

*Appendix F*

**Value and Volume of Exports, 1870–1998**

Table F-1. Value of Merchandise Exports at Current Prices (56 Countries), 1870–1998  
(million dollars at current exchange rate)

	1870	1913	1929	1950	1973	1990	1998
Austria	160	561	308	326	5 283	41 138	62 746
Belgium	133	717	884	1 652	22 450	118 328	177 662
Denmark	42 <sup>a</sup>	171	433	665	6 248	35 135	46 915
Finland	9	78	162	390	3 837	26 572	42 963
France	541	1 328	1 965	3 082	36 675	210 169	305 492
Germany	424	2 454	3 212	1 993	67 563	409 958	543 292
Italy	208	485	783	1 206	22 226	170 383	242 147
Netherlands	158 <sup>b</sup>	413	800	1 413	27 348	131 787	182 753
Norway	22	105	199	390	4 726	34 045	39 649
Sweden	41	219	486	1 103	12 201	57 542	84 739
Switzerland	132 <sup>b</sup>	226	404	894	9 538	63 793	75 439
United Kingdom	971	2 555	3 550	6 325	29 640	185 326	271 850
Total	2 841	9 352	13 186	19 439	247 735	1 484 176	2 075 627
Australia	98	382	592	1 668	9 559	39 760	55 896
Canada	58	421	1 141	3 020	26 437	127 634	214 335
New Zealand	12	112	259	514	2 596	9 394	12 071
United States	403	2 380	5 157	10 282	71 404	393 592	682 497
Total	571	3 295	7 149	15 484	109 996	570 380	964 799
Greece	7	23	91	90	1 456	8 106	9 559
Ireland	–	–	225	203	2 129	23 747	64 333
Portugal	22	38	48	186	1 842	16 419	24 218
Spain	76	183	407	389	5 200	55 528	109 231
Total	105	244	771	868	10 627	103 800	207 341
Bulgaria	5 <sup>b</sup>	94	46	116	3 301	6 836	4 292
Czechoslovakia	–	–	606	779	6 035	11 882	37 083
Hungary	–	–	182	329	3 354	9 597	22 955
Poland	–	–	316	634	6 374	13 627	27 191
Romania	32 <sup>b</sup>	130	173	300	3 691	5 775	8 300
USSR	216	783	482	1 801	21 458	104 177	119 798
Yugoslavia	6 <sup>b</sup>	18	139	154	2 853	14 312	17 324
Total	259	1 025	1 944	4 113	47 066	166 206	236 943

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	<b>1870</b>	<b>1913</b>	<b>1929</b>	<b>1950</b>	<b>1973</b>	<b>1990</b>	<b>1998</b>
Argentina	29	515	908	1 178	3 266	12 353	25 227
Brazil	76	317	462	1 359	6 199	31 414	51 120
Chile	27	149	283	281	1 231	8 373	14 895
Colombia	18	34	124	394	1 177	6 766	10 852
Mexico	28 <sup>a</sup>	150	285	532	2 261	27 131	117 500
Peru	25 <sup>a</sup>	43	117	193	1 112	3 231	5 736
Venezuela	15 <sup>a</sup>	28	149	929	4 680	17 783	15 682
<b>Total</b>	<b>218</b>	<b>1 236</b>	<b>2 328</b>	<b>4 866</b>	<b>19 926</b>	<b>107 051</b>	<b>241 012</b>
Bangladesh	–	–	–	303	358	1 671	3 831
Burma	–	–	–	139	140	325	1 067
China	102	299	660	550	5 876	62 091	183 589
India	255	786	1 177	1 145	2 917	17 970	33 656
Indonesia	31	270	582	800	3 211	25 675	48 847
Japan	15	315	969	825	37 017	287 648	388 117
Pakistan	–	–	–	330	955	5 589	8 501
Philippines	29	48	163	331	1 885	8 068	27 783
South Korea	0	15	159	23	3 225	65 016	132 313
Taiwan	–	26	125	73	4 483	67 142	110 454
Thailand	7	43	94	304	1 564	23 071	54 455
Turkey	49 <sup>b</sup>	94	139	159	1 317	12 959	25 938
<b>Total</b>	<b>488</b>	<b>1 896</b>	<b>4 068</b>	<b>4 982</b>	<b>62 948</b>	<b>577 225</b>	<b>1 018 549</b>
Côte d'Ivoire	–	–	–	79	857	3 072	4 504
Egypt	66 <sup>a</sup>	156	253	504	1 121	4 957	3 130
Ethiopia	n.a.	n.a.	n.a.	37	239	298	560
Ghana	2	26	60	217	628	863	1 788
Kenya	n.a.	n.a.	34	57	516	1 031	2 007
Morocco	n.a.	n.a.	48	190	910	4 265	12 480
Nigeria	4	36	86	253	3 462	12 961	37 029
South Africa	14	342	454	1 158	6 114	22 834	25 396
Tanzania	n.a.	n.a.	18	68	61	331	675
Zaire	n.a.	n.a.	40	261	1 013	999	592
<b>Total</b>	<b>n.a.</b>	<b>n.a.</b>	<b>n.a.</b>	<b>2 824</b>	<b>14 921</b>	<b>51 611</b>	<b>73 333</b>

a) 1874; b) 1872; c) 1991.

