

**Table 3-1. Phases of Growth by Major Region, 1820-1992**  
(annual average compound growth rate)

	1820-70	1870-1913	1913-50	1950-73	1973-92	1820-1992
<b>GDP</b>						
Western Europe	1.7	2.1	1.4	4.7	2.2	2.2
Western Offshoots	4.3	3.9	2.8	4.0	2.4	3.6
Southern Europe	1.0	1.5	1.3	6.3	3.1	2.1
Eastern Europe	1.6	2.4	1.6	4.7	-0.4	2.0
Latin America	1.5	3.3	3.4	5.3	2.8	3.0
Asia <sup>a</sup>	0.2	1.1	1.0	6.0	5.1	1.9
Africa	0.4	1.1	3.0	4.4	2.8	1.9
World	1.0	2.1	1.9	4.9	3.0	2.2
<b>Population</b>						
Western Europe	0.7	0.7	0.5	0.8	0.3	0.6
Western Offshoots	2.8	2.1	1.2	1.5	1.0	1.9
Southern Europe	0.3	0.4	0.9	1.4	1.4	0.8
Eastern Europe	0.9	1.3	0.4	1.2	0.7	0.9
Latin America	1.3	1.8	1.9	2.7	2.3	1.8
Asia <sup>a</sup>	0.1	0.6	0.9	2.1	1.9	0.9
Africa	0.3	0.7	1.9	2.4	2.9	1.3
World	0.3	0.8	0.9	1.9	1.8	1.0
<b>GDP per Capita</b>						
Western Europe	1.0	1.3	0.9	3.9	1.8	1.5
Western Offshoots	1.4	1.8	1.6	2.4	1.4	1.7
Southern Europe	0.6	1.1	0.4	4.9	1.7	1.4
Eastern Europe	0.7	1.0	1.2	3.5	-1.1	1.1
Latin America	0.2	1.5	1.5	2.5	0.5	1.1
Asia <sup>a</sup>	0.1	0.6	0.1	3.8	3.2	1.0
Africa	0.1	0.4	1.0	2.0	-0.1	0.6
World	0.6	1.3	0.9	2.9	1.2	1.2

a) includes Oceania.

Source: Derived from Appendix G.

Table 3-2. **Phases of Per Capita Real GDP Growth in the 56 Sample Countries, 1820-1992**  
(annual average compound growth rates)

	1820-70	1870-1913	1913-50	1950-73	1973-92
<b>12 West European Countries</b>					
Austria	0.7	1.5	0.2	4.9	2.2
Belgium	1.4	1.0	0.7	3.5	1.9
Denmark	0.9	1.6	1.6	3.1	1.6
Finland	0.8	1.4	1.9	4.3	1.6
France	0.8	1.5	1.1	4.0	1.7
Germany	1.1	1.6	0.3	5.0	2.1
Italy	0.6	1.3	0.8	5.0	2.4
Netherlands	1.1	0.9	1.1	3.4	1.4
Norway	0.5	1.3	2.1	3.2	2.9
Sweden	0.7	1.5	2.1	3.1	1.2
Switzerland	n.a.	1.5	2.1	3.1	0.8
UK	1.2	1.0	0.8	2.5	1.4
Arithmetic Average	0.9	1.3	1.2	3.8	1.8
<b>4 Western Offshoots</b>					
Australia	1.8	0.9	0.7	2.4	1.4
Canada	1.2	2.2	1.4	2.9	1.5
New Zealand	n.a.	1.2	1.3	1.7	0.5
USA	1.3	1.8	1.6	2.4	1.4
Arithmetic Average	1.4	1.5	1.3	2.4	1.2
<b>5 South European Countries</b>					
Greece	n.a.	n.a.	0.5	6.2	1.5
Ireland	1.2	1.0	0.7	3.1	2.7
Portugal	n.a.	0.5	1.2	5.7	2.1
Spain	0.5	1.2	0.2	5.8	1.9
Turkey	n.a.	n.a.	0.8	3.3	2.6
Arithmetic Average	n.a.	0.9	0.7	4.8	2.2
<b>7 East European Countries</b>					
Bulgaria	n.a.	n.a.	0.3	5.2	-1.4
Czechoslovakia	0.6	1.4	1.4	3.1	-0.1
Hungary	n.a.	1.2	0.5	3.6	0.0
Poland	n.a.	n.a.	n.a.	3.4	-0.6
Romania	n.a.	n.a.	n.a.	4.8	-1.6
USSR	0.6	0.9	1.8	3.4	-1.4
Yugoslavia	n.a.	n.a.	1.0	4.4	-0.5
Arithmetic Average	n.a.	1.2	1.0	4.0	-0.8

Table 3-2 (continued). **Phases of Per Capita Real GDP Growth in the 56 Sample Countries, 1820-1992**  
(annual average compound growth rates)

