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Federal Communications Commission  
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Washington, D. C. 20554

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This is an unofficial announcement of Commission action. Release of the full text of a Commission order constitutes official action. See *MCI v. FCC*, 515 F.2d 385 (D.C. Circ 1974).

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September 3, 1999

## FCC RELEASES INTERNATIONAL TRENDS REPORT

The FCC has released *Trends in the U.S. International Telecommunications Industry*, a report that contains economic, financial, and operating statistics regarding international communications.

The report consists of 26 statistical tables tracing trends in the U.S. international telecommunications industry. These tables contain international traffic, circuit, pricing and accounting rate information. The prior version of this report, released August 1998, contains extensive explanations of the tables, analysis of industry trends, a discussion of the graphs, and a technical appendix summarizing changes in filing requirements over time.

The report is available for reference in the FCC's Reference Information Center, Courtyard Level, 445 12th Street, SW, Washington, D.C. 20554. Copies may be purchased by calling International Transcription Services, Inc. (ITS) at (202) 857-3800. The report, including the spreadsheets containing the report's statistical tables and the figures, can be downloaded [file name: ITLTRD99.PDF or ITLTRD99.ZIP] from the **FCC-State Link** internet site at <http://www.fcc.gov/ccb/stats> on the World Wide Web.

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For additional information, contact Linda Blake or Jim Lande of the Common Carrier Bureau's Industry Analysis Division, (202) 418-0940, or for users of TTY equipment, call (202) 418-0484.

# TRENDS IN THE U.S. INTERNATIONAL TELECOMMUNICATIONS INDUSTRY

Linda Blake  
Jim Lande

Industry Analysis Division  
Common Carrier Bureau  
Federal Communications Commission  
September 1999



This report is available for reference in the FCC's Reference Information Center, Courtyard Level, 445 12th Street SW, Washington, D.C. 20554. Copies may be purchased by calling International Transcription Services, Inc. (ITS) at (202) 857-3800. The report can also be downloaded [file name: ITLTRD99.ZIP] from the **FCC-State Link** internet site (<http://www.fcc.gov/ccb/stats>) on the World Wide Web.

**Customer Response**

Publication: Trends in the U.S. International Telecommunications Industry, September 1999

You can help us provide the best possible information to the public by completing this form and returning it to the Industry Analysis Division of the FCC's Common Carrier Bureau.

1. Please check the category that best describes you:

- press
- current telecommunications carrier
- potential telecommunications carrier
- business customer evaluating vendors/service options
- consultant, law firm, lobbyist
- other business customer
- academic/student
- residential customer
- FCC employee
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- state or local government employee
- Other (please specify) \_\_\_\_\_

2. Please rate the report:   Excellent       Good       Satisfactory       Poor       No opinion

Data accuracy	( )	( )	( )	( )	( )
Data presentation	( )	( )	( )	( )	( )
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3. Overall, how do you rate this report?   Excellent       Good       Satisfactory       Poor       No opinion

( )	( )	( )	( )	( )
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4. How can this report be improved?

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5. May we contact you to discuss possible improvements?

Name:  
Telephone #:

Questions? Contact Linda Blake (202-418-0945) or [ LBLAKE@FCC.GOV ] or Jim Lande (202-418-0948) or [ JLANDE@FCC.GOV ]		
Fax this response to	Or	Mail this response to
202-418-0520		FCC/IAD Mail Stop 1600 F Washington, DC 20554

## TRENDS IN THE U.S. INTERNATIONAL TELECOMMUNICATIONS INDUSTRY

This report presents data relating to the international telecommunications industry and updates tables and graphs contained in the August 1998 edition. The updated tables contain international traffic and international circuit data through 1997 and some 1999 pricing and accounting rate information.<sup>1</sup> The August 1998 edition of this report contains extensive explanations of the tables, discussions of the graphs, and an analysis of industry trends.

Tables 1 through 17 present an overview of economic trends in the industry, focusing on traffic, revenue growth, and rates. Tables 18 through 22 provide information on the industry's changing market structure by presenting market-share data for various services, firms, and geographic markets. Tables 23 through 26 present data on telephone service accounting rates and net settlement payments for selected countries. Updated figures from the 1998 report follow the tables. These figures present many of the important trends in the industry in graphical form. Appendix A presents technical notes on the traffic data. Appendix B presents data on traffic between the United States and Canada. Appendix C presents data on traffic between the United States and Mexico. Appendix D : Sources of Additional Information

Much of the data presented in this report were previously published in the *Statistics of Communications Common Carriers* (SOCC). This report ties together data published in numerous annual editions to present long-term trends. Most of the international data published in the SOCC were filed by international carriers pursuant to Section 43.61 of the Commission's rules or in the old annual Form M reports. The Section 43.61 data also have been compiled in annual reports titled *Section 43.61 International Telecommunications Data*. Annual volumes of the SOCC and recent editions of the Section 43.61 international traffic report are available in the Federal Communications Commission's Reference Information Center, Courtyard Level, 445 12th Street SW, Washington, D.C. 20554, (202) 418-0270. Recent data from these sources are also available from the FCC-State Link internet site at (<http://www.fcc.gov/ccb/stats>) on the Internet's World Wide Web.

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<sup>1</sup> Carriers filed their final 1997 international traffic data on October 31, 1998. 1998 traffic data is not included in this report because final data will not be filed until October 31, 1999.

## Tables

### I. Service Growth, Facilities and Price Trends

Table 1:	International and Domestic Toll Service Revenues, 1950 to 1997
Table 2:	International Revenue and Operating Statistics
Table 3:	International Telephone Service Excluding Canada and Mexico
Table 4:	International Telephone Service Traffic Data
Table 5:	International Telex Service Traffic Data
Table 6:	International Telegraph Service Traffic Data
Table 7:	U.S. Minutes of International Telephone Service for Selected International Points
Table 8:	International Telephone Service by Region
Table 9:	U.S. Traffic Compared with World Traffic
Table 10:	International Private Line by Region
Table 11:	International Circuit Data for Selected Countries
Table 12:	Transatlantic Cable Systems
Table 13:	AT&T Residential Rates for Calls Lasting 3 Minutes to Selected International Points, 1950 - 1998
Table 14:	AT&T Basic Schedule Rates for Residential Customers
Table 15:	AT&T Basic Schedule Rates for Commercial Customers
Table 16:	AT&T Discount Rates
Table 17:	Revenue Per Minute for Selected Carriers

### II. Market Structure

Table 18:	Pure Resale Compared with Facilities-Based and Facilities-Resale International Telephone Service
Table 19:	Shares of End-user Revenue
Table 20:	Net Revenue from International Services by Carrier
Table 21:	Market Shares Based on Net Revenue from International Services by Carrier
Table 22:	Carrier Shares of International Telephone Service Revenues for Selected Countries

### III. Accounting Rates and Settlement Payments

Table 23:	Net Settlement Payments for Telephone Service to Selected Countries
Table 24:	Measures of the International Settlements Deficit
Table 25:	Telephone Service Accounting Rates for Selected Countries
Table 26:	Accounting Rates for Selected Countries in U.S. Dollars

## Figures

### I. Service Growth, Facilities and Price

- Figure 1: Individual International Service Revenues as a Percentage of Total International Revenues
- Figure 2: International Service Net Revenues as Percentages of Total Domestic and International Toll Revenues
- Figure 3: U.S. Carrier Billed Revenues by Service
- Figure 4: International Telephone Service U.S. Billed and Foreign Billed Minutes of Service
- Figure 5: International Telegraph Service Traffic Data
- Figure 6: International Telex Service Traffic Data
- Figure 7: Average Length of an International Telephone Call
- Figure 8: U.S. Billed Telephone Service Minutes by Country
- Figure 9: U.S. Billed Telephone Service Minutes by Groups of Countries
- Figure 10: U.S. Billed Telephone Service Minutes by Region
- Figure 11: COMSAT International Service Revenues
- Figure 12: International Rates Compared with Long-Haul Domestic Rates
- Figure 13: International Rates Compared with Overall Inflation and the CPI for Interstate MTS
- Figure 14: Rate Indexes of Basic Standard Period Rates and Discount Plan Rates
- Figure 15: Billings per Unit of U.S. Traffic by Service
- Figure 16: Year-to-Year Percent Increases in U.S. Billed Minutes

### II. Market Structure

- Figure 17: Net Revenues for International Telephone Service by Carrier
- Figure 18: Net Revenues for International Private Line Service by Carrier
- Figure 19: Market Shares for the Total International Services Market

### III. Accounting Rates and Settlement Payments

- Figure 20: Gross Settlement Amounts - Settlement Payments and Settlement Receipts
- Figure 21: U.S. Carrier Billed Revenues Before and After Settlements
- Figure 22: Billed Revenue per Minute Divided to Show U.S. Retained Revenue and Settlement Payments
- Figure 23: Billed Revenue per Minute Divided to Show U.S. Retained Revenue and Settlement Payments (excluding Canada and Mexico)
- Figure 24: U.S. Retained Revenue per Minute from U.S. Billed and Foreign Billed Traffic
- Figure 25: U.S. Retained Revenue per Minute from U.S. Billed and Foreign Billed Traffic (excluding Canada and Mexico)
- Figure 26: U.S. versus Foreign Settlement Amounts per Minute
- Figure 27: Net Settlement Payments by Groups of Countries
- Figure 28: Percentages of Net Settlement Payments by Groups of Countries
- Figure 29: Net Settlement Payments to Mexico, Germany, the Philippines, and Canada
- Figure 30: Net Settlement Payments by Region of the World
- Figure 31: Decline in Accounting Rates
- Figure 32: Net Settlement Payouts Compared with Settlement Rates

### Appendixes

- Appendix A: Notes on the Data.
- Appendix B: International Telephone Traffic with Canada
- Appendix C: International Telephone Traffic with Mexico
- Appendix D: Sources of Additional Data

Table 1. International and Domestic Toll Service Revenues, 1950 to 1997  
(Revenue in millions)

	International Service <u>1/</u>							Total Domestic	Total Toll <u>3/</u>	Total International as % of Total Toll	
	Telephone	Telex	Telegraph	Private Line		Miscellaneous	Resale <u>2/</u>				Total International
				Telephone	Record						
1950	\$9.0	\$39.3		\$0.2	\$1.1			\$49.5	\$1,195	\$1,245	4.0 %
1951	12.1	\$0.2	\$42.6	0.3	1.9			57.2	1,346	1,403	4.1
1952	15.4	0.4	41.3	0.3	2.8			60.3	1,475	1,535	3.9
1953	13.1	0.7	42.5	0.3	3.7			60.2	1,582	1,642	3.7
1954	13.7	0.8	45.0	0.2	4.3			64.0	1,732	1,796	3.6
1955	15.7	1.2	46.6	0.2	4.8			68.6	1,980	2,049	3.3
1956	18.7	1.9	49.8	0.3	5.3			76.0	2,201	2,277	3.3
1957	22.7	2.8	50.3	0.6	6.0			82.4	2,443	2,525	3.3
1958	27.8	3.6	50.2	1.4	6.8			89.8	2,590	2,680	3.4
1959	33.1	5.4	55.0	3.4	8.4			105.3	2,903	3,008	3.5
1960	42.3	7.5	57.9	7.1	7.5			122.3	3,121	3,243	3.8
1961	50.9	10.0	57.1	9.1	8.6			135.7	3,359	3,495	3.9
1962	61.4	12.2	56.2	11.1	9.5			150.3	3,636	3,786	4.0
1963	69.4	13.7	56.3	12.4	12.1			163.9	3,931	4,095	4.0
1964	85.3	17.2	58.0	13.6	14.6			188.7	4,426	4,615	4.1
1965	101.5	21.3	50.6	15.9	20.2			209.5	4,883	5,092	4.1
1966	128.6	27.3	49.7	17.6	29.0			252.2	5,591	5,843	4.3
1967	146.3	33.7	49.8	15.1	31.3			276.1	6,099	6,375	4.3
1968	176.3	44.3	50.5	15.4	36.6			323.1	6,803	7,126	4.5
1969	234.7	56.0	53.8	16.8	45.4			406.7	7,825	8,232	4.9
1970	252.2	63.1	53.1	15.5	49.9			433.8	8,522	8,956	4.8
1971	289.1	72.5	49.2	12.7	52.0			475.6	9,486	9,962	4.8
1972	357.1	88.3	44.8	14.2	57.7			562.2	10,761	11,323	5.0
1973	436.4	115.0	47.7	15.1	62.8			677.0	12,449	13,126	5.2
1974	508.9	142.7	52.3	12.9	64.1			781.0	13,801	14,582	5.4
1975	576.3	163.4	42.5	13.2	69.2			864.6	15,233	16,098	5.4
1976	677.7	188.0	37.3	14.1	74.8			991.9	17,688	18,680	5.3
1977	806.4	225.2	35.5	13.8	84.4			1,165.3	19,994	21,159	5.5
1978	975.5	267.3	37.1	14.0	93.3			1,387.3	23,039	24,426	5.7
1979	1,120.7	299.4	37.7	14.7	96.0			1,568.4	26,031	27,599	5.7
1980	2,097.2	324.9	62.6	14.8	100.0			2,599.5	28,402	31,001	8.4
1981	2,239.4	349.6	61.8	14.1	111.9			2,776.7	36,403	39,180	7.1
1982	2,382.1	363.3	56.4	14.3	123.7			2,939.8	40,979	43,919	6.7
1983	2,876.1	378.6	53.8	15.1	138.9			3,462.6	43,507	46,970	7.4
1984	3,197.0	393.8	45.6	7.2	150.4			3,794.0	47,362	51,156	7.4
1985	3,487.4	414.7	44.9	8.5	163.4			4,118.8	50,696	54,815	7.5
1986	4,004.4	389.6	41.6	10.7	164.2			4,610.5	52,857	57,468	8.0
1987	4,749.6	360.1	35.1	26.8	164.1		\$14.1	5,335.8	53,183	58,519	9.1
1988	5,799.8	310.1	29.7		194.2		65.3	6,333.8	56,266	62,600	10.1
1989	6,901.1	243.1	27.0		208.0		112.9	7,379.2	58,645	66,024	11.2
1990	8,042.3	196.1	23.9		201.4		166.9	8,463.8	58,328	66,792	12.7
1991	9,095.9	200.0	15.2		303.4	\$22.7	440.7	10,078.0	58,480	68,558	14.7
1992	10,178.9	155.4	15.6		313.4	24.1	511.4	11,198.8	60,784	71,983	15.6
1993	11,352.6	135.1	11.8		355.7	23.4	591.7	12,470.2	62,820	75,290	16.6
1994	12,254.9	122.7	12.4		431.8	25.3	1,120.6	13,967.7	66,758	80,726	17.3
1995	13,990.3	119.3	6.3		505.7	47.9	1,756.0	16,425.5	69,050	85,475	19.2
1996	14,078.7	118.9	5.0		649.2	26.1	3,637.0	18,515.0	74,766	93,281	19.8
1997	15,125.3	109.8	3.5		839.5	28.3	4,112.0	20,218.3	78,351	98,569	20.5

1/ For 1950 through 1979, international service revenue data are taken directly from *Statistics of Communications Common Carriers* (SOCC). The telephone data are based on Form M filings for AT&T, Hawaiian Telephone, Cuban American Telephone and Telegraph, and domestic ITT subsidiaries. The record data (telegraph, telex, and record private line) are based on Form O/R filings. International data for 1980 through 1997 are taken from Tables 4, 5, and 6 herein, and are based on 43.61 data reported in the SOCC. Traffic to Canada and Mexico are first included in 1980, which explains the jump in traffic shown for that year. For switched services, the data represent billed revenues for services from the domestic United States to foreign points.

2/ Includes pure resale revenues for all switched services. Virtually all of the revenues are for pure resale of IMTS. Before 1991, the resale revenues are also included in data for telephone service, and therefore are not added separately in Total International.

3/ The data for total domestic and international toll revenues for 1950 through 1980 are taken from Table 6.5 of the latest SOCC, and represent message telephone, WATS, private line and other toll service revenues (accounts 510 through 516) reported in the annual Form M filings. For 1981 through 1997, the total toll figures are from *Long Distance Market Shares*, and include toll revenues of all local and interexchange carriers.

Note: Some data for prior years have been revised.



Table 2. International Revenue and Operating Statistics  
(Revenue and settlement amounts in millions)

Category	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
<b>U.S. Billed Revenues 1/</b>																		
Telephone	\$2,097	\$2,239	\$2,382	\$2,876	\$3,197	\$3,487	\$4,004	\$4,750	\$5,800	\$6,901	\$8,042	\$9,096	\$10,179	\$11,353	\$12,255	\$13,990	\$14,079	\$15,125
Telex	\$325	\$350	\$363	\$379	\$394	\$415	\$390	\$360	\$310	\$243	\$196	\$200	\$155	\$135	\$123	\$119	\$119	\$110
Telegraph	\$63	\$62	\$56	\$54	\$46	\$45	\$42	\$35	\$30	\$27	\$24	\$15	\$16	\$12	\$12	\$6	\$5	\$4
Private Line	\$115	\$126	\$138	\$154	\$158	\$172	\$175	\$191	\$194	\$208	\$201	\$303	\$313	\$356	\$440	\$506	\$649	\$840
Miscellaneous												\$23	\$24	\$23	\$25	\$48	\$26	\$28
<b>Total Billed Revenues</b>	<b>\$2,599</b>	<b>\$2,777</b>	<b>\$2,940</b>	<b>\$3,463</b>	<b>\$3,794</b>	<b>\$4,119</b>	<b>\$4,611</b>	<b>\$5,336</b>	<b>\$6,334</b>	<b>\$7,379</b>	<b>\$8,464</b>	<b>\$9,637</b>	<b>\$10,687</b>	<b>\$11,878</b>	<b>\$12,855</b>	<b>\$14,669</b>	<b>\$14,878</b>	<b>\$16,106</b>
<b>Net Settlements 2/</b>																		
Telephone	(\$347)	(\$531)	(\$712)	(\$950)	(\$1,203)	(\$1,130)	(\$1,414)	(\$1,675)	(\$2,028)	(\$2,398)	(\$2,762)	(\$3,298)	(\$3,344)	(\$3,704)	(\$4,289)	(\$4,937)	(\$5,645)	(\$5,437)
Telex	\$13	\$1	\$8	\$6	\$23	\$21	\$11	\$9	\$3	\$5	\$1	\$2	\$8	(\$4)	(\$4)	(\$7)	(\$9)	(\$12)
Telegraph	(\$30)	(\$31)	(\$29)	(\$28)	(\$22)	(\$18)	(\$13)	(\$10)	(\$8)	(\$6)	(\$4)	\$0	(\$0)	\$0	\$0	\$1	\$1	\$0
Miscellaneous												\$17	\$11	\$14	\$9	\$2	\$10	(\$7)
<b>Total Net Settlements</b>	<b>(\$365)</b>	<b>(\$561)</b>	<b>(\$733)</b>	<b>(\$972)</b>	<b>(\$1,201)</b>	<b>(\$1,127)</b>	<b>(\$1,416)</b>	<b>(\$1,676)</b>	<b>(\$2,033)</b>	<b>(\$2,400)</b>	<b>(\$2,765)</b>	<b>(\$3,279)</b>	<b>(\$3,325)</b>	<b>(\$3,693)</b>	<b>(\$4,284)</b>	<b>(\$4,941)</b>	<b>(\$5,645)</b>	<b>(\$5,456)</b>
<b>Net Revenues</b>																		
Telephone	\$1,750	\$1,708	\$1,670	\$1,926	\$1,994	\$2,358	\$2,590	\$3,074	\$3,772	\$4,503	\$5,280	\$5,798	\$6,835	\$7,649	\$7,966	\$9,053	\$8,433	\$9,689
Telex	\$338	\$350	\$371	\$385	\$417	\$436	\$401	\$370	\$313	\$248	\$197	\$202	\$163	\$131	\$118	\$112	\$110	\$98
Telegraph	\$32	\$31	\$28	\$26	\$24	\$27	\$29	\$25	\$22	\$21	\$20	\$16	\$15	\$12	\$12	\$7	\$6	\$4
Private Line	\$115	\$126	\$138	\$154	\$158	\$172	\$175	\$191	\$194	\$208	\$201	\$303	\$313	\$356	\$432	\$506	\$649	\$840
Miscellaneous												\$40	\$35	\$37	\$34	\$50	\$36	\$21
<b>Total Net Revenue</b>	<b>\$2,235</b>	<b>\$2,216</b>	<b>\$2,207</b>	<b>\$2,491</b>	<b>\$2,593</b>	<b>\$2,992</b>	<b>\$3,195</b>	<b>\$3,659</b>	<b>\$4,301</b>	<b>\$4,979</b>	<b>\$5,699</b>	<b>\$6,358</b>	<b>\$7,362</b>	<b>\$8,185</b>	<b>\$8,563</b>	<b>\$9,729</b>	<b>\$9,234</b>	<b>\$10,651</b>
<b>Billed Revenue per Unit</b>																		
Telephone per Minute	\$1.34	\$1.21	\$1.09	\$1.09	\$1.05	\$1.03	\$0.99	\$1.02	\$1.06	\$1.07	\$1.06	\$1.01	\$1.00	\$1.00	\$0.92	\$0.88	\$0.74	\$0.67
Telex per Minute	\$2.47	\$2.26	\$2.23	\$2.14	\$2.14	\$2.19	\$2.17	\$2.30	\$2.51	\$2.69	\$2.68	\$3.13	\$3.02	\$2.71	\$2.66	\$2.46	\$2.52	\$2.34
Telegraph per Word	\$0.19	\$0.20	\$0.22	\$0.22	\$0.25	\$0.28	\$0.34	\$0.35	\$0.36	\$0.36	\$0.44	\$0.41	\$0.48	\$0.45	\$0.59	\$0.50	\$0.49	\$0.47
<b>Satellite Service</b>																		
Comsat 3/	\$161	\$189	\$250	\$291	\$278	\$285	\$320	\$334	\$244	\$273	\$303	\$360	\$395	\$415	\$423	\$414	\$411	\$403
<b>Resale of</b>																		
Telephone Service 4/							\$1	\$14	\$65	\$113	\$167	\$440	\$511	\$591	\$1,120	\$1,754	\$3,636	\$4,111

1/ U.S. billed revenues are the amounts billed by U.S. carriers. The amounts billed by foreign carriers are not known. The data in this table are derived from the annual publication *Statistics of Communications Common Carriers*. See Appendix A for information on reporting changes over time and adjustments made to published figures.

2/ Net settlements represents settlement receipts from foreign telephone companies minus settlement payments to foreign telephone companies. Starting with 1985, settlements include transiting traffic. There are no settlement payments associated with private line services.

3/ Comsat information includes business from Intelsat and Inmarsat.

4/ Carriers began reporting pure resale traffic separately from facilities-based traffic in 1991. The amounts shown for 1986 through 1990 are included in the billed revenue data presented above. Resale revenue for those years does not include the resale revenue of carriers that also provided facilities-based international telephone services. Pure resale international telephone service figures are from Section 43.61 International Telecommunications Data reports.

Table 3. International Telephone Service Excluding Canada and Mexico 1/  
(Total revenues and minutes in millions)

	U.S. Billed				Foreign Billed		Per Minute				Weighted average U.S. retained & foreign receipts
	Number of Minutes	Billed Revenue	Payout To PTT	Retained Revenue	Number of Minutes	Receipts from PTT	Billed Revenue	Payout To PTT	Retained Revenue	Receipts from PTT	
1964 <u>2/</u>	20	\$63	\$30	\$33	12	\$20	\$3.11	\$1.50	\$1.62	\$1.63	\$1.62
1965 <u>2/</u>	26	78	37	41	15	25	3.07	1.46	1.61	1.60	1.61
1966 <u>2/</u>	32	100	48	53	19	30	3.10	1.47	1.63	1.59	1.61
1967 <u>2/</u>	40	114	55	60	23	32	2.88	1.38	1.50	1.36	1.45
1968	46	127	62	65	28	40	2.73	1.33	1.41	1.42	1.41
1969	65	172	83	89	38	52	2.66	1.28	1.38	1.35	1.37
1970	81	197	99	98	51	60	2.43	1.22	1.21	1.17	1.19
1971	101	237	121	117	68	75	2.35	1.20	1.16	1.10	1.13
1972	127	292	148	144	92	99	2.31	1.17	1.14	1.08	1.11
1973	159	365	184	180	112	120	2.29	1.16	1.13	1.08	1.11
1974	191	429	217	212	142	152	2.25	1.14	1.11	1.07	1.09
1975	219	490	247	243	167	177	2.23	1.13	1.11	1.06	1.09
1976	273	601	303	298	197	207	2.20	1.11	1.09	1.05	1.08
1977	341	744	375	369	253	260	2.18	1.10	1.08	1.03	1.06
1978	456	954	496	458	346	315	2.09	1.09	1.01	0.91	0.96
1979	646	1,138	693	445	410	475	1.76	1.07	0.69	1.16	0.87
1980	811	1,605	834	772	486	567	1.98	1.03	0.95	1.17	1.03
1981	995	1,623	992	632	677	619	1.63	1.00	0.63	0.91	0.75
1982	1,253	1,719	1,257	461	819	756	1.37	1.00	0.37	0.92	0.59
1983	1,598	2,148	1,594	553	939	877	1.34	1.00	0.35	0.93	0.56
1984	1,916	2,449	1,809	640	1,047	847	1.28	0.94	0.33	0.81	0.50
1985	2,181	2,679	1,907	772	1,234	1,007	1.23	0.87	0.35	0.82	0.52
1986	2,643	3,054	2,305	749	1,356	1,139	1.16	0.87	0.28	0.84	0.47
1987	3,155	3,656	2,721	934	1,569	1,339	1.16	0.86	0.30	0.85	0.48
1988	3,768	4,446	3,171	1,274	1,901	1,554	1.18	0.84	0.34	0.82	0.50
1989	4,463	5,270	3,649	1,621	2,249	1,789	1.18	0.82	0.36	0.80	0.51
1990	5,276	6,306	4,198	2,109	2,543	2,009	1.20	0.80	0.40	0.79	0.53
1991	5,997	7,272	4,745	2,527	2,818	2,049	1.21	0.79	0.42	0.73	0.52
1992	6,653	8,091	4,780	3,311	3,128	2,069	1.22	0.72	0.50	0.66	0.55
1993	7,501	8,927	5,031	3,894	3,397	1,997	1.19	0.67	0.52	0.59	0.54
1994	8,950	9,716	5,554	4,161	3,698	2,006	1.09	0.62	0.46	0.54	0.49
1995	10,776	11,249	6,086	5,165	4,102	1,983	1.04	0.56	0.48	0.48	0.48
1996	13,276	11,288	6,665	4,623	4,401	1,857	0.85	0.50	0.35	0.42	0.37
1997	15,898	12,072	6,563	5,509	4,974	1,770	0.76	0.41	0.35	0.36	0.35

1/ Data in this table differ from data in other tables in this report because Canada and Mexico traffic have been removed. Data from *Statistics of Communications Common Carriers* have been adjusted to remove traffic between the conterminous U.S. and Alaska, Hawaii and Puerto Rico for 1964 through 1984. Data before 1985 include AT&T traffic, only.

2/ Both U.S. billed and foreign billed traffic include transiting traffic for 1964 through 1967.

Table 4. International Telephone Service Traffic Data <sup>1/</sup>  
(Message, minute and revenue amounts in millions)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	Recent annual rate of growth <sup>4/</sup>
U.S. Minutes	1,569	1,857	2,187	2,650	3,037	3,446	4,126	4,819	5,679	6,751	8,030	8,986	10,156	11,393	13,393	15,837	19,119	22,586	17.7%
Foreign Minutes <sup>2/</sup>	1,162	1,437	1,613	1,808	1,971	2,263	2,511	2,823	3,228	3,810	4,341	4,707	5,248	5,678	6,247	7,005	8,195	9,062	11.9%
Transiting Minutes												271	398	503	581	521	560	820	
Total Minutes	2,732	3,294	3,799	4,458	5,008	5,709	6,637	7,642	8,908	10,561	12,371	13,963	15,803	17,574	20,220	23,363	27,874	32,468	15.8%
U.S. Messages	199	233	274	322	367	411	482	570	687	835	984	1,371	1,643	1,926	2,313	2,821	3,485	4,229	21.1%
Foreign Messages	165	202	227	262	288	336	425	455	547	649	739	901	1,067	1,197	1,380	1,517	1,957	2,078	15.0%
Total Messages	364	435	501	584	655	747	907	1,025	1,233	1,485	1,723	2,272	2,710	3,124	3,694	4,338	5,442	6,307	18.9%
Average Minutes per Message																			
U.S. Calls	7.9	8.0	8.0	8.2	8.3	8.1	8.0	7.7	7.4	7.2	7.3	6.6	6.2	5.9	5.8	5.6	5.5	5.3	
Foreign Calls	7.0	7.1	7.1	6.9	6.8	6.7	6.3	5.9	5.4	5.3	5.3	5.2	4.9	4.7	4.5	4.6	4.2	4.4	
All Telephone Calls	7.5	7.6	7.6	7.6	7.6	7.6	7.6	7.5	7.2	7.1	7.2	6.1	5.8	5.6	5.5	5.4	5.1	5.1	
Billed Revenues	\$2,097	\$2,239	\$2,382	\$2,876	\$3,197	\$3,487	\$4,004	\$4,750	\$5,800	\$6,901	\$8,042	\$9,096	\$10,179	\$11,353	\$12,255	\$13,990	\$14,079	\$15,125	8.2%
Settlement Payments	\$1,063	\$1,330	\$1,674	\$2,036	\$2,269	\$2,398	\$2,865	\$3,423	\$4,039	\$4,735	\$5,297	\$5,792	\$5,945	\$6,308	\$6,947	\$7,559	\$8,206	\$8,008	7.0%
Retained Billed Revenue	\$1,034	\$910	\$708	\$841	\$928	\$1,089	\$1,140	\$1,327	\$1,761	\$2,166	\$2,745	\$3,304	\$4,234	\$5,044	\$5,307	\$6,432	\$5,873	\$7,117	9.7%
Settlement Receipts	\$716	\$799	\$961	\$1,086	\$1,066	\$1,243	\$1,396	\$1,671	\$1,906	\$2,213	\$2,426	\$2,369	\$2,434	\$2,416	\$2,443	\$2,455	\$2,418	\$2,429	-0.0%
Transiting Traffic Receipts												\$281	\$366	\$447	\$492	\$564	\$367	\$406	
Transiting Traffic Payments												\$156	\$199	\$258	\$276	\$397	\$225	\$264	
Net Settlement Payments	(\$347)	(\$531)	(\$712)	(\$950)	(\$1,203)	(\$1,159)	(\$1,477)	(\$1,789)	(\$2,199)	(\$2,620)	(\$2,981)	(\$3,298)	(\$3,344)	(\$3,704)	(\$4,289)	(\$4,937)	(\$5,645)	(\$5,437)	11.6%
Net Revenue <sup>3/</sup>	\$1,750	\$1,708	\$1,670	\$1,926	\$1,994	\$2,328	\$2,527	\$2,961	\$3,600	\$4,281	\$5,062	\$5,798	\$6,835	\$7,649	\$7,966	\$9,053	\$8,433	\$9,688	6.4%
Per Minute of U.S. Traffic:																			
U.S. Billings	\$1.34	\$1.21	\$1.09	\$1.09	\$1.05	\$1.01	\$0.97	\$0.99	\$1.02	\$1.02	\$1.00	\$1.01	\$1.00	\$1.00	\$0.92	\$0.88	\$0.74	\$0.67	
Settlement Payments	\$0.68	\$0.72	\$0.77	\$0.77	\$0.75	\$0.70	\$0.69	\$0.71	\$0.71	\$0.70	\$0.66	\$0.64	\$0.59	\$0.55	\$0.52	\$0.48	\$0.43	\$0.35	
Retained Revenue	\$0.66	\$0.49	\$0.32	\$0.32	\$0.31	\$0.32	\$0.28	\$0.28	\$0.31	\$0.32	\$0.34	\$0.37	\$0.42	\$0.44	\$0.40	\$0.41	\$0.31	\$0.32	
Per Minute of Foreign Traffic:																			
Settlement Receipts	\$0.62	\$0.56	\$0.60	\$0.60	\$0.54	\$0.55	\$0.56	\$0.59	\$0.59	\$0.58	\$0.56	\$0.50	\$0.46	\$0.43	\$0.39	\$0.35	\$0.30	\$0.27	
Per Transiting Minute - Revenue												\$0.46	\$0.42	\$0.37	\$0.37	\$0.32	\$0.25	\$0.17	
Net Revenue per Minute	\$0.64	\$0.52	\$0.44	\$0.43	\$0.40	\$0.41	\$0.38	\$0.39	\$0.40	\$0.41	\$0.41	\$0.42	\$0.43	\$0.44	\$0.39	\$0.39	\$0.30	\$0.30	
Percent Billings for Settlements	50.7%	59.4%	70.3%	70.8%	71.0%	68.8%	71.5%	72.1%	69.6%	68.6%	65.9%	63.7%	58.4%	55.6%	56.7%	54.0%	58.3%	52.9%	
Average Price for a U.S. call	\$10.53	\$9.61	\$8.70	\$8.92	\$8.71	\$8.20	\$7.77	\$7.60	\$7.56	\$7.34	\$7.28	\$6.63	\$6.20	\$5.89	\$5.30	\$4.96	\$4.04	\$3.58	

<sup>1/</sup> The data in this table are derived from the annual FCC publication *Statistics of Communications Common Carriers* (SOCC). The SOCC includes data for Canada and Mexico starting in 1991. Data for Canada and Mexico have been added to the SOCC data for 1980 through 1990. In addition, the SOCC data for 1980 through 1984 were adjusted to remove data for calls between the conterminous US and Alaska, Hawaii, and Puerto Rico. Starting in 1990, the SOCC includes international calls to and from Alaska and Hawaii. Starting in 1991, the SOCC shows totals with and without non-domestic traffic between U.S. points. The table uses the totals for foreign points, which exclude non-domestic traffic between U.S. points. Appendix A summarizes known inconsistencies in the data. Appendix B and Appendix C provide selected traffic data for service with Canada and Mexico, respectively. Transiting traffic was first published in the SOCC for 1991.

<sup>2/</sup> Many countries charge for service on the basis of metered pulses, rather than by call minutes as in the United States. The pulses are converted to minutes to facilitate settlements. U.S. carriers report these amounts as foreign billed minutes.

<sup>3/</sup> U.S. traffic generally exceeds foreign traffic. Since settlements payments are based on traffic, there is usually a net settlement payment by U.S. carriers, shown as a negative amount in the table. Net revenue is the retained revenue from U.S. billed calls plus the settlement amount from foreign billed calls. U.S. carriers report both settlement receipts and settlement payments for transiting calls in cases where the operating agreements have cascade billing arrangements. In a cascade billing arrangement, the U.S. carrier collects from the originating foreign carrier both the transit fee and the settlement amount that the originating foreign carrier will owe to the terminating foreign carrier. The U.S. carrier then makes the settlement payment.

<sup>4/</sup> The annual rates of growth were estimated by fitting a log linear regression to data for 1992 through 1997.

Table 5. International Telex Service Traffic Data <sup>1/</sup>  
(Message, minute, and revenue amounts in millions)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	Recent annual rate of growth <sup>3/</sup>
U.S. Minutes	132	154	163	177	184	189	179	156	123	90	73	64	51	50	46	49	47	47	-1.5%
Foreign Minutes	149	168	179	191	211	208	196	179	137	107	84	71	59	48	41	34	29	25	-15.6%
Transiting Minutes												29	25	23	21	17	16	15	
Total Minutes	281	322	342	368	395	397	376	335	260	197	157	164	135	121	107	99	93	87	-8.3%
U.S. Messages	51	59	64	69	74	72	69	61	47	33	25	21	15	15	13	13	13	12	-4.3%
Foreign Messages	50	56	60	65	72	73	69	62	46	35	25	21	18	15	12	10	9	8	-14.8%
Total Messages	101	115	124	134	146	145	138	124	93	68	51	42	33	29	25	23	22	20	-9.3%
Average Minutes per Message																			
U.S. Messages	2.6	2.6	2.6	2.6	2.5	2.6	2.6	2.5	2.6	2.7	2.9	3.1	3.3	3.4	3.5	3.7	3.6	3.9	
Foreign Messages	3.0	3.0	3.0	3.0	2.9	2.9	2.8	2.9	3.0	3.1	3.3	3.4	3.3	3.3	3.3	3.3	3.2	3.1	
All Telex Messages	2.8	2.8	2.8	2.7	2.7	2.7	2.7	2.7	2.8	2.9	3.1	3.9	4.1	4.1	4.2	4.3	4.2	4.4	
Billed Revenues	\$325	\$350	\$363	\$379	\$394	\$415	\$390	\$360	\$310	\$243	\$196	\$200	\$155	\$135	\$123	\$119	\$119	\$110	-5.9%
Settlement Payments	\$170	\$181	\$189	\$196	\$196	\$198	\$190	\$172	\$136	\$101	\$82	\$72	\$51	\$49	\$43	\$38	\$34	\$29	-10.9%
Retained Billed Revenue	\$155	\$169	\$174	\$183	\$197	\$217	\$199	\$188	\$174	\$142	\$114	\$128	\$105	\$86	\$79	\$82	\$85	\$81	-3.7%
Settlement Receipts	\$182	\$181	\$197	\$202	\$220	\$219	\$202	\$181	\$139	\$106	\$83	\$68	\$52	\$39	\$33	\$26	\$21	\$13	-22.6%
Transiting Traffic Receipts												\$41	\$34	\$30	\$28	\$23	\$19	\$15	
Transiting Traffic Payments												\$35	\$28	\$24	\$22	\$18	\$16	\$12	
Net Settlement Payments	\$13	\$1	\$8	\$6	\$23	\$21	\$11	\$9	\$3	\$5	\$1	\$2	\$8	(\$4)	(\$4)	(\$7)	(\$9)	(\$12)	16.7%
Net Revenue <sup>2/</sup>	\$338	\$350	\$371	\$385	\$417	\$436	\$401	\$370	\$313	\$248	\$197	\$202	\$163	\$131	\$118	\$112	\$110	\$98	-8.6%
Per Minute of U.S. Traffic:																			
U.S. Billings	\$2.47	\$2.26	\$2.23	\$2.14	\$2.14	\$2.19	\$2.17	\$2.30	\$2.51	\$2.69	\$2.68	\$3.13	\$3.02	\$2.71	\$2.66	\$2.46	\$2.52	\$2.32	
Settlement Payments	\$1.29	\$1.17	\$1.16	\$1.11	\$1.07	\$1.04	\$1.06	\$1.10	\$1.10	\$1.12	\$1.12	\$1.13	\$0.98	\$0.99	\$0.94	\$0.78	\$0.72	\$0.62	
Retained Revenue	\$1.18	\$1.09	\$1.07	\$1.03	\$1.07	\$1.15	\$1.11	\$1.20	\$1.41	\$1.57	\$1.56	\$2.00	\$2.04	\$1.72	\$1.73	\$1.68	\$1.80	\$1.71	
Per Minute of Foreign Traffic:																			
Settlement Receipts	\$1.22	\$1.08	\$1.10	\$1.06	\$1.04	\$1.05	\$1.03	\$1.01	\$1.01	\$0.99	\$0.99	\$0.95	\$0.89	\$0.82	\$0.80	\$0.76	\$0.70	\$0.54	
Per Transiting Minute - Revenue												\$0.22	\$0.25	\$0.26	\$0.30	\$0.29	\$0.24	\$0.23	
Net Revenue per Minute	\$1.20	\$1.09	\$1.08	\$1.05	\$1.06	\$1.10	\$1.07	\$1.10	\$1.20	\$1.26	\$1.26	\$1.23	\$1.21	\$1.08	\$1.10	\$1.13	\$1.18	\$1.12	
Percent Billings for Settlements	52.2%	51.7%	52.0%	51.7%	49.9%	47.7%	48.9%	47.8%	43.9%	41.6%	41.8%	36.1%	32.5%	36.6%	35.3%	31.6%	28.4%	26.5%	
Average Price for a U.S. Message	\$6.38	\$5.89	\$5.71	\$5.47	\$5.34	\$5.77	\$5.66	\$5.86	\$6.61	\$7.37	\$7.73	\$9.67	\$10.10	\$9.19	\$9.35	\$8.99	\$9.01	\$9.15	

<sup>1/</sup> The data in this table are derived from the annual FCC publication *Statistics of Communications Common Carriers* (SOCC). The SOCC includes data for Canada and Mexico starting in 1991. The SOCC data for 1980 through 1984 were adjusted to remove data for Alaska, Hawaii, and Puerto Rico. Starting in 1991, the SOCC shows totals with and without non-domestic traffic between U.S. points. The table uses the totals for foreign points, which exclude non-domestic traffic between U.S. points. Appendix A summarizes known inconsistencies in the data. Transiting traffic was first published in the SOCC for 1991.

