoor concentration levels of 13 volatile organic compounds (VOCs). In July 2012, ISO 12219-1 was established as the global standard for restricting the use of in-cabin VOCs in passenger cars. Accordingly, JAMA's previously established VOC test procedure for passenger cars was replaced by the ISO procedure. For trucks and buses not covered by the ISO standard, however, JAMA test methods for measuring in-cabin VOC concentration levels remain in application. Meanwhile, automakers are working to lower in-cabin VOC concentration levels even further. This voluntary initiative applies only to vehicles that are manufactured and sold in Japan.

• COMPARISON OF JAMA AND ISO IN-CABIN VOC TEST PROCEDURES

	JAMA Procedure	ISO Procedure (For passenger cars)		
Heating method	Radiation lamp heating from above the cabin (No radiation density prescribed.)	Radiation lamp heating from above the cabin (Radiation density: 400±50 W/m ²)		
In-cabin temperature	40°C in driver's breathing zone (Note: 35°C for buses.)	No in-cabin test temperature prescribed. (Presumed to be 40°C in driver's breathing zone [compact car].)		
Pre-test conditions	Cabin doors and windows left open for at least 30 minutes.	Cabin doors and windows left open for one hour.		
Ambient mode	_	Cabin doors and windows closed for at least 7.5 hours, then cabin air sample-tested over a period of 30 minutes.		
Parking mode (airtight state)	Cabin air sample-tested over a period of 30 minutes, 4.5 hours after reaching the prescribed temperature.	Cabin air sample-tested over a period of 30 minutes, 3.5 hours after start of heating.		
Driving mode	Cabin air sample-tested over a period of 15 minutes, with engine and AC on (internal air circulation mode). (Note: 30 minutes for trucks and 120 minutes for buses.)	Cabin air sample-tested over a period of 30 minutes, with engine and AC on (external air ventilation mode).		
Test procedure schematic	(For passenger cars)	Lamp heating Lamp heating How the set Lamp hea		

Source: ISO 12219-1:2012

TARGET VALUES FOR INDOOR CONCENTRATION LEVELS OF 13 SUBSTANCES (VOCs)

Substance	Target Value for Indoor Concentration Level	Principal Sources
Formaldehyde	100 μg/m ³ (0.08 ppm)	Adhesives for plywood, wallpaper, etc.
Toluene	260 µg/m ³ (0.07 ppm)	Adhesives/paints for interior finishing materials, furniture, etc.
Xylene	870 μg/m ³ (0.20 ppm)	Adhesives/paints for interior finishing materials, furniture, etc.
Paradichlorobenzene	240 µg/m ³ (0.04 ppm)	Moth repellents, lavatory air fresheners
Ethylbenzene	3,800 µg/m ³ (0.88 ppm)	Adhesives/paints for plywood, furniture, etc.
Styrene	220 μg/m ³ (0.05 ppm)	Insulation materials, bath units, tatami-mat core materials
Chlorpyrifos	1 µg/m ³ (0.07 ppb) (see note)	Insecticides (esp. ant exterminators)
Di-n-butyl phthalate	220 µg/m ³ (0.02 ppm)	Paints, pigments, adhesives
Tetradecane	330 µg/m ³ (0.04 ppm)	Kerosene, paints
Di-2-ethylhexyl phthalate	120 μg/m³ (7.6 ppb)	Wallpaper, flooring materials, wire-coating materials
Diazinon	0.29 μg/m³ (0.02 ppb)	Pesticides
Acetaldehyde	48 μg/m ³ (0.03 ppm)	Adhesives for construction materials, wallpaper, etc.
Fenobucarb	33 µg/m³ (3.8 ppb)	Insecticides (esp. termite exterminators)

Note: 0.1 µg/m³ (0.007 ppb) for children.

Global Harmonization in the Regulation of Vehicle Exhaust Emissions

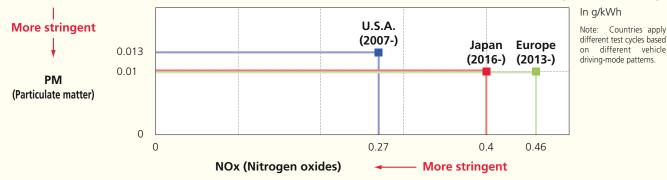
Japan's vehicle exhaust emissions regulations have always been among the world's most stringent, and its automakers have worked very hard to develop the advanced technologies required to comply with them. As a result, NOx and other atmospheric pollutant levels have been, even in large urban areas, on a steady decline. Based on the Ministry of the Environment-affiliated Central Environment Council's policy recommendations for future reductions in motor vehicle exhaust emissions (released in April 2005), comprehensive and even stricter new regulations, covering both gasoline and diesel vehicles, were implemented by the Japanese government in 2009. Japan has participated in international discussions on the global harmonization of emission test cycles and in 2010 introduced the UN test cycle for motorcycle emissions. In 2018 Japan will adopt the UN "WLTP" test cycle to measure emissions from new gasoline-powered passenger cars and light commercial vehicles, following its adoption in 2016 of the UN "WHTC" test cycle for measuring diesel exhaust emissions from new heavy-duty vehicles (see page 67).

COMPARISON OF HEAVY-DUTY DIESEL TRUCK EMISSIONS REGULATIONS

		All regulatory values below apply to the heaviest truck categories. In g/kW					
		NOx Nitrogen oxides	THC Total hydrocarbons	NMHC Non-methane hydrocarbons	CO Carbon monoxide	PM Particulate matter	
Japan (GVW=Over 3.5	tons) (1)						
Long-term regulatio	ns (1997, 1998, 1999)	4.50	2.90	_	7.40	0.25	
New short-term regu	ulations (2003, 2004)	3.38	0.87	—	2.22	0.18	
New long-term regu	lations (2005) (2)	2.0		0.17	2.22	0.027	
Post-new long-term	regulations (2009, 2010)	0.7	_	0.17	2.22	0.01	
Future regulations (2	2016, 2017, 2018)	0.4	<u> </u>	0.17	2.22	0.01	
U.S.A. (GVW=Over 3.8	35 tons)						
1998 standard		5.36	1.74	_	20.78	0.134	
2004 standard		Automobile manufact	urers must comply with	one of the following:	20.78	0.134	
		1) NOx + NMHC 3.22					
			with mandatory NMH				
2007 standard		0.27		0.188	20.78	0.013	
Europe (GVW=Over 3.	.5 tons)						
EURO II (1995)		7.0	1.1	—	4.0	0.15	
EURO III (2000) (3)	Transient mode	5.0	—	0.78	5.45	0.16	
	Steady state mode	(5.0)	(0.66)	—	(2.1)	(0.10)	
EURO IV (2005)	Transient mode	3.5	—	0.55	4.0	0.03	
	Steady state mode	(3.5)	(0.46)	—	(1.5)	(0.02)	
EURO V (2008)	Transient mode	2.0		0.55	4.0	0.03	
	Steady state mode	(2.0)	(0.46)	_	(1.5)	(0.02)	
EURO VI (2013)	Transient mode	0.46	0.16	_	4.0	0.01	
	Steady state mode	(0.4)	(0.13)	_	(1.5)	(0.01)	

(1) GVW (gross vehicle weight) (Japan) = Vehicle weight + Maximum load + Maximum occupants x 55 kg. Weight per occupant and other details slightly differ from those of U.S. and European regulations. (2) Japan's 1997-2004 regulations applied to the over-2.5t GVW vehicle category; regulations as of 2005 apply to the over-3.5t GVW vehicle category. (3) EURO III (Europe): All vehicle categories were regulated in the steady state (ESC) mode only, except DPF- and NOx reduction catalyst-equipped vehicles, which were regulated in both the steady state (ESC) and transient (ETC) modes. Beginning with EURO IV, all vehicle categories, whether DPF- and NOx reduction catalyst-equipped or not, are regulated in both modes.

COMPARISON OF HEAVY-DUTY DIESEL TRUCK EMISSIONS REGULATIONS (PM and NOx)



MOTOR VEHICLE EMISSIONS REGULATIONS IN JAPAN

			Current Regulations				Future Regulations			
V	Vehicle Type			Year enforced	Emission	Regulatory value (Average)	Test cycle	Year enforced	Emission	Regulator value (Average
Gasoline and LPG Vehicles	Passeng	jer cars	JC08 (g/km) (1)	2009	CO NMHC NOx	1.15 0.05 0.05	WLTP (g/km) (2)	2018	CO NMHC NOx	1.15 0.10 0.05
			JC08 (g/km) (1)	2009	PM (3)	0.005	WLTP (g/km) (2)	2018	PM (3)	0.00
	Trucks	Mini	JC08 (g/km) (1)	2009	CO	4.02	WLTP (g/km) (2)	2019	CO	4.02
	and				NMHC NOx	0.05			NMHC NOx	0.10
	buses		JC08 (g/km) (1)	2009	PM (3)	0.05	WLTP (g/km) (2)	2019	PM (3)	0.05
		Light-duty	JC08 (g/km) (1)	2009	CO	1.15	WLTP (g/km) (2)	2013	CO	1.15
	(GVW≤1.7t)			NMHC	0.05			NMHC	0.10	
					NOx	0.05			NOx	0.05
			JC08 (g/km) (1)	2009	PM (3)	0.005	WLTP (g/km) (2)	2018	PM (3)	0.00
		Medium-duty	JC08 (g/km) (1)	2009	CO	2.55	WLTP (g/km) (2)	2019	CO	2.55
		(1.7t <gvw≤3.5t)< td=""><td></td><td></td><td>NMHC NOx</td><td>0.05</td><td></td><td></td><td>NMHC</td><td>0.15</td></gvw≤3.5t)<>			NMHC NOx	0.05			NMHC	0.15
			JC08 (g/km) (1)	2009	PM (3)	0.07	WLTP (g/km) (2)	2010	NOx PM (3)	0.07
		Heavy-duty	JE05 (g/kWh)	2009	CO	16.0	VVLII (g/KIII/(2)	2019	1 101 (3)	0.00
		(GVW>3.5t)	(9,1(11))	2000	NMHC	0.23	(Carting)	11 11	£	
					NOx	0.7	(Continued app	distion c	ot current r	egulations)
					PM (3)	0.01				
Diesel Vehicles	Passeng	jer cars (4)	JC08 (g/km) (1)	2009	CO	0.63	WLTP (g/km) (2)	2018	CO	0.63
					NMHC	0.024			NMHC	0.024
					NOx PM	0.08			NOx PM	0.15
	Trucks	Light-duty	JC08 (g/km) (1)	2009	CO	0.63	WLTP (g/km) (2)	2018	CO	0.63
	and	(GVW≤1.7t)	5000 (g/km) (1)	2005	NMHC	0.024		2010	NMHC	0.024
	buses	· · · · · · ·			NOx	0.08			NOx	0.15
	Duses				PM	0.005			PM	0.00
		Medium-duty	JC08 (g/km) (1)	2009	CO	0.63	WLTP (g/km) (2)	2019	CO	0.63
		(1.7t <gvw≤3.5t)< td=""><td></td><td>(5)</td><td>NMHC</td><td>0.024</td><td></td><td></td><td>NMHC</td><td>0.024</td></gvw≤3.5t)<>		(5)	NMHC	0.024			NMHC	0.024
					NOx PM	0.15			NOx PM	0.24
		Heavy-duty	JE05 (g/kWh)	2009	CO	2.22	WHTC (g/kWh)	2016	CO	2.22
		(GVW>3.5t)		(5)	NMHC	0.17	(6)	2010	NMHC	0.17
		(,		(-)	NOx	0.7	(-)		NOx (7)	0.4
					PM	0.01			PM	0.01
Motorcycles	Motor-	driven cycles	WMTC (g/km)	2010	CO	2.2				
	Class 1		(8)		THC	0.45				
	D.d. a da a u	lation and a second second	WMTC (g/km)	2010	NOx CO	0.16				
		driven cycles	(8)	2010	THC	0.45				
	Class 2		(3)		NOx	0.45				
	Mini-siz	ed	WMTC (g/km)	2010	CO	2.62				
	motorc		(8)		THC	0.27				
		-		2012	NOx	0.21				
	Small-si		WMTC (g/km)	2010	CO THC	2.62				
	motorc	ycles	(8)		NOx	0.27				
	Class T	motorcycles*	Under 0.150 <i>l</i>	in eng			WMTC (g/km)	2016	60	1 1 4
			maximum speed	of 50km	h, or und	er 0.150 <i>l</i> in	(8)	(9)	CO	1.14
			engine capacity	y with a	maximun	n speed of			тнс	0.30
			99km/h.							0.00
			*Equivalent to moto	or-driven cyc	cies, Class 1 a	nd Class 2.			NOx	0.07
	Class I motorcycles*			Under 0.150 ℓ in engine capacity with a maximum speed of <130km/h, or 0.150 ℓ or			WMTC (g/km)	2016 (9)	со	1.14
				over in engine capacity with a maximum speed					ТНС	0.20
			*Equivalent to mini-sized and small-sized motorcycles with a maximum speed of <130km/h.					NOx	0.07	
	Class II	motorcycles*	With a maximur	n speed o	of ≥130km/	h.	WMTC (g/km)	2016	CO	1.14
				uivalent to mini-sized and small-sized motorcycles with			(9)	THC	0.17	
			a maximum speed o	n ≥130km/h	1.				NOx	0.09

(1) All vehicles weighing 3.5t or less are regulated on the basis of (values measured in cold-start state in JC08 test cycle) x 0.25 + (values measured in warm-start state in JC08 test cycle) x 0.25 + (values measured in usrm-start state in JC08 test cycle) x 0.25 + (values measured in usrm-start state in JC08 test cycle) x 0.25 + (values measured in usrm-start state in JC08 test cycle) x 0.25 + (values measured in usrm-start state in JC08 test cycle) x 0.25 + (values measured in usrm-start state in JC08 test cycle) x 0.25 + (values measured in usrm-start state in JC08 test cycle) x 0.25 + (values measured in usrm-start state) x 0.86 + (values measured in cold-start state) x 0.86 + (values measured) x 0.86

Improving Air Quality

Japan's central government as well as local governments in major metropolitan areas have implemented measures to address air quality problems caused by motor vehicles. In accordance with national legislation aimed at curbing nitrogen oxide (NOx) and particulate matter (PM) emissions, the issuance of inspection-compliance certification is prohibited for vehicles that fail to meet the legal standards at inspection time. Moreover, local governments in major metropolitan areas have introduced additional regulations for diesel trucks and buses for the specific purpose of reducing PM emissions. Enforcement of those regulations means that restrictions are imposed on diesel vehicle circulation in the areas concerned.

PROVISIONS OF THE NATIONAL AUTOMOTIVE NOX AND PM LAW/ DIESEL TRUCK & BUS PM EMISSION REGULATIONS FOR MAJOR METROPOLITAN AREAS

	Provisions of the National Automotive NOx and PM Law (Major Metropolitan Areas)	Provisions of PM Emission Regulations for Diesel Vehicles (Major Metropolitan Areas)
Areas Regulated	Tokyo and Aichi, Chiba, Hyogo, Kanagawa, Mie, Osaka, and Saitama (designated areas)	Tokyo (except for islands) and Chiba, Kanagawa, and Saitama (all areas); Hyogo (designated areas); Osaka (same areas as those designated under the Automotive NOx & PM Law)
Vehicle Types Regulated	Diesel, gasoline, and LPG trucks and buses Diesel passenger cars	Diesel trucks and buses Note: Not applicable to diesel passenger vehicles with up to 10-passenger occupancy.
Substances Regulated	NOx and PM	PM only NOx and PM in Hyogo and Osaka
Regulatory Values in Force	Trucks and Buses GVW = Gross vehicle weight GVW=1.7 tons & under: NOx: 0.48g/km (same as 1988 regulatory value for new gasoline vehicles) PM: 0.055g/km (half the 2002 regulatory value for new diesel vehicles) GVW=Over 1.7 tons to 2.5 tons: NOx: 0.63g/km (same as 1994 regulatory value for new gasoline vehicles) PM: 0.06g/km (half the 2003 regulatory value for new diesel vehicles) PM: 0.06g/km (half the 2003 regulatory value for new diesel vehicles) GVW=Over 2.5 tons to 3.5 tons: NOx: 5.9g/kWh (same as 1995 regulatory value for new gasoline vehicles) PM: 0.175g/kWh (half the 2003 regulatory value for new diesel vehicles) GVW=Over 3.5 tons: NOx: 5.9g/kWh (same as 1998-1999 regulatory value for new diesel vehicles) PM: 0.49g/kWh (same as 1998-1999 regulatory value for new diesel vehicles) PM: 0.48g/km (same as 1978 regulatory value for new gasoline vehicles) PM: 0.48g/km (same as 1978 regulatory value for new diesel vehicles) PM: 0.055g/km (half the 2002 regulatory value for new diesel vehicles)	In Chiba and Kanagawa, same as 1997, 1998, and 1999 regulatory values for new diesel trucks and buses In Tokyo and in Saitama, same as 2002, 2003, and 2004 regulatory values for new diesel trucks and buses In Hyogo and Osaka, same values as those mandated by the Automotive NOx & PM Law
Specific Provisions	 New Vehicles In regulated areas, new vehicles not meeting the standards cannot be registered. Vehicles in Use Regulated vehicles whose principal places of use (as declared in their inspection certificates) fall in regulated areas and that do not meet the standards will not be granted inspection certification after grace periods have expired. Note: Vehicles whose principal places of use (as declared in their inspection certificates) do not fall in regulated areas can travel through regulated areas even if they do not meet the standards. 	New Vehicles No restriction. Vehicles in Use Vehicles not meeting the standards are prohibited from travelling through regulated areas after grace periods have expired. In Osaka, vehicles not meeting the standards are prohibited from travelling on roads directly accessing regulated areas. In Tokyo and in Chiba, Kanagawa, and Saitama, vehicles equipped with local government-specified PM reduction systems are deemed to be in compliance with the standards. Note: Applicable to diesel trucks and buses registered anywhere in Japan and travelling through regulated areas.
Grace Periods	From first registration: Small trucks 8 years etc. Diesel passenger cars 9 years etc. Standard trucks 9 years etc. Minibuses 10 years etc. Large buses 12 years etc.	Seven years from first registration, regardless of vehicle type (truck or bus) Note: In Chiba, vehicles neither registered in nor travelling through areas designated under the Automotive NOx & PM Law will be exempted for a period of 12 years, provided vehicle owners apply for such an exemption. In Hyogo, grace periods differ according to year of first registration and vehicle type. In Osaka, grace periods are the same as those specified in the Automotive NOx & PM Law.

Promoting Vehicles with Greater Fuel Efficiency and Lower Emissions

Vehicles with greater fuel efficiency help counter global warming through their reduced emission of CO₂, while vehicles with reduced tailpipe emissions help improve air quality. The Japanese government has established motor vehicle environmental performance certification criteria keyed to Japan's latest fuel efficiency and emission standards. Trucks and buses that comply with NOx (nitrogen oxides) and PM (particulate matter) emissions requirements are also certified, separately. To boost widespread public awareness of vehicles with advanced fuel efficiency and/or low emissions, such vehicles are identified with appropriately coded stickers.