	1820-70	1870-1913	1913-50	1950-73	1973-92
<b>7 Latin American Countries</b>					
Argentina	n.a.	2.5	0.7	2.1	-0.2
Brazil	0.2	0.3	1.9	3.8	0.9
Chile	n.a.	n.a.	1.0	1.2	1.9
Colombia	n.a.	n.a.	1.4	2.3	1.9
Mexico	-0.1	1.7	1.0	3.1	1.1
Peru	n.a.	n.a.	2.1	2.5	-1.7
Venezuela	n.a.	n.a.	5.3	1.6	-0.8
Arithmetic Average	n.a.	1.5	1.9	2.4	0.4
<b>11 Asian Countries</b>					
Bangladesh	n.a.	n.a.	-0.3	-0.6	2.2
Burma	n.a.	n.a.	-1.3	1.8	1.3
China	0.0	0.6	-0.3	2.9	5.2
India	0.1	0.4	-0.3	1.6	2.4
Indonesia	0.1	0.8	-0.1	2.5	3.1
Japan	0.1	1.4	0.9	8.0	3.0
Pakistan	n.a.	n.a.	-0.3	1.8	2.7
Philippines	n.a.	n.a.	-0.2	1.8	0.7
South Korea	n.a.	n.a.	-0.2	5.2	6.9
Taiwan	n.a.	n.a.	0.4	6.2	6.2
Thailand	n.a.	0.4	0.0	3.2	5.3
Arithmetic Average	0.1	0.7	-0.2	3.1	3.5
<b>10 African Countries</b>					
Côte d'Ivoire	n.a.	n.a.	n.a.	3.1	-2.2
Egypt	n.a.	n.a.	0.0	2.7	3.8
Ethiopia	n.a.	n.a.	n.a.	1.7	-1.7
Ghana	n.a.	n.a.	1.7	0.2	-1.2
Kenya	n.a.	n.a.	n.a.	1.9	0.6
Morocco	n.a.	n.a.	n.a.	0.1	1.8
Nigeria	n.a.	n.a.	n.a.	3.2	0.1
South Africa	n.a.	n.a.	1.2	2.4	-0.6
Tanzania	n.a.	n.a.	n.a.	1.9	-0.5
Zaire	n.a.	n.a.	n.a.	0.8	-3.9
Arithmetic Average	n.a.	n.a.	1.0	1.8	-0.4

Source: Derived from Appendix D.

Table 3-3. **Gross Nominal Value of Capital Invested Abroad in 1914**  
(\$ million at current exchange rates)

	Western Europe	Western Offshoots	Southern Europe	Eastern Europe	Latin America	Asia	Africa	Total
UK	263	8 254	248	618	3 682	2 873	2 373	18 311
France	1 255	386	1 332	2 663	1 158	830	1 023	8 647
Germany	1 310	1 000	835	834	905	238	476	5 598
USA	674	900	3	29	1 649	246	13	3 514
Belgium, Netherlands & Switzerland	990	535	837	1 350	796	413	579	5 500
Japan, Russia, Portugal & Sweden	100	100	0	100	200	1 500	200	2 200
Total	4 592	11 175	3 255	5 594	8 390	6 100	4 664	43 770

Source: UK, France and Germany from Feis (1965), pp. 23, 51 and 74. USA from Lewis (1938) pp. 606 and 654-5. Other countries from UN (1949) p. 2. This source gives a total of \$5.5 billion for Belgium, the Netherlands and Switzerland with no breakdown. I assumed that the distribution of these countries' investment was the same as that of France and Germany combined. The UN gives a figure of \$2.2 billion for Japan, Portugal, Russia and Sweden combined. My allocation of the investments of these 4 countries is based on rough guesses of their geographic interests, and reference to the breakdown in 1938.

Table 3-4. **Length of Railway Line in Service, 1870-1950**  
(kilometres)

	1870	1913	1950		1870	1913	1950
Belgium	2 897	4 676	4 046	Argentina	732	33 478	42 864
Denmark	770	3 868	4 815	Brazil	745	24 614	36 681
Finland	483	3 560	4 726	Chile	732	8 070	8 503
France	15 544	40 770	41 300	Colombia	0	1 061	3 526
Germany	18 876	63 378	36 924	Mexico	349	20 447 <sup>a</sup>	23 332
Italy	6 429	18 873	21 550	Peru	669	3 276	3 097
Netherlands	1 419	3 305	3 204	Venezuela	13	858	997
Norway	359	3 085	4 469				
Sweden	1 727	14 377	16 516	China	0	9 854	22 238
Switzerland	1 421	4 832	5 152	India	7 678	55 822	54 845
UK	21 500	32 623	31 352	Indonesia	80	4 967	6 616 <sup>b</sup>
				Japan	0	10 570	27 401
Australia	1 529	31 453	44 579	Thailand	0	956	1 796
Canada	4 211	47 160	69 167				
USA	85 170	401 977	360 137	Côte d'Ivoire	0	316	834
				Egypt	1 184	4 358	5 625
Portugal	714	2 958	3 590	Ethiopia	0	311	784
Spain	5 295	15 088	18 098	Ghana	0	337	862
Turkey	180	5 438	7 671	Kenya	0	855	4 917
				Morocco	0	427	1 695
Russia/USSR	10 731	70 156	116 900	Nigeria	0	1 506	3 063
				South Africa	0	14 149	20 175
				Tanzania	0	1 435	2 147 <sup>c</sup>
				Zaire	0	1 507	4 764

