

XII. TRANSPORT, COMMUNICATION AND TOURISM

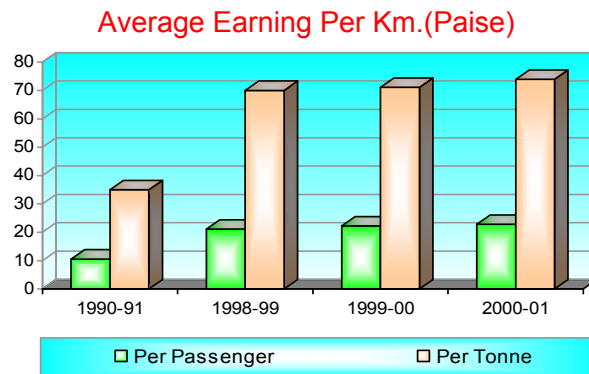
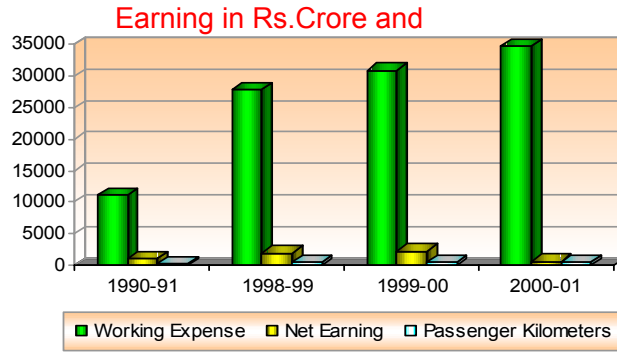
TABLE 12.1 RAILWAYS-GENERAL STATISTICS

Item	Unit	1990-91	1998-99	1999-00	2000-01
Route length	'000 km.	62	63	63	63
Capital-at-Charge (1)	Rs.crore	16126	36829	39772	43052
Gross earnings	Rs.crore	12133	29825	33125	35288
Working expenses	Rs.crore	11159	27838	30910	34701
Net earnings	Rs.crore	974	1987	2215	587
Passenger-					
Originating	'00 crore	3.9	4.4	4.6	4.8
Kilometers	'00 crore	296	404	431	457
Earnings	Rs.crore	3145	8527	9556	10483
Average earnings per passenger per km.	Paise	10.6	21.1	22.2	22.9
Freight-Tonnes					
Originating	crore	34	44	48	50.0
Kilometres	'00 crore	243	284	308	316
Earnings	Rs.crore	8247	19676	21755	23045
Average earnings per tonne per km.	Paise	35.0	69.9	71.3	73.8
Rolling stock in service					
Locomotives	'000 no.	8.4	7.4	7.5	7.6
Passenger carriages (2)	'000 no.	31.8	35.6	36.5	37.8
Goods wagons etc. (3)	'000 no.	346	253	244	222

Source: Railway Board

- (1) Excludes capital relating to Metropolitan Transport Projects (Railways). Includes Rs.9517 crore, Rs.10117 crore and Rs.10390 crore for the years 1998-99, 1999-00 and 2000-01 respectively on account of investment from Capital Fund.
- (2) Includes Electric Multiple Unit Coaches.
- (3) Includes special wagons, brake vans, and also railway service vehicles inspection trollies, travelling cranes and their dummy trucks.

RAILWAYS



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**TABLE 12.2 RAILWAYS (1) - WAGON LOADINGS BY COMMODITIES
(Broad Gauge)**

('000 wagons loaded)

Commodity	1990-91	1998-99	1999-00	2000-01
Revenue earning traffic	13323	17919	19547	20231
Coal and coke	5732	8098	8621	9129
Grains and pulses	874	1117	1255	1066
Oilseeds	12	6	11	8
Cotton raw	9	-	-	-
Jute raw	4	1	-	-
Jute manufactures	12	10	9	11
Sugar	66	81	82	107
Sugarcane	5	-	-	1
Cement	1057	1345	1688	1662
Iron and steel	458	498	561	555
Tea	4	4	2	3
Manganese ore	44	44	31	34
Iron ore	1545	2047	2171	2470
Other metallic ores	74	72	57	76
Limestone and dolomite	357	358	392	404
Miscellaneous	3070	4238	4667	4705
Non-revenue traffic	559	348	345	358
Grand Total	13882	18267	19892	20589

Source: Railway Board

(1) Government Railways only (in terms of four-wheelers).