CERTIFICATION FOR VEHICLES WITH ADVANCED FUEL EFFICIENCY

Performance Criteria	Vehicle Sticker
Compliant +50% with	平成32年度
2020 fuel efficiency standards	幣費基準件 <mark>50%</mark> 達成車
Compliant +40% with	完成32年度
2020 fuel efficiency standards	照費基準令40%這成車
Compliant +30% with	^{92632年度}
2020 fuel efficiency standards	燃費基準 4 30%達成車
Compliant +20% with	^{(平成32年度}
2020 fuel efficiency standards	燃費基準+20%建成車
Compliant +10% with	^{東國32年度}
2020 fuel efficiency standards	燃費基準令 <mark>10%</mark> 達成車
Compliant with	^{要成32年度}
2020 fuel efficiency standards	燃費基準達成車
Compliant +35% with	来成27年度
2015 fuel efficiency standards	燃費基準 13 5% 建成車
Compliant +25% with	来展 ^{27年度}
2015 fuel efficiency standards	燃費基準 025 %達成車
Compliant +20% with 2015 fuel efficiency standards	[.]
Compliant +15% with	^{现在27年建}
2015 fuel efficiency standards	幣費基準令 <mark>15</mark> %達成車
Compliant +10% with	平成27年度
2015 fuel efficiency standards	贼費基準代10%3達成車
Compliant +5% with	^{9.62.27年度}
2015 fuel efficiency standards	燃費基準 (5%)達成車
Compliant with	^{平成27年處}
2015 fuel efficiency standards	燃費基準達成車

CERTIFICATION FOR VEHICLES WITH LOW EMISSIONS

Performance Criteria	Vehicle Sticker
Emissions down by 75% from 2018 standards	佐休休休 低排出ガス車 平430年 新北次3年 75% 年末 年上交易大臣歴史年
Emissions down by 50% from 2018 standards	佐藤田市の (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
Emissions down by 25% from 2018 standards	佐排出ガス車 ¹ ¹ ¹ ¹ ¹ ¹ ¹ ¹
Emissions down by 10% from 2009 standards	
Emissions down by 75% from 2005 standards	 佐排出ガス車 日17年期はカス車 日2月2日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日日
Emissions down by 50% from 2005 standards	はないまでのです。 は17年 回日 カス 車 日 2 50 % 50 % 50 % 50 % 50 % 50 % 50 % 50

CERTIFICATION FOR TRUCKS AND BUSES WITH LOW NOX & PM EMISSIONS

Performance Criteria	Vehicle Sticker
Compliant with 2016 emission standards	Det House and Company and Com
Compliant with 2009 emission standards	は日期 HOD control 前合車 BRIT BLC ST
Compliant with 2005 emission standards	
Compliant with other designated NOx and PM emission standards	

Vehicle Recycling and Waste Reduction

Under Japan's End-of-Life Vehicle (ELV) Recycling Law which entered into force in January 2005, automobile manufacturers and importers are responsible for recovery, recycling and appropriate disposal with respect to fluorocarbons, airbags, and automobile shredder residue (ASR). Compliance with the law was anticipated to enable ASR to be recycled at a rate of 70% by 2015, resulting in an automobile recycling rate, by vehicle weight, of 95% (as compared with the 80% rate prevailing prior to the introduction of the law); those rates were in fact surpassed in 2008. Japan's vehicle recycling infrastructure as mandated by its ELV Recycling Law is the first in the world to administer the entire process of auto recycling—from ELV recovery to final disposal—on the basis of electronic "manifests" (or compliance checklists). JAMA itself played a central role in the development and implementation of this advanced vehicle recycling system; it has, moreover, provided continuous cooperation in, and financial support for, the development, maintenance, and upgrading of related systems. In line with legislative provisions promoting the so-called 3R initiatives ("reduce, reuse, and recycle"), Japan's automakers are also striving to design vehicles using lightweight materials that are easy to dismantle and recycle, and to reduce and recycle waste generated in the manufacturing process. In 2015 the volume of auto plant-generated waste destined for landfill disposal totalled 400 tons, surpassing by a very wide margin the 2015 target of 10,000 tons. With a new target of 1,000 tons set for 2020, JAMA members will continue to promote the reduction of waste for landfill disposal.

	Promotion of Effective Utilization of Resources Law (the "3R" Law)			End-of-Life Vehicle Recycling Law
	Product Design	Waste Management		ELV Recycling
"Reduce" initiatives	For designated products: - Weight reduction/ Downsizing - Longer product life - Reduced use of hazardous substances	For designated areas of activity: - Reduction/recycling of designated waste products generated in vehicle manufacturing operations: 1) Scrap metals 2) Casting sand residue	g and Use	Basic premise: - Environmentally responsible vehicle design on the part of automobile manufacturers
"Reuse" initiatives	For designated products: - Use of recyclable materials		Distribution, Servicing	
"Recycle" initiatives	- Ease of dismantling - Ease of sorting - Non-hazardous recycling	- Total waste volume*: 1990 (baseline): 352,000 tons ↓ 2015: 400 tons JAMA target: 10,000 tons by fiscal 2015	Dist	 Recovery and recycling of: 1) Fluorocarbons 2) Airbags 3) ASR
	- Non-nazardous recycling - Materials identification	*For landfill disposal, including scrap metals, casting sand residue, and other waste		Note: Motorcycles are not covered by the ELV Recycling Law.

INDUSTRY MEASURES IN LINE WITH NATIONAL LEGISLATION

ELV RECOVERY IN NUMBERS

In vehicle units

Fiscal Year		2015	2016
No. of ELVs recovered		3,156,459	3,096,790
Appropriate disposal of three designated items	Fluorocarbons	2,741,493	2,674,057
	Airbags (1)	2,354,249	2,373,276
	ASR (2)	3,122,567	3,029,981

 Through recovery/appropriate disposal of inflators or through onboard deactivation.
 Covers all categories of processors, whether for direct disposal or for transfer to other markets.

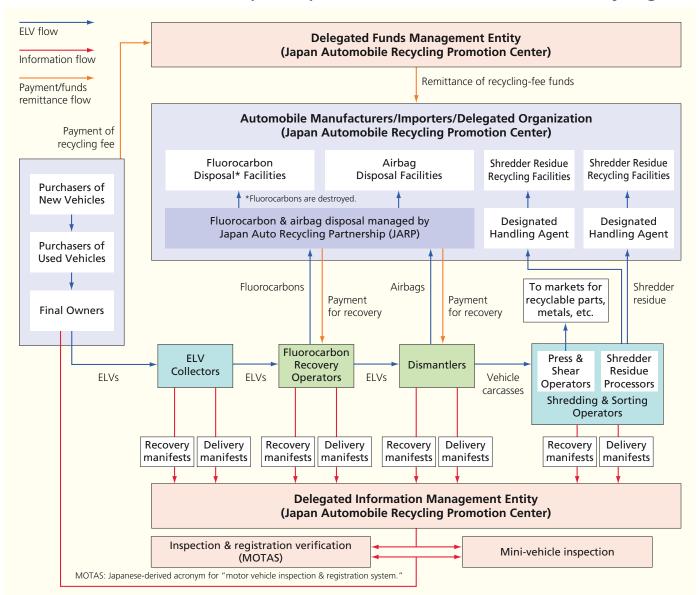
Source: Japan Automobile Recycling Promotion Center

RECYCLING RATES: TARGETED & ACHIEVED

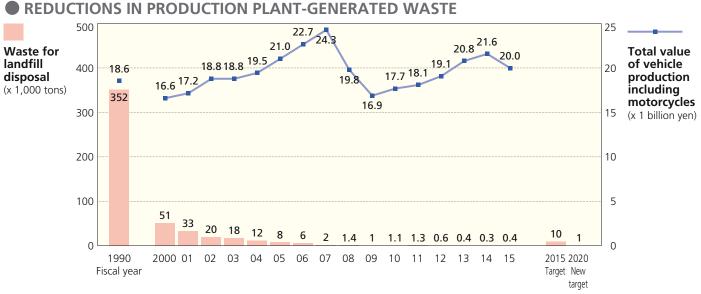
Three Designated Items	Target	Achieved
Fluorocarbons	Destruction	2.74 million vehicle units (2015)
Airbags	85%	93-94% (2015)
ASR	2005: 30% 2010: 50% 2015: 70%	96.5-98.8% (2015)

Sources: Government-affiliated entities

THE ELV RECYCLING FLOW (as per the provisions of the End-of-Life Vehicle Recycling Law)



Note: The Japan Automobile Recycling Promotion Center assumes the same responsibilities as automobile manufacturers and importers when an ELV has no manufacturer representation under the provisions of this law. It also assumes transport-to-mainland costs for ELVs turned in on Japan's smallest islands.

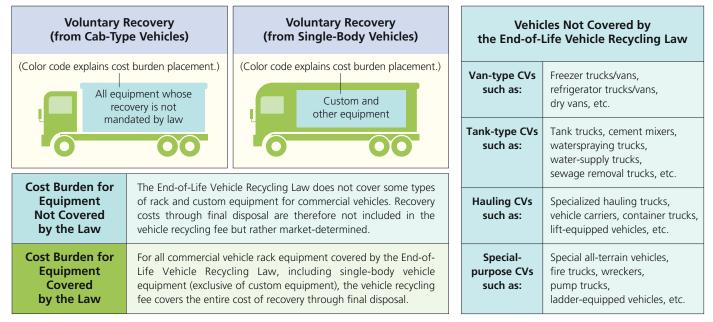


Source: Japan Automobile Manufacturers Association

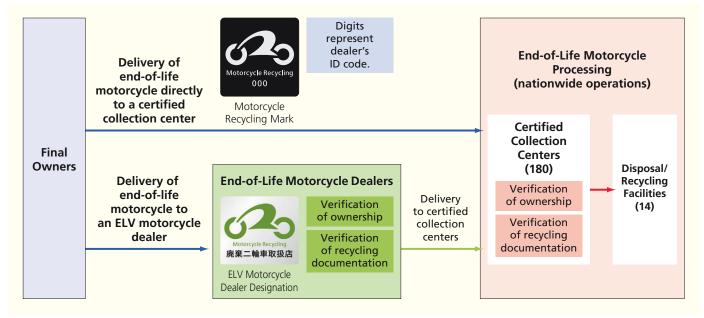
Voluntary Initiatives to Recycle Commercial Vehicle Rack Equipment and Motorcycles

Japan's End-of-Life Vehicle Recycling Law does not cover some types of commercial vehicle rack and custom equipment, nor does it cover motorcycles. In response, JAMA, in cooperation with the Japan Auto-Body Industries Association, promotes the voluntary development and use of rack equipment that is easy to dismantle and contains minimal amounts of hazardous substances. JAMA has also introduced a recycling-and-disposal system for such equipment and encourages operator participation in the system. As of January 2017, a total of 159 operators across Japan are participating in this system voluntarily. Meanwhile, since October 2004 JAMA's four motorcycle-manufacturing members, along with 12 motorcycle importers, have been voluntarily operating a recycling system under which motorcycle dealers nationwide sell only vehicles that feature an official motorcycle recycling mark, enabling, without any additional charge to their final owners, their recovery and processing through the proper disposal channels at the end of their service life. In October 2011, the motorcycle recycling fee was eliminated for vehicles sold prior to the introduction of the motorcycle recycling system seven years earlier. The disposal of municipally-owned end-of-life motorcycles requires advance approval by the Japan Automobile Recycling Promotion Center.

COMMERCIAL VEHICLE RACK EQUIPMENT NOT COVERED BY THE END-OF-LIFE VEHICLE RECYCLING LAW



THE MOTORCYCLE RECYCLING FLOW

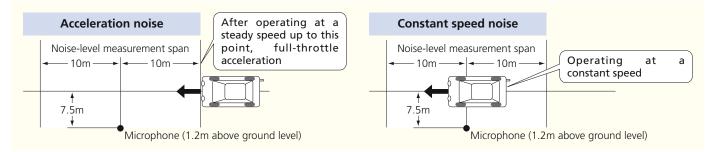


Note: The cost of ELV motorcycle delivery from ELV dealers to certified collection centers is financed by the motorcycle manufacturers on the basis of the consumer's recycling fee paid at the time of motorcycle purchase Source: Japan Automobile Recycling Promotion Center

Reducing Automobile-Emitted Noise

Automobiles generate various kinds of noise, including the noise emitted by the engine, intake system, powertrain, and cooling and exhaust systems. Tires also generate tire-road noise. Automotive noise in Japan is regulated by standards—on acceleration noise, constant speed noise, and stationary noise—which have become progressively more stringent, requiring automakers to develop the technologies necessary for compliance. As regards the noise intentionally emitted through tampered mufflers, which has been recognized as a public nuisance, strengthened regulations in effect since April 2010 mandate a) that mufflers be tamper-resistant so as to prevent the alteration of their noise-suppression mechanism, and b) that replacement mufflers meet the relevant acceleration noise standard through type approval compliance and be ID-marked accordingly. Although very significant progress has been made as a result of these efforts, the Japanese government is nevertheless updating its noise regulations in line with the results of studies conducted under the United Nations' World Forum for Harmonization of Vehicle Regulations (WP.29). UN Regulation (or "UN R") 41-04, the new international standard on motorcycle acceleration noise, has been enforced in Japan since January 2014, and in its "New Measures for Reducing Automobile-Emitted Noise" released in July 2015, the government announced an approximate timetable for its adoption of UN R51-03 regulating motor vehicle acceleration noise testing and UN R117-02 regulating tire noise. Meanwhile, UN guidelines on equipping electric and hybrid vehicles with a proximity warning system (to counter their quietness at low speeds) were established in 2011 on the basis of existing Japanese guidelines.

PROCEDURES FOR TESTING MOTOR VEHICLE NOISE LEVELS



OVERVIEW OF JAPAN'S MOTOR VEHICLE NOISE REGULATIONS (for acceleration noise) In dB(A)

	Passenger Cars, Trucks and Buses										
	Vehiele Type			I	Regulatio	n					
	Vehicle Type					1982-1987	1998-2001				
Large-sized vehicles	Vehicles with GVW>3.5 tons and	4WD vehicles, etc.					82				
	maximum engine output>150 kW	Trucks	92	89	86	83	81				
		Buses					01				
Medium-sized vehicles	Vehicles with GVW>3.5 tons and	4WD vehicles, etc.		87	86	83	81				
	maximum engine output≤150 kW	Trucks	89				80				
		Buses					80				
Small-sized vehicles	Vehicles with GVW≤3.5 tons	Other than mini-vehicles	85	83	81	78	76				
		Mini-vehicles	60	65	01	/0	70				
Passenger cars	Vehicles exclusively for the	Over 6 occupants									
_	transport of passengers, with up 6 occupants or		84	82	81	78	76				
	to 10-passenger occupancy	-									

Notes: 1. In pre-1987 regulations, "150 kW" reads "200 horsepower." 2. "4WD vehicles, etc." includes 4WDs, tractors, and cranes.

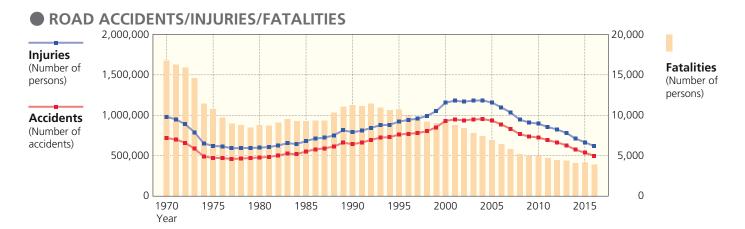
Motorcycles Regulation Vehicle Type 1971 1976-1977 1979 1982-1987 1998-2001 2014-Small-sized motorcycles Over 250cc 86 83 78 75 73 126cc-250cc Mini-sized motorcycles 84 Class III (see note) Over 50 Mini-sized and small-sized motorcycles 77 (PMR*-based) | under the previous classification 79 75 72 71 Motor-driven cycles Class 2 51cc-125cc 82 Class II (see note) 26-50 Mostly Class 2 but also some Class (PMR*-based) 1 motor-driven cycles and some 74 mini-sized motorcycles under the previous classification Motor-driven cycles Class 1 50cc & under 80 79 75 71 72 Class I (see note) 25 & under Class 1 motor-driven cycles under 73 (PMR*-based) the previous classification

*PMR: Power-to-mass ratio. Note: For noise regulation purposes only, since 2014 motorcycles in Japan have been classified (based on their PMR values) under the Class I, II and III categories, replacing the Class 1 motor-driven cycle, Class 2 motor-driven cycle, mini-sized motorcycle and small-sized motorcycle categories.

Source: Ministry of the Environment

Road Fatalities Down after a Slight Rise; Road Accidents and Resulting Injuries Decline for Twelfth Straight Year

In 2016 road fatalities (defined here as deaths occurring within 24 hours after accident) in Japan decreased from the previous year to a total of 3,904. Road accidents and road injuries declined, for the twelfth consecutive year, to 499,201 and 618,853 respectively. Seatbelt use is a major contributing factor to reduced fatalities and reduced injuries in road traffic accidents. The June 2008 revision to the Road Traffic Act requires all automobile passengers, including rear-seat occupants, to use seatbelts. Although the rate of use of rear seatbelts in 2016 stood at 36.0% on regular roads and at 71.8% on expressways, those rates remain low compared to the rate of use of front seatbelts, which approaches 100%. Further measures are needed to encourage rear-seat occupants to buckle up.



ROAD ACCIDENTS/INJURIES/FATALITIES (exact figures)

Year	1970	1975	1980	1985	1990	1995	2000	2005	2010	2012	2013	2014	2015	2016
Accidents	718,080	472,938	476,677	552,788	643,097	761,794	931,950	934,346	725,924	665,157	629,033	573,842	536,899	499,201
Injuries (Number of persons)	981,096	622,467	598,719	681,346	790,295	922,677	1,155,707	1,157,113	896,297	825,392	781,492	711,374	666,023	618,853
Fatalities (Number of persons)	16,765	10,792	8,760	9,261	11,227	10,684	9,073	6,937	4,948	4,438	4,388	4,113	4,117	3,904

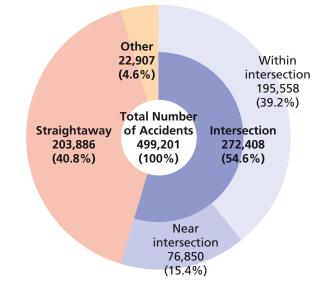
Source: National Police Agency

SEATBELT USE RATES BY SEAT POSITION

...... Driver's seat Front passenger's seat Rear seat In % **Regular Roads** 95.0 95.9 96.6 97.3 97.5 97.7 98.0 98.2 98.4 98.5 100 86.3 89.2 90.8 92.2 92.7 93.2 93.9 93.9 94.6 94.9 80 60 30.8 33.5 33.1 33.2 33.2 35.1 35.1 35.1 36.0 40 20 8.8 0 2007 08 09 10 11 12 13 14 15 16 Year **Expressways** 98.5 99.0 99.3 99.5 99.4 99.5 99.2 99.2 99.4 99.5 100 97.9 977 98.1 98.0 98.0 96.4 96.9 97.0 97.3 93.5 80 68.2 65.4 63.7 63.5 63.4 62.5 70.3 71.3 71.8 60 40 13.5 20 0 2007 08 09 10 12 13 14 15 16 11

Year Notes: 1. The survey on seatbelt use is conducted annually in October. 2. 2016 survey

samples totalled roughly 412,000 on regular roads and 88,000 on expressways. Sources: National Police Agency; Japan Automobile Federation ROAD ACCIDENTS IN 2016 BY ROAD CONFIGURATION
 Number of accidents



Notes: 1. "Straightaway" includes some curves and tunnels. 2. "Other" includes railroad crossings.

Japan's 10th Basic Plan for Road Safety

Japan's road safety measures are promoted on the basis of its succession of consecutive "basic plans" for road safety, the first of which was implemented in 1971. The provisions of the tenth national road safety plan (2016-2020) are premised on the ultimate goal of eliminating road accidents altogether and were formulated on the basis of three guiding principles, namely: 1) the overarching priority of protecting human life, with a particular emphasis on promoting road safety for children, the elderly, and the disabled; 2) the application of advanced technologies to improve road safety; and 3) the promotion of research activity and technological innovation targeting greater road safety.

JAPAN'S ROAD SAFETY TARGETS

- To reduce the annual number of road fatalities to 2,500 or fewer by 2020, and thus to make Japan's roads the safest in the world.
- To reduce the annual number of road injuries (including fatalities for deaths occurring within 24 hours of accident) to 500,000 or fewer by 2020.