a) 1912; b) 1951; c) 1947

Source: Mitchell (1982, 1983 and 1992).

Table 3.5. **Total Government Expenditure as a Percentage of GDP at Current Prices, 1880-1992**

	1880	1913	1938	1950	1973	1992
France	11.2	8.9	23.2	27.6	38.8	51.0 <sup>d</sup>
Germany	10.0 <sup>a</sup>	17.7	42.4	30.4	42.0	46.1 <sup>d</sup>
Japan	9.0 <sup>b</sup>	14.2	30.3	19.8	22.9	33.5
Netherlands	n.a.	8.2 <sup>c</sup>	21.7	26.8	45.5	54.1
UK	9.9	13.3	28.8	34.2	41.5	51.2
USA	n.a.	8.0	19.8	21.4	31.1	38.5
Average	10.0	11.7	27.7	26.7	40.0	45.7

a) 1881; b) 1885; c) 1910; d) 1990.

Source: Maddison (1984 and 1991) to 1973; 1992 from OECD *National Accounts, 1980-1992*, Paris, 1994.

Table 3-6. **Annual Growth Performance of Major Regions, 1913-50**  
(aggregate GDP of regions in billion 1990 \$)

	Western Europe	Western Offshoots	Southern Europe	Eastern Europe	Latin America	Asia	Africa	Total for 56 Sample Countries
1913	732.3	583.4	83.8	365.8	94.2	657.7	36.9	2554.1
1914	696.6	539.9			89.0	667.9		
1915	714.4	553.5			89.8	684.0		
1916	742.6	626.2			92.5	710.9		
1917	717.1	614.1			92.9	730.3		
1918	687.8	661.0			96.9	698.6		
1919	654.2	663.9			97.8	742.9		
1920	667.5	660.4			104.5	718.3		
1921	659.5	645.7			104.1	752.0		
1922	718.3	682.0			110.6	762.1		
1923	720.1	765.8			121.7	764.1		
1924	774.8	790.1			126.2	779.5		
1925	813.8	812.0			128.8	791.9		
1926	813.1	860.9			135.5	807.8		
1927	857.6	872.5			141.7	818.9		
1928	892.9	885.6			153.1	841.9		
1929	922.3	934.2	116.2	403.4	158.3	858.3	57.5	3450.1
1930	899.1	855.5		414.3	152.1	853.8		
1931	850.2	787.0		413.8	142.1	854.5		
1932	824.4	691.3	114.8	402.4	138.0	879.6	62.5	3112.5
1933	859.1	677.9		413.0	151.4	899.3		
1934	887.6	729.8		438.5	162.8	862.7		
1935	925.7	784.4		483.6	170.6	903.3		
1936	969.4	889.2		519.8	180.0	956.2		
1937	1 017.6	930.1		549.4	189.7	965.1		
1938	1 040.7	899.2	115.6	586.5	194.0	959.0	73.8	3868.9
1939	1 099.8	966.1			202.7	986.9		
1940	1 079.6	1 042.5			205.2	999.1		
1941	1 084.3	1 224.5			216.0	997.3		
1942	1 074.4	1 463.1			214.8	982.3		
1943	1 070.9	1 731.4			220.7	982.7		
1944	1 015.4	1 865.3			239.4	944.5		
1945	898.4	1 791.5			247.9	819.1		
1946	916.6	1 450.0			271.2	813.9		
1947	977.1	1 436.7			288.3	824.2		
1948	1 047.1	1 488.7	132.1	576.5	307.2	833.4	97.5	4 482.4
1949	1 132.4	1 500.6	132.6	636.3	318.1	843.0	100.3	4 663.3
1950	1 220.4	1 629.7	137.2	694.0	332.4	898.5	103.1	5 015.2

*Source:* This table refers only to the 56 sample countries. The regional totals are derived from the individual country estimates in Appendix C. For Western Europe and Western Offshoots, there were no gaps in the country estimates. For Southern Europe, Eastern Europe and Africa there were too many gaps to make annual estimates feasible. For Latin America, there was a gap for Mexico for 1914-20, where this was a period of revolution and civil war: I assumed the Mexican 1913 level to prevail in 1914-20. For Colombia, there was a gap for 1914-24. Here I assumed that the annual GDP movement for the missing years was parallel to that in the other six countries. For Asia the estimates were complete for India (including what later became Bangladesh and Pakistan 1913-46), for Indonesia, Korea and Taiwan. For China I interpolated the years 1914-28 and 1939-46, and took the 1947-49 movement from Rawski (1989). For Burma, Philippines and Thailand I interpolated the years 1914-28, 1930-37, and 1939-49.

