

**TRANSPORT  
AND  
COMMUNICATIONS**



## Vessels Entered and Cleared

Data on the movement of vessels are compiled from declarations submitted to the Port Master by all merchant ships entering or leaving Singapore waters. The data are given in terms of number and gross tonnage.

## Sea Cargo Handled

The volume of cargo handled refers to those handled by vessels of all tonnages at the port of Singapore. The data include transshipment cargo but exclude ship's stores and mineral oil supplied as bunker fuel to vessels.

## Civil Air Traffic

The Civil Aviation Authority of Singapore (CAAS) is responsible for operating the Singapore Changi Airport and Seletar Aerodrome. It also provides air traffic services, regulates and promotes the development of air transport and aerospace industries, as well as compiles and collates statistics on passengers, airfreight, airmail and aircraft traffic passing through Changi Airport and Seletar Aerodrome.

Data on passenger arrivals and departures are obtained from airlines or their handling agents. Statistics on aircraft movements are compiled by the Authority's Aeronautical Information Services Unit and Corporate Services Division.

Monthly statistics on passengers, airfreight tonnage, aircraft landings and mail carried through Changi Airport are available in the "Air Transport Statistics" published by the CAAS.

## Roads

Data on public roads refer to the length of roads in kilometres and are classified into expressways, arterial roads, collector roads and local roads.

## Mass Rapid Transit (MRT)

SMRT Corporation Ltd (SMRT) is Singapore's multi-modal transport service provider offering integrated island-wide transport services on its extensive network of trains, buses and taxis supported by retail amenities located within its stations. SMRT operates Singapore's first mass rapid transit system comprising 53 stations along the North South and East West Lines. The 93.2 km MRT system, which started operations in 1987, serves Singapore's major high density travel corridors. The network welcomes more than a million passengers daily.

SBS Transit started operating the North-East Line (NEL) in June 2003. NEL is a highly advanced fully automated underground heavy rail system. It sets new engineering and technological benchmarks in mass transit systems. NEL is 20-kilometres long and comprises 16 stations running from Punggol to HarbourFront. The NEL has an average daily ridership of about 307,500 in 2008.

## Vehicles Registered

All vehicles to be kept or used in Singapore must be registered with the Land Transport Authority of Singapore.

## Road Casualties

Data on road casualties are compiled from police records of fatal and injury traffic accidents occurring on Singapore roads.

## 14.1 SEA CARGO AND SHIPPING STATISTICS

	1998	2003	2004	2005	2006	2007	2008
Vessel Arrivals (No)	140,922	135,386	133,185	130,318	128,922	128,568	131,695
Shipping Tonnage ('000 GT)	857,655	986,392	1,042,447	1,151,791	1,314,990	1,459,221	1,621,065
Total Cargo ('000 tonnes)	312,322	347,694	393,418	423,268	448,504	483,616	515,415
General	172,968	206,448	240,882	262,265	281,393	314,917	336,425
Bulk	139,354	141,247	152,536	161,003	167,111	168,699	178,991
Total Container Throughput ('000 TEUs)	15,136	18,411	21,329	23,192	24,792	27,935	29,918
Bunker Sales ('000 tonnes)	18,064	20,809	23,567	25,479	28,379	31,546	34,936
Singapore Ship Registry (End of Period)							
Number	3,412	3,063	3,109	3,219	3,249	3,553	3,843
'000 GT	22,025	25,572	27,711	32,963	34,793	39,603	43,702

Source : Maritime and Port Authority of Singapore

Notes : GT refers to Gross Tonnes

TEU refers to Twenty-Foot Equivalent Unit

## 14.2 CIVIL AIRCRAFT ARRIVALS/DEPARTURES, PASSENGERS AND PARCEL MAIL

	1998	2003	2004	2005	2006	2007	2008
Aircraft (No)							
Arrivals	82,590	77,173	92,437	102,035	107,092	110,352	115,930
Departures	na	77,173	92,496	102,103	107,132	110,394	115,996
Passengers ('000)							
Arriving	11,292	11,588	14,336	15,364	16,678	17,640	18,185
Departing	11,231	11,555	14,270	15,356	16,690	17,582	18,103
In Transit	1,281	1,521	1,748	1,710	1,665	1,480	1,407
Parcel Mail (Tonnes)							
In-coming	10,580	9,705	9,116	8,809	8,921	10,801	12,721
Out-going	11,354	11,298	11,438	12,080	11,746	12,592	14,234

Source : Civil Aviation Authority of Singapore

Note : Refers to Changi Airport only.