EIGHT MAJOR AREAS OF ROAD SAFETY PROMOTIONAL ACTIVITY

Road Infrastructure Improvements	Road Safety Public Awareness-Promoting Initiatives
- Creation of safe pedestrian walkways alongside community roads	- Provision of population segment-targeted road safety education
- Expanded measures for greater safety on main roads	- Conduct of road safety public awareness campaigns
- Creation of a bicycle-friendly road use environment	- Promotion of road safety awareness campaigns undertaken by civic organizations
- Expansion of parking space availability	- Promotion of road safety activities in local communities with the participation of residents
Promotion of Safe Driving	Enhancement of Vehicle Safety
- Upgrading of driver education programs	- Upgrading of vehicle safety standards
- Implementation of improvements to the driver licensing system	- Enhanced new car assessment information supply
- Promotion of safe-driving management activities in commercial operations	- Implementation of improvements to the national vehicle recall system
- Promotion of planning & monitoring initiatives for greater safety in commercial vehicle operations	- Promotion of bicycle safety
Enforcement of Road Traffic Laws - Strict enforcement of traffic regulations - Systematic investigation of road traffic violations - Stronger crackdowns on "hot-rodding" motorcyclists	Reinforcement of Emergency Road Rescue Operations Infrastructure - Upgrading of rescue operation systems - Upgrading of emergency medical support systems - Development of coordination activities in emergency rescue operations
Provision of Fair Compensation for Road Accident Victims - Promotion of improvements to automobile liability coverage - Enhanced support for the provision of fair "damages" compensation - Enhanced trauma care for road accident victims	Promotion of Road Safety Research and Analysis - Promotion of R&D activities for greater road safety - Promotion of comprehensive analysis of road accident causation

Source: Japan's 10th Basic Plan for Road Safety

Automobiles and Society

Road Safety ③ JAMA Initiatives

JAMA Initiatives in Promoting Greater Road Safety

JAMA supports the Japanese government's goals for reduced road fatalities and injuries (see "Japan's Road Safety Targets" in the next section) and pursues its own road safety-promoting initiatives, which are summarized below.

JAMA'S ROAD SAFETY INITIATIVES IN EIGHT PRIORITY AREAS

Priority Area	Road Users: Public Awareness Campaigns	Vehicles: Safety Measures	Road Infrastructure: Proposals to Government
①Accidents involving pedestrians or cyclists	 Continued implementation of road safety public awareness campaigns, based on the results of accident causation studies. 	More widespread application of AFS (1), ABS (2), BA (3), and stability control.	 For infrastructural improvements, based on the results of accident causation studies.
⁽²⁾ Special measures for the elderly	 Development of road safety educational programs specifically for the elderly. 	 Development of technologies specifically geared to aging-related physical changes. 	For more widespread roadway/sidewalk demarcation and greater barrier-free mobility.
③ Greater use of seatbelts	 Public awareness campaigns to promote the use of seatbelts. 		
④ Delays in driver recognition and incorrect vehicle control	 Campaigns aimed at preventing faulty driver recognition and incorrect vehicle control. 	 Research into the mechanisms of accident causation and human-machine interface conditions using data recorders, etc. 	
⑤ Accidents occurring at twilight/night	Campaigns to promote the early lighting of automobile headlamps.	More widespread application of AFS.	 For improved nighttime road illumination.
6 Accidents occurring at intersections	 Public awareness campaigns to encourage drivers to exercise greater caution at intersections, where the majority of fatal road accidents occur. 	 More widespread application of ABS, BA, and stability control. Improvement of side-impact protection performance. 	For road infrastructure regulations for effective utilization of ITS technologies.
⑦ Collisions with stationary objects		 Improvement of side-impact and vehicle occupant protection performance and of side and curtain airbags. 	 For expanded provision of underground power lines and impact-absorbing road installations.
⑧Compatibility		 R&D on crash-compatible vehicle bodies and compatibility evaluation methods to improve vehicle performance. 	

(1) Adaptive front-lighting systems; (2) Anti-lock braking systems; (3) Brake-assist systems.

Equipping More Vehicles with Advanced Safety Features

Road safety involves three factors—vehicles, road users, and road infrastructure—and greater road safety requires that progress be made in all three areas. The automotive industry continuously strives for greater *active* safety by upgrading vehicle safety equipment and expanding its onboard installation rates, to help prevent accident occurrence. For example, 44.9% of the totality of passenger cars produced in 2015 for the domestic market were equipped with forward collision-mitigation braking systems (including those for low-speed vehicle operation) and 37.4% with systems enabling accelerator suppression in the event of pedal misapplication. Automakers also continuously seek to increase *passive* safety through enhanced structural safety and vehicle features designed to mitigate injury when accidents do occur.

SAFETY FEATURE ONBOARD INSTALLATION STATUS (for passenger cars produced in 2015 for home market)

	Safety Feature			Installatio	on Status	
	Salety reature	In no. of m	odels (1)	In % (2)	In vehicle units	In % (2)
Active	Brake assist	179	(170)	98.4	3,718,099	97.0
Safety	Unfastened seatbelt warning (front passenger's seat)	110	(105)	60.4	2,618,825	68.
ballety	Power-window jamming prevention (with auto-up function)	178	(169)	97.8	3,738,024	97.
	Power-window jamming prevention (without auto-up function)	31	(30)	17.0	671,726	17.
	High-intensity discharge headlamps	162	(78)	89.0	2,195,292	57.
	Adaptive front-lighting system (AFS)	34	(15)	18.7	139,729	3.
	Backing-up monitoring (rear obstacle detection)	130	(32)	71.4	1,494,945	39.
	Vehicle perimeter monitoring	44	(14)	24.2	365,005	9.
	Vehicle perimeter obstacle warning	45	(7)	24.7	393,142	10
	Blind-corner monitoring	28	(5)	15.4	241,547	6
	Night vision monitoring	2	(0)	1.1	522	0.
	Curve detection	18	(4)	9.9	69,193	1.
	Tire pressure monitoring	20	(14)	11.0	92,800	2.
	Driver inattention warning	33	(10)	18.1	278,196	7.
	Inter-vehicle distance warning	78	(15)	42.9	852,419	22
	Lane departure warning	69	(14)	37.9	802,913	21
	Rear collision warning-equipped headrest control	3	(0)	1.6	1,273	0.
	Forward collision-mitigation braking system	75	(14)	41.2	705,468	18
	Adaptive cruise control	48	(7)	26.4	345,206	9
	Adaptive cruise control with low-speed following mode	18	(4)	9.9	199,775	5
	Full-range adaptive cruise control	26	(7)	14.3	222,726	5
	Lane-keeping assist	23	(2)	12.6	186,508	4
	Backing-up monitoring (parking assistance)	10	(1)	5.5	38,194	1
	Navigator-based gearshift control	15	(1)	8.2	48,715	1
	Pre-crash seatbelts	30	(5)	16.5	228,675	6
	Electronic stability control	172	(166)	94.5	3,495,904	91
	Traction control with anti-lock braking system	155	(149)	85.2	3,065,841	80
	Navigator-based stop sign alert with brake assist	10	(4)	5.5	108,478	2
	Rearward-approaching-vehicle warning	30	(4)	16.5	192,601	5
	Emergency braking warning	92	(82)	50.5	2,551,887	66.
	Vehicle proximity warning (for HVs/EVs) (3)	47	(42)	47.5	871,143	49
	Forward collision-mitigation braking system (for low-speed vehicle operation)	42	(12)	23.1	1,015,993	26
	Accelerator suppression for pedal misapplication	68	(15)	37.4	1,432,632	37
	Automatic high-to-low-beam headlamp control	36	(5)	19.8	284,001	7.
	Glare-free high beam headlamp control	9	(2)	4.9	46,637	1.
	Backing-up monitoring (moving-object warning)	24	(2)	13.2	163,538	4
	Backing-up collision-mitigation braking system	5	(1)	2.7	10,414	0.
	Vehicle perimeter-based collision-mitigation braking system (for low-speed operation)	14	(0)	7.7	217,145	5
	Rear collision-mitigation braking system	14	(0)	5.5	113,478	3.
	Lane departure prevention	26	(0)	14.3	202,649	5
	Side airbags	141	(72)	77.5	1,420,023	37
Passive	Curtain airbags	139	(72)	76.4	1,197,433	31
Safety	Active head restraints	139	(134)	78.4	2,998,057	78
				96.7		
	ISOFIX anchorages (for child safety seats)	176	(175)		3,715,685	97 72
	Three-point seatbelt for rear center seat (4)	134	(134)	84.3	2,283,610	73
	Total		182		3,831,851	

(1) "In no. of models" indicates the number of models in which the safety feature is installed as standard or optional equipment. Figures in parentheses indicate the number of models in which the safety feature is standard equipment. (2) "In %" means as a percentage of the total number of models/units produced. (3) In 2015 a total of 99 hybrid/electric car models (1,745,375 vehicle units) were produced. (4) In 2015 a total of 159 passenger car models (3,114,126 vehicle units) were produced, excluding mini and other passenger cars which are not eliaible for rear seat inclusion.

Notes: 1. Passenger cars here include minicars. 2. Criteria for inclusion in the calculations whose results are shown here were revised in 2015.

Assisted-Mobility Vehicles Provide Freedom of Movement

Assisted-mobility vehicles provide a comfortable and convenient means of displacement for people with otherwise limited mobility, such as elderly persons and the physically disabled, and are increasingly gaining recognition as meeting a significant need. They also play an essential role in the provision of public transportation services for all users. Japan's automakers have been working to enhance the convenience of assisted-mobility vehicles and thereby provide their users with optimal-quality mobility.

TYPES OF ASSISTED-MOBILITY VEHICLES

Vehicle Type	Vehicle Feature	Description	
Nursing care	Wheelchair-accessible (with ramp or lift)	Equipped with a ramp or an electrically-operated lift that allows boarding/deboarding while remaining seated in a wheelchair. Some types of ramps are operated electrically.	
Elevator seat		Equipped with a powered passenger or rear seat that, once rotated and slid out to the exterior, can be lowered to adjustable positions for easy boarding/exiting. Assists those who have considerable difficulty in boarding/exiting as well as wheelchair users.	
	Revolving seats Revolving sliding seats Revolving tilting seats	Passenger and rear seats can be rotated, rotated and slid out, or rotated and tilted to the exterior. Helpful for those who have a little difficulty in boarding/exiting.	
Self-operating	Drive-assist system	Equipped with drive-assist devices, such as a left-foot accelerator and hand/foot-operated equipment, so that it can be driven by the physically disabled.	
Other	Wheelchair van (multiple capacity)	Typically, with a maximum wheelchair-accommodating capacity of four. In some types, a passenger can be boarded into/deboarded from this vehicle while in a fully reclined position.	
	Assisted-mobility bus	A "non-step" bus equipped with an electric lift or ramp allowing boarding/deboarding while seated in a wheelchair. Their use in local intra-community transport is being promoted.	

TRENDS IN ASSISTED-MOBILITY VEHICLE SALES

2013 **Fiscal Year** 2012 2014 2015 2016 50,000 Buses 40,000 Mini-Vehicles Standard & Small Vehicles 30,000 20,000 10,000 0 25,129 24.366 25.004 23,398 24.380 Standard & Small Vehicles Chg. (%) 93.6 97.0 108.8 102.6 104.2 Wheelchair-accessible vehicles 13,577 13,196 14,013 13,525 14,493 10,209 7,454 Vehicles with elevator seats 10,388 10,065 6 2 1 7 Vehicles with revolving seats 1,552 2,838 660 471 552 427 370 Vehicles with drive-assist systems 504 490 374 440 462 Wheelchair vans (multiple capacity) 14,041 ,471 18,560 15,837 ,796 15 **Mini-Vehicles** Chg. (%) 147.9 110.2 120.0 85.3 87.1 Wheelchair-accessible vehicles 12,096 12,954 14,487 12,705 11,112 Vehicles with elevator seats 1,847 2,474 4,055 2,848 2,491 Vehicles with revolving seats 273 193 97 Vehicles with drive-assist systems 43 18 11 0 Other 0 0 0 4,352 4,305 5,510 6,308 3,959 **Buses** Chg. (%) 127.5 109.9 98.9 128.0 114.5 43,129 44.189 47,869 44,745 44.484 Total Chg. (%) 120.9 102.5 108.3 93.5 99.4

Notes: 1. JAMA member manufacturers provided the unit sales figures here, which do not include vehicles customized post-purchase. 2. Buses include minibuses. 3. "Standard & Small Vehicles" includes passenger cars and van-type commercial vehicles; definitions for "standard" and "small" vehicles here differ from those in Japan's Road Vehicles Act. 4. Vehicles with elevator seats and vehicles with revolving seats have been calculated separately since 2015. Figures for "Vehicles with elevator seats" prior to 2015 include vehicles Act. 4. Vehicles with revolving seats. 5. The "Wheelchair vans (multiple capacity)" figures prior to 2016 were listed as "Other" in this booklet's previous editions; and from 2016, the "Other" category for mini-vehicles is being eliminated. 6. "Chg. (%)" means change from the previous year (with the previous year's result indexed at 100).

In vehicle units

82.2 Million People Hold Driver's Licenses

At the end of 2016 there were 82.2 million people, or 45.3 million men and 36.9 million women, holding valid driver's licenses in Japan. The number of driver's licenses held totalled 127.8 million (with one count allotted to each vehicle category covered, whenever a license covers multiple vehicle categories). By license category, Class 2 licenses were held by 2.14 million people, or 2.08 million men and 0.06 million women, and Class 1 licenses by 125.6 million people, or 80.97 million men and 44.65 million women.

GENDER TRENDS IN DRIVER'S LICENSE HOLDERS (at end of every calendar year) Number of persons

Year	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Men	45,412,614	45,517,585	45,539,419	45,487,010	45,448,263	45,437,260	45,463,791	45,430,245	45,344,259	45,255,994
Women	34,494,598	34,930,257	35,272,526	35,523,236	35,767,003	36,050,586	36,396,221	36,645,978	36,805,749	36,949,917
Total	79,907,212	80,447,842	80,811,945	81,010,246	81,215,266	81,487,846	81,860,012	82,076,223	82,150,008	82,205,911

TOTAL NUMBER OF LICENSES HELD, BY YEAR & LICENSE/VEHICLE CATEGORY Number of licenses held

	Year	2010	2011	2012	2013	2014	2015	2016
Class 2	Large motor vehicle	1,068,347	1,046,361	1,026,180	1,007,743	986,518	964,383	942,526
Licenses	Middle-category motor vehicle	1,121,287	1,081,474	1,042,120	1,002,043	960,304	917,142	873,879
	Ordinary motor vehicle	200,961	208,060	214,555	220,403	224,823	229,494	234,070
	Large special-purpose vehicle	46,698	46,055	45,463	45,041	44,330	43,605	42,997
	Traction vehicle	52,480	51,716	51,035	50,473	49,665	48,844	48,134
	Subtotal	2,489,773	2,433,666	2,379,353	2,325,703	2,265,640	2,203,468	2,141,606
Class 1	Large motor vehicle	5,415,730	5,375,268	5,337,727	5,299,480	5,253,880	5,198,185	5,143,533
Licenses	Middle-category motor vehicle	73,587,938	72,814,101	72,070,665	71,409,459	70,632,500	69,732,685	68,813,808
	Ordinary motor vehicle	4,370,510	5,550,718	6,749,966	7,936,169	9,113,940	10,297,590	11,473,646
	Large special-purpose vehicle	2,435,324	2,443,687	2,454,123	2,465,978	2,473,823	2,476,598	2,475,520
	Traction vehicle	1,145,609	1,152,732	1,160,509	1,168,205	1,174,267	1,178,790	1,182,806
	Large two-wheeler	11,472,937	11,197,903	10,938,930	10,703,691	10,430,075	10,112,584	9,799,816
	Ordinary two-wheeler	8,996,934	9,154,873	9,310,786	9,472,692	9,619,692	9,752,541	9,877,616
	Small special-purpose vehicle	565,103	532,892	503,338	477,296	450,123	422,020	394,952
	Motorized bicycle	17,190,548	17,075,472	16,977,729	16,905,848	16,784,700	16,618,061	16,450,534
	Subtotal	125,180,633	125,297,646	125,503,773	125,838,818	125,933,000	125,789,054	125,612,231
Total	Total		127,731,312	127,883,126	128,164,521	128,198,640	127,992,522	127,753,837

Note: In the above figures, one count is allotted to each vehicle category covered, whenever a license covers multiple vehicle categories.

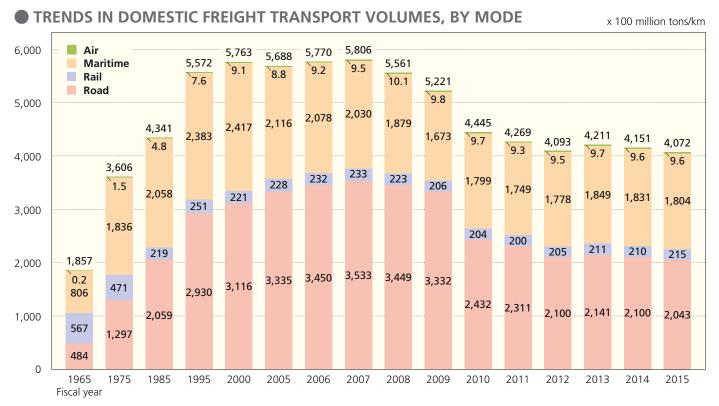
CLASS 1 LICENSES AND THE VEHICLE CATEGORIES THEY COVER

						Class 1 I	Licenses				
Vehicle Category	Vehicle Category		Middle- category motor vehicle	Quasi-middle- category motor vehicle	Ordinary motor vehicle	Large special- purpose vehicle	Large two- wheeler	Ordinary two- wheeler	Ordinary two-wheeler (51cc-125cc)	Small special- purpose vehicle	Motorized bicycle
Large motor vehic	le	•									
Middle-category m	notor vehicle	•	•								
Quasi-middle-catego	ory motor vehicle	•	•	•							
Ordinary motor ve	hicle	•	•	•	•						
Large special-purp	ose vehicle										
Large two-wheele	r (over 400cc)										
Ordinary	126cc-400cc							•			
two-wheeler	51cc-125cc							•	•		
Small special-purp	Small special-purpose vehicle		•	•	•			•	•		
Motorized bicycle	(50cc & under)	•	•								•

Notes: 1. As per a revision to the Road Traffic Act, the quasi-middle-category motor vehicle license went into effect from March 12, 2017. 2. The ordinary motor vehicle and large twowheeler license categories include licenses restricted to automatic transmission (AT) cars/motorcycles; the ordinary two-wheeler license category includes licenses restricted, respectively, to AT motorcycles, to small-sized (over 250cc) motorcycles, and to small-sized AT motorcycles.

Motor Vehicles Are Vital to Goods Distribution

Accounting at present for 50% of Japan's total freight transport, road transportation plays an essential role in goods distribution. The role of motor vehicles in freight transport, especially small cargo transport, will become even more significant in the years ahead.



Notes: 1. Since 1987, "Road" includes transport by mini-vehicles. 2. Survey and calculation methods for "Road" data changed in 2010. 3. "Road" figures for fiscal 2010 (ending March 31, 2011) and 2011 do not include March and April 2011 data from the Tohoku region and Hokkaido as a consequence of the March 11, 2011 earthquake. Sources: Ministry of Land, Infrastructure, Transport and Tourism, etc.

Automobiles and Society

Automobile Customs Tariffs

Automobile Customs Tariffs

After repeated reductions in tariff rates, import tariffs in Japan on finished motor vehicles and major auto components were completely abolished in 1978. Meanwhile, some countries still impose high tariffs on imported vehicles. The United States imposes a 25% tariff on imported trucks, and EU import tariffs range from 10% (on finished passenger cars) to 22% (on larger-sized trucks). China's auto tariffs remain high despite having been progressively lowered after the country's accession to the World Trade Organization.

AUTOMOBILE CUSTOMS TARIFFS, JAPAN/U.S.A./EU/CHINA

As of February 2017

	Japan	U.S.A.	EU	China
Passenger Cars	None	2.5%	10%	25%
Trucks	None	up to 20t in GVW	Gasoline trucks, over 2800cc Diesel trucks, over 2500cc ······ 22% Gasoline trucks, 2800cc or under Diesel trucks, 2500cc or under ····· 10%	Trucks, under 5t in GVW
Buses	None	Vehicles for the transport of 10 or more persons, incl. the driver 2%	Vehicles for the transport of 10 or more persons, incl. the driver Gasoline buses, over 2800cc Diesel buses, over 2500cc ······· 16% Gasoline buses, 2800cc or under Diesel buses, 2500cc or under ······ 10%	25%
Components, etc.	Major components: None	Bodies, parts and accessories 2.5%	Bodies, parts and accessories	Major components ····· 6-10%

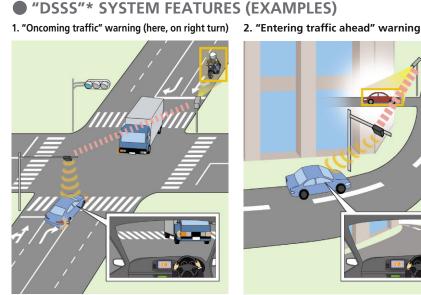
Sources: Customs tariff schedules of countries/region concerned

Wider ITS Applications and the Transition to Automated Driving

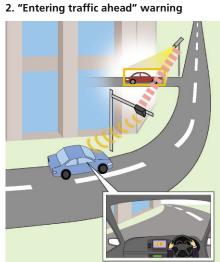
Intelligent Transport Systems aim to radically improve transport safety, efficiency and convenience through the use of information and communication technologies integrating road users, road infrastructure, and vehicles. In 1996 the Japanese government formulated its Comprehensive Concept for the Promotion of ITS, on the basis of which it has promoted, as a national project, ITS development in a number of areas. Advanced navigation systems are already widely in use, as are ETC (electronic toll collection) and smart highway toll stations using ETC exclusively. A wide range of technologies developed on the basis of Advanced Safety Vehicle (ASV) research are also in application. The Public-Private ITS Initiative/Roadmaps policy initiative formulated by the Japanese government in June 2014 (and updated in May 2016) details measures to be taken for further ITS development under public-private cooperative efforts, with the focus on safe-driving support as well as automated driving systems and on the expanded use of road traffic data. To achieve the stipulated goals, coordinated interministerial and inter-agency efforts, including the upgrading of communication infrastructures, are required.