<sup>2/</sup> Net revenue is the retained revenue from U.S. billed calls plus the settlement amount from foreign billed calls. U.S. carriers report both settlement receipts and settlement payments for transiting calls in cases where the operating agreements have cascade billing arrangements. In a cascade billing arrangement, the U.S. carrier collects from the originating foreign carrier both the transit fee and the settlement amount that the originating foreign carrier will owe to the terminating foreign carrier. The U.S. carrier then makes the settlement payment.

<sup>3/</sup> The annual rates of growth were estimated by fitting a log linear regression to data for 1992 through 1997.

Table 6. International Telegraph Service Traffic Data <sup>1/</sup>  
(Message, word, and revenue amounts in millions)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	Recent annual rate of growth <sup>3/</sup>
U.S. Words	321	306	258	240	185	158	124	99	82	75	54	37	33	26	21	13	10	8	-26.3%
Foreign Words	181	167	142	120	105	91	78	61	50	42	33	29	20	16	15	13	11	9	-14.2%
Transiting Words												12	9	10	11	7	6	5	
Total Words	502	473	400	361	290	249	202	160	132	117	87	78	62	52	47	33	27	21	-19.9%
U.S. Messages	7	6	5	5	3	3	2	2	2	1	1	1	1	1	1	0	0	0	-31.1%
Foreign Messages	5	5	4	3	3	2	2	2	1	1	1	1	1	1	1	0	0	0	-13.8%
Total Messages	12	11	9	8	6	5	4	3	3	2	2	2	2	1	1	1	1	0	-22.1%
Average Words per Message																			
U.S. Messages	47.5	49.5	50.4	49.6	53.8	56.3	55.4	54.0	46.6	52.6	44.7	42.5	39.8	36.7	23.4	26.7	51.3	51.0	
Foreign Messages	35.9	36.5	35.9	36.3	36.9	37.9	36.7	37.5	36.7	42.1	34.6	29.8	29.6	29.4	28.5	28.3	28.8	29.0	
All Telegraph Messages	42.6	44.0	44.1	44.2	46.1	47.9	46.3	46.3	42.2	48.3	40.2	42.6	41.3	41.3	33.1	35.3	46.8	46.1	
Billed Revenues	\$63	\$62	\$56	\$54	\$46	\$45	\$42	\$35	\$30	\$27	\$24	\$15	\$16	\$12	\$12	\$6	\$5	\$4	-26.2%
Settlement Payments	\$44	\$43	\$39	\$38	\$32	\$28	\$21	\$18	\$14	\$13	\$9	\$6	\$5	\$4	\$4	\$2	\$2	\$1	-22.5%
Retained Billed Revenue	\$19	\$19	\$18	\$16	\$14	\$17	\$20	\$17	\$16	\$14	\$14	\$9	\$10	\$8	\$8	\$4	\$3	\$2	-28.2%
Settlement Receipts	\$14	\$12	\$10	\$10	\$10	\$9	\$9	\$8	\$6	\$6	\$6	\$5	\$4	\$3	\$3	\$2	\$2	\$1	-16.8%
Transiting Traffic Receipts												\$4	\$3	\$3	\$4	\$3	\$2	\$1	
Transiting Traffic Payments												\$2	\$2	\$2	\$2	\$2	\$1	\$1	
Net Settlement Payments	(\$30)	(\$31)	(\$29)	(\$28)	(\$22)	(\$18)	(\$13)	(\$10)	(\$8)	(\$6)	(\$4)	\$0	(\$0)	\$0	\$0	\$1	\$1	\$0	Not Meaningful
Net Revenue <sup>2/</sup>	\$32	\$31	\$28	\$26	\$24	\$27	\$29	\$25	\$22	\$21	\$20	\$16	\$15	\$12	\$12	\$7	\$6	\$4	-24.4%
Per Word of U.S. Traffic:																			
U.S. Billings	\$0.19	\$0.20	\$0.22	\$0.22	\$0.25	\$0.28	\$0.34	\$0.35	\$0.36	\$0.36	\$0.44	\$0.41	\$0.48	\$0.45	\$0.59	\$0.50	\$0.49	\$0.47	
Settlement Payments	\$0.14	\$0.14	\$0.15	\$0.16	\$0.17	\$0.17	\$0.17	\$0.18	\$0.17	\$0.17	\$0.18	\$0.16	\$0.16	\$0.14	\$0.20	\$0.18	\$0.19	\$0.19	
Retained Revenue	\$0.06	\$0.06	\$0.07	\$0.07	\$0.08	\$0.11	\$0.16	\$0.17	\$0.20	\$0.19	\$0.27	\$0.25	\$0.32	\$0.31	\$0.39	\$0.32	\$0.30	\$0.28	
Per Word of Foreign Traffic:																			
Settlement Receipts	\$0.08	\$0.07	\$0.07	\$0.09	\$0.10	\$0.10	\$0.11	\$0.12	\$0.11	\$0.15	\$0.18	\$0.17	\$0.18	\$0.18	\$0.20	\$0.17	\$0.17	\$0.16	
Per Transiting Word - Revenue												\$0.11	\$0.14	\$0.12	\$0.11	\$0.13	\$0.12	\$0.07	
Net Revenue per Word	\$0.06	\$0.07	\$0.07	\$0.07	\$0.08	\$0.11	\$0.14	\$0.15	\$0.17	\$0.18	\$0.23	\$0.20	\$0.25	\$0.23	\$0.27	\$0.22	\$0.21	\$0.18	
Percent Billings for Settlements	70.2%	69.9%	68.8%	70.9%	69.3%	61.4%	51.6%	50.9%	46.0%	46.8%	39.7%	39.6%	32.8%	31.2%	33.4%	36.6%	38.0%	40.4%	
Average Price for a U.S. Message	\$9.27	\$10.01	\$11.01	\$11.11	\$13.30	\$15.95	\$18.66	\$19.15	\$16.94	\$18.86	\$19.82	\$17.62	\$18.94	\$16.54	\$13.82	\$13.30	\$25.20	\$24.12	

<sup>1/</sup> The data in this table are derived from the annual FCC publication *Statistics of Communications Common Carriers* (SOCC). The SOCC includes data for Canada and Mexico starting in 1991.

The SOCC data for 1980 through 1984 were adjusted to remove data for Alaska, Hawaii, and Puerto Rico. Starting in 1991, the SOCC shows totals with and without non-domestic traffic between U.S. points. The table uses the totals for foreign points, which exclude non-domestic traffic between U.S. points. Appendix A summarizes known inconsistencies in the data. Transiting traffic was first published in the SOCC for 1991.

<sup>2/</sup> U.S. traffic generally exceeds foreign traffic. Since settlements payments are based on traffic, there is usually a net settlement payment by U.S. carriers, shown as a negative amount in the table. Net revenue is the retained revenue from U.S. billed calls plus the settlement amount from foreign billed calls. U.S. carriers report both settlement receipts and settlement payments for transiting calls in cases where the operating agreements have cascade billing arrangements. In a cascade billing arrangement, the U.S. carrier collects from the originating foreign carrier both the transit fee and the settlement amount that the originating foreign carrier will owe to the terminating foreign carrier. The U.S. carrier then makes the settlement payment.

<sup>3/</sup> The annual rates of growth were estimated by fitting a log linear regression to data for 1992 through 1997.

Table 7. U.S. Minutes of International Telephone Service for Selected International Points  
(In thousands)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	Annual Growth Rate Since 1992 <sup>1/</sup>
Australia	10,610	13,639	17,114	21,817	26,444	32,396	41,074	55,123	68,855	82,225	93,632	99,107	113,213	126,113	156,656	201,269	282,048	388,696	28.7%
Brazil	13,413	15,992	20,041	25,984	32,654	39,501	53,573	56,311	71,805	90,603	108,755	122,458	144,691	171,414	221,824	282,946	372,780	495,238	28.3%
Canada <sup>2/</sup>	576,740	654,662	687,265	742,234	814,035	916,525	1,060,523	1,161,519	1,268,981	1,490,894	1,819,383	1,950,892	2,226,372	2,493,082	2,786,577	3,049,270	3,462,490	3,921,401	11.8%
China	840	961	1,207	1,495	2,123	3,242	5,266	10,283	17,006	25,847	32,774	47,320	68,424	110,128	169,295	230,937	298,054	375,494	40.1%
Colombia	17,885	24,926	36,068	55,868	64,351	66,053	81,963	95,375	108,033	121,078	132,505	150,362	172,431	200,185	231,098	256,463	284,827	263,319	9.8%
Dominican Rep.	17,135	20,700	24,473	49,670	41,563	51,450	78,350	89,800	118,548	146,502	165,016	217,888	249,403	253,347	309,695	410,483	415,726	374,378	11.5%
Egypt	2,208	3,253	4,738	9,736	12,828	15,401	17,841	20,267	23,119	27,749	30,562	38,077	43,905	49,004	56,919	68,649	89,734	110,058	20.7%
El Salvador	10,878	13,858	17,927	20,276	27,420	32,408	38,250	44,039	53,891	68,574	84,090	89,105	99,880	106,978	120,755	135,655	141,343	153,351	9.2%
France	35,359	41,258	50,196	61,798	74,360	86,954	99,511	119,030	145,407	172,073	201,571	210,390	239,790	263,575	304,864	362,832	442,041	502,446	16.8%
Germany <sup>3/</sup>	86,001	105,038	136,104	161,926	191,626	219,547	257,125	306,663	367,405	416,844	494,331	561,026	562,891	572,449	603,926	662,213	781,639	994,688	11.7%
Greece	13,574	16,254	20,486	26,289	30,228	34,179	40,229	43,534	48,225	52,429	57,927	61,054	69,961	75,532	82,130	86,475	90,547	97,032	6.6%
Guatemala	7,824	9,320	11,424	13,815	17,681	23,026	29,092	34,322	40,290	57,265	70,460	80,582	87,962	93,833	105,361	115,092	127,741	125,438	8.3%
Hong Kong	9,395	11,672	15,521	20,942	27,245	32,039	47,008	54,178	64,399	76,376	85,439	95,196	113,884	142,780	213,420	315,806	538,952	671,210	46.0%
India	3,355	4,289	5,462	7,300	13,089	15,524	20,187	25,818	33,456	45,435	58,848	71,345	97,788	134,140	191,513	285,662	423,843	574,281	43.8%
Israel	14,480	19,022	26,085	33,952	41,617	47,708	56,288	68,625	77,094	91,160	107,021	129,809	137,626	162,591	195,617	214,337	238,509	214,818	10.4%
Italy	32,885	38,578	47,179	57,051	69,212	81,061	93,283	111,603	127,803	145,860	169,174	178,264	207,212	229,594	250,782	279,385	333,969	476,026	16.7%
Jamaica	12,624	17,607	17,741	21,472	24,382	38,434	51,656	64,998	72,964	78,671	96,798	103,799	124,310	144,849	167,384	186,684	219,169	253,936	15.1%
Japan	36,717	45,568	58,542	72,250	91,374	109,117	137,916	175,739	231,797	272,927	319,754	335,721	362,989	397,230	465,717	576,246	698,566	844,632	19.1%
Korea, Rep. of	13,411	17,779	25,547	34,987	48,489	60,592	76,273	91,429	121,557	141,687	164,827	184,015	206,380	237,304	281,903	319,299	380,268	424,037	15.8%
Mexico <sup>2/</sup>	179,862	205,586	251,849	294,297	307,022	349,157	422,877	502,907	642,333	796,889	934,425	1,038,226	1,277,226	1,398,807	1,656,171	2,012,183	2,380,830	2,766,419	17.5%
Netherlands	15,851	16,434	19,199	22,190	25,699	29,552	34,961	41,575	52,755	62,116	70,964	78,090	92,709	107,258	130,420	163,595	207,026	222,670	20.7%
Nigeria	1,158	3,141	4,842	6,415	7,361	7,129	7,991	9,657	12,402	11,502	16,213	27,857	34,255	38,548	39,496	52,124	74,953	103,020	24.9%
Pakistan	987	2,621	3,826	8,098	12,234	11,643	16,949	23,795	27,852	35,573	42,906	55,301	64,251	68,664	84,134	107,244	133,582	161,002	21.6%
Peru	7,196	9,236	12,063	17,296	20,318	24,543	29,229	34,687	41,196	54,309	64,394	67,472	80,103	89,649	105,751	121,753	144,198	164,798	15.9%
Philippines	17,552	21,474	29,248	40,067	53,874	61,395	75,771	88,899	105,602	130,285	165,042	185,686	195,233	219,532	258,822	295,671	346,487	437,491	17.1%
Poland	843	1,670	1,287	3,752	9,523	16,032	21,825	34,225	42,181	53,739	64,264	69,185	73,869	81,568	110,312	133,351	160,410	170,501	20.1%
Russia <sup>4/</sup>	732	1,454	1,449	1,042	1,595	1,858	2,206	3,063	4,944	7,795	13,409	22,129	41,155	45,585	63,649	78,422	99,920	125,387	26.2%
Saudi Arabia	10,148	15,063	24,247	34,970	36,901	33,225	32,494	30,027	30,943	32,677	68,194	187,506	61,525	67,585	77,516	88,230	101,150	110,055	12.9%
South Africa	3,454	4,495	5,898	7,481	9,370	10,817	12,555	14,763	17,306	19,383	22,409	24,278	29,143	36,317	53,685	73,821	97,429	111,599	33.0%
Spain	15,597	13,042	16,571	19,597	23,237	27,490	32,232	39,376	48,738	57,348	69,000	84,772	105,557	109,459	119,366	130,320	147,228	190,935	11.9%
Switzerland	23,239	20,726	24,295	29,252	34,650	38,973	45,019	53,807	61,214	69,928	77,553	83,567	93,460	104,370	115,354	135,572	180,944	246,238	20.9%
Taiwan	8,248	11,027	17,591	26,723	36,002	45,223	61,229	73,100	86,141	100,519	120,170	127,984	162,534	184,310	225,592	271,604	321,021	378,710	19.0%
Thailand	2,896	3,574	5,350	8,147	11,010	13,963	19,941	21,110	25,256	31,404	38,427	43,943	53,118	62,830	78,302	92,331	114,408	117,057	18.4%
United Kingdom	132,712	162,407	185,082	210,570	250,094	299,311	354,726	420,142	485,418	543,964	627,434	662,889	733,377	799,805	905,959	1,025,044	1,225,859	1,553,253	15.9%
Sum of above countries	1,335,809	1,566,326	1,825,917	2,168,759	2,489,611	2,875,468	3,455,414	4,019,789	4,744,915	5,611,630	6,687,671	7,485,295	8,426,627	9,378,415	10,939,965	12,820,968	15,357,691	18,119,614	16.9%
Total For All Countries	1,569,150	1,857,207	2,186,565	2,649,683	3,037,022	3,446,265	4,126,061	4,819,218	5,679,412	6,750,673	8,029,739	8,985,797	10,156,212	11,392,816	13,393,191	15,837,132	19,119,052	22,586,407	17.7%
Selected as percent of total	85.1%	84.3%	83.5%	81.8%	82.0%	83.4%	83.7%	83.4%	83.5%	83.1%	83.3%	83.3%	83.0%	82.3%	81.7%	81.0%	80.3%	80.2%	
Canada, Mexico, Germany and UK as percent of total	62.2%	60.7%	57.6%	53.2%	51.5%	51.8%	50.8%	49.6%	48.7%	48.1%	48.3%	46.9%	47.3%	46.2%	44.4%	42.6%	41.1%	40.9%	

<sup>1/</sup> The annual rates of growth were estimated by fitting a log linear regression to traffic data for 1991 through 1996, except for Saudi Arabia, which is based on data for 1992 through 1997.

<sup>2/</sup> Most data have been taken from annual volumes of *Statistics of Communications Common Carriers*. Data for Canada and Mexico are taken from Appendix B and Appendix C, respectively.

<sup>3/</sup> Data for Federal Republic of Germany through 1990.

<sup>4/</sup> Data for the USSR through 1991. The 1992 figure includes traffic for the former Soviet republics.

**Table 8. International Telephone Service by Region**

**US Billed Minutes (in thousands) <sup>1/</sup>**

Year	Western Europe	Africa	Middle East	Caribbean	N. and Central America	South America	Asia	Oceania	E. Europe	Antarctica & Maritime	Total
1980	408,823	11,190	44,215	98,387	803,076	86,728	99,186	17,544	<u>2/</u>	1	1,569,150
1981	481,598	17,098	57,533	123,080	919,224	108,378	128,124	22,171	<u>2/</u>	1	1,857,207
1982	582,579	24,349	82,724	143,787	1,003,628	145,102	176,717	27,677	<u>2/</u>	2	2,186,565
1983	694,985	36,265	121,939	191,536	1,135,563	193,266	241,546	34,582	<u>2/</u>	1	2,649,683
1984	840,358	45,902	136,539	205,588	1,224,101	216,446	325,591	42,495	<u>2/</u>	1	3,037,022
1985	992,183	54,367	134,923	211,521	1,381,581	232,223	389,001	50,464	<u>2/</u>	1	3,446,264
1986	1,172,136	62,354	147,807	273,737	1,623,497	286,470	505,057	55,000	<u>2/</u>	2	4,126,060
1987	1,406,047	74,331	168,998	324,737	1,827,508	326,413	617,945	73,237	<u>2/</u>	2	4,819,217
1988	1,655,338	90,253	178,574	396,705	2,105,751	387,251	775,394	90,142	<u>2/</u>	3	5,679,412
1989	1,903,188	113,122	213,521	463,909	2,542,156	465,831	939,636	109,310	<u>2/</u>	3	6,750,675
1990	2,227,075	139,730	284,846	530,267	3,062,478	534,269	1,126,524	124,547	<u>2/</u>	4	8,029,740
1991	2,273,028	174,210	461,787	610,967	3,326,063	580,745	1,262,571	129,045	164,112	3,268	8,985,796
1992	2,506,566	204,900	347,902	681,267	3,882,931	715,660	1,473,809	146,942	192,533	3,701	10,156,211
1993	2,713,102	235,272	400,363	716,139	4,308,664	849,390	1,745,312	165,900	246,782	11,892	11,392,816
1994	3,017,507	303,369	474,164	870,610	4,918,310	1,028,605	2,226,637	206,223	337,457	10,308	13,393,190
1995	3,408,026	408,084	555,730	1,075,390	5,577,100	1,282,233	2,850,979	261,952	408,769	8,869	15,837,132
1996	4,073,314	522,324	654,529	1,221,275	6,399,135	1,582,822	3,756,276	370,367	534,644	4,365	19,119,051
1997	5,076,850	619,062	654,528	1,352,773	7,274,808	1,815,218	4,652,910	607,443	592,177	11,057	22,656,826
Annual rate of growth since 1992 <sup>3/</sup>	14.9%	26.5%	14.7%	16.2%	13.6%	21.2%	26.7%	32.1%	26.1%	6.8%	17.8%

<sup>1/</sup> International MTS data are derived from the annual FCC publication *Statistics of Communications Common Carriers*<sup>®</sup> (SOCC). The SOCC includes data for Canada and Mexico starting in 1991. AT&T data for Canada and Mexico have been added to the SOCC data for 1980 through 1990. In addition, the SOCC data for 1980 through 1984 were adjusted to remove data for Alaska, Hawaii, and Puerto Rico. Starting in 1991, the SOCC shows totals with and without non-domestic traffic between U.S. points. This table uses the totals for foreign points, which exclude non-domestic traffic between U.S. points. Appendix A summarizes known inconsistencies in the data. Appendix B and Appendix C provide selected traffic data for service with Canada and Mexico, respectively.

<sup>2/</sup> Data for countries in Eastern Europe and Western Europe were published together through 1990. The combined data are shown in the table as Western Europe data for those years.

<sup>3/</sup> The annual rates of growth were estimated by fitting a log linear regression to traffic data for 1992 through 1997.

**Table 8. International Telephone Service by Region**  
(continued)

**US Billed Revenues (in thousands) <sup>1/</sup>**

Year	Western Europe	Africa	Middle East	Caribbean	N. and Central America	South America	Asia	Oceania	E. Europe	Antarctica & Maritime	Total
1980	\$777,666	\$31,877	\$112,596	\$131,274	\$558,637	\$178,890	\$262,770	\$43,472	<u>2/</u>	\$2	\$2,097,184
1981	744,293	39,656	121,468	139,525	685,473	181,728	280,894	46,331	<u>2/</u>	2	2,239,371
1982	754,194	44,250	129,850	159,433	743,786	184,243	316,467	49,821	<u>2/</u>	6	2,382,050
1983	887,262	53,443	176,552	229,246	828,241	236,701	404,105	60,515	<u>2/</u>	3	2,876,069
1984	1,021,319	64,509	186,473	221,965	864,745	250,689	515,986	71,303	<u>2/</u>	3	3,196,992
1985	1,153,741	70,541	175,663	229,490	935,406	252,353	592,710	77,482	<u>2/</u>	4	3,487,392
1986	1,220,713	75,483	185,327	283,003	1,103,013	319,736	736,464	80,681	<u>2/</u>	4	4,004,425
1987	1,457,256	89,569	214,318	333,133	1,270,785	369,117	906,487	108,970	<u>2/</u>	5	4,749,641
1988	1,726,891	114,246	238,964	404,335	1,564,156	443,542	1,172,619	135,012	<u>2/</u>	7	5,799,773
1989	1,989,172	147,044	285,960	467,181	1,903,171	528,787	1,413,740	166,000	<u>2/</u>	7	6,901,061
1990	2,349,186	194,193	383,542	559,125	2,078,364	611,218	1,687,642	179,031	<u>2/</u>	9	8,042,312
1991	2,382,364	235,781	633,175	628,946	2,204,162	669,482	1,917,754	183,054	209,868	31,336	9,095,922
1992	2,590,865	304,180	476,396	691,624	2,531,751	822,559	2,255,814	204,336	263,865	37,530	10,178,920
1993	2,697,595	323,594	543,652	739,550	2,915,253	927,401	2,517,017	220,925	345,662	121,941	11,352,590
1994	2,762,071	405,676	578,152	843,791	3,076,379	1,055,078	2,766,842	241,460	439,199	86,285	12,254,933
1995	2,916,294	524,472	685,819	1,055,663	3,333,864	1,306,419	3,346,146	286,334	496,558	38,756	13,990,325
1996	2,718,856	563,183	691,814	1,041,685	3,388,491	1,346,394	3,447,761	353,410	496,716	30,368	14,078,678
1997	2,940,935	608,860	689,306	1,013,705	3,652,885	1,478,215	3,822,461	318,569	603,436	39,446	15,167,818
Annual rate of growth since 1992 <sup>3/</sup>	2.1%	16.6%	8.1%	9.5%	7.0%	13.0%	11.4%	11.5%	16.5%	-12.6%	8.2%

<sup>1/</sup> International MTS data are derived from the annual FCC publication *Statistics of Communications Common Carriers* (SOCC). The SOCC includes data for Canada and Mexico starting in 1991. AT&T data for Canada and Mexico have been added to the SOCC data for 1980 through 1990. In addition, the SOCC data for 1980 through 1984 were adjusted to remove data for Alaska, Hawaii, and Puerto Rico. Starting in 1991, the SOCC shows totals with and without non-domestic traffic between U.S. points. This table uses the totals for foreign points, which exclude non-domestic traffic between U.S. points. Appendix A summarizes known inconsistencies in the data. Appendix B and Appendix C provide selected traffic data for service with Canada and Mexico, respectively.

<sup>2/</sup> Data for countries in Eastern Europe and Western Europe were published together through 1990. The combined data are shown in the table as Western Europe data for those years.

<sup>3/</sup> The annual rates of growth were estimated by fitting a log linear regression to traffic data for 1992 through 1997.



**Table 9. U.S. Traffic Compared with World Traffic**  
(Minutes shown in millions)

Message Telephone Service Measured in Minutes <u>1/</u>	1991	1992	1993	1994	1995	1996	1997	Growth 1992 to 1997 <u>2/</u>
Total United States	8,986	10,156	11,393	13,393	15,837	19,119	22,586	17.7%
Total World	37,900	43,000	48,200	53,900	60,300	70,000	81,800	13.5%
U.S. as a percent of World	23.7%	23.6%	23.6%	24.8%	26.3%	27.3%	27.6%	
AT&T	6,596	7,039	7,201	8,040	8,831	9,546	10,331	8.5%
MCI	1,600	2,101	2,857	3,529	4,486	5,372	5,913	23.2%
Sprint	728	946	1,181	1,490	1,772	2,745	2,794	26.1%
BT	2,105	2,188	2,310	2,489	2,909	3,158	3,735	11.4%
Deutsche Telekom <u>3/</u>	3,605	4,087	4,680	5,147	5,244	5,100	5,333	4.7%
France Telecom	2,295	2,449	2,576	2,603	2,805	3,116	3,545	7.4%
HongKong Telecom	913	1,137	1,377	1,578	1,692	1,739	1,718	8.4%
Stentor	1,425	1,520	1,552	1,525	1,467	1,650	1,778	2.7%
Swisscom	1,429	1,551	1,572	1,649	1,778	1,936	2,164	7.0%
Telecom Italia	1,220	1,473	1,610	1,708	1,908	2,184	2,352	10.1%

1/ U.S. data are taken from 43.61 International Traffic Data reports and represent U.S. billed minutes of telephone service for all international points. Estimates for World Total and for selected foreign carriers are taken from TeleGeography, Inc. ([www.telegeography.com](http://www.telegeography.com)). In some instances, data for previous years, have been revised.

2/ Estimated using log linear regressions.

3/ DBP Telecom in 1991

**Table 10. International Private Line by Region**

US Billed Revenues (in thousands) <sup>1/</sup>

Year	Western Europe	Africa	Middle East	Caribbean	N. and Central America	South America	Asia	Oceania	E. Europe	Antarctica & Maritime	Total
1991	\$91,381	\$2,443	\$7,997	\$8,329	\$109,245	\$21,448	\$52,253	\$7,820	\$2,532	\$0	\$303,448
1992	122,490	2,872	7,251	8,148	60,913	21,219	73,077	12,502	4,597	337	313,406
1993	135,958	8,269	7,153	7,113	62,194	22,259	93,359	17,221	1,944	232	355,702
1994	158,292	4,397	7,527	9,423	82,349	28,689	109,495	21,962	8,815	852	431,801
1995	186,400	4,715	9,062	13,903	96,867	34,148	125,449	25,304	9,625	234	505,707
1996	232,335	6,920	13,573	23,941	101,242	49,969	169,016	28,973	16,626	6,614	649,209
1997	314,900	10,367	14,226	27,696	112,821	63,440	229,508	53,120	16,164	6,044	848,286
Annual rate of growth since 1992 <sup>2/</sup>	20.4%	18.5%	16.9%	33.6%	14.4%	26.0%	24.4%	29.1%	44.2%	94.0%	21.9%

<sup>1/</sup> International private line revenue by region data for 1991 through 1997 are taken directly from SOCC Table 4.4. Until 1991, carriers were not required to file country-by-country private line service information.

<sup>2/</sup> The annual rates of growth were estimated by fitting a log linear regression to traffic data for 1992 through 1997.

**Table 11. International Circuit Data for Selected Countries**  
(continued)  
**For 1995**

	Activated Circuits for All International Services by Type of Facility <u>1/</u>			Activated Circuits for International Message Telephone Service			IMTS Circuits as Percent of Total Activated Circuits
	Cable & Terrestrial Circuits	Satellite Circuits	Total	Cable Terrestrial & Satellite <u>1/</u>	Minutes <u>2/</u> (000)	Minutes per Circuit (000)	
Australia	2,874	293	3,167	2,310	352,212	152	72.9%
Brazil	1,264	633	1,897	1,430	384,687	269	75.4%
Canada	51,223	1,272	52,495	44,384	5,117,953	115	84.5%
China	409	705	1,114	1,058	283,665	268	95.0%
Colombia	914	346	1,260	1,026	316,224	308	81.4%
Dominican Republic	1,477	683	2,160	1,555	509,032	327	72.0%
Egypt	30	210	240	235	77,846	331	97.9%
El Salvador	120	237	357	338	144,248	427	94.7%
France	2,622	300	2,922	2,143	544,141	254	73.3%
Germany	3,532	455	3,987	2,706	953,253	352	67.9%
Greece	142	198	340	314	117,131	373	92.4%
Guatemala	0	338	338	308	129,361	420	91.1%
Hong Kong	1,406	275	1,681	779	419,113	538	46.3%
India	608	690	1,298	1,004	337,592	336	77.3%
Israel	528	300	828	676	284,798	421	81.6%
Italy	1,534	177	1,711	1,545	383,477	248	90.3%
Jamaica	273	374	647	587	231,135	394	90.7%
Japan	6,435	1,393	7,828	4,888	907,067	186	62.4%
Korea, South	1,105	534	1,639	1,143	463,767	406	69.7%
Mexico	24,860	78	24,938	23,270	2,847,936	122	93.3%
Netherlands	1,808	91	1,899	1,224	246,369	201	64.5%
Nigeria	0	242	242	232	71,032	306	95.9%
Pakistan	0	269	269	268	116,464	435	99.6%
Peru	0	344	344	277	145,810	526	80.5%
Philippines	1,804	206	2,010	1,856	345,647	186	92.3%
Poland	347	224	571	554	164,855	298	97.0%
Russia	677	613	1,290	1,108	105,052	95	85.9%
Saudi Arabia	90	317	407	319	112,405	352	78.4%
South Africa	174	169	343	259	100,557	388	75.5%
Spain	1,136	61	1,197	1,120	176,602	158	93.6%
Switzerland	1,156	176	1,332	927	212,980	230	69.6%
Taiwan	1,058	171	1,229	1,070	380,937	356	87.1%
Thailand	140	286	426	342	118,783	347	80.3%
United Kingdom	14,952	1,229	16,181	8,530	1,716,757	201	52.7%
Total for countries shown above	124,698	13,889	138,587	109,785	18,818,887	171	79.2%
Other international points	13,815	12,016	25,831	21,937	4,358,910	199	84.9%
Countries shown as percent of total	90.0%	53.6%	84.3%	83.3%	81.2%		
Countries shown other than Canada & Mexico	48,615	12,539	61,154	42,131	10,852,998	258	68.9%
Western Europe	31,600	3,496	35,096	23,287	5,221,854	224	66.4%
Africa	284	1,992	2,276	2,051	497,814	243	90.1%
Middle East	650	2,421	3,071	2,560	723,843	283	83.4%
Caribbean	6,348	2,771	9,119	8,016	1,460,701	182	87.9%
North and Central America	76,325	3,008	79,333	69,208	8,701,408	126	87.2%
South America	3,648	4,036	7,684	5,908	1,637,159	277	76.9%
Asia	14,069	5,621	19,690	13,856	3,835,041	277	70.4%
Oceania	3,791	1,026	4,817	3,749	522,669	139	77.8%
Eastern Europe	1,738	1,534	3,272	3,027	528,468	175	92.5%
Antarctica & Maritime	60	0	60	60	10,394	173	100.0%
Total for all international points	138,513	25,905	164,418	131,722	23,177,796	176	80.1%

1/ Section 43.82 *International Circuit Status Report*, December 1996. Data reflect 4 Khz or 64 kbps equivalent circuits. Data shown represent activated circuits. Carriers reported an additional 129,399 idle circuits.

2/ Section 43.61 *International Traffic Data*, February 1997.

**Table 11. International Circuit Data for Selected Countries**

(continued)

**For 1996**

	Activated Circuits for All International Services by Type of Facility <u>1/</u>			Activated Circuits for International Message Telephone Service			IMTS Circuits as Percent of Total Activated Circuits
	Cable & Terrestrial Circuits	Satellite Circuits	Total	Cable Terrestrial & Satellite <u>1/</u>	Minutes <u>2/</u> (000)	Minutes per Circuit (000)	
Australia	4,416	291	4,707	2,247	438,249	195	47.7%
Brazil	2,119	645	2,764	1,530	496,341	324	55.4%
Canada	65,440	647	66,087	41,869	6,309,329	151	63.4%
China	744	852	1,596	1,290	356,618	276	80.8%
Colombia	1,166	400	1,566	1,178	346,287	294	75.2%
Dominican Republic	1,464	971	2,435	1,661	541,438	326	68.2%
Egypt	63	199	262	203	99,375	490	77.5%
El Salvador	0	408	408	359	151,218	421	88.0%
France	5,351	345	5,696	2,810	645,781	230	49.3%
Germany	8,449	75	8,524	3,835	1,094,778	285	45.0%
Greece	278	201	479	330	123,553	374	68.9%
Guatemala	0	415	415	365	139,521	382	88.0%
Hong Kong	2,581	356	2,937	1,007	635,750	631	34.3%
India	1,041	862	1,903	1,358	474,045	349	71.4%
Israel	863	483	1,346	860	317,525	369	63.9%
Italy	2,254	318	2,572	1,772	448,473	253	68.9%
Jamaica	263	431	694	620	269,433	435	89.3%
Japan	12,786	1,171	13,957	5,629	1,049,561	186	40.3%
Korea, South	2,379	640	3,019	1,492	541,646	363	49.4%
Mexico	41,059	74	41,133	27,812	3,329,007	120	67.6%
Netherlands	2,985	43	3,028	1,073	292,669	273	35.4%
Nigeria	30	185	215	208	84,128	404	96.7%
Pakistan	32	339	371	329	143,631	437	88.7%
Peru	0	528	528	343	169,688	495	65.0%
Philippines	2,265	137	2,402	2,003	406,263	203	83.4%
Poland	580	259	839	744	187,554	252	88.7%
Russia	659	694	1,353	1,052	130,932	124	77.8%
Saudi Arabia	150	365	515	378	128,364	340	73.4%
South Africa	357	278	635	382	126,755	332	60.2%
Spain	1,353	102	1,455	1,209	208,791	173	83.1%
Switzerland	1,553	116	1,669	952	272,905	287	57.0%
Taiwan	1,825	148	1,973	1,377	433,860	315	69.8%
Thailand	256	400	656	357	144,210	404	54.4%
United Kingdom	32,034	441	32,475	13,149	1,964,109	149	40.5%
Total for countries shown above	196,795	13,819	210,614	121,783	22,501,786	185	57.8%
Other international points	20,484	15,453	35,937	24,325	5,060,329	208	67.7%
Countries shown as percent of total	90.6%	47.2%	85.4%	83.4%	81.6%		
Countries shown other than Canada & Mexico	90,296	13,098	103,394	52,102	12,863,450	247	50.4%
Western Europe	62,402	2,526	64,928	30,850	6,045,983	196	47.5%
Africa	629	2,326	2,955	2,439	610,625	250	82.5%
Middle East	1,166	2,588	3,754	2,841	832,267	293	75.7%
Caribbean	6,056	2,953	9,009	7,501	1,623,177	216	83.3%
North and Central America	106,659	2,929	109,588	71,403	10,328,084	145	65.2%
South America	5,613	4,531	10,144	6,626	1,971,664	298	65.3%
Asia	26,840	6,149	32,989	17,290	4,800,666	278	52.4%
Oceania <u>3/</u>	5,915	1,241	7,156	3,703	680,008	184	51.7%
Eastern Europe	1,999	2,262	4,261	3,455	659,953	191	81.1%
Antarctica & Maritime	0	1,767	1,767	n.a.	9,687	n.a.	n.a.
Total for all international points	217,279	29,272	246,551	146,108	27,562,115	189	59.3%

1/ Section 43.82 International Circuit Status Report, December 1997. Data reflect 4 KHz or 64 kbps equivalent circuits. Data shown represent activated circuits. Carriers reported an additional 76,779 idle circuits.

