
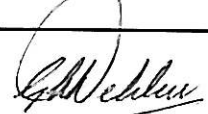




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The views and opinions expressed in this report are those of the authors and do not necessarily represent Department of Transport policy.

The Department of Transport does not accept liability for the consequences of applying the findings expressed in this report.

REVIEW STATEMENT

This report has been reviewed internally by the CSIR and the Department of Transport.

EXPLANATORY NOTES

Please note that this publication incorporates the latest information available at the time of publication. In a few cases, there is a time lag of one or two years in the information; this is due to the process of gathering and analysing information being time-consuming.

There are a few changes in this publication compared with last year. The table on expenditure on national roads by authority in the Road Transport section has been broken down into nine provinces. Therefore, the tables that contained information on the four provinces are no longer included.

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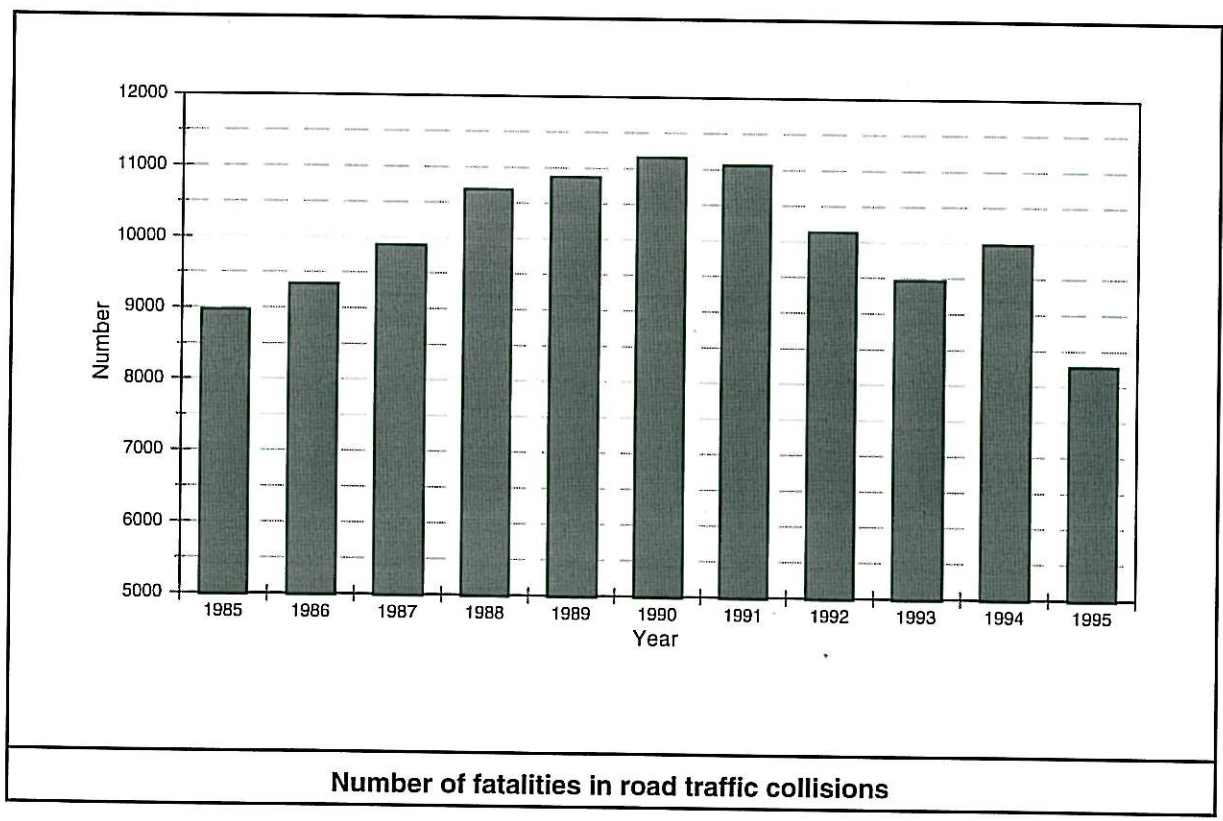
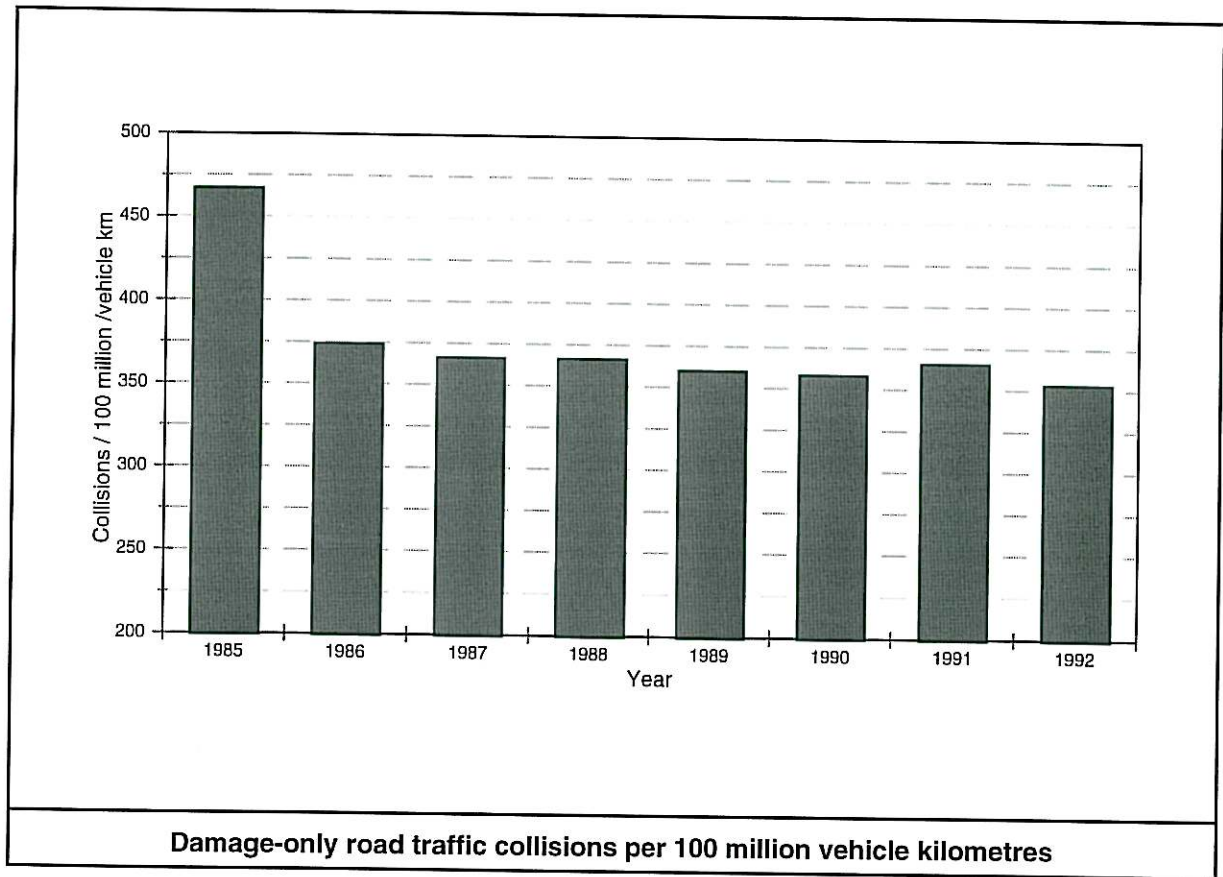
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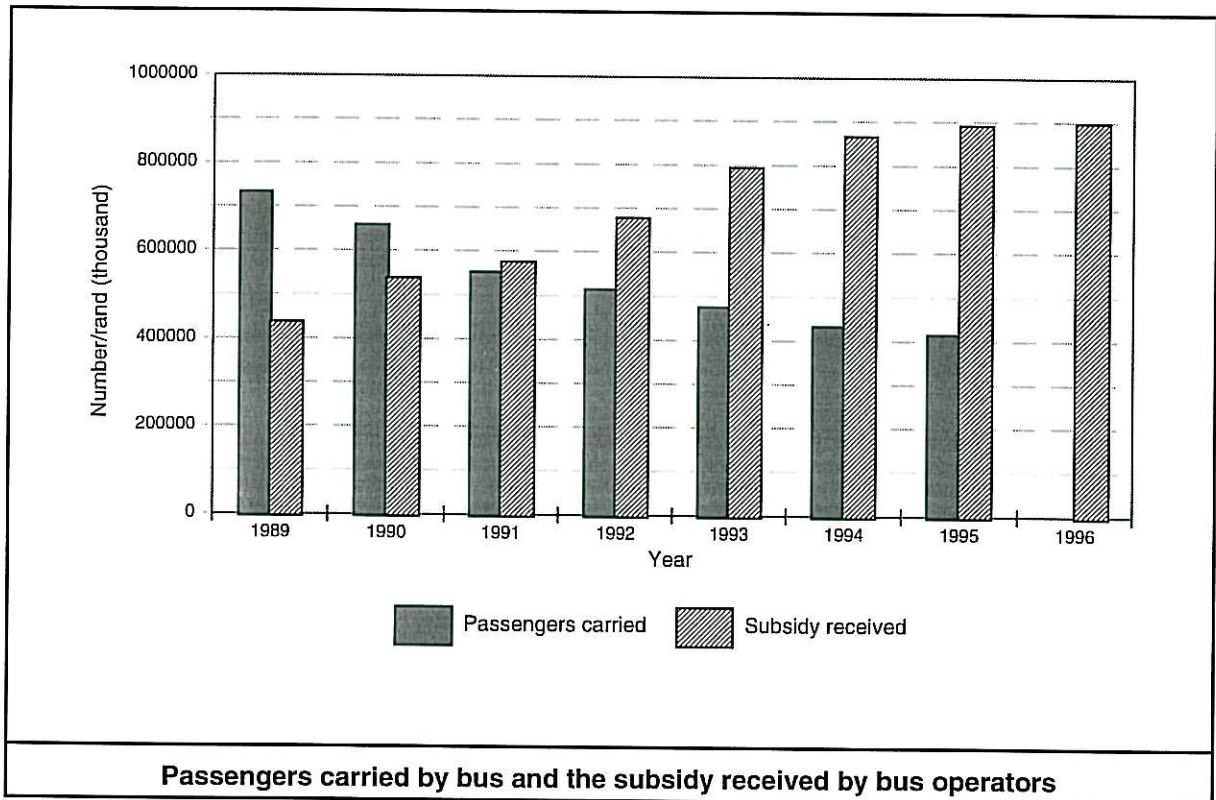
NOTES TO THE TABLES AND FIGURES

1. The symbol - denotes zero or small enough to be ignored.
2. The symbol .. denotes that the figure is not available.
3. A billion = 1 000 million.
4. All data which differ from those given in previous reports must be considered revised. Revised figures are indicated with an asterisk (*).
5. Most of the data have been taken from officially published sources; where estimates are used, these are indicated. Where no source is indicated, the statistics were calculated from other tables.
6. The Central Statistics Service have rounded off their figures. There are thus some discrepancies in the sums of the constituent amounts and the totals shown.



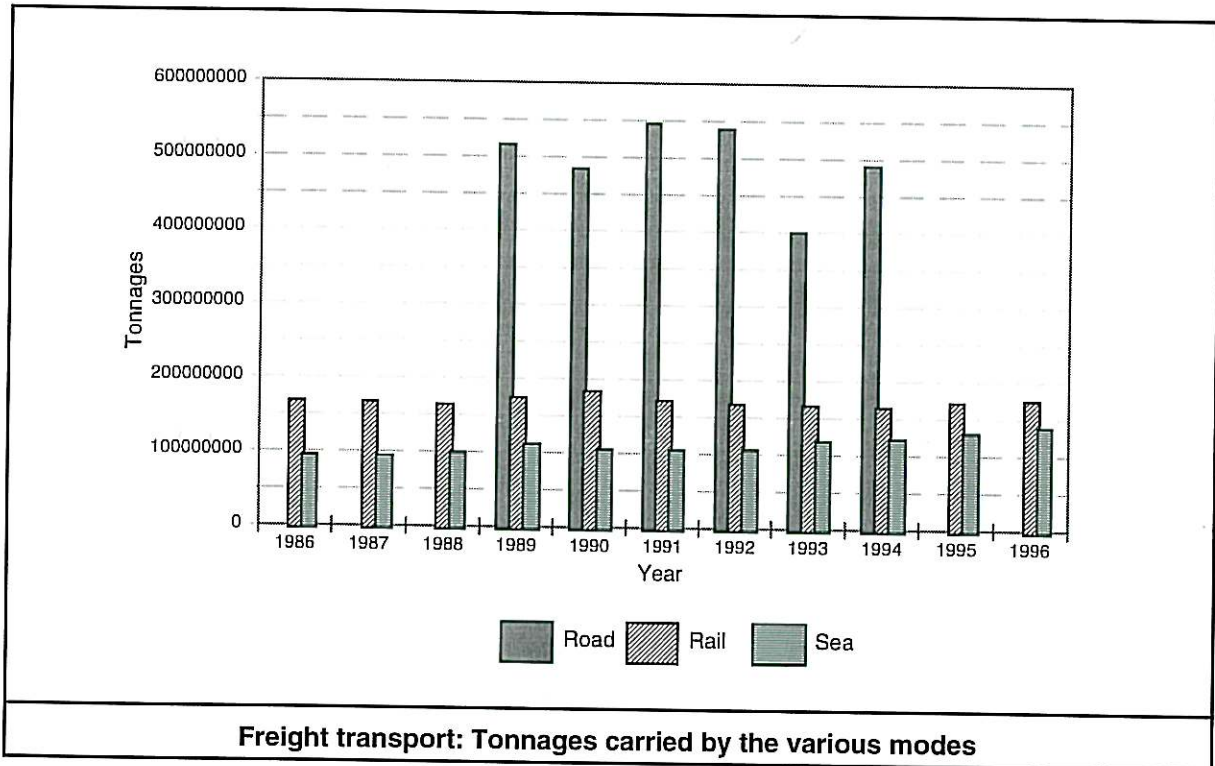
Passenger transport: Bus transport

The total value of subsidies received by the bus operators from the Department of Transport and other institutions has increased notably over the past eight years (1988/89 to 1995/96), namely by 105% to R898 056 million in 1995/96. No information was available on the breakdown of the subsidy between the sources. The number of passengers transported by bus is also not available.

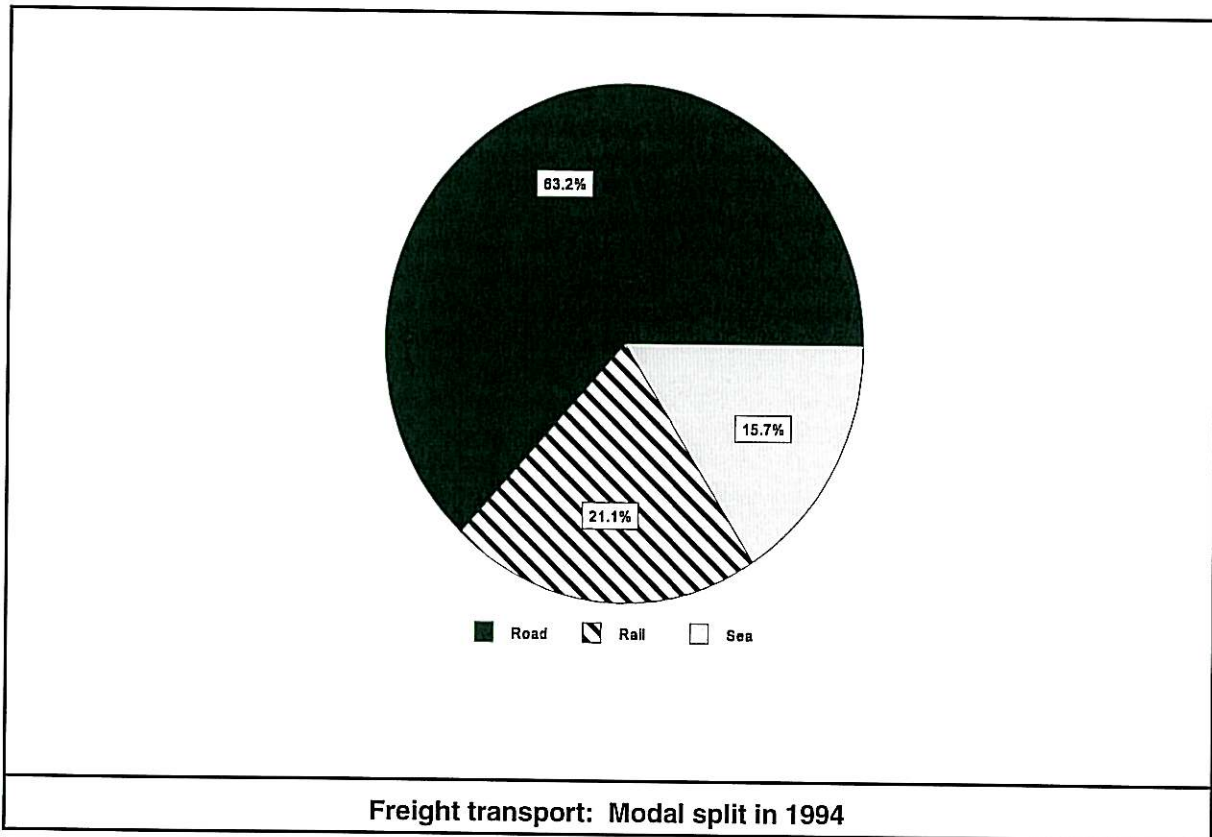


Freight transport

The graph represents the freight carried by the various transport modes, i.e. road, rail and sea. The only comparative period for all three types of transport is 1989 to 1994, as data for the road freight transport operators are only available for this period.

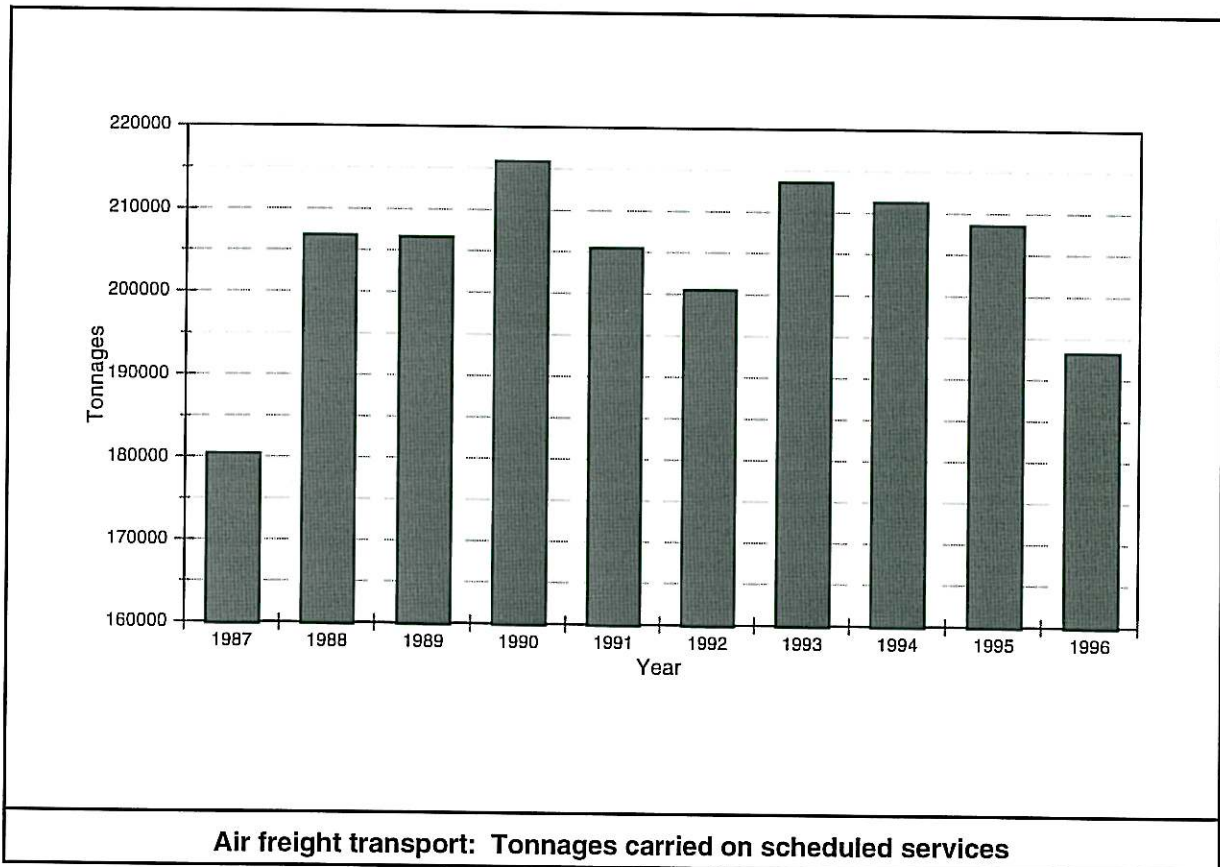


The graph below shows that road freight recovered remarkably by 22,8% from its previous low level in 1993 to 490 871 761 tons in 1994. Road freight now represents the largest share (63,2%) of the freight transport industry, whilst rail has 21,1% and sea transport 15,7%.

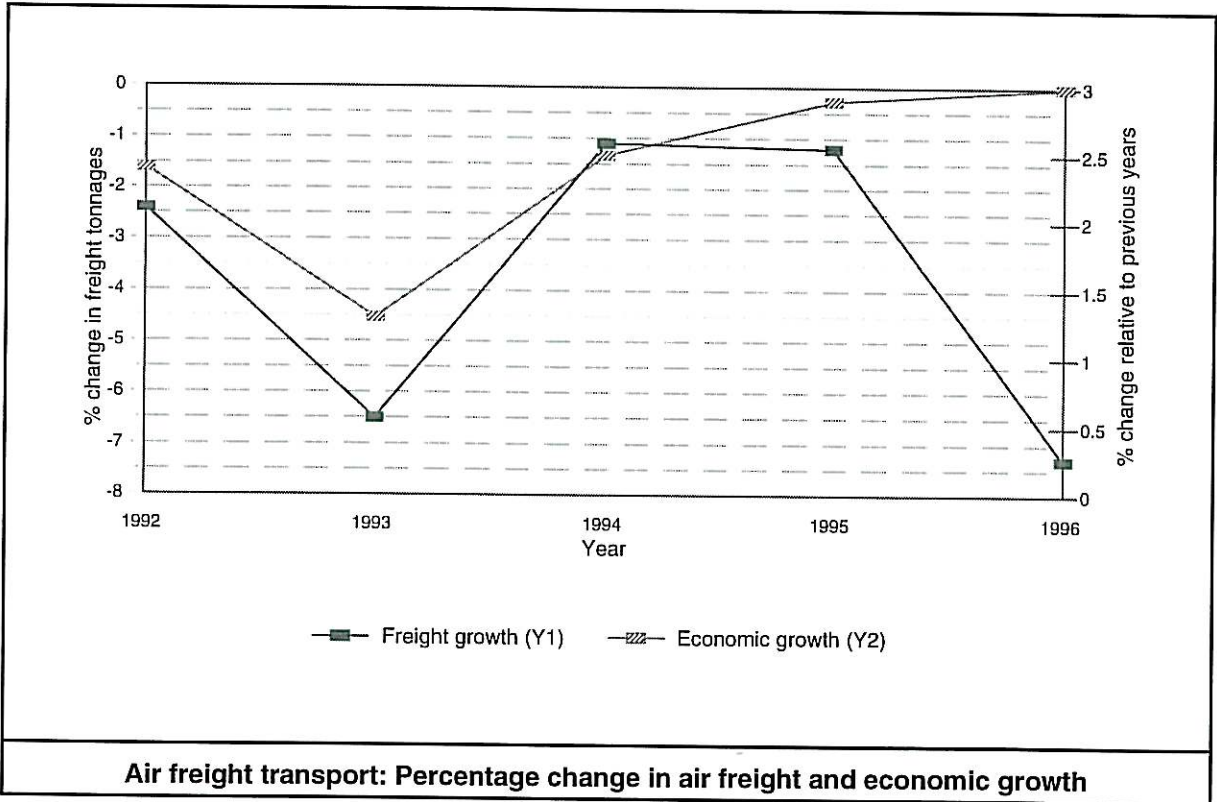


Air transport: State Airports

The following graphs depict air freight traffic tonnages and air freight and economic growth for scheduled services at state airports. In the 1995/96 financial year, 193 235 tons of freight (including mail and excess baggage) were carried by air on scheduled services.

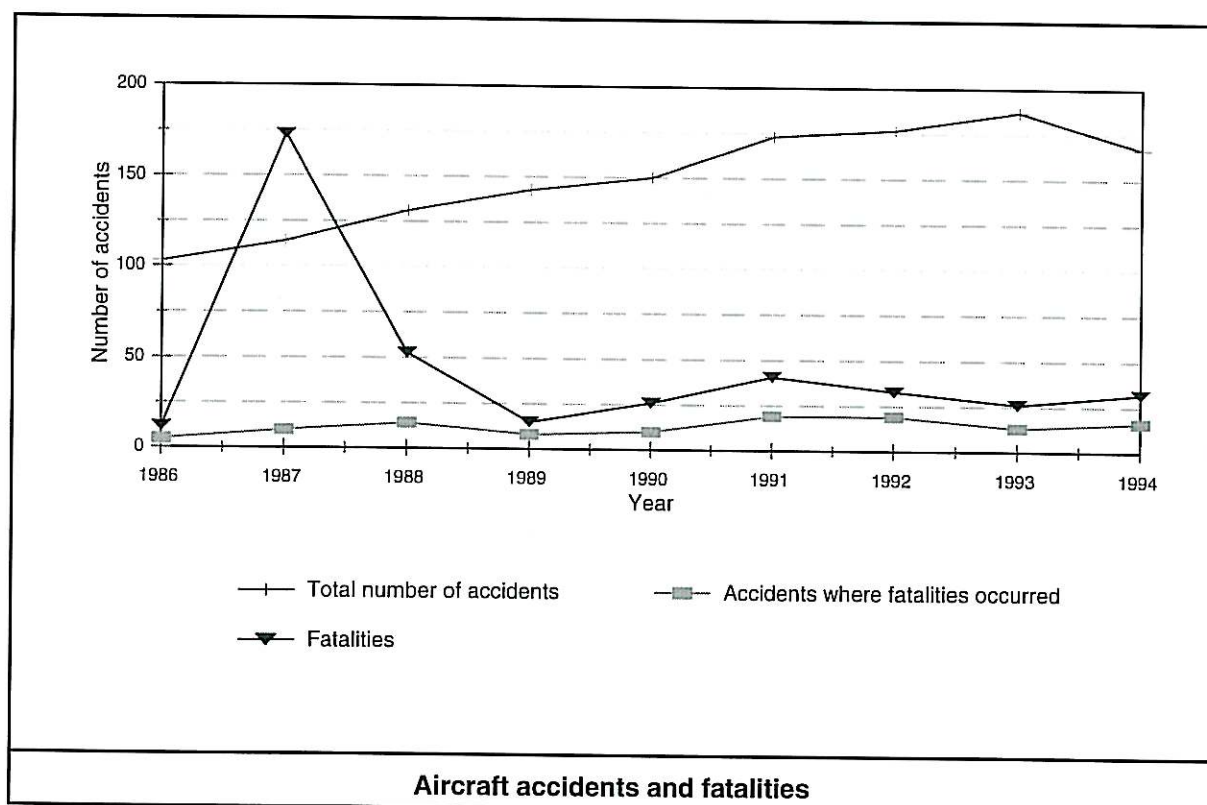


It is clear from the graph below that air freight and economic growth have varied extensively over the past five years. However, it is interesting to note that during the period 1993 to 1996, economic growth remained positive whilst air freight flows experienced negative growth. For example, air freight figures declined by 7,3% in 1996 compared with 1995, whilst the economy grew by 3,0% during the same period. This is surprising because, in general, transport industry leaders associate positive economic growth with positive freight flows.



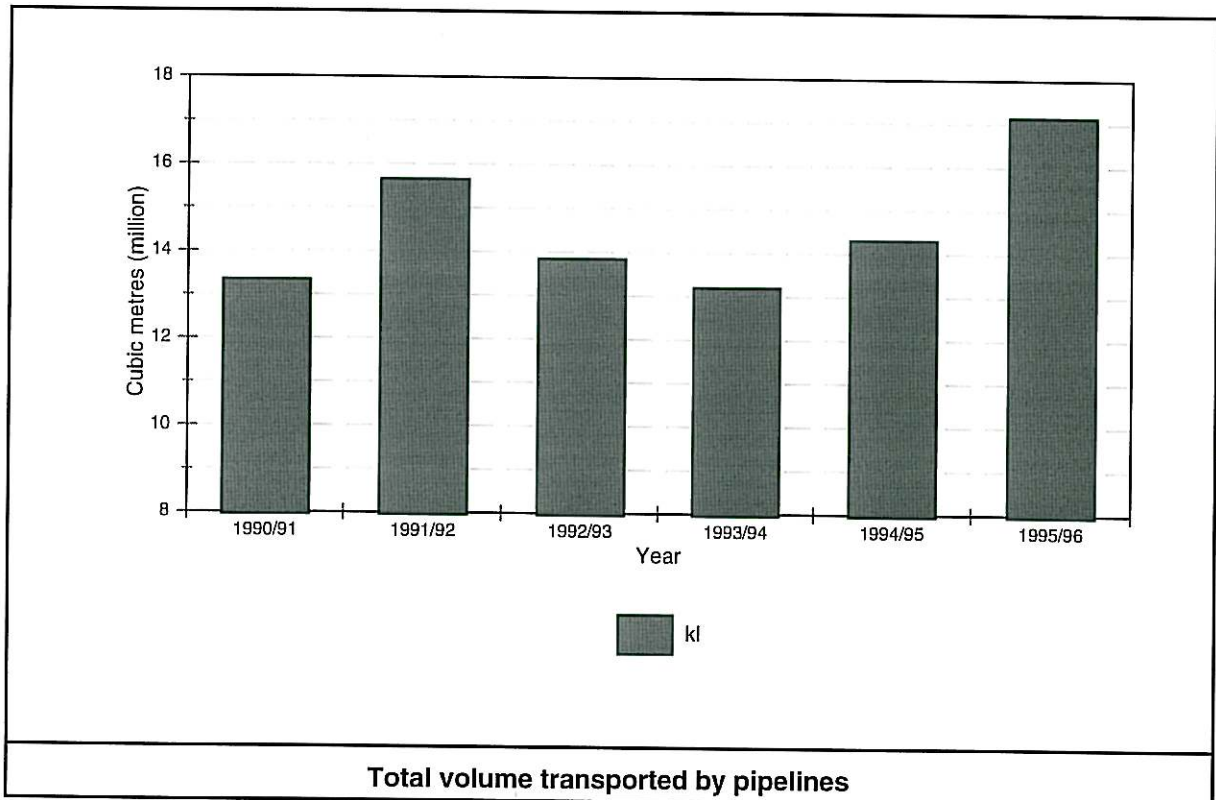
Air transport: Accidents

This graph below indicates the steady increase in the number of accidents between 1986 and 1993, but also shows the decline that occurred for the first time in 1994 to 167 accidents. The peak in fatalities in 1987 can be attributed to the South African Airways Boeing *Helderberg* which crashed in the Indian Ocean.



Petroleum

Petronet, a business unit of Transnet, supplies information on the petroleum products which they transport through their liquid petroleum pipeline network. These include petrol, diesel, leaded fuel and aviation turbine fuel. The graph below shows that the volumes transported by pipelines reached their highest level in 1995, totalling 17 160 700 cubic metres. This is a 19,9% increase compared with the previous year.



PART II: Statistics

1 Transport and the economy

Index	Year										
	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
1990 = 100 Consumer Price Index	58,2	67,6	76,2	87,4	100,0	115,3	131,3	144,1	157,0	170,6	183,2
Total transport prices	58,9	65,0	72,1	87,4	100,0	118,6	134,6	154,4	167,9	179,3	190,1
Vehicle purchase price											
Passenger vehicles	48,2	59,3	70,1	87,7	100,0	122,4	144,4	168,1	187,8	203,0	208,5
Total running costs	65,3	66,1	71,1	87,5	100,0	112,4	125,9	143,7	151,7	161,7	177,7
Public and hired transport	73,4	75,7	78,0	86,5	100,0	119,6	129,7	145,1	157,1	163,9	174,4
June 1995 = 100 Production Price Index	39,3	44,8	50,7	58,4	65,4	72,9	78,9	84,1	91,0	99,7	106,6
Vehicle purchase price											
Commercial vehicles (Trucks)	29,8	37,3	44,3	53,5	59,8	65,0	74,5	82,4	92,3	98,6	98,7
Fuel prices ¹											
Petrol	42,9	41,9	46,3	60,3	67,5	72,9	80,1	91,9	94,7	95,5	107,2
Diesel	46,1	45,5	46,9	61,4	68,8	77,3	83,3	92,5	96,0	97,4	127,0

Witwatersrand prices.

Central Statistical Service

	Year					
	1991	1992	1993	1994	1995	1996
At current prices						
Gross Domestic Product at factor cost	278 137	309 085	345 949	385 092	430 424	482 974
Transport and communications sector	21 283	25 232	26 780	29 030	32 691	37 154
Percentage (%) of GDP	7,7	8,2	7,7	7,5	7,6	7,7
At constant 1990 prices						
Gross Domestic Product at factor cost	244 549	238 711	242 485	248 575	255 497	263 315
Transport and communications sector	17 975	18 316	18 748	19 444	..	21 109

Central Statistical Service

¹ The GDP is the total of all final goods and services produced within South Africa during the calendar year, that is the sum of products available for consumption or for investment. This total is expressed in monetary values and is applicable to the Rand Monetary Area, excluding Lesotho, Swaziland and Namibia.

² The transport sector consists of all commercial transport of goods and passengers by all modes of transport.