INTRODUCTION OF ROAD-TO-VEHICLE SAFE-DRIVING SUPPORT SYSTEMS

Incorporating ITS technologies, road-to-vehicle (also referred to as "vehicle-to-infrastructure") systems providing safe-driving support and cruise assistance have been in operation in Japan since 2010-11. More recently, ETC 2.0, an advanced electronic toll collection system that also provides drivers with real-time information on traffic conditions, has been introduced, for use on intercity and intracity expressways.



*DSSS: "Driving Safety Support System"



Source: Universal Traffic Management Society of Japan

ETC 2.0 DEVICE-BASED SYSTEM FEATURES (EXAMPLES)



Sources: Ministry of Land, Infrastructure, Transport and Tourism, etc.

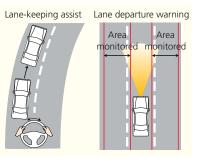
EXPANDING AVAILABILTY OF ASV TECHNOLOGIES IN THE MARKET

In the area of safe-driving assistance using ITS technologies, a wide range of vehicle safety features, including adaptive front-lighting systems, lane-keeping assist systems, full-range adaptive cruise control systems and collision-mitigation braking systems, have been developed based on the results of research conducted on the Advanced Safety Vehicle (ASV) concept. Most of these advanced technologies have already been introduced to the market (see page 39 for details on the status of their onboard installation).

PRACTICAL APPLICATION OF ASV TECHNOLOGIES

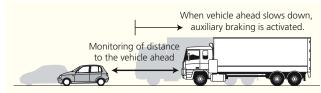
1. Lane-Keeping Assist

Sensors (cameras) positioned on the vehicle monitor the road ahead and, through auxiliary control of the steering wheel, help keep the vehicle centered in the lane whenever the vehicle deviates from its course because of, for example, a crosswind or road surface unevenness.



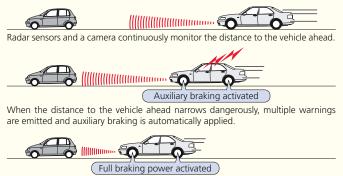
2. Full-Range Adaptive Cruise Control

Information from front sensors helps a vehicle keep a safe distance from the vehicle ahead through brake or speed control according to a preset vehicle speed.



3. Collision-Mitigation Braking System (pre-crash safety)

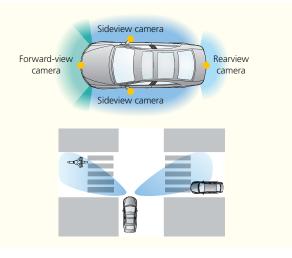
Based on the distance from and speed relative to the vehicle ahead obtained principally by means of radar technology, the system's electronic control unit calculates the risk of collision. In the event of such a risk, multiple warnings are emitted and auxiliary braking is applied. When a collision is imminent, full braking power is applied and seatbelts are retracted automatically.



When a collision is imminent, full braking power is automatically applied and seatbelts are rapidly retracted.

4. Vehicle Perimeter Monitoring & Blind-Corner Monitoring

In blind-corner monitoring (bottom image), front cameras with built-in prisms transmit both left and right views to the in-cabin display screen.



THE TRANSITION TO AUTOMATED DRIVING

In November 2015, JAMA released a roadmap for achieving safe and efficient road transport for all road users in Japan through the use of automated driving. Targeting the elimination of accidents and congestion and optimized road and vehicle use for people and the transport of goods, the roadmap envisions the wider introduction of automated driving functions in the lead-up to 2020; between 2020 and 2030, the expanded application of automated driving technologies in various driving environments; and by 2050, predicated on full public acceptance which Japan's automakers will promote, a comprehensive deployment of advanced levels of automated driving, the result of integrated efforts on the part of industry, government, and academia.

ACHIEVING THE "ZEROS"

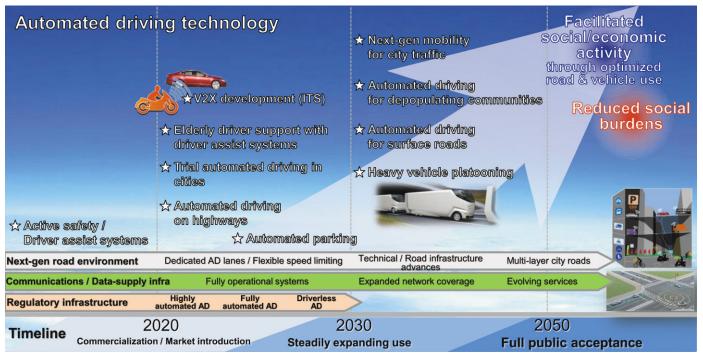
Zero accidents

Zero congestion

RESOLVING RELATED ISSUES

Enabling optimally independent mobility Enabling efficient freight transport Solutions through advances in technology

THE JAMA ROADMAP FOR THE PROMOTION OF AUTOMATED DRIVING

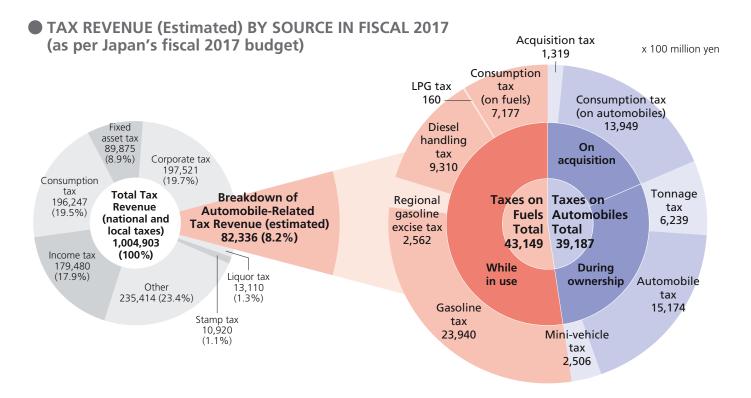


Note: "V2X" means vehicle-to-connected infrastructure

Source: Japan Automobile Manufacturers Association

8 Trillion Yen in Annual Automobile-Related Tax Revenue

Since the initial earmarking of funds for road construction and road maintenance programs in line with Japan's first five-year road improvement plan in 1954, there has been a steady increase both in the number of automobile-related taxes assessed on users and in their respective rates. Currently, the automobile tax structure consists of nine different taxes, creating a very heavy tax burden for motor vehicle owners in Japan. Under the government's budget for fiscal 2017, the total value of tax revenue from these automobile-related taxes has been estimated at 8.2 trillion yen, or 8.2% of Japan's projected total tax revenue of 100 trillion yen in fiscal 2017.



Notes: 1. Automobile-related consumption tax revenue is not included in the "Consumption tax" segment in the chart on the left, but is included in the breakdown of automobile-related tax revenue appearing in the chart on the right. 2. Automobile-related consumption tax revenue values (including the consumption tax revenue from automobile servicing, not shown but included in figures here) have been calculated by JAMA. 3. The consumption tax is a national sales tax, of which 1.7% of the revenue is redistributed as revenue to local governments. Sources: Ministry of Internal Affairs and Communications

AUTOMOBILE-RELATED TAXES IN JAPAN (as of May 1, 2017)

Tax Category	On Acquisitio	on	During Ownership
Tax category	Acquisition Tax	Consumption Tax	Tonnage Tax
How Assessed	Assessed on the acquisition of an automobile, whether new or used, based on the purchase price	Assessed on the purchase price of the automobile	Assessed according to vehicle weight at each mandatory vehicle inspection
National/Local Tax	Prefectural tax	National and local tax	National tax
Tax Rate/ Amount	 (Private use) - 3% of purchase price (2% for commercial vehicles and mini-vehicles) - Exempted for vehicles purchased for ¥500,000 or less Note: For eco-friendly vehicles, reductions/exemptions apply to the acquisition tax (see pages 48-51). 	8% (of which 1.7% is a local tax)	 Only eco-friendly vehicles and new passenger cars and small trucks and buses (GVW≤2.5t) compliant +5% with 2015 fuel efficiency standards, with emissions down by 75% from 2005 standards or by 50% from 2018 standards: ¥2,500/0.5t/year for private-use passenger cars (i.e., base rate) Vehicles on the road 18 years or longer since first registration: ¥6,300/0.5t/year for private-use passenger cars Vehicles on the road 13 years or longer since first registration: ¥5,700/0.5t/year for private-use passenger cars Vehicles on the road 13 years or longer since first registration: ¥5,700/0.5t/year for private-use passenger cars Other vehicles for private use: - Passenger cars: ¥4,100/0.5t/year Trucks (GVW>2.5t): ¥4,100/t/year; Trucks (GVW≤2.5t): ¥3,300/t/year Buses: ¥4,100/t/year; Mini-vehicles: ¥3,300/year Motorcycles (126 to 250cc): ¥4,900 upon registration Note: For eco-friendly vehicles, reductions/exemptions apply to the tonnage tax (see pages 48-51).

● JAPAN'S ESTIMATED AUTOMOBILE-RELATED TAX REVENUE IN FISCAL 2017

			Tax Revenue (x 100 million yen)	Base Tax Rate (for reference)	Current Tax Rate	Comparison with Base Tax Rate (multiplier value)
Taxes on	On	Acquisition tax	1,319	3%	3% (Excluding commercial/mini-vehicles)	1.0
Automobiles	acquisition	Consumption tax (on automobiles)	13,949	8	%	
	During ownership	Tonnage tax	6,239	¥2,500/0.5t/year (Vehicles for private use)	¥4,100/0.5t/year (Vehicles for private use)	1.6
		Automobile tax	15,174	Based on engine capacity (e.g., for 1,001≤1,500cc passenger cars, ¥34,500/year; see below)		
		Mini-vehicle tax	2,506	¥10,800/year (Passen	ger cars for private use)	
		Total	39,187		· · · ·	
Taxes on	While	Gasoline tax	23,940	¥24.3/ℓ	¥48.6/l	2.0
Fuels	in use	Regional gasoline excise tax	2,562	¥4.4/l	¥5.2/l	1.2
		Diesel handling tax	9,310	¥15.0/ℓ	¥32.1/l	2.1
		LPG tax	160	¥17.	5/kg	
		Consumption tax (on fuels)	7,177	8	%	
		Total	43,149			
Grand Total			82,336			

Notes: 1. Consumption tax revenue values (including the consumption tax revenue from automobile servicing, not shown but included in figures here) have been calculated by JAMA. 2. Current tax rates effective as of May 1, 2017.

• TAX RATES IN EFFECT (Examples), 1954-2017, TO SUPPORT ROAD NETWORK IMPROVEMENTS

Duration	"Five-Year" Plan	Fiscal Year	Acquisition Tax	Tonnage Tax ¥/0.5t/year	Gasoline Tax ¥/ℓ	Regional Gasoline Excise Tax ¥/ℓ	Diesel Handling Tax ¥/१	LPG Tax ¥/kg
1954-57	First	′54 ′55 ′56 ′57			13.0 11.0 ↓ 14.8	2.0 ↓ 3.5	6.0 8.0	
1958-60	Second	<i>'</i> 59			↓ 19.2		↓ 10.4	
1961-63	Third	<i>'</i> 61	[Commercial and mini- vehicles	[In the case of a passenger car for	¥ 22.1	4.0	↓ 12.5	
1964-66	Fourth	'64 '66	excluded]	private use]	24.3	4.4	15.0	5
1967-69	Fifth	'67 '68	3%					10 ↓
1970-72	Sixth	′70 ′71		2,500	Ļ	Ļ		17.5
1973-77	Seventh	'74 '76	5%	5,000	29.2 36.5	5.3 6.6	↓ 19.5	
1978-82	Eighth	'79		0,500	45.6	8.2	24.3	
1983-87								
1988-92	Tenth				t t	+	ł	
1993-97	Eleventh	'93			48.6	5.2	32.1	
1998-2002	Twelfth	'98						
2003-07	As per the national priority infrastructure development plan							
2008-	As per the national medium-term road infrastructure plan			∳ 6,300				
2010-11	—			5,000				
2012-13				4,100 (2,500)				
2014-16	—		•	4,100 (2,500)	+	+	+	+
2017-	—		3%	4,100 (2,500*)	48.6	5.2	32.1	17.5
Com	parison with base tax rate (multiplier value)		1.00	1.64	2.00	1.18	2.14	1.00

Base tax rate

*The base tonnage tax rate (¥2,500/0.5t/year) is applied only to eco-friendly vehicles and new passenger cars and small trucks and buses (GVW≤2.5t) compliant +5% with 2015 fuel efficiency standards, with emissions down by 75% from 2005 standards or by 50% from 2018 standards.

				While in Use		
Automobile Tax	Mini-Vehicle Tax	Gasoline Tax			LPG Tax	Consumption Tax
Fixed amount assessed on the owner each year as of April 1	Fixed amount assessed on the owner each year as of April 1	Assessed on gas	soline	Assessed on light oil	Assessed on LPG	Assessed on the purchase
		Included in the	fuel price			price of fuels
Prefectural tax	Municipal tax	National tax		Prefectural tax	National tax	National and local tax
Passenger cars (for private use) - Up to 1,000cc ¥29,500/year - 1,001 to 1,500cc ¥34,500/year - 1,501 to 2,000cc ¥39,500/year - 2,001 to 2,500cc ¥45,000/year - 2,501 to 3,000cc ¥51,000/year - 3,001 to 3,500cc ¥58,000/year - 3,501 to 4,000cc ¥66,500/year - 4,001 to 4,500cc ¥76,500/year - 4,501 to 6,000cc ¥111,000/year - Over 6,000cc ¥111,000/year Note: For some eco-friendly vehicles, reductions apply to the automobile tax (see page 51).	 Mini-vehicles (for private use) Passenger cars ¥10,800/year Trucks ¥5,000/year Note: Above tax rates apply to vehicles newly registered in or after fiscal 2015 and take effect from fiscal 2016. Motorcycles Up to 50cc ¥2,000/year 51 to 90cc ¥2,000/year 91 to 125cc ¥2,400/year 126 to 250cc ¥3,600/year 251 cc and over ¥6,000/year Note: For some eco-friendly mini-vehicles, reductions apply to the mini-vehicle tax (see page 51). 	¥48.6/l	¥5.2/ℓ	¥32.1/ℓ (light oil)	¥17.5/kg (LPG)	8% of the purchase price of fuels (of which 1.7% is a local tax) [For light oil, imposed on the light oil price excluding the diesel handling tax]

Source: Japan Automobile Manufacturers Association

Tax Incentives to Promote the Wider Use of Eco-Friendly Vehicles

To help expedite the shift to low-carbon road transport in the interest of curbing global warming and to help improve air quality, the Japanese government has, since April 2009, applied auto-related tax incentives to promote the wider use of eco-friendly vehicles. A new package of incentives, introduced for application beginning in April 2017, updates vehicle eligibility requirements and will be in effect for the next two years.

INCENTIVES & ELIGIBILITY REQUIREMENTS

ACQUISITION AND TONNAGE TAX REDUCTIONS/EXEMPTIONS

Period in effect: April 1, 2017 through March 31, 2019 for the acquisition tax; May 1, 2017 through April 30, 2019 for the tonnage tax.

Alternative-		Electric vehicles/Fuel cell vehicles/Plug-in hybrid vehicles/ Clean diesel passenger cars (1)/Natural gas vehicles (2)					
Energy Vehicles	Acquisition	New vehicles	Exempt				
Passenger Cars; Small,	Тах	Used vehicles	¥450,000 deduction				
Mid-Sized & Heavy-Duty Trucks and Buses	Tonna	ge Tax	Exempt on initial inspection mandated for new vehicle purchase and at time of 1st vehicle inspection post-purchase				

(1) Only vehicles complying with 2009 or 2018 emission standards. (2) With NOx emissions down by 10% from 2009 emission standards, or complying with 2018 emission standards.

Passenger Cars			from	or ons down by 75% 2005 standards	Emissions down b from 2018 stand	dards	
	vehicles/ ehicles g hybrids)	Compliant +40% with 2020 fuel efficiency standards	Compliant +30% with 2020 fuel efficiency standards	Compliant +20% with 2020 fuel efficiency standards	Compliant +10% with 2020 fuel efficiency standards	Compliant with 2020 fuel efficiency standards	Compliant +10% with 2015 fuel efficiency standards
Acquisition	New vehicles	Exempt		60% reduction	40% reduction	20% reduction	
Tax Used vehicles		¥450,000 deduction		¥250,000 deduction	¥150,000 deduction	¥50,000 deduction	
Tonnage Tax		Exer	npt*	75% reduction	50% reduction	25% reduction	

*For vehicles compliant +40% with 2020 fuel efficiency standards, exemption applies on initial inspection mandated for new vehicle purchase and at time of 1st vehicle inspection postpurchase; for vehicles compliant +30% with 2020 fuel efficiency standards, exemption applies only on initial inspection mandated for new vehicle purchase. Note: Incentives and eligibility requirements as shown in the above chart will be in effect from April 1, 2017 through March 31, 2018 for the acquisition tax, and from May 1, 2017

through April 30, 2018 for the tonnage tax; a second phase of incentives and eligibility requirements for passenger cars will be in effect starting in April 2018 (see page 50).

Small and E (GVW		REAL CONTRACT	Emissions down from 2005 sta	by 75% Emission:	B B B B B B B B B B B B B B B B B B B	(1200年) 21月登望 (4503年日3)
Gasoline (including		Compliant +25% with 2015 fuel efficiency standards	Compliant +20% with 2015 fuel efficiency standards		Compliant +10% with 2015 fuel efficiency standards	Compliant +5% with 2015 fuel efficiency standards
Acquisition	New vehicles	Exempt	80% reduction	60% reduction	40% reduction	20% reduction
Tax Used vehicles		¥450,000 deduction	¥350,000 deduction	¥250,000 deduction	¥150,000 deduction	¥50,000 deduction
Tonnage Tax		Exempt*	75% reduction	50% reduction	25% re	duction

*Exemption applies on initial inspection mandated for new vehicle purchase and at time of 1st vehicle inspection post-purchase.

Fuel consumption and exhaust emission requirements are currently JC08 test cycle-based. For the purpose of assessing the acquisition tax on used passenger cars and on used small trucks and buses ($GVW \le 2.5t$) whose certified fuel efficiency was measured in the old 10•15-mode test cycle, the equivalence of JC08 test cycle-obtained fuel efficiency values to the 10•15-mode test cycle as listed in the two charts below is applied.