2/ Section 43.61 International Traffic Data, January 1998.

3/ Data for carriers serving miscellaneous U.S. points are included.

**Table 11. International Circuit Data for Selected Countries**

**For 1997**

	Activated Circuits for All International Services by Type of Facility <u>1/</u>			Activated Circuits for International Message Telephone Service			IMTS Circuits as Percent of Total Activated Circuits
	Cable & Terrestrial Circuits	Satellite Circuits	Total	Cable Terrestrial & Satellite <u>1/</u>	Minutes <u>2/</u> (000)	Minutes per Circuit (000)	
Australia	8,201	271	8,472	4,173	520,756	125	49.3%
Brazil	3,229	852	4,081	1,595	654,572	410	39.1%
Canada	124,489	1,992	126,481	50,501	7,068,030	140	39.9%
China	1,013	914	1,927	1,501	437,788	292	77.9%
Colombia	1,190	695	1,885	1,137	330,991	291	60.3%
Dominican Republic	1,512	1,339	2,851	2,156	486,968	226	75.6%
Egypt	115	226	341	215	120,799	562	63.0%
El Salvador	114	407	521	390	167,989	431	74.9%
France	6,312	343	6,655	3,142	719,309	229	47.2%
Germany	12,909	347	13,256	5,120	1,320,126	258	38.6%
Greece	349	224	573	404	132,483	328	70.5%
Guatemala	34	423	457	368	141,923	386	80.5%
Hong Kong	4,041	333	4,374	1,273	750,177	589	29.1%
India	1,453	768	2,221	1,418	624,089	440	63.8%
Israel	1,291	635	1,926	1,082	336,445	311	56.2%
Italy	2,334	223	2,557	1,700	594,167	350	66.5%
Jamaica	228	489	717	639	303,994	476	89.1%
Japan	16,303	1,033	17,336	6,582	1,192,253	181	38.0%
Korea, South	5,548	493	6,041	2,246	626,410	279	37.2%
Mexico	60,083	472	60,555	37,030	3,708,647	100	61.2%
Netherlands	3,230	43	3,273	1,179	321,372	273	36.0%
Nigeria	0	235	235	232	111,720	482	98.7%
Pakistan	0	339	339	269	171,532	638	79.4%
Peru	0	687	687	383	189,311	494	55.7%
Philippines	3,616	48	3,664	2,835	482,230	170	77.4%
Poland	659	258	917	760	197,869	260	82.9%
Russia	1,267	554	1,821	1,266	155,211	123	69.5%
Saudi Arabia	179	396	575	461	141,856	308	80.2%
South Africa	523	322	845	423	142,738	337	50.1%
Spain	2,685	124	2,809	1,722	276,321	160	61.3%
Switzerland	2,347	2	2,349	1,237	344,299	278	52.7%
Taiwan	2,501	132	2,633	1,635	518,546	317	62.1%
Thailand	599	320	919	439	143,458	327	47.8%
United Kingdom	41,537	202	41,739	18,197	2,499,834	137	43.6%
Total for countries shown above	309,891	16,141	326,032	153,710	25,934,211	169	47.1%
Other international points	30,821	21,230	52,051	28,647	6,052,197	211	55.0%
Countries shown as percent of total	91.0%	43.2%	86.2%	84.3%	81.1%		
Countries shown other than Canada & Mexico	125,319	13,677	138,996	66,179	15,157,534	229	47.6%
Western Europe	84,043	2,928	86,971	39,357	7,468,744	190	45.3%
Africa	780	2,688	3,468	2,635	720,328	273	76.0%
Middle East	1,562	4,381	5,943	3,161	885,697	280	53.2%
Caribbean	7,599	3,568	11,167	9,449	1,728,719	183	84.6%
North and Central America	185,190	4,750	189,940	89,434	11,554,287	129	47.1%
South America	7,865	6,181	14,046	7,233	2,273,354	314	51.5%
Asia	40,014	6,165	46,179	21,268	5,744,651	270	46.1%
Oceania <u>3/</u>	10,523	1,074	11,597	5,895	879,197	149	50.8%
Eastern Europe	3,136	2,519	5,655	3,925	719,433	183	69.4%
Antarctica & Maritime	0	3,117	3,117	n.a.	11,998	n.a.	n.a.
Total for all international points	340,712	37,371	378,083	182,357	31,986,409	175	48.2%

1/ Section 43.82 International Circuit Status Report , February 1999. Data reflect 4 Khz or 64 kbps equivalent circuits. Data shown represent activated circuits. Carriers reported an additional 96,448 idle circuits.

2/ Section 43.61 International Traffic Data , December 1998.

3/ Data for carriers serving miscellaneous U.S. points are included.

**Table 12. Transatlantic Cable Systems**  
Including Systems Removed from Service and Planned Systems

System	Year	Techology	Estimated Cost (\$ million)	Total 64 kbps Circuits	Usable 64 kbps Circuits <u>1/</u>	Annual Investment Cost per Usable Ckt <u>2/</u>	Investment Cost per Minute <u>3/</u>
TAT-1	1956	Coax Cable	\$49.6	44.5	40.1	\$213,996	\$2.443
TAT-2	1959	Coax Cable	42.7	49.0	44.1	167,308	1.910
TAT-3	1963	Coax Cable	50.6	87.5	78.8	111,027	1.267
TAT-4	1965	Coax Cable	50.4	69.0	62.1	140,238	1.601
TAT-5	1970	Coax Cable	70.4	720.0	648.0	18,773	0.214
TAT-6	1976	Coax Cable	197.0	4,000.0	3,200.0	10,638	0.121
TAT-7	1983	Coax Cable	180.0	4,246.0	3,821.4	8,139	0.093
TAT-8	1988	Fiber Optic	360.0	7,560.0	6,048.0	10,285	0.117
TAT-9	1992	Fiber Optic	406.0	15,120.0	10,584.0	6,628	0.076
TAT-10	1992	Fiber Optic	300.0	22,680.0	18,144.0	2,857	0.033
TAT-11	1993	Fiber Optic	280.0	22,680.0	18,144.0	2,667	0.030
TAT-12	1996	Fiber Optic	378.0	60,480.0	60,480.0	1,080	0.012
TAT-13	1996	Fiber Optic	378.0	60,480.0	60,480.0	1,080	0.012
Gemini	1998	Fiber Optic	520.0	241,920.0	241,920.0	371	0.004
AC-1	1998	Fiber Optic	850.0	483,840.0	483,840.0	304	0.003

1/ With allowance for redundancy, restoration, etc.

2/ The annual investment cost per usable circuit is the annual payment rate for the life of the asset that produces a present value equal to the initial investment cost. This calculation assumes a 25 year cable life and a discount rate equal to the average cost of capital for the firm. For purposes of comparison, the discount rate is based on 40% debt at an embedded cost of debt of 9% and 60% equity at a 14% rate of return, with the latter increased to reflect a 37% income tax rate. These assumptions translate to a discount rate of 16.9333%

3/ The investment cost per minute assumes that average activated circuits are used 8 hours per day for 365 days each year and that 50% of circuits are idle (not activated). These assumptions are consistent with the current utilization rates shown in Table 11, but probably overstate the utilization rates for early cable systems. This calculation is intended to illustrate relative costs of new versus old cable capacity. The Gemini and AC-1 systems are designed primarily to handle private line circuits.

4/ Carriers have announced two additional transatlantic cable systems:

TAT-14 would link the United States with five European countries, have a capacity of 640 gigabits per second and cost \$1.5 billion.

OXYGEN (USA) - would link the United States with over 75 other countries.

Cost estimates are still evolving but carriers plan to start construction in 1999 or 2000.

The system is projected to have a capacity of 640 gigabits per second.

Table 13. AT&T Residential Rates for Calls Lasting 3 Minutes  
to Selected International Points, 1950 - 1998 1/

	United Kingdom		Germany		Japan		Philippines		Colombia <u>2/</u>		Israel	
	Standard	Economy	Standard	Economy	Standard	Economy	Standard	Economy	Standard	Economy	Standard	Economy
1950	\$12.00	\$9.00	\$12.00	\$9.00	\$12.00	\$9.00	\$12.00	\$9.00	\$9.00	\$7.50	\$12.00	\$12.00
1951	12.00	9.00	12.00	9.00	12.00	9.00	12.00	9.00	9.00	7.50	12.00	12.00
1952	12.00	9.00	12.00	9.00	12.00	9.00	12.00	9.00	9.00	7.50	12.00	12.00
1953	12.00	9.00	12.00	9.00	12.00	9.00	12.00	9.00	9.00	7.50	12.00	12.00
1954	12.00	9.00	12.00	9.00	12.00	9.00	12.00	9.00	9.00	7.50	12.00	12.00
1955	12.00	9.00	12.00	9.00	12.00	9.00	12.00	9.00	9.00	7.50	12.00	12.00
1956	12.00	9.00	12.00	9.00	12.00	9.00	12.00	9.00	9.00	7.50	12.00	12.00
1957	12.00	9.00	12.00	9.00	12.00	9.00	12.00	9.00	9.00	7.50	12.00	12.00
1958	12.00	9.00	12.00	9.00	12.00	9.00	12.00	9.00	9.00	7.50	12.00	12.00
1959	12.00	9.00	12.00	9.00	12.00	9.00	12.00	9.00	9.00	7.50	12.00	12.00
1960	12.00	9.00	12.00	9.00	12.00	9.00	12.00	9.00	9.00	7.50	12.00	12.00
1961	12.00	9.00	12.00	9.00	12.00	9.00	12.00	9.00	9.00	7.50	12.00	12.00
1962	12.00	9.00	12.00	9.00	12.00	9.00	12.00	9.00	9.00	7.50	12.00	12.00
1963	12.00	9.00	12.00	9.00	12.00	9.00	12.00	9.00	9.00	7.50	12.00	12.00
1964	12.00	9.00	12.00	9.00	9.00	6.75	12.00	9.00	9.00	7.50	12.00	12.00
1965	12.00	9.00	12.00	9.00	9.00	6.75	12.00	9.00	9.00	7.50	12.00	12.00
1966	12.00	9.00	12.00	9.00	9.00	6.75	12.00	9.00	9.00	7.50	12.00	12.00
1967	7.50	5.70	9.00	6.50	9.00	6.75	12.00	9.00	9.00	7.50	12.00	12.00
1968	7.50	5.70	9.00	6.50	9.00	6.75	9.00	6.75	9.00	7.50	9.00	6.75
1969	7.50	5.70	9.00	6.50	9.00	6.75	9.00	6.75	9.00	7.50	9.00	6.75
1970	3.60	3.60	6.75	5.10	9.00	6.75	9.00	6.75	9.00	7.50	9.00	6.75
1971	3.60	3.60	6.75	5.10	9.00	6.75	9.00	6.75	9.00	7.50	9.00	6.75
1972	3.60	3.60	6.75	5.10	9.00	6.75	9.00	6.75	9.00	7.50	9.00	6.75
1973	3.60	3.60	6.75	5.10	9.00	6.75	9.00	6.75	9.00	7.50	9.00	6.75
1974	3.60	3.60	6.75	5.10	9.00	6.75	9.00	6.75	9.00	7.50	9.00	6.75
1975	3.60	3.60	6.75	5.10	9.00	6.75	9.00	6.75	9.00	7.50	9.00	6.75
1976	3.60	3.60	6.75	5.10	9.00	6.75	9.00	6.75	9.00	7.50	9.00	6.75
1977	3.60	3.60	6.75	5.10	9.00	6.75	9.00	6.75	9.00	7.50	9.00	6.75
1978	4.50	3.60	6.00	4.80	7.80	5.85	9.00	6.75	7.05	5.55	9.00	6.75
1979	4.50	3.60	6.00	4.80	7.35	5.55	7.35	5.55	7.05	5.55	7.35	5.55
1980	4.80	3.75	6.30	5.10	7.80	5.85	7.80	5.85	7.80	5.70	7.80	5.85
1981	3.00	2.40	4.05	3.15	4.95	3.75	4.95	3.75	4.50	3.60	4.95	3.75
1982	4.60	2.77	5.03	3.02	7.38	4.43	7.38	4.43	5.13	4.43	6.34	3.81
1983	4.60	2.77	5.03	3.02	7.38	4.43	7.38	4.43	5.13	4.43	6.34	3.58
1984	4.31	2.59	4.73	2.83	6.92	4.16	6.92	4.16	4.82	2.90	5.96	3.58
1985	4.17	2.51	4.61	2.76	6.78	4.07	6.92	4.16	4.82	2.90	5.96	3.58
1986	3.63	2.19	4.12	2.46	6.32	3.79	6.92	4.16	4.82	2.90	5.96	3.58
1987	3.63	2.19	4.12	2.46	6.32	3.79	6.92	4.16	4.82	2.90	5.96	3.58
1988	3.63	2.19	4.12	2.46	6.32	3.79	6.92	4.16	4.82	2.90	5.96	3.58
1989	3.49	2.18	4.12	2.46	6.32	3.79	6.92	4.16	4.82	2.90	5.96	3.58
1990	3.32	2.18	3.95	2.45	5.53	3.78	6.05	4.00	4.61	2.89	5.38	3.58
1991	3.32	2.18	3.95	2.45	5.53	3.78	6.05	4.00	4.61	2.89	5.38	3.58
1992	3.32	2.18	3.95	2.45	5.53	3.78	6.05	4.00	4.61	2.89	5.38	3.58
1993	3.36	2.22	3.95	2.53	5.53	3.78	6.47	4.30	5.07	3.31	5.66	3.68
1994	3.36	2.22	3.95	2.66	5.35	3.10	6.79	3.74	5.21	3.72	6.76	3.87
1995	3.55	2.33	4.11	2.44	5.31	3.08	6.57	3.75	5.75	3.47	6.12	3.38
1996	3.73	2.49	4.17	2.60	5.59	3.30	6.91	4.02	6.05	3.71	6.44	3.62
1997	3.27	2.37	3.75	2.46	4.35	3.15	6.51	4.38	5.58	4.08	5.91	3.96
1998	3.66	2.67	4.20	2.76	4.89	3.54	7.32	4.92	6.27	4.59	6.63	4.47
Percent Change 1950-1998	-70%	-70%	-65%	-69%	-59%	-61%	-39%	-45%	-30%	-39%	-45%	-63%

1/ The table shows rates in effect on December 31. Direct-dial rates are shown starting when offered which was either 1978 or 1979. Station-to-station rates are shown for earlier years. Rates do not reflect discount plans.

2/ Through 1981, the rates reflect a call from New York City to any point in Colombia.

Table 14. AT&T Basic Schedule Rates for Residential Customers 1/

	Rates for 7-minute peak period calls as of December 31																	Aug. 30
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994 <u>5/</u>	1995	1996	1997	1998	1999
Australia	\$13.70	\$13.70	\$12.84	\$12.58	\$11.72	\$11.72	\$11.72	\$11.12	\$10.60	\$10.60	\$10.60	\$10.96	\$10.96	\$12.19	\$13.03	\$10.57	\$11.90	\$12.60
Brazil	\$9.85	\$9.85	\$9.26	\$9.26	\$9.26	\$9.26	\$9.26	\$9.26	\$8.74	\$8.74	\$8.74	\$9.34	\$10.42	\$12.68	\$13.52	\$12.88	\$14.49	\$11.97
Canada <u>2/</u>	\$4.77	\$4.77	\$4.48	\$4.76	\$4.48	\$4.48	\$4.48	\$4.28	\$4.07	\$4.07	\$4.07	\$4.28	\$4.35	\$4.83	\$4.83	\$3.78	\$4.27	\$4.55
China	n.o.	n.o.	n.o.	n.o.	\$14.46	\$14.46	\$14.46	\$14.46	\$14.46	\$14.46	\$15.06	\$15.36	\$17.27	\$17.27	\$18.41	\$18.20	\$20.44	\$21.70
Colombia	\$9.85	\$9.85	\$9.26	\$9.26	\$9.26	\$9.26	\$9.26	\$9.26	\$9.05	\$9.05	\$9.05	\$9.53	\$10.85	\$13.11	\$14.01	\$13.02	\$14.63	\$15.54
Dominican Rep.	\$8.46	\$8.46	\$7.94	\$7.94	\$7.94	\$7.94	\$7.94	\$7.94	\$7.81	\$7.81	\$7.81	\$7.81	\$9.47	\$9.98	\$10.64	\$11.06	\$12.46	\$13.23
Egypt	\$11.77	\$11.77	\$11.05	\$11.05	\$11.05	\$11.05	\$11.05	\$11.05	\$11.05	\$11.05	\$11.05	\$11.47	\$12.67	\$14.85	\$15.87	\$15.19	\$17.08	\$18.13
El Salvador	\$9.40	\$9.40	\$8.82	\$8.82	\$8.82	\$8.82	\$8.82	\$8.82	\$8.61	\$8.61	\$8.61	\$8.91	\$10.55	\$11.10	\$11.82	\$12.18	\$13.72	\$14.56
France	\$10.35	\$10.35	\$9.73	\$9.49	\$8.48	\$8.48	\$8.48	\$8.48	\$8.07	\$8.07	\$8.07	\$8.07	\$8.19	\$9.90	\$10.56	\$9.31	\$10.50	\$11.13
Germany <u>3/</u>	\$10.35	\$10.35	\$9.73	\$9.49	\$8.48	\$8.48	\$8.48	\$8.48	\$8.31	\$8.31	\$8.31	\$8.31	\$8.31	\$9.55	\$9.73	\$8.75	\$9.80	\$10.36
Greece	\$10.35	\$10.35	\$9.73	\$9.49	\$9.49	\$9.49	\$9.49	\$9.49	\$9.49	\$9.49	\$9.49	\$10.69	\$11.77	\$14.47	\$15.43	\$13.65	\$15.33	\$16.24
Guatemala	\$9.40	\$9.40	\$8.82	\$8.82	\$8.82	\$8.82	\$8.82	\$8.82	\$8.61	\$8.61	\$8.61	\$8.91	\$10.30	\$12.08	\$12.92	\$12.32	\$13.86	\$14.70
Hong Kong	\$13.70	\$13.70	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$11.72	\$11.72	\$11.72	\$11.72	\$11.72	\$11.72	\$12.75	\$13.59	\$12.88	\$14.49	\$15.33
India	n.o.	\$26.94	\$25.31	\$24.54	\$21.52	\$21.52	\$21.52	\$16.44	\$16.44	\$16.44	\$16.44	\$15.53	\$13.41	\$17.00	\$18.14	\$18.48	\$20.72	\$21.98
Israel	\$11.66	\$11.66	\$10.96	\$10.96	\$10.96	\$10.96	\$10.96	\$10.96	\$10.18	\$10.18	\$10.18	\$10.42	\$13.44	\$13.96	\$14.92	\$13.79	\$15.47	\$16.38
Italy	\$10.35	\$10.35	\$9.73	\$9.37	\$8.48	\$8.48	\$8.48	\$8.48	\$8.12	\$8.12	\$8.12	\$8.72	\$9.38	\$10.79	\$11.51	\$10.50	\$11.83	\$12.53
Japan	\$13.70	\$13.70	\$12.84	\$12.58	\$11.72	\$11.72	\$11.72	\$11.72	\$10.49	\$10.49	\$10.49	\$10.49	\$11.43	\$12.11	\$12.95	\$10.15	\$11.41	\$12.11
Jamaica	\$8.46	\$8.46	\$7.94	\$7.42	\$7.42	\$7.42	\$7.42	\$7.42	\$7.42	\$7.42	\$7.42	\$7.72	\$9.25	\$11.00	\$11.90	\$11.13	\$12.53	\$13.30
Korea, Rep. of	\$13.70	\$13.70	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$11.90	\$11.90	\$11.90	\$11.90	\$13.22	\$13.61	\$14.51	\$12.74	\$14.28	\$15.12
Mexico <u>2/</u>	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	\$11.07	\$11.07	\$10.23	\$10.09	\$9.88	\$10.35	\$10.64	\$11.69	\$11.69	\$10.57	\$11.41	\$11.83
Netherlands	\$10.35	\$10.35	\$9.55	\$9.37	\$8.48	\$8.48	\$8.48	\$8.48	\$8.00	\$8.00	\$8.00	\$8.12	\$9.61	\$10.27	\$9.17	\$10.36	\$10.99	\$11.63
Nigeria	\$11.77	\$11.77	\$11.05	\$10.57	\$8.66	\$8.66	\$8.66	\$8.66	\$8.66	\$9.69	\$9.69	\$10.23	\$10.47	\$13.21	\$14.11	\$13.72	\$15.40	\$16.31
Pakistan	n.o.	\$18.24	\$17.14	\$17.14	\$17.14	\$17.14	\$17.14	\$17.14	\$16.69	\$16.69	\$16.69	\$17.89	\$20.96	\$27.12	\$28.92	\$28.91	\$32.48	\$34.44
Peru	\$9.85	\$9.85	\$9.26	\$9.26	\$9.26	\$9.26	\$9.26	\$9.26	\$9.05	\$9.05	\$9.05	\$9.53	\$11.30	\$13.82	\$14.78	\$13.93	\$15.68	\$16.59
Philippines	\$13.70	\$13.70	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$11.65	\$11.65	\$11.65	\$12.07	\$14.55	\$14.97	\$15.99	\$15.19	\$17.08	\$18.13
Poland	n.o.	\$10.35	\$9.73	\$9.73	\$9.73	\$9.73	\$9.73	\$9.73	\$9.73	\$9.73	\$9.73	\$9.73	\$9.97	\$11.18	\$11.96	\$10.99	\$12.39	\$13.16
Russia <u>4/</u>	n.o.	n.o.	n.o.	n.o.	n.o.	n.o.	n.o.	\$14.31	\$14.31	\$14.31	\$14.31	\$14.31	\$14.97	\$16.09	\$17.17	\$17.15	\$19.25	\$20.44
Saudi Arabia	\$11.66	\$11.66	\$10.96	\$10.78	\$10.09	\$10.09	\$10.09	\$10.09	\$10.09	\$10.09	\$10.09	\$10.93	\$13.32	\$14.25	\$15.21	\$14.70	\$16.52	\$17.50
South Africa	\$11.77	\$11.77	\$11.05	\$10.57	\$8.66	\$8.66	\$8.66	\$8.66	\$8.66	\$8.66	\$8.66	\$9.38	\$10.34	\$11.52	\$12.30	\$12.25	\$13.79	\$14.63
Spain	\$10.35	\$10.35	\$9.55	\$9.37	\$8.48	\$8.48	\$8.48	\$8.48	\$8.48	\$8.48	\$8.48	\$9.14	\$11.34	\$12.11	\$12.95	\$11.34	\$12.74	\$13.51
Switzerland	\$10.35	\$10.35	\$9.55	\$9.37	\$8.48	\$8.48	\$8.48	\$8.48	\$8.48	\$8.48	\$8.48	\$8.90	\$8.90	\$10.68	\$11.40	\$9.87	\$11.06	\$11.69
Taiwan	\$13.70	\$13.70	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$12.19	\$12.19	\$12.19	\$12.19	\$12.19	\$13.81	\$14.77	\$13.93	\$15.68	\$16.59
Thailand	\$13.70	\$13.70	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$14.74	\$14.68	\$15.64	\$14.07	\$15.82	\$16.80
United Kingdom	\$9.64	\$9.64	\$9.03	\$8.73	\$7.59	\$7.59	\$7.59	\$7.45	\$7.08	\$7.08	\$7.08	\$7.20	\$7.20	\$8.03	\$8.57	\$7.63	\$8.54	\$9.03
Fisher Ideal Rate Index	100.0	100.0	94.6	95.4	90.2	90.2	90.2	88.6	84.6	84.5	84.2	87.2	92.0	102.9	107.0	94.9	106.1	111.4
% changes from prior rate		0.0%	-5.4%	0.8%	-5.4%	0.0%	0.0%	-1.8%	-4.5%	-0.2%	-0.3%	3.5%	5.5%	11.9%	3.9%	-11.2%	11.8%	5.0%
Index without Mexico	100.0	100.0	93.8	94.7	88.8	88.8	88.8	87.0	83.6	83.6	83.6	86.4	91.5	102.8	107.5	95.1	107.0	112.6
% changes from prior rate		0.0%	-6.2%	0.9%	-6.2%	0.0%	0.0%	-2.1%	-3.9%	0.0%	0.0%	3.3%	6.0%	12.3%	4.6%	-11.5%	12.5%	5.2%

NOTE: "n.o." is shown if direct-dialed service was not offered at that time. "n.a." indicates rate not available.

1/ Tariff rates do not include taxes or surcharges. Year-end rates are shown for 1980 through 1998. February 8 rates are shown for 1999.

2/ Tariff rates for traffic to Canada and Mexico are distance-sensitive. The rates shown for Canada are for 1000-mile calls. A "sum of local rates" pricing scheme is used for service to Mexico. For a call to Mexico, AT&T charges its standard domestic rates for the distance to the Mexican border, and also bills the customer for the amount that the Mexican telephone company charges from the border-crossing to the destination. This table shows total charges to customers for calls from Washington D.C. to Mexico City.

3/ Rates for West Germany through 1990.

4/ Rates shown are for service to Moscow.

5/ In March 1994 AT&T introduced a rate schedule specifically for residential customers. Until then, the same rate schedule applied to residential and commercial calls.



Table 15. AT&T Basic Schedule Rates for Commercial Customers 1/

	Rates for 7-minute peak period calls as of December 31																	Aug. 30	
	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994 5/	1995	1996	1997	1998	1999	
Australia	\$13.70	\$13.70	\$12.84	\$12.58	\$11.72	\$11.72	\$11.72	\$11.12	\$10.60	\$10.60	\$10.60	\$10.96	\$12.71	\$13.62	\$14.98	\$18.41	\$18.41	\$20.51	
Brazil	\$9.85	\$9.85	\$9.26	\$9.26	\$9.26	\$9.26	\$9.26	\$9.26	\$8.74	\$8.74	\$8.74	\$9.34	\$10.43	\$11.19	\$12.35	\$15.05	\$15.05	\$16.73	
Canada 2/	\$4.77	\$4.77	\$4.48	\$4.76	\$4.48	\$4.48	\$4.48	\$4.28	\$4.07	\$4.07	\$4.07	\$4.28	\$4.84	\$4.98	\$5.54	\$6.09	\$6.09	\$6.79	
China	n.o.	n.o.	n.o.	n.o.	\$14.46	\$14.46	\$14.46	\$14.46	\$14.46	\$14.46	\$15.06	\$15.36	\$18.38	\$19.34	\$21.24	\$25.55	\$25.55	\$28.42	
Colombia	\$9.85	\$9.85	\$9.26	\$9.26	\$9.26	\$9.26	\$9.26	\$9.26	\$9.05	\$9.05	\$9.05	\$9.53	\$10.78	\$11.58	\$12.72	\$14.63	\$14.63	\$16.24	
Dominican Rep.	\$8.46	\$8.46	\$7.94	\$7.94	\$7.94	\$7.94	\$7.94	\$7.94	\$7.81	\$7.81	\$7.81	\$7.81	\$9.36	\$9.86	\$10.88	\$12.25	\$12.25	\$13.58	
Egypt	\$11.77	\$11.77	\$11.05	\$11.05	\$11.05	\$11.05	\$11.05	\$11.05	\$11.05	\$11.05	\$11.05	\$11.47	\$13.75	\$14.53	\$15.95	\$17.36	\$17.36	\$19.32	
El Salvador	\$9.40	\$9.40	\$8.82	\$8.82	\$8.82	\$8.82	\$8.82	\$8.82	\$8.61	\$8.61	\$8.61	\$8.91	\$10.62	\$11.23	\$12.35	\$14.14	\$14.14	\$15.68	
France	\$10.35	\$10.35	\$9.73	\$9.49	\$8.48	\$8.48	\$8.48	\$8.48	\$8.07	\$8.07	\$8.07	\$8.07	\$9.67	\$10.31	\$11.37	\$13.09	\$13.09	\$14.56	
Germany 3/	\$10.35	\$10.35	\$9.73	\$9.49	\$8.48	\$8.48	\$8.48	\$8.48	\$8.31	\$8.31	\$8.31	\$8.31	\$9.92	\$10.44	\$11.50	\$13.30	\$13.30	\$14.77	
Greece	\$10.35	\$10.35	\$9.73	\$9.49	\$9.49	\$9.49	\$9.49	\$9.49	\$9.49	\$9.49	\$9.49	\$10.69	\$11.35	\$12.20	\$13.44	\$14.84	\$14.84	\$16.52	
Guatemala	\$9.40	\$9.40	\$8.82	\$8.82	\$8.82	\$8.82	\$8.82	\$8.82	\$8.61	\$8.61	\$8.61	\$8.91	\$10.62	\$11.23	\$12.35	\$13.09	\$13.09	\$14.56	
Hong Kong	\$13.70	\$13.70	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$11.72	\$11.72	\$11.72	\$11.72	\$11.72	\$13.99	\$14.76	\$16.30	\$22.33	\$22.33	\$24.85	
India	n.o.	\$26.94	\$25.31	\$24.54	\$21.52	\$21.52	\$21.52	\$16.44	\$16.44	\$16.44	\$16.44	\$15.53	\$18.63	\$19.60	\$21.54	\$23.94	\$23.94	\$26.60	
Israel	\$11.66	\$11.66	\$10.96	\$10.96	\$10.96	\$10.96	\$10.96	\$10.96	\$10.18	\$10.18	\$10.18	\$10.42	\$12.21	\$13.11	\$14.45	\$16.73	\$16.73	\$18.55	
Italy	\$10.35	\$10.35	\$9.73	\$9.37	\$8.48	\$8.48	\$8.48	\$8.48	\$8.12	\$8.12	\$8.12	\$8.72	\$9.69	\$9.99	\$10.95	\$19.39	\$19.39	\$21.49	
Japan	\$13.70	\$13.70	\$12.84	\$12.58	\$11.72	\$11.72	\$11.72	\$11.72	\$10.49	\$10.49	\$10.49	\$10.49	\$12.59	\$12.94	\$14.28	\$17.50	\$17.50	\$19.46	
Jamaica	\$8.46	\$8.46	\$7.94	\$7.42	\$7.42	\$7.42	\$7.42	\$7.42	\$7.42	\$7.42	\$7.42	\$7.72	\$9.21	\$9.72	\$10.74	\$11.83	\$11.83	\$13.16	
Korea, Rep. of	\$13.70	\$13.70	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$11.90	\$11.90	\$11.90	\$11.90	\$14.24	\$15.01	\$16.55	\$22.68	\$22.68	\$25.20	
Mexico 2/	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	\$11.07	\$11.07	\$10.23	\$10.09	\$9.88	\$10.35	\$13.23	\$13.86	\$15.26	\$13.37	\$13.37	\$14.84	
Netherlands	\$10.35	\$10.35	\$9.55	\$9.37	\$8.48	\$8.48	\$8.48	\$8.48	\$8.00	\$8.00	\$8.00	\$8.12	\$9.60	\$9.65	\$11.12	\$12.88	\$12.88	\$14.35	
Nigeria	\$11.77	\$11.77	\$11.05	\$10.57	\$8.66	\$8.66	\$8.66	\$8.66	\$8.66	\$9.69	\$9.69	\$10.23	\$11.58	\$12.26	\$13.52	\$14.70	\$14.70	\$16.31	
Pakistan	n.o.	\$18.24	\$17.14	\$17.14	\$17.14	\$17.14	\$17.14	\$17.14	\$16.69	\$16.69	\$16.69	\$17.89	\$19.96	\$21.44	\$23.56	\$24.92	\$24.92	\$27.65	
Peru	\$9.85	\$9.85	\$9.26	\$9.26	\$9.26	\$9.26	\$9.26	\$9.26	\$9.05	\$9.05	\$9.05	\$9.53	\$10.78	\$11.58	\$12.72	\$13.86	\$13.86	\$15.40	
Philippines	\$13.70	\$13.70	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$11.65	\$11.65	\$11.65	\$12.07	\$13.91	\$14.89	\$16.38	\$18.34	\$18.34	\$20.37	
Poland	n.o.	\$10.35	\$9.73	\$9.73	\$9.73	\$9.73	\$9.73	\$9.73	\$9.73	\$9.73	\$9.73	\$9.73	\$11.67	\$12.29	\$13.53	\$14.56	\$14.56	\$16.17	
Russia 4/	n.o.	n.o.	n.o.	n.o.	n.o.	n.o.	n.o.	\$14.31	\$14.31	\$14.31	\$14.31	\$14.31	\$14.31	\$17.16	\$18.07	\$19.91	\$21.84	\$21.84	\$24.22
Saudi Arabia	\$11.66	\$11.66	\$10.96	\$10.78	\$10.09	\$10.09	\$10.09	\$10.09	\$10.09	\$10.09	\$10.09	\$10.93	\$12.63	\$13.55	\$14.91	\$17.43	\$17.43	\$19.39	
South Africa	\$11.77	\$11.77	\$11.05	\$10.57	\$8.66	\$8.66	\$8.66	\$8.66	\$8.66	\$8.66	\$8.66	\$9.38	\$10.69	\$11.48	\$12.58	\$14.77	\$14.77	\$16.38	
Spain	\$10.35	\$10.35	\$9.55	\$9.37	\$8.48	\$8.48	\$8.48	\$8.48	\$8.48	\$8.48	\$8.48	\$9.14	\$10.13	\$10.84	\$11.92	\$13.93	\$13.93	\$15.47	
Switzerland	\$10.35	\$10.35	\$9.55	\$9.37	\$8.48	\$8.48	\$8.48	\$8.48	\$8.48	\$8.48	\$8.48	\$8.90	\$10.13	\$10.84	\$11.92	\$13.93	\$13.93	\$15.47	
Taiwan	\$13.70	\$13.70	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$12.19	\$12.19	\$12.19	\$12.19	\$14.63	\$15.39	\$16.92	\$20.79	\$20.79	\$23.10	
Thailand	\$13.70	\$13.70	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$12.84	\$15.35	\$16.20	\$17.78	\$22.19	\$22.19	\$24.64	
United Kingdom	\$9.64	\$9.64	\$9.03	\$8.73	\$7.59	\$7.59	\$7.59	\$7.45	\$7.08	\$7.08	\$7.08	\$7.20	\$8.51	\$8.73	\$9.63	\$11.06	\$11.06	\$12.25	
Fisher Ideal Rate Index	100.0	100.0	94.6	95.4	90.2	90.2	90.2	88.6	84.6	84.5	84.2	87.2	102.6	107.4	118.6	132.2	132.2	146.9	
% changes from prior rate		0.0%	-5.4%	0.8%	-5.4%	0.0%	0.0%	-1.8%	-4.5%	-0.2%	-0.3%	3.5%	17.7%	4.6%	10.5%	11.5%	0.0%	11.2%	
Index without Mexico	100.0	100.0	93.8	94.7	88.8	88.8	88.8	87.0	83.6	83.6	83.6	86.4	100.2	104.8	115.8	134.9	134.9	150.0	
% changes from prior rate		0.0%	-6.2%	0.9%	-6.2%	0.0%	0.0%	-2.1%	-3.9%	0.0%	0.0%	3.3%	16.0%	4.6%	10.5%	16.5%	0.0%	11.2%	

NOTE: "n.o." is shown if direct-dialed service was not offered at that time. "n.a." indicates rate not available.

1/ Tariff rates do not include taxes or surcharges. Year-end rates are shown for 1980 through 1998. February 8 rates are shown for 1999.

2/ Tariff rates for traffic to Canada and Mexico are distance-sensitive. The rates shown for Canada are for 1000-mile calls. A "sum of local rates" pricing scheme is used for service to Mexico. For a call to Mexico, AT&T charges its standard domestic rates for the distance to the Mexican border, and also bills the customer for the amount that the Mexican telephone company charges from the border-crossing to the destination. This table shows total charges to customers for calls from Washington D.C. to Mexico City.

3/ Rates for West Germany through 1990.

4/ Rates shown are for service to Moscow.

5/ In March 1994 AT&T introduced a rate schedule specifically for commercial customers. Until then, the same rate schedule applied to residential and commercial calls.

