

**VIETNAM: TRANSPORT SECTOR INDICATORS**

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Country Name		Vietnam	Vietnam	Vietnam	Vietnam
Year		1980	1990	2000	2002
<b>Population</b>					
Percentage Urban Population	%	19.20%	20.05%	24.00%	
Percentage Rural Population	%	80.80%	79.95%	76.00%	
<b>Average Household Size</b>					
Average Urban Household Size	person				
Average Rural Household Size	person				
Population Density	people per km2	200	223	235	242
<b>Period</b>					
		1970-1975	1980-1985	1994-2000	2002
Population Growth (average per year)	%	2.3%	1.8%	1.5%	1.2%
Average Annual Urban Population Growth	%				
Average Annual Rural Population Growth	%				
<b>Basic Statistics</b>					
Annual GDP Growth			5.1%	5.5%	6.8%
GNI per Capita	US\$/capita				410
Country Classification - Income Group Level			Low Income	Low Income	
<b>Period</b>					
		1981-1991	1991-2001		
Average Annual GDP Growth	%	4.9%	7.6%		
<b>MARKET CONTEXT</b>					
		Vietnam	Vietnam	Vietnam	Vietnam
		1990	1995	2000	2002
<b>Modal Split Passenger Traffic [passenger-km]</b>					
Highways market share	%	72.2%	72.2%	73.5%	
Railways market share	%	16.5%	12.1%	12.9%	
Waterways market share	%	8.8%	8.1%	7.7%	
Aviation market share	%	2.5%	7.6%	5.9%	
<b>Modal Split Freight Traffic [ton-km]</b>					
Highways market share	%	38.6%	42.4%	48.5%	
Railways market share	%	20.0%	25.0%	19.4%	
Waterways market share	%	41.3%	32.1%	31.9%	
Aviation market share	%	0.07%	0.52%	0.27%	
<b>ACCESS</b>					
		Vietnam	Vietnam	Vietnam	Vietnam
		1992	1997	2000	2002
<b>Transport network includes (roads &amp; highways, railways and waterways)</b>					
Transport network density in terms of land area	km/ 1,000 km2	350.92	663.58	683.42	
Transport network density in terms of total population	km/ 1,000 people			2.91	
<b>Road Density</b>					
Road density in terms of land area	km/ 1,000 km2	318.86	631.52	651.36	
Road density in terms of total population	km/ 1,000 people			2.78	
<b>Rail Density</b>					
Rail density in terms of land area	km/ 1,000 km2			7.85	
Rail density in terms of total population	km/ 1,000 people			0.03	
<b>Waterways Density</b>					
Waterways density in terms of land area	km/ 1,000 km2			24.21	
Waterways density in terms of total population	km/ 1,000 people			0.10	
<b>Airports and Ports</b>					
Number of Airport with runway length >1,524 m per land area	number/ 100,000 km2			3.32	
Number of Major Coastal Ports per length of Coastline	number/ 1,000 km coastline			2.45	
Number of River Ports per length of navigable inland waterways	number/ 1,000 km IWW			0.00	
<b>Motorization and NMT</b>					
Number of motor vehicles per household	vehicles/100 households		1995		
Number of motor vehicles per thousand people	vehicles/1,000 people		4.9		
Number of motorcycles per household					
Number of bicycles per household					
<b>AFFORDABILITY</b>					
		Vietnam	Vietnam	Vietnam	Vietnam
		1990	1995	1998	1999
<b>Fuel Price</b>					
Gasoline (Super/Regular)	US\$ cent per liter		34	35	
Diesel Oil	US\$ cent per liter		25	26	
<b>Transport Freight Cost</b>					
Average [or range] trucking cost per ton-km	US\$ cent per ton-km				
Average [or range] train cost per ton-km	US\$ cent per ton-km				
Average [or range] waterways cost per ton-km	US\$ cent per ton-km				
Average [or range] air cost per ton-km	US\$ cent per ton-km				
<b>Transport Passenger Cost</b>					
Average [or range] bus cost per passenger-km	US\$ cent per pass-km	Hanoi - HCMC	Hanoi - Danang	Range 1999	Average 1999
Average [or range] train cost per passenger-km	US\$ cent per pass-km	0.77	0.69	0.69-0.77	1.23
Average [or range] air cost per passenger-km	US\$ cent per pass-km	1.54-2.28-3.10	1.54-2.28-3.40	1.54-3.40	2.47
Average [or range] air cost per passenger-km	US\$ cent per pass-km	4.17	4.55	4.17-4.55	4.36
<b>QUALITY</b>					
		Vietnam	Vietnam	Vietnam	Vietnam
		1990	1995	1997	2000
<b>National Road Network Condition</b>					
% of roads in good condition of national network	%				
% of roads in fair (regular) condition of national network	%				
% of roads in poor condition of national network	%				
<b>National Road Network Quality</b>					
Paved Roads as proportion of national road network	%			61%	90%
Expressways/Motorways as proportion of national road network	%				
<b>National Railway Network Quality</b>					
Double-tracking rails as proportion of national rail network	%				
Electrified rails as proportion of national rail network	%				
<b>Air Transport</b>					
Average number of movements per international airport per day	number				93
Average number of passengers per international airport per day	number				11,087
Average volume of cargo per international airport per day	metric tons				261
<b>Ports</b>					
Average Volume of Freight Handled in Major River Ports	Thousand Tons	1994	1996	1997	1998
Average Volume of Freight Handled in Major Coastal Ports	Thousand Tons	216	235	203	
Average freight volume handled per major coastal ports per day	tons	1,483	1,930	1,883	2,153
<b>Road Safety</b>					
Number of accidents in terms of motor vehicles	accidents/10,000 veh	1990	1995	1997	2000
Number of fatalities in terms of motor vehicles	fatalities/10,000 veh	221	421		
Number of injuries in terms of motor vehicles	injuries/10,000 veh	83	149		
Number of accidents in terms of population	accidents/100,000 people	185	463		
Number of fatalities in terms of population	fatalities/100,000 people	8	21		28
Number of injuries in terms of population	injuries/100,000 people	3	7		9
		7	20		31
<b>FISCAL COST</b>					
		Vietnam	Vietnam	Vietnam	Vietnam
		1980	1990	1995	2000
<b>Expenditure on transport as share of GDP</b>					
Expenditure on transport capital investment as share of GDP	%			2.13%	
Expenditure on transport maintenance as share of GDP	%				
Expenditure on highways as share of GDP	%			1.64%	
Expenditure on railways as share of GDP	%			0.24%	
Expenditure on waterways as share of GDP	%			0.10%	
Expenditure on aviation as share of GDP	%			0.06%	
Ratio road user charges & capital expenditure highways	%				

[1] Source: GTZ Fuel Price Surveys Report 1998

[2] Three fares were collected for railways in the routes Hanoi-HCMC and Hanoi Danang: Hard Seat, Soft Seat, and Soft Sleeper.

[3] The passenger costs were calculated using an average exchange rate for the month of January 1999 = 13,385 Dong = 1US\$

[4] Fare for Vietnamese citizens in economy class. The fare for foreigners is almost doubled (1.9 times) in economy and 2.5 times in business class.