	Province									
	Western Cape	Eastern Cape	Northern Cape	Free State	KwaZulu-Natal	North West	Gauteng	Mpumalanga	Northern Province	Total
Total GDP (million rand):										
1988										
1991	23 822	13 664	3 935	12 754	26 630	11 999	66 736	14 959	5 779	180 278
1993	38 546	21 020	5 913	17 603	41 461	15 505	103 871	23 340	10 529	277 788
1994	48 262	26 227	7 304	21 398	51 430	18 961	130 386	27 955	12 995	344 918
	53 874	29 049	8 000	23 688	57 007	21 252	144 359	31 175	14 158	382 562
Transport and communication sector (million rand):										
1988										
1991	2 355	1 494	543	865	3 329	328	5 769	522	255	15 460
1993	3 139	2 025	654	1 209	4 619	443	7 899	855	392	21 235
1994	3 975	2 550	823	1 523	5 826	559	9 955	1 076	493	26 780
	4 312	2 757	890	1 646	6 304	605	10 766	1 163	533	28 976
Contribution to total GDP (%):										
1988										
1991	13,2	7,6	2,2	7,1	14,7	6,7	37,0	8,3	3,2	100,0
1993	13,9	7,6	2,1	6,3	14,9	5,6	37,4	8,4	3,8	100,0
1994	14,0	7,6	2,1	6,2	14,9	5,5	37,8	8,1	3,8	100,0
	14,1	7,6	2,1	6,2	14,8	5,6	37,7	8,2	3,7	100,0
Average annual increase (%):										
1988-1991										
1991-1993	17,4	15,4	14,5	11,3	15,9	8,9	15,9	16,0	22,1	15,3
	11,9	11,7	11,1	10,3	11,4	10,6	12,0	9,4	11,1	11,1

Central Statistical Service

Year	Population group				
	Blacks	Whites	Coloureds	Asians	Total
1991	28 618	5 086	3 314	994	38 012
1992	29 325	5 121	3 365	1 008	38 819
1993	30 035	5 156	3 414	1 024	39 629
1994	30 746	5 191	3 461	1 038	40 436
1995	31 461	5 224	3 508	1 051	41 244
1996 ²	..	..	..	..	37 859

Central Statistical Service

¹ Mid-year estimates, according to the boundaries valid as for the 1991 Population Census, with the inclusion of Transkei, Bophuthatswana, Venda and Ciskei.

² This is the preliminary estimate of the 1996 census for the population of South Africa.

Table 1.5: Population density by province (June 1995)

	Province									
	Western Cape	Eastern Cape	Northern Cape	Free State	KwaZulu-Natal	North West	Gauteng	Mpumalanga	Northern Province	Total
Area (km ²)	129 370	169 600	361 800	129 480	92 180	116 190	18 810	78 370	123 280	1 219 080
Percentage of total area	10,6	13,9	29,7	10,6	7,6	9,5	1,6	6,4	10,1	100,0
Population density (number / km ²)	28,8	38,2	2,0	21,5	94,5	28,8	374,7	38,4	43,8	33,8

Central Statistical Service

Table 1.6: Total population by geographical area and population group (June 1995)

Province	Population group				
	Blacks	Whites	Coloureds	Asians	Total
Western Cape	675 500	885 800	2 124 800	35 100	3 721 200
Percentage (%) urbanised	88,8	92,62	82,96	..	..
Eastern Cape	5 649 600	374 400	441 000	16 300	6 481 300
Percentage (%) urbanised	24,44	90,81	84,52	..	..
Northern Cape	221 800	121 500	397 200	1 880	742 380
Percentage (%) urbanised	71,43	79,41	71,89	..	..
Free State	2 332 800	373 500	73 000	3 170	2 782 470
Percentage (%) urbanised	48,03	87,29	..	..	..
KwaZulu-Natal	7 205 600	600 800	107 400	799 300	8 713 100
Percentage (%) urbanised	25,56	92,30	..	5,59	..
North West	3 008 470	272 210	60 530	10 580	3 351 790
Percentage (%) urbanised	26,68	76,98	..	..	..
Gauteng	4 444 500	2 153 100	282 100	168 800	7 048 500
Percentage (%) urbanised	95,17	96,91	..	..	..
Mpumalanga	2 685 000	295 100	15 060	11 880	3 007 040
Percentage (%) urbanised	25,82	75,17	..	..	..
Northern Province	5 237 700	148 000	6 860	4 640	5 397 200
Percentage (%) urbanised	7,24	69,01	..	..	..
RSA	31 460 970	5 224 060	3 507 950	1 051 450	41 244 430
Percentage (%) urbanised	35,61	91,08	..	..	..

Central Statistical Service

Table 1.7: Economically and not economically active population (15 years and older) (1995) (thousands)

Provinces	Population 15 years and older	Not economically active	Economically active			
			Total	Workers	Unemployed	Rate
Western Cape						
Urban	2 345	902	1 474	1 163	311	21,1
Non-urban	376	85	260	249	11	4,4
Total	2 721	987	1 734	1 412	323	18,6
Eastern Cape						
Urban	1 547	684	863	573	290	33,6
Non-urban	2 276	1 400	876	446	431	49,2
Total	3 823	2 084	1 739	1 019	721	41,4
Northern Cape						
Urban	350	165	185	121	65	34,9
Non-urban	145	45	100	87	13	12,7
Total	496	211	285	208	77	27,2
Free State						
Urban	1 139	511	628	429	198	31,6
Non-urban	655	234	422	347	75	17,8
Total	1 794	745	1 050	776	274	26,1
KwaZulu-Natal						
Urban	2 377	952	1 425	1 085	340	23,9
Non-urban	2 981	1 682	1 299	738	561	43,2
Total	5 358	2 634	2 724	1 823	901	33,1
North West						
Urban	948	378	570	429	141	24,7
Non-urban	1 181	604	577	342	235	40,7
Total	2 129	982	1 147	771	376	32,8
Gauteng						
Urban	5 070	1 681	3 389	2 659	730	21,5
Non-urban	293	98	195	176	20	10,1
Total	5 363	1 778	3 584	2 835	750	20,9
Mpumalanga						
Urban	622	285	338	238	100	29,6
Non-urban	1 215	580	635	410	225	35,4
Total	1 837	865	973	648	325	33,4
Northern Province						
Urban	392	163	229	174	55	24,2
Non-urban	2 530	1 640	890	487	403	45,3
Total	2 922	1 803	1 119	660	459	41,0
RSA						
Urban	14 822	5 720	9 101	6 871	2 230	24,5
Non-urban	11 662	6 368	5 254	3 281	1 974	37,6
Total	26 444	12 088	14 356	10 152	4204	29,3

Central Statistical Service

October household survey.

Comprises both the formal and informal sectors.

Percentage unemployed of total economically active population.

Table 1.8: Number of workers in the transport, storage and communications sector (1995) (thousands) ^{1,2}

Province	Population group				
	Blacks	Whites	Coloureds	Asians	Total ³
Western Cape	10	27	33	1	71
Eastern Cape	25	8	3	..	36
Northern Cape	1	4	2	1	8
Free State	15	7	..	..	22
KwaZulu-Natal	59	17	1	15	92
North West	34	7	..	..	41
Gauteng	101	89	5	4	199
Mpumalanga	24	6	..	..	30
Northern Province	15	3	..	..	18
Total	284	168	44	21	517

Central Statistical Service

¹ October household survey.

² Comprises both the formal and informal sectors.

³ The values in this column are the totals of the relevant specified numbers.

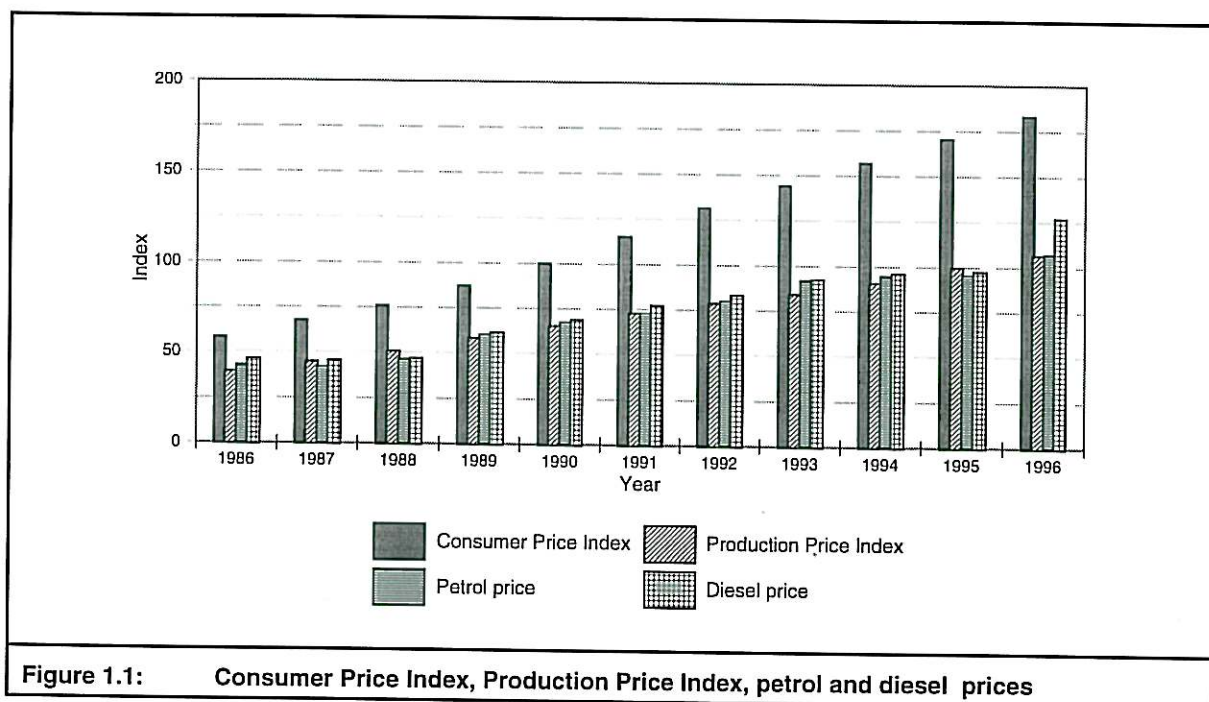


Figure 1.1: Consumer Price Index, Production Price Index, petrol and diesel prices

Table 1.9: Employment in some subsectors of the formal transport sector					
Year as on 30 June	Population group				
	Blacks	Coloureds	Asians	Whites	Total
Transnet¹					
1985	106 090	17 894	1 899	105 385	231 268
1986	99 465	17 157	1 856	99 569	218 047
1987	90 827	16 238	1 569	88 797	197 431
1988	85 425	14 898	1 566	82 633	184 522
1989	81 746	14 372	1 717	80 561	178 396
1990	77 391	13 638	1 791	74 471	167 291
1991	73 744	13 174	1 952	73 236	162 106
1992	70 866	12 566	2 070	70 567	156 069
1993	61 032	9 985	2 046	58 874	131 937
1994	..	..	..	..	116 319
1995	51 864	9 914	2 685	49 228	113 691
Passenger transport²					
1985	24 153	3 510	656	2 837	31 156
1986	22 088	3 400	636	2 297	26 421
1987	21 415	3 449	683	2 243	27 790
1988	20 779	3 524	537	2 168	27 008
1989	19 967	3 246	465	2 174	25 852
1990	20 345	3 268	831	2 340	26 784
1991	18 729	3 024	1 044	2 197	24 994
1992	18 202	3 089	1 267	2 181	24 739
1993	15 535	2 508	1 538	1 899	21 480
1994	15 005	2 024	1 436	1 860	20 325
1995	15 993	1 989	1 436	1 683	21 101
Goods road transport³					
1985	41 809	8 139	3 856	7 503	61 307
1986	40 112	7 649	3 568	7 480	58 809
1987	41 867	6 355	3 626	7 778	59 626
1988	46 047	7 432	4 009	8 100	65 588
1989	48 511	7 066	3 160	8 589	67 326
1990	44 758	7 814	3 382	9 282	65 236
1991	35 889	6 545	2 417	8 056	52 907
1992	35 635	7 201	2 261	8 118	53 215
1993	35 668	9 064	2 404	8 484	55 620
1994	35 187	7 976	2 277	7 998	53 438
1995	38 273	7 712	2 451	8 657	57 093
Total: Formal transport sector					
1985	172 052	29 543	6 411	115 725	323 731
1986	161 665	28 206	6 060	109 346	305 277
1987	154 109	26 042	5 878	98 818	284 847
1988	152 251	25 854	6 112	92 901	277 118
1989	150 224	24 684	5 342	91 324	271 574
1990	142 494	24 720	6 004	86 093	259 311
1991	128 362	22 749	5 414	83 561	240 086
1992	124 703	22 856	5 598	80 866	234 023
1993	112 235	21 557	5 988	69 257	209 037
1994	..	..	..	..	190 082
1995	..	..	..	..	..

Table 1.9 (continued) : Employment in some subsectors of the formal transport sector					
Year as on 30 June	Population group				
	Blacks	Coloureds	Asians	Whites	Total
Transport, storage and communication sector ⁴					
1991	158 290	35 154	8 285	141 611	343 340
1992	154 470	35 187	8 560	136 778	334 995
1993	140 108	33 264	8 943	120 757	303 072
1994	77 618	21 487	6 702	58 516	280 642 ⁵
1995	..	..	..	..	..
Economically active population					
1985	6 523 000	1 182 000	322 000	2 107 000	10 134 000
1991	9 159 000	1 419 000	391 000	2 431 000	13 400 000
1992	9 389 000	1 446 000	397 000	2 447 000	13 679 000
1993	9 619 000	1 468 000	403 000	2 463 000	13 953 000
1994	9 850 000	1 488 000	408 000	2 480 000	14 226 000
1995	10 078 000	1 509 000	414 000	2 496 000	14 497 000

Central Statistical Service

¹ All services of Transnet included.

² Public transport operators excluding Transnet and municipal passenger transport departments. The data are based on a monthly sample survey.

³ Private operators transporting goods for reward (excluding Transnet). Transport activities owned or operated as an ancillary service are not included. The former TBVC States are excluded. The data are based on a monthly sample survey.

⁴ Transporters of passengers and goods per road by private transport enterprises, Transnet Ltd, South African Post Office Ltd, Telkom SA Ltd and the South African Broadcasting Corporation.

⁵ Includes an unspecified total of 116 319.

2 Road transport

2.1 INFRASTRUCTURE: FINANCE

Table 2.1.1: Expenditure per road authority on provincial roads (thousand rand)				
Financial year ending 31 March 1996				
	Construction	Maintenance	Administration	Total
Western Cape: Department of Transport and Public Works	126 348	126 674	138 452	391 474
Eastern Cape: Department of Public Works	96 918	256 271	9 231	362 420
Northern Cape: Department of Transport	64 033	65 536	6 829	136 398
Free State: Department of Public Works and Roads	71 515	105 615	97 212	274 342
KwaZulu-Natal: Department of Transport	76 790	199 457	9 835	286 082
North West: Department of Public Works	99 658	199 932	25 602	325 192
Gauteng: Public Transport and Roads	25 625	70 502	8 121	104 248
Mpumalanga: Department of Public Works, Roads and Transport	66 920	141 600	17 030	225 550
Northern Province: Department of Public Works ¹	..	..	..	..

Provincial Departments

¹ Data on the Northern Province are not available.

Table 2.1.2: Direct expenditure on national roads by the South African Roads Board, by province (i.e. excluding administration cost) (rand)			
Financial year ending 31 March 1996			
	Construction	Maintenance	Total
Western Cape	26 487 311	36 993 063	63 480 374
Eastern Cape	14 159 198	7 072 936	21 232 134
Northern Cape	-	1 092 345	1 092 345
Free State	55 890 515	23 077 614	78 968 129
KwaZulu-Natal	94 376 509	6 514 587	100 891 096
North West	-	-	-
Gauteng	1 986 901	26 896 038	28 882 939
Mpumalanga	54 100 375	30 414 366	84 514 741
Northern Province	18 317 770	4 357 841	22 675 611

South African Roads Board

Table 2.1.3: Expenditure on national roads by road authority (rand)				
Financial year ending 31 March 1996				
	Construction	Maintenance	Administration	Total
National Road Fund	265 318 579	136 418 791	29 670 696	431 408 066
Western Cape		7 026 548	106 977	7 133 525
Eastern Cape		-	9 000 546	9 000 546
Northern Cape		1 057 724	817 157	1 874 881
Free State		4 183 522	151 000	4 334 522
KwaZulu-Natal		13 081 878	1 509 320	14 591 198
Gauteng		7 317 567	1 879 848	9 197 415
Mpumalanga		5 504 396	1 242 270	6 746 666
Northern Province		2 314 550	288 271	2 602 821
North West		-	-	-
Grand Total	265 318 579	185 905 521	35 665 539	486 889 640

Road Authorities

Table 2.1.4 National toll roads: Net assets (thousand rand)										
Toll Road	Financial year ending 31 March									
	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996
Tsitsikamma	74 248	75 060	75 285	74 782	75 433	73 521	73 589	73 442	73 136	70 580
Mariannhill	113 082	116 747	115 964	112 871	112 451	115 768	119 529	118 437	117 517	113 689
Kranskop	57 857	60 531	60 319	57 781	57 500	57 103	57 259	58 832	62 168	69 884
Huguenot tunnel	245 187	229 493	235 320	230 132	207 493	222 453	221 427	233 918	260 232	274 193
South Coast	-	-	-	-	122 255	187 015	215 738	261 918	273 098	270 848
Magalies	-	-	-	-	34 114	43 755	68 567	76 919	76 522	73 474
North Coast	-	-	-	-	284 998	346 052	494 359	590 770	689 714	872 880
Mooi River	-	-	-	-	133 025	129 522	129 570	129 202	128 486	123 985
Tugela	-	-	-	-	202 328	201 297	199 637	199 310	198 667	191 211
Grasmere	-	-	-	-	64 019	66 593	66 158	65 502	64 353	61 729
Vaal	-	-	-	-	215 745	208 950	212 812	214 942	214 588	205 663
Wilge	-	-	-	-	322 721	314 050	323 534	323 216	322 396	312 542
N17	-	-	-	-	410 816	368 510	381 342	396 865	478 498	521 924

South African Roads Board

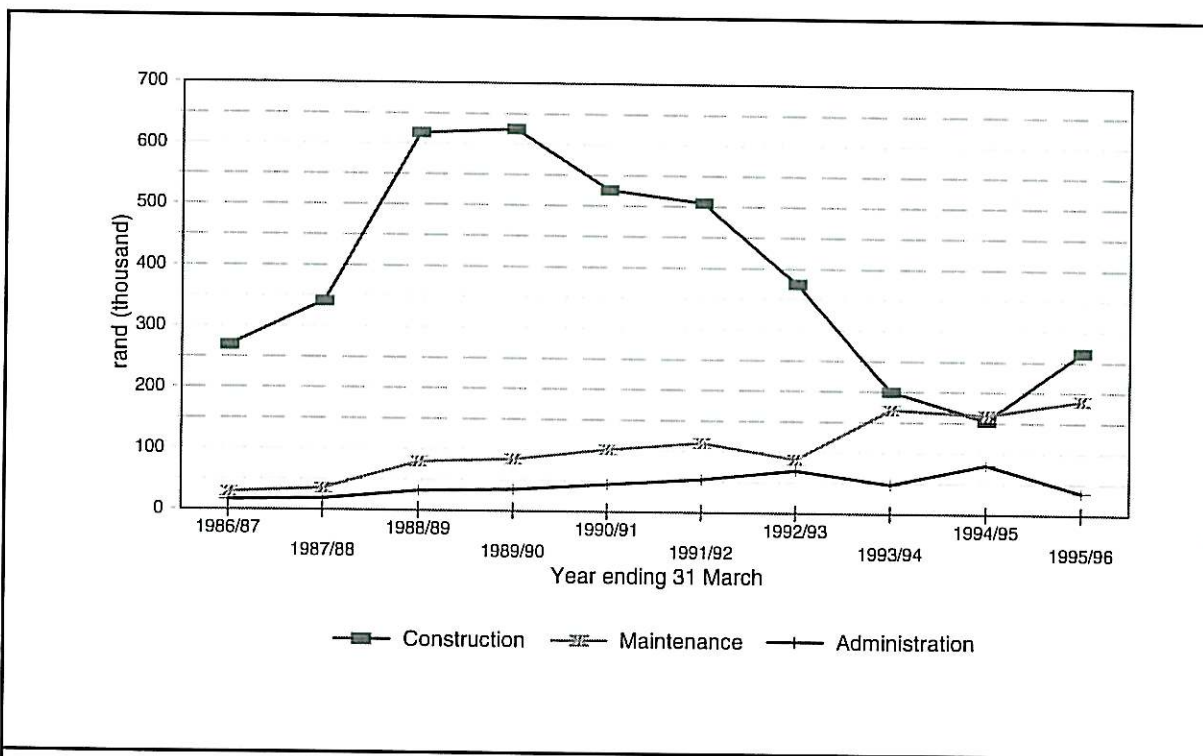


Figure 2.1.1: Total expenditure on national roads by type: March 1996 Rands

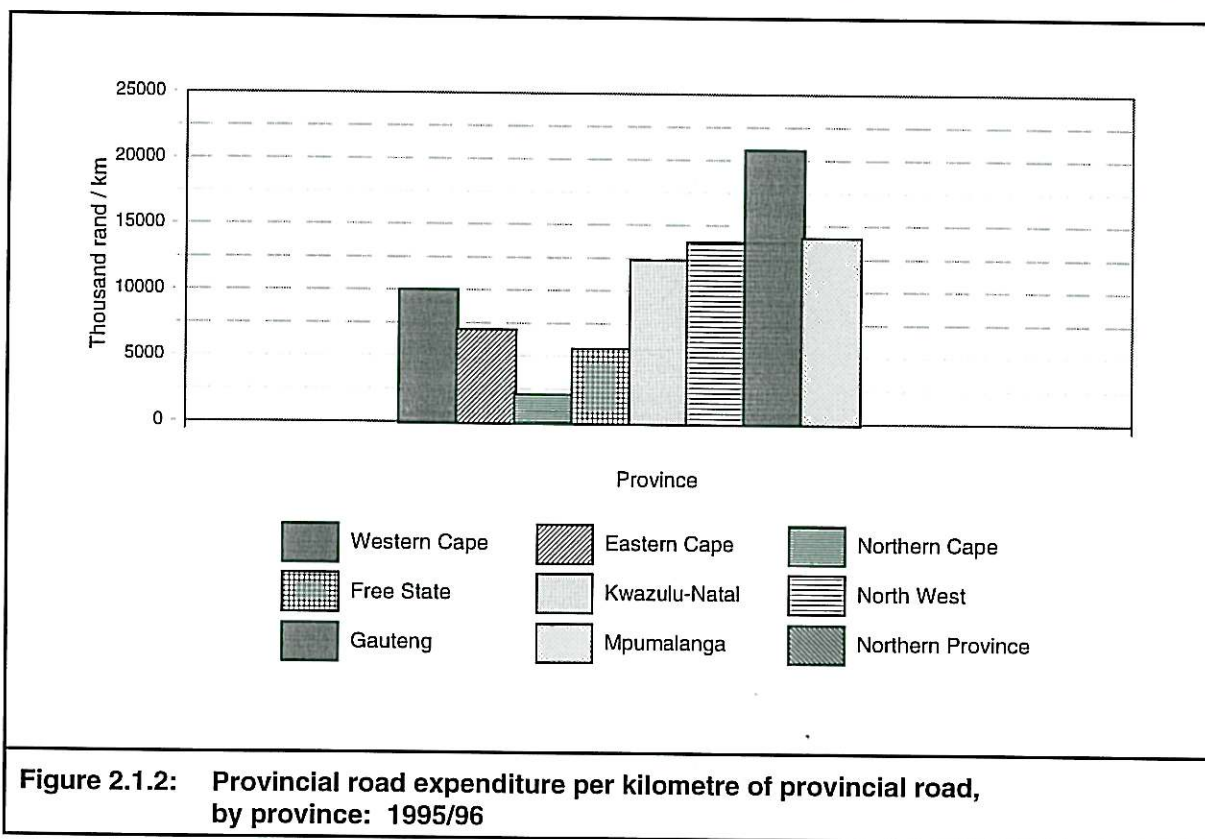
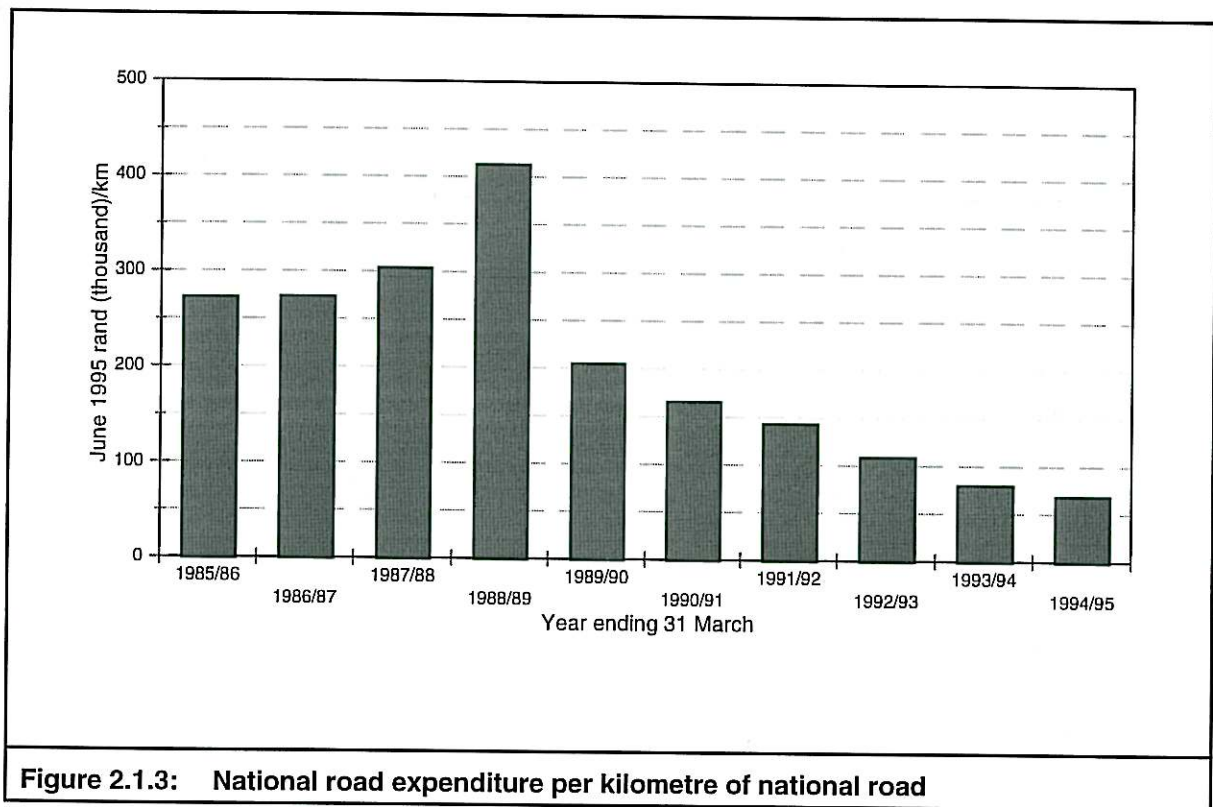


Figure 2.1.2: Provincial road expenditure per kilometre of provincial road, by province: 1995/96



2.2 INFRASTRUCTURE: NETWORK

Table 2.2.1: Provincial road network by province (km)					
31 March 1996					
	Dual-carriageway freeways	Conventional dual-carriageway roads	Single-carriageway paved roads	Gravel roads	Total
Western Cape: Roads Branch	200	-	7 209	31 613	39 022
Eastern Cape: Department of Public Works	-	-	6 930	44 839	51 769
Northern Cape: Department of Transport	-	-	5 016	60 076	65 092
Free State: Department of Public Works and Roads	144	-	7 572	41 505	49 221
KwaZulu-Natal: Department of Transport	90	-	6 155	16 880	23 125
North West: Department of Public Works	92	-	6 678	16 918	23 668
Gauteng: Public Transport and Roads	523	-	2 991	1 500	5 014
Mpumalanga: Department of Public Works, Roads and Transport	41	-	6 718	9 254	16 013
Northern Province: Department of Public Works	..	..	..	..	..

Provincial Departments

Table 2.2.2: National road network by province (km) ^{1,2}

	At 31 March									
	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Cape Province										
Dual-carriageway freeways	194	192	192	313	246	255	255	255	238	238
Single-carriageway paved roads (limited access)	147	406	406	387	506	445	445	445	505	505
Single-carriageway paved roads (unlimited access)	331	227	227	275	1 750	2 068	2 068	1 963	1 873	1 873
Total	672	825	825	975	2 502	2 768	2 768	2 663	2 616	2 616
Natal										
Dual-carriageway freeways	276	302	302	354	354	374	374	347	425	425
Single-carriageway paved roads (limited access)	171	171	171	171	171	171	311	311	55	55
Single-carriageway paved roads (unlimited access)	..	23	23	23	379	320	320	260	526	526
Total	447	496	496	548	904	865	1 005	918	1 006	1 006
Transvaal										
Dual-carriageway freeways	442	496	496	496	623	638	655	655	655	655
Single-carriageway paved roads (limited access)	..	24	24	63	95	95	95	95	95	95
Single-carriageway paved roads (unlimited access)	341	334	334	550	850	850	875	875	855	855
Total	783	854	854	1 109	1 568	1 583	1 625	1 625	1 605	1 605
Orange Free State										
Dual-carriageway freeways	52	52	52	52	52	193	193	62	62	62
Single-carriageway paved roads (limited access)	268	319	319	319	460	317	317	456	456	456
Single-carriageway paved roads (unlimited access)	323	268	268	365	548	413	413	387	386	386
Total	643	639	639	736	1 060	923	923	905	904	904
Grand total - all provinces										
Dual-carriageway freeways	964	1 042	1 042	1 215	1 275	1 460	1 477	1 319	1 380	1 380
Single-carriageway paved roads (limited access)	586	869	869	986	1 232	1 028	1 168	1 307	1 111	1 111
Single-carriageway paved roads (unlimited access)	995	903	903	1 167	3 527	3 651	3 676	3 485	3 640	3 640
Total	2 545	2 814	2 814	3 368	6 034³	6 139	6 321	6 111	6 131	6 131

South African Roads Board

¹ The national road network is still subdivided into the former provinces.² Changes to distances are the result of reclassification and appropriation of roads to new definitions.³ The substantial increase in the total national road network system is due to the take-over of roads previously classified as provincial roads.

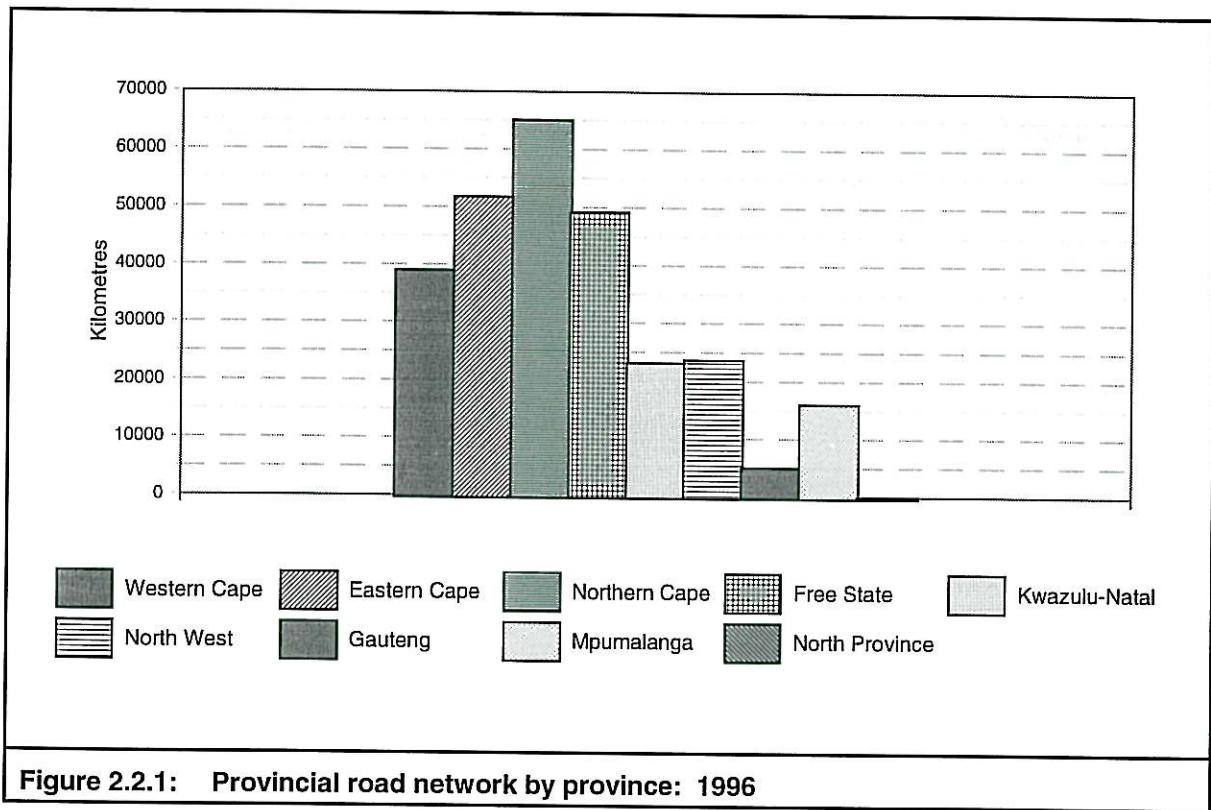
At 31 March	National roads			
	Total	Paved		Unpaved
		Bitumen	Concrete	
1985	2 913	2 481	389	43
1986	3 022	2 590	389	43
1987	3 164	2 708	412	44
1988	7 294	6 704	526	64
1989	7 248	6 678	565	5
1990	6 750	6 143	565	42
1991	7 591	6 950	608	33
1992 ²	7 501	6 860	608	33
1993	7 427	6 789	608	30
1994	7 783	7 079	674	30
1995	7 783	7 079	674	30
1996	7 795	7 091	674	30

South African Roads Board

¹ Lengths are in carriageway kilometres.² From 1992, special roads and roads under construction are excluded.