**Table 16. AT&T Discount Rates 1/**

<b>Rates for 7-Minute Direct Dialed Calls Placed by Residential Consumers</b>										
Rates shown as of December 31 unless Otherwise Indicated										
	<b>Peak period rates</b>									
	Reach Out World			TrueWorld Savings				One Rate		
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999 (Aug. 30)
Australia	\$5.81	\$5.60	\$5.46	\$8.21	\$9.46	\$9.46	\$10.08	\$3.09	\$3.29	\$3.29
Brazil	\$5.46	\$4.62	\$4.62	\$7.68	\$8.01	\$9.30	\$9.91	\$4.30	\$4.34	\$4.34
Canada	\$2.66	\$2.66	\$2.80	\$3.33	\$3.14	\$3.30	\$3.53	\$0.84	\$0.84	\$0.84
China				\$10.12	\$9.52	\$13.55	\$14.45	\$8.33	\$9.17	\$9.17
Colombia		\$4.62	\$4.62	\$7.68	\$8.40	\$9.74	\$10.42	\$5.27	\$5.32	\$5.32
Dominican Rep.				\$6.49	\$6.38	\$8.23	\$8.79	\$3.78	\$3.85	\$3.85
Egypt				\$8.81	\$9.46	\$10.98	\$11.70	\$6.20	\$6.37	\$6.37
El Salvador				\$7.20	\$7.00	\$8.46	\$9.02	\$5.55	\$5.60	\$5.60
France	\$4.34	\$4.34	\$4.34	\$6.37	\$5.99	\$7.34	\$7.84	\$2.45	\$2.03	\$2.03
Germany	\$4.34	\$4.34	\$4.34	\$6.49	\$6.10	\$7.17	\$7.67	\$2.45	\$2.03	\$2.03
Greece		\$4.34	\$4.34	\$8.45	\$9.24	\$10.75	\$11.48	\$2.45	\$2.03	\$2.03
Guatemala				\$7.20	\$7.00	\$9.02	\$9.63	\$5.10	\$5.11	\$5.11
Hong Kong	\$5.81	\$5.46	\$5.46	\$8.81	\$8.29	\$9.52	\$10.14	\$4.20	\$4.62	\$4.62
India		\$11.41	\$10.92	\$12.67	\$10.47	\$11.98	\$12.77	\$7.79	\$8.54	\$8.54
Israel	\$6.23	\$5.18	\$5.18	\$8.45	\$9.02	\$10.58	\$11.31	\$4.31	\$4.48	\$4.48
Italy	\$4.34	\$4.34	\$4.48	\$6.78	\$7.00	\$7.84	\$8.34	\$2.45	\$2.03	\$2.03
Japan	\$5.81	\$5.46	\$5.46	\$8.45	\$8.29	\$9.24	\$9.86	\$3.30	\$3.36	\$3.36
Jamaica		\$4.13	\$4.13	\$6.72	\$7.34	\$8.34	\$8.90	\$5.12	\$5.32	\$5.32
Korea, Rep. of	\$5.81	\$5.60	\$5.60	\$9.52	\$9.80	\$10.42	\$11.09	\$4.13	\$4.55	\$4.55
Mexico <u>2/</u>	\$10.23	\$10.09	\$9.88	\$8.39	\$8.12	\$8.90	\$9.52	\$4.55	\$3.43	\$3.43
Netherlands	\$4.34	\$4.34	\$4.34	\$6.25	\$5.88	\$7.11	\$7.56	\$2.45	\$2.03	\$2.03
Nigeria				\$7.08	\$6.66	\$8.57	\$9.13	\$5.14	\$5.32	\$5.32
Pakistan	\$14.21	\$8.47	\$8.82	\$14.70	\$16.41	\$19.94	\$21.28	\$9.10	\$9.24	\$9.24
Peru	\$5.81	\$4.62	\$4.62	\$7.91	\$8.46	\$9.91	\$10.58	\$5.21	\$5.25	\$5.25
Philippines	\$7.63	\$5.60	\$5.60	\$9.04	\$9.58	\$11.31	\$12.04	\$4.90	\$5.39	\$5.39
Poland				\$7.62	\$7.56	\$8.23	\$8.79	\$4.10	\$3.50	\$3.50
Russia				\$11.60	\$10.92	\$11.48	\$12.26	\$7.96	\$8.75	\$8.75
Saudi Arabia				\$8.81	\$8.96	\$10.47	\$11.14	\$7.59	\$7.77	\$7.77
South Africa				\$7.38	\$7.22	\$8.23	\$8.79	\$3.49	\$3.71	\$3.71
Spain	\$4.34	\$4.34	\$4.34	\$7.20	\$7.34	\$9.07	\$9.69	\$2.45	\$2.03	\$2.03
Switzerland	\$4.34	\$4.34	\$4.34	\$6.90	\$6.89	\$8.06	\$8.62	\$2.45	\$2.03	\$2.03
Taiwan	\$5.81	\$5.46	\$5.46	\$9.52	\$8.96	\$10.36	\$11.03	\$4.14	\$4.55	\$4.55
Thailand	\$5.81	\$5.60	\$5.60	\$9.58	\$9.02	\$11.14	\$11.87	\$5.21	\$5.74	\$5.74
United Kingdom	\$4.13	\$4.13	\$4.13	\$5.65	\$5.32	\$5.82	\$6.22	\$0.84	\$0.84	\$0.84
Fisher Ideal Rate Index (1982 basic rates =100)	57.6	53.2	53.8	66.5	64.8	72.8	77.8	26.3	25.0	25.0
% changes		-7.7%	1.1%	23.6%	-2.5%	12.3%	6.7%	-66.2%	-5.0%	0.0%
Index without Mexico	54.5	49.8	50.6	66.8	65.3	73.6	78.6	25.0	24.8	24.8
% changes		-8.6%	1.7%	32.1%	-2.3%	12.8%	6.7%	-68.1%	-0.8%	0.0%

1/ Tariff rates do not include taxes or surcharges. Year-end rates except as indicated. The AT&T "Reach Out World" rates did not offer discounts to all countries for the years shown. AT&T's "TrueWorld (sm) Savings" rates, including "Reach Out World" discounts, are shown for 1993 to 1996. Customers of this plan as well as the "Reach Out-Overseas One Rate" plan must pay a fixed charge of \$3 per month.

2/ Tariff rates for traffic to Mexico are distance sensitive. A "sum of local rates" pricing scheme is used for service to Mexico. For a call to Mexico, AT&T charges its standard domestic rates for the distance to the Mexican border, and also bills the customer for the amount that the Mexican telephone company charges from the border crossing to the destination. The table shows total charges to customers for calls from Washington D.C. to Mexico City.

**Table 16. AT&T Discount Rates 1/**

(continued)

<b>Rates for 7-Minute Direct Dialed Calls Placed by Residential Consumers</b>										
Rates shown as of December 31 unless Otherwise Indicated										
	<b>Off-peak period rates</b>									
	Reach Out World			TrueWorld Savings				One Rate		
	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999 (Aug. 30)
Australia	\$5.81	\$5.60	\$5.46	\$4.64	\$4.87	\$4.87	\$5.21	\$3.09	\$3.29	\$3.29
Brazil	\$5.46	\$4.62	\$4.62	\$4.28	\$4.70	\$5.60	\$5.99	\$4.30	\$4.34	\$4.34
Canada	\$2.66	\$2.66	\$2.80	\$1.13	\$1.18	\$1.34	\$1.23	\$0.84	\$0.84	\$0.84
China				\$6.96	\$6.89	\$9.13	\$9.74	\$8.33	\$9.17	\$9.17
Colombia		\$4.62	\$4.62	\$4.34	\$4.82	\$5.66	\$6.05	\$5.27	\$5.32	\$5.32
Dominican Rep.				\$4.76	\$4.70	\$5.60	\$5.99	\$3.78	\$3.85	\$3.85
Egypt				\$6.13	\$6.05	\$7.22	\$7.73	\$6.20	\$6.37	\$6.37
El Salvador				\$5.12	\$5.04	\$5.94	\$6.33	\$5.55	\$5.60	\$5.60
France	\$4.34	\$4.34	\$4.34	\$3.69	\$3.47	\$3.86	\$4.03	\$2.45	\$2.03	\$2.03
Germany	\$4.34	\$4.34	\$4.34	\$3.69	\$3.47	\$3.75	\$4.03	\$2.45	\$2.03	\$2.03
Greece		\$4.34	\$4.34	\$3.87	\$4.54	\$5.43	\$5.77	\$2.45	\$2.03	\$2.03
Guatemala				\$5.12	\$5.04	\$5.94	\$6.33	\$5.10	\$5.11	\$5.11
Hong Kong	\$5.81	\$5.46	\$5.46	\$4.64	\$4.54	\$5.21	\$5.54	\$4.20	\$4.62	\$4.62
India		\$11.41	\$10.92	\$9.28	\$7.84	\$8.12	\$9.24	\$7.79	\$8.54	\$8.54
Israel	\$6.23	\$5.18	\$5.18	\$4.40	\$4.70	\$5.66	\$6.05	\$4.31	\$4.48	\$4.48
Italy	\$4.34	\$4.34	\$4.48	\$4.05	\$4.31	\$4.93	\$5.26	\$2.45	\$2.03	\$2.03
Japan	\$5.81	\$5.46	\$5.46	\$4.64	\$4.54	\$5.21	\$5.54	\$3.30	\$3.36	\$3.36
Jamaica		\$4.13	\$4.13	\$4.11	\$4.65	\$5.49	\$5.88	\$5.12	\$5.32	\$5.32
Korea, Rep. of	\$5.81	\$5.60	\$5.60	\$4.76	\$4.48	\$4.93	\$5.26	\$4.13	\$4.55	\$4.55
Mexico <u>2/</u>	\$6.30	\$6.30	\$6.30	\$5.36	\$4.98	\$5.60	\$5.99	\$4.55	\$3.43	\$3.43
Netherlands	\$4.34	\$4.34	\$4.34	\$3.69	\$3.47	\$4.14	\$4.42	\$2.45	\$2.03	\$2.03
Nigeria				\$5.89	\$5.54	\$6.61	\$7.06	\$5.14	\$5.32	\$5.32
Pakistan	\$14.21	\$8.47	\$8.82	\$7.79	\$8.40	\$10.47	\$11.14	\$9.10	\$9.24	\$9.24
Peru	\$5.81	\$4.62	\$4.62	\$4.22	\$4.82	\$5.66	\$6.05	\$5.21	\$5.25	\$5.25
Philippines	\$7.63	\$5.60	\$5.60	\$4.82	\$5.43	\$6.05	\$6.44	\$4.90	\$5.39	\$5.39
Poland				\$4.40	\$4.59	\$5.43	\$5.77	\$4.10	\$3.50	\$3.50
Russia				\$7.91	\$7.73	\$8.01	\$8.57	\$7.96	\$8.75	\$8.75
Saudi Arabia				\$5.53	\$5.43	\$6.89	\$7.34	\$7.59	\$7.77	\$7.77
South Africa				\$4.52	\$4.54	\$5.43	\$5.77	\$3.49	\$3.71	\$3.71
Spain	\$4.34	\$4.34	\$4.34	\$4.22	\$4.59	\$5.43	\$5.77	\$2.45	\$2.03	\$2.03
Switzerland	\$4.34	\$4.34	\$4.34	\$3.69	\$3.64	\$4.31	\$4.59	\$2.45	\$2.03	\$2.03
Taiwan	\$5.81	\$5.46	\$5.46	\$4.64	\$4.37	\$4.87	\$5.21	\$4.14	\$4.55	\$4.55
Thailand	\$5.81	\$5.60	\$5.60	\$4.76	\$4.48	\$5.43	\$5.77	\$5.21	\$5.74	\$5.74
United Kingdom	\$4.13	\$4.13	\$4.13	\$3.51	\$3.30	\$3.81	\$4.03	\$0.84	\$0.84	\$0.84
Fisher Ideal Rate Index (1982 basic rates =100)	57.6	53.2	53.8	34.2	34.2	39.1	40.3	25.3	24.0	24.0
% changes		-7.7%	1.1%	-36.4%	0.0%	14.4%	3.1%	-37.3%	-5.0%	0.0%
Index without Mexico	54.5	49.8	50.6	33.0	33.5	38.4	39.3	23.9	23.7	23.7
% changes		-8.6%	1.7%	-34.7%	1.3%	14.7%	2.5%	-39.3%	-0.9%	0.0%

1/ Tariff rates do not include taxes or surcharges. Year-end rates except as indicated. The AT&T "Reach Out World" rates did not offer discounts to all countries for the years shown. AT&T's "TrueWorld (sm) Savings" rates, including "Reach Out World" discounts, are shown for 1993 to 1996. Customers of this plan as well as the "Reach Out-Overseas One Rate" plan must pay a fixed charge of \$3 per month.

2/ Tariff rates for traffic to Mexico are distance sensitive. A "sum of local rates" pricing scheme is used for service to Mexico. For a call to Mexico, AT&T charges its standard domestic rates for the distance to the Mexican border, and also bills the customer for the amount that the Mexican telephone company charges from the border-crossing to the destination. The table shows total charges to customers for calls from Washington D.C. to Mexico City.

**Table 17. Revenue Per Minute for Selected Carriers**

	U.S. Billed Traffic <u>1/</u>			All Traffic that Originates or Terminates in the U.S. <u>1/</u>		
	Number of Minutes (000,000)	U.S. Carrier Revenue (\$000,000)	Billed Revenue per minute	Number of Minutes (000,000)	U.S. Carrier Retained Revenue (\$000,000)	Retained Revenue per minute
<b>AT&amp;T</b>						
1991	6,596	\$6,962	\$1.06	10,020	\$4,279	\$0.43
1992	7,039	\$7,314	\$1.04	10,741	\$4,814	\$0.45
1993	7,201	\$7,482	\$1.04	10,938	\$4,979	\$0.46
1994	8,040	\$7,984	\$0.99	11,807	\$5,229	\$0.44
1995	8,831	\$8,425	\$0.95	12,778	\$5,634	\$0.44
1996	9,546	\$8,559	\$0.90	13,563	\$5,705	\$0.42
1997	10,331	\$8,351	\$0.81	14,529	\$5,786	\$0.40
Annual Rate of Growth 1991 to 1997 <u>2/</u>	8.5%			6.6%		
<b>MCI</b>						
1991	1,600	\$1,487	\$0.93	2,450	\$958	\$0.39
1992	2,101	\$2,065	\$0.98	3,163	\$1,360	\$0.43
1993	2,857	\$2,779	\$0.97	4,175	\$1,789	\$0.43
1994	3,529	\$2,952	\$0.84	5,206	\$1,790	\$0.34
1995	4,486	\$3,968	\$0.88	6,350	\$2,402	\$0.38
1996	5,372	\$3,550	\$0.66	7,496	\$1,772	\$0.24
1997	5,913	\$4,243	\$0.72	8,216	\$2,634	\$0.32
Annual Rate of Growth 1991 to 1997 <u>2/</u>	23.2%			21.2%		
<b>Sprint</b>						
1991	728	\$604	\$0.83	1,139	\$407	\$0.36
1992	946	\$786	\$0.83	1,424	\$520	\$0.37
1993	1,181	\$1,048	\$0.89	1,730	\$706	\$0.41
1994	1,490	\$1,229	\$0.82	2,140	\$742	\$0.35
1995	1,772	\$1,289	\$0.73	2,480	\$741	\$0.30
1996	2,745	\$1,493	\$0.54	4,060	\$672	\$0.17
1997	2,794	\$1,478	\$0.53	4,505	\$822	\$0.18
Annual Rate of Growth 1991 to 1997 <u>2/</u>	26.1%			27.4%		
<b>WorldCom</b>						
1991	3	\$2	\$0.52	4	\$1	\$0.26
1992	12	\$10	\$0.82	21	\$6	\$0.29
1993	92	\$64	\$0.70	132	\$27	\$0.21
1994	278	\$124	\$0.45	362	\$38	\$0.10
1995	544	\$291	\$0.53	798	\$144	\$0.18
1996	846	\$364	\$0.43	1,137	\$100	\$0.09
1997	1,400	\$500	\$0.36	1,842	\$114	\$0.06
Annual Rate of Growth 1993 to 1997 <u>2/</u>	69.8%			68.8%		

1/ Does not include pure resale traffic.

2/ Annual rates of growth estimated using log linear regression.

**Table 18. Pure Resale Compared with Facilities-Based and Facilities-Resale International Telephone Service <sup>1/</sup>**  
(Revenues and minutes shown in thousands)

Company	1991	1992	1993	1994	1995	1996	1997
<b>AT&amp;T</b>							
<b>Facilities-Based and Facilities-Resale</b>							
U.S. Minutes	6,596,014	7,038,969	7,200,907	8,039,868	8,831,143	9,546,094	10,331,159
U.S. Billed Revenue	\$6,962,147	\$7,313,799	\$7,482,250	\$7,984,452	\$8,424,874	\$8,558,833	\$8,351,335
<b>Pure Resale</b>							
U.S. Minutes							61,220
U.S. Billed Revenue							\$42,732
Percent Minutes Handled by Pure Resale							0.6%
<b>MCI</b>							
<b>Facilities-Based and Facilities-Resale</b>							
U.S. Minutes	1,599,786	2,101,422	2,856,890	3,529,197	4,485,504	5,371,998	5,912,943
U.S. Billed Revenue	\$1,486,972	\$2,065,113	\$2,779,355	\$2,952,375	\$3,967,807	\$3,549,540	\$4,243,318
<b>Pure Resale</b>							
U.S. Minutes	64,013	37,142	30,745	28,637	50,559	45,958	34,796
U.S. Billed Revenue	\$65,366	\$47,967	\$34,307	\$55,757	\$51,553	\$42,140	\$39,012
Percent Minutes Handled by Pure Resale	3.8%	1.7%	1.1%	0.8%	1.1%	0.8%	0.6%
<b>SPRINT</b>							
<b>Facilities-Based and Facilities-Resale</b>							
U.S. Minutes	728,442	946,173	1,181,074	1,489,696	1,772,347	2,744,892	2,794,250
U.S. Billed Revenue	\$603,785	\$785,940	\$1,047,749	\$1,228,667	\$1,288,845	\$1,493,416	\$1,478,284
<b>Pure Resale</b>							
U.S. Minutes	72,861	42,326	32,441	32,880	38,425	97,141	124,420
U.S. Billed Revenue	\$88,149	\$63,438	\$28,110	\$56,685	\$68,222	\$87,178	\$94,956
Percent Minutes Handled by Pure Resale	9.1%	4.3%	2.7%	2.2%	2.1%	3.4%	4.3%
<b>Carriers Other than AT&amp;T, MCI and Sprint</b>							
<b>Facilities-Based and Facilities-Resale</b>							
U.S. Minutes	147,616	207,352	274,404	556,885	968,075	1,605,975	3,773,521
U.S. Billed Revenue	\$166,267	\$166,637	\$195,192	\$265,361	\$478,265	\$632,293	\$1,195,378
<b>Pure Resale</b>							
U.S. Minutes	358,087	485,257	665,119	1,260,389	2,452,755	6,981,704	8,352,290
U.S. Billed Revenue	\$286,925	\$399,660	\$528,686	\$1,007,750	\$1,634,614	\$3,506,753	\$3,934,092
Percent Minutes Handled by Pure Resale	70.8%	70.1%	70.8%	69.4%	71.7%	81.3%	68.9%
<b>Combined Totals</b>							
<b>Facilities-Based and Facilities-Resale</b>							
U.S. Minutes	9,071,858	10,293,916	11,513,275	13,615,646	16,057,069	19,268,959	22,811,873
U.S. Billed Revenue	\$9,219,171	\$10,331,489	\$11,504,546	\$12,430,855	\$14,159,791	\$14,234,082	\$15,268,315
Revenue Per Minute	\$1.02	\$1.00	\$1.00	\$0.91	\$0.88	\$0.74	\$0.67
Carriers Other Than AT&T, MCI, and Sprint as a % of Total Facilities-Based and Facilities-Resale Traffic							
U.S. Minutes	1.6%	2.0%	2.4%	4.1%	6.0%	8.3%	16.5%
U.S. Billed Revenue	1.8%	1.6%	1.7%	2.1%	3.4%	4.4%	7.8%
<b>Pure Resale</b>							
# of Reporting Carriers	69	86	130	180	230	313	317
U.S. Minutes	494,961	564,725	728,305	1,321,906	2,541,739	7,124,803	8,572,726
U.S. Billed Revenue	\$440,440	\$511,065	\$591,103	\$1,120,192	\$1,754,389	\$3,636,071	\$4,110,792
Revenue Per Minute	\$0.89	\$0.90	\$0.81	\$0.85	\$0.69	\$0.51	\$0.48
Pure Resale Minutes as % of Facilities-Based and Facilities-Resale Minutes	5.5%	5.5%	6.3%	9.7%	15.8%	37.0%	37.6%

<sup>1/</sup> Carriers handle pure resale traffic by routing calls to other carriers and reselling those carrier's switched services. Facilities-based calls are carried over international circuits in which the carrier has an ownership interest. Facilities-resale calls are carried over international circuits that the carrier leases from other carriers. The data in this table were taken from Section 43.61 Traffic Data reports. The figures are world totals for international message telephone service and, unlike data in Table 4, include international traffic between domestic and offshore U.S. points.

**Table 19. Shares of End-user Revenue**  
(Continued)  
**1995**  
(Dollar amounts shown in millions)

	U.S. Billed Service Revenues						Estimated End-user Revenue <u>1/</u> <u>2/</u> Share	
	Facilities-based & Facilities-Resale Share		Pure Resale Share		All International Share			
<u>International MTS</u>								
AT&T	\$8,425	59.5 %	\$0	0.0 %	\$8,425	52.9 %		
MCI	3,968	28.0	52	3.0	4,020	25.3		
Sprint	1,289	9.1	68	3.9	1,357	8.5		
WorldCom	291	2.1	188	10.7	479	3.0		
Total 4 largest	13,973	98.7	308	17.6	14,281	89.7	13,097	89.7 %
Other Carriers	187	1.3	1,446	82.4	1,633	10.3	1,501	10.3
Total all carriers	14,160	100.0	1,754	100.0	15,914	100.0	14,599	100.0

1/ The data in this table were taken from Section 43.61 Traffic Data reports. The figures are world totals for international message telephone service and, unlike data in Table 4, include international traffic between domestic and offshore U.S. points. Carriers do not report 43.61 traffic data separately for services sold to other carriers vs. services sold to end-users. Estimates are made by using two assumptions: that toll resellers purchase 90% of underlying services from the four largest carriers versus 10% from other facilities-based and resale carriers; and, that pure resellers pay underlying carriers 75 cents out of each dollar of the reseller's revenue.

2/ This figure would be different from the amount that carriers would have reported as end-user revenue on Form 457 Universal Service Worksheets for several reasons: Carriers do not include in their contribution bases revenues from traffic that both originates and terminates outside the United States. Also, a carrier is not required to contribute to Universal Service support mechanisms if neither it nor any affiliates offer any domestic interstate services. Form 457, however, requires carriers to report private line and other international services as well as international telephone services.

**Table 19. Shares of End-user Revenue**  
(Continued)  
1996  
(Dollar amounts shown in millions)

	U.S. Billed Service Revenues						Estimated End-user Revenue <u>1/</u> <u>2/</u> Share	
	Facilities-based & Facilities-Resale Share		Pure Resale Share		All International Share			
<u>International MTS</u>								
AT&T	\$8,559	60.1 %	\$0	0.0 %	\$8,559	47.9 %		
MCI	3,550	24.9	42	1.2	3,592	20.1		
Sprint	1,493	10.5	87	2.4	1,580	8.8		
WorldCom	364	2.6	411	11.3	775	4.3		
Total 4 largest	13,966	98.1	540	14.9	14,506	81.2	12,052	79.6 %
Other Carriers	269	1.9	3,096	85.1	3,365	18.8	3,092	20.4
Total all carriers	14,235	100.0	3,636	100.0	17,871	100.0	15,144	100.0

1/ The data in this table were taken from Section 43.61 Traffic Data reports. The figures are world totals for international message telephone service and, unlike data in Table 4, include international traffic between domestic and offshore U.S. points. Carriers do not report 43.61 traffic data separately for services sold to other carriers vs. services sold to end-users. Estimates are made by using two assumptions: that toll resellers purchase 90% of underlying services from the four largest carriers versus 10% from other facilities-based and resale carriers; and, that pure resellers pay underlying carriers 75 cents out of each dollar of the reseller's revenue.

2/ This figure would be different from the amount that carriers would have reported as end-user revenue on Form 457 Universal Service Worksheets for several reasons: Carriers do not include in their contribution bases revenues from traffic that both originates and terminates outside the United States. Also, a carrier is not required to contribute to Universal Service support mechanisms if neither it nor any affiliates offer any domestic interstate services. Form 457, however, requires carriers to report private line and other international services as well as international telephone services.

**Table 19. Shares of End-user Revenue**

**1997**  
**(Dollar amounts shown in millions)**

	U.S. Billed Service Revenues						Estimated End-user Revenue <u>1/</u> <u>2/</u> Share	
	Facilities-based & Facilities-Resale Share		Pure Resale Share		All International Share			
<u>International MTS</u>								
AT&T	\$8,351	54.7 %	\$43	1.0 %	\$8,394	43.3 %		
MCI	4,243	27.8	39	0.9	4,282	22.1		
Sprint	1,478	9.7	95	2.3	1,573	8.1		
WorldCom	500	3.3	301	7.3	801	4.1		
Total 4 largest	14,572	95.4	478	11.6	15,050	77.7	12,275	75.3 %
Other Carriers	696	4.6	3,633	88.4	4,329	22.3	4,021	24.7
Total all carriers	15,268	100.0	4,111	100.0	19,379	100.0	16,296	100.0

1/ The data in this table were taken from Section 43.61 Traffic Data reports. The figures are world totals for international message telephone service and, unlike data in Table 4, include international traffic between domestic and offshore U.S. points. Carriers do not report 43.61 traffic data separately for services sold to other carriers vs. services sold to end-users. Estimates are made by using two assumptions: that toll resellers purchase 90% of underlying services from the four largest carriers versus 10% from other facilities-based and resale carriers; and, that pure resellers pay underlying carriers 75 cents out of each dollar of the reseller's revenue.

2/ This figure would be different from the amount that carriers would have reported as end-user revenue on Form 457 Universal Service Worksheets for several reasons: Carriers do not include in their contribution bases revenues from traffic that both originates and terminates outside the United States. Also, a carrier is not required to contribute to Universal Service support mechanisms if neither it nor any affiliates offer any domestic interstate services. Form 457, however, requires carriers to report private line and other international services as well as international telephone services.



**Table 20. Net Revenue from International Services by Carrier 1/**

(In millions)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	
<b>Telephone</b>																			
Alascom 2/	\$1.6	\$1.9	\$2.8	\$3.6	\$4.0	\$3.3	\$4.5	\$5.0	\$5.5	\$4.9	\$2.8	\$5.6	\$6.3	\$6.6	\$6.6	\$4.3	---	---	
All America Cable & Radio	\$14.1	\$15.0	\$20.8	\$24.7	\$27.0	N/A	N/A	N/A	N/A	---	---	---	---	---	---	---	---	---	
AT&T Corp.	\$1,402.7	\$1,526.7	\$1,338.1	\$1,562.6	\$1,728.9	\$1,795.7	\$1,852.1	\$2,160.2	\$2,617.6	\$2,945.8	\$3,385.5	\$4,388.9	\$4,956.4	\$5,110.6	\$5,348.1	\$5,714.8	\$5,773.5	\$5,845.4	
Cuban American	\$3.5	\$4.6	\$4.5	\$5.0	\$4.8	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
FTC Communications	---	---	---	---	---	---	---	\$9.2	\$5.2	\$6.4	---	---	---	---	---	---	---	---	
GTE / Hawaiian Telephone	\$117.4	\$116.7	\$126.2	\$123.3	\$28.7	\$28.5	\$25.5	\$10.0	\$19.1	\$27.8	\$33.7	\$26.2	\$31.6	\$30.8	\$30.9	\$31.3	\$35.2	\$27.9	
IDB WorldCom Svcs., Inc. 3/	---	---	---	---	---	---	---	---	---	---	---	---	---	\$27.4	---	---	---	---	
ITT Communications-V.I.	\$9.6	\$8.7	\$10.0	\$17.8	\$12.0	N/A	N/A	N/A	N/A	---	---	---	---	---	---	---	---	---	
MCI / WUI 4/	---	---	---	---	---	\$13.9	\$60.4	\$112.1	\$189.3	\$362.2	\$527.6	\$971.0	\$1,379.4	\$1,834.0	\$1,854.5	\$2,472.3	\$1,828.4	\$2,691.2	
Sprint	---	---	---	---	---	\$1.8	\$15.3	\$39.0	\$73.2	\$155.4	\$267.6	\$408.3	\$525.7	\$713.7	\$770.8	\$754.7	\$688.5	\$838.2	
TRT Telecommunications	---	---	---	---	---	---	---	\$1.2	\$5.6	\$10.8	\$18.4	\$12.5	\$9.3	---	---	---	---	---	
WorldCom, Inc.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	\$38.0	\$144.4	\$100.0	\$114.0	
Other Carriers	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$90.0	\$65.5	\$76.5	\$91.0	\$95.4	\$150.1	\$296.3	
<b>Total</b>	<b>\$1,549.0</b>	<b>\$1,673.6</b>	<b>\$1,502.3</b>	<b>\$1,737.0</b>	<b>\$1,805.5</b>	<b>\$1,843.2</b>	<b>\$1,957.8</b>	<b>\$2,336.6</b>	<b>\$2,915.5</b>	<b>\$3,513.4</b>	<b>\$4,235.7</b>	<b>\$5,902.4</b>	<b>\$6,974.2</b>	<b>\$7,799.6</b>	<b>\$8,140.0</b>	<b>\$9,217.3</b>	<b>\$8,575.7</b>	<b>\$9,813.0</b>	
<b>Telex</b>																			
AT&T	---	---	---	---	---	---	---	---	---	---	---	---	\$63.6	\$52.0	\$42.4	\$54.6	\$57.0	\$65.4	\$64.2
FTC Communications	\$2.9	\$3.8	\$4.3	\$5.1	\$7.5	\$9.4	\$10.6	\$9.8	\$8.2	\$9.5	---	---	---	---	---	---	---	---	---
IDB WorldCom Svcs., Inc. 3/	---	---	---	---	---	---	---	---	---	---	---	---	---	\$22.5	---	---	---	---	---
ITT Worldcom	\$113.4	\$121.0	\$129.8	\$121.5	\$120.1	\$113.2	\$108.0	\$102.0	---	---	---	---	---	---	---	---	---	---	---
MCI / WUI 4/	---	---	---	\$85.2	\$87.3	\$79.2	\$73.1	\$62.2	\$53.7	\$59.0	\$101.6	\$90.8	\$77.1	\$66.4	\$50.9	\$43.8	\$35.4	\$27.4	
RCA Globcom	\$106.0	\$104.6	\$100.5	\$107.5	\$117.8	\$117.3	\$109.2	\$100.1	\$80.2	\$74.2	---	---	---	---	---	---	---	---	---
Sprint	---	---	---	---	---	---	---	---	---	---	N/A	\$0.7	\$0.7	\$0.7	\$1.3	\$1.7	\$1.1	\$0.7	
TRT Telecommunications	\$24.0	\$32.4	\$37.9	\$38.1	\$46.9	\$52.6	\$55.3	\$60.4	\$49.8	\$45.1	\$50.5	\$47.6	\$34.2	---	---	---	---	---	
Western Union	---	---	---	---	\$28.5	\$33.1	\$38.0	\$34.8	\$107.9	\$86.2	\$59.5	---	---	---	---	---	---	---	
Western Union International	\$77.0	\$89.3	\$91.6	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
WorldCom, Inc.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	\$12.1	\$10.1	\$7.7	\$5.6	
Other Carriers	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$0.3	\$0.1	\$0.1	\$0.0	\$0.1	\$0.1	\$0.1	
<b>Total</b>	<b>\$323.3</b>	<b>\$351.2</b>	<b>\$364.1</b>	<b>\$357.3</b>	<b>\$408.0</b>	<b>\$404.8</b>	<b>\$394.2</b>	<b>\$369.3</b>	<b>\$299.9</b>	<b>\$274.0</b>	<b>\$211.6</b>	<b>\$202.9</b>	<b>\$164.2</b>	<b>\$132.0</b>	<b>\$118.9</b>	<b>\$112.7</b>	<b>\$109.8</b>	<b>\$97.9</b>	
<b>Telegraph</b>																			
AT&T	---	---	---	---	---	---	---	---	---	---	---	---	\$4.8	\$7.2	\$6.5	\$5.9	\$3.0	\$2.2	\$1.4
FTC Communications	\$0.7	\$0.9	\$0.8	\$0.8	\$1.1	\$1.2	\$1.2	\$1.1	\$0.9	\$0.9	---	---	---	---	---	---	---	---	---
IDB WorldCom Svcs., Inc. 3/	---	---	---	---	---	---	---	---	---	---	---	---	---	\$1.2	---	---	---	---	---
ITT Worldcom	\$10.8	\$9.7	\$8.8	\$7.1	\$4.8	\$5.2	\$5.7	\$5.0	---	---	---	---	---	---	---	---	---	---	---
MCI / WUI 4/	---	---	---	\$5.7	\$4.1	\$4.1	\$4.8	\$4.1	\$3.0	\$3.4	\$7.6	\$6.8	\$5.6	\$4.5	\$3.5	\$3.1	\$2.8	\$1.9	
RCA Globcom	\$10.8	\$9.7	\$8.1	\$6.6	\$5.7	\$7.1	\$7.1	\$4.3	\$3.2	\$2.9	---	---	---	---	---	---	---	---	
TRT Telecommunications	\$3.9	\$4.0	\$4.1	\$3.3	\$2.8	\$3.4	\$3.9	\$3.4	\$3.2	\$2.8	\$5.6	\$4.0	\$2.7	---	---	---	---	---	
U.S.-Liberia	\$0.1	\$0.2	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.0	\$0.0	---	---	---	---	---	---	---	
Western Union	---	---	---	---	\$2.7	\$5.6	\$7.8	\$6.5	\$10.5	\$10.3	\$11.5	---	---	---	---	---	---	---	
Western Union International	\$11.7	\$11.1	\$8.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
WorldCom, Inc.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	\$3.1	\$1.2	\$0.6	\$0.5	
Other Carriers	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	
<b>Total</b>	<b>\$37.9</b>	<b>\$35.5</b>	<b>\$30.1</b>	<b>\$23.6</b>	<b>\$21.3</b>	<b>\$26.7</b>	<b>\$30.5</b>	<b>\$24.6</b>	<b>\$21.0</b>	<b>\$20.3</b>	<b>\$24.7</b>	<b>\$15.7</b>	<b>\$15.5</b>	<b>\$12.2</b>	<b>\$12.5</b>	<b>\$7.2</b>	<b>\$5.6</b>	<b>\$3.9</b>	

See notes on final page of table.

**Table 20. Net Revenue from International Services by Carrier <sup>1/</sup>**

(In millions)

(continued)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
<b>Private Line</b>																		
All America Cable & Radio	\$0.3	\$0.9	\$0.4	\$0.4	\$0.7	N/A	N/A	N/A	N/A	---	---	---	---	---	---	---	---	---
AT&T	\$7.4	\$5.1	\$4.8	\$5.0	\$4.9	\$6.7	\$8.9	\$8.4	\$37.5	\$42.5	\$64.6	\$114.4	\$121.7	\$141.5	\$171.9	\$213.9	\$261.5	\$353.1
Cuban American	\$0.1	\$0.1	\$0.1	\$0.1	\$0.0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
FTC Communications	\$2.4	\$4.1	\$5.4	\$6.5	\$8.8	\$10.1	\$12.7	\$13.1	\$12.6	\$12.9	---	---	---	---	---	---	---	---
GTE / Hawaiian Telephone	\$6.4	\$7.6	\$8.4	\$9.3	\$1.2	\$1.4	\$1.3	\$17.8	\$9.7	\$8.9	\$1.3	\$1.6	\$1.6	\$2.2	\$2.0	\$1.6	\$2.3	\$2.7
IDB WorldCom Svcs., Inc. <sub>3/</sub>	---	---	---	---	---	---	---	---	---	---	---	\$30.3	\$42.2	\$85.9	---	---	---	---
ITT Communications-V.I.	\$0.6	\$0.5	\$0.5	\$0.3	\$0.4	N/A	N/A	N/A	N/A	---	---	---	---	---	---	---	---	---
ITT Worldcom	\$34.3	\$36.0	\$39.6	\$45.7	\$48.9	\$53.1	\$51.9	\$52.1	---	---	---	---	---	---	---	---	---	---
MCI / WUI <sub>4/</sub>	---	---	---	\$33.2	\$32.5	\$34.9	\$34.5	\$36.4	\$39.7	\$50.3	\$69.6	\$76.7	\$81.8	\$94.3	\$125.5	\$147.9	\$189.6	\$262.5
RCA Globcom	\$36.5	\$40.3	\$42.9	\$47.4	\$51.8	\$54.9	\$54.0	\$50.1	\$46.9	\$38.2	---	---	---	---	---	---	---	---
Sprint	---	---	---	---	---	---	---	---	---	---	\$2.4	\$6.2	\$1.3	\$23.8	\$38.7	\$41.7	\$59.6	\$65.2
TRT Telecommunications	\$3.6	\$4.6	\$5.4	\$6.1	\$7.1	\$8.8	\$9.6	\$10.6	\$12.8	\$13.3	\$27.3	\$22.7	\$22.5	---	---	---	---	---
Western Union	---	---	---	---	\$1.3	\$2.0	\$1.9	\$2.5	\$35.0	\$6.5	\$0.0	---	---	---	---	---	---	---
Western Union International	\$23.2	\$26.9	\$30.4	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
World Communications	---	---	---	---	---	---	---	---	---	\$35.5	\$38.6	\$41.3	\$34.4	---	---	---	---	---
WorldCom, Inc.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	\$89.8	\$84.8	\$104.7	\$94.9
Other Carriers	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$13.6	\$17.8	\$18.3	\$13.0	\$37.9	\$43.1	\$72.5
<b>Total</b>	<b>\$114.8</b>	<b>\$126.0</b>	<b>\$138.0</b>	<b>\$154.0</b>	<b>\$157.6</b>	<b>\$171.9</b>	<b>\$174.9</b>	<b>\$190.9</b>	<b>\$194.2</b>	<b>\$208.0</b>	<b>\$203.8</b>	<b>\$307.1</b>	<b>\$323.4</b>	<b>\$366.1</b>	<b>\$440.9</b>	<b>\$527.7</b>	<b>\$660.7</b>	<b>\$850.9</b>
<b>Total Telephone, Telex, Telegraph and Private Line</b>																		
Alascom <sub>2/</sub>	\$1.6	\$1.9	\$2.8	\$3.6	\$4.0	\$3.3	\$4.5	\$5.0	\$5.5	\$4.9	\$2.8	\$5.6	\$6.3	\$6.6	\$6.6	\$4.3	---	---
All America Cable & Radio	\$14.4	\$15.8	\$21.2	\$25.1	\$27.7	---	---	---	---	---	---	---	---	---	---	---	---	---
AT&T	\$1,410.1	\$1,531.8	\$1,342.9	\$1,567.6	\$1,733.8	\$1,802.4	\$1,861.0	\$2,168.5	\$2,655.1	\$2,988.3	\$3,450.1	\$4,571.7	\$5,137.3	\$5,300.9	\$5,580.5	\$5,988.7	\$6,102.6	\$6,264.2
Cuban American	\$3.6	\$4.7	\$4.6	\$5.1	\$4.8	---	---	---	---	---	---	---	---	---	---	---	---	---
FTC Communications	\$6.0	\$8.8	\$10.6	\$12.4	\$17.3	\$20.7	\$24.4	\$33.2	\$27.0	\$29.7	---	---	---	---	---	---	---	---
GTE / Hawaiian Telephone	\$123.8	\$124.3	\$134.6	\$132.6	\$29.8	\$29.9	\$26.8	\$27.8	\$28.8	\$36.8	\$35.0	\$27.9	\$33.2	\$33.0	\$33.0	\$32.9	\$37.5	\$30.6
IDB WorldCom Svcs., Inc. <sub>3/</sub>	---	---	---	---	---	---	---	---	---	---	---	\$30.3	\$42.2	\$42.2	---	---	---	---
ITT Communications-V.I.	\$10.2	\$9.2	\$10.5	\$18.2	\$12.4	---	---	---	---	---	---	---	---	---	---	---	---	---
ITT Worldcom	\$158.4	\$166.8	\$178.2	\$174.3	\$173.8	\$171.4	\$165.6	\$159.1	---	---	---	---	---	---	---	---	---	---
MCI / WUI <sub>4/</sub>	---	---	---	\$124.1	\$124.0	\$132.1	\$172.8	\$214.8	\$285.7	\$474.8	\$706.5	\$1,145.3	\$1,543.9	\$1,999.2	\$2,034.4	\$2,667.0	\$2,056.1	\$2,983.0
RCA Globcom	\$153.3	\$154.6	\$151.5	\$161.5	\$175.3	\$179.3	\$170.4	\$154.5	\$130.4	\$115.2	---	---	---	---	---	---	---	---
Sprint	---	---	---	---	---	\$1.8	\$15.3	\$39.0	\$73.2	\$155.4	\$270.0	\$415.2	\$527.7	\$738.2	\$810.8	\$798.1	\$749.2	\$904.1
TRT Telecommunications	\$31.4	\$41.0	\$47.4	\$47.4	\$56.8	\$64.8	\$68.8	\$75.5	\$71.4	\$72.0	\$101.9	\$86.8	\$68.7	---	---	---	---	---
U.S.-Liberia	\$0.1	\$0.2	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.1	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0
Western Union	---	---	---	---	\$32.4	\$40.7	\$47.8	\$43.9	\$153.4	\$103.0	\$71.0	---	---	---	---	---	---	---
Western Union International	\$111.9	\$127.2	\$130.1	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
World Communications	---	---	---	---	---	---	---	---	---	\$35.5	\$38.6	\$41.3	\$34.4	---	---	---	---	---
WorldCom, Inc.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	\$142.9	\$240.5	\$213.0	\$215.1
Other Carriers	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$103.9	\$83.4	\$94.9	\$104.0	\$133.3	\$193.3	\$368.8
<b>Total</b>	<b>\$2,024.9</b>	<b>\$2,186.2</b>	<b>\$2,034.5</b>	<b>\$2,271.9</b>	<b>\$2,392.4</b>	<b>\$2,446.5</b>	<b>\$2,557.4</b>	<b>\$2,921.4</b>	<b>\$3,430.7</b>	<b>\$4,015.7</b>	<b>\$4,675.8</b>	<b>\$6,428.1</b>	<b>\$7,477.2</b>	<b>\$8,215.1</b>	<b>\$8,712.2</b>	<b>\$9,864.9</b>	<b>\$9,351.8</b>	<b>\$10,765.7</b>

<sup>1/</sup> For switched services, net revenues equals billed revenues minus settlement payouts plus settlement receipts.