Table 3-7. **Biggest Cyclical (Peak to Trough) GDP Movement Within the Years 1928-1935**

Austria	-22.5	Bulgaria	-12.7
Belgium	-7.9	Czechoslovakia	-18.2
Denmark	-3.6	Hungary	-9.4
Finland	-4.0	Poland	-20.7
France	-14.7	Romania	-5.6
Germany	-24.5	USSR	-1.1
Italy	-5.5	Yugoslavia	-11.9
Netherlands	-7.8	Arith. Average	-9.6
Norway	-7.8		
Sweden	-6.2	Argentina	-13.7
Switzerland	-8.0	Brazil	-4.4
UK	-5.8	Chile	-30.0
Arith. Average	-9.9	Colombia	-1.5
		Mexico	-20.8
Australia	-9.2	Peru	-25.8
Canada	-29.6	Venezuela	-22.6
New Zealand	-14.6	Arith. Average	-17.0
USA	-28.5		
Arith. Average	-20.5	Bangladesh	-0.9
		Burma	n.a.
Greece	-6.5	China	-8.7
Ireland	n.a.	India	-0.9
Portugal	n.a.	Indonesia	-9.3
Spain	-6.1	Japan	-7.3
Arith. Average	n.a.	Korea	-1.5
		Pakistan	-0.9
		Philippines	n.a.
		Taiwan	-6.2
		Thailand	n.a.
		Arith. Average	-4.4

Source: Appendix C.

Table 3-8. **Movement in GDP, 1938-44**

Austria	+18.0	Argentina	+24.0
Belgium	-15.7	Brazil	+19.4
Denmark	+1.8	Chile	+20.0
Finland	+4.9	Colombia	+18.4
France	-49.7	Mexico	+38.9
Germany	+24.2	Peru	+16.3
Netherlands	-46.7	Venezuela	+18.1
Norway	-12.7		
Sweden	+20.9	India	+17.1
Switzerland	-0.8	Indonesia	-42.2
UK	+22.0	Japan	+16.6
		Korea	-1.7
Australia	+32.4	Taiwan	-39.7
Canada	+75.4		
New Zealand	+9.6		
USA	+114.4		
Spain	+30.5		
Bulgaria	-8.8		

Source: Appendix C.

Table 3-9. **Stock of Passenger Cars in Use (44 Countries), 1913-73**  
(000s)

	1913	1950	1973		1913	1950	1973
Austria	12	49	1 541	Bangladesh	-	3	23
Belgium	10	274	2 390	Burma	-	8	32
Denmark	3	118	1 245	India	-	154	690
Finland	-	27	894	Indonesia	-	31	483
France	91	1 500	14 500	Japan	-	48	14 473
Germany	61	516	17 023	Korea	-	2	78
Italy	22	342	13 424	Pakistan	-	16	177
Netherlands	4	139	2 957	Philippines	-	45	319
Norway	1	60	838	Taiwan	-	3	95
Sweden	3	252	2 503	Thailand	-	10	215
Switzerland	5	147	1 652				
UK	106	2 258	13 497	Côte d'Ivoire	-	3a	45
				Egypt	-	60	167
Portugal	-	61	770	Ethiopia	-	5	46
Spain	-	89	3 804	Ghana	-	7	55
				Kenya	-	17	81
Australia	n.a.	768	4 520	Morocco	-	38	281
Canada	29	1 913	7 866	Nigeria	-	7	150
USA	1 190	40 339	101 986	South Africa	-	471	1 737
				Tanzania	-	7	40
Argentina	-	318	1 914	Zaire	-	11	78
Brazil	-	200	3 386				
Chile	-	40	225				
Colombia	-	31	327				
Mexico	-	173	1 767				
Peru	-	32	247				
Venezuela	-	70	820				

a) 1954.

Source: Mitchell (1982, 1983 and 1992 with revisions kindly supplied by Brian Mitchell).