Road authority	Paved roads	Engineered earth or gravel roads	Total
National roads	6 131	30	6 161
Provincial roads	50 923	125 363	176 286
Municipal roads (1992 estimate)	..	..	47 210
Urban developing areas (1993 estimate)	3 473	34 435	37 908
Rural developing areas (1993 estimate)	-	221 092	221 092

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2.3 VEHICLE STATISTICS

Table 2.3.1: Motor vehicle population of South Africa											
30 June	Cars	Mini-buses	Commercial vehicles	Buses	Subtotal	Motor-cycles	Tractors	Trailers ¹	Caravans	Other ²	Total
Licensed											
1985	2 947 501	120 041	1 042 291	24 209	4 134 042	318 712	306 879	405 320	131 369	51 640	5 347 962
1986	3 077 067	129 065	1 086 559	24 813	4 317 504	330 200	237 898	384 016	138 195	52 602	5 460 415
1987	3 114 649	136 834	1 100 711	25 602	4 377 796	320 627	233 514	404 100	137 775	51 907	5 525 719
1988	3 147 699	145 967	1 106 953	25 950	4 426 569	317	234 015	415 759	135 779	51 826	5 581 202
1989	3 288 545	173 860	1 168 305	25 639	4 656 349	254	178 955	456 403	141 111	47 457	5 780 329
1990	3 375 277	189 455	1 207 088	25 725	4 797 545	300 054	181 654	488 403	142 388	47 621	5 952 528
1991	3 461 395	201 545	1 241 828	26 310	4 931 078	294 917	183 686	516 829	142 952	47 907	6 112 699
1992	3 488 570	209 891	1 267 766	25 994	4 992 221	290 247	181 640	530 776	143 824	48 848	6 178 581
Exempted from licensing ³											
1985	23 950	5 084	80 521	3 959	113 514	3 252	3 723	31 468	5 067	10 295	167 319
1986	24 793	6 256	77 841	3 396	112 286	3 241	3 406	28 457	3 905	10 218	161 513
1987	28 257	7 033	85 838	4 308	125 436	3 366	4 903	36 448	5 160	12 708	188 021
1988	22 853	5 878	83 572	3 145	115 448	3 109	3 036	35 293	4 588	10 395	171 869
1989	28 161	7 606	83 799	2 361	121 927	3 197	3 455	25 760	3 910	22 260	180 509
1990	28 328	6 788	66 169	2 382	103 667	4 024	3 917	26 355	4 374	50 435	192 772
1991	28 552	6 711	62 167	2 235	99 665	3 759	3 664	15 655	3 023	39 373	165 139
1992	33 559	7 146	70 971	2 360	114 036	3 762	2 683	15 208	2 406	22 929	161 024
Total											
1985	2 971 451	125 125	1 122 812	28 168	4 247 556	321 964	310 602	436 788	136 436	61 935	5 515 281
1986	3 101 860	135 321	1 164 400	28 209	4 429 790	333 441	241 304	412 473	142 100	62 820	5 621 928
1987	3 142 906	143 867	1 186 549	29 910	4 503 232	323 993	238 417	440 548	142 935	64 615	5 713 740
1988	3 170 552	151 845	1 190 525	29 095	4 542 017	320 363	237 051	451 050	140 367	62 221	5 753 069
1989	3 316 706	181 466	1 252 104	28 000	4 778 276	303 251	182 410	482 163	145 021	69 717	5 960 838
1990	3 403 605	196 243	1 273 257	28 107	4 901 212	298 941	185 571	514 758	146 762	98 056	6 145 300
1991	3 489 947	208 256	1 303 995	28 545	5 030 743	294 006	187 350	532 484	145 975	87 280	6 277 838
1992	3 522 129	217 037	1 338 737	28 354	5 106 257	285 034	184 323	545 984	146 230	71 777	6 339 605

Central Statistical Service

¹ Also includes semi-trailers.² Consists mainly of road construction vehicles and farming equipment other than tractors.³ Most of the vehicles owned by public authorities are exempted from licensing.

30 June		Cars	Minibuses	Commercial vehicles	Buses	Motor-cycles	Total
Cape Province	1990	842 607	36 023	295 774	4 913	76 090	1 255 407
	1991	853 841	37 900	296 186	4 930	73 775	1 266 632
	1992	870 897	41 559	302 234	4 924	69 225	1 288 839
Natal	1990	535 007	30 540	194 705	5 866	49 813	815 931
	1991	550 380	32 220	200 317	5 654	48 559	837 130
	1992	555 265	34 328	205 820	5 493	47 173	848 079
Transvaal	1990	1 811 327	112 234	623 757	13 507	146 061	2 706 886
	1991	1 868 677	120 463	651 677	14 308	145 066	2 800 191
	1992	1 872 105	122 452	662 626	14 208	142 993	2 814 384
Orange Free State	1990	186 336	1 0 658	92 852	1 439	22 953	314 238
	1991	188 497	10 962	93 648	1 418	22 847	317 372
	1992	190 303	11 552	97 086	1 369	21 881	322 191
Total licensed	1990	3 375 277	189 455	1 207 088	25 725	294 917	5 092 462
	1991	3 461 395	201 545	1 241 828	26 310	290 247	5 221 325
	1992	3 488 570	209 891	1 267 766	25 994	281 272	5 273 493

Central Statistical Service

¹ These figures exclude car dealers' stock.

Province	Type of vehicle										Total
	Cars	Mini-buses	Buses	Com-mercial vehicles	Motor-cycles	Tractor		Trailers	Caravans	Other	
						Farming	Other				
W. Cape	597 796	27 396	3 371	175 964	41 539	11 410	2 875	74 680	23 323	4 728	963 082
E. Cape	198 561	9 979	974	74 131	19 294	4 275	1 348	28 248	8 782	1 767	347 359
N. Cape	63 624	3 384	559	44 063	7 391	2 829	861	16 483	3 913	964	144 071
Free State	190 303	11 552	1 369	97 086	21 881	37 905	10 799	58 571	11 196	7 510	448 172
KZ-Natal	555 265	34 328	5 493	205 820	47 173	16 703	8 685	81 108	14 663	11 281	980 519
N. West	140 183	9 064	1 070	71 829	14 712	29 196	1 072	37 040	8 495	5 836	318 497
Gauteng	1 480 167	86 319	8 994	409 362	104 720	9 417	3 381	167 196	57 026	10 038	2 336 620
Mpuma.	160 322	14 950	2 617	103 297	15 871	26 051	1 779	43 900	11 427	4 825	385 039
N. Prov.	97 286	12 474	1 547	83 647	8 232	11 923	1 110	22 567	4 760	1 668	245 214
Total	3 483 507	209 446	25 994	1 265 199	280 813	149 709	31 899	529 793	143 585	48 617	6 168 573

Central Statistical Service

At 30 June		Cars	Minibuses	Commercial vehicles	Buses	Motorcycles	Total
Blacks	1990	293 517 ¹	55 046 ¹	177 450 ¹	2 375 ¹	10 602 ¹	538 990 ¹
	1991	300 007	58 771	182 621	2 561	10 291	554 251
	1992	299 912	60 611	186 344	2 588	9 606	559 061
Whites	1990	2 307 614 ¹	80 658 ¹	569 484 ¹	3 306 ¹	240 231 ¹	3 201 293 ¹
	1991	2 388 337	86 010	592 380	3 603	238 524	3 308 854
	1992	2 396 813	90 319	602 231	3 595	228 607	3 321 565
Coloureds	1990	196 473 ¹	9 620 ¹	45 951 ¹	646 ¹	7 287 ¹	259 977 ¹
	1991	197 781	11 058	48 062	706	7 147	264 754
	1992	212 993	12 489	49 788	755	6 756	282 781
Asians	1990	172 128 ¹	6 162 ¹	39 330 ¹	1 360 ¹	3 185 ¹	222 165 ¹
	1991	178 308	6 363	40 809	1 388	3 157	230 025
	1992	184 218	6 638	42 048	1 388	3 063	237 355
Not applicable¹	1990	405 545 ¹	37 969 ¹	374 873 ¹	18 038 ¹	33 612 ¹	870 037 ¹
	1991	396 962	39 343	377 956	18 052	31 128	863 441
	1992	394 634	39 834	387 355	17 668	33 240	872 731
Total	1990	3 375 277	189 455	1 207 088	25 725	294 917	5 092 462
	1991		201 545	1 241 828	26 310	290 247	5 221 325
	1992	3 461 395	209 891	1 267 766	25 994	281 272	5 273 493
		3 488 570					

Central Statistical Service

¹ Vehicles owned by companies, public corporations, etc.

Year	Cars	Minibuses	Commercial vehicles	Buses	Motorcycles
1985	7,4	6,5	7,3	7,7	5,2
1986	7,8	6,9	7,8	8,9	6,1
1987	8,1	7,0	8,1	9,0	6,8
1988	8,4	7,1	8,4	9,1	7,5
1989	8,7	7,1	8,6	9,6	8,0
1990	9,0	7,3	8,9	10,0	8,7
1991	9,2	7,6	9,2	10,1	9,5
1992	9,6	8,0	9,6	10,7	10,2

Central Statistical Service

Province	Cars	Commercial vehicles
Western Cape	33 700	16 795
Eastern Cape	11 162	7 680
Northern Cape	2 666	2 987
Free State	9 109	7 148
KwaZulu-Natal	28 872	18 461
North West	6 722	5 667
Gauteng	95 941	42 876
Mpumalanga	9 341	8 322
Northern Province	4 650	5 835
TOTAL RSA	202 163	115 771
Other ¹	6 068	8 001
Total	208 231	123 772

NAAMSA

¹ Includes sales in Namibia, Botswana, Lesotho and Swaziland.

Year	Cars and minibuses		Commercial vehicles		Motorcycles	
	Total sales	Average price (R) ¹	Total sales	Average price (R)	Total sales	Average price (R)
1985	192 555	14 952	65 494	17 895	20 847	2 136
1986	182 404	19 207	60 388	21 287	13 240	2 951
1987	219 432	23 440	70 642	27 821	11 151	3 120
1988	252 364	28 156	98 228	33 571	15 477	3 612
1989	250 260	34 309	96 062	41 317	12 857	4 503
1990	217 864	38 835	89 619	44 058	12 756	4 794
1991	201 180	43 598	79 378	47 030	13 585	5 207
1992	180 355	51 978	70 294	55 804	12 703	6 493
1993	204 408	59 413	72 479	64 702	11 065	8 432
1994	211 817	65 052	77 507	76 320	9 685	11 595
1995	270 172	72 407	92 265	94 396	9 459	13 109

Central Statistical Service

¹ The average price of vehicles = total sales of vehicles divided by the cost of the vehicles.

Table 2.3.8: Retail sales of used vehicles

Year	Cars and minibuses		Commercial vehicles		Motorcycles	
	Total sales	Average price (R)	Total sales	Average price (R)	Total sales	Average price (R)
1985	276 371	6 731	32 312	7 893	5 182	1 695
1986	319 162	8 441	34 629	8 688	4 704	2 077
1987	218 372	11 341	36 250	10 690	3 639	2 244
1988	326 296	14 086	38 312	13 875	2 771	2 420
1989	257 972	17 942	33 273	17 813	2 910	2 832
1990	234 280	20 614	33 769	18 210	2 656	3 211
1991	249 390	22 206	35 634	22 317	2 783	3 587
1992	244 374	25 769	35 732	26 595	2 122	3 838
1993	261 860	28 796	39 049	28 983	2 367	5 118
1994	246 611	34 211	39 995	37 031	2 177	6 187
1995	256 200	38 754	42 719	44 366	1 682	7 438

Central Statistical Service

Table 2.3.9: Unit price of new vehicles (1990 rand)³

Year	CPI ¹	Cars and minibuses	Motorcycles	PPI ²	Commercial vehicles and buses
1985	49,1	30 452	4 350	50,3	35 576
1986	58,2	33 002	5 070	60,1	35 419
1987	67,6	34 674	4 615	68,5	40 614
1988	76,2	36 950	4 740	77,5	43 317
1989	87,4	39 255	5 152	89,3	46 268
1990	100,0	38 835	4 794	100,0	44 058
1991	115,3	37 813	4 516	111,4	42 217
1992	131,3	39 587	4 945	120,6	46 272
1993	144,1	41 230	5 851	128,6	50 313
1994	157,0	41 434	7 385	139,2	54 828
1995	170,6	42 443	7 684	152,4	61 940

Central Statistical Service

¹ CPI = Consumer Price Index.² PPI = Production Price Index.³ The unit price of vehicles is the cost of vehicles which is adjusted according to the inflation index.

Table 2.3.10: Unit price of used vehicles (1990 rand)

Year	CPI ¹	Cars and minibuses	Motorcycles	PPI ²	Commercial vehicles and buses
1985	49,1	13 709	3 452	50,3	15 692
1986	58,2	14 503	3 569	60,1	14 456
1987	67,6	16 777	3 320	68,5	15 606
1988	76,2	18 486	3 218	77,5	17 903
1989	87,4	20 529	3 240	89,3	19 947
1990	100,0	20 614	3 211	100,0	18 210
1991	115,3	19 259	3 111	111,4	20 033
1992	131,3	19 626	2 923	120,6	22 052
1993	144,1	19 983	3 552	128,6	22 537
1994	157,0	21 790	3 941	139,2	26 603
1995	170,6	22 716	4 360	152,4	29 116

Central Statistical Service

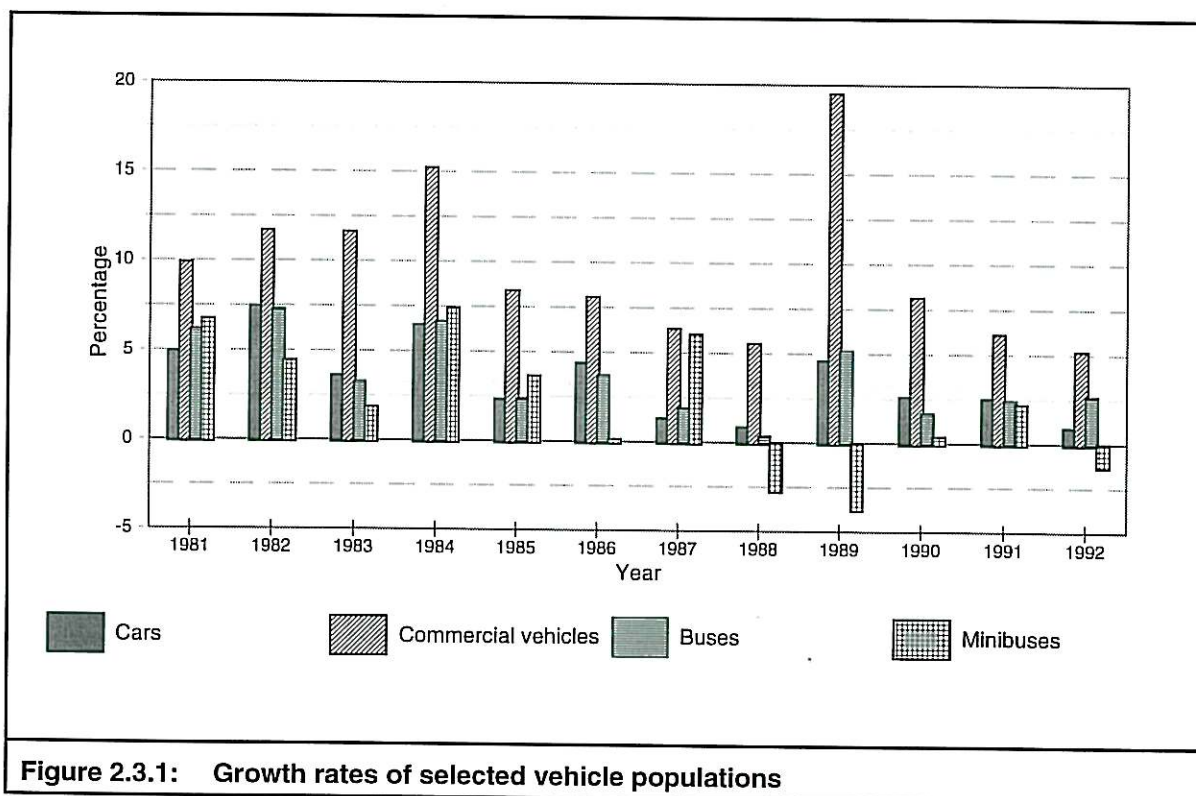
¹ CPI = Consumer Price Index.² PPI = Production Price Index.

Figure 2.3.1: Growth rates of selected vehicle populations

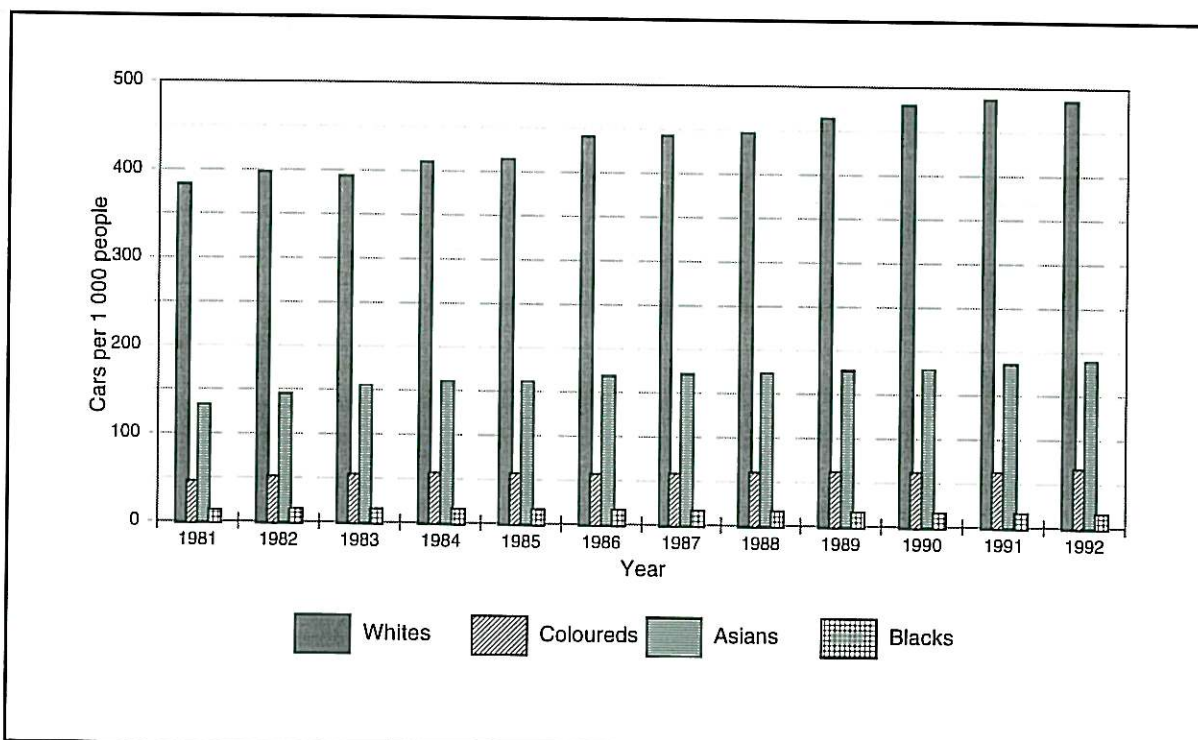


Figure 2.3.2: Passenger vehicles (cars and minibuses) per 1 000 population

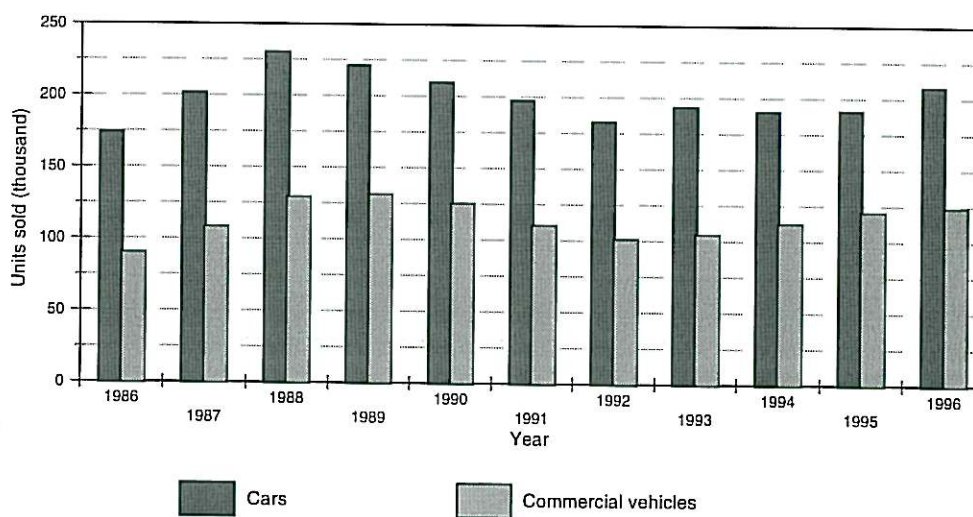


Figure 2.3.3: Retail sales of new cars and commercial vehicles

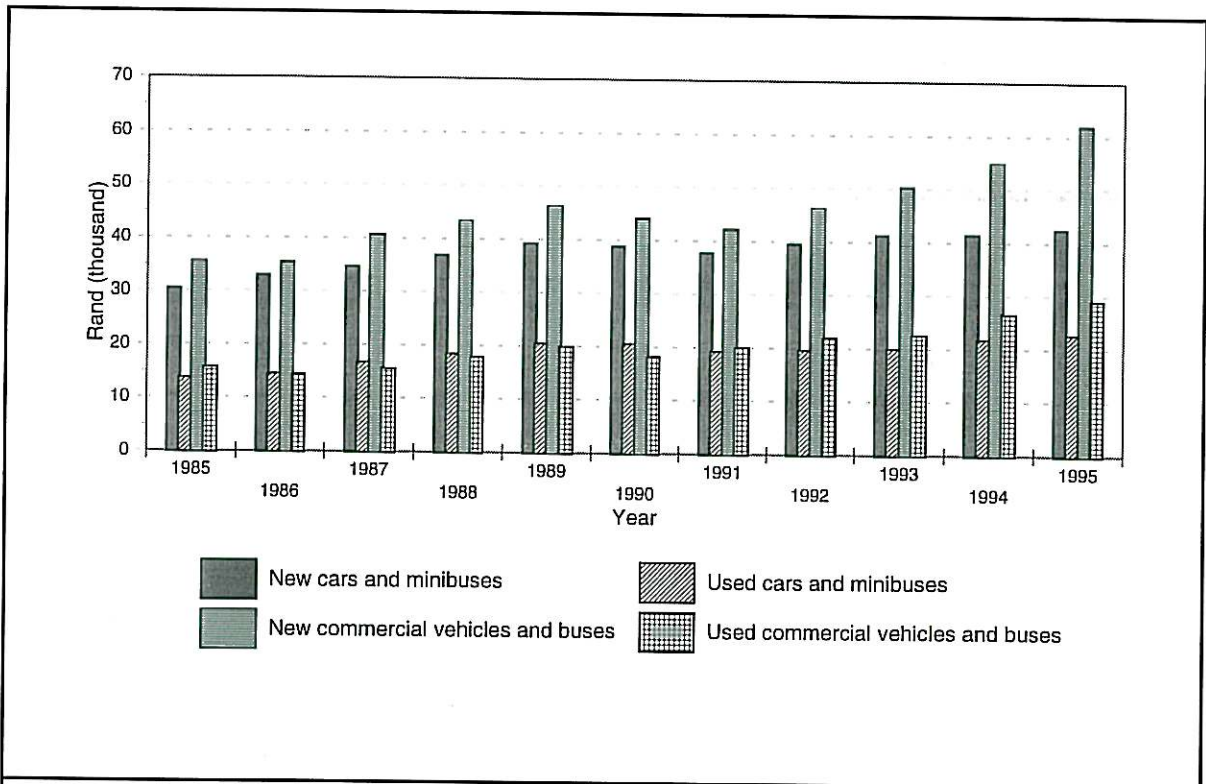


Figure 2.3.4: Unit price of motor vehicles

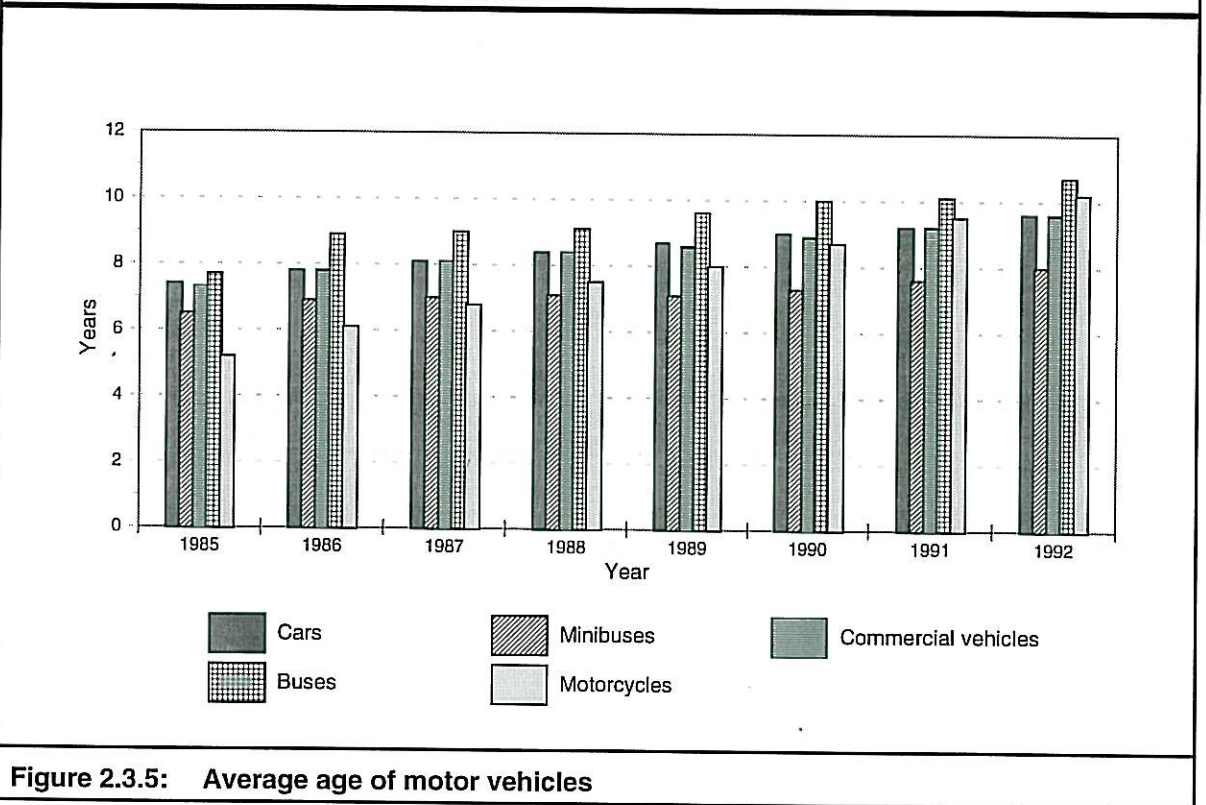


Figure 2.3.5: Average age of motor vehicles

2.4 ROAD TRAFFIC COLLISIONS

Year	Fatal collisions	Serious collisions	Minor collisions	Damage only collisions	Total
1985	7 692	17 034	46 572	297 887	369 185
1986	8 075	17 985	50 855	295 753	372 668
1987	8 433	19 169	53 235	306 314	387 151
1988	9 017	20 411	58 058	330 999	418 485
1989	9 016	20 816	59 383	345 675	434 890
1990	9 174	20 446	59 393	344 274	433 287
1991	9 222	21 711	60 495	353 113	444 541
1992	8 378	20 205	55 221	345 681	429 485
1993	7 936	20 445	56 291	349 357	434 029
1994	8 140	22 594	60 199	377 064	467 997
1995	8 279	23 799	61 505	404 784	498 367

Central Statistical Service

Year	Killed	Seriously injured	Slightly injured	Total casualties
1985	8 972	25 998	67 716	102 686
1986	9 343	27 302	75 565	112 210
1987	9 905	29 282	78 509	117 696
1988	10 691	31 135	85 157	126 983
1989	10 877	32 230	84 281	127 388
1990	11 157	32 343	87 273	130 773
1991	11 069	34 765	90 612	136 446
1992	10 142	32 792	83 470	126 404
1993	9 470	33 555	85 130	128 155
1994	9 981	36 548	91 892	138 421
1995	10 195	39 510	96 350	146 055

Central Statistical Service

Table 2.4.3: Road traffic collisions and casualties by cities, towns and other areas

Year	Total collisions		Killed		Seriously injured		Slightly injured		Total casualties	
	Cities, towns	Other	Cities, towns	Other	Cities, towns	Other	Cities, towns	Other	Cities, towns	Other
1985	317 724	51 461	4 231	4 741	16 184	9 814	49 314	18 402	69 729	32 957
1986	321 891	50 777	4 455	4 888	17 845	9 457	55 343	20 222	77 643	34 567
1987	335 687	51 464	4 942	4 963	19 008	10 276	58 583	19 929	82 533	35 168
1988	365 090	53 394	5 225	5 466	20 642	10 493	64 652	20 505	90 519	36 464
1989	382 278	52 657	5 284	5 593	21 392	10 838	64 801	19 480	91 477	35 911
1990	381 943	51 344	5 493	5 664	21 734	10 609	66 646	20 627	93 873	36 900
1991	391 313	53 288	5 824	5 245	23 868	10 897	68 941	21 671	98 633	37 813
1992	377 621	51 864	5 206	4 936	21 813	10 979	63 387	20 083	90 406	35 998
1993	382 396	51 633	4 823	4 647	22 576	10 979	64 346	20 784	91 745	36 410
1994	413 536	54 496	4 856	5 125	25 251	11 297	69 180	22 712	99 287	39 134

Central Statistical Service

Table 2.4.4: Road traffic casualties by road user group

Year	Drivers						Passengers		Pedestrians	
	Motor vehicles		Motorcycles		Pedal cycles		Killed	Injured ¹	Killed	Injured ¹
	Killed	Injured ¹	Killed	Injured ¹	Killed	Injured ¹				
1985	1 573	18 950	410	10 466	348	4 147	2 571	33 985	4 070	26 166
1986	1 819	33 792	341	8 332	347	4 010	2 477	32 391	4 359	24 342
1987	1 908	35 792	275	7 573	345	4 281	2 654	33 588	4 723	26 562
1988	2 173	40 650	226	6 582	298	4 645	3 044	35 973	4 950	28 442
1989	2 217	40 458	205	5 808	284	4 586	3 053	37 161	5 118	28 498
1990	2 255	39 759	177	5 103	307	4 147	3 433	41 086	4 985	29 521
1991	2 322	41 862	194	4 951	316	4 417	3 340	44 262	4 897	29 885
1992	2 158	36 004	159	4 487	238	4 421	3 142	43 498	4 445	27 852
1993	2 134	36 070	127	4 223	282	4 709	2 812	44 649	4 115	29 304
1994	2 621	48 999	146	4 170	312	5 041	3 168	45 964	4 122	30 417

¹ Seriously and slightly injured persons.

Central Statistical Service

Table 2.4.5: Road traffic casualties by population group

Casualties	Population group	Year									
		1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Killed	Blacks	6 184	6 560	7 121	7 352	7 484	7 486	6 680	6 183	6 600	6 774
	Whites	1 713	1 819	1 906	1 834	1 865	1 979	1 833	1 810	1 785	1 822
	Coloureds	1 207	1 257	1 331	1 387	1 420	1 288	1 218	1 110	1 182	1 275
	Asians	239	269	333	304	388	316	411	367	414	385
Seriously injured	Blacks	15 459	17 128	18 157	18 282	18 977	21 381	19 529	20 599	22 468	25 304
	Whites	7 590	7 853	8 153	8 202	7 996	8 364	7 934	7 846	8 412	8 712
	Coloureds	3 139	3 187	3 560	4 060	4 040	3 595	3 634	3 611	3 848	3 987
	Asians	1 114	1 116	1 265	1 686	1 330	1 425	1 695	1 499	1 820	1 877
Slightly injured	Blacks	31 162	33 865	36 385	35 592	38 141	39 703	36 466	38 648	41 426	45 124
	Whites	29 249	29 633	32 041	30 967	31 243	33 524	29 806	29 480	31 544	31 714
	Coloureds	11 088	11 129	12 215	12 904	13 262	12 664	11 823	11 817	12 938	13 590
	Asians	4 066	3 882	4 516	4 818	4 627	4 721	5 375	5 185	5 984	6 161
Total	Blacks	52 805	57 553	61 663	61 226	64 602	68 570	62 675	65 430	70 494	77 202
	Whites	38 552	39 305	42 100	41 003	41 104	43 867	39 573	39 136	41 741	42 248
	Coloureds	15 434	15 573	17 106	18 351	18 722	17 547	16 675	16 538	17 968	18 852
	Asians	5 419	5 267	6 114	6 808	6 345	6 462	7 481	7 051	8 218	8 423

Central Statistical Service

Table 2.4.6: Road traffic collisions by province (1995)¹

Province	Fatal	Major	Minor	No injury	Total
Western Cape	1 102	2 526	12 863	70 349	86 840
Eastern Cape	591	1 588	4 996	24 491	31 666
Northern Cape	232	562	1 373	5 069	7 236
Free State	698	1 621	3 999	19 764	26 082
KwaZulu-Natal	1 712	3 896	11 745	75 397	92 750
North West	487	806	1 879	10 219	13 391
Gauteng	2 029	9 907	19 652	170 443	202 031
Mpumalanga	911	1 646	3 125	17 003	22 685
Northern Province	517	1 247	1 873	12 049	15 686
Total	8 279	23 799	61 505	404 784	498 367

Central Statistical Service

¹ The former Republics of Transkei, Bophuthatswana, Venda and Ciskei are excluded.