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**TABLE 12.3 RAILWAYS (1) - WAGON LOADINGS BY COMMODITIES
(Metre Gauge)**

('000 wagons loaded)

Commodity	1990-91	1998-99	1999-00	2000-01
Revenue earning traffic	1808	601	621	559
Coal and coke	202	-	-	-
Grains and pulses	297	85	81	93
Oilseeds	12	-	-	-
Cotton raw	6	-	-	-
Jute raw	1	-	1	1
Jute manufactures	5	-	-	-
Sugar	25	-	4	5
Sugarcane	69	20	23	24
Cement	265	171	170	149
Iron and steel	8	-	-	-
Manganese ore	9	-	-	-
Iron ore	40	-	-	-
Other metallic ores	3	-	-	-
Limestone and dolomite	54	-	-	-
Miscellaneous	812	325	342	287
Non-revenue traffic	229	65	67	75
Grand Total	2037	666	688	634

Source: Railway Board

(1) Government Railways only (in terms of four wheelers).

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**TABLE 12.4 TOTAL ROAD LENGTH BY SURFACE
(As on 31st March)**

(kilometre)

Year/State/UT	Road Length(Kms.)@		Surfaced	Unsurfaced	Total length
	Per 100 Sq.Kms of Area	Per Lakh of Population@@			
1991	61.3	238.5*	1091043	1240043	2331086
1997	74.9	258.2	1363127	1035661	2398788
1998	74.8	253.1	1401669	1056026	2457695
1999	76.8	256.1	1448629	1077360	2525989
1999					
Andhra Pradesh	65.2	239.0	110110	69177	179287
Arunachal Pradesh	21.8	1522.7	5596	12676	18272
Assam	109.4	329.9	12701	73077	85778
Bihar	51.4	90.6	34082	55354	89436
Goa	263.5	609.6	6003	3750	9753
Gujarat	47.6	195.3	83071	10273	93344
Haryana	65.3	147.3	26245	2626	28871
Himachal Pradesh	52.7	444.5	16565	12772	29337
Jammu & Kashmir	10.7	243.7	10183	13701	23884
Karnataka	79.2	294.4	103045	48891	151936
Kerala	381.7	462.1	46884	101457	148341
Madyha Pradesh	46.0	258.6	92178	111629	203807
Maharashtra	124.1	422.3	289027	92726	381753
Manipur	51.2	457.4	3816	7618	11434
Meghalaya	40.7	380.3	4589	4537	9126
Mizoram	23.0	538.4	4632	214	4846
Nagaland	122.7	1271.1	6236	14101	20337
Orissa	168.6	737.4	88416	174097	262513
Punjab	128.2	275.9	52602	11947	64549
Rajasthan	41.2	266.3	89378	51478	140856
Sikkim	26.1	370.2	1544	307	1851
Tamil Nadu	117.7	249.3	117468	35619	153087
Tripura	148.4	420.7	4385	11180	15565
Uttar Pradesh	96.7	169.8	163908	120857	284765
West Bengal	89.3	101.2	44970	34285	79255

for footnotes please see next page.