Table 3-10. **Variations in Volume of Merchandise Exports, 47 Countries, 1820-1992**  
(annual average compound growth rate in export volume)

	1820-70	1870-1913	1913-1950	1950-73	1973-92
Austria	4.5	3.5	-3.0	10.7	6.5
Belgium	5.4 <sup>a</sup>	4.2	0.3	9.2	3.7
Denmark	1.9 <sup>b</sup>	3.3	2.4	6.9	4.7
Finland	n.a.	3.9	1.9	7.2	2.8
France	4.0	2.8	1.1	8.2	4.4
Germany	4.8 <sup>c</sup>	4.1	-2.8	12.4	4.0
Italy	3.4	2.2	0.6	11.6	4.8
Netherlands	n.a.	2.3 <sup>d</sup>	1.5	10.4	3.7
Norway	n.a.	3.2	2.7	7.3	6.7
Sweden	7.0 <sup>e</sup>	3.1	2.8	6.9	2.7
Switzerland	4.1	3.9	0.3	8.1	2.7
UK	4.9	2.8	0.0	3.9	3.9
Arith. Average	4.4	3.2	0.7	8.6	4.2
Australia	n.a.	4.8	1.3	5.6	5.0
Canada	n.a.	4.1	3.1	7.0	4.6
USA	4.7	4.9	2.2	6.3	5.1
Arith. Average	n.a.	4.6	2.2	6.3	4.9
Greece	n.a.	n.a.	n.a.	11.9	6.2
Ireland	n.a.	n.a.	n.a.	6.8	8.8
Portugal	n.a.	n.a.	n.a.	5.7	8.5
Spain	3.7 <sup>f</sup>	3.5	-1.6	9.2	8.0
Turkey	n.a.	n.a.	n.a.	4.3	7.9
Arith. Average	n.a.	n.a.	n.a.	7.6	7.9
Argentina	n.a.	5.2 <sup>g</sup>	1.6	3.1	5.8
Brazil	n.a.	1.9	1.7	4.7	7.1
Chile	n.a.	3.4 <sup>h</sup>	1.4	2.4	9.2
Colombia	n.a.	2.0	3.9	3.8	6.1
Mexico	n.a.	5.4 <sup>i</sup>	-0.5	4.3	9.7
Peru	n.a.	5.3	2.7	5.8	-1.1
Venezuela	n.a.	n.a.	5.4	4.0	-1.3
Arith. Average	n.a.	3.9	2.3	4.0	5.1
Bangladesh	n.a.	2.4	-1.5	2.0	8.6
China	n.a.	2.6	1.1	2.7	11.0
India	n.a.	2.4	-1.5	2.5	3.9
Indonesia	n.a.	4.2	2.3	6.5	7.5
Japan	n.a.	8.5	2.0	15.4	6.2
Pakistan	n.a.	2.4	-1.5	3.6	8.7
Philippines	n.a.	2.8 <sup>j</sup>	3.7	5.9	7.0
Korea	n.a.	-	-1.1	20.3	12.8
Taiwan	n.a.	-	2.6	16.3	10.8
Thailand	n.a.	4.1	2.3	4.4	12.9
Arith. Average	n.a.	3.7	0.8	8.0	8.9



Table 3-10 (continued)

	1820-70	1870-1913	1913-50	1950-73	1973-92
Côte d'Ivoire	n.a.	n.a.	n.a.	n.a.	8.2
Egypt	n.a.	2.7	1.2	2.1	1.6
Ethiopia	n.a.	n.a.	n.a.	7.0	-4.3
Ghana	n.a.	6.7	3.1	2.1	2.5
Kenya	n.a.	n.a.	n.a.	6.8 <sup>k</sup>	4.0
Morocco	n.a.	n.a.	n.a.	n.a.	4.3
Nigeria	n.a.	6.0	n.a.	7.9 <sup>k</sup>	-2.4
South Africa	n.a.	8.1	n.a.	6.2	7.0
Tanzania	n.a.	n.a.	n.a.	7.1 <sup>k</sup>	-2.2
Zaire	n.a.	n.a.	n.a.	2.7	-5.2
Arith. Average	n.a.	5.9	2.2	5.2	1.4
World	4.2	3.4	1.3	7.0	3.7

a) 1831-70; b) 1844-70; c) 1840-70; d) 1872-1913; e) 1851-70; f) 1826-70; g) 1877-1912; h) 1888-1913; i) 1877/8 to 1910/11; j) 1882-1912; k) goods and services.

Source: Appendix I, except for African countries, which were derived from 1950 onwards from World Bank, *World Tables*, 1983 and 1994 editions, supplemented by UN trade statistics. 1870-1950 from national sources and Lewis (1981). 1870-1913 volume movement for Egypt, Ghana, Nigeria and South Africa derived by deflating export values by UK import unit value index.

Table 3-11. Gross Non-Residential Capital Stock Per Person Employed, 1950-92

	1950	1973	1992	1950	1973	1992
	(in 1990 international dollars)			(USA = 100)		
France	18 120	48 815	103 162	31	57	92
Germany	18 312	58 210	101 855	32	68	91
Netherlands	29 564	65 787	87 962	51	77	78
UK	12 444	35 399	64 892	22	42	58
Japan	7 752	34 777	113 376	13	41	101
USA	57 600	85 178	112 261	100	100	100

Source: Maddison (1995a).