# 14.3 AIR CARGO DISCHARGED BY REGION/COUNTRY OF ORIGIN

Region/Country	Tonnes						
	1998	2003	2004	2005	2006	2007	2008
Total	651,568	803,056	870,582	892,141	952,876	963,873	951,939
South East Asia	167,875	163,167	176,927	189,621	193,227	197,648	190,824
Indonesia	66,899	55,852	59,447	62,074	61,211	60,246	59,323
Malaysia	28,675	28,202	33,680	36,339	41,618	40,117	33,450
Philippines	22,837	25,067	28,835	34,036	32,039	32,385	28,604
Thailand	41,902	43,082	43,890	48,326	49,126	53,922	56,542
North East Asia	216,981	305,437	358,085	374,188	409,983	421,580	419,926
China	16,882	48,383	61,200	73,460	84,667	94,580	97,268
Hong Kong	40,311	69,325	82,778	90,522	99,185	108,325	109,323
Japan	63,021	68,714	84,677	84,901	89,975	87,097	85,844
Korea, Republic of	41,417	45,770	52,110	47,805	55,265	56,899	58,515
Taiwan	54,880	73,120	77,182	77,315	80,896	74,679	68,699
South Asia	34,772	50,723	56,692	55,563	63,114	60,384	66,833
India	20,976	36,297	41,331	40,203	43,943	43,235	48,467
West Asia	8,362	9,077	11,777	12,057	14,894	15,019	17,156
Oceania	74,365	92,609	89,672	83,446	95,705	92,054	91,513
Australia	64,412	78,365	75,464	71,390	83,066	79,420	79,245
New Zealand	9,659	13,576	13,483	11,573	12,101	12,198	11,683
Europe	109,179	139,435	138,653	140,380	143,253	148,346	142,289
France	14,269	18,641	8,863	8,501	9,258	12,724	13,071
Germany	18,243	24,706	23,133	20,565	19,992	20,734	19,903
Netherlands	15,893	26,649	31,022	32,698	40,167	35,506	26,865
Scandinavia	13,012	20,254	23,220	25,407	19,986	18,392	20,355
Switzerland	11,393	7,776	6,851	6,776	4,990	6,486	7,114
United Kingdom	17,420	23,343	17,222	14,613	16,504	18,305	18,179
North America	35,994	38,736	35,013	32,272	28,989	25,175	19,039
United States	35,451	38,494	34,760	32,131	28,822	24,870	18,750
Other Regions	4,040	3,872	3,763	4,614	3,711	3,667	4,359

Source : Civil Aviation Authority of Singapore

Note : Refers to Changi Airport only.

Data exclude passenger baggage, diplomatic cargo and aircraft stores.