Table 2.4.7: Road traffic casualties by province (1995)¹

Province	Killed	Seriously injured	Slightly injured	Total
Western Cape	1 282	3 920	18 212	23 414
Eastern Cape	718	2 677	7 504	10 899
Northern Cape	321	989	2 501	3 811
Free State	994	2 932	6 926	10 852
KwaZulu-Natal	2 080	6 986	19 029	28 095
North West	622	1 687	3 565	5 874
Gauteng	2 307	14 097	28 784	45 188
Mpumalanga	1 190	3 500	5 978	10 668
Northern Province	681	2 722	3 851	7 254
Total	10 195	39 510	96 350	146 055

*Central Statistical Service*¹ The former Republics of Transkei, Bophuthatswana, Venda and Ciskei are excluded.

Table 2.4.8: Vehicle type involved in road traffic collisions

Year	Cars	Minibuses ¹	Light delivery vehicles	Heavy commercial vehicles	Articulated vehicles	Passenger buses	Motorcycles	Pedal cycles	Other	Total
1985	434 792	28 636	73 489	30 695	4 714	13 947	20 401	8 716	4 169	619 559
1986	437 326	33 624	75 032	31 338	1 808	13 025	18 103	7 380	4 436	622 072
1987	447 724	40 174	80 695	34 433	1 748	13 282	16 103	7 989	4 628	646 776
1988	480 063	47 952	91 201	39 149	1 965	13 678	15 098	8 805	4 768	702 679
1989	519 923	51 010	92 359	38 339	1 991	12 003	13 758	8 688	4 435	742 506
1990	497 062	57 305	99 994	38 568	2 057	11 139	12 234	8 036	4 899	731 294
1991	505 343	61 006	104 496	38 570	2 097	10 627	11 321	8 298	7 466	749 224
1992	480 111	60 512	102 468	36 036	2 006	9 796	10 618	8 138	9 812	719 497
1993	479 691	60 102	105 728	36 684	1 992	9 139	10 307	8 843	21 701	734 187
1994	518 536	63 181	117 132	40 419	2 088	9 493	9 736	9 135	15 757	785 477
1995	549 894	67 358	128 933	43 899	2 335	10 394	9 811	8 421	19 180	840 225

Central Statistical Service

¹ Includes minibuses-taxis.

Table 2.4.9: Road traffic casualties by age group ¹

Age group	1988	1989	1990	1991	1992	1993	1994
Drivers of motor vehicles killed							
0 - 5	0	5	1	0	0	0	0
6 - 12	0	6	3	0	1	1	2
13 - 17	35	30	45	26	16	19	15
18 - 24	451	432	509	499	445	427	512
25 - 39	1 150	1 187	1 120	1 204	1 030	1 046	1 128
40 - 59	632	640	608	644	698	634	685
60+	131	122	146	143	127	134	124
Total	2 399	2 422	2 432	2 516	2 317	2 261	2 387
Drivers of motor vehicles injured							
0 - 5	4	64	14	0	2	1	5
6 - 12	17	109	49	0	15	16	14
13 - 17	1 051	986	1 060	461	676	647	604
18 - 24	9 878	10 149	10 205	10 494	9 277	9 084	12 754
25 - 39	23 874	21 999	20 444	21 760	18 191	18 162	21 435
40 - 59	10 635	11 074	11 025	11 689	10 491	10 595	12 483
60+	1 773	1 885	2 065	2 409	1 839	1 788	2 274
Total	47 232	46 266	44 862	46 813	40 491	40 293	47 087
Drivers of pedal cycles killed							
0 - 5	1	0	5	4	3	2	2
6 - 12	18	22	27	36	13	8	15
13 - 17	46	39	45	45	18	31	27
18 - 24	55	65	70	61	50	52	72
25 - 39	93	95	92	97	95	95	131
40 - 59	61	49	49	56	45	76	74
60+	24	14	19	17	14	18	10
Total	298	284	307	316	238	282	331
Drivers of pedal cycles injured							
0 - 5	21	20	35	42	12	23	23
6 - 12	437	427	379	388	332	342	414
13 - 17	1 050	1 007	782	752	676	632	616
18 - 24	1 133	1 147	1 046	1 126	1 020	1 078	1 663
25 - 39	1 371	1 339	1 191	1 328	1 466	1 551	1 730
40 - 59	535	544	594	648	795	981	1 027
60+	98	102	120	133	120	102	112
Total	4 645	4 586	4 147	4 417	4 421	4 709	4 967

Table 2.4.9 (continued): Road traffic casualties by age group							
Age group	1988	1989	1990	1991	1992	1993	1994
Passengers killed							
0 - 5	159	181	183	185	119	128	108
6 - 12	130	163	151	183	136	98	99
13 - 17	164	146	191	196	123	87	91
18 - 24	602	663	795	693	546	443	738
25 - 39	1 280	1 122	1 261	1 227	1 234	1 147	1 260
40 - 59	567	649	700	693	782	694	779
60+	142	129	152	163	202	215	242
Total	3 044	3 053	3 433	3 340	3 142	2 812	3 168
Passengers injured							
0 - 5	988	1 050	1 350	1 499	733	743	771
6 - 12	1 513	1 808	2 304	2 533	1 099	1 152	1 167
13 - 17	2 038	2 220	2 388	2 700	1 166	1 074	1 164
18 - 24	9 986	9 917	10 227	10 526	8 217	8 335	10 666
25 - 39	14 559	13 071	14 815	16 618	18 394	18 934	19 731
40 - 59	6 018	7 889	8 499	8 718	10 943	11 323	11 418
60+	871	1 206	1 503	1 668	2 946	3 088	2 992
Total	35 973	37 161	41 086	44 262	43 498	44 649	45 964
Pedestrians killed							
0 - 5	316	294	332	321	249	179	227
6 - 12	474	567	547	504	395	340	366
13 - 17	199	260	284	238	128	114	90
18 - 24	568	688	843	805	554	550	629
25 - 39	1 909	1 847	1 736	1 658	1 605	1 591	1 552
40 - 59	1 144	1 195	987	1 068	1 149	1 031	2 616
60+	340	267	256	303	365	310	306
Total	4 950	5 118	4 985	4 897	4 445	4 115	4 122
Pedestrians injured							
0 - 5	1 637	1 575	1 824	1 924	1 445	1 471	1 483
6 - 12	3 124	3 437	3 537	3 600	2 827	2 908	2 874
13 - 17	1 726	1 929	1 923	1 892	1 071	1 102	1 101
18 - 24	4 601	4 945	5 283	5 294	3 779	3 985	5 355
25 - 39	10 589	8 357	9 040	10 031	10 186	10 444	11 072
40 - 59	5 695	6 962	6 525	5 833	6 742	7 331	7 714
60+	1 070	1 293	1 389	1 311	1 802	1 793	2 010
Total	28 442	28 498	29 521	29 885	27 852	29 034	30 417

Table 2.4.10: Road traffic collision and casualty rates in South Africa											
	Year										
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	
Total motor vehicle km travelled (million)	63 752	79 039	83 525	90 255	95 921	96 067	96 662	97 798
Number of collisions											
Fatal	7 692	8 075	8 433	9 017	9 016	9 174	9 222	8 378	2 936	8 140	
Serious	17 034	17 985	19 169	20 411	20 816	20 446	21 711	20 205	20 945	22 594	
Minor	46 572	50 855	53 235	50 058	59 383	59 393	60 495	55 221	56 291	60 199	
Damage only	297 887	295 753	306 314	330 999	345 675	344 274	353 113	345 681	349 357	377 094	
Total	369 185	372 668	387 151	410 485	434 890	433 287	444 541	429 485	429 529	468 027	
Collisions per 100 million vehicle km											
Fatal	12,1	10,2	10,1	10,0	9,4	9,5	9,5	8,6	..	..
Serious	26,7	22,8	23,0	22,6	21,7	21,3	22,5	20,1	..	..
Minor	73,1	63,3	63,7	64,3	61,9	61,8	62,6	56,5	..	..
Damage only	467,3	374,2	366,7	366,7	360,2	358,4	365,1	365,9	..	..
Total	579,2	470,5	463,5	463,6	453,2	451,0	459,6	451,1	..	..
Number of casualties											
Killed	8 972	9 343	9 905	10 372	10 877	11 157	11 069	10 142	9 470	9 981	
Seriously injured	25 998	27 302	29 282	31 135	32 230	32 343	34 765	32 792	33 555	36 548	
Slightly injured	67 716	75 565	78 509	85 157	84 281	87 273	90 612	83 470	85 130	91 892	
Total	102 686	112 210	117 696	126 664	127 388	130 773	136 446	126 404	128 155	138 421	
Casualties per 100 million vehicle km											
Killed	14,1	11,8	11,9	11,8	11,3	11,6	11,5	10,4	..	..
Seriously injured	40,8	34,5	35,1	34,5	33,6	33,7	36,0	33,5	..	..
Slightly injured	106,2	95,6	94,0	94,4	87,9	90,8	93,9	85,4	..	..
Total	161,1	141,9	141,0	140,7	132,8	136,1	141,4	129,3	..	..

Table 2.4.11: Road traffic collision rates per 100 million vehicle kilometres travelled, per type of vehicle

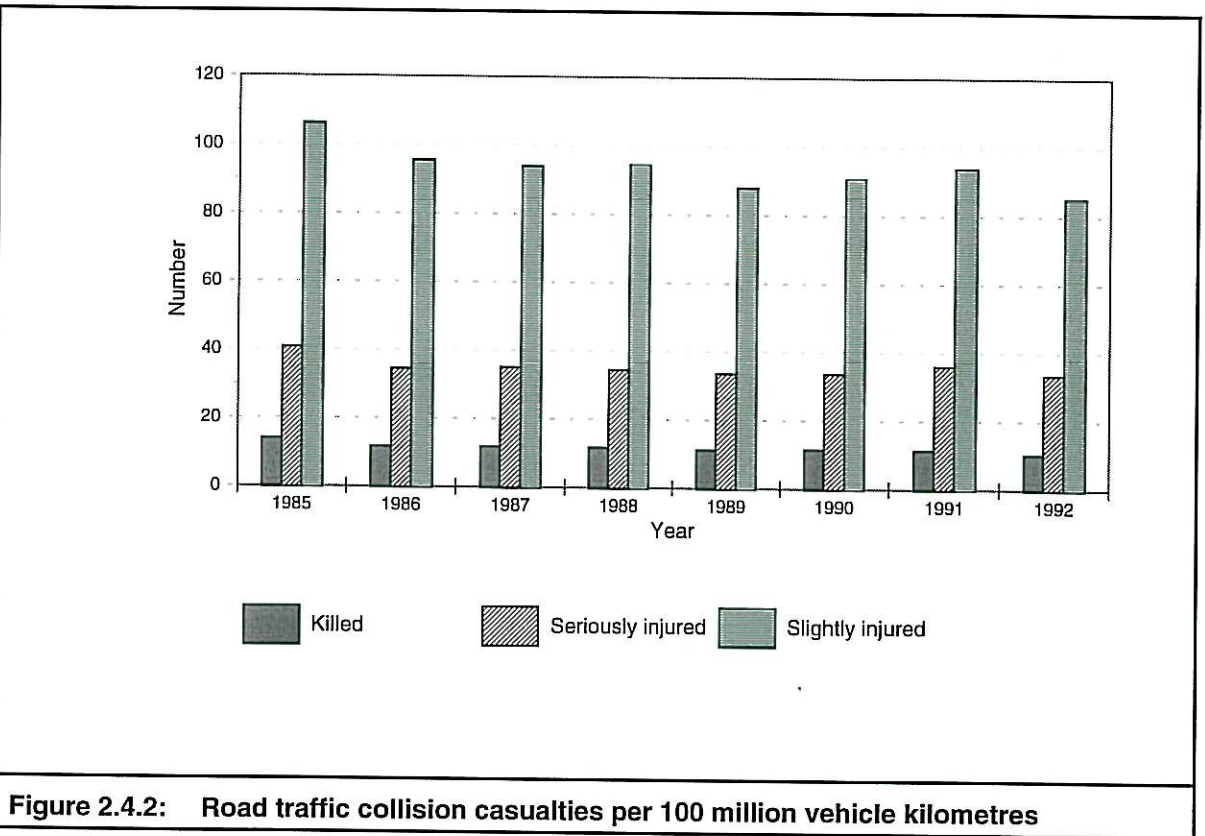
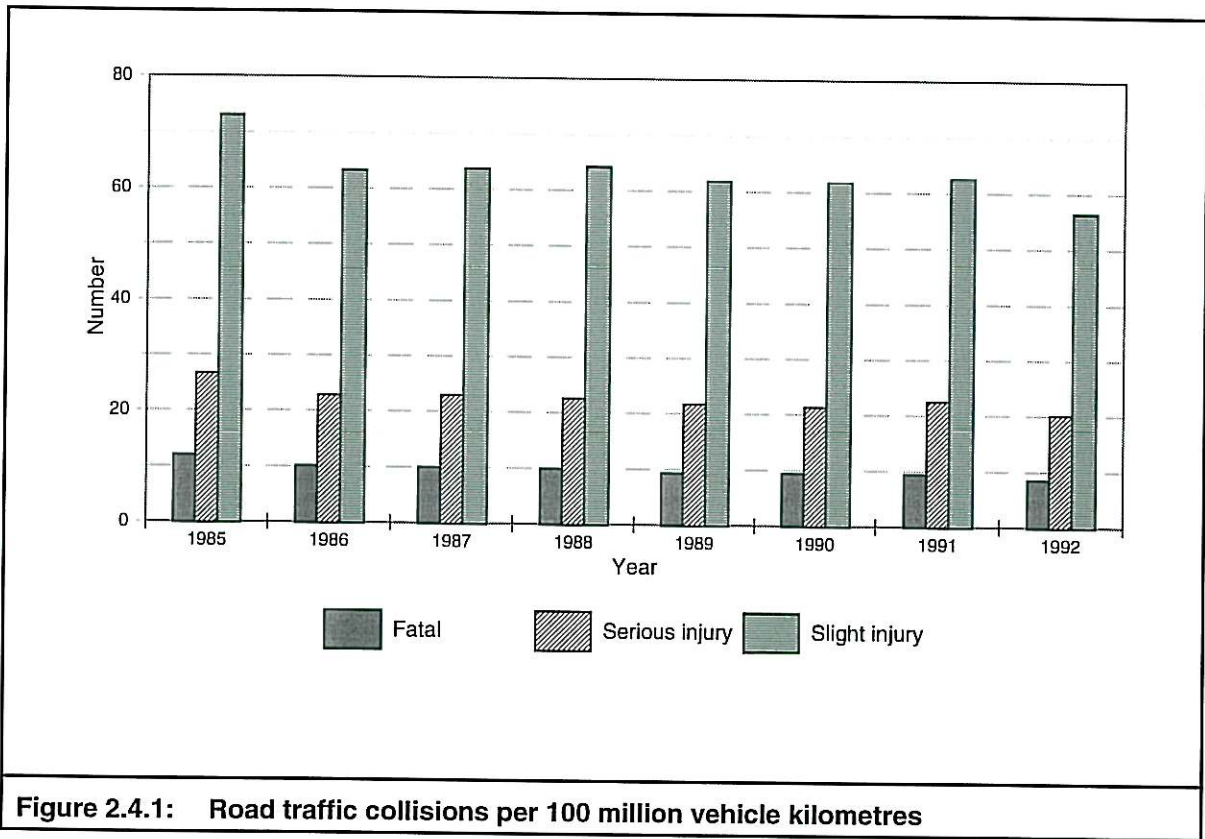
Type of vehicle	1989	1990	1991	1992
Passenger cars				
Million vehicle km travelled	55 102	54 533	52 319	52 426
Collision rate	944	911	966	916
Minibuses				
Million vehicle km travelled	7 602	8 029	6 176	5 470
Collision rate	671	714	988	1 106
Light delivery vehicles				
Million vehicle km travelled	21 658	21 616	25 148	25 857
Collision rate	426	463	416	396
Heavy commercial vehicles				
Million vehicle km travelled	5 820	5 396	7 200	8 867
Collision rate	693	753	565	429
Buses				
Million vehicle km travelled	1 852	1 826	1 845	1 717
Collision rate	648	610	576	571
Motorcycles				
Million vehicle km travelled	2 889	2 800	2 469	2 186
Collision rate	476	437	459	486
Tractors				
Million vehicle km travelled	998	1 868	1 356	1 266
Collision rate	172	95	130	128

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Table 2.4.12: Road traffic collisions at night

	1989	1990	1991	1992
Collisions at night (Percentage)	124 860	122 956	126 141	120 823
	28,7	28,4	28,4	28,1
Rate of deaths per 100 000 population	35,8	36,2	35,7	31,8
Rate of injuries per 100 000 population	385,9	388,4	372,3	364,3
Rate of deaths per 100 000 vehicles	206,6	207,2	200,8	181,8
Rate of injuries per 100 000 vehicles	2 213,3	2 220,9	2 274,6	2 084,0

CSIR



3 Passenger transport

3.1 GENERAL

Table 3.1.1: Workers by mode of travel to place of work (1995)¹			
Mode	Urban %	Non-Urban %	Total %
Western Cape			
Bus	9,5	3,2	8,4
Taxi	20,0	1,9	16,7
Train	7,2	0,3	5,9
Bicycle	2,1	0,7	1,8
Car, motorcycle	37,3	10,8	32,4
Walking	19,8	74,2	29,8
Other	4,2	8,9	6,0
Total	100,0	100,0	100,0
Eastern Cape			
Bus	4,9	7,1	5,8
Taxi	23,0	19,1	21,3
Train	0,9	0,8	0,8
Bicycle	1,2	0,3	0,8
Car, motorcycle	33,7	7,6	22,1
Walking	31,1	54,5	41,5
Other	5,2	10,8	7,6
Total	100,0	100,0	100,0
Northern Cape			
Bus	9,0	3,3	6,6
Taxi	10,2	1,6	6,6
Train	0,2	-	0,1
Bicycle	2,9	2,6	2,7
Car, motorcycle	31,4	12,9	23,6
Walking	42,8	69,7	54,1
Other	3,6	9,6	6,2
Total	100,0	100,0	100,0
Free State			
Bus	5,8	2,7	4,5
Taxi	27,7	1,8	16,1
Train	0,3	0,1	0,3
Bicycle	1,2	0,4	0,8
Car, motorcycle	33,7	8,8	20,3
Walking	28	89,9	55,7
Other	3,3	1,1	2,3
Total	100,0	100,0	100,0
KwaZulu-Natal			
Bus	16,4	22,1	18,8
Taxi	24,0	21,5	22,9
Train	2,5	1,7	2,2
Bicycle	0,9	0,9	0,9
Car, motorcycle	41,1	8,9	27,4
Walking	11,3	37,5	22,4
Other	3,9	7,4	5,4
Total	100,0	100,0	100,0

¹ October household survey

Table 3.1.1 (continued): Workers by mode of travel to place of work (1995) ¹			
Mode	Urban %	Non-Urban %	Total %
North West			
Bus	12,1	20,5	16,5
Taxi	25,9	12,2	18,8
Train	1,9	1,3	1,6
Bicycle	1,9	1,3	1,6
Car, motorcycle	35,4	3,8	18,9
Walking	16,3	56,0	37,98
Other	4,6	4,9	4,75
Total	100,0	100,0	100,0
Gauteng			
Bus	9,0	5,3	8,8
Taxi	28,8	12,4	27,6
Train	6,1	0,4	5,7
Bicycle	0,6	1,7	0,7
Car, motorcycle	39,6	31,7	39,0
Walking	9,1	38,2	11,19
Other	6,7	10,3	7,0
Total	100,0	100,0	100,0
Mpumalanga			
Bus	19,6	21,6	20,7
Taxi	17,0	13,0	14,3
Train	0,3	0,4	0,36
Bicycle	1,1	1,7	1,5
Car, motorcycle	45,2	10,6	21,3
Walking	14,3	47,6	37,3
Other	3,5	5,1	4,6
Total	100,0	100,0	100,0
Northern Province			
Bus	13,7	21,0	19,2
Taxi	19,5	14,4	15,7
Train	0,4	1,6	1,3
Bicycle	0,9	1,8	1,6
Car, motorcycle	31,5	14,6	18,8
Walking	22,0	40,6	36,1
Other	12,0	5,89	8,0
Total	100,0	100,0	100,0

¹ October household survey

Table 3.1.2: Workers by travelling time to place of work (1995)¹			
Time (hours)	Urban %	Non-urban %	Total %
Western Cape			
0-1	96,5	90,6	91,7
1-2	3,3	5,1	5,1
2-3	0,1	0,3	0,3
3-4	0,1	0,1	0,1
4+	1,1	2,9	2,9
Total	100,0	100,0	100,0
Eastern Cape			
0-1	91,8	86,9	89,6
1-2	4,8	6,4	5,5
2-3	0,4	0,5	0,4
3-4	-	0,2	0,1
4+	3,0	6,0	4,3
Total	100,0	100,0	100,0
Northern Cape			
0-1	84,2	87,1	85,5
1-2	2,7	1,5	2,2
2-3	0,4	0,5	0,4
3-4	-	-	-
4+	12,8	10,7	11,9
Total	100,0	100,0	100,0
Free State			
0-1	92,3	94,0	93,0
1-2	4,0	1,6	2,9
2-3	0,4	0,3	0,4
3-4	0,1	-	0,1
4+	3,4	4,2	3,7
Total	100,0	100,0	100,0
KwaZulu-Natal			
0-1	78,1	85,1	82,1
1-2	13,6	8,9	10,9
2-3	1,5	0,5	0,9
3-4	0,2	0,1	0,1
4+	6,7	5,5	6,0
Total	100,0	100,0	100,0

¹ October household survey

Table 3.1.2 (continued): Workers by travelling time to place of work (1995)¹			
Time (hours)	Urban %	Non-urban %	Total %
North West			
0-1	86,9	80,45	83,5
1-2	6,0	6,8	6,4
2-3	0,3	1,8	1,1
3-4	-	0,3	0,2
4+	8,9	10,6	8,9
Total	100,0	100,0	100,0
Gauteng			
0-1	83,3	85,7	83,5
1-2	10,3	7,7	10,2
2-3	1,3	0,8	1,2
3-4	0,1	-	0,1
4+	4,9	5,8	5,0
Total	100,0	100,0	100,0
Mpumalanga			
0-1	75,3	76,3	76,0
1-2	6,5	10,3	9,1
2-3	1,7	3,6	3,2
3-4	0,3	0,6	0,5
4+	16,2	9,11	11,3
Total	100,0	100,0	100,0
Northern Province			
0-1	79,6	69,8	72,2
1-2	3,1	10,2	8,5
2-3	0,4	1,5	1,2
3-4	-	0,2	0,2
4+	16,9	18,3	17,9
Total	100,0	100,0	100,0

¹ October household survey.

NOTE: Tables 3.1.3 to 3.1.7 consist of results obtained by the National Passenger Panel. This Panel carries out surveys of Black, Coloured and Asian commuter patterns and attitudes in major urban areas.

Table 3.1.3: Main transfer by modes used (1994)

Transfer modes	Commuters (%)
Taxi-taxi	40
Bus-bus	10
Train-train	6
Taxi-train	18
Train-taxi	5
Taxi-bus	6
Bus-taxi	5
Train-bus	3
Other ¹	7
Total	100

National Passenger Panel

¹ "Other" refers mostly to use of a car as a feeder or distributor mode.

Table 3.1.4: Main reasons given for the choice of mode (1994)

Reason	Percentage of those choosing as main mode				
	Train	Bus	Taxi	Car	Walk
Only means of transport	9	21	33	13	11
No need to transfer	20	28	20	27	9
Shorter travel time	8	4	29	18	8
Affordable	49	28	8	13	59
Safest way	7	10	4	12	5
Other	7	9	6	17	8
Total	100	100	100	100	100

National Passenger Panel

Unsatisfactory attributes	Percentage of the users of the mode			
	Train	Bus	Taxi	Car
Expensive	4	23	29	41
Lack of safety	28	2	19	7
Long waits	9	19	15	6
Crowding	29	12	15	2
Long walks to boarding point	12	10	8	6
Long travel time	8	20	4	7
Other	10	14	10	31
Total	100	100	100	100

National Passenger Panel

Main mode	Percentage of respondents using main mode			
	Early	On time	Late	Total
Train	49,8	38,7	11,5	100,0
Bus	47,3	41,9	10,8	100,0
Taxi	43,7	42,0	14,3	100,0
Car	49,7	46,0	4,3	100,0
Company	49,6	47,8	2,6	100,0
Other	37,1	60,0	2,9	100,0
Walk	47,4	44,7	7,9	100,0
All modes	46,2	42,6	11,2	100,0

National Passenger Panel

Main mode of transport	Average monthly cost of transport (R)
Train	87
Bus	110
Taxi	124
Car, as driver	192
Car, as passenger	70

National Passenger Panel

3.2 BUS TRANSPORT

Table 3.2.1: Kilometres travelled and passengers carried by operators who report to the Bus Information System (thousand) ¹										
Financial year ending 31 March	Kilometres travelled					Passengers carried				
	Revenue	Empty	Dead	Hire	Total	Cash	Com-muters	Scholars	Other	Total
All Bus Information System operators										
1988/89	445 600	43 472	15 244	..	504 316	..	..	..	..	733 540
1989/90	429 841	42 884	16 748	..	489 473	..	..	..	..	659 048
1990/91	388 345	38 523	21 544	..	448 412	..	..	..	..	553 220
1991/92	365 736	38 697	18 645	22 791	445 869	..	274 506	36 549	21 021	514 801
1992/93	342 722	39 011	19 594	20 432	421 759	152 507	262 814	40 925	19 550	475 796
1993/94	327 863	43 003	16 414	22 799	410 079	131 504	238 336	44 966	19 491	434 296
1994/95	328 455	43 137	17 987	25 336	414 915	125 513	227 827	44 013	18 677	416 030
Metropolitan area: Bloemfontein										
1988/89	16 266	..	..	..	16 442	..	..	..	..	15 253
1989/90	16 972	..	..	..	17 816	..	..	..	..	17 214
1990/91	14 791	1 687	153	..	16 631	..	..	..	..	16 768
1991/92	13 146	1 670	205	1 251	16 272	3 132	11 017	392	238	14 778
1992/93	12 769	1 784	61	1 210	15 824	3 597	7 948	595	249	12 388
1993/94	12 088	1 745	55	1 112	14 999	4 041	7 499	560	259	12 360
1994/95	12 234	1 570	40	884	14 728	3 009	7 212	1 114	293	11 629
Metropolitan area: Durban										
1988/89	46 960	3 936	5 321	..	56 216	..	..	..	..	88 177
1989/90	50 784	5 243	5 775	..	61 802	..	..	..	..	78 107
1990/91	47 022	4 320	5 655	..	56 997	..	..	..	..	63 430
1991/92	46 413	4 872	6 660	1 792	59 783	24 754	27 960	5 192	3 725	61 632
1992/93	41 416	4 921	6 484	1 611	54 432	21 951	29 329	5 264	4 301	60 845
1993/94	36 088	2 685	6 260	1 679	47 712	18 306	22 575	5 115	3 817	49 813
1994/95	35 163	4 099	5 909	1 620	46 791	18 837	22 306	3 011	3 457	47 611
Metropolitan area: Johannesburg										
1988/89	36 210	5 616	771	..	42 598	..	..	..	..	83 506
1989/90	35 958	5 380	718	..	42 055	..	..	..	..	79 160
1990/91	38 658	6 255	667	..	45 580	..	..	..	..	80 039
1991/92	36 006	7 422	669	2 428	46 524	16 723	52 804	3 624	6 086	79 219
1992/93	34 394	7 784	706	1 192	44 076	15 065	58 616	4 000	8 039	85 721
1993/94	32 605	9 466	1 024	3 070	46 166	13 445	52 005	4 508	8 787	78 744
1994/95	31 356	10 187	1 146	6 215	48 905	14 101	49 887	4 946	8 816	77 750
Metropolitan area: Pretoria										
1988/89	107 616	11 057	2 829	..	121 501	..	..	..	..	142 241
1989/90	112 521	11 034	3 633	..	127 188	..	..	..	..	138 017
1990/91	107 417	9 717	3 986	..	126 308	..	..	..	..	122 546
1991/92	93 409	10 706	4 631	3 771	112 517	21 171	71 768	13 722	7 106	113 768
1992/93	91 064	10 920	5 201	3 533	110 718	18 758	68 854	14 579	4 487	106 678
1993/94	92 306	14 333	3 065	3 403	113 107	17 996	68 816	16 302	4 243	107 357
1994/95	97 518	12 605	4 120	4 104	118 347	19 267	66 267	16 353	4 247	106 133

¹ Information not available for Cape Town and Port Elizabeth metropolitan areas.

Table 3.2.2: Expenditure and income of operators who report to the Bus Information System (thousand rand) ¹

Financial year ending 31 March	Expenditure			Income						
	Total operating expenditure	Other expenditure	Total	Operating income	Non-operating income	Total own income	Subsidy: DoT	Subsidy: Municipal	Subsidy: Other	Subsidy: Total
All Bus Information System operators										
1988/89	590 201	471 846	1 062 046	638 365	11 330	649 494	..	..	..	438 097
1989/90	725 246	563 265	1 288 511	719 621	26 334	745 955	..	..	..	538 689
1990/91	773 240	612 163	1 385 667	740 350	12 978	753 328	..	..	..	576 914
1991/92	874 640	742 063	1 616 702	823 859	10 390	834 249	600 896	17 897	59 272	678 065
1992/93	940 777	832 178	1 772 955	855 496	19 252	874 749	603 578	19 953	170 726	794 258
1993/94	1 049 500	862 514	1 912 014	892 268	19 153	911 401	651 401	22 375	192 650	866 426
1994/95	1 146 145	930 627	2 076 771	964 664	22 699	987 363	709 188	23 370	249 291	891 849
Metropolitan area: Bloemfontein										
1988/89	16 732	15 173	31 906	18 300	334	18 634	..	..	..	12 497
1989/90	22 538	18 660	41 198	21 544	2 948	24 492	..	..	..	16 212
1990/91	22 989	17 160	40 150	22 284	950	23 233	..	..	..	16 763
1991/92	25 943	20 101	46 044	25 718	532	26 250	17 995	185	2 561	20 741
1992/93	28 958	20 338	49 296	26 753	1 586	28 338	17 681	56	2 617	20 354
1993/94	31 512	22 553	54 065	28 388	1 010	29 398	18 852	135	3 227	22 214
1994/95	36 352	23 480	59 832	27 689	633	28 323	23 206	82	3 720	27 008
Metropolitan area: Durban										
1988/89	76 303	51 745	128 049	71 837	2 989	74 826	..	..	..	59 357
1989/90	103 514	64 303	167 817	80 526	5 102	85 628	..	..	..	76 597
1990/91	111 263	71 768	183 030	86 621	2 311	88 932	..	..	..	82 873
1991/92	132 395	86 125	218 520	104 321	3 535	107 856	79 816	6 763	4	86 583
1992/93	140 836	90 247	231 083	108 481	4 447	112 929	96 413	7 902	5	104 320
1993/94	158 662	79 535	238 197	107 963	4 017	111 980	94 460	8 688	6	103 153
1994/95	157 231	83 824	241 055	110 643	4 384	115 027	91 138	7 833	33	99 004
Metropolitan area: Johannesburg										
1988/89	63 634	44 065	107 699	80 196	807	81 003	..	..	..	29 414
1989/90	79 747	67 394	147 140	94 264	5 242	99 506	..	..	..	44 010
1990/91	106 597	95 476	202 073	111 526	2 221	113 747	..	..	..	67 694
1991/92	123 915	134 008	257 922	126 883	601	127 483	81 777	10 949	2 850	95 577
1992/93	140 993	135 346	276 339	138 413	2 549	140 962	102 039	11 996	2 967	117 002
1993/94	167 104	137 692	304 796	147 373	2 618	149 991	103 779	13 553	3 080	120 411
1994/95	191 091	159 138	350 229	177 245	2 163	179 408	212 26	15 455	3 005	139 585
Metropolitan area: Pretoria										
1988/89	138 684	125 217	263 901	135 465	1 416	136 880	..	..	..	149 854
1989/90	181 795	160 665	342 460	160 612	5 966	166 578	..	..	..	192 264
1990/91	198 820	178 338	377 327	174 669	3 260	177 929	..	..	..	218 591
1991/92	229 565	221 481	451 046	186 929	1 416	188 344	212 878	-	35 318	248 196
1992/93	243 553	270 703	514 256	199 573	3 015	202 588	216 880	-	76 027	292 907
1993/94	282 149	292 415	574 564	213 455	3 186	216 621	238 772	-	75 675	314 447
1994/95	307 153	297 507	604 660	230 098	4 466	234 564	249 665	-	96 249	345 914

¹ Information not available for Cape Town and Port Elizabeth metropolitan areas.

Table 3.2.3: Operating statistics of operators who report to the Bus Information System ¹

Financial year ending 31 March	Operating statistics			Accidents		
	Total personnel	Buses owned	Number of bus trips	Minor	Major	Number of fatalities
All Bus Information System operators						
1988/89	24 390	8 509	..	17 139	2 907	147
1989/90	24 585	8 537	..	13 863	1 332	94
1990/91	22 818	7 968	..	9 872	1 645	101
1991/92	22 348	7 893	14 890 205	7 551	1 531	180
1992/93	21 540	7 669	14 468 313	7 408	1 367	106
1993/94	20 774	7 648	14 045 085	7 295	1 046	167
1994/95	20 491	7 619	13 368 379	6 879	855	105
Metropolitan area: Bloemfontein						
1988/89	799	265	..	364	15	5
1989/90	896	291	..	392	23	0
1990/91	740	248	..	237	16	0
1991/92	751	263	..	229	20	5
1992/93	743	267	352 595	207	7	1
1993/94	708	249	321 860	211	7	3
1994/95	621	225	199 503	187	22	0
Metropolitan area: Durban						
1988/89	2 812	1 111	..	2 642	162	19
1989/90	2 874	1 139	..	2 744	289	8
1990/91	2 727	1 121	..	2 424	214	23
1991/92	2 698	1 054	1 968 373	2 266	361	27
1992/93	2 557	1 001	2 048 780	1 979	291	29
1993/94	2 302	974	2 080 625	1 677	316	64
1994/95	2 176	959	1 991 539	1 680	293	17
Metropolitan area: Johannesburg						
1988/89	2 611	1 008	..	1 777	182	0
1989/90	2 918	1 064	..	1 724	126	4
1990/91	3 537	1 306	..	1 619	167	9
1991/92	3 699	1 438	1 719 780	1 657	212	26
1992/93	3 605	1 433	1 573 771	1 557	195	6
1993/94	3 454	1 381	1 532 685	1 138	153	10
1994/95	3 536	1 435	1 588 839	1 000	146	10
Metropolitan area: Pretoria						
1988/89	5 389	1 994	..	1 708	332	21
1989/90	5 704	2 018	..	1 827	284	5
1990/91	5 716	1 997	..	2 124	491	10
1991/92	5 407	1 919	2 962 936	1 334	212	48
1992/93	5 370	1 850	3 037 502	1 202	320	6
1993/94	5 455	1 847	3 675 821	1 478	95	45
1994/95	5 467	1 845	3 657 847	1 243	67	26

¹ Information not available for Cape Town and Port Elizabeth metropolitan areas.