Table 3-12. Years of Education Per Person Aged 15-64, 20 Countries, 1950-92  
(average for both sexes)

	1950	1973	1992	1950	1973	1992
	(equivalent years of primary education)			(USA = 100)		
Belgium	9.83	11.99	15.24	87	82	84
France	9.58	11.69	15.96	85	80	88
Germany	10.40	11.55	12.17	92	79	67
Italy	5.49	7.62	11.20	49	52	62
Netherlands	8.12	10.27	13.34	72	70	74
Sweden	9.50	10.44	14.24	84	72	79
UK	10.84	11.66	14.09	96	80	78
Portugal	2.53	4.62	9.11	22	32	50
Spain	5.13	6.29	11.51	46	43	64
USA	11.27	14.58	18.04	100	100	100
Argentina	4.80	7.04	10.70	43	48	59
Brazil	2.05	3.77	6.41	18	26	36
Chile	5.47	7.98	10.93	49	55	61
Colombia	2.66	4.91	9.14	24	34	51
Mexico	2.60	5.22	8.22	23	36	46
Venezuela	2.21	4.41	10.18	20	30	56
India	1.35	2.60	5.55	12	18	31
Japan	9.11	12.09	14.86	81	83	82
Korea	3.36	6.82	13.55	30	47	75
Taiwan	3.62	7.35	13.83	32	50	77

Source: Updated from Maddison (1989 and 1995b) and from estimates supplied by André Hofman. Primary education was given a weight of 1, secondary 1.4, and higher 2, in line with evidence on the relative earnings associated with the different levels of education.

**Table 3-13a. Rate of Growth of Labour Productivity (GDP per Hour Worked), Advanced Capitalist Countries, 1870-1992**  
(annual average compound growth rate)

	1870-1913	1913-50	1950-73	1973-92
Austria	1.7	0.9	5.9	2.5
Belgium	1.2	1.4	4.5	2.9
Denmark	1.9	1.5	4.5	1.7
Finland	1.8	2.2	5.4	2.2
France	1.7	1.9	5.1	2.7
Germany	1.9	0.6	6.0	2.7
Italy	1.7	2.0	5.8	2.4
Netherlands	1.3	1.3	4.8	2.2
Norway	1.6	2.5	4.2	3.2
Sweden	1.8	2.8	4.1	1.3
Switzerland	1.5	2.7	3.3	1.7
UK	1.2	1.6	3.1	2.2
Arith. Average	1.6	1.8	4.7	2.3
Australia	1.1	1.4	2.9	1.5
Canada	2.3	2.3	3.0	1.5
USA	1.9	2.5	2.7	1.1
Japan	1.9	1.9	7.7	3.1

a) 1973-91.

Source: Table J-4.

**Table 3-13b. Rate of Growth of Labour Productivity (GDP per Hour Worked) in Medium- and Low-Income Countries, 1950-92**  
(annual average compound growth rate)

	1950-73	1973-92		1950-73	1973-92
Greece	6.4	2.5 <sup>a</sup>	Argentina	2.4	0.5
Ireland	4.3	4.1 <sup>a</sup>	Brazil	3.7	0.9
Portugal	6.0	1.9	Chile	2.9	1.0
Spain	6.4	3.3	Colombia	3.3	1.5
Arithmetic Average	5.8	3.0	Mexico	4.0	0.5
			Peru	3.4	-1.8
Czechoslovakia	3.4	0.1	Venezuela	3.4	-0.8
Hungary	3.9	0.6	Arithmetic Average	3.3	0.3
Poland	3.8	0.4			
USSR	3.4	-0.8	Bangladesh	0.3	1.9
Arithmetic Average	3.6	0.1	China	2.1	4.1
			India	2.0	2.8
			Indonesia	2.6	3.1
			Pakistan	2.8	2.9
			Philippines	2.7	0.6
			South Korea	4.1	5.2
			Taiwan	5.6	5.3
			Thailand	3.6	5.1
			Arithmetic Average	2.9	3.4

a) 1973-91.

Source: Table J-4.

Table 3-14. East European Economic Performance in Phases IV and V

	GDP Growth		Per Capita GDP Growth		GDP Per Hour Worked		Number of Years in which GDP below Previous Peak	
	1950-73	1973-92	1950-73	1973-92	1950-73	1973-92	1950-73	1973-92
	annual average compound growth rates							
Bulgaria	6.0	-1.5	5.2	-1.4	6.1	n.a.	2	12
Czechoslovakia	3.8	0.2	3.1	-0.1	3.4	0.1	2	4
Hungary	4.1	-0.0	3.6	0.0	3.9	0.6	2	7
Poland	4.8	0.1	3.4	-0.6	3.8	0.4	2	12
Romania	5.9	-1.1	4.8	-1.6	6.2	n.a.	n.a.	10
USSR	4.8	-0.5	3.4	-1.4	3.4	-0.8	2	5
Yugoslavia	5.6	0.2	4.4	-0.5	n.a.	n.a.	2	6
Average	5.0	-0.4	4.0	-0.8	4.5	0.1	2	8

Source: Appendices C, D and J.