# 14.4 AIR CARGO LOADED BY REGION/COUNTRY OF DESTINATION

Region/Country	Tonnes						
	1998	2003	2004	2005	2006	2007	2008
Total	632,093	808,351	904,507	941,580	958,341	930,896	905,002
South East Asia	113,078	155,360	185,276	201,229	198,641	201,373	209,322
Indonesia	19,860	41,967	48,213	49,222	44,708	54,517	64,786
Malaysia	25,842	37,570	43,202	41,897	43,356	41,020	31,986
Philippines	25,983	28,106	36,093	37,377	37,802	37,452	35,384
Thailand	30,661	36,220	44,482	54,245	52,041	47,859	47,762
North East Asia	231,638	277,750	290,918	293,249	289,289	272,768	254,317
China	18,137	40,934	50,084	56,413	58,425	63,687	60,500
Hong Kong	54,633	61,389	65,129	67,180	70,697	67,255	67,948
Japan	79,113	75,467	73,943	78,333	68,189	60,241	56,437
Korea, Republic of	32,975	43,047	44,776	32,769	37,501	35,695	29,523
Taiwan	45,968	56,396	56,103	57,638	52,892	44,500	38,974
South Asia	38,561	45,616	59,366	65,619	80,804	91,284	94,057
India	24,694	33,539	44,455	48,373	61,246	71,290	76,322
West Asia	16,838	25,298	30,913	32,473	38,405	32,525	31,388
Oceania	58,958	80,940	90,854	95,493	102,378	99,483	101,631
Australia	49,730	68,833	77,204	80,085	87,074	85,743	87,760
New Zealand	8,561	11,681	13,194	14,641	13,386	12,535	13,081
Europe	114,016	145,263	160,147	166,141	158,648	150,550	144,479
France	15,680	20,694	13,310	9,370	9,275	12,074	13,734
Germany	19,874	22,718	30,974	28,385	25,969	25,036	27,190
Netherlands	16,072	27,217	36,452	42,811	42,683	36,000	29,648
Scandinavia	6,496	11,890	11,660	11,934	11,388	8,608	6,242
Switzerland	8,213	5,523	5,516	5,785	4,572	8,400	10,846
United Kingdom	20,159	29,205	31,654	31,414	30,835	30,045	28,079
North America	52,418	71,905	79,954	80,025	81,136	69,208	56,398
United States	51,529	71,279	79,389	79,344	80,417	68,518	55,699
Other Regions	6,586	6,219	7,079	7,351	9,040	13,705	13,410

Source : Civil Aviation Authority of Singapore

Notes : Refers to Changi Airport only.

Data exclude passenger baggage, diplomatic cargo and aircraft stores.

# 14.5 AIR PASSENGER ARRIVALS BY REGION/COUNTRY OF EMBARKATION

Region/Country	Thousand						
	1998	2003	2004	2005	2006	2007	2008
Total	11,292	11,588	14,336	15,364	16,678	17,640	18,185
South East Asia	4,602	4,458	5,417	5,732	6,232	6,520	6,792
Brunei Darussalam	132	100	102	93	94	98	103
Indonesia	1,181	1,330	1,595	1,695	1,781	1,900	2,046
Malaysia	1,601	1,079	1,211	1,191	1,212	1,235	1,347
Philippines	306	327	402	483	590	663	743
Thailand	1,182	1,343	1,727	1,792	1,951	1,895	1,683
Vietnam	131	192	263	340	408	511	610
North East Asia	2,745	2,520	3,542	3,966	4,332	4,670	4,561
China	403	658	1,096	1,240	1,430	1,628	1,545
Hong Kong	793	640	914	1,094	1,116	1,180	1,188
Japan	930	689	864	843	874	914	892
Korea, Republic of	172	271	337	375	421	422	401
Taiwan	436	248	320	390	439	450	421
South Asia	768	859	1,053	1,160	1,382	1,585	1,684
India	475	610	754	866	1,032	1,188	1,256
West Asia	143	127	201	213	259	293	340
Oceania	1,300	1,743	1,955	2,069	2,141	2,216	2,304
Australia	1,113	1,498	1,647	1,744	1,825	1,930	2,022
New Zealand	176	233	294	311	301	269	265
Europe	1,330	1,508	1,667	1,703	1,781	1,788	1,998
France	120	158	195	202	213	200	233
Germany	270	317	350	366	360	348	366
Netherlands	117	107	133	170	181	189	196
Scandinavia	64	57	64	68	57	42	39
Switzerland	102	93	107	98	110	105	163
United Kingdom	504	630	679	664	694	692	738
North America	276	259	372	389	408	403	342
United States	255	240	348	364	383	378	321
Other Regions	129	114	131	132	143	165	164

Source : Civil Aviation Authority of Singapore

Notes : Refers to Changi Airport only.

Data exclude transit passengers who continued their journey on the same flight.