Table 3.2.4: National Bus Subsidy Information

	Financial year ending 31 March			
	1991/92	1992/93	1993/94	1994/95
Subsidy ¹ (rand)	600 895 946	603 578 304	651 401 096	709 188 280
Total operating income (rand)	823 859 019	855 496 325	892 267 749	964 663 530
Total income ² (rand)	1 512 314 569	1 669 006 535	1 777 826 898	1 969 212 457
Average subsidy per passenger trip (rand) ^{1,3}	1,93	1,99	2,30	2,61
Average operating income per passenger trip ⁴ (rand)	1,60	1,80	2,05	2,32
Average income per passenger trip ^{2,4} (rand)	2,94	3,51	4,09	4,73
Subsidy per income kilometre ¹ (rand)				
Operating income per income kilometre (rand)	1,64	1,76	1,99	2,16
Total income per income kilometre ² (rand)	2,25	2,50	2,72	2,94
	4,13	4,87	5,42	6,00
Number of bus trips	14 890 205	14 468 313	14 045 085	13 368 397
Average distance per trip (km)	29,94	29,15	29,26	31,04

Department of Transport

¹ Only includes subsidies paid by the Department of Transport.² All income including non-operating income and other subsidies.³ Only commuters and scholars.⁴ All passengers.**Table 3.2.5: Transportation of passengers by Transnet by road**

	Year ending 31 March			
	1991/92	1992/93	1993/94	1994/95
Passengers carried (thousand)	3 541	3 086	2 987	2 829
Turnover (thousand rand)	..	..	174 258	172 700
Average income per passenger (rand)	..	..	51,85	61,07

Transnet

Table 3.2.6: Transportation of passengers by Transnet by road: Financial year ending 31 March 1995

Business unit	Fleet size	Number of employees	Market share	Distance travelled	Number
Tours Express	41	54	10%	2 786 465	178 613
Transtate	198	482	17%	25 889 306	2 010 000
Translux	59	259	54%	14 340 176	640 000
Corporate Office	-	88	-	-	-
Total	298	883	40%¹	43 015 947	2 828 613

Transnet

1- see Table 4.1.6

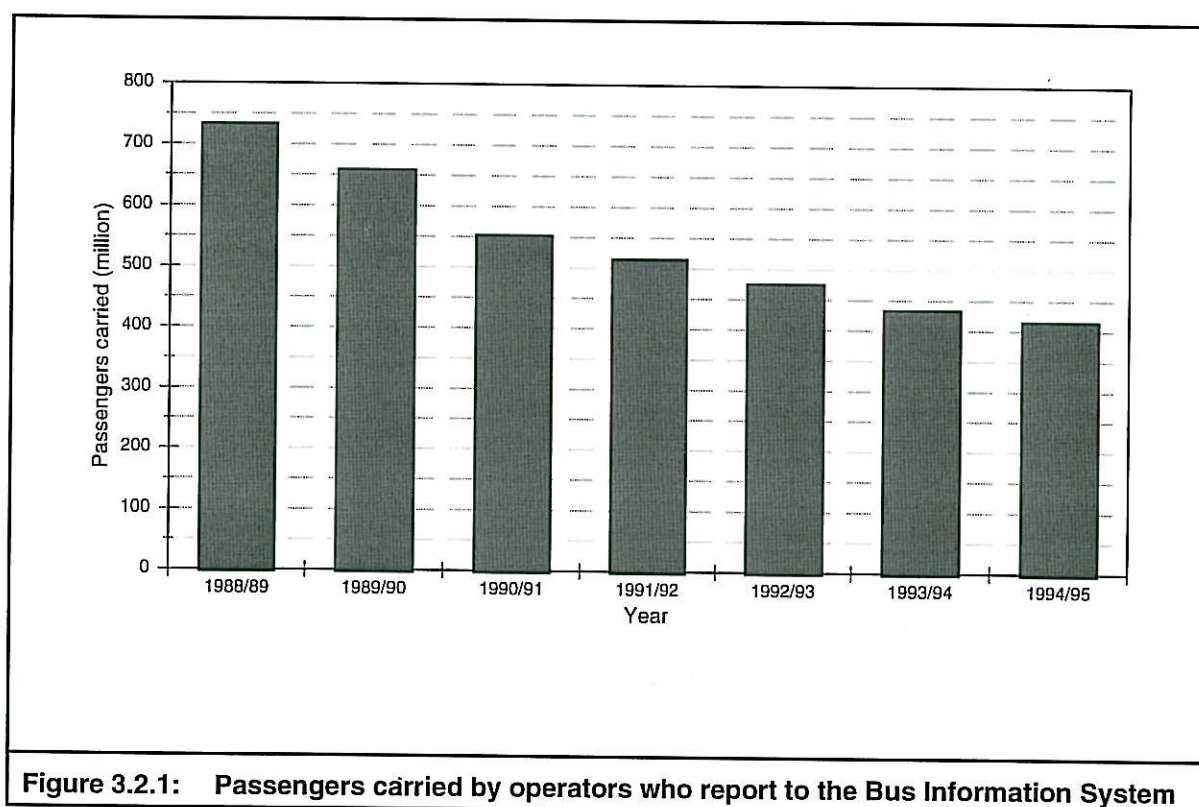


Figure 3.2.1: Passengers carried by operators who report to the Bus Information System

3.3 RAIL TRANSPORT

NOTE: SARCC is the abbreviation for the South African Rail Commuter Corporation.

Table 3.3.1: Passenger journeys : Metro Rail Services

Financial year ending 31 March	1st Class	3rd Class	Total
1980/81	124 277 492	556 791 429	681 068 921
1981/82	123 806 831	583 729 629	707 536 460
1982/83	112 315 338	569 938 195	682 253 533
1983/84	104 195 965	578 598 307	682 794 272
1984/85	96 503 514	565 656 341	662 159 855
1985/86	89 826 391	548 440 793	638 267 184
1986/87	75 918 186	522 686 438	598 604 624
1987/88	63 407 068	506 380 296	569 787 364
1988/89	63 437 928	510 637 789	574 075 717
1989/90	62 753 424	484 839 680	547 593 104
1990/91	64 875 001	459 342 534	524 217 535
1991/92	61 470 228	406 855 390	468 325 618
1992/93	49 824 660	348 594 783	398 419 443
1993/94	40 280 400	363 249 416	403 529 816
1994/95	35 542 544	377 972 135	413 514 679
1995/96	33 663 110	409 075 572	442 738 682

SARCC

Table 3.3.2: Public passenger transport market share: Rail as percentage of total market

City	1990	1991	1992	1993	1994	1995
Johannesburg	30	18	11	18	22	..
Pretoria	28	28	35	36	38	..
Durban	9	8	7	4	6	..
Cape Town	17	46	44	56	58	..

SARCC

Table 3.3.3: Employment in the SARCC and its operational entities								
Population group	1993		1994		1995		1996	
	Number	%	Number	%	Number	%	Number	%
SARCC								
Black	13	17,3	11	25,6	11	28,9	11	26,2
White	57	76,0	27	62,8	21	55,3	23	54,8
Coloured	2	2,7	3	7,0	3	7,9	4	9,5
Asian	3	4,0	2	4,6	3	7,9	4	9,5
Total	75	100	43	100	38	100	42	100
INTERSITE								
Black	5	10,9	9	16,1	11	19,6	28	35,0
White	32	69,6	28	50,0	23	41,1	21	26,2
Coloured	3	6,5	8	14,3	8	14,3	13	16,3
Asian	6	13,0	11	19,6	14	25	18	22,5
Total	46	100	56	100	56	100	80	100
METRO								
Black	5 999	55,8	5 944	55,5	5 916	55,4	5 765	55,7
White	3 312	30,8	3 336	31,1	3 296	30,9	3 183	30,7
Coloured	1 243	11,6	1 227	11,4	1 234	11,7	1 184	11,4
Asian	193	1,8	209	2,0	226	2,0	225	2,2
Total	10 747	100	10 716	100	10 672	100	10 357	100

SARCC

Table 3.3.4: Comparative cost coverage				
	Financial year ending 31 March			
	1992/93 (%)	1993/94 (%)	1994/95 (%)	1995/96 (%)
Total revenue over total expenditure	27	29	29	31
Total revenue over total attributable expenditure	35	35	35	35
Total revenue over attributable expenditure plus pension fund shortfall	31	32	32	34
Fare revenue over attributable expenditure	26	26	25	26

SARCC

Table 3.3.5: SARCC financial overview (million rand)				
	Financial year ending 31 March			
	1992/93	1993/94	1994/95	1995/96
Revenue				
Fare revenue	309	330	353	415
Infrastructure assets rental	68	65	78	76
Revenue from property portfolio	30	35	46	60
Sundry income	-	25	12	5
Total	407	455	489	556
Expenditure				
Attributable expenditure ¹	1 170	1 286	1 410	1600
Non-attributable expenditure ¹	345	300	250	173
Total	1 515	1 586	1 660	1 773
Deficit before State subsidy	(1 108)	(1 131)	(1 171)	(1 217)
State subsidy	1 180	1 196	1 254	1369
Operating subsidy	979	1 052	1 124	1 231
Finance cost subsidy	201	144	130	138
Extraordinary item	50	26	10	3
(Shortfall) or surplus	122	91	93	155

SARCC

¹ Spoomet Pension Fund shortfall and finance cost.

Table 3.3.6: Financial analysis of SARCC regions (1994/95)

	Attributable expenditure ¹ (million rand)	Share of total %	Total revenue ² (million rand)	Share of total %	Percentage of shortfall (subsidy) (%)	Percentage of passenger trips (%)	Percentage of passenger kilometres (%)
Western Cape	370,8	25,6	128,6	31,0	22,6	28,6	23,2
Total: Gauteng	778,5	53,7	217,2	52,3	55,7	52,3	58,2
Pretoria	185,7	12,8	67,6	16,3	13,3	16,9	23,3
WWR	592,8	40,9	149,6	36,0	42,4	35,4	34,9
Durban	278,9	19,2	63,5	15,3	19,3	17,6	17,3
Total: Eastern Cape	22,8	1,5	5,8	1,4	2,4	1,5	1,3
Port Elizabeth	8,9	0,6	2,4	0,6	0,6	0,6	0,4
East London	13,9	0,9	3,4	0,8	1,8	0,9	0,9
Total: RSA	1 451	100,0	415,1	100,0	100,0	100,0	100,0

SARCC

¹ Expenditure = Attributable expenditure including head office cost and depreciation which are proportionally allocated to each region.

² Revenue includes fare revenue as well as a proportional allocation of property development, rental and sundry income.

Table 3.3.7: Subsidy statistics

	Financial year ending 31 March			
	1992/93	1993/94	1994/95	1995/96
Operating subsidy per passenger trip (rand)	2,46	2,61	2,71	2,78
Annual operating subsidy per weekday passenger (rand)	995	1 052	1 113	1 671
Operating subsidy per passenger kilometre (rand)	0,11	0,13	0,13	0,14

SARCC

Table 3.3.8: Passenger fatalities and injuries due to political violence and other criminal activities on commuter trains

	Financial year ending 31 March			
	1992/93	1993/94	1994/95	1995/96 ¹
Fatalities	238	234	91	238
Injuries	429	564	553	300

SARCC

¹ Estimates for 1995/96

Table 3.3.9: Long-distance passenger journeys by train

	Financial year ending 31 March						
	1988/89	1989/90	1990/91	1991/92	1992/93 ¹	1993/94	1994/95
Number of passenger journeys (x 1 000)	8 545	4 671	3 510	2 843	2 850	1 788	1 771
Number of train accidents	211	243	209	231	203	..	..
Number of persons killed	4	-	7	1	3	..	..
Number of persons injured	13	4	11	1	6	..	..

¹ Period 1 April 1992 - 31 December 1992.

Transnet

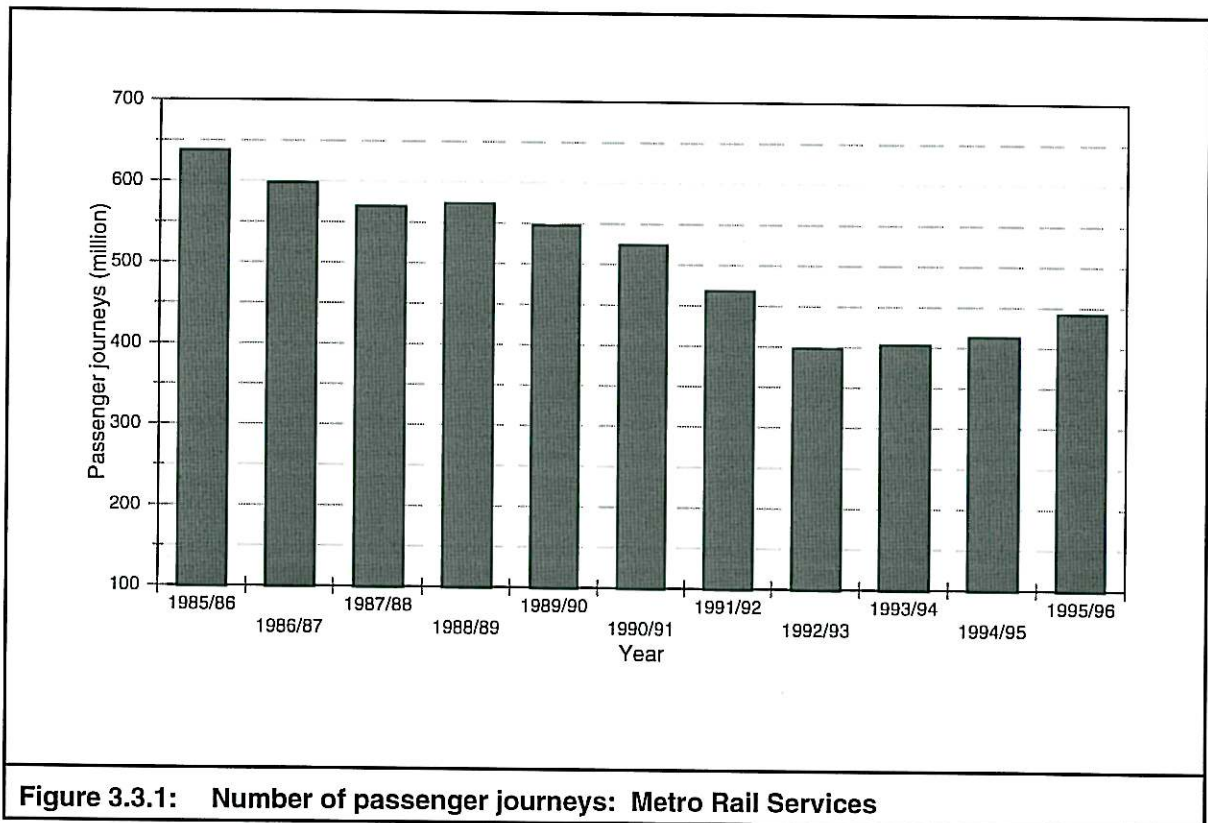


Figure 3.3.1: Number of passenger journeys: Metro Rail Services

4 Freight transport

4.1 ROAD FREIGHT TRANSPORT

Table 4.1.1: Tonnage transported per sector per transport mode			
Sector	Road transport		
	Private ¹	Public ²	Rental ³
Tonnage transported per sector per transport mode: 1990			
Agriculture, hunting, forestry and fishery	85 560 501	42 334 435	3 280 906
Mining and quarrying	10 141 556	24 058 405	808 844
Manufacturing	96 663 428	44 293 443	3 189 267
Electricity, gas and water	492 475	42 957	118 385
Construction	10 368 403	1 987 943	114 802
Wholesale, retail trade, catering and accommodation services	71 847 286	16 510 279	2 552 097
Financing, insurance, real estate and business services	1 414	613	..
Community, social and personal services	68 035 887	2 036 600	..
Total	343 110 950	131 264 675	10 064 301
Tonnage transported per sector per transport mode: 1991			
Agriculture, hunting, forestry and fishery	84 962 992	54 869 737	4 650 688
Mining and quarrying	20 924 122	7 216 420	1 145 058
Manufacturing	94 516 487	53 941 089	6 778 890
Electricity, gas and water	208 809	25 658	18 053
Construction	38 199 113	6 392 286	1 911 579
Wholesale, retail trade, catering and accommodation services	78 326 885	34 197 162	1 681 175
Financing, insurance, real estate and business services	98 305	195	..
Community, social and personal services	53 292 129	..	2 364 924
Total	370 528 842	156 642 547	18 550 367
Tonnage transported per sector per transport mode: 1992			
Agriculture, hunting, forestry and fishery	55 272 978	45 919 616	8 797 167
Mining and quarrying	16 309 055	14 154 538	6 480 106
Manufacturing	102 117 263	33 685 54	9 052 434
Electricity, gas and water	104 256	1 716	52 402
Construction	49 180 556	20 129 134	2 001
Wholesale, retail trade, catering and accommodation services	76 552 035	27 987 879	5 247 689
Financing, insurance, real estate and business services	5 639	..	37
Community, social and personal services	68 187 784	..	..
Total	367 729 566	115 561 437	29 631 836
Tonnage transported per sector per transport mode: 1993			
Agriculture, hunting, forestry and fishery	52 536 70	49 413 756	5 455 693
Mining and quarrying	16 781 643	31 955 776	992 018
Manufacturing	103 411 165	31 946 397	169 738
Electricity, gas and water	872 816	..	103 489
Construction	10 729 541	8 515 508	34 062
Wholesale, retail trade, catering and accommodation services	21 112 962	6 302 140	2 857 393
Financing, insurance, real estate and business services	25 466 938	..	..
Community, social and personal services	75 336 143	242 152	2 690 578
Total	258 964 878	128 375 729	12 301 971
Tonnage transported per sector per transport mode: 1994			
Agriculture, hunting, forestry and fishery	43 242 058	62 468 755	3 178 416
Mining and quarrying	19 533 614	33 037 678	..
Manufacturing	122 540 117	42 675 679	662 155
Electricity, gas and water	3 953	..	..
Construction	11 201 920	..	86 993
Wholesale, retail trade, catering and accommodation services	38 789 641	2 245 334	4 019 888
Financing, insurance, real estate and business services	5 934 744	..	2 415 935
Community, social and personal services	96 511 013	..	2 323 868
Total	337 757 060	140 427 446	12 687 255

Research Unit for Transport Economic and Physical Distribution Studies, RAU

¹ Private refers to companies whose primary objective is not transport, e.g. the retail stores transport section.

² Public refers to private firms transporting goods for reward.

³ Rental refers to goods transported on rented vehicles.

Table 4.1.2: Extent (expressed as percentage of total transported) of transport by type of goods: Private carriers¹

Type of goods	1987	1988	1989	1990	1991	1992	1993	1994
Livestock	4,9	4,1	3,9	3,7	6,2	4,1	5,8	4,6
Agriculture	12,9	10,0	12,5	12,6	10,9	14,3	14,1	10,4
Fresh fish	0,8	0,3	0,5	0,4	0,3	0,3	0,4	0,2
Mining products	1,7	2,3	2,1	2,6	2,3	0,4	1,8	2,8
Sand and stone	5,5	3,4	7,0	8,2	7,2	7,4	7,1	5,9
Bricks	2,0	2,5	3,1	3,0	3,2	2,9	2,6	1,3
Cement	1,7	2,1	3,0	3,1	2,8	2,8	1,7	1,9
Prepared foods	6,0	6,3	5,4	1,5	7,2	6,5	7,8	10,7
Liquor and tobacco	2,0	1,8	2,7	2,8	0,6	2,5	1,9	2,7
Textiles, clothing and shoes	4,8	4,0	5,1	4,5	2,1	5,7	4,9	7,1
Wood	1,9	3,0	1,9	3,0	2,7	2,8	1,7	2,7
Paper and related products	4,9	4,6	6,7	4,1	5,2	3,9	4,2	3,2
Furniture	4,3	7,8	3,9	1,9	1,7	1,7	1,6	1,9
Chemicals and petroleum products	3,5	4,1	5,8	3,1	4,1	3,3	3,3	3,2
Rubber and plastic products	2,9	1,9	2,9	2,3	1,9	3,1	1,2	1,8
Glass and glass products	0,9	0,7	0,6	1,7	0,8	0,6	0,8	1,1
Toilets and sewerage basins	0,7	0,5	1,4	1,3	1,7	1,8	1,4	0,7
Metal	3,9	2,9	1,4	2,2	3,4	2,6	4,3	3,5
Scrap metal	0,7	1,3	2,2	1,1	1,6	1,1	1,2	1,0
Manufactured metal products and equipment	16,8	16,1	7,2	10,1	12,1	13,6	9,4	8,7
Motor vehicles	0,6	3,7	0,6	0,2	0,3	1,1	1,0	0,6
Other	16,6	16,6	20,1	26,6	21,7	17,5	21,8	24,0
Total	100	100	100	100	100	100	100	100

Research Unit for Transport Economic and Physical Distribution Studies, RAU

¹ Private refers to companies whose primary objective is not transport.

Table 4.1.3: Extent (expressed as percentage of total earnings) of transport by type of goods¹: Public carriers²

Type of goods	Year					
	1989	1990	1991	1992	1993	1994
Livestock	0,3	..	0,3	0,4	0,4	0,3
Fruit, vegetables, fish, frozen foods and other perishable products	7,0	..	7,8	7,9	8,1	7,6
Coal, ores and minerals	6,2	..	5,9	4,7	4,7	4,4
Bricks, stone, slate, soil and sand	14,5	..	15,8	14,3	14,1	13,5
Cement, chemical products, milk, etc. by tanker	11,6	..	12,7	11,7	12,0	13,1
Furniture and household effects by furniture removal van	6,6	..	9,2	9,7	9,9	9,3
Abnormal loads	2,9	..	3,2	3,6	3,6	4,0
Parcels	3,0	..	3,0	4,2	5,0	5,1
General goods	47,9	..	42,1	43,5	42,2	42,7
Total	100	..	100	100	100	100

Research Unit for Transport Economic and Physical Distribution Studies, RAU

¹ It was not possible to supply comparative figures due to changes in the product categories.

² Public refers to private firms transporting goods for reward.

Vehicle category	1987	1988	1989	1990	1991	1992	1993	1994
Private carriers¹								
Light delivery vehicle	30 616	29 826	31 120	35 791	36 855	40 316	40 527	37 135
Two-axle rigid truck	35 338	43 992	35 667	33 988	35 849	34 455	37 017	37 560
Three-axle rigid truck	40 643	48 812	40 095	37 941	39 496	40 397	49 475	45 234
Four-axle rigid truck	42 720	.. ³	.. ³	.. ³	.. ³	-	-	-
Three-axle articulated truck	47 563	42 331	37 169	33 084	29 836	32 054	38 078	49 131
Four-axle articulated truck	57 104	42 849	54 940	48 346	54 875	52 096	42 976	45 151
Five-axle articulated truck	68 182	60 043	72 882	63 924	64 244	66 641	63 132	71 500
Average	46 023	44 642	45 312	42 179	43 525	44 326	45 201	47 619
Public carriers²								
Light delivery vehicle	38 383	42 616	42 198	46 853	45 887	43 494	50 211	42 769
Two-axle rigid truck	50 703	44 317	47 004	50 766	53 658	56 938	54 986	45 869
Three-axle rigid truck	60 617	61 214	65 889	63 588	64 812	61 717	53 153	56 154
Four-axle rigid truck	88 625	.. ³	.. ³	.. ³	.. ³	-	-	-
Three-axle articulated truck	64 150	53 356	50 316	61 314	76 542	60 860	68 910	41 125
Four-axle articulated truck	78 456	83 978	65 121	72 195	74 110	65 848	75 119	95 417
Five-axle articulated truck	89 357	84 070	69 556	84 042	69 273	73 825	96 348	117 912
Average	67 184	61 591	56 681	63 126	64 047	60 447	66 455	66 541

Research Unit for Transport Economic and Physical Distribution Studies, RAU

¹ Private refers to companies whose primary objective is not transport, e.g. the retail stores transport section.

² Public refers to private firms transporting goods for reward.

³ Vehicle category was not identified in the 1991 survey.

	Financial year ending 31 March				
	1990/91	1991/92	1992/93	1993/94	1994/95
Total (thousand tons)	3 000	3 100	2 486	2 225	2 262
Route distance operated (km)	..	46 070	..	59 700	60 974

Transnet

Table 4.1.6: Transportation of goods by Transnet by road: Financial year ending 31 March 1995

Business unit	Fleet size	Number of employees	Market share	Distance travelled	Tons
Refrigerated cargo	231	383	35% - 80%	25 210 237	572 000
Cargo and tanker	295	605	25% - 50%	35 763 713	1 690 000
Corporate office	-	88	-	-	-
Total	526	1 076	40%¹	60 973 950	2 262 000

Transnet

¹ Includes the passenger service - see Table 3.2.6.

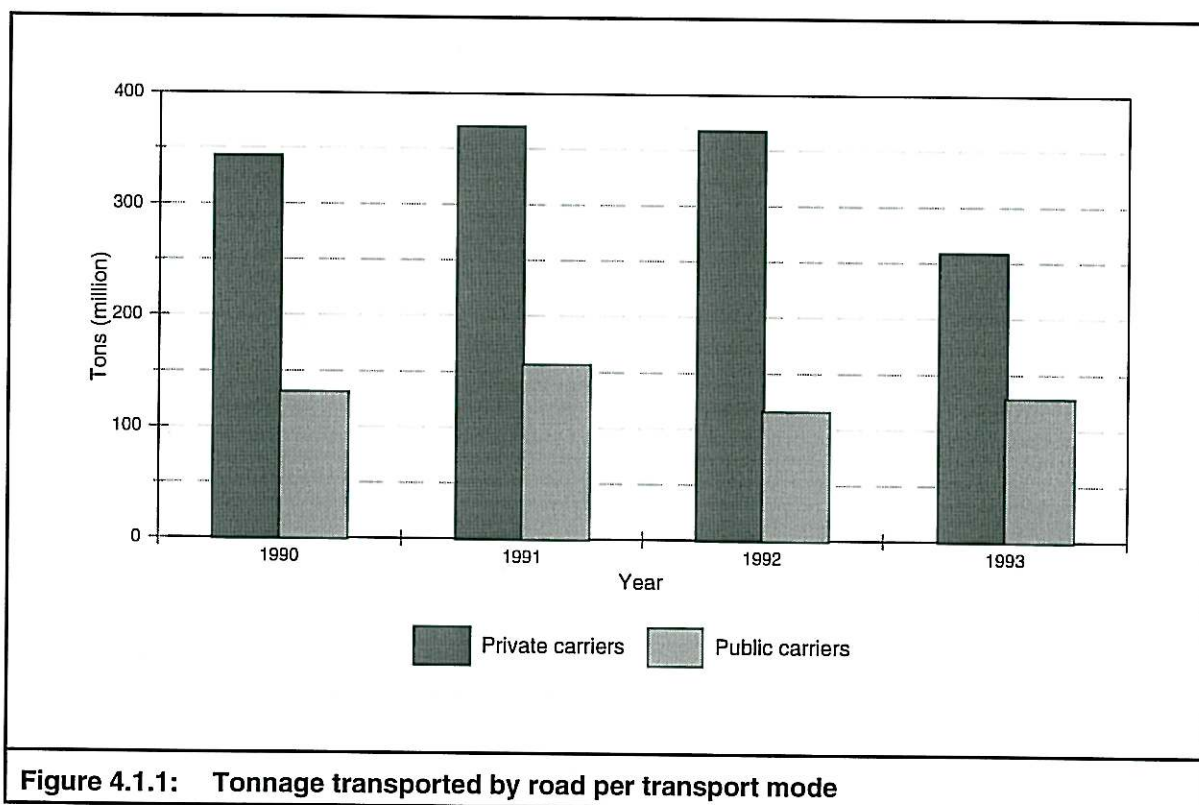


Figure 4.1.1: Tonnage transported by road per transport mode

4.2 RAIL FREIGHT TRANSPORT

Year ending 31 March	Liquids	Cement, explosives and related products	Wood and paper	Metals and minerals	Agriculture	Coal and ore	Total
1985/86	167 330
1986/87	166 763
1987/88	163 670
1988/89	174 160
1989/90	183 420
1990/91	171 300
1991/92	167 337
1992/93	166 248
1993/94	164 000
1994/95	9 600	11 100	5 500	16 600	14 900	113 800	171 500
1995/96	9 896	10 579	5 617	17 956	10 849	120 196	175 093

Transnet

¹ CX (containers) and PX excluded.

Country	Financial year ending 31 March					
	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96
Tonnage: Traffic to RSA from						
Botswana	150 383	298 770	250 618
Zimbabwe	574 713	848 952	637 791
Zambia	57 601	82 695	75 272
Zaire	1 510	575	1 024
Mozambique	14 085	14 235	29 719
Swaziland	257 648	428 403	304 913
Namibia	84 159
Total	3 537 880	3 332 318	4 743 924	1 055 940	1 673 630	1 383 496
Tonnage: Traffic from RSA to						
Botswana	507 326	461 404	398 792
Zimbabwe	1 037 670	911 374	1 350 868
Zambia	295 304	82 764	127 600
Zaire	46 154	37 104	21 526
Mozambique	790 731	621 498	851 259
Swaziland	278 299	278 691	232 847
Namibia	264 469
Total	1 380 000	1 282 377	1 035 354	2 955 484	2 392 835	3 247 361

Transnet

¹ Excluding PX and CX.

Table 4.2.3: Railway lines in the Republic of South Africa ¹ (km)

	31 March										
	1986	1987	1988	1989 ²	1990	1991	1992	1993	1994	1995	1996
Route distance	23 740	23 558	23 507	21 244	21 163	21 244	20 778	20 934	21 303	20 319	20 319
Route distance electrified	8 392	8 440	8 515	9 032	9 090	9 090	9 088	8 976	9 087	9 078	16 946
Number of railway stations	972	935	936	933	933	933	..	..	..	..