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**TABLE 12.4 TOTAL ROAD LENGTH BY SURFACE-Concl'd.
(As on 31st March)**

(kilometre)

Year/State/UT	Road Length(Kms.)@		Surfaced	Unsurfaced	Total length
	Per 100 Sq.Kms of Area	Per Lakh of Population@@			
Union Territories:					
A & N Islands	13.7	282.0	1082	46	1128
Chandigarh	1604.4	203.2	1829	0	1829
Dadra & Nagar Haveli	109.2	268.0	536	0	536
Daman & Diu	227.7	255.0	225	0	225
Delhi	1861.8	203.0	25100	2511	27611
Lakshadweep	409.4	131.0	131	0	131
Pondicherry	511.4	228.7	2062	454	2516

**Source: Transport Research Wing,
Ministry of Road Transport & Highways**

@ Excluding Jawahar Rojgar Yojna (JRY) Roads.

@@ Estimated mid year population by Registrar General of India, Ministry of Home Affairs.
(As on 1st July,).

* Calculated on the basis of the population of 1991 Census.

Note: All India data include roads constructed under Jawahar Rozgar Yojana (JRY) also except for 1997, However, statewise data do not include such roads as statewise break-up of JRY Roads is not available.

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TABLE 12.5 NUMBER OF REGISTERED MOTOR VEHICLES

('000 number)

Type of vehicle	as on 31st March			
	1991	1998	1999	2000(P)
Two wheelers	14200	28642	31328	33913
Cars,Jeeps and Taxis	2954	5138	5556	6042
Buses	331	538 @	540@	559@
Goods vehicles	1356	2536	2554	2681
Others (1)	2533	4514	4897	5198
Total	21374	41368	44875	48393

**Source: Transport Research Wing,
Ministry of Road Transport & Highways**

(1) Include tractors, trailers, three wheelers (passengers) and other miscellaneous vehicles which are not separately classified.

@ Include omni-buses.

**TABLE 12.6 NUMBER OF PERSONS KILLED AND INJURED
BY MOTOR VEHICLE ACCIDENTS**

('000 no.)

Item	1991	1998	1999	2000
Road accidents	293.4	385.0	386.4	391.4
Persons killed	56.4	79.9	82.0	78.9
Persons injured	255.0	390.7	375.0	399.3

**Source: Motor Transport Statistics of India,
Ministry of Road Transport & Highways**

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TABLE 12.7 CIVIL AVIATION-DOMESTIC SERVICES

Item	Unit	1990-91	1998-99	1999-00	2000-01(P)
Aircraft					
Hours flown	('000)	124	210	230	250
Kilometres flown	(crore)	5.9	11.7	12.9	13.7
Passenger					
Number carried	('000)	7912	12017	12708	13719
Kilometres flown	(crore)	702.8	1082.0	1142.0	1228.7
Seat kilometres available	(crore)	885.2	1792.1	1910.0	1990.5
Load factor (1)		79.4	60.4	59.8	61.7
Cargo carried					
Freight	('000 tonne)	97	136	159	154
Freight		82	115	138	133
Mail		15	21	21	21
Tonne kilometres flown	(crore)	68.4	106.6	114.1	122.6
Passenger		58.0	92.6	97.7	105.6
Freight		8.8	12.0	14.2	14.6
Mail		1.6	2.0	2.2	2.4
Capacity tonne					
kilometres available	(crore)	90.3	191.1	204.3	212.8
Weight load factor (2)		75.8	55.8	59.8	57.6

Source: Office of the Director General of Civil Aviation

(1) Represents the percentage of passenger kilometres flown to the passenger seat kilometres available.

(2) Represents the percentage of tonne kilometres (passenger, freight and mail) flown to the capacity tonne kilometres available.

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TABLE 12.8 CIVIL AVIATION-INTERNATIONAL SERVICES

Item	Unit	1990-91	1998-99	1999-00	2000-01 (P)
Aircraft					
Hours flown	('000)	73	101	95	98
Kilometres flown	(crore)	5.1	6.9	6.5	6.6
Passenger					
Number carried	('000)	2430	3520	3673	3828
Kilometres flown	(crore)	882.0	1309.0	1320.3	1392.8
Seat kilometres available	(crore)	1325.4	1880.9	1798.7	1831.9
Load factor (1)	(%)	66.5	69.6	73.4	76.0
Cargo carried					
Freight	('000 tonne)	101	93	100	101
Freight		99	92	99	100
Mail		2	1	1	2
Tonne kilometres flown	(crore)	137.5	161.9	162.9	170.8
Passenger		81.1	121.1	122.7	129.6
Freight		55.3	39.8	39.0	40.3
Mail		1.1	1.0	1.2	0.9
Capacity					
Tonne kilometres available	(crore)	220.3	244.3	231.5	234.6
Weight load factor (2)		62.4	66.3	70.4	72.8