Source: Maddison (1962 and 1989); League of Nations, *Review of World Trade 1938*, Geneva, 1939; UN, *Yearbook of International Trade Statistics*, New York, various issues; IMF, *International Financial Statistics*, Washington, D.C., various issues.

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Table F–2. Value of Merchandise Exports at Constant Prices (35 Countries), 1820–1998  
(million 1990 dollars)

	1820	1870	1913	1929	1950	1973	1998
Austria	47	467	2 024	1 746	1 348	13 899	69 519
Belgium	92	1 237	7 318	7 845	8 182	61 764	175 503
Denmark		314	1 494	2 705	3 579	16 568	49 121
Finland		310	1 597	2 578	3 186	15 641	48 697
France	487	3 512	11 292	16 600	16 848	104 161	329 597
Germany		6 761	38 200	35 068	13 179	194 171	567 372
Italy	339	1 788	4 621	5 670	5 846	72 749	267 378
Netherlands		1 727 <sup>a</sup>	4 329	7 411	7 411	71 522	194 430
Norway		223	854	1 427	2 301	11 687	58 141
Sweden		713	2 670	4 167	7 366	34 431	103 341
Switzerland	147	1 107	5 735	5 776	6 493	38 972	78 863
United Kingdom	1 125	12 237	39 348	31 990	39 348	94 670	277 243
Total	n.a.	30 396	119 482	122 983	115 087	730 235	2 219 205
Australia		455	3 392	3 636	5 383	18 869	69 324
Canada		724	4 044	7 812	12 576	60 214	243 015
United States	251	2 495	19 196	30 368	43 114	174 548	745 330
Total	n.a.	3 674	26 632	41 816	61 073	253 631	1 057 669
Spain	137	850	3 697	3 394	2 018	15 295	131 621
USSR		n.a.	6 666	3 420	6 472	58 015	119 978
Argentina		222	1 963	3 096	2 079	4 181	23 439
Brazil		854	1 888	2 592	3 489	9 998	49 874
Chile		166	702	1 352	1 166	2 030	18 228
Colombia		114	267	811	1 112	2 629	11 117
Mexico		242	2 363	3 714	1 999	5 238	70 261
Peru		202	409	1 142	1 172	4 323	6 205
Venezuela		n.a.	1 374	2 593	9 722	23 779	29 411
Total		2 126	8 966	15 300	20 739	52 178	208 535
Bangladesh		-	-	-	284	445	4 146
Burma		-	-	-	269	235	1 075
China		1 398	4 197	6 262	6 339	11 679	190 177
India		3 466	9 480	8 209	5 489	9 679	40 972
Indonesia		172	989	2 609	2 254	9 605	56 232
Japan		51	1 684	4 343	3 538	95 105	346 007
Pakistan		-	-	-	720	1 626	9 868
Philippines		55	180	678	697	2 608	22 712
South Korea		0	171	1 292	112	7 894	204 542
Taiwan		-	70	261	180	5 761	100 639
Thailand		88	495	640	1 148	3 081	48 752
Total		5 230	17 266	24 294	21 030	147 733	1 025 122

a) 1872

Source: Volume movement in Western Europe, Western Offshoots and Japan from A. Maddison, *Dynamic Forces in Capitalist Development*, OUP, 1991, Appendix F, updated from OECD, *Economic Outlook*, December 1999. Spain 1826-1980 from A. Carreras, ed., *Estadísticas Históricas de España: Siglos XIX-XX*, Fundación Banco Exterior, Madrid, 1989, pp. 346-7. USSR, Latin America and Asia from sources cited in A. Maddison, *The World Economy in the Twentieth Century*, OECD Development Centre, 1989, p. 140, updated with volume movements derivable from IMF, *International Financial Statistics*, various issues. Brazil 1870-1913 from R.W. Goldsmith, *Brasil 1850-1984: Desenvolvimento Financeiro Sob um Século de Inflação*, Harper and Row, Sao Paulo, 1986, pp. 54-5 and 110-111; Peru 1870-1950 from S.J. Hunt, "Price and Quantum Estimates of Peruvian Exports, 1830-1962", Discussion Paper 33, Research Program in Economic Development, Princeton University, January 1973, (1929 weights for 1900-50, 1900 weights for 1870-1900); Venezuela 1913-29 from A. Baptista, *Bases Cuantitativas de la Economía Venezolana 1830-1989*, C. Corporativas, Caracas, 1991, and 1929-92 from ECLAC sources. 1990-8 movements from ADB, OECD, ECLAC, IMF.