For private line services, net revenues equals billed revenues.

<sup>2/</sup> Alascom was sold to AT&T in August of 1995. The information reported for Alascom is for January through July of 1995.

AT&T Alascom is included with AT&T for August through December of 1995.

<sup>3/</sup> IDB WorldCom Services, Inc. figures consist also of TRT Telecommunications, World Communications, and CICI, Inc.

<sup>4/</sup> MCI/WUI figures consist of MCI International, Inc. and Western Union International, Inc.

**Table 21. Market Shares Based on Net Revenue from International Services by Carrier**

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
<b>Telephone</b>																		
Atascom 2/	0.1%	0.1%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	----	----
All America Cable & Radio	0.9%	0.9%	1.4%	1.4%	1.5%	----	----	----	----	----	----	----	----	----	----	----	----	----
AT&T Corp.	90.6%	91.2%	89.1%	90.0%	95.8%	97.4%	94.6%	92.4%	89.8%	83.8%	79.9%	74.4%	71.1%	65.5%	65.7%	62.0%	67.3%	59.6%
Cuban American	0.2%	0.3%	0.3%	0.3%	0.3%	----	----	----	----	----	----	----	----	----	----	----	----	----
FTC Communications	----	----	----	----	----	----	----	0.4%	0.2%	0.2%	----	----	----	----	----	----	----	----
GTE / Hawaiian Telephone	7.6%	7.0%	8.4%	7.1%	1.6%	1.5%	1.3%	0.4%	0.7%	0.8%	0.8%	0.4%	0.5%	0.4%	0.4%	0.3%	0.4%	0.3%
IDB WorldCom Svcs., Inc._3/	----	----	----	----	----	----	----	----	----	----	----	----	----	0.4%	----	----	----	----
ITT Communications-V.I.	0.6%	0.5%	0.7%	1.0%	0.7%	----	----	----	----	----	----	----	----	----	----	----	----	----
MCI / WUI_4/	----	----	----	----	----	0.8%	3.1%	4.8%	6.5%	10.3%	12.5%	16.5%	19.8%	23.5%	22.8%	26.8%	21.3%	27.4%
Sprint	----	----	----	----	----	0.1%	0.8%	1.7%	2.5%	4.4%	6.3%	6.9%	7.5%	9.1%	9.5%	8.2%	8.0%	8.5%
TRT Telecommunications	----	----	----	----	----	----	----	0.0%	0.2%	0.3%	0.4%	0.2%	0.1%	----	----	----	----	----
WorldCom, Inc.	----	----	----	----	----	----	----	----	----	----	----	----	----	----	0.5%	1.6%	1.2%	1.2%
Other Carriers	----	----	----	----	----	----	----	----	----	----	----	1.5%	0.9%	1.0%	1.1%	1.0%	1.8%	3.0%
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>
<b>Telex</b>																		
AT&T	----	----	----	----	----	----	----	----	----	----	----	31.3%	31.7%	32.1%	45.9%	50.6%	59.6%	65.5%
FTC Communications	0.9%	1.1%	1.2%	1.4%	1.8%	2.3%	2.7%	2.7%	2.7%	3.5%	----	----	----	----	----	----	----	----
IDB WorldCom Svcs., Inc._3/	----	----	----	----	----	----	----	----	----	----	----	----	----	17.0%	----	----	----	----
ITT Worldcom	35.1%	34.5%	35.6%	34.0%	29.4%	28.0%	27.4%	27.6%	----	----	----	----	----	----	----	----	----	----
MCI / WUI_4/	----	----	----	23.8%	21.4%	19.6%	18.5%	16.8%	17.9%	21.5%	48.0%	44.7%	46.9%	50.3%	42.8%	38.8%	32.2%	27.9%
RCA Globcom	32.8%	29.8%	27.6%	30.1%	28.9%	29.0%	27.7%	27.1%	26.7%	27.1%	----	----	----	----	----	----	----	----
Sprint	----	----	----	----	----	----	----	----	----	----	----	0.4%	0.4%	0.5%	1.1%	1.5%	1.0%	0.7%
TRT Telecommunications	7.4%	9.2%	10.4%	10.7%	11.5%	13.0%	14.0%	16.3%	16.6%	16.5%	23.9%	23.5%	20.8%	----	----	----	----	----
Western Union	----	----	----	----	7.0%	8.2%	9.7%	9.4%	36.0%	31.5%	28.1%	----	----	----	----	----	----	----
Western Union International	23.8%	25.4%	25.2%	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WorldCom, Inc.	----	----	----	----	----	----	----	----	----	----	----	----	----	----	10.2%	9.0%	7.1%	5.7%
Other Carriers	----	----	----	----	----	----	----	----	----	----	----	0.1%	0.1%	0.1%	0.0%	0.1%	0.1%	0.1%
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>
<b>Telegraph</b>																		
AT&T	----	----	----	----	----	----	----	----	----	----	----	30.9%	46.3%	52.9%	47.0%	40.8%	40.2%	36.4%
FTC Communications	1.9%	2.4%	2.8%	3.3%	5.2%	4.5%	3.8%	4.3%	4.5%	4.4%	----	----	----	----	----	----	----	----
IDB WorldCom Svcs., Inc._3/	----	----	----	----	----	----	----	----	----	----	----	----	----	10.1%	----	----	----	----
ITT Worldcom	28.4%	27.3%	29.3%	30.2%	22.5%	19.4%	18.5%	20.5%	----	----	----	----	----	----	----	----	----	----
MCI / WUI_4/	----	----	----	24.1%	19.4%	15.3%	15.7%	16.8%	14.5%	16.8%	30.7%	43.7%	36.4%	37.0%	28.4%	43.1%	49.3%	50.2%
RCA Globcom	28.5%	27.2%	27.0%	28.0%	26.7%	26.7%	23.4%	17.5%	15.5%	14.1%	----	----	----	----	----	----	----	----
TRT Telecommunications	10.2%	11.4%	13.6%	13.9%	13.1%	12.6%	12.6%	13.8%	15.3%	13.7%	22.7%	25.3%	17.3%	----	----	----	----	----
U.S.-Liberia	0.3%	0.5%	0.5%	0.5%	0.6%	0.4%	0.4%	0.4%	0.4%	0.2%	0.1%	----	----	----	----	----	----	----
Western Union	----	----	----	----	12.5%	21.0%	25.6%	26.5%	49.8%	50.8%	46.4%	----	----	----	----	----	----	----
Western Union International	30.7%	31.2%	26.9%	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
WorldCom, Inc.	----	----	----	----	----	----	----	----	----	----	----	----	----	----	24.6%	16.1%	10.5%	13.4%
Other Carriers	----	----	----	----	----	----	----	----	----	----	----	0.0%	0.0%	0.0%	0.0%	0.0%	----	0.0%
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

See notes on final page of table.

**Table 21. Market Shares Based on Net Revenue from International Services by Carrier**

(continued)

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
<b>Private Line</b>																		
All America Cable & Radio	0.3%	0.7%	0.3%	0.3%	0.4%	----	----	----	----	----	----	----	----	----	----	----	----	----
AT&T	6.5%	4.0%	3.5%	3.2%	3.1%	3.9%	5.1%	4.4%	19.3%	20.4%	31.7%	37.3%	37.6%	38.7%	39.0%	40.5%	39.6%	41.5%
Cuban American	0.1%	0.0%	0.1%	0.1%	0.0%	----	----	----	----	----	----	----	----	----	----	----	----	----
FTC Communications	2.1%	3.2%	3.9%	4.2%	5.6%	5.9%	7.2%	6.9%	6.5%	6.2%	----	----	----	----	----	----	----	----
GTE / Hawaiian Telephone	5.6%	6.1%	6.1%	6.1%	0.7%	0.8%	0.7%	9.3%	5.0%	4.3%	0.6%	0.5%	0.5%	0.6%	0.5%	0.3%	0.3%	0.3%
IDB WorldCom Svcs., Inc. <sub>3/</sub>	----	----	----	----	----	----	----	----	----	----	----	9.9%	13.1%	23.5%	----	----	----	----
ITT Communications-V.I.	0.5%	0.4%	0.4%	0.2%	0.3%	----	----	----	----	----	----	----	----	----	----	----	----	----
ITT Worldcom	29.9%	28.6%	28.7%	29.7%	31.1%	30.9%	29.7%	27.3%	----	----	----	----	----	----	----	----	----	----
MCI / WUI <sub>4/</sub>	----	----	----	21.6%	20.6%	20.3%	19.7%	19.0%	20.4%	24.2%	34.2%	25.0%	25.3%	25.8%	28.5%	28.0%	28.7%	30.8%
RCA Globcom	31.8%	32.0%	31.1%	30.8%	32.9%	31.9%	30.9%	26.2%	24.2%	18.4%	----	----	----	----	----	----	----	----
Sprint	----	----	----	----	----	----	----	----	----	----	1.2%	2.0%	0.4%	6.5%	8.8%	7.9%	9.0%	7.7%
TRT Telecommunications	3.1%	3.6%	3.9%	4.0%	4.5%	5.1%	5.5%	5.6%	6.6%	6.4%	13.4%	7.4%	7.0%	----	----	----	----	----
Western Union	----	----	----	----	0.8%	1.2%	1.1%	1.3%	18.0%	3.1%	0.0%	----	1.1%	----	----	----	----	----
Western Union International	20.2%	21.3%	22.1%	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
World Communications	----	----	----	----	----	----	----	----	----	17.1%	18.9%	13.5%	10.6%	----	----	----	----	----
WorldCom, Inc.	----	----	----	----	----	----	----	----	----	----	----	----	----	----	20.4%	16.1%	15.8%	11.2%
Other Carriers	----	----	----	----	----	----	----	----	----	----	----	4.4%	5.5%	5.0%	2.9%	7.2%	6.5%	8.5%
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>
<b>Total Telephone, Telex, Telegraph and Private Line</b>																		
Alascom <sub>2/</sub>	0.1%	0.1%	0.1%	0.2%	0.2%	0.1%	0.2%	0.2%	0.2%	0.1%	0.1%	0.1%	0.1%	0.1%	0.1%	0.0%	----	----
All America Cable & Radio	0.7%	0.7%	1.0%	1.1%	1.2%	----	----	----	----	----	----	----	----	----	----	----	----	----
AT&T	69.6%	70.1%	66.0%	69.0%	72.5%	73.7%	72.8%	74.2%	77.4%	74.4%	73.8%	71.1%	68.7%	64.5%	64.1%	60.7%	65.3%	58.2%
Cuban American	0.2%	0.2%	0.2%	0.2%	0.2%	----	----	----	----	----	----	----	----	----	----	----	----	----
FTC Communications	0.3%	0.4%	0.5%	0.5%	0.7%	0.8%	1.0%	1.1%	0.8%	0.7%	----	----	----	----	----	----	----	----
GTE / Hawaiian Telephone	6.1%	5.7%	6.6%	5.8%	1.2%	1.2%	1.0%	1.0%	0.8%	0.9%	0.7%	0.4%	0.4%	0.4%	0.4%	0.3%	0.4%	0.3%
IDB WorldCom Svcs., Inc. <sub>3/</sub>	----	----	----	----	----	----	----	----	----	----	----	0.5%	0.6%	0.5%	----	----	----	----
ITT Communications-V.I.	0.5%	0.4%	0.5%	0.8%	0.5%	----	----	----	----	----	----	----	----	----	----	----	----	----
ITT Worldcom	7.8%	7.6%	8.8%	7.7%	7.3%	7.0%	6.5%	5.4%	----	----	----	----	----	----	----	----	----	----
MCI / WUI <sub>4/</sub>	----	----	----	5.5%	5.2%	5.4%	6.8%	7.4%	8.3%	11.8%	15.1%	17.8%	20.6%	24.3%	23.4%	27.0%	22.0%	27.7%
RCA Globcom	7.6%	7.1%	7.4%	7.1%	7.3%	7.3%	6.7%	5.3%	3.8%	2.9%	----	----	----	----	----	----	----	----
Sprint	----	----	----	----	----	0.1%	0.6%	1.3%	2.1%	3.9%	5.8%	6.5%	7.1%	9.0%	9.3%	8.1%	8.0%	8.4%
TRT Telecommunications	1.6%	1.9%	2.3%	2.1%	2.4%	2.6%	2.7%	2.6%	2.1%	1.8%	2.2%	1.4%	0.9%	----	----	----	----	----
U.S.-Liberia	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	----	----	----	----	----	----	----	----
Western Union	----	----	----	----	1.4%	1.7%	1.9%	1.5%	4.5%	2.6%	1.5%	----	----	----	----	----	----	----
Western Union International	5.5%	5.8%	6.4%	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
World Communications	----	----	----	----	----	----	----	----	----	0.9%	0.8%	0.6%	0.5%	----	----	----	----	----
WorldCom, Inc.	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1.6%	2.4%	2.3%	2.0%
Other Carriers	----	----	----	----	----	----	----	----	----	----	----	1.6%	1.1%	1.2%	1.2%	1.4%	2.1%	3.4%
<b>Total</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>	<b>100.0%</b>

1/ For switched services, net revenues equals billed revenues minus settlement payouts plus settlement receipts.

For private line services, net revenues equals billed revenues.

2/ Alascom was sold to AT&T in August of 1995. The information reported for Alascom is for January through July of 1995.

AT&T Alascom is included with AT&T for August through December of 1995.

3/ IDB WorldCom Services, Inc. figures consist also of TRT Telecommunications, World Communications, and CICI, Inc.

4/ MCI/WUI figures consist of MCI International, Inc. and Western Union International, Inc.

**Table 22. Carrier Shares of International Telephone Service Revenues for Selected Markets**

<i>Based on Billed Revenues for Continental U.S. Traffic</i>														
Country	1985			1986			1987				1988			
	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	Others	AT&T	MCI	Sprint	Others
Australia	94.4%	3.6%	2.0%	87.0%	8.4%	4.6%	83.2%	9.5%	7.2%	0.1%	80.2%	12.2%	6.7%	0.8%
Brazil	90.6%	9.4%	0.0%	80.6%	19.4%	0.0%	90.8%	9.2%	0.0%	0.0%	87.1%	12.6%	0.0%	0.3%
Canada	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
China	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Colombia	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	94.3%	4.6%	0.0%	1.0%
Dominican Rep.	100.0%	0.0%	0.0%	97.3%	0.0%	2.7%	96.5%	0.0%	3.5%	0.0%	98.6%	0.0%	1.4%	0.0%
Egypt	88.0%	8.3%	3.8%	89.3%	7.5%	3.3%	91.2%	8.8%	0.0%	0.0%	86.0%	13.2%	0.0%	0.8%
El Salvador	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
France	100.0%	0.0%	0.0%	93.9%	6.1%	0.0%	82.1%	10.8%	0.9%	6.2%	79.9%	13.7%	5.2%	0.0%
Germany <sup>1/</sup>	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	92.3%	5.0%	2.6%	0.3%
Greece	92.4%	7.6%	0.0%	83.4%	16.6%	0.0%	89.3%	10.7%	0.0%	0.0%	86.3%	11.9%	1.9%	0.0%
Guatemala	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Hong Kong	98.5%	0.0%	1.5%	81.2%	8.5%	10.3%	81.3%	11.4%	7.2%	0.0%	79.5%	13.4%	6.5%	0.6%
India	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	99.9%	0.0%	0.0%	0.1%	98.4%	0.0%	0.1%	1.5%
Israel	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	98.4%	1.6%	0.0%	0.0%	88.5%	8.8%	2.8%	0.0%
Italy	100.0%	0.0%	0.0%	98.3%	1.7%	0.0%	91.0%	6.2%	2.8%	0.0%	86.8%	9.3%	3.8%	0.0%
Jamaica	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Japan	100.0%	0.0%	0.0%	97.7%	1.5%	0.8%	88.8%	6.2%	5.0%	0.0%	83.6%	9.7%	6.7%	0.0%
Korea, Rep. of	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	99.4%	0.5%	0.1%	0.0%
Mexico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Netherlands	100.0%	0.0%	0.0%	98.8%	1.2%	0.0%	92.3%	7.7%	0.0%	0.0%	84.5%	11.8%	3.7%	0.0%
Nigeria	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Pakistan	100.0%	0.0%	0.0%	99.8%	0.2%	0.0%	88.6%	11.4%	0.0%	0.0%	89.3%	10.7%	0.0%	0.0%
Peru	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	98.6%	0.0%	1.4%	0.0%	98.0%	0.0%	2.0%	0.0%
Philippines	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Poland	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Russia	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Saudi Arabia	94.6%	5.4%	0.0%	82.3%	17.7%	0.0%	89.3%	10.7%	0.0%	0.0%	85.6%	14.4%	0.0%	0.0%
South Africa	94.2%	5.8%	0.0%	92.3%	7.7%	0.0%	89.7%	10.3%	0.0%	0.0%	90.3%	9.7%	0.0%	0.0%
Spain	100.0%	0.0%	0.0%	97.4%	2.6%	0.0%	90.8%	6.7%	2.5%	0.0%	86.4%	9.7%	3.9%	0.0%
Switzerland	100.0%	0.0%	0.0%	99.8%	0.2%	0.0%	93.7%	6.3%	0.0%	0.0%	83.9%	12.4%	3.7%	0.0%
Taiwan	97.3%	1.7%	1.0%	83.4%	8.6%	8.0%	80.4%	12.7%	6.8%	0.0%	77.9%	14.3%	7.7%	0.2%
Thailand	93.9%	5.7%	0.4%	74.7%	11.0%	14.3%	86.8%	8.4%	4.8%	0.0%	82.4%	11.8%	5.8%	0.0%
United Kingdom	95.1%	3.6%	1.4%	87.5%	9.1%	3.4%	84.5%	9.9%	5.1%	0.5%	81.3%	11.8%	5.8%	1.0%

<i>Based on Settlement Receipts for Foreign Traffic to the Continental U.S.</i>														
Country	1985			1986			1987				1988			
	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	Others	AT&T	MCI	Sprint	Others
Australia	97.2%	1.6%	1.2%	71.4%	17.9%	10.7%	78.3%	12.2%	9.5%	0.0%	78.6%	12.7%	8.6%	0.0%
Brazil	98.4%	1.6%	0.0%	77.7%	22.3%	0.0%	89.5%	10.5%	0.0%	0.0%	89.0%	11.0%	0.0%	0.0%
Canada	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
China	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Colombia	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	97.2%	2.3%	0.0%	0.5%
Dominican Rep.	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	98.9%	0.0%	1.1%	0.0%	97.5%	0.0%	2.5%	0.0%
Egypt	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	90.5%	9.5%	0.0%	0.0%
El Salvador	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
France	100.0%	0.0%	0.0%	98.0%	2.0%	0.0%	82.9%	9.0%	1.1%	7.1%	75.4%	14.2%	4.8%	5.6%
Germany <sup>1/</sup>	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	98.6%	1.1%	0.3%	0.3%
Greece	93.1%	6.5%	0.0%	72.9%	27.1%	0.0%	82.8%	17.2%	0.0%	0.0%	83.6%	15.6%	0.7%	0.0%
Guatemala	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Hong Kong	84.2%	9.7%	6.0%	84.3%	9.7%	6.0%	81.1%	13.0%	5.9%	0.0%	74.5%	17.8%	6.7%	1.0%
India	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Israel	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	98.2%	1.8%	0.0%	0.0%	91.3%	5.3%	3.4%	0.0%
Italy	100.0%	0.0%	0.0%	99.7%	0.3%	0.0%	81.8%	12.8%	5.3%	0.0%	78.6%	12.8%	8.6%	0.0%
Jamaica	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Japan	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	91.6%	4.4%	4.0%	0.0%	81.9%	11.5%	6.6%	0.0%
Korea, Rep. of	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	99.5%	0.5%	0.0%	0.0%
Mexico	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Netherlands	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	93.4%	6.6%	0.0%	0.0%	86.3%	11.2%	2.4%	0.0%
Nigeria	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Pakistan	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Peru	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Philippines	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Poland	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Russia	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Saudi Arabia	97.8%	2.2%	0.0%	80.2%	19.8%	0.0%	79.1%	20.9%	0.0%	0.0%	77.3%	27.0%	0.0%	0.0%
South Africa	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%
Spain	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	96.5%	3.5%	0.0%	0.0%	90.5%	7.6%	1.9%	0.0%
Switzerland	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	96.6%	3.4%	0.0%	0.0%	87.2%	9.3%	3.5%	0.0%
Taiwan	100.0%	0.0%	0.0%	96.6%	3.4%	0.0%	85.9%	9.1%	5.0%	0.0%	82.4%	10.1%	7.5%	0.0%
Thailand	100.0%	0.0%	0.0%	100.0%	0.0%	0.0%	95.8%	4.2%	0.0%	0.0%	86.6%	9.0%	4.4%	0.0%
United Kingdom	96.8%	2.7%	0.5%	85.8%	11.1%	3.1%	83.5%	10.3%	5.8%	0.4%	81.2%	10.2%	7.2%	1.4%

Note: NA - not available. Figures may not add to 100% due to rounding.

<sup>1/</sup> West Germany through 1990.

**Table 22. Carrier Shares of International Telephone Service Revenues for Selected Markets**

(continued)

<i>Based on Billed Revenues for Continental U.S. Traffic</i>																
Country	1989				1990				1991				1992			
	AT&T	MCI	Sprint	Others	AT&T	MCI	Sprint	Others	AT&T	MCI	Sprint	Others	AT&T	MCI/WUI	Sprint	Others
Australia	76.1%	14.0%	8.2%	1.7%	70.6%	18.9%	9.6%	0.9%	70.2%	19.9%	9.1%	0.7%	67.2%	21.6%	10.2%	1.0%
Brazil	79.2%	14.6%	5.5%	0.6%	77.6%	16.6%	5.5%	0.2%	77.1%	17.2%	5.6%	0.1%	71.9%	20.8%	6.3%	1.0%
Canada	NA	NA	NA	NA	NA	NA	NA	NA	67.8%	19.9%	11.8%	0.4%	60.3%	22.7%	16.5%	0.5%
China	92.7%	1.3%	6.0%	0.0%	89.1%	2.9%	8.0%	0.0%	86.7%	9.6%	3.7%	0.0%	61.6%	30.3%	8.1%	0.0%
Colombia	85.9%	9.2%	3.2%	1.6%	80.9%	13.2%	5.4%	0.6%	79.7%	13.7%	5.8%	0.7%	78.8%	15.0%	4.8%	1.4%
Dominican Rep.	89.9%	7.6%	2.5%	0.0%	84.3%	11.4%	4.2%	0.0%	82.9%	11.4%	5.7%	0.0%	80.3%	13.1%	4.6%	2.0%
Egypt	83.0%	15.4%	0.0%	1.6%	76.4%	17.4%	5.3%	0.9%	74.3%	20.0%	5.0%	0.7%	76.8%	19.4%	3.3%	0.5%
El Salvador	99.9%	0.0%	0.0%	0.1%	92.7%	6.4%	0.7%	0.2%	86.0%	8.3%	5.7%	0.0%	82.6%	10.5%	6.6%	0.2%
France	76.2%	14.7%	6.6%	2.4%	72.0%	17.6%	7.8%	2.6%	70.6%	19.0%	8.6%	1.8%	68.4%	21.1%	8.8%	1.7%
Germany 1/	84.6%	9.8%	5.6%	0.0%	81.3%	12.5%	6.2%	0.0%	80.8%	13.2%	5.9%	0.0%	76.6%	16.5%	6.6%	0.3%
Greece	81.4%	13.0%	5.6%	0.0%	76.5%	18.3%	5.1%	0.1%	76.0%	19.5%	4.6%	0.0%	73.0%	22.3%	4.8%	0.0%
Guatemala	92.9%	4.4%	2.1%	0.6%	85.7%	9.8%	3.9%	0.6%	83.7%	10.6%	5.2%	0.5%	82.3%	11.3%	6.0%	0.3%
Hong Kong	73.8%	17.1%	8.1%	1.0%	68.0%	22.5%	8.6%	0.8%	66.1%	25.4%	7.9%	0.7%	60.7%	30.4%	8.0%	0.9%
India	83.0%	11.5%	4.1%	1.4%	83.3%	14.9%	1.4%	0.5%	76.9%	19.7%	3.2%	0.1%	66.2%	26.9%	6.5%	0.4%
Israel	80.6%	13.4%	6.0%	0.0%	76.4%	15.7%	8.0%	0.0%	76.7%	16.3%	7.0%	0.0%	70.9%	19.9%	9.3%	0.0%
Italy	83.2%	11.5%	5.3%	0.0%	79.2%	14.6%	6.3%	0.0%	78.1%	16.2%	5.7%	0.0%	74.5%	19.3%	6.2%	0.0%
Jamaica	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	93.5%	6.5%	0.0%	0.0%	86.4%	11.2%	2.4%	0.0%
Japan	78.5%	12.4%	9.1%	0.0%	73.0%	17.4%	9.6%	0.1%	71.5%	19.9%	8.4%	0.3%	67.5%	23.2%	8.6%	0.8%
Korea, Rep. of	88.0%	8.1%	3.9%	0.1%	81.7%	16.1%	2.1%	0.1%	74.0%	20.9%	4.8%	0.2%	66.3%	28.0%	5.4%	0.3%
Mexico	NA	NA	NA	NA	NA	NA	NA	NA	78.5%	12.7%	8.7%	0.1%	74.2%	17.0%	8.6%	0.1%
Netherlands	72.7%	18.8%	8.4%	0.1%	74.1%	18.5%	7.3%	0.1%	72.1%	19.9%	7.9%	0.1%	68.5%	21.9%	8.9%	0.6%
Nigeria	100.0%	0.0%	0.0%	0.0%	97.0%	0.3%	0.0%	0.0%	74.9%	24.8%	0.3%	0.0%	61.9%	27.6%	10.5%	0.0%
Pakistan	84.2%	10.0%	5.8%	0.0%	83.8%	11.9%	4.2%	0.1%	81.2%	15.7%	3.0%	0.2%	79.4%	16.7%	3.6%	0.3%
Peru	87.6%	8.8%	2.4%	1.2%	79.5%	15.0%	4.5%	1.0%	77.5%	16.9%	4.8%	0.8%	78.8%	16.3%	4.0%	0.8%
Philippines	100.0%	0.0%	0.0%	0.0%	98.2%	0.7%	0.0%	1.1%	84.3%	10.8%	5.0%	0.0%	76.5%	18.6%	4.9%	0.0%
Poland	96.7%	3.3%	0.0%	0.0%	94.7%	5.2%	0.0%	0.1%	90.4%	7.4%	2.2%	0.0%	78.8%	14.8%	6.4%	0.0%
Russia	100.0%	0.0%	0.0%	0.0%	96.1%	3.3%	0.0%	0.6%	91.1%	8.9%	0.0%	0.0%	84.5%	9.1%	0.2%	6.2%
Saudi Arabia	82.0%	18.0%	0.0%	0.0%	82.5%	17.5%	0.0%	0.0%	72.9%	14.2%	0.1%	12.9%	68.9%	24.3%	6.7%	0.0%
South Africa	83.0%	17.0%	0.0%	0.0%	79.9%	19.9%	0.0%	0.2%	74.7%	21.4%	3.9%	0.0%	69.9%	22.0%	8.1%	0.0%
Spain	82.9%	11.9%	5.2%	0.0%	77.8%	16.0%	6.2%	0.0%	75.8%	18.1%	6.1%	0.0%	72.0%	20.5%	7.4%	0.0%
Switzerland	76.4%	14.3%	9.3%	0.0%	74.3%	17.9%	7.6%	0.2%	71.3%	19.0%	8.0%	1.6%	67.4%	21.5%	8.8%	2.2%
Taiwan	72.7%	17.0%	9.3%	0.9%	62.4%	27.9%	9.5%	0.2%	57.8%	35.1%	6.9%	0.2%	52.6%	40.6%	6.5%	0.3%
Thailand	78.4%	13.8%	7.8%	0.0%	68.2%	24.0%	7.3%	0.5%	62.6%	31.7%	5.8%	0.0%	55.9%	38.6%	5.5%	0.0%
United Kingdom	76.5%	14.8%	7.2%	1.5%	73.2%	17.0%	9.0%	0.8%	70.3%	19.8%	9.1%	0.7%	68.7%	20.8%	9.5%	1.0%

*Based on Settlement Receipts for Foreign Traffic to the Continental U.S.*

Country	1989				1990				1991				1992			
	AT&T	MCI	Sprint	Others	AT&T	MCI	Sprint	Others	AT&T	MCI	Sprint	Others	AT&T	MCI/WUI	Sprint	Others
Australia	71.6%	16.2%	11.6%	0.7%	69.5%	18.6%	10.6%	1.3%	68.3%	19.5%	10.6%	1.6%	65.5%	21.2%	11.6%	1.7%
Brazil	82.5%	16.7%	0.8%	0.0%	73.4%	18.7%	7.8%	0.0%	73.6%	21.3%	5.1%	0.0%	71.9%	20.8%	6.3%	1.0%
Canada	NA	NA	NA	NA	NA	NA	NA	NA	74.4%	15.6%	10.0%	0.0%	76.8%	17.0%	6.2%	0.0%
China	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	98.5%	0.8%	0.6%	0.1%	71.4%	22.4%	6.2%	0.0%
Colombia	85.1%	11.7%	1.4%	1.8%	84.1%	9.5%	5.7%	0.7%	69.2%	21.6%	8.3%	0.9%	81.5%	10.6%	5.1%	2.8%
Dominican Rep.	86.1%	11.7%	2.2%	0.0%	81.6%	14.4%	4.0%	0.0%	78.3%	16.1%	5.6%	0.0%	77.5%	12.7%	5.9%	3.9%
Egypt	77.9%	21.2%	0.0%	0.9%	68.5%	23.7%	0.0%	7.8%	63.1%	32.6%	0.0%	4.4%	61.0%	34.3%	0.3%	4.3%
El Salvador	100.0%	0.0%	0.0%	0.0%	79.9%	18.7%	1.4%	0.0%	83.3%	8.0%	8.6%	0.0%	89.9%	5.5%	4.6%	0.0%
France	68.1%	15.6%	10.5%	5.8%	64.4%	21.3%	8.1%	6.2%	67.2%	19.9%	9.2%	3.7%	66.2%	22.1%	8.5%	3.2%
Germany 1/	79.9%	14.3%	5.8%	0.0%	67.3%	20.3%	12.4%	0.0%	57.4%	32.7%	9.9%	0.0%	54.0%	31.1%	14.9%	0.0%
Greece	78.2%	17.2%	4.6%	0.0%	78.0%	16.0%	5.9%	0.1%	76.8%	14.7%	8.5%	0.0%	76.9%	19.3%	3.8%	0.0%
Guatemala	88.8%	6.2%	4.9%	0.0%	82.5%	14.5%	2.3%	0.7%	72.0%	18.9%	6.6%	2.5%	70.6%	18.9%	9.2%	1.3%
Hong Kong	69.1%	19.7%	9.8%	1.4%	67.0%	21.5%	10.2%	1.4%	63.0%	26.3%	9.3%	1.4%	60.8%	29.3%	8.7%	1.2%
India	94.9%	5.1%	0.0%	0.0%	90.3%	9.6%	0.0%	0.1%	87.6%	11.6%	0.8%	0.0%	63.7%	29.3%	7.0%	0.0%
Israel	86.8%	9.8%	3.4%	0.0%	75.5%	17.2%	7.3%	0.0%	78.1%	14.5%	7.4%	0.0%	71.0%	19.6%	9.3%	0.0%
Italy	72.0%	17.5%	10.4%	0.0%	65.0%	17.8%	17.2%	0.0%	68.3%	19.0%	12.7%	0.0%	72.4%	23.9%	3.7%	0.0%
Jamaica	100.0%	0.0%	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	98.5%	1.5%	0.0%	0.0%	92.5%	7.5%	0.0%	0.0%
Japan	77.2%	13.8%	9.0%	0.0%	76.4%	10.6%	13.0%	0.0%	68.8%	18.8%	12.4%	0.0%	67.7%	23.4%	8.8%	0.1%
Korea, Rep. of	87.3%	10.4%	2.3%	0.0%	77.5%	14.8%	7.1%	0.7%	67.8%	23.4%	7.9%	0.9%	72.4%	22.1%	5.2%	0.3%
Mexico	NA	NA	NA	NA	NA	NA	NA	NA	81.9%	10.5%	7.6%	0.0%	74.7%	13.8%	11.5%	0.0%
Netherlands	80.4%	14.9%	4.7%	0.0%	76.9%	17.0%	6.1%	0.0%	64.3%	24.0%	11.7%	0.0%	60.3%	29.3%	10.4%	0.0%
Nigeria	100.0%	0.0%	0.0%	0.0%	96.2%	3.8%	0.0%	0.0%	58.2%	41.8%	0.0%	0.0%	67.4%	25.0%	7.5%	0.0%
Pakistan	99.4%	0.6%	0.0%	0.0%	96.1%	3.9%	0.0%	0.0%	83.2%	16.8%	0.0%	0.0%	69.4%	30.6%	0.0%	0.0%
Peru	82.3%	14.3%	0.0%	3.4%	72.4%	23.9%	0.0%	3.7%	79.2%	16.1%	3.3%	1.4%	69.4%	20.1%	7.6%	3.0%
Philippines	100.0%	0.0%	0.0%	0.0%	86.1%	0.0%	1.0%	12.9%	95.3%	1.8%	2.9%	0.0%	77.1%	17.7%	4.6%	0.5%
Poland	100.0%	0.0%	0.0%	0.0%	99.9%	0.0%	0.0%	0.1%	92.8%	4.2%	2.9%	0.0%	62.2%	37.8%	0.0%	0.0%
Russia	100.0%	0.0%	0.0%	0.0%	99.9%	0.0%	0.0%	0.1%	100.0%	0.0%	0.0%	0.0%	99.2%	0.0%	0.0%	0.8%
Saudi Arabia	85.0%	15.0%	0.0%	0.0%	73.5%	26.5%	0.0%	0.0%	30.9%	69.1%	0.0%	0.0%	68.7%	25.2%	6.0%	0.0%
South Africa	100.0%	0.0%	0.0%	0.0%	99.8%	0.0%	0.0%	0.2%	93.3%	6.7%	0.0%	0.0%	68.2%	22.8%	9.0%	0.0%
Spain	91.4%	6.8%	1.8%	0.0%	85.8%	11.4%	2.8%	0.0%	77.3%	17.8%	4.9%	0.0%	65.7%	23.8%	10.6%	0.0%
Switzerland	73.8%	18.4%	7.8%	0.0%	71.7%	22.4%	6.0%	0.0%	67.6%	20.5%	9.8%	2.1%	59.6%	24.9%	10.0%	5.6%
Taiwan	75.5%	14.1%	10.4%	0.0%	69.2%	19.5%	11.3%	0.0%	60.1%	30.2%	9.7%	0.0%	54.2%	37.6%	8.2%	0.0%
Thailand	78.2%	11.9%	9.9%	0.0%	81.4%	7.8%	8.7%	2.1%	68.5%	22.8%	8.7%	0.0%	55.4%	38.4%	6.2%	0.0%
United Kingdom	73.2%	15.8%	8.2%	2.7%	65.5%	20.4%	11.6%	2.4%	66.5%	21.3%	11.3%	0.9%	65.0%	21.7%	11.2%	2.1%

Note: NA - not available. Figures may not add to 100% due to rounding.  
1/ West Germany through 1990.