Source: Office of the Director General of Civil Aviation

For footnotes, please see pre-page.

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TABLE 12.9 SHIPPING - STRENGTH OF INDIAN SHIPPING FLEET

Category	as on 31st December			
	1991	1998	1999	2000
Vessels engaged in coastal trade				
Number	169	247	269	312
Tonnage ('000 GRT)	561	654	680	709
Vessels engaged in overseas trade				
Number	246	237	241	237
Tonnage ('000 GRT)	5378	6131	6373	6223
Total				
Number	415	484	510	549
Tonnage ('000 GRT)	5939	6785	7053	6932

Source: Transport Research Wing, Ministry of Surface Transport

GRT Gross Registered Tonnage.

**TABLE 12.10 SHIPPING-NUMBER AND TONNAGE OF VESSELS ENTERED
(all major ports)**

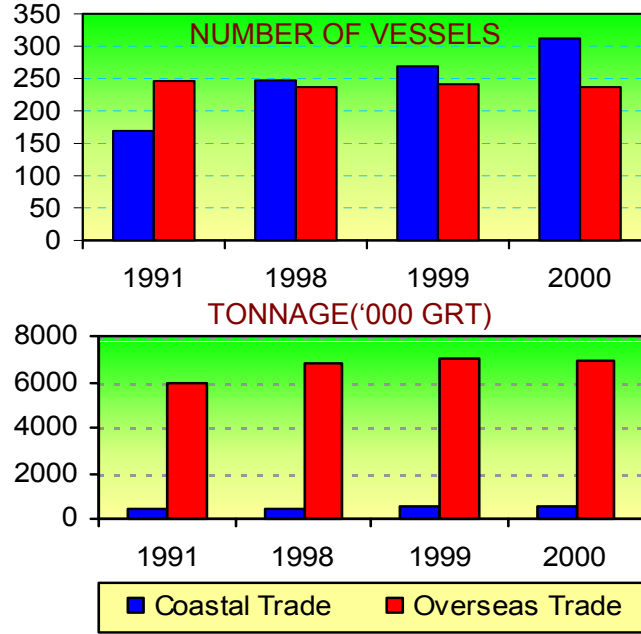
Item	('000 NRT)			
	1990-91	1997-98	1998-99	1999-00
Overseas				
Number	6793	5338	5102	7084
Tonnage('000 NRT)	46307	47055	48512	60850
Coastal				
Number	8616	3494	3554	4795
Tonnage('000 NRT)	21692	16640	16556	34094
Total				
Number	15409	8832	8656	11879
Tonnage('000 NRT)	67999	63695	65068	94944

Source: Directorate General of Commercial Intelligence and Statistics

NRT Net Registered Tonnage.

SHIPPING-STRENGTH OF INDIAN SHIPPING FLEET

(As on 31st December)



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TABLE 12.11 SHIPPING- CARGO HANDLED AT MAJOR PORTS

('000 tonne)