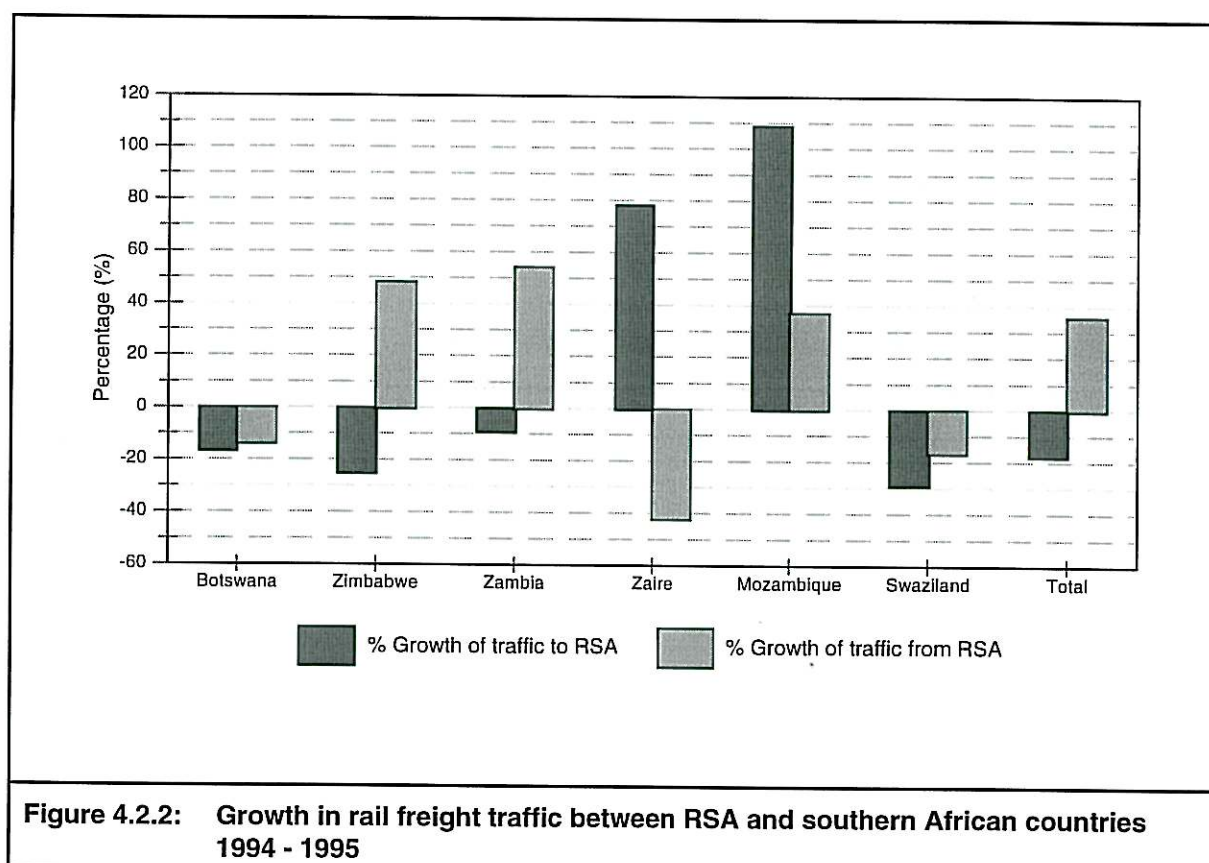
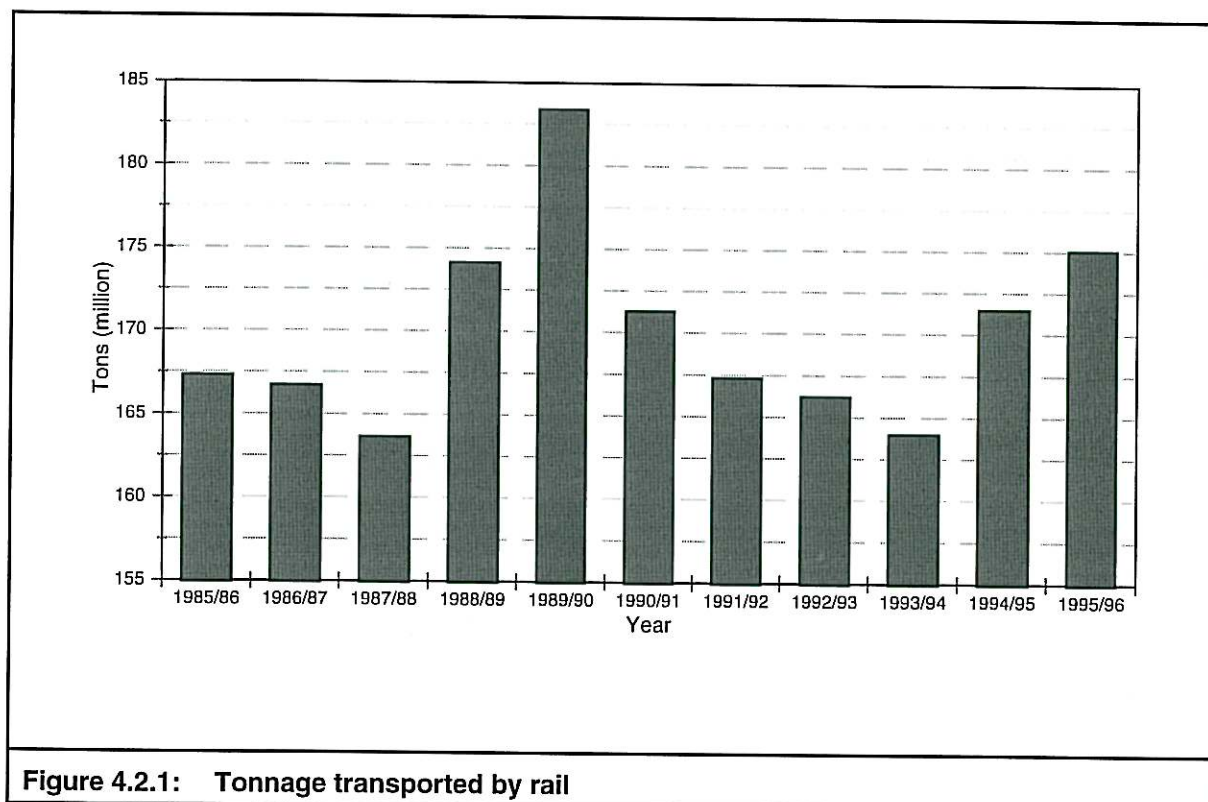
Transnet

¹ Railway lines that are the property of Spoornet, i.e. excluding private and SARCC railway lines.² Namibia excluded as from 1988/89.**Table 4.2.4: Railway fleet ¹**

	Years									
	1987	1988	1989 ²	1990	1991	1992	1993	1994	1995	1996
Steam locomotives	609	458	248	216	169	..	-	-	-	-
Electric locomotives	2 364	2 350	2 362	2 341	2 235	..	2 336	2 049	2 164	2 164
Diesel locomotives	1 566	1 561	1 434	1 433	1 409	..	1 410	1 370	1 376	1 376
Coaching vehicles	10 088	7 708	7 760	8 999	4 218	..	3 778	1 302	3 660	3 660
Goods stock, excluding cranes	166 896	167 181	159 666	156 835	154 232	..	155 320	138 749	147 330	130 000
Total	181 523	179 258	171 470	169 824	162 263	..	162 844	143 470	154 530	137 200

Transnet

¹ Asset register.² Namibia excluded as from 1988/89.



4.3 SHIPPING

Table 4.3.1: Number of vessels calling at South African harbours by type of vessel

Vessel type	Financial year ending 31 March										
	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96
Coasters	790	855	582	523	804	1 049	958	995	928	845	906
Foreign fishing	984	831	1 016	986	1 030	965	968	944	973	963	961
Trawlers	4 001	4 824	3 882	4 009	4 510	4 576	2 270	2 113	1 938	1 754	1 841
Ocean-going	7 159	7 102	7 214	7 262	7 528	7 337	8 135	6 760	7 199	8 138	8 433
Other	..	..	..	..	..	..	..	1 672	1 488	1 489	1 281
Total	12 934	13 612	12 694	12 780	13 872	13 927	12 331	12 484	12 526	13 189	13 422

Transnet

Table 4.3.2: Number of vessels handled by South African harbours

Harbour	Financial year ending 31 March										
	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96
Durban	4 821	4 825	4 727	5 055	5 075	5 218	5 010	5 611	5 312	5 124	5 319
East London	410	467	450	368	412	319	385	418	342	364	316
Mossel Bay	295	381	267	291	670	433	466	369	452	477	372
Port Elizabeth	2 156	2 609	1 600	1 747	1 809	1 853	2 088	1 676	1 804	1 429	1 782
Richards Bay	972	1 017	1 037	1 034	1 034	1 111	1 148	1 272	1 367	1 541	1 669
Saldanha Bay	174	165	154	186	228	246	223	268	242	266	275
Cape Town	4 106	4 148	4 459	4 099	4 644	4 747	3 011	2 870	3 007	3 988	3 689
Total	12 934	13 612	12 694	12 780	13 872	13 927	12 331	12 484	12 526	13 189	13 422

Transnet

Table 4.3.3: Containerization (TEUs)

Harbour	Financial year ending 31 March											
	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	
Durban	388 190	383 986	423 602	486 291	499 201	527 199	587 840	573 965	658 312	789 682	890 571	
Cape Town	140 172	139 048	154 844	153 650	154 117	151 696	172 557	190 549	209 522	252 632	313 154	
Port Elizabeth	57 833	49 205	57 256	83 305	82 110	77 641	76 908	91 498	96 877	130 450	152 419	
East London	22 966	25 966	26 378	27 858	25 016	18 633	20 420	21 305	21 767	25 739	30 853	
Richards Bay	-	-	-	-	-	-	-	-	-	6 382	10 837	
Total	609 161	598 205	662 080	751 104	760 444	775 169	857 725	877 317	986 478	1 204 885	1 397 834	

Transnet

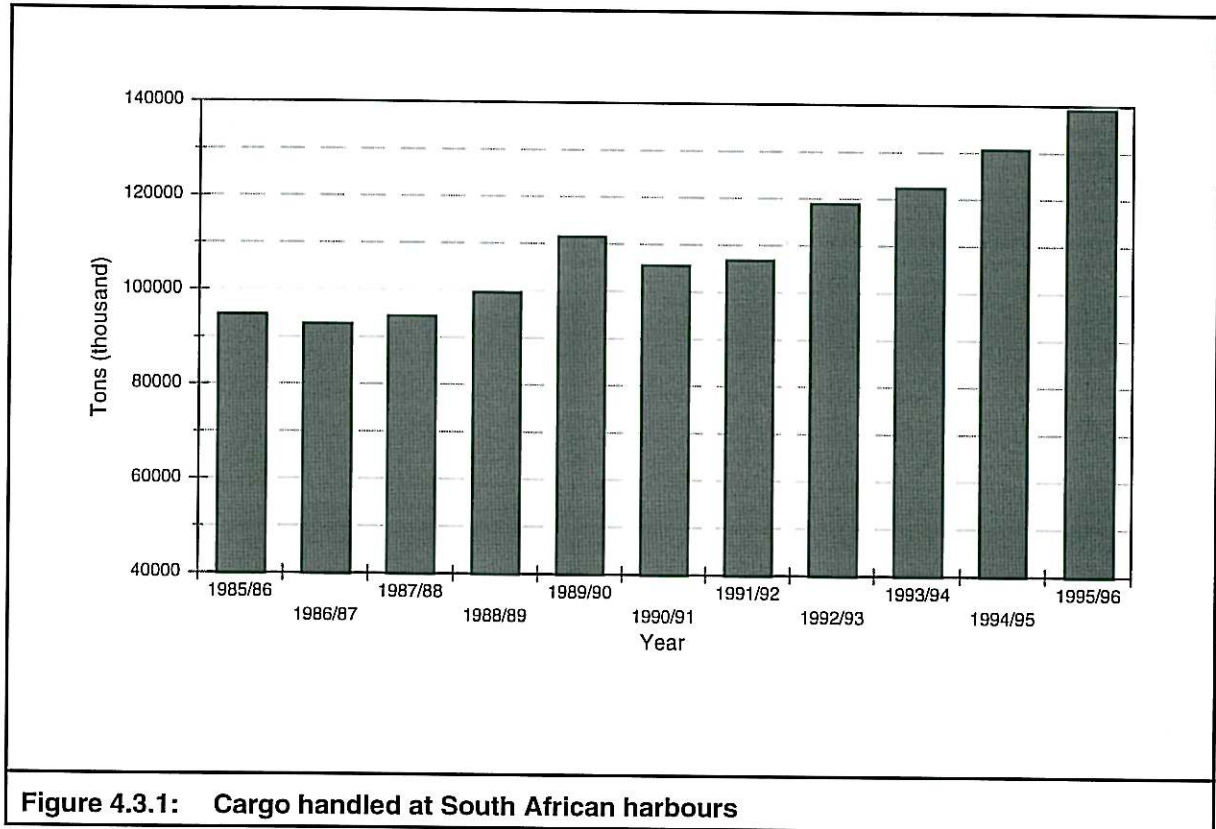
Table 4.3.4: Total cargo handled at South African harbours (thousand tons)

Vessel type	Financial year ending 31 March											
	1985/86	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	
Coast-wise	2 418	1 904	2 058	1 740	1 525	2 382	2 703	2 299	2 377	2 320	1 830	
Overseas	92 413	90 901	92 412	97 852	110 045	103 168	104 140	116 668	118 960	126 421	134 702	
Trans-shipped	-	-	-	-	-	-	-	-	1 044	1 961	2 730	
Total	94 831	92 805	94 470	99 592	111 570	105 550	106 843	118 967	122 381	130 702	139 262	

Transnet

Table 4.3.5: Cargo handled at different South African harbours (thousand tons)

Financial year ending 31 March	Durban	East London	Mossel Bay	Port Elizabeth	Richards Bay	Saldanha	Cape Town	Total
Landed cargo								
1985/86	6 903	433	42	804	1 041	12	1 880	11 115
1986/87	6 715	477	26	619	861	5	1 885	10 588
1987/88	7 729	455	4	726	1 365	-	2 014	12 293
1988/89	8 188	470	-	826	1 639	5	1 967	13 095
1989/90	8 861	435	13	787	1 572	15	1 965	13 648
1990/91	8 784	586	73	813	1 744	-	2 207	14 207
1991/92	9 176	543	1	832	1 754	9	2 366	14 681
1992/93	13 434	1 328	-	1 706	1 953	22	3 230	21 673
1993/94	10 290	548	-	943	2 160	-	2 507	16 448
1994/95	10 700	612	-	1 130	2 548	-	3 249	18 239
1995/96	13 054	779	-	1 540	3 128	-	3 700	22 201
Shipped cargo								
1985/86	17 847	1 078	6	5 522	45 619	10 585	2 389	83 046
1986/87	17 455	1 700	23	3 991	46 849	8 846	2 666	81 530
1987/88	16 420	1 032	10	3 316	48 377	10 186	1 963	81 304
1988/89	14 997	760	21	4 246	50 432	12 959	2 255	85 670
1989/90	16 314	2 889	26	3 705	54 096	16 739	2 792	96 563
1990/91	16 062	593	30	3 230	50 839	16 525	2 887	90 166
1991/92	15 504	205	13	2 729	54 527	15 530	2 953	91 461
1992/93	13 150	224	22	2 464	60 727	16 820	2 859	96 266
1993/94	14 227	359	30	2 340	65 901	18 851	3 181	104 889
1994/95	14 002	2 014	23	2 485	67 118	21 059	3 801	110 502
1995/96	12 069	156	14	3 191	73 009	22 562	3 330	114 331
Transhipped								
1985/86	398	-	-	15	-	-	256	669
1986/87	403	1	-	6	-	-	280	690
1987/88	557	2	-	5	-	-	309	873
1988/89	458	1	-	195	-	-	172	826
1989/90	860	1	-	271	8	-	219	1 359
1990/91	867	2	-	175	8	-	126	1 178
1991/92	380	9	-	179	-	-	131	699
1992/93	622	7	-	224	-	-	176	1 029
1993/94	553	30	-	222	-	-	240	1 045
1994/95	1 169	-	-	388	-	-	404	1 761
1995/96	1 702	11	-	400	12	-	604	2 730
Total cargo								
1985/86	25 148	1 511	48	6 342	46 660	10 597	4 525	94 831
1986/87	24 572	2 178	49	4 616	47 709	8 851	4 830	92 760
1987/88	24 706	1 489	14	4 047	49 742	10 186	4 286	94 470
1988/89	23 644	1 230	21	5 268	52 071	12 964	4 395	99 593
1989/90	26 036	3 325	40	4 763	55 676	16 754	4 975	111 570
1990/91	25 713	1 180	102	4 218	52 590	16 525	5 220	105 548
1991/92	25 061	757	15	3 740	56 281	15 539	5 450	106 843
1992/93	27 206	1 559	22	4 393	62 680	16 842	6 265	118 967
1993/94	25 069	937	30	3 504	68 061	18 851	5 928	122 380
1994/95	25 871	2 626	23	4 002	69 666	21 059	7 454	130 701
1995/96	26 825	946	14	5 131	76 149	22 562	7 634	139 262



5 Air transport

5.1 OPERATOR STATISTICS: SOUTH AFRICAN AIRWAYS (SAA)

	31 March										
	1988	1989	1990	1991	1992	1993	1994	1995	1996		
Airbus A300	8	5	9	8	7	8	8	8	8		
Airbus A320	-	-	-	4	4	6	7	7	7		
Boeing 737-200	17	16	17	16	17	13	13	11	11		
Boeing 747 SUD	2	2	2	-	-	-	-	-	-		
Boeing 747-200	-	-	-	6	6	5	5	1	5		
Boeing 747-244 Kombi	2	1	1	-	-	-	-	-	-		
Boeing 747-300	-	-	-	2	3	2	2	4	4		
Boeing 747-400	-	-	-	2	3	3	4	4	4		
Boeing 747B	4	4	5	-	-	-	-	5	-		
Boeing 747SP	5	2	5	5	5	5	5	4	5		
Boeing 767-200	-	-	-	-	-	-	1	1	1		
Douglas DC-3	-	-	-	-	-	1	1	2	2		
Douglas DC-4	-	-	-	-	-	1	1	2	2		
Harvard	-	-	-	-	-	1	1	2	2		
Junkers JU 52	-	1	1	1	1	1	1	1	1		
Boeing 737	-	-	-	-	-	-	-	2	-		
Total	38	31	40	44	46	46	49	54	52		

Transnet

Table 5.1.2: Number of passengers carried											
31 March											
	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96		
Internal service	3 837 457	4 511 785	4 652 268	4 292 681	3 842 441	3 569 907	3 348 487	3 322 905	4 028 696		
International ¹	672 409	683 864	722 069	786 603	843 981	981 423	1 155 418	1 206 355	942 810		
Total	4 509 866	5 195 649	5 374 337	5 079 284	4 686 422	4 551 330	4 503 905	4 529 260	4 971 506		

Transnet

¹ Includes regional flights to Africa.

Table 5.1.3: Air cargo conveyed ¹ (tons)											
31 March											
	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95			
Internal service	46 232	46 954	44 360	39 114	35 014	35 776	38 821	44 136			
Services to neighbouring territories ²	2 800	2 736	3 024	2 730	2 736	2 514	4 408	2 944			
International ¹	20 372	17 231	15 261	14 250	17 627	23 830	30 824	19 946			
Total	69 404	66 921	62 645	56 094	55 377	62 120	74 053	67 026			

Transnet

¹ Mail excluded.² Botswana, Lesotho, Swaziland, Transkei, Zimbabwe, Zambia, Malawi, Mauritius.

Table 5.1.4: Revenue-earning traffic (thousand tons-km)									
31 March									
	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96
Internal service	354 617	406 109	424 566	390 080	439 738	316 296	293 123	311 515	318 257
Services to neighbouring territories ¹	24 455	25 474	29 076	36 388	44 991	52 331	67 554	73 348	94 940
International	644 964	596 800	580 145	542 163	592 504	764 441	934 608	875 665	935 295
Total	1 024 036	1 028 383	1 033 807	968 631	1 077 233	1 133 068	1 295 285	1 260 528	1 348 492

Transnet

¹ Botswana, Lesotho, Swaziland, Transkei, Zimbabwe, Zambia, Malawi, Mauritius.

Table 5.1.5: Number of flights per week									
Years									
	1990	1991	1992	1993	1994	1995	1996		
Internal service	705	..	650	595	672	575	785		
International ¹	74	..	76	133	147	160	155		
Total	779	..	726	728	819	735	940		

Transnet

¹ Includes regional flights to Africa.

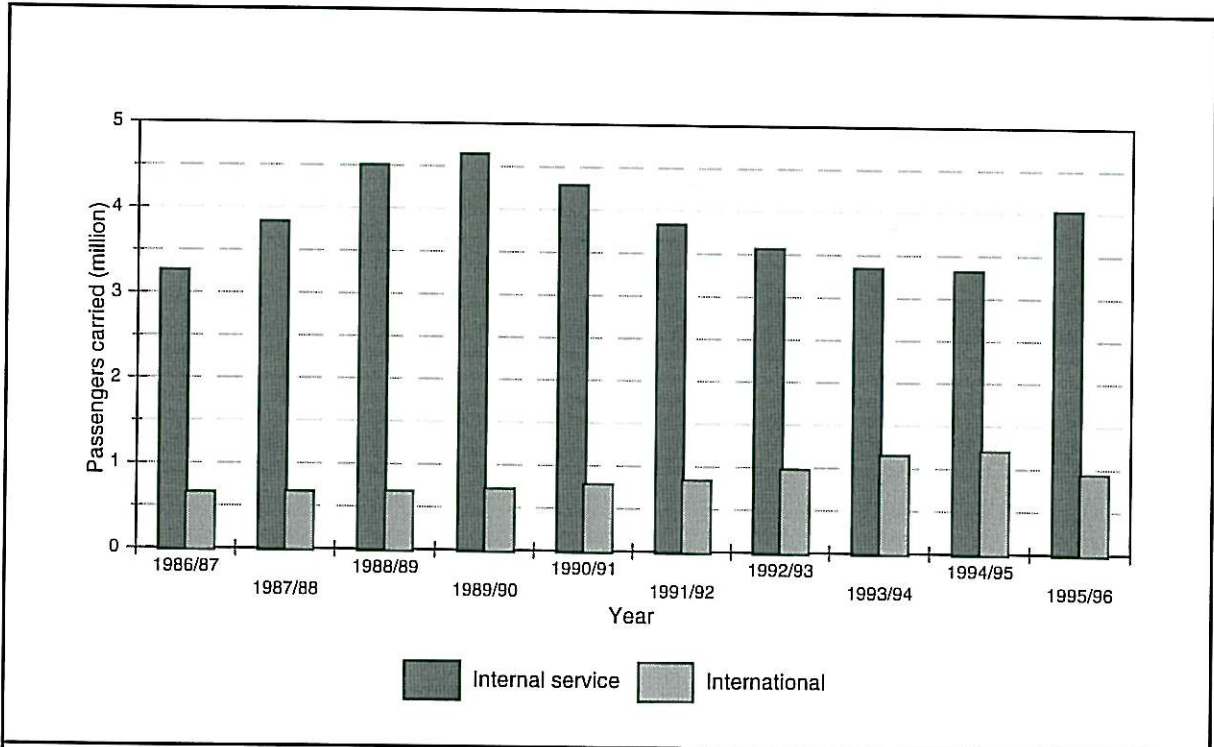


Figure 5.1.1: South African Airways: Number of passengers carried

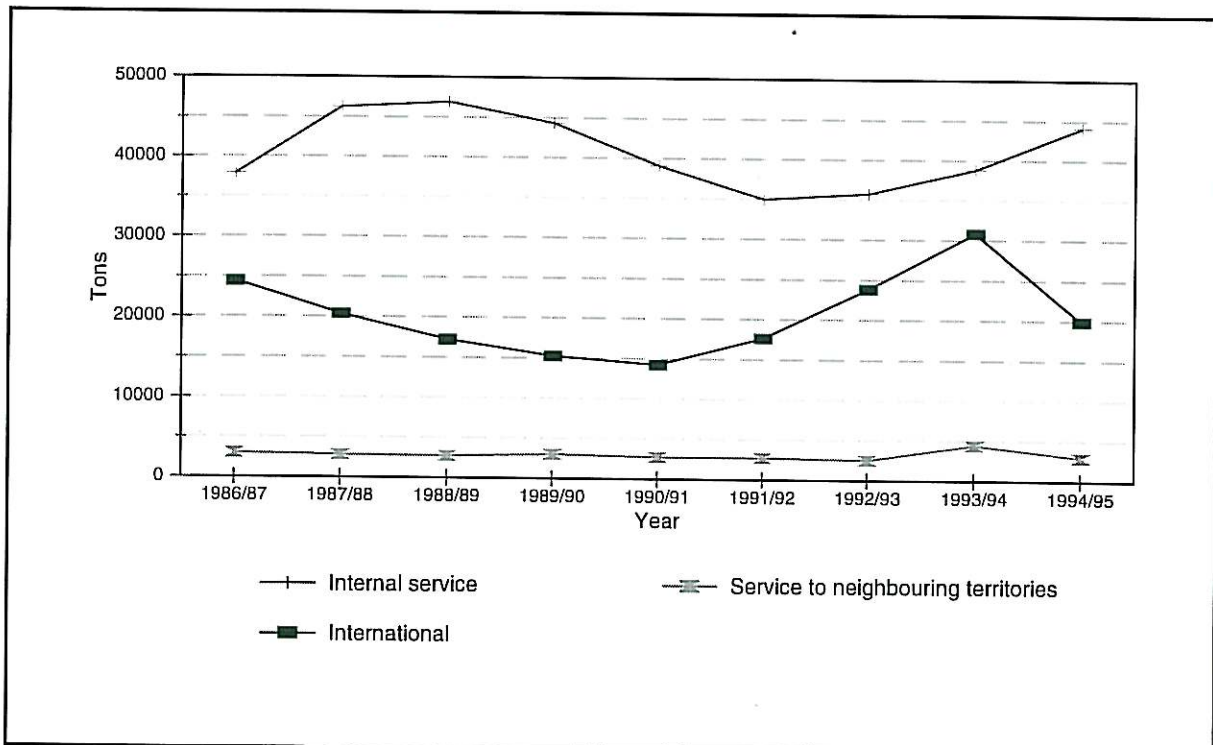


Figure 5.1.2: South African Airways: Cargo conveyed

5.2 OPERATOR STATISTICS: OTHER

Financial year ending 31 March	Number of operators	Aircraft departures	Aircraft km (thousand)	Passengers carried	Freight (tons)
1985/86	21	26 930	9 748	257 664	815
1986/87	19	25 961	8 908	227 922	822
1987/88	18	27 658	9 795	251 245	1 464
1988/89	20	26 224	10 058	287 605	2 213
1989/90	19	23 195	11 083	356 087	3 001
1990/91	16	19 149	8 798	241 973	2 296
1991/92	14	28 189	10 715	430 659	6 349
1992/93	26	51 742	41 775	3 696 272	39 244
1993/94	29	79 292	100 698	5 714 515	85 926
Domestic	18	61 831	52 493	4 416 141	50 837
International	11	17 461	48 205	1 253 374	35 089
1994/95	28	86 813	96 502	5 702 872	72 441
Domestic	18	74 914	51 676	4 436 638	49 311
International	10	11 899	44 826	1 266 234	23 130
1995/96	23	105 862	115 715	7 048 320	66 943
Domestic	18	93 037	64 222	5 495 836	44 295
International	5	12 825	51 493	1 552 484	22 648

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Table 5.2.2: Non-scheduled air services (all operators, excluding SAA)

Financial year ending 31 March	Number of operators	Number of flights	Aircraft hours	Aircraft km (thousand)	Passengers carried	Freight (tons)
1985/86	132	52 243	86 844	29 767	440 000	22 057
1986/87	128	50 705	88 874	30 767	458 500	20 202
1987/88	125	62 472	99 553	60 104	655 000	25 520
1988/89	104	58 526	91 982	32 254	577 300	22 425
1989/90	123	59 087	108 734	33 251	415 800	23 616
1990/91	139	56 608	89 831	31 444	401 100	25 404
1991/92	145	57 660	85 290	29 227	378 800	21 556
1992/93	235	47 672	78 883	41 988	339 500	25 611
1993/94	226	52 320	84 217	27 600	263 500	14 658
Domestic	122	33 072	48 726	13 264	175 200	3 596
Inter-national	104	19 248	35 491	14 336	88 300	11 062
1994/95	237	53 819	94 296	32 326	332 400	19 731
Domestic	138	34 136	54 239	15 058	169 800	3 315
Inter-national	99	19 683	40 057	17 268	162 600	16 416
1995/96	218	57 160	104 157	31 782	315 300	27 999
Domestic	148	40 564	65 645	17 916	188 500	5 158
Inter-national	70	16 596	38 512	13 866	126 800	22 841

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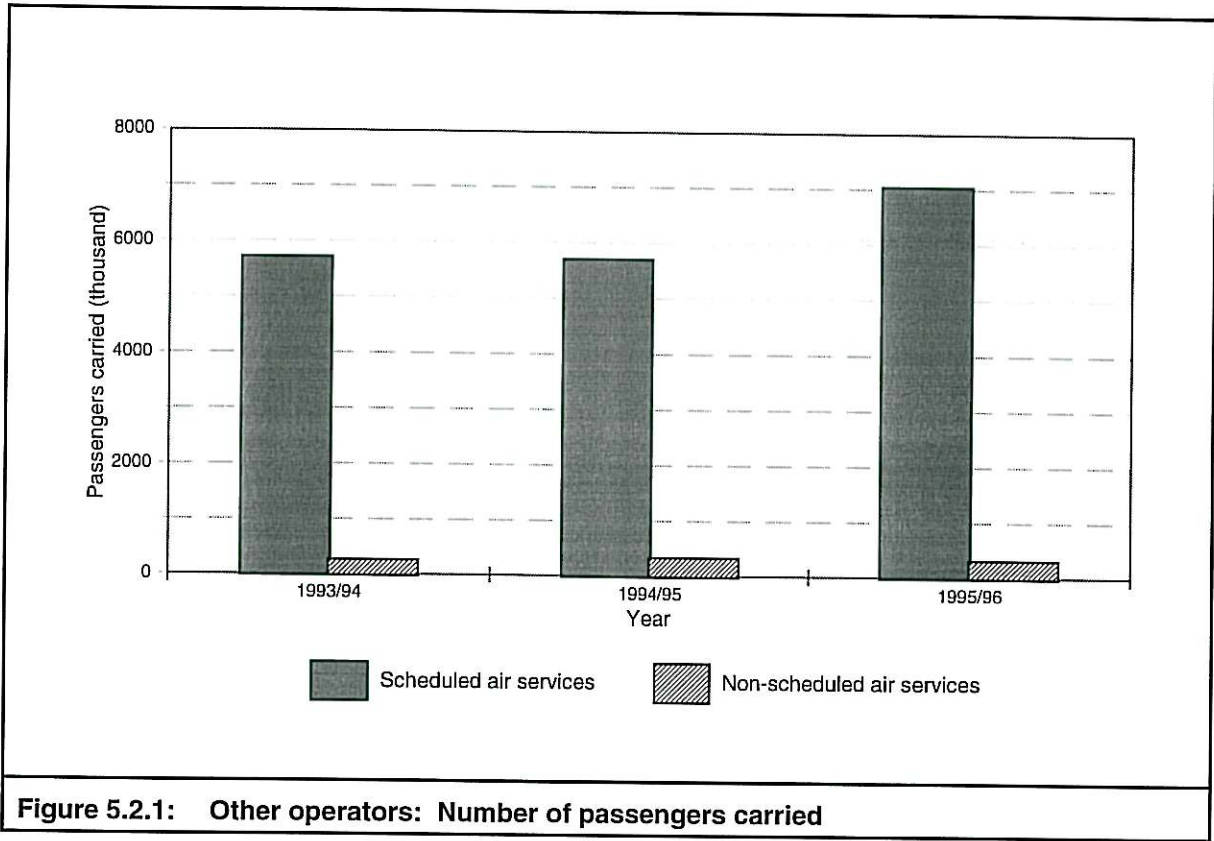


Figure 5.2.1: Other operators: Number of passengers carried

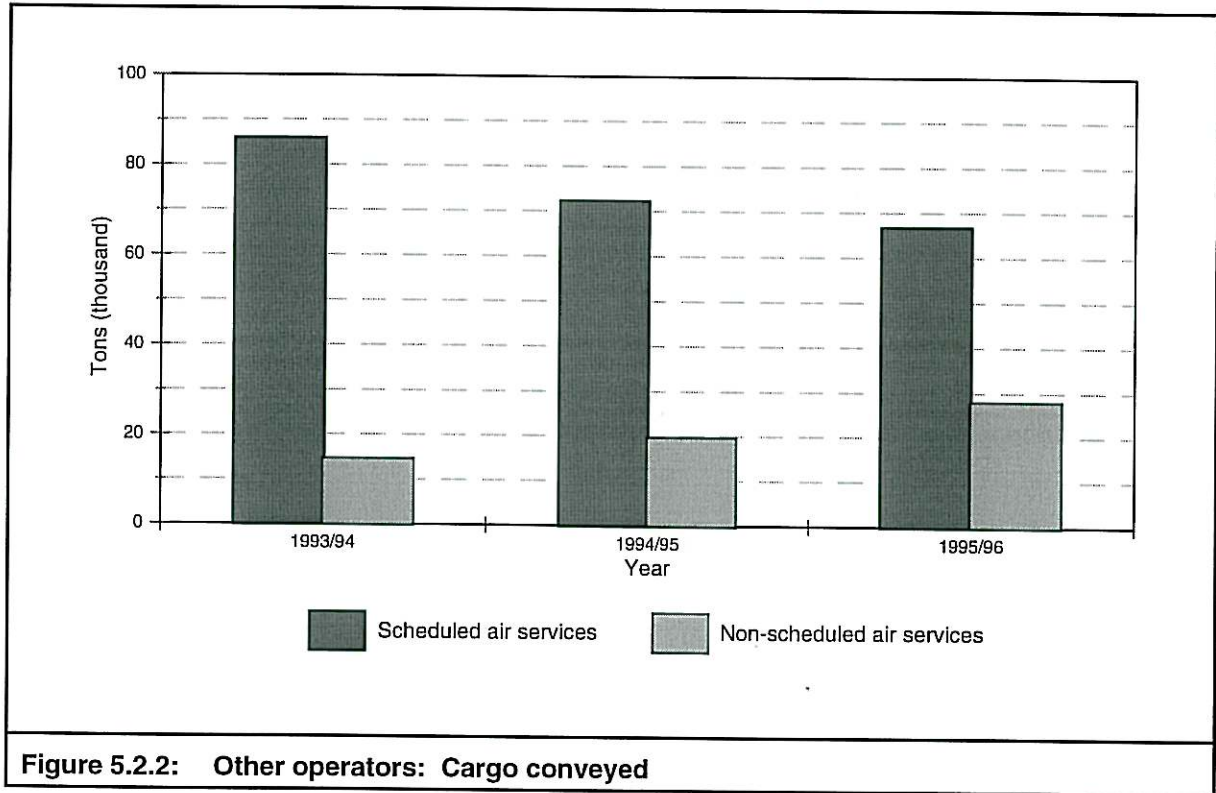


Figure 5.2.2: Other operators: Cargo conveyed

5.3 AIRPORTS: STATE AIRPORTS

Airport	Financial year ending 31 March									
	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96
Domestic aircraft movements										
Bloemfontein	31 481	33 356	32 095	39 477	34 195	43 114	31 411	27 292	13 027	14 208
Cape Town	40 926	48 697	49 788	49 279	33 214	42 083	49 067	48 483	44 534	57 200
Durban	24 230	25 027	26 972	28 140	27 524	27 512	33 509	38 200	27 383	29 682
East London	18 680	20 826	21 384	21 849	20 260	18 903	17 615	18 247	20 096	19 946
George	11 961	12 522	13 924	13 476	20 772	26 434	20 828	20 095	12 305	6 788
Johannesburg	41 980	45 312	53 586	69 898	55 072	48 548	51 442	51 996	57 748	66 334
Kimberley	9 774	9 829	10 423	9 731	10 148	9 837	8 448	9 860	9 567	9 400
Port Elizabeth	29 799	32 818	31 891	35 313	31 829	34 165	37 676	42 476	42 033	38 499
Upington	8 626	7 695	8 324	9 974	8 057	7 100	6 260	5 295	5 029	5 827
Total	217 457	236 082	248 387	277 137	241 071	257 696	256 256	261 944	231 722	247 884
International aircraft movements										
Bloemfontein	249	421	418	192	132	162	22	129	2	5
Cape Town	222	258	296	1 154	1 860	2 109	2 088	3 013	3 030	3 612
Durban	1 986	2 267	2 679	2 523	3 177	2 498	2 258	2 249	1 838	2 016
Johannesburg	21 911	21 873	23 396	27 695	27 369	22 824	29 382	31 191	28 456	31 809
Total	24 368	24 819	26 789	31 524	32 538	27 593	33 750	36 562	33 326	37 442
Total aircraft movements										
Bloemfontein	31 730	33 777	32 513	39 629	34 327	43 276	31 433	27 421	13 029	14 213
Cape Town	41 148	48 955	50 084	50 433	35 074	44 192	51 155	51 496	47 564	60 812
Durban	26 216	27 294	29 651	30 663	30 701	30 010	35 767	40 449	29 221	31 698
East London	18 680	20 826	21 384	21 849	20 260	18 903	17 615	18 247	20 096	19 946
George	11 961	12 522	13 924	13 476	20 772	26 434	20 828	20 095	12 305	6 788
Johannesburg	63 891	67 185	76 982	97 593	82 441	71 372	80 824	83 187	86 204	98 143
Kimberley	9 774	9 829	10 423	9 731	10 148	9 837	8 448	9 860	9 567	9 400
Port Elizabeth	29 799	32 818	31 891	35 313	31 829	34 165	37 676	42 476	42 033	38 499
Upington	8 626	7 695	8 324	9 974	8 057	7 100	6 260	5 295	5 029	5 827
Total	241 825	260 901	275 176	308 661	273 609	285 289	290 006	298 526	265 048	285 326