# 14.6 AIR PASSENGER DEPARTURES BY REGION/COUNTRY OF DISEMBARKATION

Region/Country	Thousand						
	1998	2003	2004	2005	2006	2007	2008
Total	11,231	11,555	14,270	15,356	16,690	17,582	18,103
South East Asia	4,397	4,347	5,314	5,649	6,125	6,413	6,662
Brunei Darussalam	125	98	96	92	92	95	103
Indonesia	1,207	1,382	1,676	1,755	1,839	1,956	2,061
Malaysia	1,457	1,034	1,162	1,168	1,209	1,249	1,370
Philippines	316	318	390	461	561	622	696
Thailand	1,095	1,246	1,616	1,706	1,836	1,786	1,595
Vietnam	130	183	268	344	415	514	613
North East Asia	2,792	2,550	3,557	3,978	4,365	4,670	4,531
China	360	651	1,075	1,235	1,436	1,598	1,511
Hong Kong	824	675	948	1,106	1,132	1,195	1,179
Japan	957	686	861	836	874	924	899
Korea, Republic of	178	276	342	374	421	425	406
Taiwan	462	246	320	401	445	446	417
South Asia	765	822	1,024	1,124	1,353	1,554	1,645
India	457	569	720	826	1,003	1,164	1,233
West Asia	142	125	196	221	273	300	344
Oceania	1,376	1,824	2,039	2,153	2,262	2,293	2,423
Australia	1,183	1,566	1,731	1,824	1,942	2,009	2,137
New Zealand	182	246	293	315	304	267	269
Europe	1,321	1,494	1,629	1,687	1,766	1,781	1,982
France	123	171	205	207	215	198	228
Germany	270	316	342	353	348	343	361
Netherlands	123	113	130	172	188	199	204
Scandinavia	68	62	68	69	57	43	39
Switzerland	106	98	112	108	115	108	157
United Kingdom	473	583	631	642	671	669	721
North America	308	273	376	402	404	407	348
United States	285	251	352	373	377	380	324
Other Regions	130	120	134	141	143	164	166

Source : Civil Aviation Authority of Singapore

Notes : Refers to Changi Airport only.

Data exclude transit passengers who continued their journey on the same flight.

## 14.7 PUBLIC ROADS

(End of Period)

	Kilometres						
	1998	2003	2004	2005	2006	2007	2008
Paved Roads	3,038	3,164	3,188	3,234	3,262	3,297	3,325
Expressways	150	150	150	150	150	153	161
Arterial Roads	560	579	579	594	604	613	621
Collector Roads	345	415	426	454	468	489	500
Local Roads	1,983	2,020	2,033	2,036	2,040	2,042	2,043

Source : Land Transport Authority

## 14.8 MOTOR VEHICLE POPULATION BY TYPE OF VEHICLE

(End of Period)

	Number						
	1998	2003	2004	2005	2006	2007	2008
Total	681,081	711,043	727,395	754,992	799,373	851,336	894,682
Cars <sup>1</sup>	370,804	399,923	412,015	432,827	465,482	505,987	540,455
Rental Cars	6,536	7,803	7,455	7,756	9,235	11,054	12,391
Taxis	17,886	19,384	20,407	22,383	23,334	24,446	24,300
Buses	11,429	12,951	13,173	13,494	14,120	14,530	15,327
Motorcycles & Scooters	133,375	135,649	137,029	139,434	142,736	144,340	146,120
Goods & Other Vehicles	141,051	135,333	137,316	139,098	144,466	150,979	156,089

Source : Land Transport Authority

<sup>1</sup> Includes private and company cars.

## 14.9 CAR POPULATION BY CC RATING

(End of Period)

CC Rating	Number						
	1998	2003	2004	2005	2006	2007	2008
Total	375,217	405,328	417,103	438,194	472,308	514,685	550,455
1,000 cc & below	52,183	20,892	14,976	9,514	7,109	7,544	7,777
1,001 to 1,600 cc	214,321	238,659	243,663	258,373	277,522	297,394	312,367
1,601 to 2,000 cc	78,775	94,372	99,777	105,201	114,206	125,730	138,125
2,001 to 3,000 cc	23,816	45,401	52,371	58,257	65,332	74,202	80,415
3,001 cc & above	6,122	6,004	6,316	6,849	8,139	9,815	11,771

Source : Land Transport Authority

Notes : Data refer to private cars, company cars and rental cars only.