Year	Overseas			Coastal		
	Unloaded	Loaded	Total	Unloaded	Loaded	Total
Calcutta/Haldia						
1990-91	9366	1006	10372	1050	3531	4581
1997-98	16757	2247	19004	2902	6251	9153
1998-99	18987	1707	20694	2576	6117	8693
1999-00	22350	1803	24153	2586	4287	6073
2000-01	20254	2405	22659	2925	4416	7341
Mumbai						
1990-91	13125	3238	16363	594	11942	12536
1997-98	17684	5824	23508	1623	6966	8589
1998-99	17548	5070	22618	1618	6734	8352
1999-00	17512	3922	21434	2879	6099	8978
2000-01	14799	3593	18392	2160	6511	8671
Chennai						
1990-91	7313	8205	15518	7687	1313	9000
1997-98	12730	10455	23185	11299	1047	12346
1998-99	12431	9217	21648	12660	894	13554
1999-00	12950	9826	22776	13488	1179	14667
2000-01	13187	11567	24754	15733	733	16466
Vishakhapatnam						
1990-91	7925	5895	13820	2397	3204	5601
1997-98	15885	6797	22682	5941	7391	13332
1998-99	16033	6379	22412	6070	7172	18242
1999-00	16379	6299	22678	8772	8060	16832
2000-01	16407	8170	24577	10092	10016	20108
Kandla						
1990-91	11367	2267	13634	5904	147	6051
1997-98	29755	3702	33457	5266	178	5444
1998-99	31626	4023	35649	4831	157	4988
1999-00	34700	3402	38102	7935	266	8201
2000-01	26704	4400	31104	5250	387	5637

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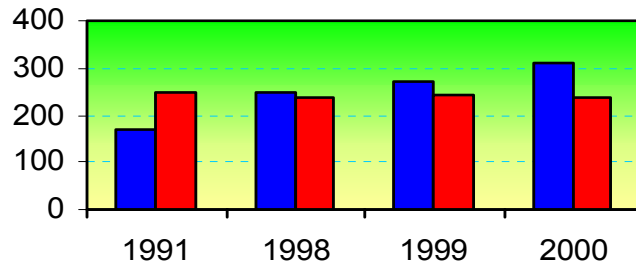
TABLE 12.11 SHIPPING- CARGO HANDLED AT MAJOR PORTS-Contd.

('000 tonne)

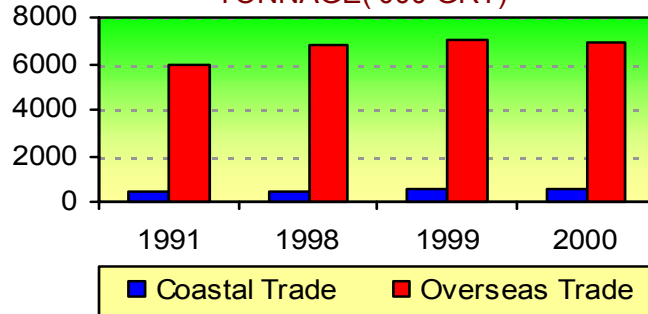
Year	Overseas			Coastal		
	Unloaded	Loaded	Total	Unloaded	Loaded	Total
Mormugao						
1990-91	1058	13154	14212	663	36	699
1997-98	1122	19114	20236	856	90	946
1998-99	1779	15335	17114	781	125	906
1999-00	2278	14784	17062	1019	145	1164
2000-01	2558	15813	18371	1132	125	1257
Paradip						
1990-91	2839	2101	4940	-	1944	1944
1997-98	4379	1676	6055	109	7138	7247
1998-99	3939	1343	5282	568	7258	7826
1999-00	4237	1933	6130	539	6927	7466
2000-01	6015	3793	9808	833	9259	10092
Cochin						
1990-91	2138	380	2518	4113	644	4757
1997-98	5447	1038	6485	4334	1504	5838
1998-99	6168	952	7120	4083	1478	5561
1999-00	3490	893	4383	7146	1312	8458
2000-01	6278	1072	7350	4783	1011	5794
Jawaharlal Nehru						
1990-91	1654	368	2022	-	-	-
1997-98	5052	3418	8470	321	104	425
1998-99	6553	4257	10810	865	48	913
1999-00	8193	5831	14024	880	72	952
2000-01	9120	7644	16764	1491	320	1811
New Mangalore						
1990-91	799	6485	7284	564	174	738
1997-98	5823	6441	12264	275	2743	3018
1998-99	6581	5120	11701	348	2157	2505
1999-00	7977	5911	13888	476	3237	3713
2000-01	8227	5349	13576	963	3352	4315

SHIPPING-STRENGTH OF INDIAN SHIPPING FLEET

(As on 31st December)
NUMBER OF VESSELS



TONNAGE('000 GRT)



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TABLE 12.11 SHIPPING- CARGO HANDLED AT MAJOR PORTS-Concl'd.