Table 5.3.2: Number of passengers (excluding transit passengers)

Airport	Financial year ending 31 March									
	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96
Domestic flights										
Bloemfontein	188 300	214 200	243 300	245 700	238 500	196 900	200 300	204 400	208 600	214 100
Cape Town	1 584 400	1 862 100	2 147 400	2 306 200	2 168 900	2 067 700	2 277 200	2 325 300	2 499 600	2 925 300
Durban	1 293 100	1 491 500	1 778 400	1 893 000	1 751 300	1 616 800	1 753 900	1 767 400	1 734 300	1 973 200
East London	283 200	319 700	345 900	365 900	335 400	302 200	316 800	317 900	257 800	359 700
George	132 600	158 800	183 900	215 200	237 800	283 500	289 900	289 900	185 700	192 100
Johannesburg	2 705 900	3 169 900	3 740 400	3 915 200	3 533 100	3 425 200	3 639 600	3 645 400	3 829 700	4 461 000
Kimberley	80 700	95 300	111 900	116 900	103 600	91 300	84 700	81 500	69 200	77 900
Port Elizabeth	536 300	610 600	698 500	761 800	714 100	636 300	675 700	646 400	633 600	717 100
Uptington	35 400	38 000	38 200	39 900	38 200	32 400	27 700	26 700	21 400	19 100
Total	6 839 900	7 960 100	9 287 900	9 859 800	9 120 900	8 652 300	9 265 800	9 304 900	9 439 900	10 939 500
International flights										
Bloemfontein	900	1 500	1 600	400	400	100	100	100	-	6 900
Cape Town	29 100	35 500	44 500	103 000	127 900	135 700	197 500	295 200	429 000	590 400
Durban	60 300	69 600	68 100	85 500	88 000	94 400	106 100	147 400	144 500	157 400
Johannesburg	1 473 100	1 589 400	1 625 900	1 895 900	1 943 000	2 035 000	2 454 100	2 762 500	2 916 000	3 270 700
Total	1 563 400	1 696 000	1 740 100	2 084 800	2 159 300	2 265 200	2 757 800	3 205 200	3 489 500	4 025 400
Total: All flights										
Bloemfontein	189 200	215 700	244 900	246 100	238 900	197 000	200 400	204 500	208 600	221 000
Cape Town	1 613 100	1 897 600	2 191 900	2 409 200	2 298 800	2 203 400	2 474 700	2 620 500	2 928 600	3 515 700
Durban	1 353 400	1 561 100	1 846 500	1 978 500	1 839 300	1 711 200	1 860 000	1 914 800	1 878 800	2 130 600
East London	283 200	319 700	345 900	365 900	335 400	302 200	316 800	317 900	257 800	359 700
George	132 600	158 800	183 900	215 200	237 800	283 500	289 900	289 900	185 700	192 100
Johannesburg	4 179 000	4 759 300	5 366 300	5 811 100	5 476 100	5 460 200	6 093 700	6 407 900	6 745 700	7 731 300
Kimberley	80 700	95 300	111 900	116 900	103 600	91 300	84 700	81 500	69 200	77 900
Port Elizabeth	536 300	610 600	698 500	761 800	714 100	636 300	675 700	646 400	633 600	717 100
Uptington	35 400	38 000	38 200	39 900	38 200	32 400	27 700	26 700	21 400	19 100
Total	8 402 900	9 656 100	11 028 000	11 944 600	11 280 200	10 917 500	12 023 600	12 510 100	12 929 400	14 964 500

Table 5.3.3: Cargo traffic including mail and excess baggage (tons)

Airport	Financial year ending 31 March									
	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96
Domestic flights										
Bloemfontein	958	693	639	2 047	1 656	964	1 016	1 381	1 226	1 142
Cape Town	27 166	30 745	31 420	34 743	32 442	26 062	23 263	19 709	26 662	22 605
Durban	13 379	15 255	16 104	21 627	22 476	16 286	14 109	13 108	14 877	12 778
East London	4 106	5 790	5 443	3 390	3 859	3 126	2 925	2 961	2 424	1 654
George	1 126	1 329	1 431	1 583	1 587	1 350	1 333	1 384	972	756
Johannesburg	38 853	47 360	47 511	59 854	52 860	52 810	48 856	46 357	46 508	41 870
Kimberley	762	933	944	770	518	401	446	671	411	324
Port Elizabeth	6 534	8 743	9 163	8 059	8 797	6 259	5 401	5 651	6 182	5 383
Upington	339	964	322	225	135	128	135	177	10	-
Total	93 223	111 812	112 977	132 298	124 330	107 386	97 484	91 399	99 272	86 512
International flights										
Bloemfontein	900	1 500	1 600	400	-	-	-	-	-	-
Cape Town	233	335	240	229	431	556	1 790	2 711	2 386	2 219
Durban	507	382	422	653	980	1 083	1 599	2 554	1 104	799
Johannesburg	85 551	92 787	91 414	82 295	79 755	91 353	112 807	114 645	105 856	103 705
Total	87 191	95 004	93 676	83 577	81 166	92 982	116 196	119 910	109 346	106 723
Total: All flights										
Bloemfontein	1 858	2 193	2 239	2 447	1 656	964	1 016	1 381	1 226	1 142
Cape Town	27 399	31 080	31 660	34 972	32 873	26 618	25 053	22 420	29 048	24 824
Durban	13 886	15 637	16 526	22 280	23 456	17 369	15 708	15 662	15 981	13 577
East London	4 106	6 790	5 443	3 390	3 859	3 126	2 925	2 961	2 424	1 654
George	1 126	1 329	1 431	1 583	1 587	1 350	1 333	1 384	972	756
Johannesburg	124 404	140 147	138 925	142 149	132 615	144 345	161 663	161 002	152 364	145 575
Kimberley	762	933	944	770	518	401	446	671	411	324
Port Elizabeth	6 534	8 743	9 163	8 059	8 797	6 259	5 401	5 651	6 128	5 383
Upington	339	964	322	225	135	128	135	177	10	-
Total	180 414	207 816	206 653	215 875	205 496	200 560	213 680	211 309	208 564	193 235

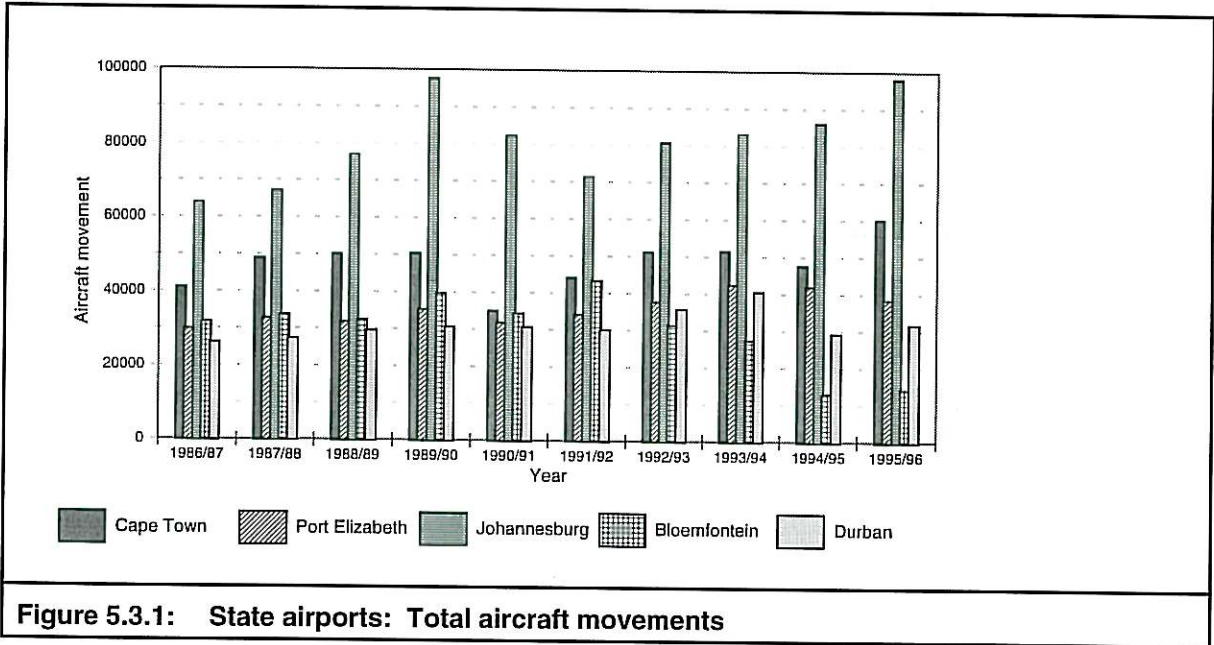


Figure 5.3.1: State airports: Total aircraft movements

5.4 AIRPORTS: NON-STATE AIRPORTS

Table 5.4.1: Total aircraft movements

Airport	Financial year ending 31 March										
	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	
Alexander Bay	2 294	2 470	2 451	3 350	2 620	3 021	3 460	2 872	2 812	3 120	
Lanseria	108 894	132 146	130 400	139 835	132 166	102 809	85 959	88 718	63 076	43 079	
Nelspruit	-	-	-	-	-	-	-	-	19 999	17 860	
Pietermaritzburg	-	-	-	-	-	-	-	23 746	15 384	12 364 3 289	
Phalaborwa	5 743	4 855	4 918	6 051	3 697	4 399	4 847	3 746	5 643	25 100	
Rand Airport (Germiston)	74 858	78 641	97 140	112 009	99 563	99 343	88 234	84 307	41 179	15 598 2	
Virginia (Durban)	47 954	52 696	53 183	57 980	56 088	56 321	45 650	48 854	22 474	952	
Welkom	7 371	9 763	9 647	9 110	10 602	7 216	6 637	6 399	3 336	21 649	
Wonderboom (Pretoria)	60 828	64 058	73 895	77 935	86 402	85 104	60 594	58 059	31 801	-	
Total	307 942	344 629	371 634	406 270	391 138	358 213	295 381	316 700	205 704	144 831	

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Table 5.4.2: Total number of passengers (excluding transit passengers)

Airport	Financial year ending 31 March										
	1986/87	1987/88	1988/89	1989/90	1990/91	1991/92	1992/93	1993/94	1994/95	1995/96	
Alexander Bay	29 253	32 225	35 236	45 040	23 716	27 067	31 721	14 142	-	-	
Lanseria	234 955	275 334	253 732	221 036	196 653	209 186	186 596	149 719	-	-	
Pietermaritzburg	-	-	-	-	-	-	-	44 795	-	-	
Phalaborwa ¹	38 196	34 949	31 687	34 211	34 617	21 279	23 967	18 953	-	-	
Rand Airport (Germiston)	41 640	51 308	53 208	52 258	49 602	51 594	59 831	-	-	-	
Virginia (Durban) ¹	-	-	-	-	-	-	-	-	-	-	
Welkom	30 000	40 100	39 107	27 827	36 758	38 448	-	-	-	-	
Wonderboom (Pretoria)	23 091	31 224	25 068	17 156	12 683	10 916	8 235	13 528	-	-	
	34 193	37 662	47 657	55 093	60 862	68 626	63 786	34 297	-	-	
Total	431 328	502 802	485 695	452 621	414 891	427 116	374 136	275 434	-	-	

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¹ Virginia and Phalaborwa figures are estimates.

31 March	Public	Private	Helistops	Total
1986	154	114	47	315
1987	156	110	47	313
1988	154	107	51	312
1989	154	107	54	315
1990	155	105	55	315
1991	200	105	60	365
1992	155	50	170	375
1993	153	48	172	373
1994	121	74	180	375

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¹ Excluding the nine state airports.

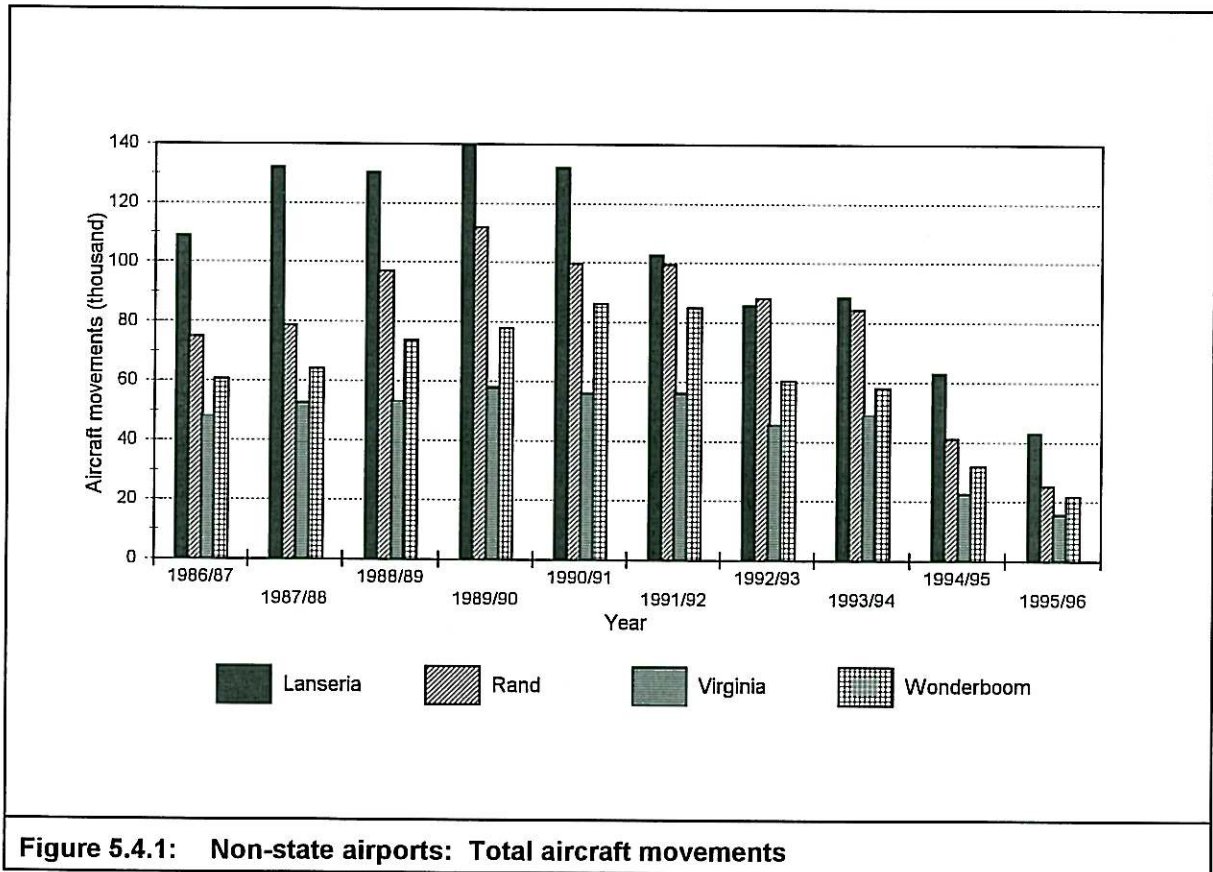


Figure 5.4.1: Non-state airports: Total aircraft movements

5.5 LICENCES, TRAINING AND REGISTRATION

Table 5.5.1: Aircrew licences and rating as valid on 31 March

Type of licence	31 March									
	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995
Student pilot	789	1 251	839	894	1 212	1 336	1 162	1 374	1 350	1 777
Private pilot	3 827	4 276	4 007	4 187	4 770	5 614	4 949	5 124	4 949	5 871
Commercial pilot	698	766	758	818	1 051	1 267	1 281	1 353	1 228	1 442
Senior commercial pilot	36	35	40	43	51	63	44	44	-	-
Airline transport pilot	591	667	663	753	892	1 044	1 072	1 110	1 115	1 299
Flight navigator	14	20	14	111	115	120	-	-	-	-
Flight engineer	254	268	260	266	270	278	459	490	468	-
Rating:										
Flight instructor										
Grade I	76	117	88	100	126	135	135	132	139	159
Grade II	202	265	250	310	360	442	473	488	486	488
Grade III	86	133	98	122	168	240	207	216	220	136
Instrument	1 599	1 160	2 393	3 622	4 853	4 235	2 261	2 328	2 446	2 175

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Table 5.5.2: Register of civil aircraft ¹

Type of aircraft	31 March						
	1990	1991	1992	1993	1994	1995	1996
Piston engines	2 970	3 080	2 961	2 961	2 959	2 981	3 000
Turboprop	200	208	218	199	237	259	268
Turbojet	84	80	91	103	112	135	137
Helicopters	284	303	331	343	362	404	410
Gliders	278	283	275	279	280	285	284
Motorised gliders	40	44	44	47	48	48	49
Amateur aeroplane	264	271	288	309	328	359	348
Amateur rotorcraft	38	33	47	49	51	52	-
Gyrocopter	-	-	-	21	31	39	40
Microlight	488	956	1 077	1 133	1 207	1 376	1 401
Gyroglider	2	2	2	1	1	1	1
Aeroplane turbojet	-	-	-	1	1	2	2
Research	4	3	3	3	5	5	5
Limited aircraft	-	-	-	51	53	77	79
Hot air balloon	36	45	48	55	54	63	64
Veteran ¹	59	59	64	72	77	82	84
Paraplanes	-	-	-	14	14	14	14
Total	4 747	5 367	5 449	5 641	5 820	6 182	6 186

Department of Transport: Annual Report

¹ Includes gliders, amateur rotorcraft, balloons, research and microlight aircraft.

5.6 ACCIDENTS

	Year								
	1986	1987	1988	1989	1990	1991	1992	1993	1994
Accidents in which fatalities occurred	5	10	14	8	10	19	19	13	16
Fatalities	12	173	53	15	26	41	33+	26	32
Total number of accidents	103	114	131	143	150	173	177	187	167

Department of Transport

Phases of flight	Year									
	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994
Stationary	1	1	2	3	3	-	5	1	2	4
Taxiing	4	9	8	4	3	3	5	7	4	2
Take-off	18	27	13	25	16	11	20	19	13	14
Climb	5	5	6	1	4	4	6	2	-	3
Cruise	20	12	8	6	13	13	4	10	6	14
Approach	3	6	4	7	10	10	4	4	-	7
Landing	48	66	40	45	43	47	63	68	25	73
Forced landing	17	18	14	21	14	16	33	23	13	45
Precautionary	-	5	3	6	2	3	2	4	1	3
landing	2	2	3	2	7	-	7	6	1	1
Hovering	-	-	-	-	-	-	-	1	-	1
Going around										
Total	118	151	101	120	115	107	149	145	65	167

Department of Transport

¹ Number of accidents the investigation of which was completed by 31 March the following year.

Table 5.6.3: Broad categories of causes

Factor	Year									
	1986	1987	1988	1989	1990	1991	1992	1993	1994	
Pilot	108	68	82	79	90	109	105	45	124	
Maintenance staff	8	3	2	2	7	1	2	2	4	
Airport staff	-	-	-	-	-	1	-	-	-	
Landing gear components	10	5	9	8	3	7	17	8	17	
Powerplant or propellers	9	8	11	10	3	18	9	4	12	
Systems	3	1	-	2	1	3	5	-	4	
Airport and facilities	-	-	-	-	-	1	-	-	-	
Airport or terrain conditions	6	7	2	7	2	2	2	4	-	
Weather	-	-	-	-	-	-	4	1	3	
Miscellaneous	7	9	14	5	1	7	1	1	2	

Department of Transport

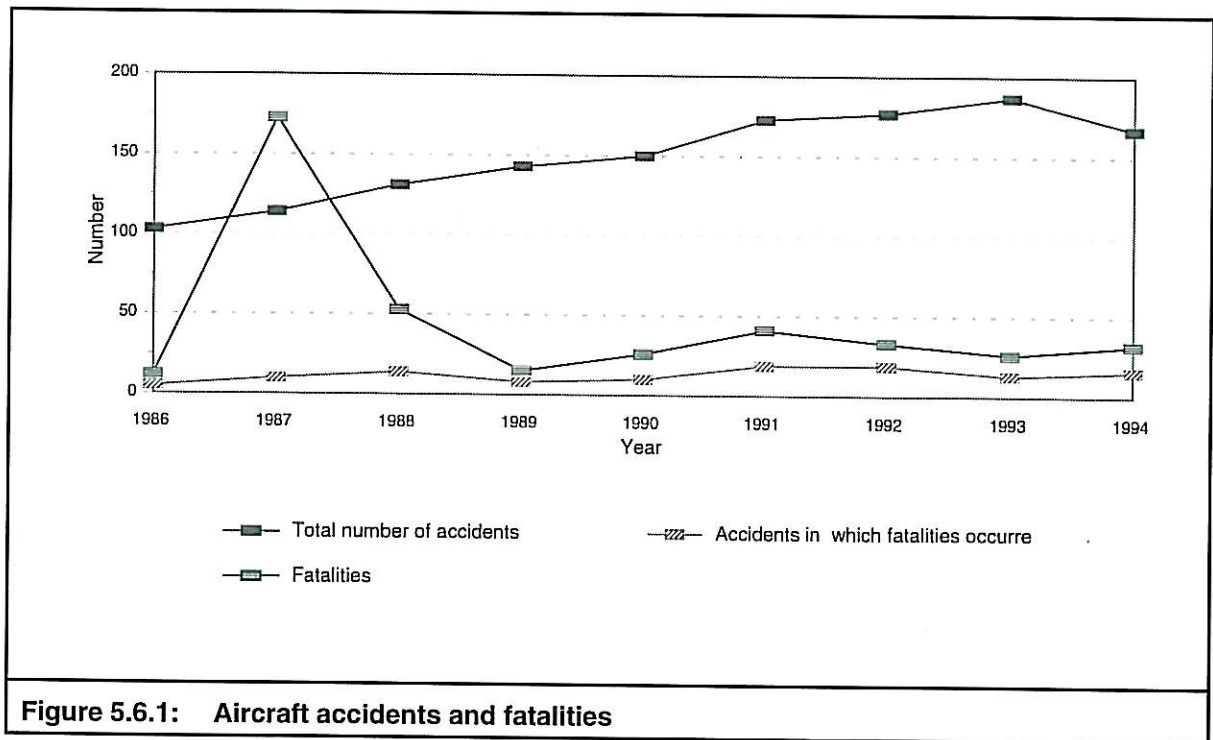


Figure 5.6.1: Aircraft accidents and fatalities

6 Pipelines and petroleum products

Table 6.1: Volumes transported by pipelines¹ (cubic metres)				
Year	White products²	AVTUR³	Crude oil	Total
1990/91	8 622 837	495 171	4 232 732	13 350 740
1991/92	8 624 819	531 426	6 500 626	15 656 871
1992/93	8 523 208	603 177	4 734 789	13 861 174
1993/94	8 520 831	571 723	4 117 406	13 209 960
1994/95	9 231 692	637 418	4 447 455	14 316 565
1995/96	11 170 000	788 700	5 202 000	17 160 700

Petronet

¹ There are 3 000 km of pipelines in the RSA.

² Includes petrol, diesel and leaded fuel. Excludes unleaded fuel.

³ AVTUR = Aviation turbine fuel.

Table 6.2: Wholesale trade sales of petroleum products in the RSA by type of product

Product and market group	Units	1994	1995	1996
Fuel				
Petroleum: Total	kl	9 629 226	10 153 360	9 716 775
97 Octane	kl	..	3 558 821	3 970 797
93 Octane	kl	..	6 394 028	5 734 328
87 Octane	kl	..	200 511	11 650
Aviation fuel: Total	kl	1 223 712	1 394 372	1 634 451
Afgas	kl	26 546	26 063	25 155
Jet fuel	kl	1 197 166	1 368 309	1 609 296
Power paraffin	kl	18 528	17 642	15 013
Illuminating paraffin	kl	861 486	849 752	916 552
Liquid petroleum gas	t	..	279 172	280 906
Diesel oil				
Automotive diesel oil: Total	kl	5 513 104	5 838 615	6 167 632
On-shore sales	kl	5 121 913	5 434 233	..
International marine	kl	391 191	404 382	..
Industrial diesel	kl	144 723	370 170	192 394
On-shore sales	kl	44 515	41 474	..
International marine	kl	100 208	328 696	..
Heavy furnace oil: Total	kl	2 886 054	3 435 900	3 571 801
On-shore sales	kl	609 269	615 939	..
International marine	kl	2 276 785	2 819 961	..
Lubricants				
Automotive oil	kl	..	197 887	203 418
Industrial oil	kl	..	143 208	139 999
Extracts and process oil	kl	..	27 208	32 517
Automotive grease	t	..	4 447	4 327
Industrial grease	t	..	9 155	9 069
Other petroleum products				
Solvents	kl	91 781	95 529	144 486
Bitumen	t	257 423	258 949	272 159
Petroleum	t	..	12 524	15 022
Paraffin wax	t	..	16 634	18 509

kl = kilolitres
t = Metric tons

Central Statistical Service

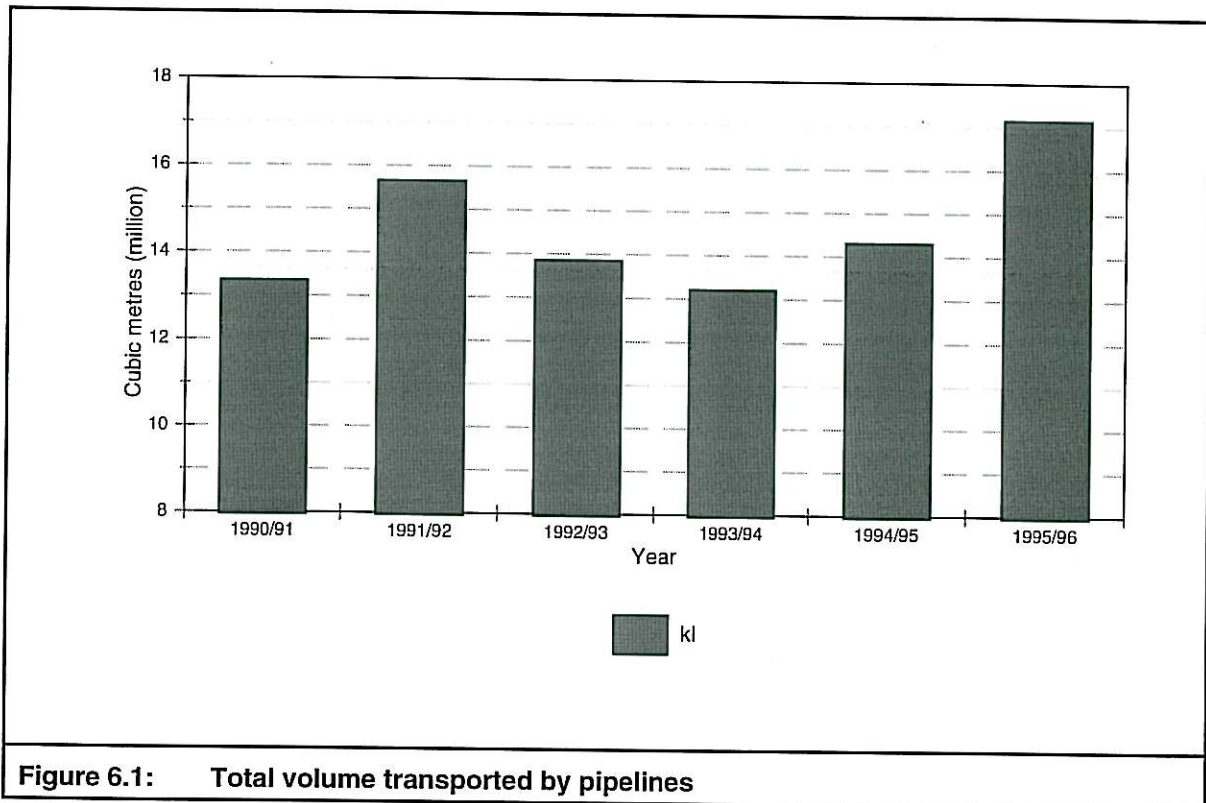


Figure 6.1: Total volume transported by pipelines

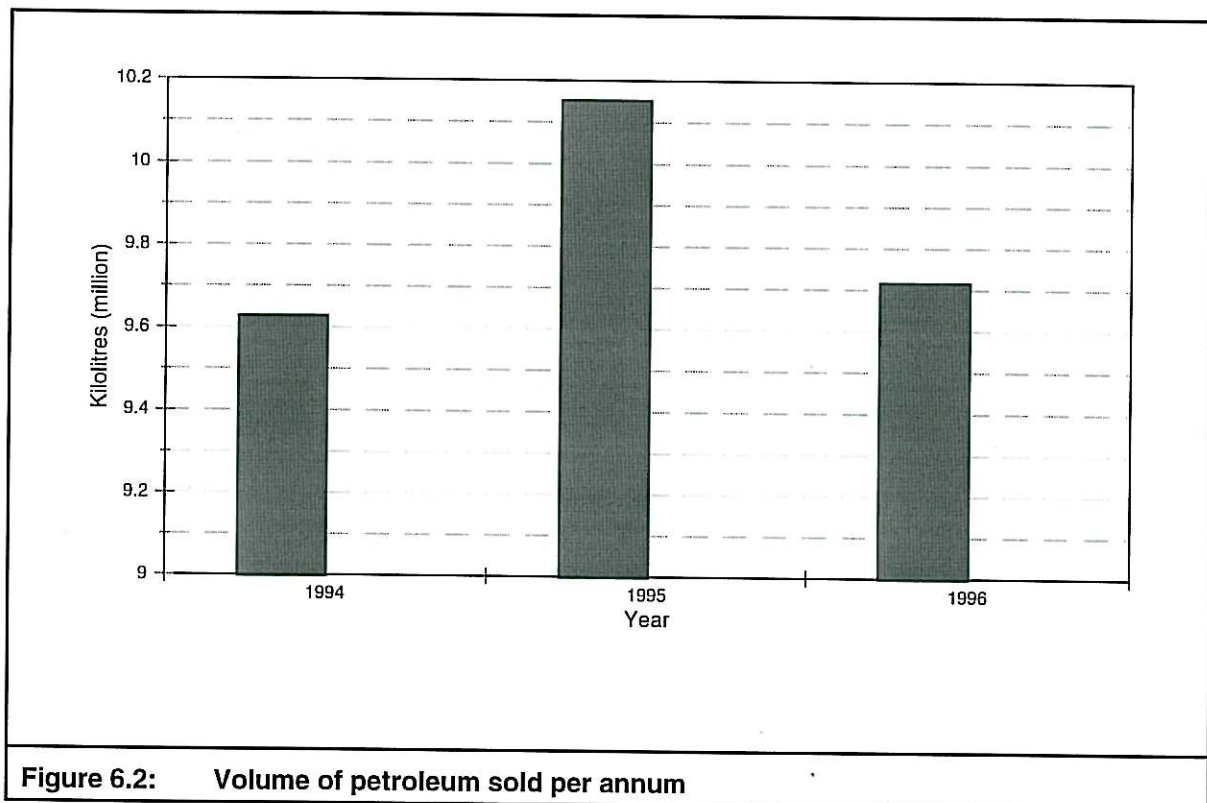


Figure 6.2: Volume of petroleum sold per annum

7 International comparisons

NOTE: The statistics concerning South Africa are reported as they appeared in the source listed.