**Table 22. Carrier Shares of International Telephone Service Revenues for Selected Markets**

(continued)

<i>Based on Billed Revenues for Continental U.S. Traffic</i>																
Country	1993				1994				1995				1996			
	AT&T	MCI/WUI	Sprint	Others	AT&T	MCI/WUI	Sprint	Others	AT&T	MCI/WUI	Sprint	Others	AT&T	MCI/WUI	Sprint	Others
Australia	64.6%	21.8%	12.2%	1.3%	64.2%	20.7%	13.4%	1.7%	55.4%	21.2%	14.1%	9.3%	59.2%	22.1%	11.3%	7.4%
Brazil	65.2%	25.8%	8.8%	0.1%	65.3%	22.6%	10.0%	2.1%	61.6%	24.6%	8.0%	5.9%	57.3%	32.1%	9.4%	1.3%
Canada	57.8%	25.4%	15.8%	1.0%	60.0%	26.5%	11.5%	2.0%	60.3%	26.6%	10.0%	3.1%	61.4%	24.0%	12.4%	2.3%
China	48.3%	38.5%	13.2%	0.0%	49.9%	34.2%	15.9%	0.0%	49.3%	37.0%	10.9%	2.8%	56.2%	27.0%	11.1%	5.6%
Colombia	70.1%	21.1%	7.1%	1.7%	67.7%	22.0%	7.8%	2.5%	56.5%	34.1%	6.2%	3.2%	56.4%	23.2%	7.9%	12.6%
Dominican Rep.	69.9%	20.3%	7.2%	2.6%	80.3%	13.1%	4.6%	2.0%	51.8%	36.6%	4.8%	6.8%	44.4%	28.7%	5.6%	21.2%
Egypt	69.7%	23.3%	6.4%	0.7%	65.4%	25.4%	8.0%	1.2%	61.7%	27.1%	8.6%	2.6%	59.0%	20.5%	12.6%	7.9%
El Salvador	78.9%	15.4%	5.6%	0.0%	76.2%	16.7%	7.1%	0.0%	69.6%	24.1%	6.3%	0.0%	68.2%	23.0%	8.8%	0.0%
France	65.4%	22.6%	10.0%	2.0%	61.2%	21.7%	11.7%	5.4%	58.0%	27.6%	10.7%	3.7%	62.0%	21.4%	10.8%	5.7%
Germany 1/	72.4%	19.2%	8.5%	0.0%	70.8%	19.2%	9.9%	0.1%	65.2%	23.1%	10.0%	1.7%	69.1%	21.5%	7.7%	1.7%
Greece	66.8%	27.9%	5.4%	0.0%	68.1%	24.9%	7.0%	0.0%	67.1%	25.6%	6.6%	0.8%	66.7%	22.5%	7.8%	3.0%
Guatemala	76.7%	17.0%	5.7%	0.5%	72.8%	18.4%	7.8%	1.0%	67.5%	23.6%	7.2%	1.8%	63.7%	20.0%	12.6%	3.7%
Hong Kong	53.2%	33.8%	11.2%	1.8%	52.0%	34.1%	11.9%	2.0%	40.4%	36.7%	19.5%	3.3%	34.0%	37.1%	27.0%	1.9%
India	51.9%	38.4%	9.0%	0.8%	54.1%	33.9%	11.0%	1.0%	47.3%	44.8%	6.8%	1.2%	49.0%	38.8%	10.4%	1.8%
Israel	57.4%	27.0%	15.0%	0.6%	57.7%	25.7%	14.3%	2.3%	55.1%	29.6%	12.6%	2.7%	62.2%	22.6%	10.2%	5.0%
Italy	71.0%	22.0%	6.9%	0.0%	70.6%	21.2%	8.1%	0.1%	67.1%	20.1%	9.9%	2.9%	70.9%	16.0%	10.9%	2.2%
Jamaica	80.9%	13.6%	5.5%	0.0%	78.6%	16.1%	5.4%	0.0%	69.3%	24.7%	6.0%	0.0%	56.1%	31.7%	12.2%	0.0%
Japan	61.0%	26.9%	10.9%	1.3%	62.8%	23.1%	12.6%	1.4%	54.6%	31.8%	10.0%	3.6%	56.2%	28.7%	11.1%	4.0%
Korea, Rep. of	56.0%	34.5%	8.9%	0.7%	58.8%	29.6%	10.7%	0.9%	56.8%	30.2%	10.4%	2.5%	57.1%	28.1%	11.3%	3.4%
Mexico	70.8%	20.3%	8.8%	0.2%	69.0%	21.4%	8.3%	1.3%	67.2%	22.5%	8.0%	2.5%	68.7%	20.2%	8.7%	2.4%
Netherlands	67.5%	22.9%	9.5%	0.0%	62.5%	21.7%	13.3%	2.6%	57.0%	22.1%	13.1%	7.9%	61.6%	18.5%	12.1%	7.7%
Nigeria	56.9%	32.6%	10.5%	0.0%	59.1%	28.6%	12.3%	0.0%	51.1%	38.4%	10.5%	0.0%	48.5%	30.2%	21.3%	0.1%
Pakistan	66.8%	28.6%	4.6%	0.0%	67.1%	25.2%	7.6%	0.1%	60.4%	32.8%	6.7%	0.0%	55.5%	36.4%	7.2%	0.8%
Peru	69.6%	24.4%	5.1%	0.9%	66.9%	25.0%	6.3%	1.8%	63.7%	28.5%	5.5%	2.4%	62.8%	29.0%	6.7%	1.5%
Philippines	64.8%	29.7%	5.6%	0.0%	65.2%	27.1%	7.5%	0.2%	62.8%	29.2%	7.2%	0.8%	64.3%	27.3%	7.8%	0.7%
Poland	73.6%	17.8%	8.5%	0.0%	71.4%	16.8%	11.8%	0.0%	68.8%	20.3%	10.9%	0.0%	68.5%	21.4%	8.1%	1.9%
Russia	60.5%	20.0%	6.5%	13.0%	59.8%	22.8%	12.4%	5.0%	57.8%	28.1%	11.1%	3.0%	53.4%	22.3%	16.1%	8.2%
Saudi Arabia	63.9%	28.9%	7.2%	0.0%	61.6%	29.8%	8.6%	0.0%	59.0%	31.2%	9.5%	0.3%	59.3%	25.4%	15.2%	0.1%
South Africa	56.3%	33.0%	10.6%	0.0%	52.2%	27.8%	20.0%	0.0%	45.2%	39.5%	15.3%	0.1%	53.7%	24.9%	19.9%	1.6%
Spain	63.7%	28.6%	7.6%	0.0%	66.5%	22.1%	9.7%	1.8%	63.9%	20.6%	10.7%	4.8%	67.3%	16.4%	10.2%	6.2%
Switzerland	65.2%	21.0%	10.9%	2.9%	63.3%	21.9%	11.5%	3.2%	59.3%	23.4%	13.1%	4.2%	61.3%	16.9%	12.5%	9.2%
Taiwan	39.9%	46.0%	13.2%	0.3%	43.3%	40.3%	15.6%	0.8%	41.5%	45.0%	11.4%	2.1%	44.6%	37.2%	14.2%	3.9%
Thailand	45.1%	48.9%	6.0%	0.0%	47.4%	43.1%	9.6%	0.0%	43.0%	47.1%	9.4%	0.5%	49.4%	35.6%	14.8%	0.1%
United Kingdom	66.3%	21.7%	10.9%	1.2%	66.3%	22.3%	10.2%	1.2%	63.2%	23.8%	9.6%	3.4%	68.2%	15.8%	9.9%	6.1%

*Based on Settlement Receipts for Foreign Traffic to the Continental U.S.*

Country	1993				1994				1995				1996			
	AT&T	MCI/WUI	Sprint	Others	AT&T	MCI/WUI	Sprint	Others	AT&T	MCI/WUI	Sprint	Others	AT&T	MCI/WUI	Sprint	Others
Australia	62.7%	24.4%	11.4%	1.6%	59.0%	23.9%	11.6%	5.5%	52.5%	23.1%	14.9%	9.5%	43.9%	19.3%	20.3%	16.5%
Brazil	77.0%	17.6%	5.4%	0.0%	66.7%	24.8%	7.7%	0.8%	62.6%	22.1%	9.3%	6.1%	58.0%	21.7%	10.6%	9.7%
Canada	68.9%	18.6%	9.6%	2.9%	59.6%	24.3%	9.6%	6.5%	62.3%	25.8%	9.0%	2.9%	52.8%	23.7%	19.6%	3.9%
China	60.1%	32.3%	7.6%	0.0%	56.0%	33.2%	10.8%	0.0%	49.1%	36.8%	12.2%	1.8%	49.7%	35.1%	10.0%	5.2%
Colombia	70.3%	21.6%	6.6%	1.5%	65.3%	25.2%	7.7%	1.8%	57.5%	30.2%	6.1%	6.2%	42.7%	35.4%	10.1%	11.8%
Dominican Rep.	80.6%	11.1%	4.2%	4.0%	69.2%	22.9%	6.0%	1.9%	67.5%	23.7%	5.6%	3.2%	44.4%	37.8%	4.6%	13.2%
Egypt	74.7%	20.6%	3.9%	0.8%	62.9%	29.6%	6.2%	1.3%	49.3%	31.6%	13.1%	6.0%	42.2%	28.7%	17.1%	12.0%
El Salvador	90.0%	5.4%	4.6%	0.0%	87.8%	7.2%	5.0%	0.0%	75.1%	17.2%	7.8%	0.0%	67.3%	27.6%	5.0%	0.0%
France	63.4%	20.6%	12.4%	3.7%	55.5%	26.6%	12.7%	5.2%	51.9%	25.8%	13.5%	8.7%	45.3%	32.5%	14.9%	7.4%
Germany 1/	66.9%	22.0%	11.1%	0.0%	65.6%	24.5%	9.9%	0.0%	56.4%	28.5%	13.1%	2.0%	49.8%	32.6%	11.5%	6.2%
Greece	60.4%	34.2%	5.4%	0.0%	49.3%	49.0%	1.7%	0.0%	61.7%	26.9%	11.4%	0.0%	59.9%	33.3%	6.8%	0.0%
Guatemala	64.8%	24.2%	9.3%	1.6%	51.7%	33.3%	11.3%	3.6%	37.9%	37.9%	12.5%	11.7%	43.0%	37.8%	3.5%	15.6%
Hong Kong	51.8%	36.2%	9.7%	2.2%	44.4%	38.8%	12.5%	4.3%	38.8%	37.0%	15.9%	8.2%	21.5%	34.5%	40.9%	3.1%
India	54.4%	39.0%	6.6%	0.0%	52.7%	36.6%	10.3%	0.4%	45.5%	46.5%	6.6%	1.4%	44.2%	44.6%	9.4%	1.8%
Israel	55.8%	29.5%	14.4%	0.3%	59.0%	24.5%	16.5%	0.0%	53.5%	25.2%	14.9%	6.4%	54.1%	27.3%	13.7%	4.8%
Italy	64.2%	22.8%	13.0%	0.0%	69.8%	21.8%	8.4%	0.0%	62.0%	22.5%	12.6%	2.8%	52.7%	23.5%	18.3%	5.4%
Jamaica	78.6%	17.7%	3.7%	0.0%	70.4%	21.2%	8.4%	0.0%	73.9%	18.9%	7.2%	0.0%	58.2%	35.7%	6.2%	0.0%
Japan	64.7%	23.9%	10.3%	1.1%	59.4%	26.1%	12.0%	2.5%	54.1%	28.3%	12.1%	5.5%	44.3%	35.3%	12.6%	7.8%
Korea, Rep. of	61.6%	30.3%	7.6%	0.4%	57.4%	31.2%	10.1%	1.3%	56.0%	30.8%	10.0%	3.2%	52.9%	30.2%	13.1%	3.8%
Mexico	71.7%	18.1%	10.1%	0.0%	70.9%	19.6%	8.5%	1.1%	62.7%	26.3%	7.7%	3.4%	61.4%	24.6%	10.1%	3.9%
Netherlands	68.1%	22.8%	9.0%	0.0%	63.7%	23.1%	11.2%	2.1%	58.8%	25.8%	15.3%	0.1%	55.7%	23.4%	13.9%	7.0%
Nigeria	65.7%	26.0%	8.3%	0.0%	51.3%	36.4%	12.3%	0.0%	55.4%	36.8%	7.8%	0.0%	48.0%	41.3%	10.7%	0.0%
Pakistan	69.9%	25.6%	4.6%	0.0%	70.0%	22.6%	7.4%	0.0%	64.1%	27.1%	8.8%	0.0%	41.5%	52.1%	6.4%	0.0%
Peru	69.0%	19.0%	8.8%	3.1%	63.1%	23.8%	8.9%	4.2%	58.8%	28.3%	8.0%	4.9%	53.6%	34.0%	8.9%	3.5%
Philippines	59.4%	35.5%	4.7%	0.5%	56.3%	36.2%	6.6%	0.9%	60.7%	30.4%	8.1%	0.8%	63.1%	28.8%	7.4%	0.8%
Poland	78.0%	15.1%	6.9%	0.0%	60.3%	32.9%	6.7%	0.1%	58.6%	30.3%	11.1%	0.0%	69.5%	21.1%	9.4%	0.0%
Russia	79.4%	13.5%	5.2%	1.8%	45.0%	43.4%	9.3%	2.3%	53.0%	27.5%	15.2%	4.4%	50.4%	29.7%	14.9%	5.0%
Saudi Arabia	72.0%	20.8%	7.2%	0.0%	60.3%	32.7%	7.0%	0.0%	56.7%	37.0%	6.3%	0.0%	52.4%	37.5%	10.1%	0.0%
South Africa	62.0%	28.1%	9.9%	0.0%	54.7%	33.8%	11.5%	0.0%	43.9%	38.3%	17.8%	0.0%	38.4%	46.2%	15.4%	0.0%
Spain	65.3%	25.1%	9.6%	0.0%	59.8%	29.8%	8.0%	2.4%	55.6%	30.1%	11.1%	3.2%	55.0%	26.8%	11.9%	6.3%
Switzerland	65.7%	24.1%	10.3%	0.0%	92.3%	7.7%	0.0%	0.0%	46.3%	29.6%	14.2%	9.9%	39.8%	26.7%	14.8%	18.7%
Taiwan	45.3%	46.0%	8.7%	0.0%	40.6%	43.6%	15.8%	0.0%	41.5%	40.9%	13.9%	3.6%	41.5%	38.2%	14.5%	5.8%
Thailand	43.2%	51.3%	5.5%	0.0%	44.7%	48.1%	7.1%	0.1%	42.3%	47.9%	9.8%	0.0%	38.3%	54.9%	6.8%	0.0%
United Kingdom	61.8%	24.8%	11.4%	2.0%	56.5%	29.0%	11.2%	3.3%	49.4%	26.5%	12.0%	12.0%	50.3%	23.1%	13.0%	13.7%

Note: NA - not available. Figures may not add to 100% due to rounding.  
1/ West Germany through 1990.

**Table 22. Carrier Shares of International Telephone Service Revenues for Selected Markets**

(continued)

<i>Based on Billed Revenues for Continental U.S. Traffic</i>				
Country	1997			
	AT&T	MCI/WUI	Sprint	Others
Australia	26.0%	35.9%	15.6%	22.5%
Brazil	57.0%	19.6%	12.8%	10.6%
Canada	58.2%	29.1%	9.3%	3.4%
China	51.6%	25.7%	8.6%	14.0%
Colombia	55.1%	21.5%	10.2%	13.2%
Dominican Rep.	27.3%	29.6%	6.4%	36.7%
Egypt	56.3%	17.8%	10.8%	15.2%
El Salvador	61.2%	25.9%	9.4%	3.5%
France	52.4%	35.1%	7.8%	4.6%
Germany 1/	64.1%	22.3%	7.8%	5.8%
Greece	61.7%	29.7%	5.5%	3.1%
Guatemala	62.5%	20.8%	10.6%	6.1%
Hong Kong	34.3%	38.6%	21.6%	5.4%
India	43.1%	44.4%	7.2%	5.2%
Israel	59.1%	26.2%	11.2%	3.5%
Italy	51.2%	36.3%	8.1%	4.4%
Jamaica	56.7%	24.7%	11.1%	7.5%
Japan	52.2%	32.1%	9.7%	6.1%
Korea, Rep. of	49.8%	32.1%	10.6%	7.4%
Mexico	59.2%	27.5%	8.3%	5.0%
Netherlands	61.2%	22.8%	9.0%	7.0%
Nigeria	43.2%	45.1%	8.0%	3.7%
Pakistan	66.7%	17.4%	7.6%	8.3%
Peru	57.1%	24.2%	9.6%	9.1%
Philippines	57.3%	27.0%	6.6%	9.0%
Poland	64.5%	26.2%	5.0%	4.3%
Russia	47.8%	20.0%	15.3%	16.9%
Saudi Arabia	50.3%	37.8%	10.3%	1.6%
South Africa	45.7%	36.8%	14.8%	2.7%
Spain	59.8%	22.2%	7.7%	10.3%
Switzerland	57.5%	21.5%	8.4%	12.6%
Taiwan	39.9%	37.5%	14.4%	8.2%
Thailand	50.6%	31.9%	13.7%	3.8%
United Kingdom	58.6%	28.1%	8.8%	4.5%

<i>Based on Settlement Receipts for Foreign Traffic to the Continental U.S.</i>				
Country	1997			
	AT&T	MCI/WU	Sprint	Others
Australia	15.2%	28.6%	19.6%	36.6%
Brazil	52.9%	16.7%	19.7%	10.7%
Canada	49.0%	22.2%	25.8%	3.0%
China	56.6%	26.3%	12.4%	4.6%
Colombia	47.9%	21.6%	9.6%	20.9%
Dominican Rep.	32.2%	45.1%	7.2%	15.5%
Egypt	43.9%	21.3%	13.9%	20.9%
El Salvador	65.5%	28.3%	6.2%	0.0%
France	41.0%	27.9%	15.7%	15.4%
Germany 1/	45.4%	30.8%	10.0%	13.8%
Greece	72.3%	18.8%	8.9%	0.0%
Guatemala	41.7%	32.9%	8.0%	17.4%
Hong Kong	27.3%	40.0%	28.6%	4.0%
India	46.9%	43.5%	8.5%	1.1%
Israel	45.3%	31.9%	18.5%	4.3%
Italy	53.1%	19.4%	14.3%	13.2%
Jamaica	52.4%	36.1%	10.0%	1.4%
Japan	39.2%	40.2%	13.7%	6.9%
Korea, Rep. of	46.7%	29.5%	16.5%	7.3%
Mexico	58.8%	28.9%	9.0%	3.4%
Netherlands	42.3%	18.9%	14.6%	24.2%
Nigeria	40.3%	44.7%	14.6%	0.3%
Pakistan	59.9%	32.4%	7.7%	0.0%
Peru	56.3%	28.8%	7.3%	7.7%
Philippines	60.2%	27.3%	10.5%	2.1%
Poland	72.6%	18.5%	8.9%	0.0%
Russia	54.5%	26.1%	14.9%	4.5%
Saudi Arabia	49.5%	39.2%	11.2%	0.0%
South Africa	36.8%	39.7%	23.6%	0.0%
Spain	45.4%	19.2%	13.3%	22.1%
Switzerland	38.5%	15.7%	19.3%	26.5%
Taiwan	36.0%	40.8%	17.5%	5.7%
Thailand	46.9%	36.9%	16.3%	0.0%
United Kingdom	49.8%	18.5%	12.2%	19.4%

Note: NA - not available. Figures may not add to 100% due to rounding.

1/ West Germany through 1990.



Table 23. Net Settlement Payments for Telephone Service to Selected Countries 1/

(Amounts shown in millions of dollars)

Country	1975	1976	1977	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	Trend growth <u>2/</u>
Australia <u>3/</u>	\$0.3	\$0.2	(\$0.5)	\$0.0	\$0.6	(\$0.9)	(\$1.4)	(\$1.7)	(\$1.3)	\$0.2	(\$3.9)	(\$1.7)	\$1.8	\$2.8	\$0.7	\$0.9	(\$1.4)	(\$0.8)	(\$6.2)	(\$19.0)	\$8.7	\$21.9	\$37.2	n.a.
Brazil	1.2	0.3	1.2	2.6	(10.6)	1.9	2.4	7.2	16.4	19.3	21.4	30.9	25.4	36.7	43.6	51.4	50.1	70.8	90.7	104.2	102.6	131.9	153.7	13.8%
Canada	NA	NA	NA	2.0	(0.2)	(3.7)	(1.1)	19.0	31.4	22.4	8.1	1.3	(19.3)	(0.3)	4.7	36.2	112.8	120.6	130.3	136.6	125.3	99.7	72.5	-13.8%
China	0.1	0.1	0.2	0.3	1.5	1.5	1.6	2.0	2.4	3.1	3.6	5.3	11.5	19.1	26.3	30.9	45.7	62.7	77.4	151.9	231.1	262.9	229.7	31.3%
Colombia	2.2	2.6	3.3	6.5	12.3	11.6	17.0	25.0	39.9	46.4	37.3	47.7	57.8	63.3	70.9	77.6	88.4	95.8	111.7	122.9	131.9	139.2	113.0	1.5%
Dominican Rep.	1.6	3.0	3.0	5.2	8.2	10.7	10.9	13.1	32.2	21.6	23.9	44.7	48.0	61.9	75.3	80.8	114.2	125.8	119.2	125.0	125.5	110.8	83.4	-8.0%
Egypt	0.2	0.4	0.5	0.7	1.0	2.2	3.8	4.4	9.3	11.9	14.6	16.1	16.6	18.2	21.4	22.7	27.7	33.4	33.3	37.0	41.7	55.8	64.6	18.9%
El Salvador	0.5	0.3	1.2	2.6	3.3	5.9	7.1	10.9	12.6	16.7	17.7	22.2	26.7	33.0	42.6	52.8	60.3	64.0	65.0	69.6	77.1	74.9	67.4	1.5%
France	(5.2)	2.3	(3.5)	2.2	1.3	0.4	7.7	10.9	12.9	26.7	16.1	27.2	26.4	31.4	32.9	42.8	38.9	38.7	40.7	41.5	44.3	45.2	38.6	-0.2%
Germany <u>4/</u>	10.2	15.9	18.6	36.3	44.5	26.5	62.7	79.2	76.1	95.2	55.4	87.7	126.1	153.1	167.2	222.5	257.5	187.6	129.5	79.4	64.2	53.0	65.3	-16.3%
Greece	(1.6)	(1.6)	(0.6)	(1.7)	(1.2)	(23.0)	3.7	7.2	12.1	13.4	15.6	22.3	26.5	28.4	30.2	35.8	43.3	39.6	38.6	36.0	34.0	26.9	25.4	-10.7%
Guatemala	1.0	1.8	1.8	2.2	2.4	2.1	3.4	5.1	6.8	8.0	9.9	12.5	19.1	22.9	32.3	40.2	47.8	47.5	52.1	56.7	58.7	63.9	52.5	1.4%
Hong Kong	1.4	1.6	2.0	3.1	4.2	6.2	4.9	7.8	9.2	12.3	11.4	19.6	17.8	14.0	14.1	15.7	19.5	24.8	33.9	56.7	106.2	207.9	236.7	68.0%
India	0.4	1.1	1.5	2.0	3.2	4.6	5.2	5.4	9.6	15.2	15.7	14.9	7.9	8.1	13.8	20.0	27.6	31.9	58.1	109.3	202.9	298.0	404.3	62.9%
Israel	2.5	2.8	3.0	7.3	6.8	4.0	11.5	18.2	24.1	35.1	39.9	43.9	44.4	47.4	57.5	67.9	93.2	93.3	104.9	128.4	119.0	103.3	41.3	-18.8%
Italy	6.8	8.7	10.8	14.1	14.9	17.7	9.1	17.4	22.9	28.8	30.1	40.8	51.5	59.6	69.5	77.7	84.2	59.8	85.1	72.2	65.9	51.7	63.2	-8.9%
Jamaica	1.1	0.9	2.5	3.5	5.6	6.8	1.2	2.9	12.5	17.4	16.0	13.9	24.9	30.3	32.6	47.5	56.2	64.3	78.3	93.0	99.5	115.3	133.2	13.6%
Japan	2.9	2.9	3.4	9.6	20.5	29.5	29.1	38.0	46.6	59.4	52.9	62.4	78.4	91.4	78.5	72.5	45.3	38.5	52.0	76.7	119.2	169.3	213.0	43.5%
Korea, Rep. of	3.4	4.8	6.3	8.2	10.8	17.3	18.8	30.4	43.1	60.1	72.0	76.7	85.2	106.2	111.7	110.6	99.3	92.2	103.0	110.9	118.7	122.6	100.9	0.6%
Mexico	NA	NA	NA	60.1	82.7	84.5	159.0	191.7	201.4	218.4	222.1	247.1	312.6	410.9	533.9	573.5	613.2	676.9	720.0	818.9	871.7	875.0	703.3	0.2%
Netherlands	-0.2	-0.7	-1.9	1.4	1.0	-2.9	4.2	0.2	1.2	1.9	-0.3	-2.2	5.1	7.6	7.0	10.6	10.2	10.2	8.1	10.8	22.2	22.9	16.4	24.1%
Nigeria	0	-0.2	-0.1	0	-0.6	-0.4	-1.6	-0.1	-1.5	2.2	5.2	5.7	6.9	5.0	3.5	3.1	10.9	17.0	18.8	9.5	8.5	41.7	67.0	49.5%
Pakistan	0.3	0.3	0.4	0.4	0.7	1.2	3.6	4.5	9.1	14.4	12.9	19.0	28.2	32.0	40.1	43.0	58.3	63.8	69.7	88.0	107.3	127.6	117.7	15.2%
Peru	0.6	0.7	1.7	2.6	4.3	7.0	7.6	11.4	19.4	21.9	20.1	22.3	24.9	29.8	40.0	51.1	56.6	54.2	53.4	58.7	62.1	72.2	74.7	9.2%
Philippines	5.2	5.6	6.4	9.3	13.9	18.6	21.1	30.7	45.4	60.8	63.2	78.2	86.0	94.7	114.8	140.5	158.2	151.4	140.1	145.5	154.2	156.6	159.7	3.4%
Poland	0.3	0.3	0.3	0.3	0.3	0.7	1.6	1.4	3.8	9.8	15.8	19.3	27.7	32.2	36.2	46.4	44.9	32.4	31.8	42.1	52.4	57.9	44.0	10.2%
Russia	-0.5	-0.5	-0.5	0.1	0	0.3	1.1	1.4	1.0	1.8	1.8	2.1	2.8	3.7	3.5	6.5	16.0	39.3	20.8	39.0	60.6	67.2	45.1	23.3%
Saudi Arabia	0.3	1.5	2.8	3.7	10.1	9.5	17.9	(7.3)	6.4	15.0	7.2	11.6	9.7	9.8	11.2	39.0	114.2	30.6	37.7	50.2	66.9	77.6	71.3	18.6%
South Africa <u>5/</u>	0	-1	-1.9	-1.8	-4.9	-2.6	-3.1	-2.6	-2.4	-0.6	1.0	1.7	2.8	3.9	6.2	6.8	8.0	9.1	13.0	18.1	27.0	35.7	36.9	31.8%
Spain	1.4	1.7	1.9	2.9	1.8	1.2	3.5	6.7	9.2	11.5	11.6	16.2	18.8	24.1	23.0	30.3	41.1	48.0	54.9	55.7	52.9	36.6	21.2	-20.7%
Switzerland	1.1	1.9	2.0	5.2	2.0	9.5	9.3	7.9	10.5	11.2	6.4	10.0	10.4	11.4	10.5	8.2	13.9	13.4	15.6	17.9	19.1	22.7	23.5	11.1%
Taiwan	0.9	1.0	1.4	2.5	2.3	5.7	5.5	11.9	20.1	26.8	28.7	36.1	39.5	43.9	45.0	48.1	36.0	43.5	48.8	79.0	95.0	118.5	133.7	27.4%
Thailand	1.7	0.9	1.1	1.6	2.7	3.5	4.0	6.9	9.1	12.4	15.7	23.2	22.8	25.9	30.2	31.4	32.0	32.7	36.2	44.8	50.7	64.2	57.2	13.6%
United Kingdom	6.4	8.0	7.3	3.2	2.1	19.3	22.4	13.5	11.3	22.6	8.5	32.6	41.5	44.5	46.2	74.8	88.3	72.1	67.3	77.1	55.2	41.1	23.3	-24.1%
Sum of the above countries	46.5	67.6	75.6	198.2	247.5	276.3	453.7	580.7	762.9	943.3	877.7	1,111.3	1,316.4	1,606.9	1,877.0	2,219.8	2,612.4	2,585.1	2,733.9	3,144.4	3,582.3	3,971.7	3,790.9	9.3%
Four highest for year	28.6	38.2	43.1	120.1	162.6	159.8	273.2	339.7	369.5	434.5	412.7	489.7	609.9	764.9	927.6	1,047.1	1,143.1	1,141.7	1,119.8	1,252.9	1,459.9	1,643.8	1,574.0	9.6%
Ten highest for year	42.9	56.6	64.9	161.8	224.7	245.2	370.4	463.2	563.2	657.7	625.6	765.3	931.5	1,133.0	1,325.5	1,498.4	1,739.3	1,686.5	1,734.5	1,953.6	2,199.5	2,491.0	2,485.0	8.8%
Total for all countries	\$70.5	\$95.9	\$115.3	\$243.6	\$300.1	\$347.2	\$530.9	\$712.2	\$949.7	\$1,203.0	\$1,129.8	\$1,414.3	\$1,675.4	\$2,027.9	\$2,398.1	\$2,762.3	\$3,298.2	\$3,343.8	\$3,703.8	\$4,288.8	\$4,936.9	\$5,645.2	\$5,436.7	11.0%
Selected as percent of total	66.0%	70.5%	65.6%	81.4%	82.5%	79.6%	85.4%	81.5%	80.3%	78.4%	77.7%	78.6%	78.6%	79.2%	78.3%	80.4%	79.2%	77.3%	73.8%	73.3%	72.6%	70.4%	69.7%	
Four highest as percent of total	40.6%	39.8%	37.4%	49.3%	54.2%	46.0%	51.4%	47.7%	38.9%	36.1%	36.5%	34.6%	36.4%	37.7%	38.7%	37.9%	34.7%	34.1%	30.2%	29.2%	29.6%	29.1%	29.0%	
Ten highest as percent of total	60.9%	59.0%	56.3%	66.4%	74.9%	70.6%	69.8%	65.0%	59.3%	54.7%	55.4%	54.1%	55.6%	55.9%	55.3%	54.2%	52.7%	50.4%	46.8%	45.6%	44.6%	44.1%	45.7%	

1/ Net payout is the settlement payouts less the settlement receipts based on data in "Statistics of Communications Common Carriers." Prior to 1985, the data are for AT&T only. Beginning in 1991, the data include settlements arising from transiting traffic. See Appendix A for a list of other reporting changes over time.

2/ Estimated by log linear regression using data from 1993 through 1997.

3/ Australia data include Nauru Island through 1980.

4/ Data for Federal Republic of Germany (West Germany) through 1990.

5/ South Africa includes Southwest Africa (now Namibia) through 1984.

Table 24. Measures of the International Settlements Deficit  
(Amounts shown in millions of dollars)

	43.61 Settlements Data <u>1/</u>			BEA Estimate of International Sales and Purchases of Private Services <u>2/</u>										
	Receipts	Payments	Deficit	Receipts					Payments					Deficit
				Europe	South & Central America	Asia & Pacific	Other	All Countries	Europe	South & Central America	Asia & Pacific	Other	All Countries	
1980	\$912	\$1,277	\$365											
1981	992	1,553	561											
1982	1,168	1,901	733											
1983	1,298	2,270	972											
1984	1,296	2,497	1,201											
1985	1,471	2,623	1,152											
1986	1,606	3,076	1,470	\$653	\$356	\$388	\$430	\$1,827	\$946	\$920	\$732	\$655	\$3,253	\$1,426
1987	1,859	3,613	1,753	763	407	468	473	2,111	1,122	1,064	824	726	3,736	1,625
1988	2,051	4,189	2,137	822	400	519	455	2,196	1,410	1,283	1,035	848	4,576	2,380
1989	2,325	4,849	2,524	911	449	643	516	2,519	1,540	1,539	1,127	966	5,172	2,653
1990	2,515	5,389	2,873	973	531	687	544	2,735	1,616	1,783	1,245	939	5,583	2,848
1991	2,767	6,063	3,296	1,093	651	956	591	3,291	1,960	1,971	1,523	1,154	6,608	3,317
1992	2,892	6,229	3,336	1,007	569	776	533	2,885	1,660	2,028	1,293	1,071	6,052	3,167
1993	2,938	6,645	3,707	928	589	756	512	2,785	1,593	2,146	1,404	1,222	6,365	3,580
1994	3,003	7,294	4,291	924	669	756	516	2,865	1,603	2,361	1,684	1,280	6,928	4,063
1995	3,073	8,016	4,943	950	750	942	586	3,228	1,561	2,527	1,876	1,341	7,305	4,077
1996	2,829	8,484	5,655	876	855	968	571	3,270	1,378	2,981	2,445	1,500	8,304	5,034
1997	2,865	8,315	5,450	1,092	986	1,087	606	3,771	1,252	2,920	2,570	1,371	8,113	4,342

1/ The totals include settlement payments and settlement receipts for international telephone (Table 4), telex (Table 5), and telegraph (Table 6). Settlements associated with transiting traffic are first included for 1991.

2/ 1997 data from the *Survey of Current Business*, October 1998, Table 5.4, pages 104-105. Data for some prior years were revised.