('000 tonne)

Year	Overseas			Coastal		
	Unloaded	Loaded	Total	Unloaded	Loaded	Total
	Tuticorin					
1990-91	1448	521	1969	3093	13	3106
1997-98	2791	1542	4333	5623	18	5641
1998-99	3341	1629	4970	5144	36	5180
1999-00	3732	2029	5761	4202	30	4232
2000-01	3654	2396	6050	6185	49	6234
	Total- All Major Ports					
1990-91	59032	43620	102652	26065	22948	49013
1997-98	117425	62254	179679	38549	33430	71979
1998-99	124986	55032	180018	39544	32176	71720
1999-00	133798	56633	190431	49922	31614	81536
2000-01	127203	66202	193405	51547	36179	87726

**Source: Transport Research Wing,
Ministry of Shipping**

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**TABLE 12.12 POSTS, TELEGRAPHS AND TELEPHONES -
TRAFFIC AND EARNINGS**

Item	Unit	1990-91	1998-99	1999-00	2000-01
Number of units (1)					
Post offices (2)	'000	149	154	155	155
Telegraph offices (3)	'000	43	45	44	43
Telephones installed	'000	6021	22466	27391	34228
Traffic handled					
Postal articles (4) (including M.Os.)	crore	1475.9	1587.5	1589.5	1431.2
Regd. articles (5)	crore	31.1	26.8	27.6	24.5
Money orders (6)	crore	10.6	10.9	11.4	10.9
Value of M.Os.	Rs. crore	2937.2	4829.8	5707.9	5851.8
Telegrams booked (7)	crore	6.4	4.4	4.0	3.4
Trunk calls (effective)	crore	22.4	4.9	3.9	3.3
Earnings					
Postal revenues	Rs. crore	840.9	1722.5	2020.1	3297.8
Telecom revenue (8)	Rs. crore	3874.52	17744.2	18256.7	10175.0

**Source: 1. Department of Posts
2. Department of Telecommunications**

- (1) As at the end of the financial year.
(2) Include permanent and experimental post offices.
(3) Include licensed offices.
(4) Include service and registered articles.
(5) Include foreign traffic of Posts and Telegraphs.
(6) Include foreign money orders issued.
(7) Include foreign telegrams.
(8) Includes advance rental in the "Own Your Telephone" Scheme, Telegraph Revenue and Wireless Revenue. It does not include MTNL, Mumbai and Delhi however excludes network charges received from MTNL.

XII. TRANSPORT, COMMUNICATION AND TOURISM

**TABLE 12.13 NUMBER OF FOREIGN TOURISTS TO INDIA
BY COUNTRY OF NATIONALITY**

(Number)

Nationality	1991	1999	2000	2001
North America	153502	334869	432305	417747
Canada	36142	82892	84013	88600
U.S.A.	117322	251926	348292	329147
Others	38	51	0	0
Central and South America	11819	37988	23131	21925
Argentina	1428	5464	3094	2906
Brazil	2488	8868	4060	3819
Mexico	1110	5048	3334	3473
Others	6793	18608	12643	11727
Western Europe	514541	807885	875908	819973
Austria	9945	19051	19185	17787
Belgium	12549	25328	20230	18851
Denmark	5645	16127	16272	14531
Finland	5524	10849	10553	8186
France	69346	85891	100022	102434
Germany	72019	85033	83881	80011
Greece	2212	8594	4583	3996
Ireland	2400	9393	6025	6136
Italy	41129	50677	50419	41351
Netherlands	19845	48820	46370	42368
Norway	3543	9392	7997	7667
Portugal	3819	8043	7325	7028
Spain	13644	23688	26050	23073
Sweedeen	10591	22738	14717	14446
Switzerland	29247	34824	27432	25308
U.K.	212052	345085	432624	405472
Others	1031	4352	2223	1328