For	passenge	r cars:

JC08 Test Cycle-Obtained Fuel Efficiency Value Equivalence to the 10•15-Mode Test Cycle	
Job Test Cycle-Obtained Fuel Efficiency value Equivalence to the 10-15-wode Test Cycle	<u>ا</u> و
Compliant +40% with 2020 fuel efficiency standards = Compliant +110% with 2010 fuel efficiency standards	lards
Compliant +30% with 2020 fuel efficiency standards = Compliant +95% with 2010 fuel efficiency standards	ards
Compliant +20% with 2020 fuel efficiency standards = Compliant +80% with 2010 fuel efficiency standards	ards
Compliant +10% with 2020 fuel efficiency standards = Compliant +65% with 2010 fuel efficiency standards	urds
Compliant with 2020 fuel efficiency standards = Compliant +50% with 2010 fuel efficiency standards	ards
Compliant +20% with 2015 fuel efficiency standards = Compliant +50% with 2010 fuel efficiency standards	urds
Compliant +10% with 2015 fuel efficiency standards = Compliant +38% with 2010 fuel efficiency standards	irds

For small trucks and buses (GVW≤2.5t):

JC08 Test Cycle-Obtained Fuel Efficiency Value	Equivalence to the 10.15-Mode Test Cycle
Compliant +25% with 2015 fuel efficiency standards =	Compliant +57% with 2010 fuel efficiency standards
Compliant +20% with 2015 fuel efficiency standards =	Compliant +50% with 2010 fuel efficiency standards
Compliant +15% with 2015 fuel efficiency standards =	Compliant +44% with 2010 fuel efficiency standards
Compliant +10% with 2015 fuel efficiency standards =	Compliant +38% with 2010 fuel efficiency standards
Compliant +5% with 2015 fuel efficiency standards =	Compliant +32% with 2010 fuel efficiency standards

			★★★★ 低排出ガス車 100×0×1×1×1×1×1×1×1×1×1×1×1×1×1×1×1×1×1				★★★ 低排出ガス車 ##204 mic24=80*** #2745#22	
Mid-		★★★★ 低排出ガス車 ■178 = #175 Mass	or 低那出ガス車 Martine with water	★★★ 低排出カス車 ***********************	or 低期出力ス車 MISSING Participation	***** 低期出ガス車	☆ ★ ★ ★ ★ 低排出ガス車	低新出力ス型 のr のr のr
Trucks ai (2.5t <gv< th=""><th>nd Buses /W≤3.5t)</th><th>Emissions down by 75% from 2005 standards</th><th>Emissions down by 50% from 2018 standards</th><th>Emissions down by 50% from 2005 standards</th><th>Emissions down by 25% from 2018 standards</th><th>Emissions down by 75% from 2005 standards</th><th>Emissions down by 50% from 2018 standards</th><th>Emissions down by 50% from 2005 standardsEmissions down by 25% from 2018 standards</th></gv<>	n d Buses /W≤3.5t)	Emissions down by 75% from 2005 standards	Emissions down by 50% from 2018 standards	Emissions down by 50% from 2005 standards	Emissions down by 25% from 2018 standards	Emissions down by 75% from 2005 standards	Emissions down by 50% from 2018 standards	Emissions down by 50% from 2005 standardsEmissions down by 25% from 2018 standards
		○日日7年年 思費基準 ◆15 %建成車	如何27年度 然費基準410%達成車	2月基本 415 %建成率	思世基本 410% 建成車	地區27年度 就費基準 (5 %達成車	^{9個27年度} 感費基準達成車	2003/992年 國資基準代552建度申
Gasoline (including	y ehicles g hybrids)	Compliant +15% with 2015 fuel efficiency standards	Compliant +10% with 2015 fuel efficiency standards	Compliant +15% with 2015 fuel efficiency standards	Compliant +10% with 2015 fuel efficiency standards	Compliant +5% with 2015 fuel efficiency standards	Compliant with 2015 fuel efficiency standards	Compliant +5% with 2015 fuel efficiency standards
Acquisition	Acquisition New vehicles		75% re	duction	50% reduction		25% reduction	
Tax Used vehicles		¥450,000 deduction	¥350,000	deduction	¥250,000	deduction	n ¥150,000 deduction	
Tonnage Tax Exempt* 75%		75% re	duction	50% re	eduction	duction 25% reduction		

*Exemption applies on initial inspection mandated for new vehicle purchase and at time of 1st vehicle inspection post-purchase.

Mid-Sized Trucks and Buses (2.5t <gvw≤3.5t)< th=""><th>NOx and PM emissions down by 10% from 2009 standards</th><th>r Compliant with 2018 emission standards</th><th>wit</th><th>npliant h 2009 hission ndards</th><th></th><th>NOx and PM emissions down by 10% from 2009 standards</th><th>Compliant with 2018 emission standards</th><th>Compliant with 2009 emission standards</th></gvw≤3.5t)<>		NOx and PM emissions down by 10% from 2009 standards	r Compliant with 2018 emission standards	wit	npliant h 2009 hission ndards		NOx and PM emissions down by 10% from 2009 standards	Compliant with 2018 emission standards	Compliant with 2009 emission standards
Diesel v (including		Compliant +15% with 2015 fuel efficiency standards	Compliant +10% with 2015 fuel	Compliant +15% with 2015 fuel	^{療費基準} Complia with 2	iant +10% 2015 fuel	Compliant +5% with 2015 fuel	のロジャル 燃費基準度成単 Compliant with 2015 fuel	Compliant +5% with 2015 fuel
Acquisition			efficiency standards 75% reduction		s efficiency	efficiency standards efficiency standards 50% reduction		efficiency standards efficiency standards 25% reduction	
Tax Used vehicles N/A N/A		/Α		N	Ά	N/A			
Tonnage Tax		Exempt*	75% re	duction		50% re	duction	25% reduction	

N/A: Not applicable. *Exemption applies on initial inspection mandated for new vehicle purchase and at time of 1st vehicle inspection post-purchase.

Heavy-Duty Trucks and Buses (GVW>3.5t)		1日代の中心	NOx and PM emissions down by 10% from 2009 standards	Compliant with 2016 emission standards	思想"""""
	vehicles g hybrids)	Compliant +15% with 2015 fuel efficiency standards	Compliant +10% with 2015 fuel efficiency standards	Compliant +5% with 2015 fuel efficiency standards	Compliant with 2015 fuel efficiency standards
Acquisition	New vehicles	Exempt	75% reduction	50% reduction	25% reduction
Tax Used vehicles (hybrid vehicles only)		¥450,000 deduction	¥350,000 deduction	¥250,000 deduction	¥150,000 deduction
Tonnage Tax		Exempt*	75% reduction	50% reduction	25% reduction

*Exemption applies on initial inspection mandated for new vehicle purchase and at time of 1st vehicle inspection post-purchase.

Notes concerning the charts on pages 48 and 49: 1. Acquisition tax reductions/exemptions are applied on initial inspection mandated for new vehicle purchase during the period in which the above reductions/exemptions are in effect; for used vehicles, deductions are made from vehicles' purchase price and the acquisition tax is assessed on the amount remaining after deduction. 2. Tonnage tax reductions are applied on initial inspection mandated for new vehicle purchase during the period in which the above reductions/exemptions are in effect. 3. Vehicles complying with or surpassing the fuel efficiency standards stipulated in Japan's Energy Conservation Law are identified with appropriately coded stickers. 4. Vehicles complying with or surpassing emission standards are certified by Japan's Ministry of Land, Infrastructure, Transport and Tourism.

ACQUISITION AND TONNAGE TAX REDUCTIONS/EXEMPTIONS

Starting in April 2018, the following updated incentives and eligibility requirements for passenger cars will come into effect.

Passeng	ger Cars	иелин жели + 4500 и и т		or ons down by 75% 2005 standards	Emissions down b from 2018 stand	y 50%	(日前)後日 思賀國学道成章
LPG ve	vehicles/ ehicles g hybrids)	Compliant +50% with 2020 fuel efficiency standards	Compliant +40% with 2020 fuel efficiency standards	Compliant +30% with 2020 fuel efficiency standards	Compliant +20% with 2020 fuel efficiency standards	Compliant +10% with 2020 fuel efficiency standards	Compliant with 2020 fuel efficiency standards
Acquisition	Acquisition New vehicles		Exempt		60% reduction	40% reduction	20% reduction
Tax Used vehicles		¥450,000 deduction		¥350,000 deduction ¥250,000 deduction		¥150,000 deduction	¥50,000 deduction
Tonnage Tax		Exen	npt*	75% re	75% reduction		25% reduction

*For vehicles compliant +50% with 2020 fuel efficiency standards, exemption applies on initial inspection mandated for new vehicle purchase and at time of 1st vehicle inspection postpurchase.

Note: Incentives and eligibility requirements as shown in the above chart will be in effect from April 1, 2018 through March 31, 2019 for the acquisition tax, and from May 1, 2018 through April 30, 2019 for the tonnage tax. (For incentives and eligibility requirements for alternative-energy passenger cars, see page 48.)

Passenger cars meeting the following performance criteria are not covered by the tax incentives for eco-friendly vehicles shown on pages 48-50, but when they undergo the initial inspection mandated for new vehicle purchase during the relevant "period in effect" stipulated below, they will be eligible for a tonnage tax reduction, in that the "base tax rate" rather than the (higher) "current tax rate" for the tonnage tax will be assessed on them (see page 47).

Period in Effect	Emissions Performance Criteria	Fuel Efficiency Performance Criteria	
May 1, 2017 through April 30, 2018	emissions down by 75% from 2005 standards or Emissions down by 50%	Compliant +5% with 2015 fuel efficiency standards	
May 1, 2018 through April 30, 2019	effilie eff	Compliant +10% with 2015 fuel efficiency standards	

Notes: 1. The provisions shown in the above chart were established in Japan's 2017 revised tax regimen and apply to qualifying passenger cars (excluding minicars and hybrids) only once, on initial inspection mandated for new vehicle purchase. Prior to the establishment of these provisions, the "current tax rate" for the tonnage tax was assessed on vehicles not covered by the tax incentives for eco-friendly vehicles. 2. Example of the amount assessed when the base tonnage tax rate is applied over a three-year period in the case of a qualifying 1.5-ton passenger car for private use: ¥22,500 (as opposed to the ¥36,900 assessed at the "current tax rate").

ACQUISITION AND TONNAGE TAX REDUCTIONS/EXEMPTIONS

(Heavy-Duty Vehicles Equipped with Advanced Safety Features and Public-Use Assisted-Mobility Vehicles) Period in effect: April 1, 2017 through March 31, 2019 for the acquisition tax; May 1, 2015 through April 30, 2018 for the tonnage tax.

			Reductions/Exemptions				
	Vehicle Type		Acquisition Tax	Tonnage Tax			
Buses (GVW	<gvw≤22t) /≤12t, for seated passengers only) ith a collision-mitigation braking system</gvw≤22t) 	Equipped with either of the two systems	¥3.5 million deduction from purchase price (1), (2)	50% reduction (1), (3)			
	ectronic stability control system	Equipped with both systems	¥5.25 million deduction from purchase price (1), (2)	75% reduction (1), (3)			
Assisted-	Low-floor ("non-step") buses (for use in	public transport)	¥10 million deduction from purchase price (2)	Exempt (3)			
Mobility Vehicles	Buses equipped with an electric lift (for	use in public transport)	 For large buses (occupancy≥30 persons), ¥6.5 million deduction from purchase price (2) For small buses (occupancy<30 persons), ¥2 million deduction from purchase price (2) 	Exempt (3)			
	Universal design-based taxis (for use in p	public transport)	¥1.0 million deduction from purchase price (2)	Exempt (3)			

(1) Large trucks (20t<GVW≤22t) equipped with both systems are eligible only for the acquisition tax incentive of a ¥3.5 million deduction from vehicle purchase price and the tonnage tax incentive of a 50% reduction from the applicable tonnage tax rate. Eligibility for small buses (GVW≤5t, for seated passengers only) requires that they be equipped with a collision-mitigation braking system. (2) Deductions are applied once, at the time of first registration. (3) Tonnage tax reductions/exemptions are applied once, on initial inspection mandated for new vehicle purchase during the period in which these reductions/exemptions are in effect.

Notes: 1. The acquisition tax is assessed on the amount remaining after deduction. 2. The above tonnage tax reductions/exemptions do not apply to vehicles targeted by this scheme that are eligible for the tonnage tax reductions/exemptions prescribed for eco-friendly vehicles (see pages 48 and 49), to which the latter measures only are applied. Regarding the acquisition tax, owners of vehicles covered under this scheme can opt either for the deductions indicated here or for the acquisition tax reductions/exemptions prescribed for eco-friendly vehicles (see pages 48 and 49), to which the latter measures only are applied. 48 and 49).

FISCAL 2017 & 2018 AUTOMOBILE TAX REDUCTIONS (Passenger Cars and Trucks & Buses)

	Requirements							
Passenger Cars	Electric vehicles/Fuel cell vehicles/Plug-in hybrid vehicles/ Clean diesel passenger cars (1)/Natural gas vehicles (2) Compliant +30% with 2020 fuel efficiency standards, with emissions down by 75% from 2005 standards or down by 50% from 2018 standards	75% reduction (4)						
	Compliant +10% with 2020 fuel efficiency standards, with emissions down by 75% from 2005 standards or down by 50% from 2018 standards	50% reduction (4)						
Trucks & Buses	Electric vehicles/Fuel cell vehicles/Plug-in hybrid vehicles/Natural gas vehicles (3)	75% reduction (4)						

(1) Only vehicles complying with 2009 emission standards. (2) With NOx emissions down by 10% from 2009 emission standards. (3) With NOx emissions down by 10% from 2009 emission standards, or complying with 2018 emission standards. (4) Reductions effective on initial inspection mandated for new vehicle purchase to be applied in the fiscal year following the year of purchase.

Note: This scheme also mandates a yearly 15% (10% for trucks and buses) surcharge on the automobile tax for gasoline and LPG-powered vehicles on the road 13 years or longer, and for diesel vehicles on the road 11 years or longer, since first registration; electric vehicles, fuel cell vehicles, natural gas vehicles, methanol vehicles, gasoline hybrid vehicles, public transport buses and trailers are exempt

FISCAL 2017 & 2018 MINI-VEHICLE TAX REDUCTIONS (Minicars and Mini-Trucks) *

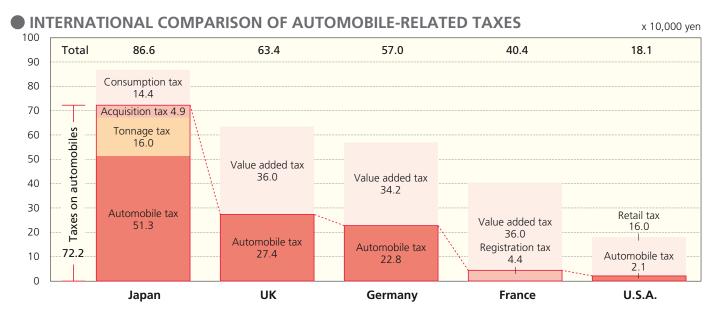
	Requirements	Reduction
Minicars	Electric vehicles/Fuel cell vehicles/Natural gas vehicles (1)	75% reduction (2)
	Compliant +30% with 2020 fuel efficiency standards, with emissions down by 75% from 2005 standards or down by 50% from 2018 standards	50% reduction (2)
	Compliant +10% with 2020 fuel efficiency standards, with emissions down by 75% from 2005 standards or down by 50% from 2018 standards	25% reduction (2)
Mini- Trucks	Electric vehicles/Fuel cell vehicles/Natural gas vehicles (1)	75% reduction (2)
	Compliant +35% with 2015 fuel efficiency standards, with emissions down by 75% from 2005 standards or down by 50% from 2018 standards	50% reduction (2)
	Compliant +15% with 2015 fuel efficiency standards, with emissions down by 75% from 2005 standards or down by 50% from 2018 standards	25% reduction (2)

^{*}Applies only to newly registered three- or four-wheeled mini-vehicles. (1) With NOx emissions down by 10% from 2009 emission standards, or complying with 2018 emission standards. (2) Reductions effective on initial inspection mandated for new vehicle purchase to be applied in the fiscal year following the year of purchase.

Note: This scheme also mandates a yearly 20% surcharge on the mini-vehicle tax for mini-vehicles on the road 13 years or longer since first registration; electric vehicles, fuel cell vehicles, natural gas vehicles, methanol vehicles, gasoline hybrid vehicles and trailers are exempt.

Automobile-Related Taxes Are Onerous

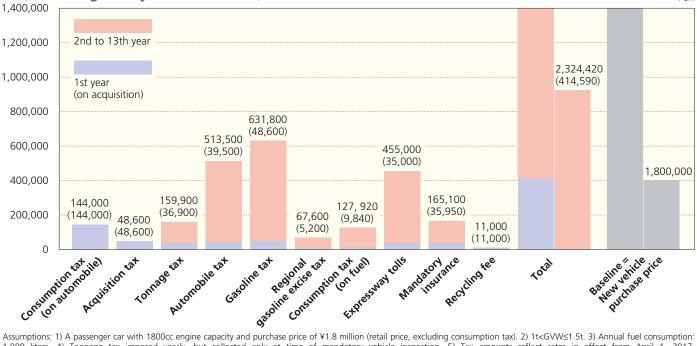
Consider the case of a passenger car costing 1.8 million yen when purchased new and providing 13 years of service to the original owner for private use. During that period, six different categories of taxes (including consumption tax at the time of vehicle purchase and on fuel) will be assessed on the owner/user, amounting to a grand total of roughly 1.7 million yen. In addition to these various taxes, the user will also be required to pay onerous expressway tolls, automobile insurance premiums (mandatory and optional), a recycling fee, periodic inspection fees, and maintenance costs.



Assumptions: 1) Engine capacity: 1800cc. 2) 1t<GVW \leq 1.5t. 3) Purchase price: ¥1.8 million. 4) Fuel consumption (JC08 test cycle-based): 15.5km/ ℓ (CO2 emissions: 150g/km). 5) France = Paris; U.S.A. = New York City. 6) France: Vehicle in no. 8 horsepower "class." 7) Service life: 13 years. 8) Currency exchange rates: EUR 1 = JPY 120, GBP 1 = JPY 146, USD 1 = JPY 109 (averaged April 2016-March 2017).

Notes: 1. As shown here, tax amounts other than Japan's may not be the most current. 2. Does not include applicable incentives/surcharges, if any. 3. Does not include registration fees. 4. Automobile tax on private vehicles (i.e., for personal use only) was abolished in France as of 2000. Source: Japan Automobile Manufacturers Association

TAXES ASSESSED ON PASSENGER CAR OWNERSHIP/USE (PRIVATE) (assuming a 13-year service life)



Assumptions: 1) A passenger car with 1800cc engine capacity and purchase price of ¥1.8 million (retail price, excluding consumption tax). 2) $1t < GVW \le 1.5t$. 3) Annual fuel consumption: 1,000 liters. 4) Tonnage tax imposed yearly, but collected only at time of mandatory vehicle inspection. 5) Tax amounts reflect rates in effect from April 1, 2017. 6) Consumption tax = 8% of retail price. 7) The recycling fee indicated is the average rate for an 1800cc passenger car. Notes: 1. Estimated expressway tolls, mandatory insurance premium payments and recycling fee are included here because they can be considered similar to taxes. (Mandatory insurance premium values indicated effective as of April 1, 2017.) 2. Value of expressway tolls was estimated by JAMA based on expressway toll revenue in 2015.

Source: Japan Automobile Manufacturers Association

Yen

The 45th Tokyo Motor Show 2017 to Be Held in October at Tokyo Big Sight

The 45th Tokyo Motor Show 2017 will be held at Tokyo Big Sight in Tokyo's Ariake waterfront area from October 27 (October 28 for the general public) through November 5, 2017. With "BEYOND THE MOTOR" as its theme, the show will cover passenger cars, commercial vehicles, motorcycles, auto bodies and coach work, auto parts, machinery and tools, and auto-related services. Extending the existing values of mobility is the vision that underpins the organizer's objective of redefining the show within the context of continuous evolution. Accordingly, the aim will be to transcend auto industry "borders" to integrate a multiplicity of concepts and technologies from a broad spectrum. The new "Tokyo Connected Lab 2017" special exhibit will explore how connected mobility and related services will change people's lifestyles, offering not only convenience and enjoyment but also added value, in an ever-evolving megacity such as Tokyo. Making a dynamic new start in 2017, the Tokyo Motor Show will in the years ahead provide an exciting, stimulating experience to seasoned motor show visitors and novices alike.