Table 25. Telephone Service Accounting Rates for Selected Countries

	Peak Period Accounting Rates																				
	Year End Data																			Aug. 30	
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998		1999
Australia	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	1.5 SDR	1.2 SDR	1.2 SDR	1.2 SDR	1.2 SDR	0.8 SDR	0.68 SDR	0.6 SDR	0.55 SDR	0.4 SDR	0.4 SDR	0.308 SDR	0.308 SDR	0.22 SDR	0.22 SDR	
Brazil	\$3.00	\$3.00	\$3.00	\$3.00	\$2.50	\$2.50	\$2.50	\$2.50	\$2.50	\$2.50	\$2.50	\$1.60	\$1.50	\$1.40	\$1.27	\$1.14	\$1.03	\$0.85	\$0.65	\$0.60	
Canada <u>1/</u>	N/A	N/A	N/A	N/A	N/A	\$0.42	\$0.42	\$0.42	\$0.42	\$0.42	\$0.28	\$0.28	\$0.28	\$0.28	\$0.26	\$0.24	\$0.22	\$0.20	\$0.20	\$0.20	
China	N/A	N/A	N/A	N/A	N/A	9.0 GF	9.0 GF	9.0 GF	9.0 GF	8.0 GF	8.0 GF	7.5 GF	7.5 GF	6.5 GF	6.0 GF	5.5 GF	4.5 GF	3.8 GF	3.1 GF	0.85 SDR	
Colombia	\$2.20	\$2.10	\$2.10	\$2.10	\$2.00	\$2.00	\$2.00	\$1.90	\$1.85	\$1.85	\$1.75	\$1.60	\$1.55	\$1.50	\$1.40	\$1.30	\$1.25	\$1.00	\$0.80	\$0.75	
Dominican Republic <u>1/</u>	N/A	N/A	N/A	N/A	N/A	\$1.45	\$1.45	\$1.45	\$1.45	\$1.45	\$1.42	\$1.39	\$1.36	\$1.29	\$1.30	\$1.10	\$0.90	\$0.70	\$0.60	\$0.52	
Egypt	N/A	N/A	N/A	N/A	N/A	\$2.10	\$2.10	\$2.00	\$2.00	\$1.95	\$1.90	\$1.80	\$1.70	\$1.60	\$1.50	\$1.40	\$1.40	\$1.30	\$1.30	\$1.10	
El Salvador	N/A	N/A	N/A	N/A	N/A	\$1.55	\$1.55	\$1.50	\$1.50	\$1.50	\$1.50	\$1.40	\$1.30	\$1.25	\$1.20	\$1.10	\$0.88	\$0.77	\$0.62		
France <u>1/</u>	1.6 SDR	1.6 SDR	1.6 SDR	1.6 SDR	1.6 SDR	1.6 SDR	1.4 SDR	1.4 SDR	1.4 SDR	1.2 SDR	1.2 SDR	1.0 SDR	0.7 SDR	0.7 SDR	0.42 SDR	0.36 SDR	0.24 SDR	0.19 SDR	0.15 SDR	0.15 SDR	
Germany	1.6 SDR	1.6 SDR	1.3 SDR	1.2 SDR	1.2 SDR	1.2 SDR	1.2 SDR	1.2 SDR	1.2 SDR	1.2 SDR	1.2 SDR	1.0 SDR	0.8 SDR	0.6 SDR	0.34 SDR	0.26 SDR	0.16 SDR	0.15 SDR	0.15 SDR	0.15 SDR	
Greece	N/A	N/A	N/A	N/A	N/A	5.0 GF	5.0 GF	5.0 GF	5.0 GF	5.0 GF	5.0 GF	1.53 SDR	1.21 SDR	1.12 SDR	.95 SDR	.85 SDR	0.7 SDR	0.63 SDR	0.4 SDR	0.25 SDR	
Guatemala	N/A	N/A	N/A	N/A	N/A	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.40	\$1.30	\$1.20	\$1.18	\$1.00	\$0.90	\$0.77	\$0.68	
Hong Kong	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$2.60	\$2.50	\$2.50	\$2.50	\$2.35	\$2.20	\$1.90	\$1.60	\$1.20	\$1.00	\$1.00	.65 SDR	.58 SDR	.52 SDR	.1 SDR	
India	N/A	N/A	N/A	N/A	N/A	\$2.70	\$2.50	\$2.50	\$2.25	\$2.25	\$2.25	\$2.25	\$2.00	\$1.90	\$1.80	\$1.60	\$1.60	\$1.42	\$1.28	\$1.28	
Israel <u>1/</u>	\$3.00	\$3.00	\$2.50	\$2.40	\$2.40	\$2.40	\$2.40	\$2.40	\$2.40	\$2.40	\$2.40	\$2.40	\$2.28	\$2.16	\$2.16	\$1.90	\$1.18	\$0.70	\$0.59	\$0.30	
Italy	5.5 GF	5.0 GF	5.0 GF	5.0 GF	5.0 GF	5.0 GF	5.0 GF	5.0 GF	5.0 GF	5.0 GF	4.6 GF	4.38 GF	1.2 SDR	1.1 SDR	0.82 SDR	0.48 SDR	0.36 SDR	0.24 SDR	0.16 SDR	0.16 SDR	
Jamaica	N/A	N/A	N/A	N/A	N/A	\$1.75	\$1.75	\$1.75	\$1.75	\$1.75	\$1.65	\$1.60	\$1.55	\$1.50	\$1.40	\$1.40	\$1.30	\$1.25	\$1.25	\$1.15	
Japan <u>1/</u>	\$3.00	\$3.00	\$2.66	\$2.66	\$2.66	\$2.35	\$2.35	\$2.35	1.34 SDR	1.34 SDR	1.34 SDR	1.13 SDR	0.95 SDR	0.75 SDR	0.63 SDR	0.63 SDR	0.63 SDR	0.63 SDR	0.21 SDR	0.21 SDR	
Korea, Rep.	\$3.00	\$3.00	\$3.00	\$3.00	\$2.80	\$2.80	\$2.60	\$2.52	\$2.44	\$2.36	\$2.10	\$1.90	\$1.60	\$1.44	0.95 SDR	0.85 SDR	0.85 SDR	0.72 SDR	\$0.85	\$0.71	
Mexico <u>2/</u>	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$1.45	\$1.32	\$1.16	\$1.10	\$1.00	\$0.91	\$0.67	\$0.68	\$0.70	\$0.74	\$0.38	
Netherlands	1.6 SDR	1.6 SDR	1.6 SDR	1.2 SDR	1.2 SDR	1.2 SDR	1.2 SDR	1.2 SDR	1.2 SDR	1.1 SDR	1.1 SDR	0.9 SDR	0.5 SDR	0.5 SDR	0.4 SDR	0.25 SDR	0.25 SDR	0.2 SDR	0.14 SDR	0.1 SDR	
Nigeria	N/A	N/A	N/A	N/A	N/A	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.40	\$1.15
Pakistan	N/A	N/A	N/A	N/A	N/A	\$2.55	\$2.55	\$2.55	\$2.55	\$2.55	\$2.30	\$2.30	\$2.30	\$2.30	\$2.30	\$2.30	\$2.20	\$2.00	\$1.20	\$1.20	
Peru	N/A	N/A	N/A	N/A	N/A	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$1.50	\$1.40	\$1.30	\$1.30	\$1.23	\$1.00	\$0.85	\$0.66	
Philippines	\$2.70	\$2.70	\$2.70	\$2.70	\$2.50	\$2.30	\$2.30	\$2.15	\$2.00	\$1.98	\$1.92	\$1.85	\$1.68	\$1.68	\$1.34	\$1.23	\$1.00	\$0.82	\$0.72	\$0.57	
Poland	N/A	N/A	N/A	N/A	N/A	\$2.00	\$1.75	\$1.75	\$1.65	\$1.50	\$1.50	\$1.35	\$1.30	\$1.25	\$1.20	\$1.15	\$0.95	\$0.70	\$0.55	\$0.42	
Russia	N/A	N/A	N/A	N/A	N/A	\$9.00	\$9.00	\$9.00	\$9.00	\$3.00	\$3.00	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	
Saudia Arabia	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.20	\$2.20	\$2.20	\$2.20	\$2.20	\$2.20	1.5 SDR	1.25 SDR	1.0 SDR	
South Africa	N/A	N/A	N/A	N/A	N/A	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$1.80	\$1.80	\$1.50	\$1.20	\$1.20	\$1.00	\$1.00	\$0.80	\$0.70	
Spain <u>1/</u>	5.3 GF	5.3 GF	5.3 GF	5.3 GF	5.3 GF	5.3 GF	5.3 GF	5.3 GF	1.7 SDR	1.6 SDR	1.6 SDR	1.5 SDR	1.5 SDR	1.3 SDR	1.2 SDR	1.0 SDR	.44 SDR	.35 SDR	.2 SDR	.2 SDR	
Switzerland	5.5 GF	1.6 SDR	1.6 SDR	1.6 SDR	1.6 SDR	1.6 SDR	1.4 SDR	1.4 SDR	1.25 SDR	1.12 SDR	1.12 SDR	.808 SDR	.808 SDR	.61 SDR	.61 SDR	.35 SDR	.35 SDR	.25 SDR	.2 SDR	.2 SDR	
Taiwan	\$2.25	\$2.25	\$2.25	\$2.25	\$2.25	\$2.00	\$2.00	\$2.00	\$2.00	\$1.90	\$1.80	\$1.60	\$1.40	\$1.20	\$1.20	\$1.20	\$1.20	\$1.14	\$0.45	\$0.45	
Thailand	N/A	N/A	N/A	N/A	N/A	\$2.50	\$2.50	\$2.50	\$2.50	\$2.30	\$2.30	\$2.00	\$1.75	\$1.60	\$1.60	\$1.55	\$1.50	\$1.20	\$0.90	\$0.70	
United Kingdom <u>1/</u>	\$1.20	\$1.20	\$1.06	\$1.06	\$1.06	\$1.06	\$1.06	\$1.06	\$1.06	\$1.06	\$1.06	.68 SDR	0.54 SDR	0.44 SDR	0.33 SDR	0.25 SDR	0.25 SDR	0.15 SDR	0.15 SDR	0.15 SDR	

See notes at end of table.

Table 25. Telephone Service Accounting Rates for Selected Countries  
(Continued)

	Off-Peak Period Accounting Rates																			
	Year End Data																			Aug. 30
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Australia							0.6 SDR	0.6 SDR	0.6 SDR	0.6 SDR										
Brazil								\$1.50	\$1.50	\$1.20	\$1.20									
Canada							\$0.38	\$0.38	\$0.38	\$0.38	\$0.24	\$0.24	\$0.24	\$0.24	\$0.22	\$0.20	\$0.14	\$0.12	\$0.12	\$0.12
China																				
Colombia																				
Dominican Republic							\$0.80	\$0.80	\$0.80	\$0.80	\$0.80	\$0.60	\$0.60		\$0.60	\$0.70				
Egypt																				
El Salvador																				
France											1.0 SDR	0.8 SDR								
Germany																				
Greece																				
Guatemala																				
Hong Kong																				
India																				
Israel	\$2.25	\$2.25				\$2.10	\$2.10	\$1.90	\$1.90	\$1.90	\$1.90	\$1.90	\$1.63	\$1.40	\$1.40	\$1.23				
Italy									3.67GF	3.67GF	3.67GF	3.67GF		0.8 SDR	0.55 SDR					
Jamaica								\$0.74	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40						
Japan																				
Korea, Rep.																				
Mexico																				
Netherlands																				
Nigeria																				
Pakistan																	\$1.40	\$1.20		
Peru								\$1.50	\$1.35	\$1.20	\$1.20	\$1.20								
Philippines										\$1.50	\$1.50	\$1.50	\$1.25	\$1.25						
Poland																				
Russia						\$6.75	\$6.75	\$6.75	\$6.75	\$2.25	\$2.25									
Saudia Arabia																				
South Africa																				
Spain																				
Switzerland									1.2 SDR	1.2 SDR	1.2 SDR	1.0 SDR	1.0 SDR	0.8 SDR	0.7 SDR	0.66 SDR				
Taiwan																				
Thailand																				
United Kingdom				\$0.76	\$0.76	\$0.76	\$0.76	\$0.76	\$0.76	\$0.76	\$0.76	.48 SDR	.38 SDR	.35 SDR			.15 SDR	0.1 SDR	0.09 SDR	0.09 SDR

1/ Where more than one PTT connects with U.S. carriers, the table shows rates for the first carrier providing service. These include Korea Telecom in Korea, Kokusai Denshin Denwa in Japan, PLDT in the Philippines, CODETEL in the Dominican Republic, and British Telecom in the United Kingdom. Accounting rates may vary by time of day, or by volume of traffic.

2/ Accounting rates for service between Mexico and the United States vary by service classification and the originating or terminating locations. Each rate shown in the table represents a simple average for all accounting rates in effect for service between the United States and Mexico.

Table 26. Accounting Rates for Selected Countries in U.S. Dollars

	Peak Period Accounting Rates																				
	Year End Data																				Aug. 30
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	
Australia	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$1.65	\$1.47	\$1.70	\$1.61	\$1.58	\$1.14	\$0.97	\$0.83	\$0.76	\$0.59	\$0.59	\$0.45	\$0.42	\$0.30	\$0.30	
Brazil	\$3.00	\$3.00	\$3.00	\$3.00	\$2.50	\$2.50	\$2.50	\$2.50	\$2.50	\$2.50	\$2.50	\$1.60	\$1.50	\$1.40	\$1.27	\$1.14	\$1.03	\$0.85	\$0.65	\$0.60	
Canada	N/A	N/A	N/A	N/A	N/A	\$0.42	\$0.42	\$0.42	\$0.42	\$0.42	\$0.28	\$0.28	\$0.28	\$0.28	\$0.26	\$0.24	\$0.22	\$0.20	\$0.20	\$0.20	
China	N/A	N/A	N/A	N/A	N/A	\$3.23	\$3.60	\$4.17	\$3.96	\$3.43	\$3.72	\$3.48	\$3.37	\$2.93	\$2.91	\$2.67	\$2.13	\$1.69	\$1.40	\$1.16	
Colombia	\$2.20	\$2.10	\$2.10	\$2.10	\$2.00	\$2.00	\$2.00	\$1.90	\$1.85	\$1.85	\$1.75	\$1.60	\$1.55	\$1.50	\$1.40	\$1.30	\$1.25	\$1.00	\$0.80	\$0.75	
Dominican Republic	N/A	N/A	N/A	N/A	N/A	\$1.45	\$1.45	\$1.45	\$1.45	\$1.45	\$1.42	\$1.39	\$1.36	\$1.29	\$1.30	\$1.10	\$0.90	\$0.70	\$0.60	\$0.52	
Egypt	N/A	N/A	N/A	N/A	N/A	\$2.10	\$2.10	\$2.00	\$2.00	\$1.95	\$1.90	\$1.80	\$1.70	\$1.60	\$1.50	\$1.40	\$1.40	\$1.30	\$1.30	\$1.10	
El Salvador	N/A	N/A	N/A	N/A	N/A	\$1.55	\$1.55	\$1.50	\$1.50	\$1.50	\$1.50	\$1.40	\$1.30	\$1.25	\$1.20	\$1.20	\$1.10	\$0.88	\$0.77	\$0.62	
France	\$2.04	\$1.86	\$1.76	\$1.68	\$1.57	\$1.76	\$1.71	\$1.99	\$1.80	\$1.58	\$1.71	\$1.43	\$0.96	\$0.97	\$0.62	\$0.54	\$0.35	\$0.26	\$0.21	\$0.20	
Germany	\$2.04	\$1.86	\$1.43	\$1.26	\$1.18	\$1.32	\$1.47	\$1.70	\$1.61	\$1.58	\$1.71	\$1.43	\$1.10	\$0.83	\$0.51	\$0.39	\$0.23	\$0.20	\$0.21	\$0.20	
Greece	N/A	N/A	N/A	N/A	N/A	\$1.79	\$2.00	\$2.32	\$2.20	\$2.15	\$2.32	\$2.19	\$1.66	\$1.55	\$1.41	\$1.26	\$1.01	\$0.86	\$0.55	\$0.34	
Guatemala	N/A	N/A	N/A	N/A	N/A	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.40	\$1.30	\$1.20	\$1.18	\$1.00	\$0.90	\$0.77	\$0.68	
Hong Kong	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$2.60	\$2.50	\$2.50	\$2.50	\$2.35	\$2.20	\$1.90	\$1.60	\$1.20	\$1.00	\$1.00	\$0.94	\$0.79	\$0.72	\$0.14	
India	N/A	N/A	N/A	N/A	N/A	\$2.70	\$2.50	\$2.50	\$2.25	\$2.25	\$2.25	\$2.25	\$2.00	\$1.90	\$1.80	\$1.80	\$1.60	\$1.42	\$1.28	\$1.28	
Israel	\$3.00	\$3.00	\$2.50	\$2.40	\$2.40	\$2.40	\$2.40	\$2.40	\$2.40	\$2.40	\$2.40	\$2.40	\$2.28	\$2.16	\$2.16	\$1.90	\$1.18	\$0.70	\$0.59	\$0.30	
Italy	\$2.29	\$1.90	\$1.80	\$1.71	\$1.60	\$1.79	\$2.00	\$2.32	\$2.20	\$2.15	\$2.13	\$2.04	\$1.65	\$1.51	\$1.22	\$0.71	\$0.52	\$0.33	\$0.22	\$0.22	
Jamaica	\$2.29	\$1.90	\$1.80	\$1.71	\$1.60	\$1.79	\$2.00	\$2.32	\$2.20	\$2.15	\$2.14	\$1.60	\$1.55	\$1.50	\$1.40	\$1.40	\$1.30	\$1.25	\$1.25	\$1.15	
Japan	\$3.00	\$3.00	\$2.66	\$2.66	\$2.66	\$2.35	\$2.35	\$2.35	\$1.80	\$1.76	\$1.91	\$1.62	\$1.31	\$1.04	\$0.94	\$0.94	\$0.91	\$0.86	\$0.29	\$0.29	
Korea, Rep.	\$3.00	\$3.00	\$3.00	\$3.00	\$2.80	\$2.80	\$2.60	\$2.52	\$2.44	\$2.36	\$2.10	\$1.90	\$1.60	\$1.44	\$1.41	\$1.26	\$1.23	\$0.98	\$0.85	\$0.71	
Mexico	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$1.45	\$1.32	\$1.16	\$1.10	\$1.00	\$0.91	\$0.67	\$0.68	\$0.70	\$0.74	\$0.38	
Netherlands	\$2.04	\$1.86	\$1.76	\$1.26	\$1.18	\$1.32	\$1.47	\$1.70	\$1.61	\$1.45	\$1.56	\$1.29	\$0.69	\$0.69	\$0.59	\$0.37	\$0.36	\$0.27	\$0.19	\$0.14	
Nigeria	N/A	N/A	N/A	N/A	N/A	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.40	\$1.15	
Pakistan	N/A	N/A	N/A	N/A	N/A	\$2.55	\$2.55	\$2.55	\$2.55	\$2.55	\$2.30	\$2.30	\$2.30	\$2.30	\$2.30	\$2.30	\$2.20	\$2.00	\$1.20	\$1.20	
Peru	N/A	N/A	N/A	N/A	N/A	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$1.50	\$1.40	\$1.30	\$1.30	\$1.23	\$1.00	\$0.85	\$0.66	
Philippines	\$2.70	\$2.70	\$2.70	\$2.70	\$2.50	\$2.30	\$2.30	\$2.15	\$2.00	\$1.98	\$1.92	\$1.85	\$1.68	\$1.68	\$1.34	\$1.23	\$1.00	\$0.82	\$0.72	\$0.57	
Poland	N/A	N/A	N/A	N/A	N/A	\$2.00	\$1.75	\$1.75	\$1.65	\$1.50	\$1.50	\$1.35	\$1.30	\$1.25	\$1.20	\$1.15	\$0.95	\$0.70	\$0.55	\$0.42	
Russia	N/A	N/A	N/A	N/A	N/A	\$9.00	\$9.00	\$9.00	\$9.00	\$3.00	\$3.00	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	
Saudia Arabia	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.20	\$2.20	\$2.20	\$2.20	\$2.20	\$2.20	\$2.03	\$1.73	\$1.36	
South Africa	N/A	N/A	N/A	N/A	N/A	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$1.80	\$1.80	\$1.50	\$1.20	\$1.20	\$1.00	\$1.00	\$0.80	\$0.70	
Spain	\$2.21	\$2.01	\$1.91	\$1.81	\$1.70	\$1.90	\$2.12	\$2.46	\$2.29	\$2.10	\$2.28	\$2.15	\$2.06	\$1.80	\$1.78	\$1.44	\$0.64	\$0.48	\$0.26	\$0.27	
Switzerland	\$2.29	\$1.86	\$1.76	\$1.68	\$1.57	\$1.76	\$1.71	\$1.99	\$1.68	\$1.47	\$1.59	\$1.16	\$1.11	\$0.84	\$0.91	\$0.52	\$0.51	\$0.34	\$0.28	\$0.27	
Taiwan	\$2.25	\$2.25	\$2.25	\$2.25	\$2.25	\$2.00	\$2.00	\$2.00	\$2.00	\$1.90	\$1.80	\$1.60	\$1.40	\$1.20	\$1.20	\$1.20	\$1.20	\$1.14	\$0.45		
Thailand	N/A	N/A	N/A	N/A	N/A	\$2.50	\$2.50	\$2.50	\$2.50	\$2.30	\$2.30	\$2.00	\$1.75	\$1.60	\$1.60	\$1.55	\$1.50	\$1.20	\$0.90	\$0.70	
United Kingdom	\$1.20	\$1.20	\$1.06	\$1.06	\$1.06	\$1.06	\$1.06	\$1.06	\$1.06	\$1.06	\$1.06	\$0.97	\$0.74	\$0.61	\$0.49	\$0.37	\$0.36	\$0.20	\$0.21	\$0.21	
Fisher Ideal Index for Peak and Off-peak <sub>1</sub>	100.0	97.6	93.0	90.1	88.3	87.7	87.2	89.5	85.6	83.5	73.7	67.6	60.8	56.0	49.4	42.6	36.9	31.1	26.8	21.0	
change from prior year		-2.4%	-4.7%	-3.2%	-2.0%	-0.7%	-0.6%	2.7%	-4.4%	-2.4%	-11.8%	-8.2%	-10.1%	-7.9%	-11.7%	-13.9%	-13.4%	-15.6%	-14.1%	-21.3%	

See notes at end of table.

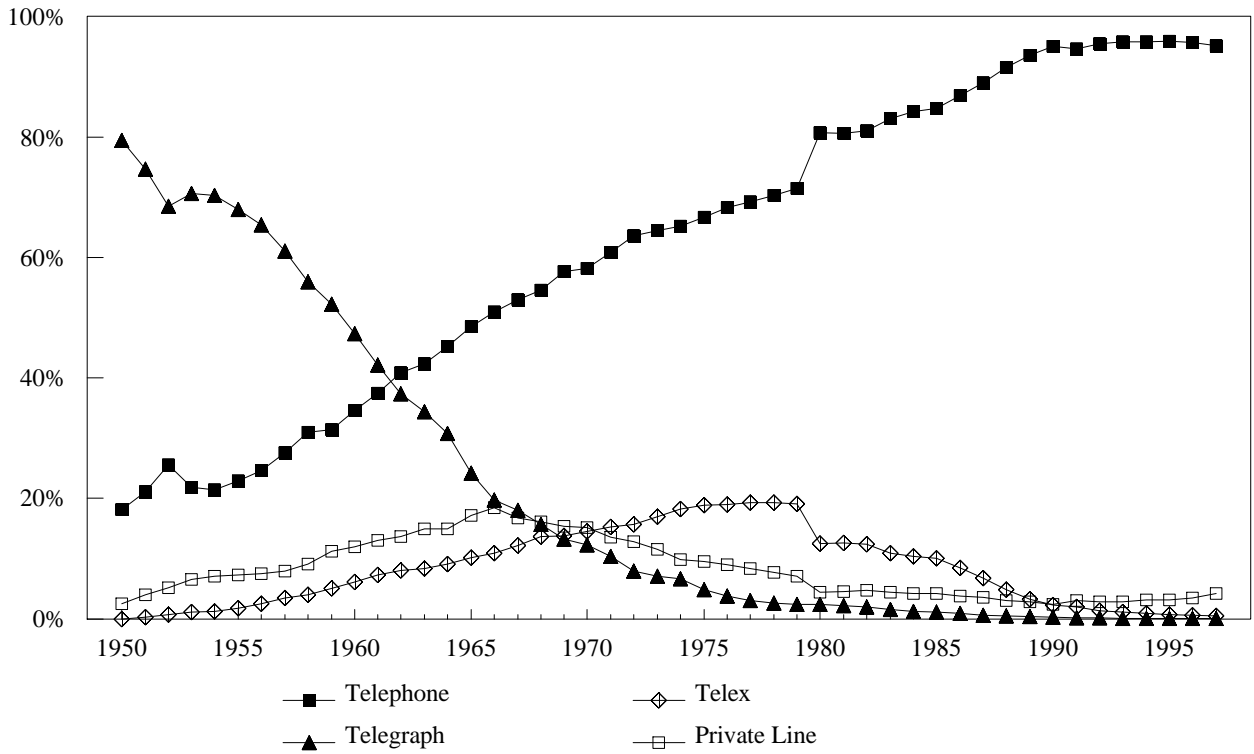
Table 26. Accounting Rates for Selected Countries in U.S. Dollars  
(Continued)

	Off-peak Period Account Rates <sup>2/</sup>																			
	Year End Data																			Aug. 30
	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999
Australia	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$1.65	\$0.74	\$0.85	\$0.81	\$0.79	\$1.14	\$0.97	\$0.83	\$0.76	\$0.59	\$0.59	\$0.45	\$0.42	\$0.30	\$0.30
Brazil	\$3.00	\$3.00	\$3.00	\$3.00	\$2.50	\$2.50	\$2.50	\$1.50	\$1.50	\$1.20	\$1.20	\$1.60	\$1.50	\$1.40	\$1.27	\$1.14	\$1.03	\$0.85	\$0.65	\$0.60
Canada	N/A	N/A	N/A	N/A	N/A	\$0.42	\$0.38	\$0.38	\$0.38	\$0.38	\$0.24	\$0.24	\$0.24	\$0.24	\$0.22	\$0.20	\$0.14	\$0.12	\$0.12	\$0.12
China	N/A	N/A	N/A	N/A	N/A	\$3.23	\$3.60	\$4.17	\$3.96	\$3.43	\$3.72	\$3.48	\$3.37	\$2.93	\$2.91	\$2.67	\$2.13	\$1.69	\$1.40	\$1.16
Colombia	\$2.20	\$2.10	\$2.10	\$2.10	\$2.00	\$2.00	\$2.00	\$1.90	\$1.85	\$1.85	\$1.75	\$1.60	\$1.55	\$1.50	\$1.40	\$1.30	\$1.25	\$1.00	\$0.80	\$0.75
Dominican Republic	N/A	N/A	N/A	N/A	N/A	\$1.45	\$0.80	\$0.80	\$0.80	\$0.80	\$0.80	\$0.60	\$0.60	\$1.29	\$0.60	\$0.70	\$0.90	\$0.70	\$0.60	\$0.52
Egypt	N/A	N/A	N/A	N/A	N/A	\$2.10	\$2.10	\$2.00	\$2.00	\$1.95	\$1.90	\$1.80	\$1.70	\$1.60	\$1.50	\$1.40	\$1.40	\$1.30	\$1.30	\$1.10
El Salvador	N/A	N/A	N/A	N/A	N/A	\$1.55	\$1.55	\$1.50	\$1.50	\$1.50	\$1.50	\$1.40	\$1.30	\$1.25	\$1.20	\$1.20	\$1.10	\$0.88	\$0.77	\$0.62
France	\$2.04	\$1.86	\$1.76	\$1.68	\$1.57	\$1.76	\$1.71	\$1.99	\$1.80	\$1.58	\$1.43	\$1.14	\$0.96	\$0.97	\$0.62	\$0.54	\$0.35	\$0.26	\$0.21	\$0.20
Germany	\$2.04	\$1.86	\$1.43	\$1.26	\$1.18	\$1.32	\$1.47	\$1.70	\$1.61	\$1.58	\$1.71	\$1.43	\$1.10	\$0.83	\$0.51	\$0.39	\$0.23	\$0.20	\$0.21	\$0.20
Greece	N/A	N/A	N/A	N/A	N/A	\$1.79	\$2.00	\$2.32	\$2.20	\$2.15	\$2.32	\$2.19	\$1.66	\$1.55	\$1.41	\$1.26	\$1.01	\$0.86	\$0.55	\$0.34
Guatemala	N/A	N/A	N/A	N/A	N/A	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.40	\$1.30	\$1.20	\$1.18	\$1.00	\$0.90	\$0.77	\$0.68
Hong Kong	\$8.00	\$8.00	\$8.00	\$8.00	\$8.00	\$2.60	\$2.50	\$2.50	\$2.50	\$2.35	\$2.20	\$1.90	\$1.60	\$1.20	\$1.00	\$1.00	\$0.94	\$0.79	\$0.72	\$0.14
India	N/A	N/A	N/A	N/A	N/A	\$2.70	\$2.50	\$2.50	\$2.25	\$2.25	\$2.25	\$2.25	\$2.00	\$1.90	\$1.80	\$1.80	\$1.60	\$1.42	\$1.28	\$1.28
Israel	\$2.25	\$2.25	\$2.50	\$2.40	\$2.40	\$2.10	\$2.10	\$1.90	\$1.90	\$1.90	\$1.90	\$1.63	\$1.40	\$1.40	\$1.23	\$1.18	\$0.70	\$0.59	\$0.30	
Italy	\$2.29	\$1.90	\$1.80	\$1.71	\$1.60	\$1.79	\$2.00	\$2.32	\$1.61	\$1.58	\$1.70	\$1.72	\$1.65	\$1.10	\$0.82	\$0.71	\$0.52	\$0.33	\$0.22	\$0.22
Jamaica	\$2.29	\$1.90	\$1.80	\$1.71	\$1.60	\$1.79	\$2.00	\$2.32	\$0.74	\$0.74	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40	\$1.40	\$1.30	\$1.25	\$1.25	\$1.15
Japan	\$3.00	\$3.00	\$2.66	\$2.66	\$2.66	\$2.35	\$2.35	\$2.35	\$1.80	\$1.76	\$1.91	\$1.62	\$1.31	\$1.04	\$0.94	\$0.94	\$0.91	\$0.86	\$0.29	\$0.29
Korea, Rep.	\$3.00	\$3.00	\$3.00	\$3.00	\$2.80	\$2.80	\$2.60	\$2.52	\$2.44	\$2.36	\$2.10	\$1.90	\$1.60	\$1.44	\$1.41	\$1.26	\$1.23	\$0.98	\$0.85	\$0.71
Mexico	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	\$1.45	\$1.32	\$1.16	\$1.10	\$1.00	\$0.91	\$0.67	\$0.68	\$0.70	\$0.74	\$0.38
Netherlands	\$2.04	\$1.86	\$1.76	\$1.26	\$1.18	\$1.32	\$1.47	\$1.70	\$1.61	\$1.45	\$1.56	\$1.29	\$0.69	\$0.69	\$0.59	\$0.37	\$0.36	\$0.27	\$0.19	\$0.14
Nigeria	N/A	N/A	N/A	N/A	N/A	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.50	\$1.40	\$1.15
Pakistan	N/A	N/A	N/A	N/A	N/A	\$2.55	\$2.55	\$2.55	\$2.55	\$2.55	\$2.30	\$2.30	\$2.30	\$2.30	\$2.30	\$2.30	\$1.40	\$1.20	\$1.20	\$1.20
Peru	N/A	N/A	N/A	N/A	N/A	\$2.00	\$2.00	\$1.50	\$1.35	\$1.20	\$1.20	\$1.20	\$1.50	\$1.40	\$1.30	\$1.30	\$1.23	\$1.00	\$0.85	\$0.66
Philippines	\$2.70	\$2.70	\$2.70	\$2.70	\$2.50	\$2.30	\$2.30	\$2.15	\$2.00	\$1.50	\$1.50	\$1.50	\$1.25	\$1.25	\$1.34	\$1.23	\$1.00	\$0.82	\$0.72	\$0.57
Poland	N/A	N/A	N/A	N/A	N/A	\$2.00	\$1.75	\$1.75	\$1.65	\$1.50	\$1.50	\$1.35	\$1.30	\$1.25	\$1.20	\$1.15	\$0.95	\$0.70	\$0.55	\$0.42
Russia	N/A	N/A	N/A	N/A	N/A	\$6.75	\$6.75	\$6.75	\$6.75	\$2.25	\$2.25	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60	\$2.60
Saudia Arabia	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.36	\$2.20	\$2.20	\$2.20	\$2.20	\$2.20	\$2.20	\$1.62	\$1.73	\$1.36
South Africa	N/A	N/A	N/A	N/A	N/A	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$2.00	\$1.80	\$1.80	\$1.50	\$1.20	\$1.20	\$1.00	\$1.00	\$0.80	\$0.70
Spain	\$2.21	\$2.01	\$1.91	\$1.81	\$1.70	\$1.90	\$2.12	\$2.46	\$1.62	\$1.58	\$1.71	\$1.43	\$1.38	\$1.10	\$1.04	\$0.95	\$0.64	\$0.48	\$0.26	\$0.27
Switzerland	\$2.29	\$1.86	\$1.76	\$1.68	\$1.57	\$1.76	\$1.71	\$1.99	\$1.68	\$1.47	\$1.59	\$1.16	\$1.11	\$0.84	\$0.91	\$0.52	\$0.51	\$0.34	\$0.28	\$0.27
Taiwan	\$2.25	\$2.25	\$2.25	\$2.25	\$2.25	\$2.00	\$2.00	\$2.00	\$2.00	\$1.90	\$1.80	\$1.60	\$1.40	\$1.20	\$1.20	\$1.20	\$1.20	\$1.14	\$0.45	
Thailand	N/A	N/A	N/A	N/A	N/A	\$2.50	\$2.50	\$2.50	\$2.50	\$2.30	\$2.30	\$2.00	\$1.75	\$1.60	\$1.60	\$1.55	\$1.50	\$1.20	\$0.90	\$0.70
United Kingdom	\$1.20	\$1.20	\$1.06	\$0.76	\$0.76	\$0.76	\$0.76	\$0.76	\$0.76	\$0.76	\$0.76	\$0.69	\$0.52	\$0.48	\$0.49	\$0.37	\$0.22	\$0.14	\$0.13	\$0.13

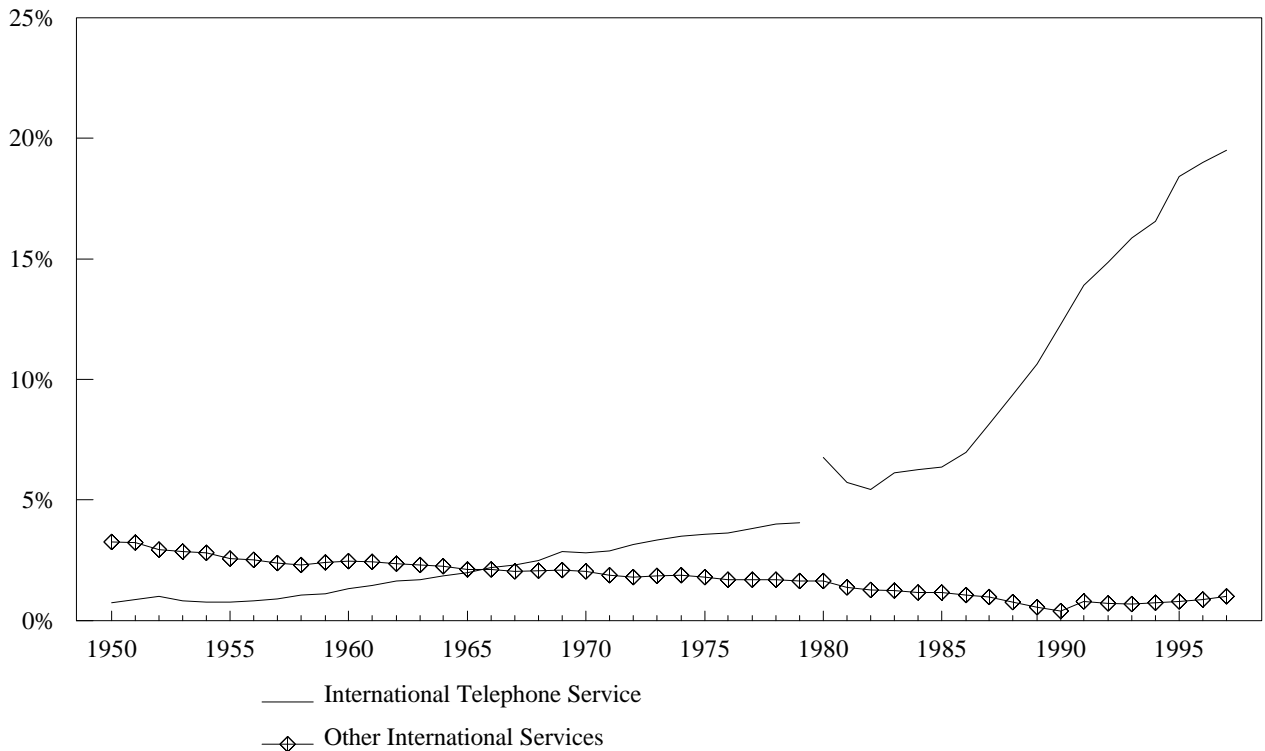
<sup>1/</sup> The Fisher Ideal index of accounting rates is based on the accounting rates for the countries in the table, denominated in U.S. dollars and weighted by U.S. Billed minutes. Where off-peak accounting rates exist, peak accounting rates were weighted 2/3 and off-peak accounting rates were weighted 1/3.

<sup>2/</sup> Peak period accounting rates are shown in this table if the rates in the off-peak period are the same as the rates in the peak period.