They do not include taxis and tax exempted cars.

## 14.10 AGE DISTRIBUTION OF CARS

(End of Period)

Age (Years)	Number						
	1998	2003	2004	2005	2006	2007	2008
Total	375,217	405,328	417,103	438,194	472,308	514,685	550,455
Below 1	27,898	81,244	96,670	109,165	116,741	106,502	96,945
1 - below 2	24,976	62,827	81,164	96,518	109,075	116,656	106,440
2 - below 3	28,683	66,234	60,289	78,754	93,240	108,606	116,471
3 - below 4	31,984	47,358	56,374	46,496	63,124	81,376	102,520
4 - below 5	32,575	27,250	27,860	34,396	26,056	42,069	60,442
5 - below 6	39,294	22,390	13,038	10,562	15,655	12,678	23,981
6 - below 7	29,100	8,327	15,284	6,644	5,823	10,607	8,570
7 - below 8	28,003	12,810	4,311	8,462	3,398	3,638	7,668
8 - below 9	30,771	10,545	6,970	2,284	4,456	2,024	2,474
9 - below 10	29,976	6,747	4,538	3,250	1,174	2,288	1,131
10 - below 11	2,638	4,207	811	644	1,131	502	594
11 - below 12	2,324	13,164	4,165	787	634	1,125	498
12 - below 13	2,232	14,236	12,979	4,003	746	621	1,113
13 - below 14	2,218	6,678	13,490	12,431	3,617	698	604
14 - below 15	4,637	6,834	4,395	11,822	10,967	3,223	649
15 & above	57,908	14,477	14,765	11,976	16,471	22,072	20,355

Source : Land Transport Authority

Notes : Data refer to private cars, company cars and rental cars only.

They do not include taxis and tax exempted cars.

## 14.11 ROAD CASUALTIES

	Number						
	1998	2003	2004	2005	2006	2007	2008
Total Casualties <sup>1</sup>							
Killed	221	212	193	173	190	214	221
Injured	7,448	8,023	8,439	8,224	9,706	10,352	10,760
Pedestrians							
Killed	67	64	46	41	42	58	62
Injured	804	792	824	662	924	1,036	1,114
Pedal Cyclists, Trishaw Riders & Passengers							
Killed	15	17	17	18	14	22	22
Injured	252	356	379	358	493	519	585
Motor Cyclists & Pillion Riders							
Killed	87	94	95	95	102	102	108
Injured	3,641	4,272	4,599	4,526	4,943	5,358	5,218
Motor Vehicle Drivers & Passengers							
Cars & Station Wagons							
Killed	30	27	23	8	18	21	23
Injured	1,751	1,860	1,796	1,770	2,306	2,320	2,562
Bus/Goods Vehicle/Van							
Killed	21	10	10	9	13	11	6
Injured	959	687	771	755	917	1,026	1,158

Source : Traffic Police Department

<sup>1</sup> Includes other categories of road users not shown in table.

## 14.12 VEHICLES INVOLVED IN ROAD ACCIDENTS BY TYPE OF VEHICLE

	Number						
	1998	2003	2004	2005	2006	2007	2008
Total	9,781	11,227	11,885	11,542	13,052	14,373	14,995
Pedal Cycles	267	376	413	392	520	551	612
Motor Cycles & Scooters	3,351	3,999	4,297	4,226	4,533	5,024	4,954
Motor Cars & Station Wagons	4,103	4,830	4,943	4,721	5,638	6,178	6,535
Light Goods Vehicles	608	567	598	607	621	732	742
Heavy Goods Vehicles <sup>1</sup>	967	887	1,014	889	1,050	1,146	1,287
Buses	403	402	431	393	470	514	542
Others	82	166	189	314	220	228	323

Source : Traffic Police Department

Note : Data refer to vehicles involved in fatal and injury accidents.