No.	Year	Dates held (month/day)	Duration (days)	Venue	Number of visitors	No.	Year	Dates held (month/day)	Duration (days)	Venue	Number of visitors
1	1954	Apr. 20-Apr. 29	10	Hibiya	547,000	23	1979	Nov. 01-Nov. 12	12	Harumi	1,003,100
2	1955	May 07-May 18	12	11	784,800	24	1981	Oct. 30-Nov. 10	12	11	1,114,200
3	1956	Apr. 20-Apr. 29	10	11	598,300	25	1983	Oct. 28-Nov. 08	12	11	1,200,400
4	1957	May 09-May 19	11	11	527,200	26	1985	Oct. 31-Nov. 11	12	11	1,291,500
5	1958	Oct. 10-Oct. 20	11	Korakuen	519,400	27	1987	Oct. 29-Nov. 09	12	11	1,297,200
6	1959	Oct. 24-Nov. 04	12	Harumi	653,000	28	1989	Oct. 26-Nov. 06	12	Makuhari	1,924,200
7	1960	Oct. 25-Nov. 07	14	11	812,400	29	1991	Oct. 25-Nov. 08	15	11	2,018,500
8	1961	Oct. 25-Nov. 07	14	11	952,100	30	1993	Oct. 22-Nov. 05	15	11	1,810,600
9	1962	Oct. 25-Nov. 07	14	11	1,049,100	31	1995	Oct. 27-Nov. 08	13	11	1,523,300
10	1963	Oct. 26-Nov. 10	16	11	1,216,900	32	1997	Oct. 24-Nov. 05	13	11	1,515,400
11	1964	Sep. 26-Oct. 09	14	11	1,161,000	33	1999	Oct. 22-Nov. 03	13	11	1,386,400
12	1965	Oct. 29-Nov. 11	14	11	1,465,800	34	2000	Oct. 31-Nov. 04	5	11	177,900
13	1966	Oct. 26-Nov. 08	14	11	1,502,300	35	2001	Oct. 26-Nov. 07	13	11	1,276,900
14	1967	Oct. 26-Nov. 08	14	11	1,402,500	36	2002	Oct. 29-Nov. 03	6	11	211,100
15	1968	Oct. 26-Nov. 11	17	11	1,511,600	37	2003	Oct. 24-Nov. 05	13	11	1,420,400
16	1969	Oct. 24-Nov. 06	14	11	1,523,500	38	2004	Nov. 02-Nov. 07	6	11	248,600
17	1970	Oct. 30-Nov. 12	14	11	1,452,900	39	2005	Oct. 21-Nov. 06	17	11	1,512,100
18	1971	Oct. 29-Nov. 11	14	11	1,351,500	40	2007	Oct. 26-Nov. 11	17	11	1,425,800
19	1972	Oct. 23-Nov. 05	14	11	1,261,400	41	2009	Oct. 23-Nov. 04	13	11	614,400
20	1973	Oct. 30-Nov. 12	14	11	1,223,000	42	2011	Dec. 02-Dec. 11	10	Ariake	842,600
21	1975	Oct. 31-Nov. 10	11	11	981,400	43	2013	Nov. 22-Dec. 01	10	11	902,800
22	1977	Oct. 28-Nov. 07	11	11	992,100	44	2015	Oct. 29-Nov. 08	11	11	812,500

TOKYO MOTOR SHOW HISTORICAL DATA

Note: From the 33rd Tokyo Motor Show through the 39th, passenger cars and motorcycles were exhibited in one show and commercial vehicles in another, in alternate years.

• FIVE MAJOR INTERNATIONAL MOTOR SHOWS AND THEIR LATEST DATA

Abbreviated Name	The 2015 Tokyo Motor Show	The 2015 Frankfurt Motor Show	The 2016 Geneva Motor Show	The 2016 Paris Motor Show	The 2017 Detroit Motor Show	
Official Name	Tokyo Motor Show	Internationale Automobil- Ausstellung	Salon international de l'automobile et accessoires de Genève	Mondial de l'Automobile, Paris	North American International Auto Show	
Organizer	Japan Automobile Manufacturers Association	Verband der Automobilindustrie (VDA)	Palexpo	AMC Promotion	Detroit Auto Dealers Association, LLC	
Venue	Venue Tokyo Big Sight Mo		Geneva Palexpo	Paris Expo (Porte de Versailles)	Cobo Exhibition Center	
Duration (excluding press days)	11 days	11 days	11 days	16 days	9 days	
Frequency/ Period Held	Biennial Late Oct. to early Nov.	Biennial Mid to late Sep.	Annual Early to mid Mar.	Biennial Early to mid Oct.	Annual Early to mid Jan.	
Number of Visitors (excluding press)	812,500	931,700	691,000	1,072,700	806,600	
Number of Exhibitors	160 manufacturers	560 manufacturers	140 manufacturers	—	—	
Exhibits	Passenger cars Commercial vehicles Motorcycles Auto bodies & parts, machinery & tools "Smart Mobility City 2015"	Passenger cars Motorcycles Auto parts	Passenger cars Auto parts & accessories	Passenger cars Commercial vehicles Auto parts	Passenger cars Auto parts	

Note: "-" means data is not available at the end of March 2017.

Global Manufacturing Operations Expand Their Range

Japanese automobile manufacturers have continued to develop local production operations, whether as whollyowned subsidiaries or as joint ventures, in the United States, Europe, Southeast Asia, China and, recently, Russia and other countries with emerging markets. These operations contribute to the strengthening of local economies

GEOGRAPHICAL DISTRIBUTION OF JAPANESE AUTOMAKERS' OVERSEAS PRODUCTION BASES



JAPANESE AUTOMAKERS' OVERSEAS PRODUCTION BASES: Number of Plants by Country &

Country/ Territory (see map)		Motor Vehicles (incl. parts)			Parts Only
Europe					
Czech Republic	1	1	-	-	-
France	2	1	1	-	-
Hungary	3	1	-	-	-
Italy	4	-	1	-	1
Poland	5	-	-	-	2
Portugal	6	2	-	-	-
Russia	7	6	-	-	-
Spain	8	1	-	-	1
Turkey 9		4	-	-	-
UK	10	3	-	-	1
Europe Total		19	2	-	5

Country/ Territory Country No. (see map)		Motor Vehicles (incl. parts)	Motor- cycles (incl. parts)	Motor Vehicles & Motorcycles (incl. parts)	Parts Only
Africa					
Egypt	11	5	-	-	-
Kenya	12	3	1		-
Mauritius	13	1	-	-	-
Morocco	14	1	-	-	-
Nigeria	15	1	2		-
South Africa	16	5	-	-	-
Africa Total		16	3	-	-
Middle East					
Saudi Arabia	17	1	-	-	-
Middle East Total		1	-	-	-
Oceania					
Australia	18	1	-	-	1
Oceania Total		1	-	-	1

through employment creation, local parts purchasing and, in many cases, export revenue for the host countries. Locally-produced automobile parts such as engines and transmissions, as well as finished vehicles of some models, are exported to Japan and other destinations.



Items Produced

Country/ Territory	Torritory (coo mon)		Motor Motor- ehicles cycles cl. parts) (incl. parts)		Parts Only
Asia					
Bangladesh	19	2	2	-	-
Cambodia	20	-	2	-	-
China	21	23	8	-	16
India	22	12	7	-	2
Indonesia	23	14	7	1	11
Laos	24	-	1	-	-
Malaysia	25	12	2	-	2
Myanmar	26	1	-	-	-
Pakistan	27	5	3	1	-
Philippines	28	6	4	-	4
Taiwan	29	8	2	-	-
Thailand	Thailand 30		4	-	7
Vietnam 31		8	3	2	1
Asia Total		107	45	4	43

Country/ Territory (see map)				Motor Vehicles & Motorcycles (incl. parts)	Parts Only
North America					
Canada	32	5	-		2
U.S.A.	33	13	1	-	12
North America Total		18	1	-	14
Latin America					
Argentina	34	1	2	1	-
Brazil	35	8	4	-	3
Colombia	36	1	2	-	-
Ecuador	37	2	-	-	-
Mexico	38	7	1	1	-
Peru	39	-	1	-	-
Venezuela	40	1	-	-	-
Latin America Total	20	10 2		3	
World Total		182	61	6 66	

Source: Japan Automobile Manufacturers Association

Japanese Automakers' Overseas Production Rises for Seventh Consecutive Year

The global operations of Japanese automobile manufacturers continue to grow, focusing on on-site manufacturing to meet local needs. Whether as independent operations, joint ventures or technical tie-ups, local manufacturing activities are conducted in numerous countries around the world (see pages 54-55). In 2016 Japanese automakers' overseas production totalled nearly 19 million units, with Asia and Europe seeing the most significant increases.

• OVERSEAS PRODUCTION BY JAPANESE AUTOMOBILE MANUFACTURERS

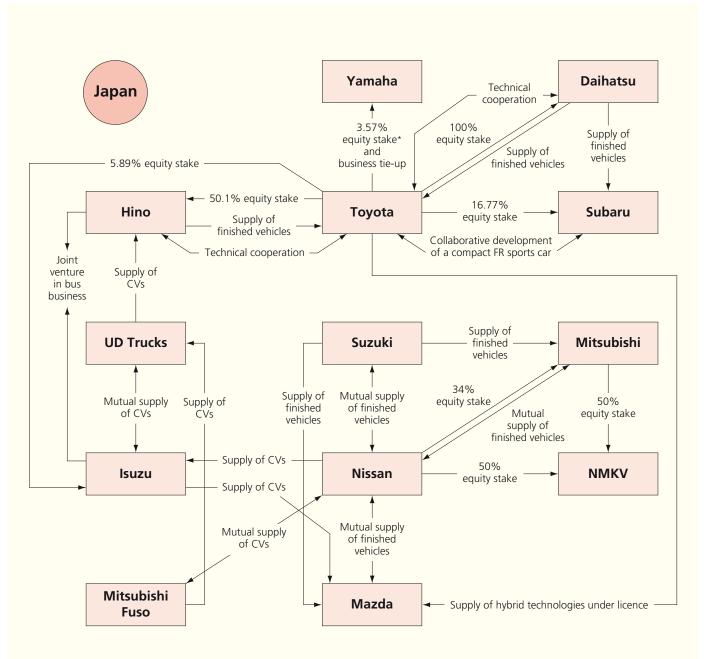
In vehicle units

		Middle	-		North		Latin			T ()
Year	Asia	East	Europe	EU	America	U.S.A.	America	Africa	Oceania	Total
1985	208,589		44,658	43,175	296,569	296,569	90,252	99,500	151,574	891,142
1986	282,912	—	75,163	73,903	426,087	425,644	87,115	119,000	133,109	1,123,386
1987	355,758	—	102,943	100,794	608,446	592,761	104,925	134,000	127,003	1,433,075
1988	456,489	—	132,129	130,326	723,396	672,766	125,531	145,000	152,334	1,734,879
1989	597,402	—	205,005	203,215	1,040,868	932,242	144,811	184,500	166,541	2,339,127
1990	952,390	—	226,613	223,164	1,570,114	1,298,878	160,654	186,000	169,169	3,264,940
1991	1,035,715	—	285,994	282,278	1,684,964	1,378,907	169,001	172,000	134,051	3,481,725
1992	1,120,430	—	358,601	351,296	1,853,097	1,547,361	195,161	167,500	109,276	3,804,065
1993	1,315,346	—	496,574	472,744	2,030,478	1,691,239	211,802	179,000	106,754	4,339,954
1994	1,553,585	_	502,332	477,728	2,346,619	1,982,209	197,325	168,000	128,213	4,896,074
1995	1,882,850	—	641,573	575,852	2,595,436	2,215,657	110,660	226,000	102,961	5,559,480
1996	1,950,621	—	738,378	650,990	2,641,451	2,275,525	140,031	195,674	118,097	5,784,252
1997	2,003,286	—	814,689	714,699	2,664,588	2,290,685	190,596	182,218	136,107	5,991,484
1998	1,215,202	5,688	920,985	814,847	2,674,299	2,270,516	260,131	144,181	150,685	5,371,171
1999	1,547,671	3,493	929,303	835,582	2,797,175	2,311,163	246,710	130,216	125,575	5,780,143
2000	1,673,740	4,258	953,170	837,679	2,991,924	2,480,691	387,732	146,435	130,933	6,288,192
2001	1,872,521	5,660	1,032,004	939,034	3,061,612	2,451,496	407,887	162,825	137,084	6,679,593
2002	2,380,621	6,000	1,153,059	1,015,748	3,375,453	2,720,449	445,862	155,973	135,498	7,652,466
2003	3,007,348	5,820	1,338,476	1,245,469	3,487,012	2,821,723	457,467	162,969	148,471	8,607,563
2004	3,638,978	10,800	1,454,903	1,296,516	3,840,744	3,143,603	534,863	191,537	125,726	9,797,551
2005	3,964,209	10,500	1,545,355	1,369,556	4,080,713	3,383,277	645,074	225,725	134,581	10,606,157
2006	4,129,856	11,400	1,702,836	1,509,402	4,001,639	3,281,073	745,827	259,050	121,635	10,972,243
2007	4,523,751	3,342	1,976,407	1,789,875	4,049,068	3,324,326	895,099	252,332	159,710	11,859,709
2008	4,877,074	0	1,876,109	1,693,151	3,576,246	2,893,466	920,738	257,646	143,741	11,651,554
2009	5,145,418	0	1,228,294	1,136,145	2,687,527	2,108,161	790,794	168,651	96,836	10,117,520
2010	7,127,042	0	1,356,126	1,250,226	3,390,095	2,653,231	982,342	206,476	119,473	13,181,554
2011	7,547,259	0	1,410,628	1,302,277	3,068,979	2,422,152	1,029,511	233,709	93,675	13,383,761
2012	8,500,993	0	1,484,110	1,383,583	4,253,869	3,324,703	1,234,584	248,711	101,381	15,823,648
2013	9,056,388	0	1,537,025	1,379,733	4,540,685	3,627,226	1,284,187	232,191	106,278	16,756,754
2014	9,112,629	596	1,654,208	1,382,052	4,785,769	3,813,351	1,591,099	241,841	90,125	17,476,267
2015	9,472,178	437	1,668,878	1,401,521	4,823,222	3,847,517	1,820,525	218,020	91,616	18,094,876
2016	10,091,596	89	1,757,776	1,487,994	4,989,360	3,976,482	1,859,685	190,724	90,240	18,979,470

Notes: 1. Data in principle is for Japanese-brand vehicles only. 2. Until 1997, data was based on statistics supplied by the national automobile trade associations of respective countries. 3. Mexico is included in Latin America and Turkey in Europe. 4. Data excludes vehicles produced with technical assistance only provided by Japanese automakers. 5. The figures reflect the use of a new method, adopted as of January 2007, for computing overseas unit production.

Japanese Automakers Forge Extensive International Alliances

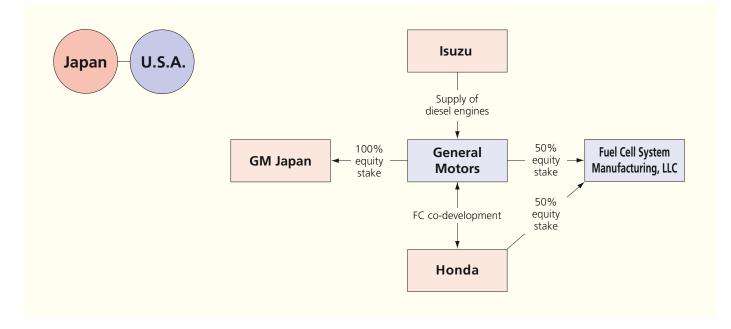
With economic globalization, Japanese automobile manufacturers have rapidly adapted to the needs of individual markets, not only by shifting production to those markets but also by forging extensive alliances with overseas manufacturers. Various forms of partnership currently exist between Japanese, U.S. and European automakers—including capital and technical tie-ups, joint R&D and production operations, and cooperative sales ties—and such arrangements are expanding yearly. With the rapid growth of motorization in China and Southeast Asia, Japanese automakers have been actively building relationships with local manufacturers there on the basis of capital tie-ups and the supply of production as well as environment- and safety-related technologies.

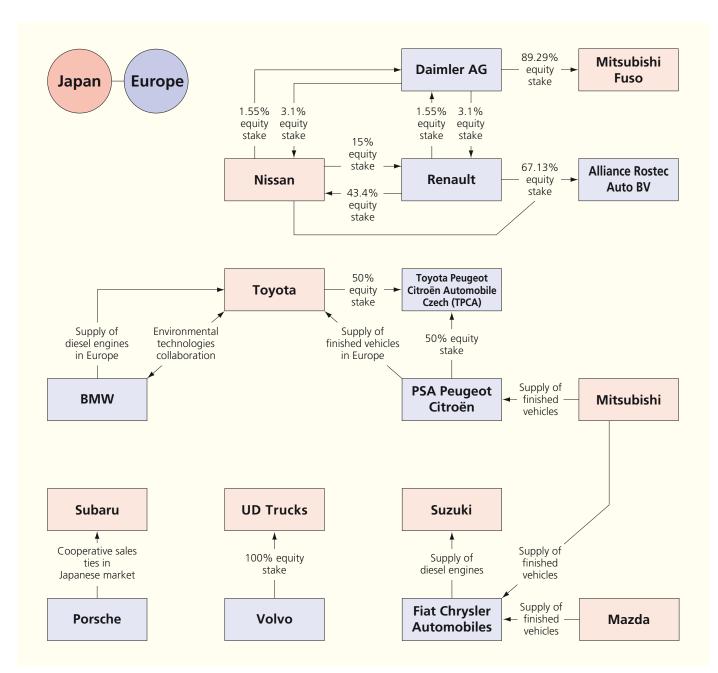


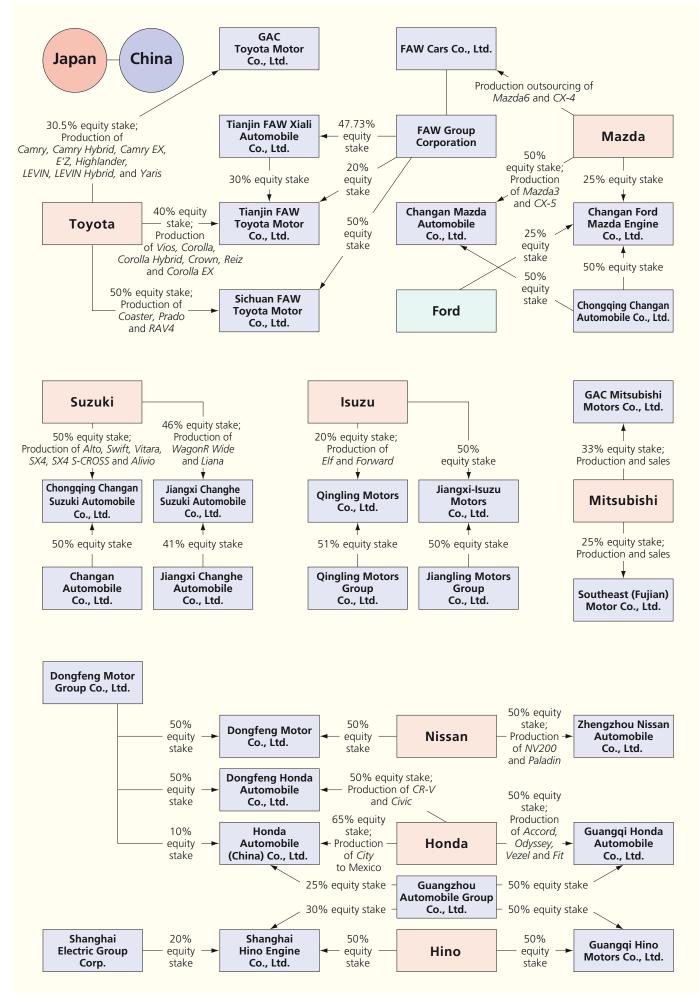
At March 31, 2017 *At December 31, 2016

Source: Japan Automobile Manufacturers Association

Global Operations Globa

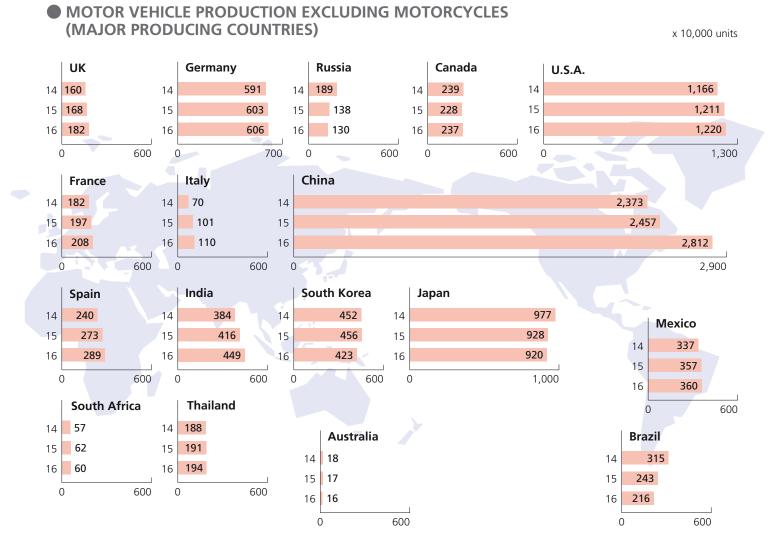






Motor Vehicle Production Worldwide Increases for Seventh Straight Year

In 2016 worldwide motor vehicle production (excluding motorcycles) grew 4.5% from the previous year to a total of 94.98 million units. By region, production increased in Africa (up 7.9% to 902,000 units), Asia-Oceania (up 7.6% to 51.52 million units), Europe (up 2.5% to 21.70 million units), and North America (up 1.2% to 14.57 million units), but decreased in Latin America (down 4.4% to 6.29 million units).