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**Table F-3. Value of World Exports by Region at Constant Prices, 1870–1998**  
(million 1990 dollars)

	<b>1870</b>	<b>1913</b>	<b>1950</b>	<b>1973</b>	<b>1990</b>	<b>1998</b>
Western Europe	32 428	127 839	121 535	773 726	1 597 933	2 490 596
Western Offshoots	3 783	27 425	62 892	254 128	570 380	1 071 432
Eastern Europe & former USSR	2 100	8 726	14 780	127 285	166 252	237 148
Latin America	2 709	10 910	25 235	66 155	139 611	286 043
Asia	7 000	22 900	41 800	372 170	883 309	1 577 571
Africa	2 325	14 625	29 379	97 184	99 277	154 290
World	50 345	212 425	295 621	1 690 648	3 456 762	5 817 080

Source: 1950–98 from IMF *International Financial Statistics*, various issues, supplemented by UN *Yearbook of International Trade Statistics*, various issues. 1870–1950 export volume movement for Western Europe as a whole assumed to move parallel to the 13 country total shown in Table F-2; for Western Offshoots parallel to the three country total in Table F-2; Latin America parallel to the seven country total in Table F-2 (adjusted to include Venezuela for 1870). Asian total assumed to move parallel to sum of the Asian countries shown in Table F-2, with adjustment to include West Asian oil exports. Eastern Europe and former USSR and Africa 1870–1913 are guesstimates based on partial value figures of Table F-1 and unit value estimates for areas with similar commodity structures.

**Table F-4. Rate of Growth in Volume of Merchandise Exports, 11 Countries and World, 1870–1998**  
(annual average compound growth rates)

	<b>1870–1913</b>	<b>1913–50</b>	<b>1950–73</b>	<b>1973–98</b>
France	2.8	1.1	8.2	4.7
Germany	4.1	–2.8	12.4	4.4
Netherlands	2.3	1.5	10.4	4.1
United Kingdom	2.8	0.0	3.9	4.4
Spain	3.5	–1.6	9.2	9.0
United States	4.9	2.2	6.3	6.0
Mexico	5.4	–0.5	4.3	10.9
Brazil	1.9	1.7	4.7	6.6
China	2.6	1.1	2.7	11.8
India	2.4	–1.5	2.5	5.9
Japan	8.5	2.0	15.4	5.3
World	3.4	0.9	7.9	5.1

Source: Derived from Tables F-2 and F-3.

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Table F-5. Merchandise Exports as Per Cent of GDP in 1990 Prices, 11 Countries and World, 1870–1998

	<b>1870</b>	<b>1913</b>	<b>1929</b>	<b>1950</b>	<b>1973</b>	<b>1998</b>
France	4.9	7.8	8.6	7.6	15.2	28.7
Germany	9.5	16.1	12.8	6.2	23.8	38.9
Netherlands	17.4	17.3	17.2	12.2	40.7	61.2
United Kingdom	12.2	17.5	13.3	11.3	14.0	25.0
Spain	3.8	8.1	5.0	3.0	5.0	23.5
United States	2.5	3.7	3.6	3.0	4.9	10.1
Mexico	3.9	9.1	12.5	3.0	1.9	10.7
Brazil	12.2	9.8	6.9	3.9	2.5	5.4
China	0.7	1.7	1.8	2.6	1.5	4.9
India	2.6	4.6	3.7	2.9	2.0	2.4
Japan	0.2	2.4	3.5	2.2	7.7	13.4
World	4.6	7.9	9.0	5.5	10.5	17.2

Source: Tables F-2, F-3, and B-18. See Maddison (1997), Table 13 for a comparison of ratios at current and constant prices. As export prices have risen less over the long run than GDP deflators, the ratios for earlier years are higher in current than in 1990 prices, e.g. the UK ratio in current prices for 1870 was 17.3; for 1913, 20.9; for 1950, 14.4 and for 1973, 16.3.

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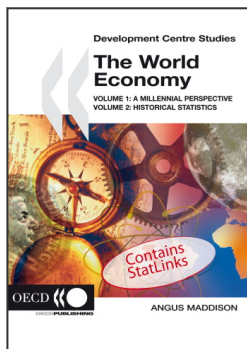
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