Table 7.1: Demographic statistics

Country	Population ¹ (million)				Area: 1993 (km ²)	Density (persons per km ²)
	1990	1991	1992	1993			1994
Africa						
Algeria ²	25,01	25,53	26,13	26,72	27,32	11
Angola ²	10,02	9,52	10,61	10,28	10,67	9
Botswana ²	1,30	1,35	1,39	1,44	1,44	2
Egypt ²	52,69	53,92	55,16	56,49	58,33	58
Ghana ²	15,02	15,48	15,96	16,45	16,94	71
Kenya ²	24,03	25,91	25,70	28,11	29,29	50
Lesotho ²	1,79	1,84	1,89	1,94	2,00	66
Madagascar ²	11,20	11,49	13,42	13,85	14,30	24
Malawi ²	8,29	8,56	8,82	9,13	9,6	80
Mozambique ²	14,15	14,42	14,79	15,58	16,61	21
Namibia ²	1,35	1,38	1,42	1,46	1,50	2
Nigeria ²	96,15	99,09	102,13	105,26	108,47	117
South Africa	30,58	38,01	38,82	39,63	40,44	33
Swaziland	0,77	0,80	0,83	0,85	0,88	51
Tanzania	25,64	..	..	..	27,99	30
Zaire ²	35,56	36,67	39,94	41,23	42,55	18
Zambia ²	8,07	8,41	8,67	8,94	9,20	12
Zimbabwe ²	9,37	10,1	10,47	10,78	11,15	29
America						
Argentina ²	32,55	32,97	33,37	33,67	34,18	12
Brazil ²	144,72	147,07	149,36	151,57	153,74	18
Canada	26,58	28,12	28,43	28,94	29,25	3
Chile	13,17	13,39	13,60	13,81	13,99	18
Columbia ²	32,30	32,84	33,39	33,95	34,52	30
Cuba ²	10,62	10,74	10,83	10,90	10,96	99
Mexico ²	86,15	87,84	89,54	91,21	93,01	48
Peru ²	21,55	22,00	22,40	22,64	23,09	18
USA	249,91	252,64	255,41	258,12	260,65	29
Uruguay	3,09	3,11	3,13	3,15	3,16	18
Venezuela	19,33	19,79	20,25	20,71	21,18	23

Table 7.1 (continued): Demographic statistics

Country	Population ¹ (million)					Area: 1993 (km ²)	Density (persons per km ²)
	1990	1991	1992	1993	1994		
Asia							
China ²	1 155,30	1 170,10	1 183,60	1 196,40	1 208,80	9 596 961	126
Hong Kong ²	5,70	5,75	5,81	5,92	6,06	1 075	5 637
India	834,70	851,66	867,82	883,91	918,57	3 287 590	279
Israel	4,66	4,95	5,12	5,26	5,38	21 056	256
Japan	123,54	123,29	124,32	124,67	124,69	377 801	331
Malaysia ²	17,76	18,18	18,61	19,06	19,49	329 758	59
Pakistan ²	112,03	115,52	119,11	12,80	126,61	796 095	159
Singapore	2,71	2,76	2,82	2,87	2,93	618	4 741
Europe							
Austria	7,79	7,84	7,88	7,99	8,03	83 853	96
Belgium	9,97	9,98	10,05	10,08	10,08	30 519	330
Finland	4,99	5,01	5,04	5,07	5,09	338 145	15
France	56,73	57,05	57,37	57,66	57,75	551 500	105
Germany	79,36	79,98	80,57	81,19	81,41	356 733	228
Greece	10,09	10,20	10,31	10,35	10,43	131 990	79
Ireland	3,50	3,52	3,55	3,56	3,57	70 284	51
Italy	57,66	56,76	56,86	57,07	57,19	301 268	190
Netherlands ²	14,95	15,07	15,18	15,29	15,33	40 844	377
Norway	4,24	4,26	4,29	4,31	4,32	323 877	13
Portugal	9,90	9,87	9,86	9,88	9,83	92 389	106
Spain ²	38,84	38,92	39,01	39,08	39,19	505 992	77
Sweden	8,16	8,62	8,67	8,72	8,79	449 964	20
Switzerland	6,71	6,80	6,88	6,94	6,99	41 293	169
United Kingdom	57,56	57,81	58,01	58,19	58,09	244 100	238
Oceania							
Australia	17,06	17,28	17,49	17,66	17,84	7 713 64	2
New Zealand	3,36	3,41	3,44	3,45	3,49	270 534	13
Totals							
Southern Africa	41	..	..	45	..	2 675 000	17 ³
Africa	633	..	..	689	..	30 306 000	23 ³
North America	278	..	..	287	..	21 517 000	13 ³
Latin America	440	..	..	465	..	20 533 000	23 ³
Asia	3 186	..	..	3 350	..	31 764 000	105 ³
Europe	722	..	..	726	..	22 986 000	32 ³
Oceania	26	..	..	27	..	8 537 000	3 ³
World total	5 285	5 385	5 480	5 544	..	135 641 000	41 ²

Monthly Bulletin of Statistics, October 1995 and United Nations Statistical Yearbook 1993, United Nations

¹ Mid-year estimates.² Estimates of questionable reliability.³ 1993 Estimates.

Table 7.2: Gross Domestic Products (GDP) in US dollars¹

Country	GDP at constant 1990 prices (million)				GDP per capita (1990 prices)				Growth rates (%)									
	1992		1993		1994		1992		1993		1994		1992		1993		1994	
	1992	1993	1994	1992	1993	1994	1992	1993	1994	1992	1993	1994	1992	1993	1994	1992	1993	1994
Africa																		
Algeria	48 578	49 402	50 464	1 859,09	1 848,88	1 847,14	2,6	1,7	2,2									
Angola	10 466	7 849	8 524	986,43	763,52	798,88	3,3	-25,0	8,6									
Botswana	3 817	3 804	3 959	2 746,04	2 641,67	2 749,31	6,5	-0,3	4,1									
Egypt	47 263	48 114	48 691	856,83	851,73	834,75	4,0	1,8	1,2									
Ghana	6 812	7 138	7 710	426,82	433,92	455,14	3,9	4,8	8,0									
Kenya	8 587	8 676	9 016	334,12	308,64	307,82	-0,8	1,0	3,9									
Lesotho	661	693	684	349,74	357,22	342,00	1,4	5,0	-1,4									
Madagascar	2 920	2 981	2 979	217,59	215,23	208,32	1,2	2,1	2,1									
Malawi	2 099	2 305	2 079	237,98	252,46	216,56	-8,7	9,8	-9,8									
Mozambique	1 510	1 644	1 676	102,10	105,52	100,90	-0,9	8,8	2,0									
Namibia	2 503	2 585	2 773	1 762,68	1 770,55	1 848,67	3,5	3,3	7,3									
Nigeria	34 994	35 790	36 269	342,64	340,02	334,37	3,0	2,3	1,3									
South Africa	99 602	100 697	102 812	2 565,74	2 540,93	2 542,33	-2,1	1,1	2,1									
Swaziland	968	946	949	1 166,27	1 112,94	1 078,41	1,9	-2,2	0,3									
Tanzania	2 550	2 656	2 737	..	..	97,78	3,5	4,2	3,0							
Zaire	0	0	0	0,00	0,00	0,00	-10,4	-16,2	-7,6									
Zambia	3 817	4 073	4 114	440,25	455,59	447,17	-4,5	6,7	1,0									
Zimbabwe	6 586	6 724	7 033	629,04	623,75	630,76	-7,7	2,1	4,6									
America																		
Argentina	167 270	177 361	190 523	5 012,59	5 267,63	5 574,11	8,7	6,0	7,4									
Brazil	475 524	495 167	523 392	3 183,74	3 266,92	3 404,40	-0,8	4,1	5,7									
Canada	562 472	573 287	599 578	19 784,45	19 609,50	20 498,39	0,8	1,9	4,6									
Chile	35 539	37 778	39 365	2 613,16	2 735,55	2 813,80	10,3	6,3	4,2									
Columbia	42 654	44 018	46 145	1 277,45	1 296,55	1 336,76	3,8	3,2	4,8									
Cuba	16 483	14 031	14 131	1 521,98	1 287,25	1 289,32	-11,6	-14,9	0,7									
Mexico	259 971	261 545	270 699	2 903,41	2 867,50	2 910,43	2,8	0,6	3,5									
Peru	36 231	38 593	42 436	1 617,46	1 704,64	1 837,85	-2,5	6,5	10,0									
USA	5 599 509	5 790 925	6 027 216	21 923,61	22 435,01	23 123,79	2,6	3,4	4,1									
Uruguay	9 191	9 435	8 496	2 936,42	2 995,24	2 688,61	8,0	2,7	-10,0									
Venezuela	56 558	56 330	54 488	2 792,99	2 719,94	2 572,62	6,1	-0,4	-3,3									

Table 7.2 (continued): Gross Domestic Products (GDP) in US dollars¹

Country	GDP at constant 1990 prices (million)				GDP per capita (1990 prices)				Growth rates (%)					
	1992		1993		1992		1993		1992		1993		1994	
	1992	1993	1994	1994	1992	1993	1994	1994	1992	1993	1994	1992	1993	1994
Asia														
China	483 570	548 852	613 617	408,56	458,75	507,62	14,2	13,5	11,8					
Hong Kong	83 488	88 366	93 223	14 369,71	14 926,69	15 383,33	6,3	5,8	5,5					
India	321 596	332 765	349 071	370,58	376,47	380,02	4,6	3,5	4,9					
Israel	63 177	65 571	69 831	12 339,26	12 465,97	12 979,74	7,3	3,8	6,5					
Japan	3 090 646	3 084 349	3 152 205	24 860,41	24 740,11	25 280,34	1,1	-0,2	2,2					
Malaysia	50 160	54 424	58 941	2 695,33	2 855,40	3 024,17	7,8	8,5	8,3					
Pakistan	51 673	53 761	55 535	433,83	437,79	438,63	1,9	4,0	3,3					
Singapore	41 290	45 396	49 979	14 641,84	15 817,42	17 057,68	6,0	9,9	10,1					
Europe														
Austria	166 110	166 011	170 558	21 079,95	20 777,35	21 240,10	1,9	-0,1	2,7					
Belgium	200 166	196 753	201 125	19 917,01	19 519,15	19 952,88	1,9	-1,7	2,2					
Finland	120 832	118 905	123 720	23 974,60	23 452,66	24 306,48	-3,6	-1,6	4,1					
France	1 219 247	1 206 990	1 241 147	21 252,34	20 932,88	21 491,72	1,2	-1,0	2,8					
Germany	1 737 488	1 717 947	1 767 217	21 564,95	21 159,59	21 707,62	2,2	-1,1	2,9					
Greece	69 275	69 661	70 897	6 719,20	6 730,53	6 797,41	0,8	0,6	1,8					
Ireland	48 411	50 336	53 727	13 636,90	14 139,33	15 049,58	5,0	4,0	6,7					
Italy	1 116 559	1 109 151	1 134 661	19 636,99	19 434,92	19 840,20	0,8	-0,7	2,3					
Netherlands	1 523	1 564	1 588	100,33	102,29	100,32	1,8	2,7	1,5					
Norway	110 804	114 475	120 358	25 828,44	26 560,32	27 860,65	3,4	3,3	5,1					
Portugal	69 424	68 590	69 276	7 040,97	6 942,31	7 047,41	1,1	-1,2	1,0					
Spain	506 451	500 854	510 763	12 982,59	12 816,12	13 032,99	0,7	-1,1	2,0					
Sweden	223 961	218 214	222 951	25 831,72	25 024,54	25 364,16	-1,4	-2,6	2,2					
Switzerland	225 272	223 345	226 007	32 743,02	32 182,28	32 332,90	-0,3	-0,9	1,2					
United Kingdom	951 343	970 627	1 007 945	16 399,64	16 709,02	17 351,44	-0,5	2,0	3,8					
Oceania														
Australia	306 567	319 593	335 527	17 528,13	18 097,00	18 807,57	3,2	4,3	5,0					
New Zealand	44 321	46 680	48 132	12 884,01	13 530,43	13 791,40	3,0	5,3	3,1					

Statistical Yearbook, United Nations

¹ The table is designed to facilitate international comparisons of levels of income generated in production. National currency data are converted into US dollars using average market rates of official exchange rates when the former are not available. This conversion, however, introduces deficiencies of comparability over time and between countries. This should be taken into account when using the data.

Table 7.3: Motor vehicles in use ¹

Country	Cars (thousand)				Commercial vehicles (thousand)			
	1991	1992	1993	1994	1991	1992	1993	1994
	Africa							
Algeria	725,0	725,0	725,0	..	480,0	480,0	480,0	..
Angola	122,0	122,0	122,0	..	41,0	42,2	42,9	..
Botswana	21,5	23,8	26,8	27,6	63,0	66,7	74,2	81,9
Egypt	1 081,0	1 117,0	1 143,0	1 225,0	389,0	408,0	422,0	445,0
Ghana	90,0	90,0	90,0	..	43,0	44,2	44,7	..
Kenya	163,5	165,4	171,5	..	150,1	168,4	172,8	..
Lesotho	..	..	..	..	..	..	..	..
Madagascar	47,0	47,0	..	..	33,0	33,3	..	..
Malawi	6,6	5,3	..	..	2,7	2,7	..	..
Mozambique	84,0	84,0	84,0	..	26,0	26,2	26,8	..
Namibia	..	..	..	..	..	..	..	..
Nigeria	144,6	185,5	189,2	227,0	17,7	20,6	23,1	22,3
South Africa	3 698,2	3 799,2	3 488,6	..	1 519,9	1 551,4	1 784,9	..
Swaziland	21,3	22,0	..	..	15,9	16,0	..	..
Tanzania	44,0	44,0	44,0	..	55,0	57,2	59,9	..
Zaire	..	..	..	..	..	..	..	..
Zambia	96,0	96,0	96,0	..	68,0	68,0	68,0	..
Zimbabwe	300,0	310,0	..	..	85,0	88,0	..	..
America								
Argentina	4 405,0	4 809,0	4 856,0	4 427,0	1 554,0	1 648,0	1 664,0	1 239,0
Brazil	12 128,0	7 855,5	8 098,4	..	1 075,0	1 170,8	1 839,0	..
Canada	13 061,1	13 322,5	31 477,9	13 639,4	3 679,8	3 688,4	3 712,4	3 764,9
Chile	765,5	826,8	896,5	914,0	192,0	198,8	211,0	208,3
Columbia	715,0	715,0	761,7	..	665,0	665,0	672,6	..
Cuba	..	..	..	..	..	..	..	..
Mexico	7 497,1	7 749,6	8 172,4	8 451,1	3 501,0	3 505,7	3 560,0	3 839,4
Peru	379,1	402,4	418,6	444,2	244,9	270,6	288,8	316,6
USA	142 955,6	144 231,4	146 214,2	147 171,0	45 416,3	46 148,8	47 749,1	48 298,0
Uruguay	389,6	418,0	425,6	..	48,6	45,0	44,4	..
Venezuela	1 540,0	1 566,0	1 579,0	..	449,0	456,0	460,0	..

Table 7.3 (continued): Motor vehicles in use ¹

Country	Cars (thousand)				Commercial vehicles (thousand)			
	1991	1992	1993	1994	1991	1992	1993	1994
	Asia							
China	..	..	..	..	..	..	..	..
Hong Kong	229,3	254,6	277,3	297,3	134,4	135,6	137,0	137,0
India	2 954,0	3 205,0	3 330,0	..	2 396,7	..	..	..
Israel	857,4	932,4	988,6	1 057,5	174,1	195,0	217,1	251,7
Japan	37 076,0	38 964,0	40 772,0	42 679,0	21 575,0	21 383,0	21 132,0	20 916,0
Malaysia	2 024,8	2 158,2	2 298,8	2 333,0	446,8	447,7	502,7	422,0
Pakistan	746,1	855,4	916,1	955,1	279,8	310,8	332,4	359,5
Singapore	300,1	302,8	321,9	340,6	130,1	131,5	135,2	136,8
Europe								
Austria	3 100,0	3 244,9	3 367,6	3 479,6	657,6	674,6	685,7	698,2
Belgium	3 934,0	3 991,6	4 079,5	4 208,1	414,3	420,0	427,7	444,4
Finland	1 922,5	1 936,3	1 872,9	1 872,6	273,4	271,2	261,4	257,5
France	23 810,0	24 020,0	24 385,0	24 900,0	3 922,0	4 099,0	4 036,0	4 027,0
Germany	37 621,7	39 007,0	39 152,0	39 765,4	2 985,8	2 834,6	3 326,0	3 150,7
Greece	1 777,5	1 829,1	1 958,5	2 074,1	811,2	8 205,0	848,9	849,1
Ireland	843,2	865,4	898,3	947,2	155,2	152,0	142,9	143,9
Italy	28 519,0	29 497,0	29 497,0	29 600,0	2 529,6	2 763,0	2 663,0	2 745,5
Netherlands	5 569,1	5 658,3	5 755,4	5 883,9	604,6	644,9	679,2	687,3
Norway	1 614,6	1 619,4	1 633,0	1 653,7	334,3	341,6	352,5	366,3
Portugal	2 774,7	3 049,8	3 295,1	3 532,0	881,2	964,0	1 050,1	1 158,6
Spain	12 537,1	13 102,3	13 440,7	13 733,8	2 615,0	2 773,4	2 859,6	2 952,8
Sweden	3 619,4	3 586,7	3 566,0	..	656,9	649,1	643,0	..
Switzerland	3 057,8	3 091,2	3 109,5	3 165,0	291,3	291,3	288,8	292,4
United Kingdom	21 515,0	20 973,0	21 291,0	21 740,0	2 436,0	3 008,0	2 990,0	2 994,0
Oceania								
Australia	7 734,1	7 913,2	8 050,0	8 209,0	1 915	2 041,3	2 043,0	2 151,0
New Zealand	1 548,1	1 551,4	1 571,8	1 611,8	309,6	317,8	332,3	353,0
World total	451 927,6	445 741,8	458 488,7	..	141 929,8	139 575,4	146 501,2	..

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¹ These statistics refer to the officially estimated number of vehicles. The time of year to which these figures refer is variable. Special-purpose vehicles such as two- or three-wheeled cycles, motorcycles, trams, trolley-buses, ambulances, military and police vehicles and those belonging to other governmental security organisations, are excluded. Passenger cars include vehicles seating not more than nine persons (including the driver) such as taxis, jeeps and station wagons. Commercial vehicles include vans, lorries (trucks), buses, tractors (horse) and semi-trailer combinations but exclude trailers and farm tractors.

Table 7.4: Road network (1995)						
Country	Motorways (km)	Highways, main or national roads (km)	Secondary or regional roads (km)	Other roads (km)	Total (km)	Percentage paved (km)
Africa						
Algeria	608	25 332	23 357	52 677	102 424	68,9
Angola	-	7 955	15 571	49 100	72 626	25,0
Botswana	-	-	-	-	11 800	14,2
Egypt	-	-	-	-	-	-
Ghana	21	5 020	9 620	22 900	37 561	24,9
Kenya	-	6 403	19 435	37 825	50 160	9,6
Lesotho	-	884	1 285	2 786	4 955	17,9
Madagascar	-	-	18 382	7 829	34 739	15,4
Malawi	-	3 290	2 790	21 800	27 800	18,4
Mozambique	-	4 480	8 330	17 000	29 810	18,6
Namibia	-	5 280	9 070	26 100	40 450	13,1
Nigeria	2 080	13 300	16 400	1 020	32 810	82,6
South Africa	2 480	56 100	124 000	-	182 580	32,8
Swaziland	-	1 360	1 640	825	3 825	-
Tanzania	-	10 300	17 800	60 000	88 100	4,2
Zaire	27	32 500	39 700	81 800	154 027	-
Zambia	58	6 790	23 300	23 300	38 898	18,3
Zimbabwe	-	5 710	11 600	74 500	91 810	19,0
America						
Argentina	600	36 500	179 000	1 590 000	1 939 000	9,2
Brazil	-	115 000	234 000	1 478 793	1 824 364	12,3
Canada	19 000	249 000	288 000	465 000	1 021 000	35,1
Chile	-	6 350	16 700	56 700	79 750	13,8
Columbia	-	-	-	-	27 100	55,8
Cuba	-	-	-	-	-	-
Mexico	5 920	45 600	63 000	135 000	249 520	37,3
Peru	-	-	-	-	71 400	10,9
USA	88 500	558 000	692 000	4 900 000	6 238 500	59,9
Uruguay	-	-	-	-	50 900	13,7
Venezuela	-	-	-	-	82 700	39,3

Table 7.4 (continued): Road network (1995)						
Country	Motorways (km)	Highways, main or national roads (km)	Secondary or regional roads (km)	Other roads (km)	Total (km)	Percentage paved (km)
Asia						
China	..	..	..	..	1 110 000	89,7
Hong Kong	..	..	..	..	1 717	100,0
India	..	34 600	1 140 000	835 000	2 009 600	50,1
Israel	..	..	..	..	..	..
Japan	5 860	57 500	121 000	960 000	1 144 360	74,0
Malaysia	575	15 400	43 000	35 000	93 975	75,0
Pakistan	-	6 587	1 102 113	99 764	216 564	53,0
Singapore	132	567	1 947	326	2 972	97,3
Europe						
Austria	1 596	10 244	20 183	98 000	200 000	100,0
Belgium	1 666	12 750	1 347	126 800	142 563	..
Finland	394	12 366	29 016	35 947	77 722	63,0
France	9 140	28 560	355 000	420 000	812 700	..
Germany	11 200	41 700	86 800	511 000	650 700	99,0
Greece	420	9 120	31 300	75 600	116 440	91,7
Ireland	70	5 260	10 600	76 500	92 430	94,0
Italy	..	..	..	..	..	..
Netherlands	2 300	2 100	8 525	107 875	120 800	90,0
Norway	105	26 452	27 133	36 676	90 261	73,5
Portugal	519	9 069	59 253	..	..	..
Spain	7 747	22 536	137 914	175 000	343 197	99,0
Sweden	1 231	14 645	83 263	38 325	136 233	76,0
Switzerland	1 540	18 318	51 197	..	71 055	..
United Kingdom	3 200	15 400	36 000	315 700	367 000	100,0
Oceania						
Australia	1 330	46 300	83 400	764 000	895 030	38,6
New Zealand	..	..	..	..	92 100	58,0

Table 7.5: Road traffic collisions (1995)			
Country	Number of collisions involving injury to persons	Number of injured	Number killed
Africa			
Algeria	..	..	..
Angola	..	..	..
Botswana	..	..	..
Egypt	..	..	..
Ghana	..	..	..
Kenya	..	..	..
Lesotho	..	..	..
Madagascar	715	823	25
Malawi	..	..	..
Mozambique	..	..	..
Namibia	..	..	..
Nigeria	..	..	..
South Africa	..	..	..
Swaziland	..	..	..
Tanzania	..	..	..
Zaire	..	..	..
Zambia	..	..	..
Zimbabwe	..	..	..
America			
Argentina	..	..	..
Brazil	..	..	..
Canada	..	..	..
Chile	..	..	..
Columbia	..	..	..
Cuba	..	..	..
Mexico	..	..	..
Peru	..	..	..
USA	..	..	..
Uruguay	..	..	..
Venezuela	..	..	..
Asia			
China	..	..	..
Hong Kong	14 812	19 613	260
India	..	..	..
Israel	..	..	..
Japan	..	..	..
Malaysia	162 491	46 440	5 712
Pakistan	59 727	16 465	7 371
Singapore	6 943	6 718	225
Europe			
Austria	38 956	51 974	1 216
Belgium	..	..	..
Finland	7 812	10 191	441
France	132 949	181 403	8 142
Germany	387 900	512 000	9 435
Greece	..	..	..
Ireland	1 057	1 631	24
Italy	..	..	..
Netherlands	11 437	10 210	1 227
Norway	8 492	11 586	305
Portugal	47 793	63 750	2 103
Spain	83 586	121 432	5 751
Sweden	15 626	21 173	572
Switzerland	23 030	28 759	692
United Kingdom	..	..	..
Oceania			
Australia	..	..	..
New Zealand	..	..	..

Table 7.6 (continued): Railways ¹

Country	Passenger kilometres (million)				Net-ton kilometres (million)			
	1991	1992	1993	1994	1991	1992	1993	1994
	Europe							
Austria	9 428	9 799	9 599	9 384	12 981	12 321	11 922	13 164
Belgium	6 771	6 798	6 694	6 638	8 153	8 074	7 568	8 084
Finland	3 230	3 057	3 007	3 037	7 634	7 848	9 259	9 949
France	62 300	62 980	58 430	58 930	51 480	50 400	45 900	49 740
Germany	57 034	57 240	58 003	61 327	82 220	72 848	66 646	71 814
Greece	1 995	2 004	1 726	1 399	606	563	523	325
Ireland	1 243	1 222	1 111	1 102	600	633	575	569
Italy	46 427	48 361	47 101	..	21 680	21 830	20 226	..
Netherlands	15 195	14 980	14 788	14 439	3 033	2 764	2 681	2 830
Norway	2 153	2 201	2 201	2 341	2 675	2 294	2 873	2 678
Portugal	5 692	5 494	5 397	5 149	1 784	1 767	1 786	1 826
Spain	16 353	17 422	16 486	16 139	10 808	9 582	8 132	9 047
Sweden	5 745	5 583	5 975	..	18 815	18 609	17 337	..
Switzerland	13 834	13 209	13 384	13 836	8 659	8 212	7 821	8 586
United Kingdom	32 466	31 718	30 363	28 656	15 300	15 550	13 765	12 979
Oceania								
Australia
New Zealand	2 364	2 475	2 629	2 992

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¹ The data refer to domestic and international traffic on all railway lines within each country, except railways entirely within an urban unit and plantation, industrial mining, funicular and cable railway. The passenger kilometres include all passengers except military, government and railway personnel when carried without revenue. The ton kilometres are freight net-ton kilometres and include both fast and ordinary goods services but exclude service traffic, mail, baggage and non-revenue governmental stores.

Table 7.7: Shipping ¹

Country	Vessels entered (thousand net registered tons)				Net-ton kilometres (thousand net registered tons)			
	1991	1992	1993	1994	1991	1992	1993	1994
	Africa							
Algeria	..	..	..	..	..	..	..	..
Angola	-	-	-	-	-	-	-	-
Botswana	-	-	-	-	-	-	-	-
Egypt	21 457	18 488	23 125	23 806	12 259	13 716	13 706	16 029
Ghana	-	-	-	-	-	-	-	-
Kenya	5 897	7 112	7 102	..	..	..	..	..
Lesotho	-	-	-	-	-	-	-	-
Madagascar	-	-	-	-	-	-	-	-
Malawi	-	-	-	-	-	-	-	-
Mozambique	-	-	-	-	-	-	-	-
Namibia	..	..	..	..	..	..	..	..
Nigeria	42 970	26 970	..	..	35 750	25 020	..	..
South Africa	13 396	13 309	13 437	13 037	402 011	439 645	441 053	472 025
Swaziland	-	-	-	-	-	-	-	-
Tanzania	-	-	-	-	-	-	-	-
Zaire	-	-	-	-	-	-	-	-
Zambia	-	-	-	-	-	-	-	-
Zimbabwe	-	-	-	-	-	-	-	-
America								
Argentina	36 664	11 379	20 092	12 345	166 047	164 152	173 624	..
Brazil	65 641	65 794	74 314	..	116 974	109 263	108 587	..
Canada	58 690	58 724	56 769	60 417	..	..	..	116 279
Chile	..	..	..	..	..	..	..	..
Columbia	23 732	21 927	24 874	28 138	23 809	22 056	24 967	27 919
Cuba	..	..	..	..	..	..	..	..
Mexico	18 209	20 887	19 731	17 233	93 680	97 356	93 357	94 210
Peru	6 115	7 012	6 066	7 145	9 815	8 852	9 187	..
USA	320 439	321 169	340 507	363 896	298 837	293 452	277 520	281 709
Uruguay	..	..	..	..	..	..	..	..
Venezuela	19 882	19 758	22 087	..	11 500	15 194	17 211	..
Asia								
China	..	..	..	201 626	140 198	161 292	184 658	201 124
Hong Kong	140 121	161 109	184 901	..	23 423	..	..	..
India	18 892	..	..	..	..	..	..	..
Israel	20 033	22 358	26 401	28 981	..	..	..	..
Japan	402 190	398 240	397 582	410 164	..	..	..	..
Malaysia	101 170	108 170	109 300	110 330	101 230	109 070	109 000	110 650
Pakistan	16 289	19 401	18 785	20 195	7 692	7 382	7 284	8 287
Singapore	70 345	81 334	92 655	101 107	70 119	81 245	92 477	101 017

Table 7.7 (continued): Shipping								
Country	Vessels entered (thousand net registered tons)				Net-ton kilometres (thousand net registered tons)			
	1991	1992	1993	1994	1991	1992	1993	1994
Europe								
Austria	-	-	-	239 678	-	-	-	-
Belgium	211 767	236 323	229 915	111 934	165 185	189 286	190 795	201 448
Finland	112 418	119 238	117 003	1 941 433	111 948	119 040	121 946	117 143
France	1 751 943	1 825 276	1 861 742	223 363	-	-	-	-
Germany	-	225 984	221 741	33 049	-	199 441	196 456	201 316
Greece	36 679	37 789	32 429	37 896	20 118	20 401	18 467	21 087
Ireland	32 892	33 857	36 408	180 175	-	-	-	-
Italy	184 693	175 940	168 545	403 355	80 303	79 600	84 044	91 288
Netherlands	374 428	383 164	375 906	34 544	232 349	239 572	237 817	258 152
Norway	-	-	-	137 951	-	-	-	-
Portugal	34 909	36 415	32 654	-	-	-	-	-
Spain	132 398	134 847	130 171	-	43 226	43 255	46 942	47 813
Sweden	-	-	-	-	-	-	-	-
Switzerland	-	-	-	-	-	-	-	-
United Kingdom	-	-	-	-	-	-	-	-
Oceania								
Australia	-	-	-	39 700	-	-	-	-
New Zealand	38 069	27 983	37 603	-	36 158	27 058	35 128	37 421

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¹ The figures for vessels entered and cleared represent the sum of the net registered tonnage of sea-going foreign and domestic merchant vessels entered with cargo from or cleared with cargo to a foreign port. The data exclude vessels entering without unloading or clearing without loading goods.

Table 7.8: Aviation ¹

Country	Number of passengers carried (thousand)			Passenger-kilometres (million)			Ton-kilometres (million)		
	1992	1993	1994	1992	1993	1994	1992	1993	1994
	Africa								
Algeria	3 551	3 254	3 241	3 234	2 901	2 706	3 10	296	268
Angola	440	334	519	1 196	948	1 594	147	113	197
Botswana	111	123	101	76	75	58	8	8	6
Egypt	3 609	2 881	3 538	6 323	5 277	6 324	687	606	763
Ghana	206	152	182	352	387	478	62	61	72
Kenya	721	770	754	1 333	1 459	1 737	174	191	215
Lesotho	26	23	27	9	9	9	1	1	1
Madagascar	344	419	451	432	499	567	66	72	74
Malawi	121	132	142	79	266	289	9	15	28
Mozambique	225	206	221	382	411	443	44	47	52
Namibia	163	179	199	535	687	751	59	84	93
Nigeria	647	608	650	990	913	985	103	96	96
South Africa	4 685	5 582	5 802	9 511	11 529	12 352	1 116	1 357	1 374
Swaziland	57	58	65	42	44	48	4	4	4
Tanzania	216	188	199	174	157	165	18	16	17
Zaire	116	84	178	295	218	480	56	42	87
Zambia	246	219	235	509	393	428	63	47	54
Zimbabwe	678	558	605	880	735	666	171	154	209
America									
Argentina	6 711	5 104	6 253	11 696	9 231	11 250	1 319	1 117	1 289
Brazil	16 388	16 599	17 885	27 897	29 555	32 139	3 796	4 084	4 496
Canada	16 818	17 516	18 105	41 253	40 426	43 490	5 109	5 151	5 532
Chile	1 906	2 360	2 962	3 854	4 425	5 398	879	1 018	1 142
Columbia	5 414	6 930	7 686	4 590	5 437	5 675	952	1 029	1 156
Cuba	733	624	731	1 370	1 321	1 556	149	138	174
Mexico	15 532	16 485	18 791	19 553	20 790	23 521	1 851	1 978	2 299
Peru	1 218	1 362	1 895	1 528	1 926	2 601	179	214	257
USA	466 157	468 974	513 756	764 118	772 048	822 152	87 917	89 486	96 941
Uruguay	430	503	529	490	400	645	46	40	62
Venezuela	7 149	6 814	5 267	6 753	6 880	6 426	779	784	788
Asia									
China	27 345	31 312	37 498	40 605	45 000	51 395	4 284	4 848	5 535
Hong Kong	..	..	..	..	..	..	..	..	..
India	11 127	9 442	11 518	16 718	14 396	17 581	1 919	1 661	2 145
Israel	2 391	2 569	2 980	8 361	8 747	9 662	1 603	1 654	1 832
Japan	81 378	80 064	83 913	108 082	106 983	118 011	14 542	14 721	16 247
Malaysia	12 757	13 077	14 250	15 714	17 445	20 335	2 113	2 178	2 507
Pakistan	5 681	5 647	5 664	10 095	9 898	10 409	1 332	1 322	1 400
Singapore	8 477	9 271	9 929	37 045	41 262	44 947	5 783	6 826	7 586

Table 7.8 (continued) : Aviation ¹		Passenger-kilometres (million)						Ton-kilometres (million)		
Country	Number of passengers carried (thousand)			Passenger-kilometres (million)			Ton-kilometres (million)			
	1992	1993	1994	1992	1993	1994	1992	1993	1994	
Europe										
Austria	3 024	3 297	3 748	4 867	5 629	5 933	568	669	703	
Belgium	3 146	3 651	4 193	6 203	6 484	7 496	965	1 081	1 209	
Finland	3 898	3 947	4 482	4 639	5 529	6 720	535	662	804	
France	33 607	35 221	38 060	56 701	60 056	68 019	9 293	9 808	11 360	
Germany	27 578	29 363	30 964	48 965	52 941	56 903	9 166	10 109	11 243	
Greece	5 466	5 478	5 813	7 262	7 899	8 429	772	848	904	
Ireland	5 006	4 650	4 826	4 461	4 209	4 920	501	467	537	
Italy	21 767	21 880	22 933	28 667	29 702	31 738	3 878	4 044	4 257	
Netherlands	10 088	11 775	12 895	33 351	38 554	42 435	5 556	6 512	7 320	
Norway	9 469	10 383	11 133	6 584	7 266	7 663	718	791	836	
Portugal	4 109	4 379	4 360	7 790	8 089	7 880	882	913	904	
Spain	23 386	22 279	21 992	27 480	27 105	26 654	3 081	3 025	3 003	
Sweden	9 924	9 730	10 808	8 247	8 428	9 417	932	993	1 064	
Switzerland	8 256	9 152	9 938	16 472	17 509	18 858	2 704	2 990	3 288	
United Kingdom	47 583	50 188	55 475	115 199	124 882	139 088	15 710	17 387	19 699	
Oceania										
Australia	23 887	26 929	26 816	49 612	57 343	61 124	6 024	6 896	7 442	
New Zealand	5 784	6 291	7 716	12 679	14 163	16 946	1 618	1 823	2 170	

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¹ The data cover the domestic and international scheduled services operated by airlines registered in each country. Scheduled services include supplementary services occasioned by overflow traffic on regularly scheduled trips and preparatory flights for newly scheduled services. Freight means all goods except mail and excess baggage carried for remuneration.

Table 7.9: Selected statistics

Country	Urban population as percentage of total		Total roads 1990-1992 (km)	Paved roads (1990) (km)	Percentage paved roads of total (1990) (%)	Railways (1990) (km)
	1990 (%)	1995 (%)				
Angola	10	32	72 611	8 600	12	2 900
Botswana	2	35	13 500	1 600	14	1 100
Lesotho	3	24	5 000	570	8	2
Malawi	4	14	..	2 400	18	780
Mozambique	4	34	27 287	4 600	17	3 150
Namibia	15	31	41 815	4 100	8	2 380
South Africa	47	62	..	58 000	31	21 245
Swaziland	4	39	2 801	510	18	370
Tanzania	5	40	..	3 600	4	3 570
Zambia	17	55	37 000	6 500	18	2 190
Zimbabwe	13	31	120 000	15 800	9	2 745
Southern Africa	..	..	..	102 680	20	80 850
Africa	18	37	..	325 000	25	36 863

(Africa at a glance) Africa Institute