Table 3-15. African Economic Performance in Phases IV and V

	GDP Growth		Per Capita GDP Growth		Population Growth		GDP Deflator	
	1950-73	1973-92	1950-73	1973-92	1950-73	1973-92	1950-73	1973-92
	annual average compound growth rates							
Côte d'Ivoire	6.3	1.6	3.1	-2.2	3.1	3.9	3.4 <sup>a</sup>	6.7
Egypt	5.1	6.3	2.7	3.8	2.3	2.4	1.9	12.7
Ethiopia	4.1	1.3	1.7	-1.7	2.3	3.0	1.4 <sup>a</sup>	4.1
Ghana	3.6	1.6	0.2	-1.2	3.4	2.8	5.7	40.5
Kenya	5.0	4.3	1.9	0.6	3.0	3.7	2.2	10.6
Morocco	2.7	4.3	0.1	1.8	2.6	2.5	3.7 <sup>b</sup>	7.8
Nigeria	5.2	2.7	3.2	0.1	2.0	2.6	5.4	19.0
South Africa	4.9	1.8	2.4	-0.6	2.4	2.4	4.0	14.0
Tanzania	4.4	2.7	1.9	-0.5	2.5	3.1	3.3 <sup>b</sup>	20.5
Zaire	4.1	-0.9	0.8	-3.9	3.3	3.2	25.6 <sup>b</sup>	52.0 <sup>c</sup>
Average	4.5	2.6	1.8	-0.4	2.7	3.0	5.7	18.8

a. 1960-73; b. 1955-73; c. 1973-89.

Source: Appendices A, C and D. GDP deflators from World Bank, *World Tables*, various issues. South Africa from national sources.

Table 3-16. **Latin American Performance in Phases IV and V**

	GDP Growth		Per Capita GDP Growth		GDP Per Hour Worked		GDP Deflator	
	1950-73	1973-94	1950-73	1973-94	1950-73	1973-92	1950-73	1973-94
	annual average compound growth rates							
Argentina	3.8	1.6	2.1	0.2	2.4	0.5	26.8	258.4
Brazil	6.8	3.4	3.8	1.0	3.7	0.9	28.4	268.5
Chile	3.4	3.7	1.2	2.1	2.9	1.0	48.1	71.8
Colombia	5.2	4.0	2.3	2.0	3.3	1.5	10.4	24.6
Mexico	6.4	3.4	3.1	0.9	4.0	0.5	5.6	37.6
Peru	5.3	1.4	2.5	-1.0	3.4	-1.8	8.6	125.2
Venezuela	5.4	1.7	1.6	-1.2	3.4	-0.8	2.3	21.5
Average	5.2	2.7	2.4	0.6	3.3	0.3	18.6	115.4

Source: Appendices C, D and J. GDP deflators from Maddison (1989) and ECLAC sources.

Table 3-17. **Asian Performance in Phases IV and V**

	GDP Growth		Per Capita GDP Growth		GDP Per Hour Worked		GDP Deflator	
	1950-73	1973-92	1950-73	1973-92	1950-73	1973-92	1950-73	1973-92
	annual average compound growth rates							
Bangladesh	1.7	4.5	-0.6	2.2	0.3	1.9	5.0	11.9
Burma	3.8	3.3	1.8	1.3	n.a.	n.a.	1.4	13.2
China	5.1	6.7	2.9	5.2	2.1	4.1	n.a.	n.a.
India	3.7	4.7	1.6	2.4	2.0	2.8	4.4	8.5
Indonesia	4.5	5.3	2.5	3.1	2.6	3.1	77.5	13.6
Japan	9.2	3.8	8.0	3.0	7.7	3.1	5.2	3.9
Pakistan	4.4	5.9	1.8	2.7	2.8	2.9	3.4	9.6
Philippines	5.0	3.1	1.8	0.7	2.7	0.6	4.6	13.7
South Korea	7.6	8.3	5.2	6.9	4.1	5.2	30.1	12.3
Taiwan	9.3	7.8	6.2	6.2	5.6	5.3	7.2	6.1
Thailand	6.4	7.5	3.2	5.3	3.6	5.1	2.6	6.2
Average	5.5	5.5	3.1	3.5	3.4	3.4	14.1	9.9
Average (ex Japan)	5.2	5.7	2.6	3.6	2.9	3.4	15.1	10.6

Source: Appendices C, D and J. GDP Deflators from Maddison (1989) p. 70, World Bank, *World Tables*, various issues, and national sources for Taiwan.