GLOBAL MOTORCYCLE PRODUCTION (BY COUNTRY/TERRITORY)

In vehicle units

Country/		2013			2014			2015	
Territory	Mopeds	Motorcycles	Total	Mopeds	Motorcycles	Total	Mopeds	Motorcycles	Total
Austria			81,167	_	_	81,536		—	
Czech Republic	26	1,328	1,354	17	1,058	1,075	16	1,711	1,727
France	_	_	38,885	_	_	48,853	_	_	—
Germany	_	_	105,015	_	_	125,497	_	_	_
Italy	—	—	240,635	—	—	225,820	—	—	—
Spain	—	—	5,010	—	_	9,700	—	—	—
UK		—	15,531	—		18,911	—	—	—
Brazil	0	1,673,477	1,673,477	—	1,517,662	1,517,662	—	1,262,708	1,262,708
China	—	20,467,563	22,889,147	—	18,934,987	21,295,105	—	16,617,298	18,832,191
India	—	—	16,883,049	—		18,489,311	—	—	18,829,786
Indonesia	—	—	7,780,295	—	_	7,926,104	—	—	—
Japan	0	563,309	563,309	0	597,058	597,058	0	522,394	522,394
Malaysia	—	—	549,244	—	_	439,907	—	—	382,218
Pakistan	—	—	794,763	—	-	916,698	—	—	1,255,770
Philippines	—	—	729,690	—	_	749,506	—	—	806,594
Taiwan	—	—	1,115,223	—	-	1,175,259	—	—	1,118,848
Thailand	—	—	2,218,625	_	_	1,816,545		—	1,800,623

Note: "-" means data is not available at the end of March 2017.

Sources: Motorcycle manufacturers' associations of individual countries, etc.

GLOBAL MOTOR VEHICLE PRODUCTION (BY COUNTRY/REGION/TERRITORY)

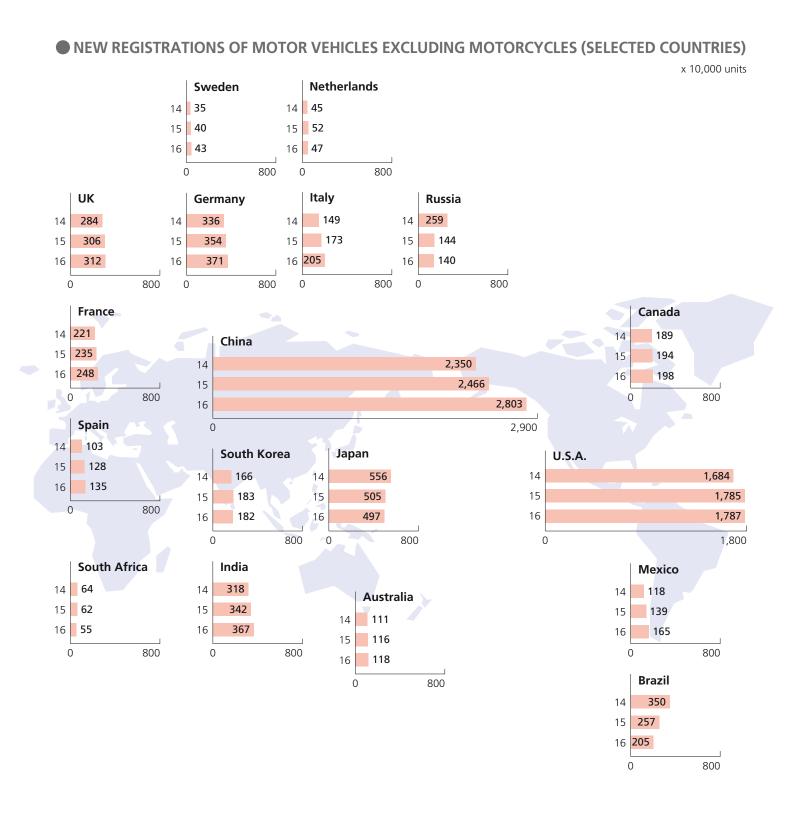
In vehicle units

Country/Region/		2014			2015			2016	
Territory	Passenger Cars	Trucks & Buses	Total	Passenger Cars	Trucks & Buses	Total	Passenger Cars	Trucks & Buses	Total
Austria	136,000	16,000	152,000	104,000	17,200	121,200	90,000	18,000	108,000
Belgium	481,636	35,195	516,831	369,172	40,081	409,253	354,003	45,424	399,427
Finland	45,000	35	45,035	69,000	53	69,053	55,280	0	55,280
France	1,499,464	322,000	1,821,464	1,555,000	417,000	1,972,000	1,626,000	456,000	2,082,000
Germany Italy	5,604,026 401,317	303,522 296,547	5,907,548 697,864	5,708,138 663,139	325,226 351,084	6,033,364	5,746,808 713,182	315,754 390,334	6,062,562
Netherlands	29,196	296,547	697,864 31,428	41,870	2,252	1,014,223 44,122	42,150	2,280	1,103,516 44,430
Portugal	117,744	43,765	161,509	115,468	41,158	156,626	99,200	43,896	143,096
Spain	1,898,342	504,636	2,402,978	2,218,980	514,221	2,733,201	2,354,117	531,805	2,885,922
Sweden	154,174	0	154,174	188,987	0	188,987	205,374	0	205,374
UK	1,528,148	70,731	1,598,879	1,587,677	94,479	1,682,156	1,722,698	93,924	1,816,622
Czech Republic	1,246,506	4,714	1,251,220	1,241,166	5,367	1,246,533	1,344,182	5,714	1,349,896
Hungary	434,069	3,530	437,599	491,720	3,650	495,370	472,000	0	472,000
Poland	472,600	120,904	593,504	534,700	125,992	660,692	554,600	127,237	681,837
Romania	391,422	12	391,434	387,171	6	387,177	358,861	445	359,306
Slovakia	971,160	0	971,160	1,038,503	0	1,038,503	1,040,000	0	1,040,000
Slovenia	118,533	58	118,591	133,092	0	133,092	133,702	0	133,702
Double Counts Portugal/World	0	-5,749	-5,749	0	-7,866	-7,866	0	-8,505	-8,505
Double Counts Eastern Europe/World	-120,000	0	-120,000	-123,360	0	-123,360	-125,200	0	-125,200
European Union (EU27)	15,409,337	1,718,132	17,127,469	16,324,423	1,929,903	18,254,326	16,786,957	2,022,308	18,809,265
Turkey Sorbia	733,439	437,006	1,170,445	791,027	567,769	1,358,796	950,888	535,039	1,485,927
Serbia Russia	101,576 1,682,921	1,574	103,150	82,400 1,216,093	1,230	83,630 1,378,246	79,360 1,124,774	960 179,215	80,320 1,303,989
Russia Azerbaijan	1,682,921	204,272 247	1,887,193 247	1,216,093	162,153	1,378,246	1,124,774	247	1,303,989
Belarus	9,350	13,640	247	8,469	6,564	15,033	10,090	6,774	16,864
Kazakhstan	37,157	3,005	40,162	12,453	2,024	14,477	8,397	2,254	10,651
Ukraine	25,941	2,810	28,751	5,654	2,590	8,244	4,340	924	5,264
Uzbekistan	245,660	0	245,660	185,400	0	185,400	88,152	0	88,152
Double Counts CIS/World	-196,442	0	-196,442	-131,550	0	-131,550	-101,090	0	-101,090
CIS	1,804,587	223,974	2,028,561	1,296,519	173,746	1,470,265	1,134,663	189,414	1,324,077
Europe	18,048,939	2,380,686	20,429,625	18,494,369	2,672,648	21,167,017	18,951,868	2,747,721	21,699,589
Canada	913,533	1,480,621	2,394,154	888,565	1,394,742	2,283,307	802,057	1,568,214	2,370,271
U.S.A.	4,253,098	7,407,604	11,660,702	4,162,808	7,943,180	12,105,988	3,934,357	8,263,780	12,198,137
North America	5,166,631	8,888,225	14,054,856	5,051,373	9,337,922	14,389,295	4,736,414	9,831,994	14,568,408
Mexico	1,915,709	1,452,301	3,368,010	1,968,054	1,597,164	3,565,218	1,993,168	1,604,294	3,597,462
Argentina	363,711	253,618	617,329	308,756	217,901	526,657	241,315	231,461	472,776
Brazil Colombia	2,502,293 70,149	644,093 988	3,146,386 71,137	2,017,639 76,678	411,782	2,429,421 77,748	1,778,464 77,946	377,892 1,090	2,156,356 79,036
Ecuador	70,149	5,986	5,986	/0,0/0 0	1,070 4,800	4,800	77,940	1,090	79,030
Venezuela	11,039	8,720	19,759	9,739	4,800 8,561	4,800	849	2,001	2,850
Double Counts South America/World	-43,000	-18,000	-61,000	-37,700	-11,000	-48,700	-12.170	-10.580	-22,750
Latin America	4,819,901	2,347,706	7,167,607	4,343,166	2,230,278	6,573,444	4,079,572	2,206,158	6,285,730
North and Latin America	9,986,532	11,235,931	21,222,463	9,394,539	11,568,200	20,962,739	8,815,986	12,038,152	20,854,138
Australia	166,933	13,378	180,311	159,872	13,137	173,009	149,000	12,294	161,294
Bangladesh	536	0	536	540	0	540	580	0	580
China	19,928,505	3,803,095	23,731,600	21,143,351	3,423,899	24,567,250	24,420,744	3,698,050	28,118,794
India	3,162,372	682,485	3,844,857	3,408,849	751,736	4,160,585	3,677,605	811,360	4,488,965
Indonesia	1,013,172	285,351	1,298,523	824,445	274,335	1,098,780	968,101	209,288	1,177,389
Iran	925,975	164,871	1,090,846	884,866	97,471	982,337	1,074,000	90,710	1,164,710
Japan	8,277,070	1,497,595	9,774,665	7,830,722	1,447,599	9,278,321	7,873,886	1,330,810	9,204,696
Malaysia	545,122	50,012	595,134	563,883	50,781	614,664	469,720	43,725	513,445
Pakistan	126,020	22,726	148,746	182,548	47,138	229,686	178,530	42,420	220,950
Philippines	74,322	32,616	106,938	77,539	34,954	112,493	89,560	46,280	135,840
South Korea Taiwan	4,124,116	400,816	4,524,932	4,135,108	420,849	4,555,957 351,085	3,859,991	368,518	4,228,509
Thailand	332,629 743,258	46,594 1,137,329	379,223 1,880,587	298,418 760,688	52,667 1,148,710	1,909,398	251,096 805,033	58,435 1,139,384	309,531 1,944,417
Vietnam	44,328	4,543	48,871	45,400	4,600	50,000	59,880	6,150	66,030
Double Counts Asia/World	-201,000	4,545	-201,000	-205,130	4,000	-205,130	-213,830	0,150	-213,830
Asia-Oceania	39,263,358	8,141,411	47,404,769	40,111,099	7,767,876	47,878,975	43,663,896	7,857,424	51,521,320
Algeria	1,244	0	1,244	19,346	0	19,346	42,008	0	42,008
Egypt	17,542	24,973	42,515	12,000	24,000	36,000	10,930	25,300	36,230
Morocco	209,999	21,987	231,986	260,129	28,208	288,337	313,868	31,238	345,106
South Africa	277,491	288,592	566,083	341,025	274,633	615,658	335,539	263,465	599,004
Tunisia	0	1,860	1,860	0	540	540	0	0	0
Double Counts South Africa/World	-23,070	-101,010	-124,080	-28,370	-96,220	-124,590	-28,660	-92,060	-120,720
Africa	483,206	236,402	719,608	604,130	231,161	835,291	673,685	227,943	901,628
Grand Totals	67,782,035	21,994,430	89,776,465	68,604,137	22,239,885	90,844,022	72,105,435	22,871,240	94,976,675

Notes: 1. Includes preliminary figures. 2. Some EU countries do not release truck and bus production data. Sources: International Organization of Motor Vehicle Manufacturers (OICA); for Japan, Japan Automobile Manufacturers Association

Global Growth in Motor Vehicle Sales for Seventh Consecutive Year

In 2016 new motor vehicle registrations (excluding motorcycles) increased 4.7% over the previous year to a global total of 93.86 million units. Vehicle sales rose in Italy (up 18.8% to 2.05 million units), Mexico (up 18.6% to 1.65 million units), and China (up 13.7% to 28.03 million units). On the other hand, new registrations dropped from the previous year in Brazil (down 20.2% to 2.05 million units) and South Africa (down 11.4% to 547,000 units).



NEW REGISTRATIONS OF PASSENGER CARS AND COMMERCIAL VEHICLES (BY COUNTRY)

		2014			2015			2016	
Country	Passenger Cars	Commercial Vehicles	Total	Passenger Cars	Commercial Vehicles	Total	Passenger Cars	Commercial Vehicles	Total
Austria	303,318	38,897	342,215	308,555	41,042	349,597	329,604	44,941	374,545
Belgium	482,939	62,316	545,255	501,066	70,458	571,524	539,519	78,335	617,854
Czech Republic	192,314	23,280	215,594	230,857	29,213	260,070	259,693	31,315	291,008
Denmark	189,055	32,658	221,713	207,717	37,767	245,484	222,924	42,462	265,386
Finland	106,237	13,876	120,113	108,819	14,664	123,483	118,991	17,439	136,430
France	1,795,885	415,042	2,210,927	1,917,226	427,866	2,345,092	2,015,177	463,295	2,478,472
Germany	3,036,773	319,945	3,356,718	3,206,042	333,783	3,539,825	3,351,607	357,260	3,708,867
Hungary	67,476	21,243	88,719	77,171	23,762	100,933	96,552	27,255	123,807
Italy	1,360,578	132,430	1,493,008	1,575,737	150,342	1,726,079	1,824,968	225,324	2,050,292
Netherlands	387,553	62,777	450,330	449,350	71,828	521,178	382,825	86,585	469,410
Norway	144,202	36,071	180,273	150,686	39,420	190,106	154,603	43,388	197,991
Poland	327,709	64,767	392,476	354,975	77,464	432,439	416,123	88,427	504,550
Portugal	142,826	29,531	172,357	178,503	35,151	213,654	207,345	39,998	247,343
Romania	82,809	17,527	100,336	98,325	22,266	120,591	115,004	27,016	142,020
Slovakia	72,237	9,723	81,960	77,968	12,123	90,091	88,165	12,435	100,600
Spain	890,125	139,657	1,029,782	1,094,077	182,982	1,277,059	1,147,007	200,337	1,347,344
Sweden	303,948	48,519	352,467	345,108	51,585	396,693	372,318	59,500	431,818
UK	2,476,435	366,590	2,843,025	2,633,503	427,903	3,061,406	2,692,786	430,969	3,123,755
Russia	2,333,067	259,329	2,592,396	1,282,740	158,183	1,440,923	1,239,680	164,784	1,404,464
Switzerland	301,942	36,462	338,404	323,783	38,867	362,650	317,318	38,564	355,882
Turkey	587,331	220,155	807,486	725,596	285,598	1,011,194	756,938	250,919	1,007,857
Canada	760,449	1,129,938	1,890,387	712,322	1,227,195	1,939,517	661,088	1,322,657	1,983,745
U.S.A.	7,689,110	9,154,354	16,843,464	7,516,826	10,328,798	17,845,624	6,872,729	10,993,044	17,865,773
Mexico	745,250	431,055	1,176,305	892,194	497,280	1,389,474	1,065,912	581,811	1,647,723
Brazil	2,794,687	703,325	3,498,012	2,123,009	445,967	2,568,976	1,676,722	373,599	2,050,321
Argentina	432,696	181,152	613,848	480,952	163,069	644,021	525,757	183,725	709,482
China	19,707,677	3,791,324	23,499,001	21,210,339	3,451,263	24,661,602	24,376,902	3,651,273	28,028,175
India	2,570,736	606,269	3,177,005	2,772,270	652,566	3,424,836	2,966,637	702,640	3,669,277
Japan	4,699,591	863,297	5,562,888	4,215,889	830,621	5,046,510	4,146,458	823,800	4,970,258
South Korea	1,359,834	302,034	1,661,868	1,533,670	300,116	1,833,786	1,533,813	289,228	1,823,041
Malaysia	588,348	78,139	666,487	591,275	75,402	666,677	514,545	65,579	580,124
Indonesia	863,268	332,141	1,195,409	755,566	275,856	1,031,422	834,919	213,215	1,048,134
Thailand	411,402	470,430	881,832	356,063	443,569	799,632	328,053	440,735	768,788
Australia	883,949	229,281	1,113,230	924,154	231,254	1,155,408	927,274	250,859	1,178,133
Egypt	273,500	75,600	349,100	258,400	73,700	332,100	214,800	49,300	264,100
South Africa	439,264	205,240	644,504	412,670	205,079	617,749	361,289	186,117	547,406
Other	5,903,710	1,725,494	7,629,204	5,710,752	1,636,451	7,347,203	5,808,387	1,533,826	7,342,213
Grand Totals	65,708,230	22,629,868	88,338,098	66,314,155	23,370,453	89,684,608	69,464,432	24,391,956	93,856,388

Sources: International Organization of Motor Vehicle Manufacturers (OICA); for Japan, Japan Automobile Dealers Association; Japan Mini Vehicles Association; Japan Automobile Manufacturers Association

In vehicle units

More than 1.26 Billion Motor Vehicles in Use Worldwide

There were over 1.26 billion motor vehicles (excluding motorcycles) in use worldwide in 2015, equivalent to 172 motor vehicles per 1,000 inhabitants or one vehicle for every 5.8 persons. Motorcycle density in recent years has been particularly high in Malaysia and Thailand, with one motorcycle in use for every three persons; in Greece, with one in use for every six persons; and in Italy, with one in use for every seven persons. In Japan, one motorcycle is in use for every 11 persons.

MOTOR VEHICLE DENSITY: INTERNATIONAL COMPARISONS (at end of 2015)

	In vehicle units	s 🕴 👖 x 1 person
Country	No. of Motor Vehicles per 1,000 Inhabitants Total Motor Vehicles Passenger Cars	No. of Persons per Motor Vehicle (No. of Persons per Passenger Car)
U.S.A.	846 392	1.2 (2.6)
Australia	714 565	1.4 (1.8)
Italy	706	1.4 (1.6)
Canada	647 615	1.5 (1.6)
Japan	611 482	1.6 (2.1)
Austria	612 559	1.6 (1.8)
France	600 497	1.7 (2.0)
Switzerland	<u>592</u> 537	1.7 (1.9)
Spain	596 485	1.7 (2.1)
UK	<u>591</u> 518	1.7 (1.9)
Germany	<u>598</u> 559	1.7 (1.8)
Belgium	574 494	1.7 (2.0)
World Average	172 126	5.8 (8.0)

Sources: Ministry of Land, Infrastructure, Transport and Tourism; Ward's, etc.; for population data, OECD, UN

MOTORCYCLE DENSITY: INTERNATIONAL COMPARISONS (No. of Persons per Motorcycle) x 1 person

2014	Malaysia	3 🛉 🛉 🛉	
2015	Thailand	3 1 1	
2014	Greece	6 ที่ที่ที่ที่ที่ที่ที ่	
2014	Italy	7 *** **	
2014	Spain	9 ***** ****	
2014	Switzerland	10 **********	
2015	Japan	11 ########### #	
2014	Austria	11 *** **	
2014	Netherlands	14 ############### ####	
2014	Germany	14 ############### #####	
2015	China	15 **** *******	

Note: Data for Japan is as at March 31.