<sup>1</sup> Covers lorries, tippers/trucks and trailers only.

# 14.13 MASS RAPID TRANSIT OPERATION AND RIDERSHIP

	1998	2003	2004	2005	2006	2007	2008
Total Train Km Operated ('000)	12,238	14,764	14,902	14,994	15,214	15,421	16,548
Total Number of Passengers ('000)	346,543	418,842	466,605	482,258	511,187	554,807	619,318
Average Number of Weekday Passengers (No)	988,100	1,280,000	1,343,000	1,404,000	1,498,000	1,622,000	1,799,000
Average Weekday Traffic of Selected Stations (No)							
Ang Mo Kio	90,400	79,000	76,000	75,700	78,200	92,100	105,600
City Hall Station	94,800	102,300	101,900	103,600	111,300	119,100	130,500
Orchard Station	88,500	89,100	94,500	97,900	101,000	103,300	106,700
Raffles Place Station	104,600	97,700	99,400	105,700	115,000	126,000	133,800
Tanjong Pagar	70,800	70,100	72,100	75,100	81,800	87,500	94,000
Dhoby Ghaut	na	na	na	na	83,100	95,400	120,300
HarbourFront	na	na	na	na	39,900	58,000	67,000
Outram Park	na	na	na	na	68,400	83,500	101,900

Source : SMRT Trains Ltd  
SBS Transit Ltd

# 14.14 POSTAL ARTICLES HANDLED AND TELECOMMUNICATIONS

	1998	2003	2004	2005	2006	2007	2008
Postal Articles Handled (million)	1,476	1,589	1,612	1,628	1,711	1,862	1,911
Subscribers <sup>1</sup> ('000)							
Fixed Line	1,752	1,897	1,863	1,848	1,851	1,859	1,872
Residential	1,069	1,127	1,100	1,088	1,092	1,087	1,096
Corporate	683	770	763	759	759	772	776
Mobile Phone	1,020	3,477	3,861	4,257	4,638	5,619	6,340
Post-paid (2G)	na	na	2,614	2,565	1,960	1,318	792
Pre-paid (2G)	na	na	1,247	1,517	1,794	2,600	3,075
3G <sup>2</sup>	na	na	na	175	884	1,701	2,474
Dial-up Internet <sup>3</sup>	394	1,796	1,714	1,618	1,522	1,057	104
Broadband <sup>4</sup>	na	386	506	630	758	956	1,263
Residential	na	360	464	576	697	879	1,154
Corporate	na	25	42	54	60	77	108
Total SMS Messages <sup>5</sup> (million)	na	na	3,956	8,648	10,483	11,902	16,497
International Telephone							
Call Minutes <sup>6</sup> (million)	791	3,074	4,131	4,778	5,074	6,303	8,457

Source : Singapore Post

Infocomm Development Authority of Singapore

- 1 Figures refer to end of period.
- 2 Prior to November 2007, data cover post-paid subscriptions.  
With effect from November 2007, data include pre-paid and post-paid 3G subscriptions.
- 3 With effect from 2001, data include contributions from Internet Access Service Providers (IASPs).  
With effect from April 2008, data cover paid Internet access subscriptions only, following the cessation of free dial-up Internet access offered by service providers by 31 March 2008.
- 4 Breakdown of residential and corporate broadband subscribers are not available prior to 2002.  
With effect from July 2004, the total number of broadband subscriptions includes xDSL, cable modems, leased line internet and other broadband internet access methods.
- 5 Year 2004 data cover July to December 2004.  
With effect from January 2005, data include 2G and 3G phones.  
Includes both sent and received SMS messages.
- 6 For 1998, data include real-time fax and budget call services.  
Prior to 2001, data exclude calls to Malaysia.  
With effect from 2001, data include traffic contributed by new service providers such as International Simple Resale (ISR) operators.  
With effect from July 2004, data include all Service-Based Operators (SBO).