Table 3-18. Performance of OECD Economies in Phases IV and V

	GDP Growth		Per Capita GDP Growth		GDP Per Hour Worked		Number of Years in which GDP below Previous Peak	
	1950-73	1973-94	1950-73	1973-94	1950-73	1973-92	1950-73	1973-94
	annual average compound growth rates							
Austria	5.3	2.3	4.9	2.0	5.9	2.5	0	3
Belgium	4.1	1.9	3.5	1.8	4.5	2.9	2	3
Denmark	3.8	1.9	3.1	1.7	4.5	1.7	0	3
Finland	4.9	1.9	4.3	1.5	5.4	2.2	0	4
France	5.0	2.1	4.0	1.6	5.1	2.7	0	2
Germany	6.0	2.2	5.0	1.8	6.0	2.7	1	3
Italy	5.6	2.5	5.0	2.2	5.8	2.4	0	2
Netherlands	4.7	2.1	3.4	1.4	4.8	2.2	1	4
Norway	4.1	3.3	3.2	2.8	4.2	3.2	1	1
Sweden	3.7	1.4	3.1	1.0	4.1	1.3	0	7
Switzerland	4.5	1.1	3.1	0.7	3.3	1.7	1	9
UK	3.0	1.7	2.5	1.5	3.1	2.2	1	8
Average	4.6	2.0	3.8	1.7	4.7	2.3	0.6	4.1
Greece	7.0	2.1	6.2	1.3	6.4	2.5 <sup>a</sup>	1	4
Ireland	3.2	3.6	3.1	2.8	4.3	4.1 <sup>a</sup>	3	1
Portugal	5.7	2.5	5.7	1.8	6.0	1.9	0	5
Spain	6.8	2.3	5.8	1.7	6.4	3.3	1	3
Turkey	6.1	4.5	3.3	2.1	5.2 <sup>b</sup>	3.0 <sup>b</sup>	1	2
Average	5.8	3.0	4.8	1.9	5.7	3.0	1.2	3
Australia	4.7	2.9	2.4	1.5	2.9	1.5	1	1
Canada	5.1	2.9	2.9	1.4	3.0	1.5	1	5
New Zealand	3.7	1.6	1.7	0.9	n.a.	n.a.	6	9
USA	3.9	2.5	2.4	1.5	2.7	1.1	2	4
Average	4.4	2.5	2.4	1.3	2.9	1.4	2.5	4.8

a) 1973-91; b) refers to GDP per person employed with no adjustment for changes in working hours.

Source: Appendices C, D and J.

**Table 3-19. Unemployment Rates in OECD Countries, 1950-92**  
(per cent of the labour force)

	1929	1938	1950	1973	1992
Austria	5.5	8.1	3.9	1.1	3.6
Belgium	0.8	8.7	5.0	2.4	10.3
Denmark	8.0	10.5	4.0	0.9	9.0
Finland	2.8	2.6	1.0	2.3	13.0
France	1.2	3.7	2.0	2.7	10.2
Germany	5.9	1.3	8.2	1.0	5.8
Italy	1.7	4.6	6.9	6.2	11.4
Netherlands	1.7	9.9	2.8	3.0	6.7
Norway	5.4	5.8	1.2	1.5	5.9
Sweden	2.4	5.1	1.7	2.5	5.3
Switzerland	0.4	3.3	0.0	0.0	2.6
UK	7.2	9.2	2.5	2.2	9.5
Average	3.6	9.1	3.3	2.2	7.8
Greece	n.a.	n.a.	n.a.	n.a.	7.7 <sup>a</sup>
Ireland	n.a.	n.a.	4.1	5.7	15.7 <sup>a</sup>
Portugal	n.a.	n.a.	2.8	2.5	4.0
Spain	n.a.	n.a.	1.5	2.5	18.1
Turkey	n.a.	n.a.	n.a.	n.a.	7.7
Average	n.a.	n.a.	2.8	3.6	10.6
Australia	8.2	8.1	1.5	2.3	10.7
Canada	2.9	11.4	3.6	5.5	11.2
New Zealand	n.a.	n.a.	n.a.	0.0	10.3
USA	3.1	18.8	5.2	4.8	7.3
Average	4.7	12.8	3.4	3.2	9.9
Japan	n.a.	n.a.	1.9	1.3	2.2

a) 1991.

Source: Maddison (1991) and OECD, *Labour Force Statistics*, various issues.

**Table 3-20. Average Labour Productivity Level in Major Regions in 1992**  
(USA =100)

	Per Person	Per Hour		Per Person	Per Hour
USA	100	100	Eastern Europe	25	23
Western Europe	84	87	Asia (ex Japan)	22	15
Japan	81	69	Africa	9	n.a.
Southern Europe (ex Turkey)	70	62			
Latin America	37	33			

Source: Appendix J.