Sources: Ministry of Land, Infrastructure, Transport and Tourism; Ministry of Internal Affairs and Communications; Federation of Asian Motorcycle Industries (FAMI); European Association of Motorcycle Manufacturers (ACEM), etc.; for population data, OECD, UN

MOTOR VEHICLES IN USE WORLDWIDE (at end of 2015) In vehicle units

Country	Passenger Cars	Commercial Vehicles	Total
Germany	45,071,209	3,355,885	48,427,094
Italy	37,351,233	4,890,701	42,241,934
France	32,000,000	6,652,000	38,652,000
UK	33,542,448	4,677,162	38,219,610
Spain	22,355,022	5,108,151	27,463,173
Netherlands	8,336,414	1,059,999	9,396,413
Belgium	5,587,415	900,444	6,487,859
Austria	4,748,048	453,702	5,201,750
Sweden	4,678,271	611,867	5,290,138
Poland	20,697,654	3,735,830	24,433,484
Switzerland	4,458,069	459,318	4,917,387
Turkey	10,589,915	4,725,309	15,315,224
Russia	41,000,000	8,000,000	49,000,000
U.S.A.	126,013,540	146,153,933	272,167,473
Canada	22,067,778	1,146,770	23,214,548
Mexico	26,379,326	10,641,506	37,020,832
Argentina	11,003,000	3,305,000	14,308,000
Brazil	33,566,000	8,959,000	42,525,000
Japan	60,987,342	16,416,989	77,404,331
China	135,119,000	23,191,000	158,310,000
South Korea	16,561,665	4,428,220	20,989,885
India	30,570,000	11,230,000	41,800,000
Thailand	8,170,837	7,319,174	15,490,011
Indonesia	13,845,949	9,237,905	23,083,854
Australia	13,549,449	3,592,815	17,142,264
South Africa	6,845,284	3,105,264	9,950,548
Other	147,609,640	45,328,497	192,938,137
Grand Totals	922,704,508	338,686,441	1,261,390,949

Sources: Ministry of Land, Infrastructure, Transport and Tourism; Ward's, etc.

MOTORCYCLES IN USE WORLDWIDE

In vehicle units

Year	Country/Territory	Total
2014	Italy	8,505,620
2014	Spain	5,033,209
2014	France	3,015,223
2014	UK	1,328,300
2014	Netherlands	1,228,147
2014	Switzerland	852,567
2014	Austria	755,447
2014	Poland	1,311,184
2014	Czech Republic	1,016,978
2014	Germany	5,888,263
2014	Greece	1,802,929
2015	China	88,774,976
2015	Japan	11,482,344
2015	Thailand	20,541,724
2014	Taiwan	13,735,994
2014	Malaysia	11,734,527
2015	Philippines	4,888,573

Sources: Ministry of Land, Infrastructure, Transport and Tourism; Ministry of Internal Affairs and Communications; Federation of Asian Motorcycle Industries (FAMI);

European Association of Motorcycle Manufacturers (ACEM), etc.

Motor Vehicle Exports Increase in the U.S.A., Italy, and Spain

Motor vehicle exports (excluding motorcycles) in 2015 increased over the previous year, notably, in descending order of absolute export unit volume growth, in the U.S.A., to 2.69 million units (up 20.3% in terms of relative growth); in Italy, to 683,000 units (up 55.7%); and in Spain, to 2.27 million units (up 11.5%). Exports decreased, in descending order of absolute export unit volume decline, in China (to 728,000 units, down 20.0% in relative terms) and South Korea (to 2.97 million units, down 2.9%).



MOTOR VEHICLE EXPORTS (MAJOR EXPORTING COUNTRIES)

In vehicle units

In vehicle units

		2013			2014			2015	
Country	Passenger Cars	Commercial Vehicles	Total	Passenger Cars	Commercial Vehicles	Total	Passenger Cars	Commercial Vehicles	Total
Japan	4,065,519	609,114	4,674,633	3,835,595	630,029	4,465,624	3,970,003	608,075	4,578,078
U.S.A.	1,624,236	467,236	2,091,472	1,784,937	454,592	2,239,529	2,206,701	487,591	2,694,292
Germany	4,197,516	207,244	4,404,760	4,303,127	226,277	4,529,404	4,406,206	244,015	4,650,221
UK	1,201,395	47,910	1,249,305	1,195,196	34,822	1,230,018	1,227,881	47,179	1,275,060
France	3,842,199	530,355	4,372,554	3,961,884	571,759	4,533,643	4,159,198	563,013	4,722,211
Italy	169,576	223,657	393,233	189,112	249,554	438,666	385,738	297,217	682,955
Spain	1,493,731	386,243	1,879,974	1,631,744	408,149	2,039,893	1,893,724	380,008	2,273,732
Brazil	461,402	130,221	591,623	265,620	93,951	359,571	316,777	125,236	442,013
South Korea	2,948,352	140,931	3,089,283	2,919,781	143,423	3,063,204	2,821,832	152,282	2,974,114
China	596,286	381,006	977,292	533,009	377,352	910,361	427,727	300,505	728,232
India	596,142	77,050	673,192	621,341	86,939	708,280	653,889	101,689	755,578

Sources: Ward's, etc.; for Japan, Japan Automobile Manufacturers Association

MOTORCYCLE EXPORTS (MAJOR EXPORTING COUNTRIES/TERRITORY)

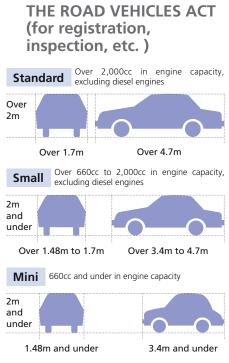
		2013			2014			2015		
Country/Territory	Mopeds	Motorcycles & Scooters	Total	Mopeds	Mopeds Motorcycles & Total Mo		Mopeds	Motorcycles & Scooters	Total	
Japan	0	430,897	430,897	0	465,584	465,584	0	417,649	417,649	
China	—	8,982,918	8,982,918	—	8,281,206	8,281,206	—	7,402,466	7,402,466	
Taiwan	—	—	421,884	—	—	499,172		—	454,743	
Indonesia		—	27,135			41,746		—	—	
India	—	—	2,084,000	—	—	2,457,466		—	2,481,193	

Note: "-" means data is not available at the end of March 2017.

Sources: Automobile/motorcycle manufacturers' associations of individual countries; for Japan, Japan Automobile Manufacturers Association

Classifications According to the Road Vehicles Act and the Road Traffic Act

Japan classifies motor vehicles according to the provisions of two basic laws: the Road Vehicles Act and the Road Traffic Act. Road Vehicles Act classifications are used for registration statistics, vehicle inspection, and related maintenance and repair. Road Traffic Act classifications determine the different categories of driver's licenses. Vehicle registration number/character combinations are determined by vehicle type and usage in accordance with Road Vehicles Act designations, and a "vanity plate" system has been introduced nationwide.



CLASSIFICATION UNDER

Note: A vehicle that exceeds any one of the requisites above is classified in the higher category.

CLASSIFICATION UNDER THE ROAD TRAFFIC ACT (for driver's license issuance)

Large Motor Vehicles	Middle-Category Motor Vehicles	Quasi-Middle-Category Motor Vehicles (1)		
Gross vehicle weight: ≥11 tons Payload: ≥6.5 tons or Occupancy: ≥30 persons	Gross vehicle weight: 7.5≤tons<11 Payload: 4.5≤tons<6.5 or Occupancy: 11≤persons<30	Gross vehicle weight: 3.5≤tons<7.5 Payload: 2≤tons<4.5 or Occupancy: <11 persons		
Ordinary	Special-Purpo	ose Motor Vehicles		
Ordinary Motor Vehicles	· · · ·	uch as bulldozers, steamrollers, graders,		

(1) As per a revision to the Road Traffic Act, the quasi-middle-category motor vehicle classification went into application in March 2017. (2) Projections on small special-purpose vehicles should not exceed 2.8m.

Note: The Road Traffic Act stipulates that the driver of any one-rider, three- or four-wheeled vehicle of up to 50cc in engine capacity, with a legal maximum speed of 50km/h and a maximum load of 30kg, is required to hold an "ordinary motor vehicle" driver's license.

CLASSIFICATION OF MOTORCYCLES

	Ro	ad Vehicles	Act			Road Traffic Act		
Category	Engine Capacity	Rated Output	Width	Height	Length	Catanami	Engine	
Small-sized	Over 250cc	Over 1.0kW	Over	Over	Over	Category	Capacity	
			1.3m	2.0m	2.5m	Large	Over	
Mini-sized	126cc to	Over 1.0kW	1.3m and	2.0m and	2.5m and		400cc	
	250cc		under	under	under	Ordinary	51cc to	
Motor-driven	51cc to	Over 0.6kW	1.3m and	2.0m and	2.5m and		400cc	
cycles Class 2	125cc	to 1.0kW	under	under	under	Motorized	50cc and	
Motor-driven	50cc and	0.6kW and	1.3m and	2.0m and	2.5m and	bicycles	under	
cycles Class 1	under	under	under	under	under	-		

Note: A motorcycle that exceeds any one of the requisites above is classified in the higher category.

SIGNIFICANCE OF VEHICLE REGISTRATION DATA & NUMBER PLATE TYPES

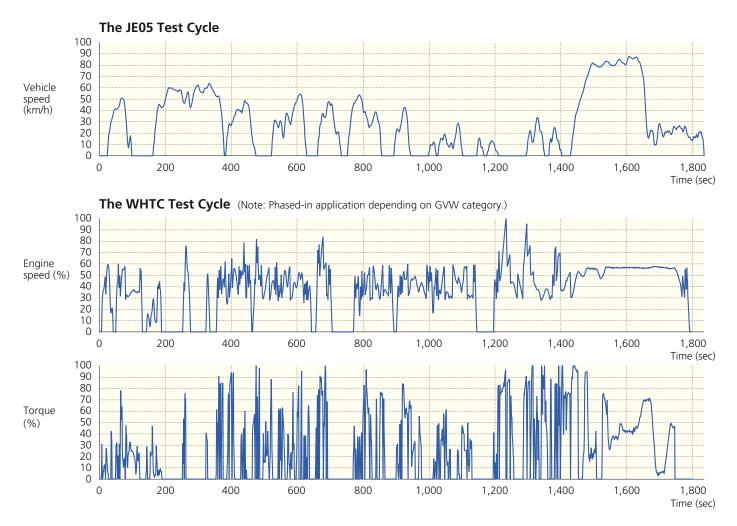
Large-Sized Number Plat Larger-than-standard-size		22cm				Designation: hical area of		Designated Numbe Indicating Vehi	
vehicles weighing 8 tons or		×		e registrat			_		
5 tons or more, or 30-perso	n or more occupancy.	44cm	Verne	e registiu				Ordinary trucks	1, 10-19, 100-199
Mid-Sized Number Plate							/	Ordinary buses	2, 20-29, 200-299
Standard-size plates are iss	-	16.5cm				/		Ordinary passenger cars	3, 30-39, 300-399
small vehicles and mini-v		×						Three- or four-wheeled	4, 40-49, 400-499
capacity of more than	2	33cm						small trucks	6, 60-69, 600-699
private or commercial busi		JJCIII		Ţ		×		Three- or four-wheeled	5, 50-59, 500-599
Small-Sized Number Plat					ш			small passenger cars	7, 70-79, 700-799
Small-size plates are issued		12.5cm			/1] 3	500		and small buses	
sized motorcycles and		x		_	_			Special-purpose vehicles	8, 80-89, 800-899
engine capacity of 360c	c or less, excluding	23cm		さ2	3-	-45		Large special-purpose vehicles	9, 90-99, 900-999
those designated with any					_			Large special-purpose	0, 00-09, 000-099
50-to-59 or 80-to-89 num	ber categories.			-		1		vehicles used as	
Usa	ge Designations							construction machinery	
Ordinary and large moto	or vehicles								
Private use	さすせそたちつてとなに	ぬねのはひふ	いほまみ					Number Assignment	
	むめもやゆらりるろ								
Commercial business use	あいうえかきくけこを							From "1" to "99-99"	
Rental vehicle	<u>われ</u>								
Foreign military vehicle	EHKMTYL								
Mini-vehicles	Lindin For								
Private use	あいうえかきくけこさすも	せそたちつてと	なにぬ					Number Plate Colors	
	ねのはひふほまみむめも	やゆよらるろ	を						
Commercial business use	りれ		_					notor vehicles	
Rental vehicle	<u></u> わ					Private use or r			
Foreign military vehicle	AB					Commercial bu		Se White characters on	green background
						Mini-vehicles			
Hiragana character indicates			mercial			Private use or r			ellow background
business, rental or foreign m	nilitary vehicle (private or	official).				Commercial bu	isiness u	Ise Yellow characters on	black background

Source: Ministry of Land, Infrastructure, Transport and Tourism

Japan's Test Cycles for Measuring Fuel Consumption and Exhaust Emissions

The JC08 test cycle is currently the only test cycle applied in Japan to measure fuel consumption rates as well as exhaust emissions in non-heavy-duty vehicles, having replaced the 10.15-mode test cycle. The objective in using the JC08 test cycle is to obtain test results that are as close as possible to actual on-road fuel consumption rates, and certified fuel efficiency values are established on the basis of JC08 test cycle results. Beginning in 2018, for the purpose of global harmonization, Japan will replace its JC08 test cycle with the Worldwide Harmonized Light Vehicles Test Procedure (WLTP). Meanwhile, Japan's JE05 test cycle for measuring diesel exhaust emissions from heavy-duty vehicles is being replaced by the World Harmonized Transient Cycle (WHTC).

COMPARISON OF THE JE05 AND WHTC TEST CYCLES FOR HEAVY-DUTY VEHICLES (measuring fuel consumption)



• COMPARISON OF THE JC08 AND WLTP TEST CYCLES FOR PASSENGER CARS & LIGHT COMMERCIAL VEHICLES (measuring fuel consumption and exhaust emissions)

(Note: Phased-in application of WLTP depending on GVW category.)

	Maximum speed (km/h)	Average speed (km/h)	Maximum acceleration (km/h/sec)	Duration (sec)	Distance (km)	Idling time (%)
JC08	81.60	24.41	5.50	1,204	8.17	29.7
WLTP	97.40	36.39	5.70	1,477	14.94	15.4

Alternative Systems Expedite Certification

Motor vehicle certification in Japan is based primarily on the Type Approval System, which is applied to both domestic and imported automobiles and covers most mass-produced models. The Preferential Handling Procedure for imported motor vehicles is an alternative procedure which was instituted to expedite the certification of foreign-made vehicles that are imported in limited quantities. The Type Notification System and the Common Structure Type Approval System are mainly applied to large commercial vehicles.

THE TYPE APPROVAL SYSTEM

This certification procedure is applied to domestic and imported mass-produced models. The Ministry of Land, Infrastructure, Transport and Tourism (MLIT) inspects a sample vehicle and the quality-control system of the automobile manufacturer concerned, then completes the type approval process within two months in principle. All finished vehicles that have been granted type approval are then inspected by the manufacturer, eliminating the need to present them for new vehicle inspection. For imported vehicles, the MLIT not only dispatches officials overseas to conduct certification inspections but also accepts the test results of designated foreign testing institutes.

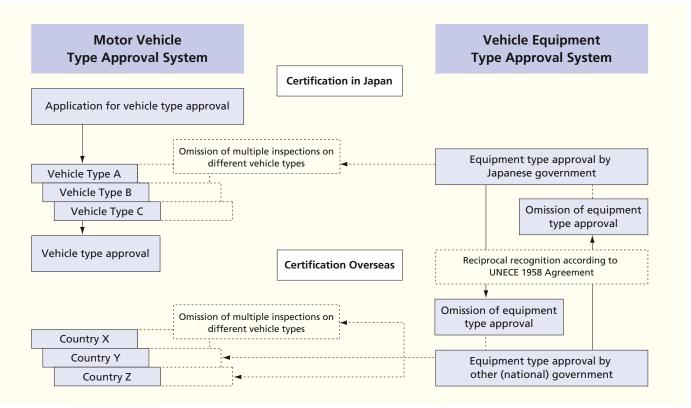
THE PREFERENTIAL HANDLING PROCEDURE FOR IMPORTED VEHICLES

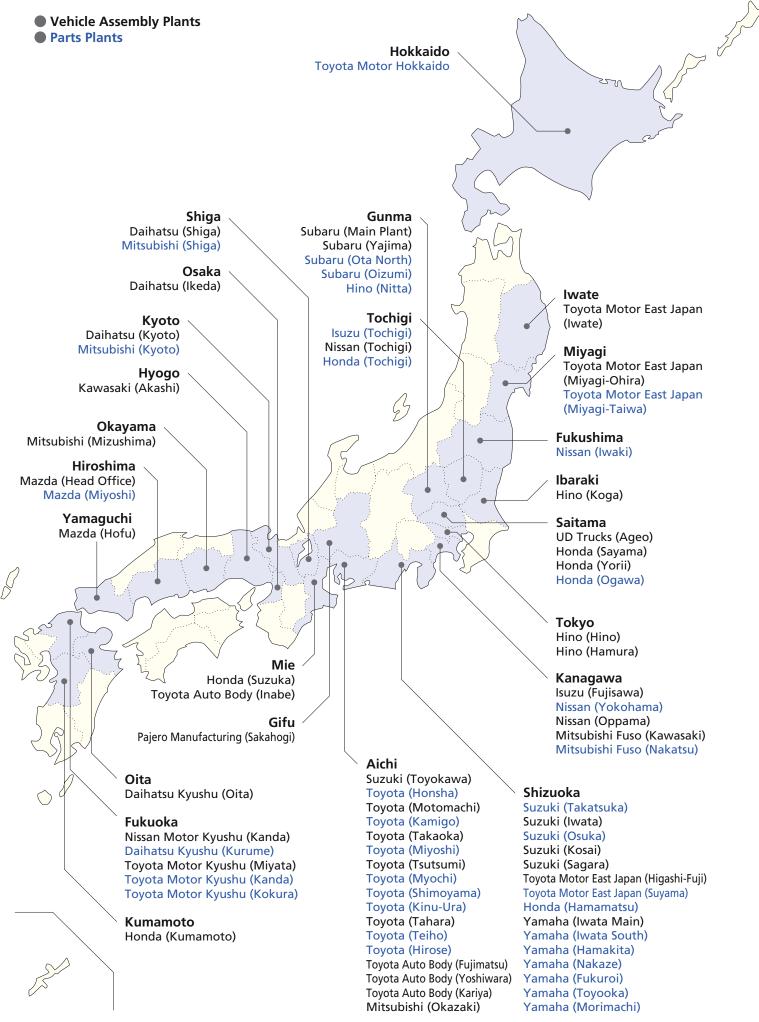
This procedure is applied to models that are imported into Japan in quantities of 5,000 units or less per year. Designed to make the importation of vehicles simpler and faster, it exempts the applicant from undergoing the sample vehicle inspection that is mandatory under the Type Approval System. The MLIT inspects only the application documentation and issues a form indicating completion of the procedure within one month.

RATIONALIZATION OF MOTOR VEHICLE/RECIPROCAL EQUIPMENT TYPE APPROVAL SYSTEMS

Increased globalization in the automobile industry worldwide is underscoring the need for the more widespread adoption of reciprocal recognition systems, under which certification is mutually recognized between importing and exporting countries or regions. Meanwhile, the United Nations' World Forum for Harmonization of Vehicle Regulations (also known as WP.29) is making steady progress in the establishment of global technical regulations (GTRs) focusing on vehicle safety and environmental standards. In 1998 the Japanese government officially acceded to the UNECE 1958 Agreement, under which each signatory government reciprocally recognizes certifications of vehicle structure and equipment issued by all the other signatory countries. It also introduced the Vehicle Equipment Type Approval System, which specifically addresses the expanding common use of equipment in vehicle manufacturing. This system not only allows equipment and parts that have been certified by 1958 Agreement co-signatory countries to be exempted from undergoing certification procedures in Japan, but furthermore does not require them to be inspected again if they are used in other models.

JAPAN'S RATIONALIZATION OF MOTOR VEHICLE/RECIPROCAL EQUIPMENT TYPE APPROVAL SYSTEMS









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