XII. TRANSPORT, COMMUNICATION AND TOURISM

**TABLE 12.13 NUMBER OF FOREIGN TOURISTS TO INDIA
BY COUNTRY OF NATIONALITY-Contd.**

(Number)

Nationality	1991	1999	2000	2001
Eastern Europe	46073	59893	49764	38863
Czechoslovakia	3200	5016	2626	3197
Hungry	1760	4229	2280	1939
Poland	6160	7934	6284	5181
C.I.S.	30896	34620	35988	24831
Others	4057	8094	2586	3715
Africa	62087	136595	94523	90962
Egypt	2346	7075	2165	2479
Ethiopia	6100	5578	3552	2897
Kenya	13831	21231	16386	15973
Mali	32	11351	80	85
Mauritius	6385	16478	14358	16039
Nigeria	2342	6614	6256	7539
South Africa	8087	23909	21919	21162
Sudan	5063	3502	3418	2323
Tanzania	6103	10452	7194	6579
Zambia	3970	1712	1238	1290
Others	7828	28693	17957	14596
West Asia	116857	110806	95580	96424
Bahrain	11386	10001	3738	3945
Israel	6882	23417	25631	28774
Jorden	2213	3594	1611	1428

(1) Data for the year 1991 relates to former U.S.S.R.

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**TABLE 12.13 NUMBER OF FOREIGN TOURISTS TO INDIA
BY COUNTRY OF NATIONALITY-Contd.**

(Number)

Nationality	1991	1999	2000	2001
Kuwait	5884	3915	1822	1850
Oman	17035	14878	12616	13114
Qatar	6734	3756	1545	1361
Saudi Arabia	21114	14424	10739	9851
Syria	2709	2686	1270	1501
Turkey	2117	3815	3246	2432
U.A.E.	25806	16780	22559	21483
Yemen Arab Rep.	11944	7494	7980	7773
Others	3033	6046	2823	2912
South Asia	589705	624945	673917	672133
Afghanistan	25328	3254	1481	1248
Iran	19959	11655	10577	11728
Maldives	8722	3312	21633	17564
Nepal	21834	25859	38801	41135
Pakistan	190128	42538	54902	52762
Bangladesh	251260	414359	414437	431312
Srilanka	70088	120072	129193	112813
Bhutan	2386	3896	2893	3571
South East Asia	78850	142358	148513	139975
Indonesia	4209	9452	8659	7767
Malaysia	30617	52613	60513	57869
Maynnar	558	3545	4636	3417
Philippins	3207	6640	7521	7199

XII. TRANSPORT, COMMUNICATION AND TOURISM

**TABLE 12.13 NUMBER OF FOREIGN TOURISTS TO INDIA
BY COUNTRY OF NATIONALITY-Concl'd.**

(Number)

Nationality	1991	1999	2000	2001
Shingapore	28363	53310	46612	42824
Thailand	11354	13475	18607	18623
Others	542	3323	1965	2276
East Asia	68794	125108	147674	130464
China(Main)	3476	6487	14420	13901
China(Taiwan)	1499	6489	7191	4756
Hong Kong	10128	7979	923	918
Japan	46655	79373	98159	80634
Korea(South)	3649	19188	23411	27150
Korea(North)	2120	3382	3237	2535
Others	1267	2210	333	570
Australasia	30535	101237	67567	66104
Australia	22700	73041	53995	52691
Newzeland	5968	18324	11551	11700
Fiji	1223	3000	1541	1422
Others	644	6872	480	291
Stateless	3001	244	8912	9393
Others	-	-	31584	33319
Grand Total	1675764	2481928	2649378	2537282

Source: Department of Tourism