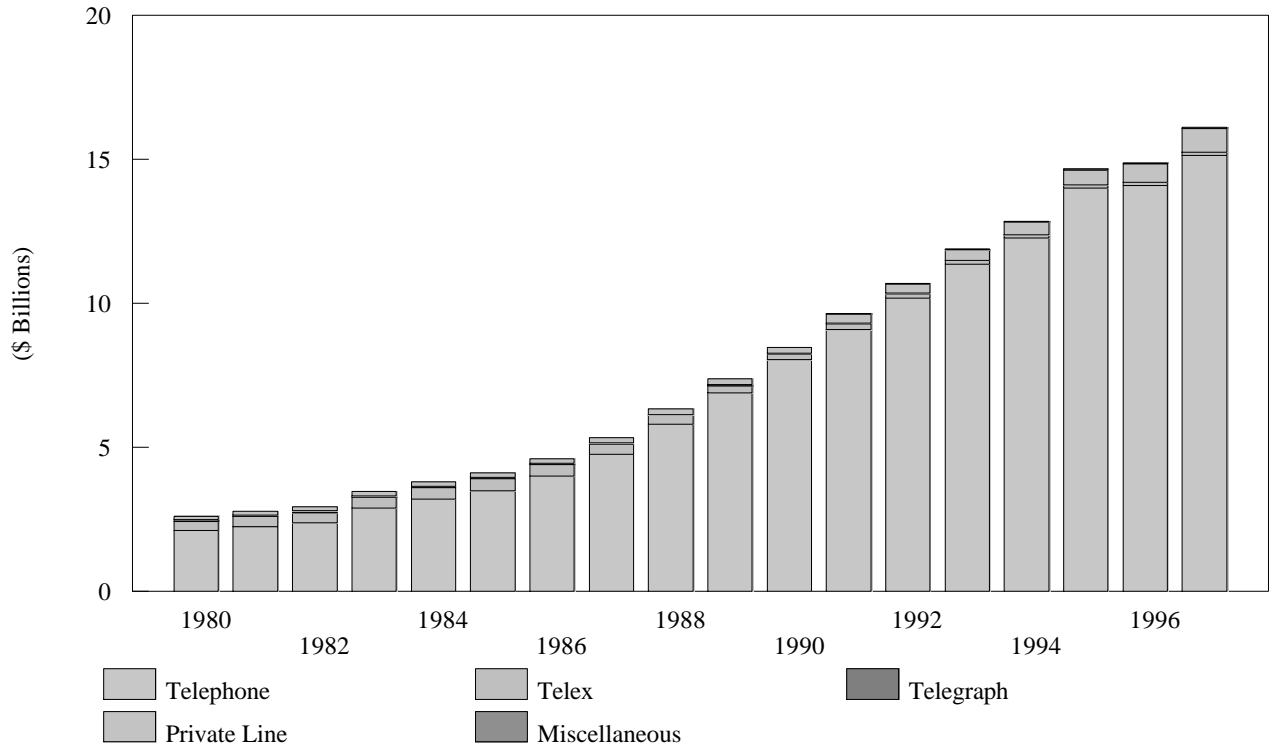
**Figure 1: Individual International Service Revenues as a Percentage of Total International Revenues**



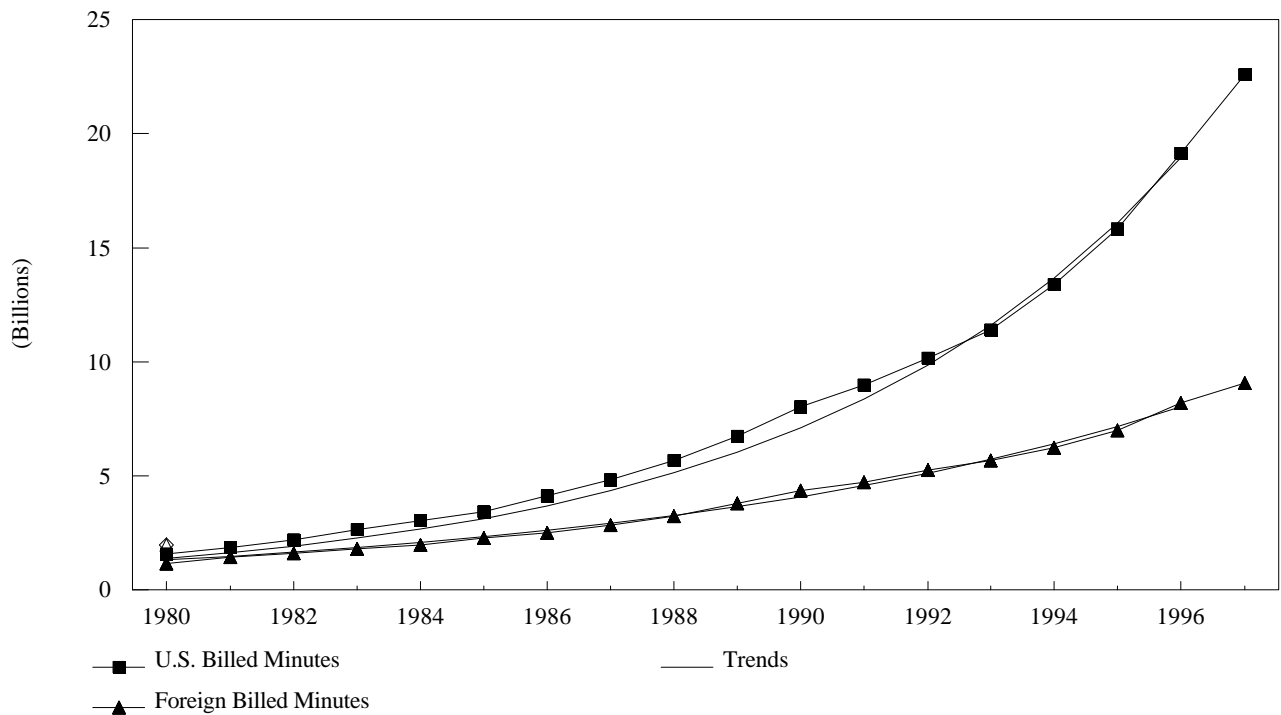
**Figure 2: International Service Net Revenues as Percentages of Total Domestic and International Toll Revenues**



**Figure 3: U.S. Carrier Billed Revenues by Service**

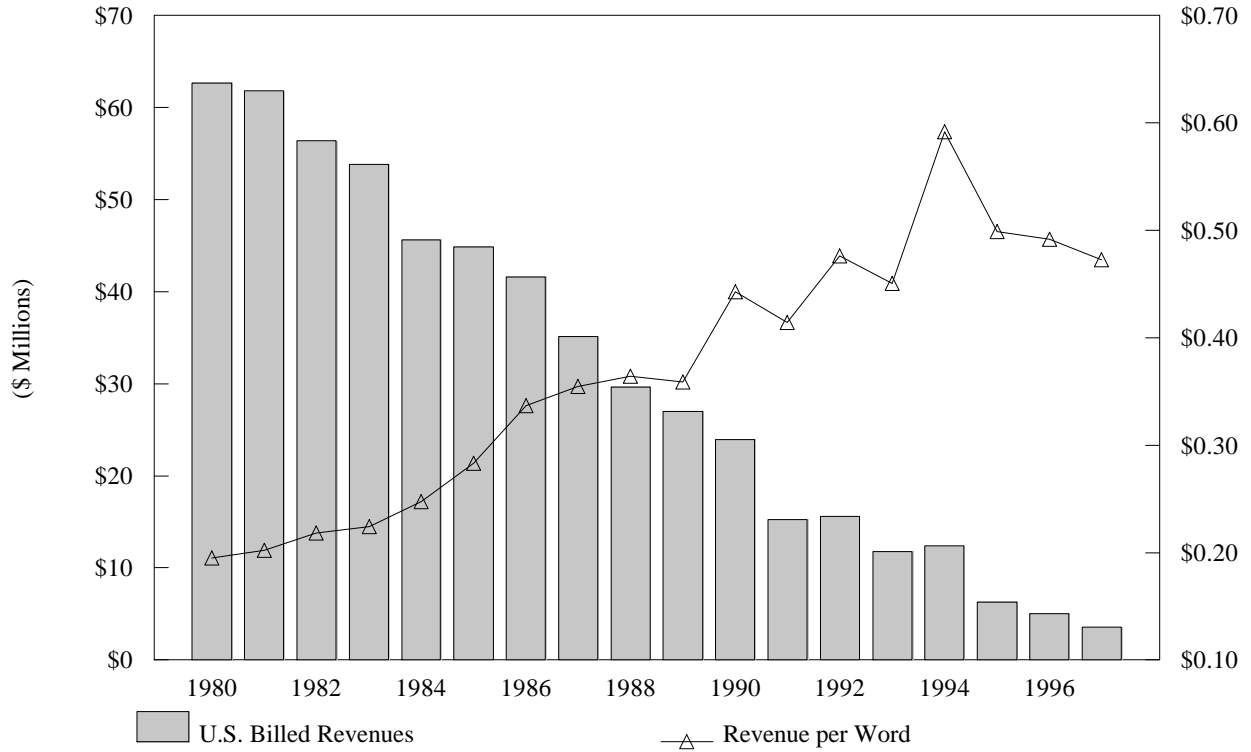


**Figure 4: International Telephone Service U.S. Billed and Foreign Billed Minutes of Service**

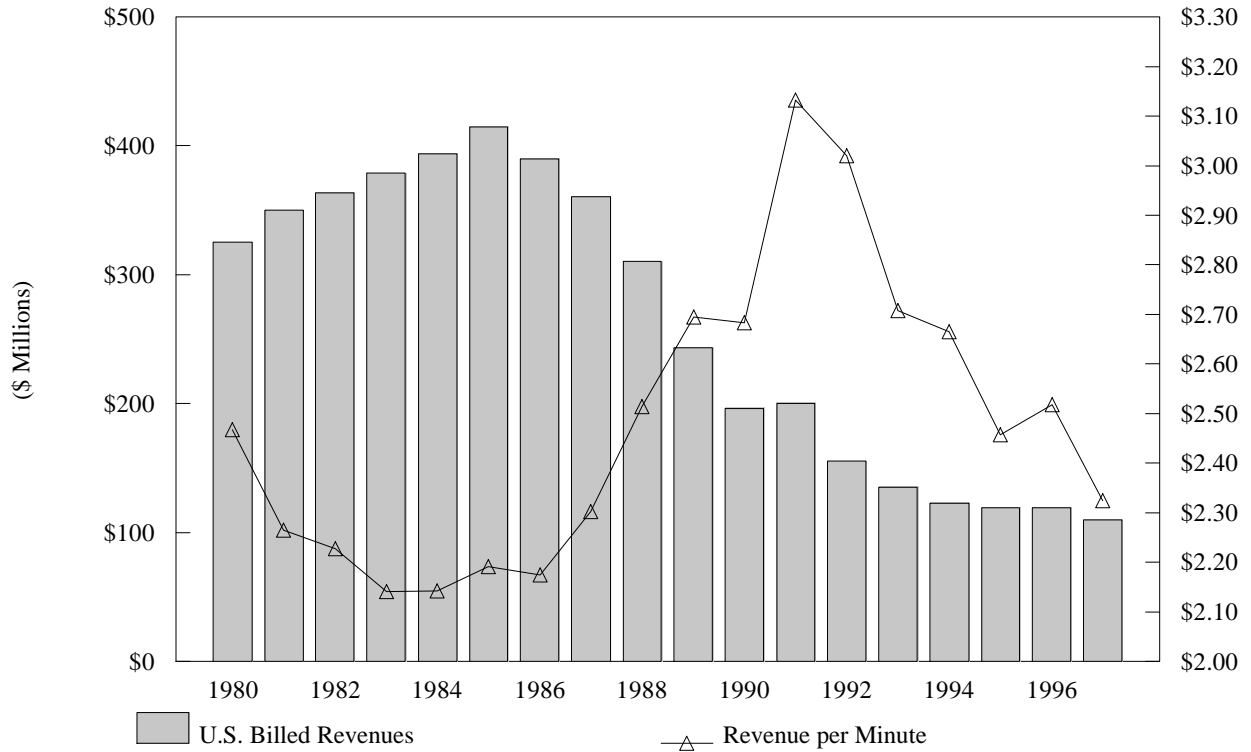




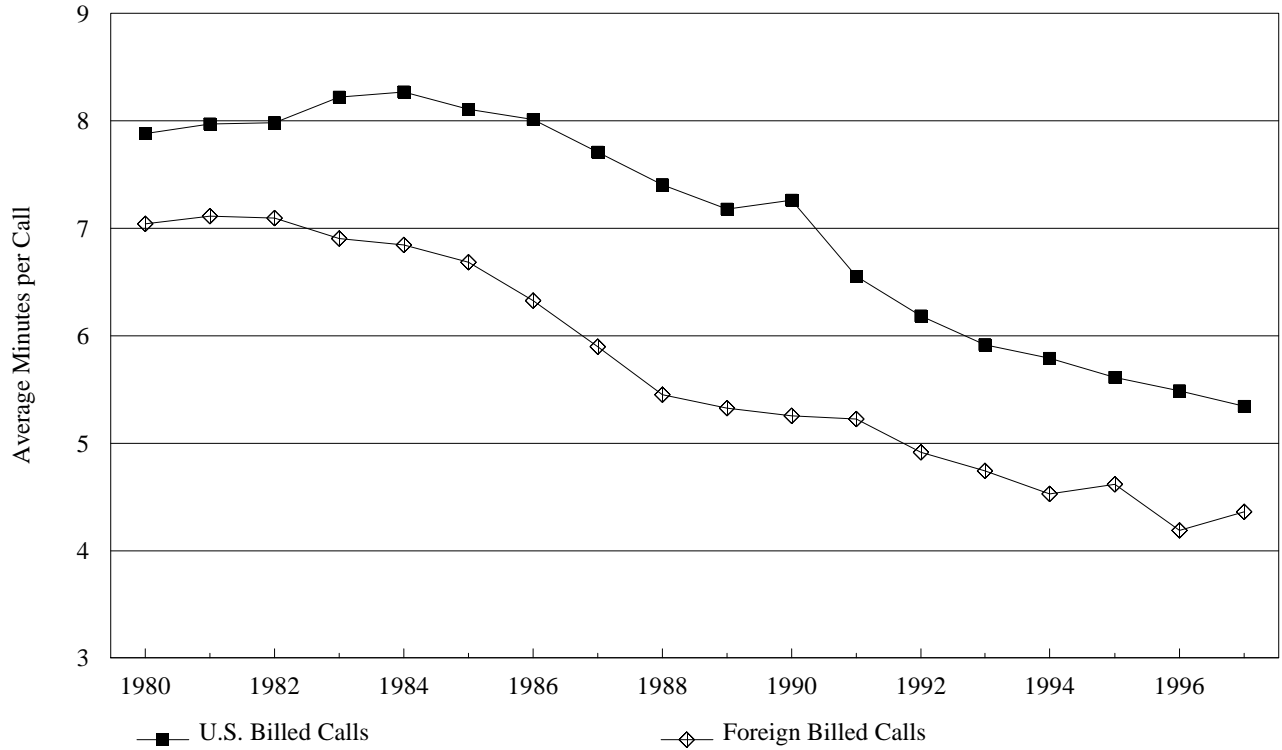
**Figure 5: International Telegraph Service Traffic Data**



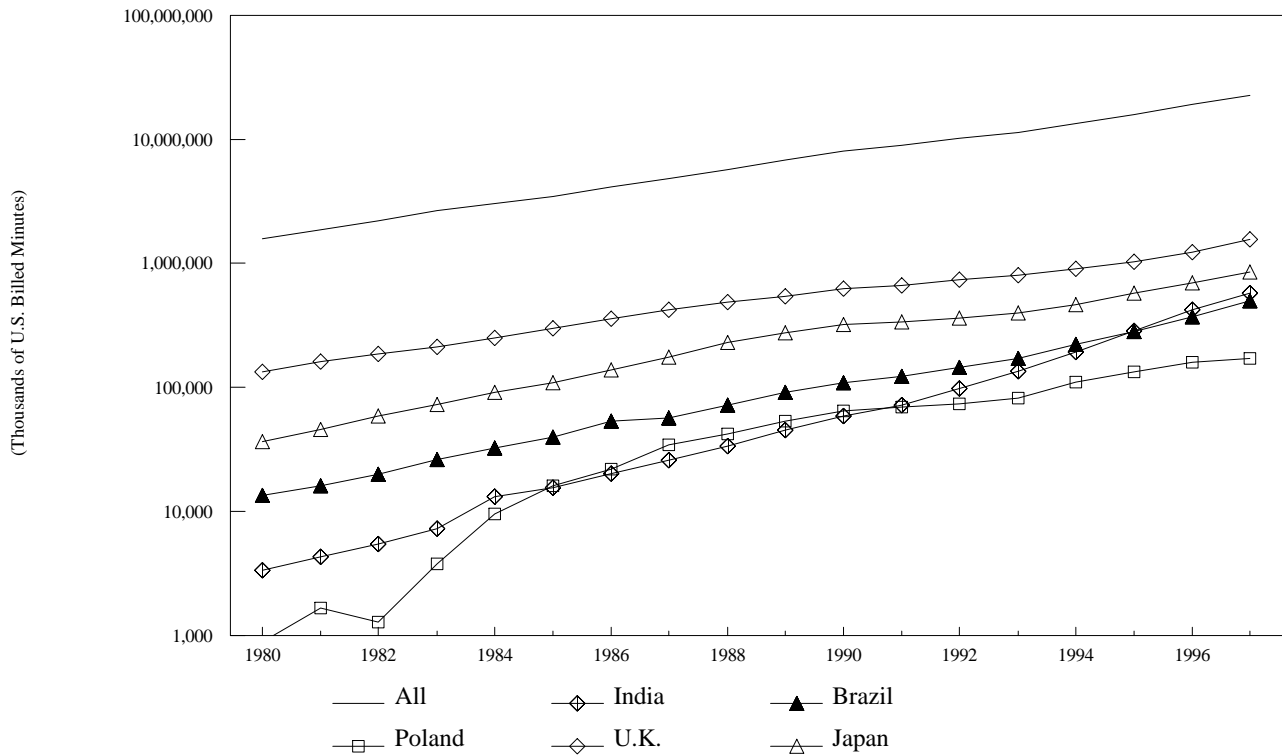
**Figure 6: International Telex Service Traffic Data**



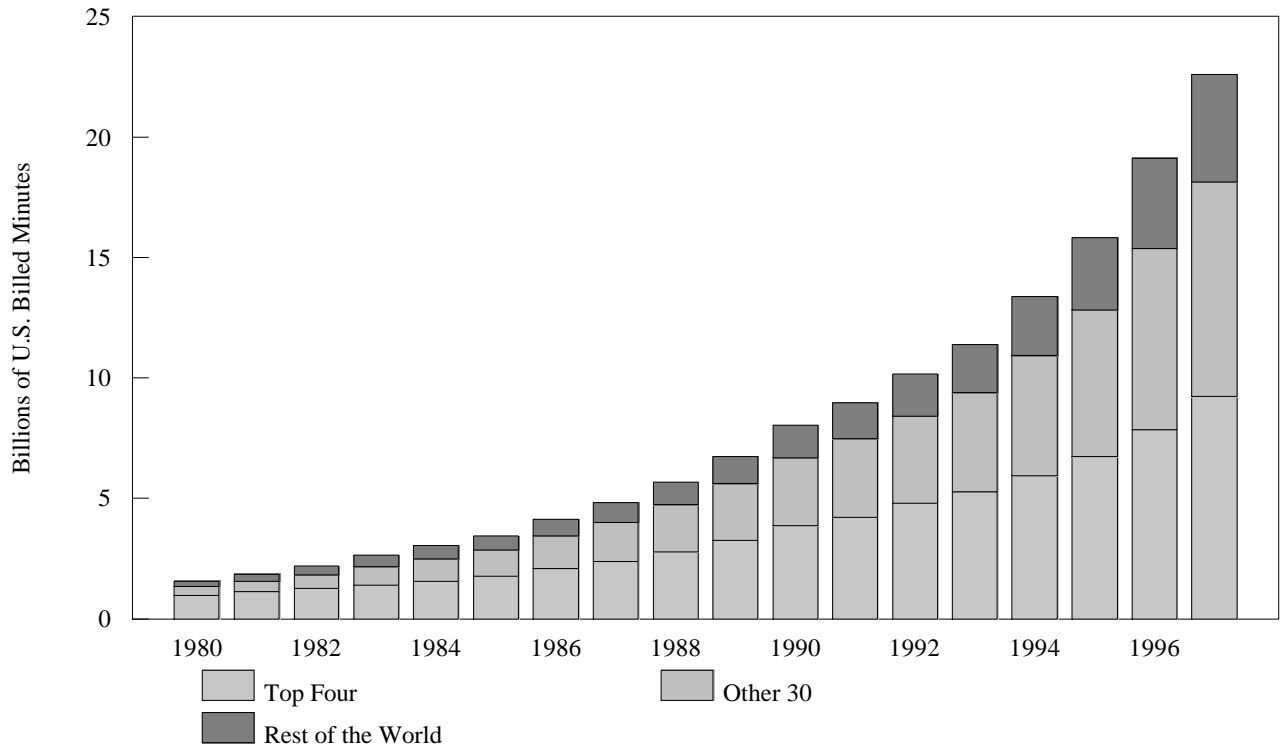
**Figure 7: Average Length of an International Telephone Call**



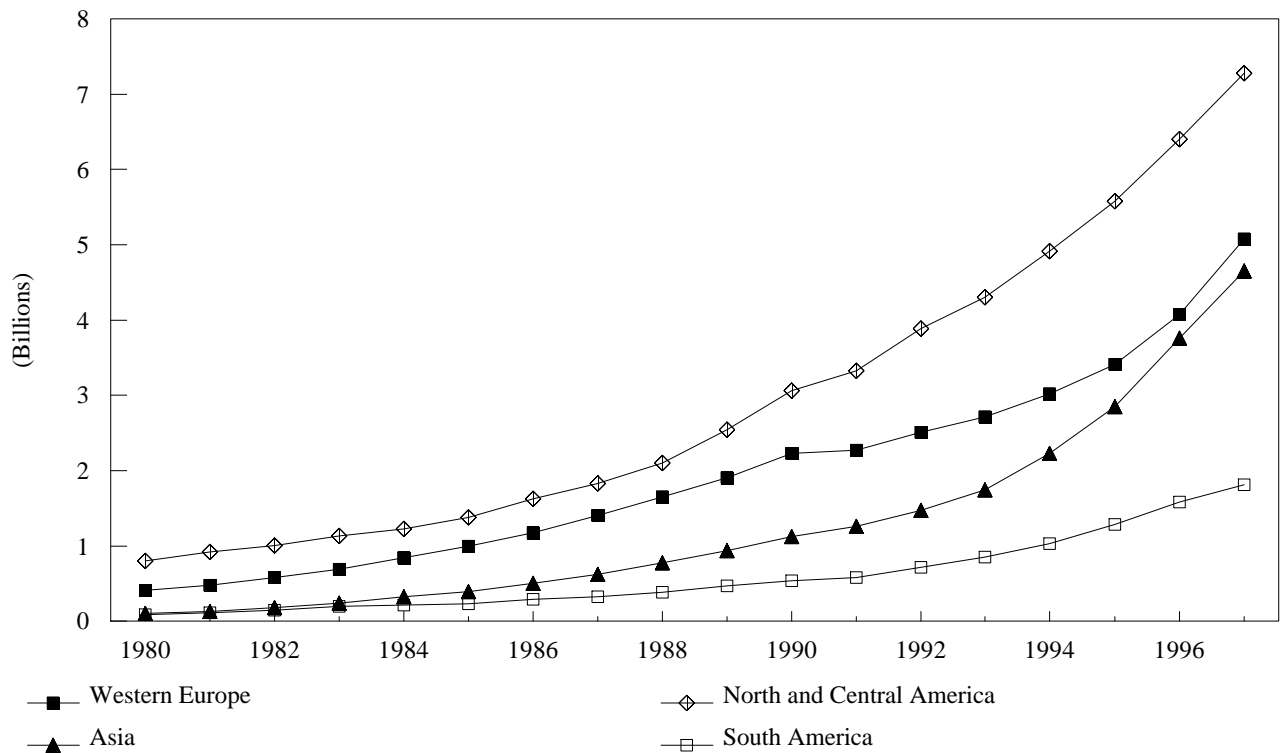
**Figure 8: U.S. Billed Telephone Service Minutes by Country**



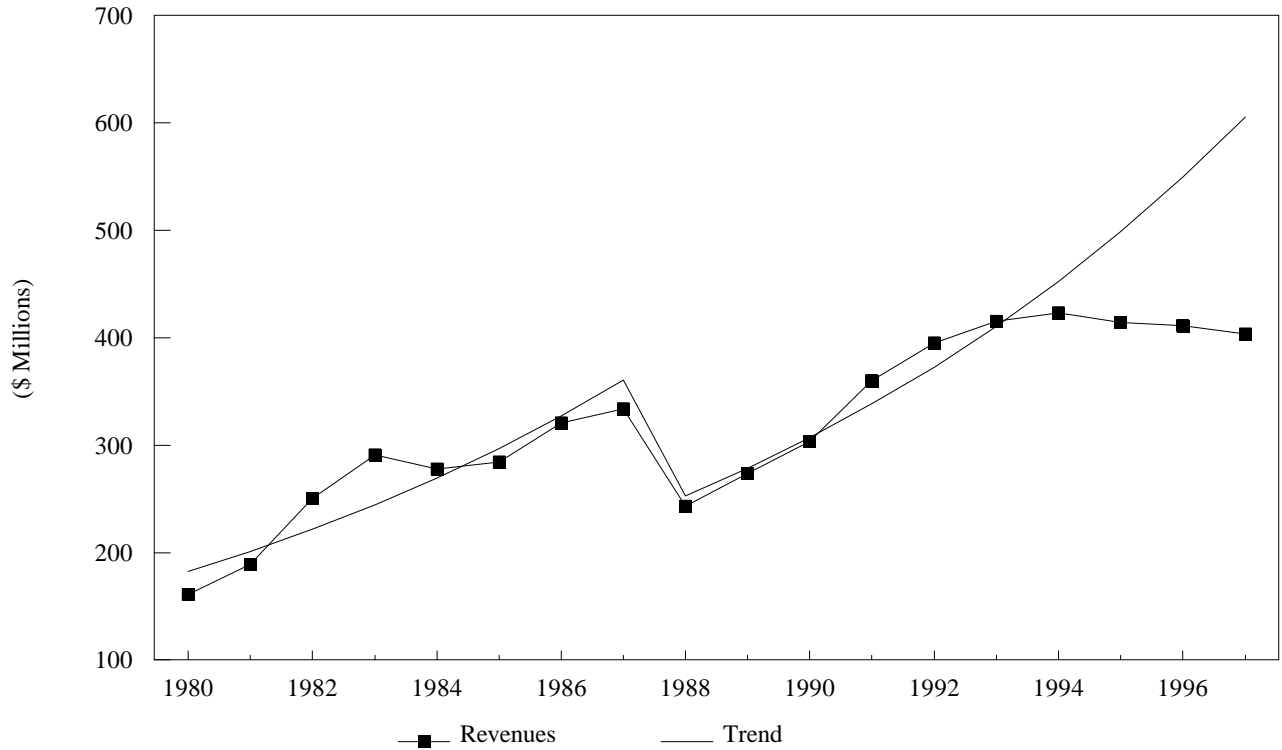
**Figure 9: U.S. Billed Telephone Service Minutes by Groups of Countries**



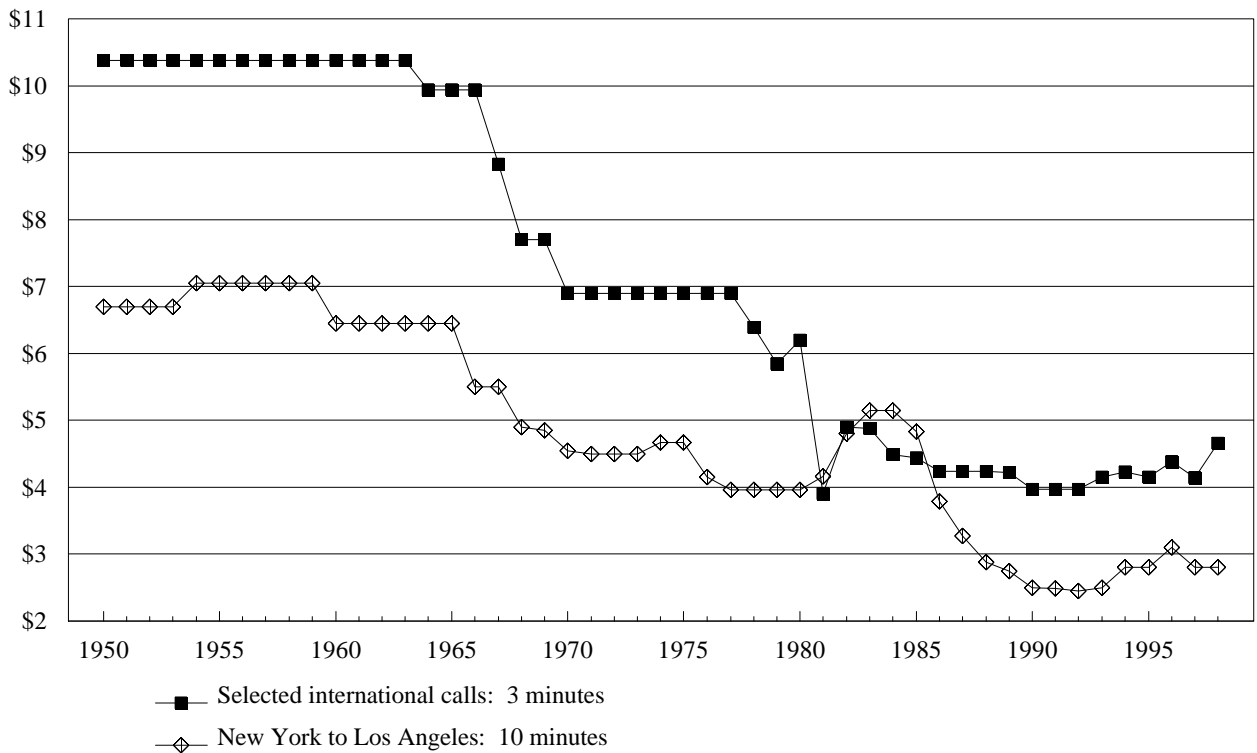
**Figure 10: U.S. Billed Telephone Service Minutes by Region**



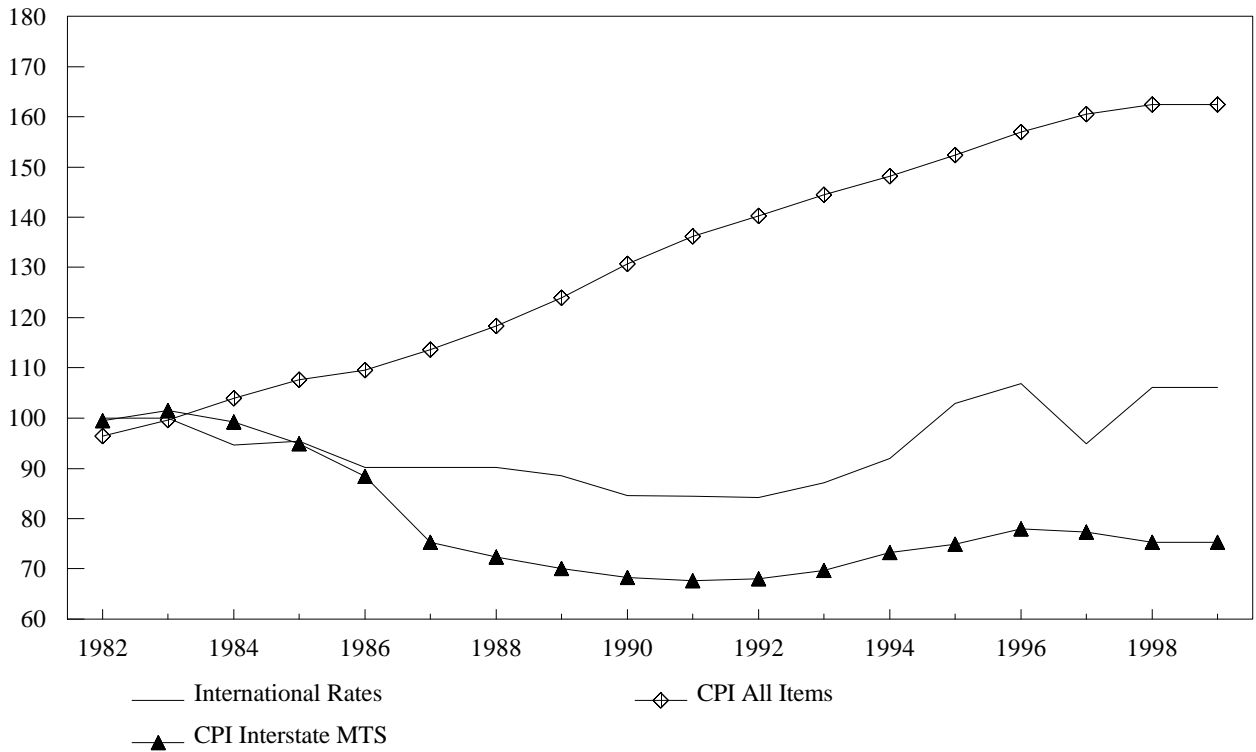
**Figure 11: COMSAT International Service Revenues**



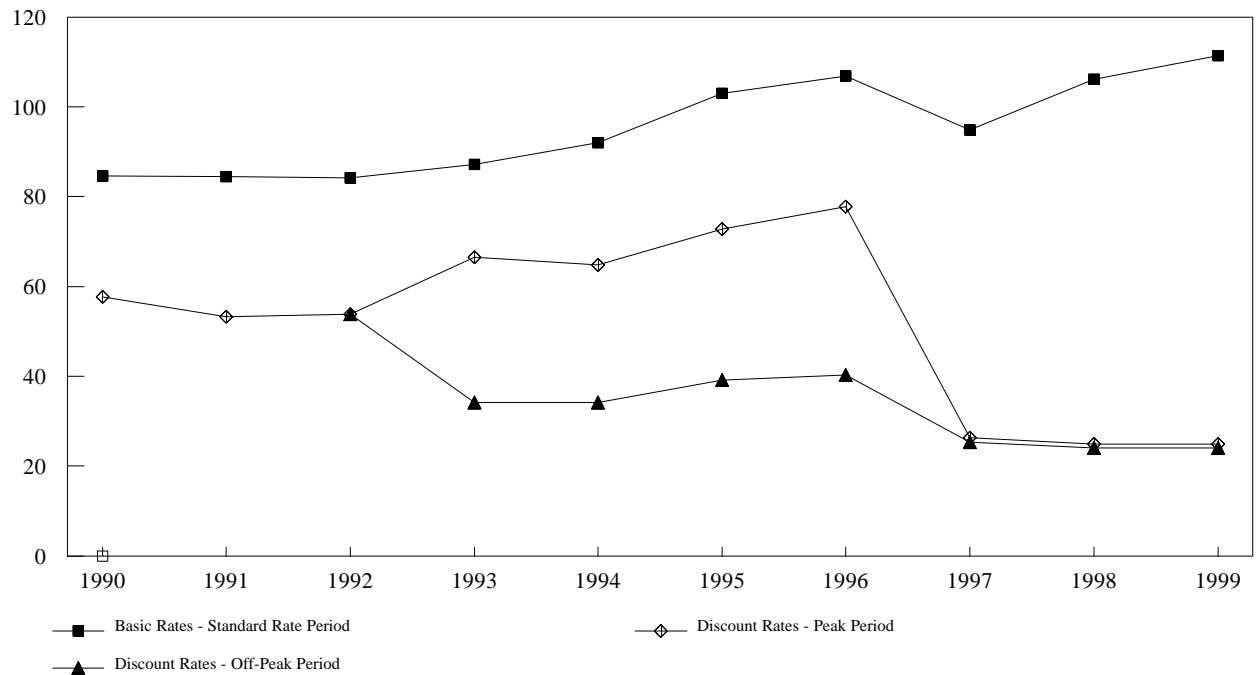
**Figure 12: International Rates Compared with Long-Haul Domestic Rates (Basic Rate Plans)**



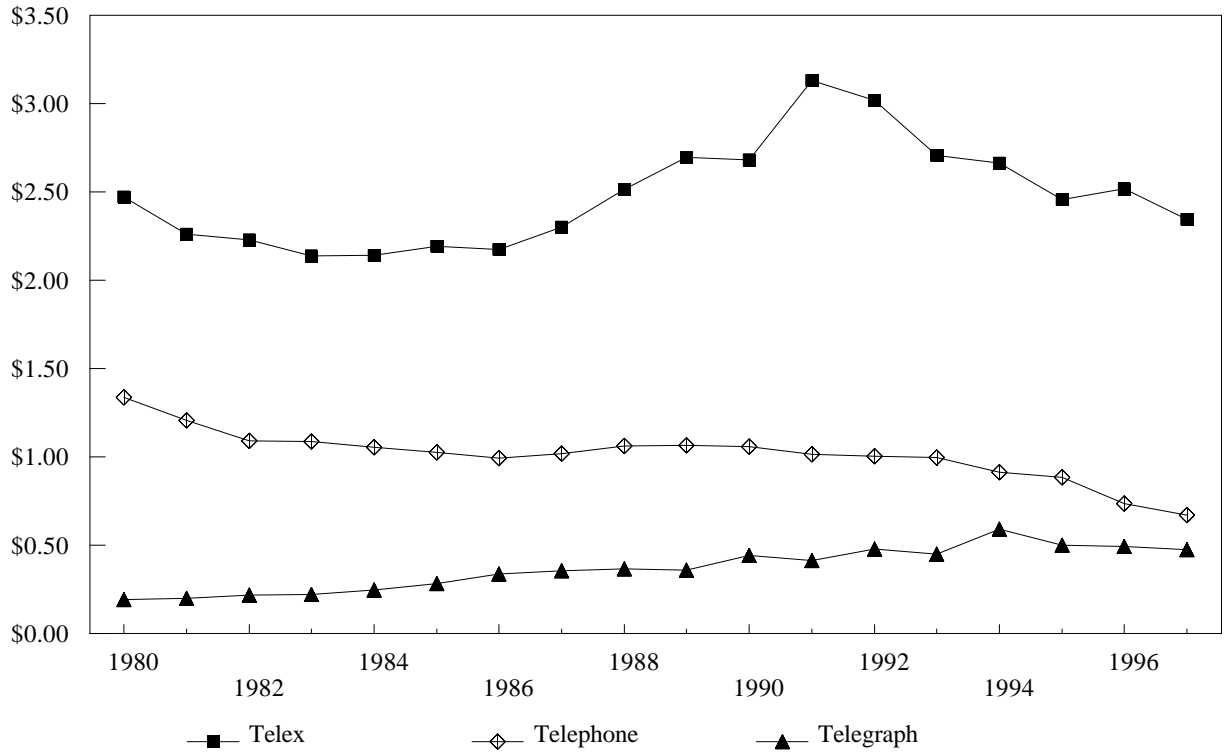
**Figure 13: International Rates Compared with Overall Inflation and the CPI for Interstate MTS**



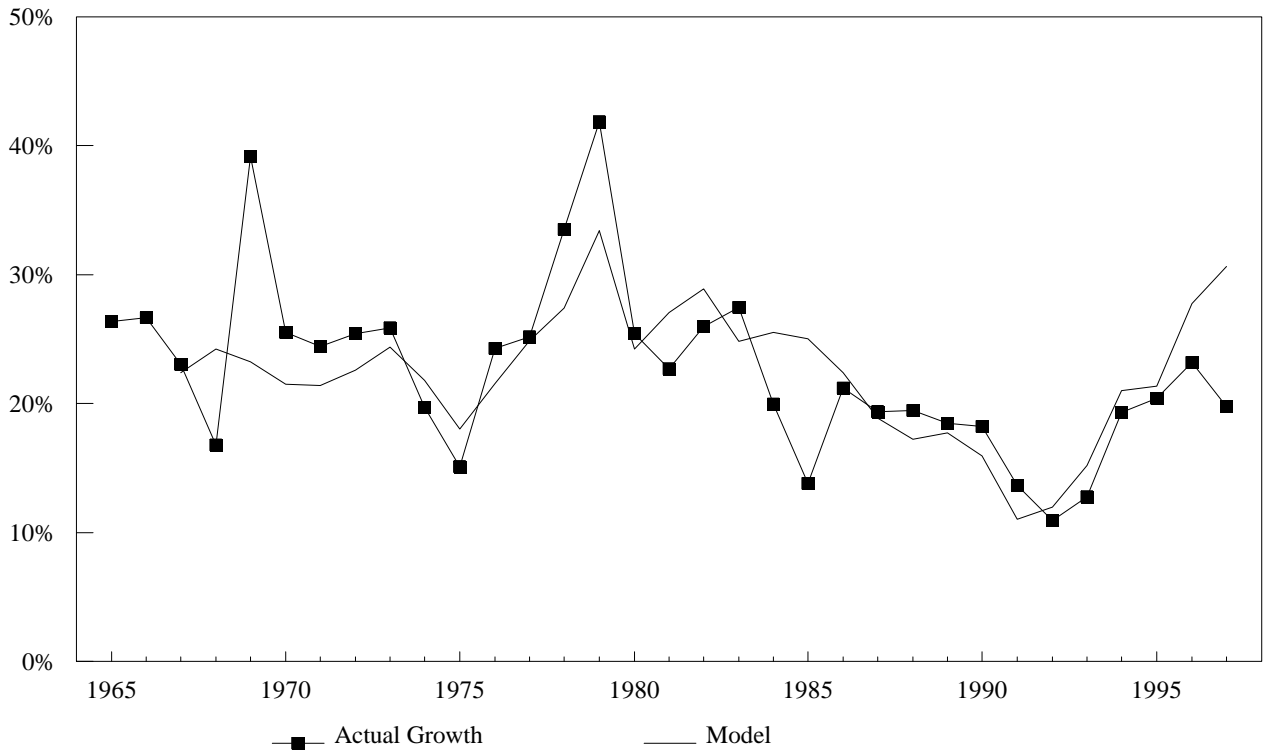
**Figure 14: Rate Indexes of Basic Standard Period Rates and Discount Plan Rates**



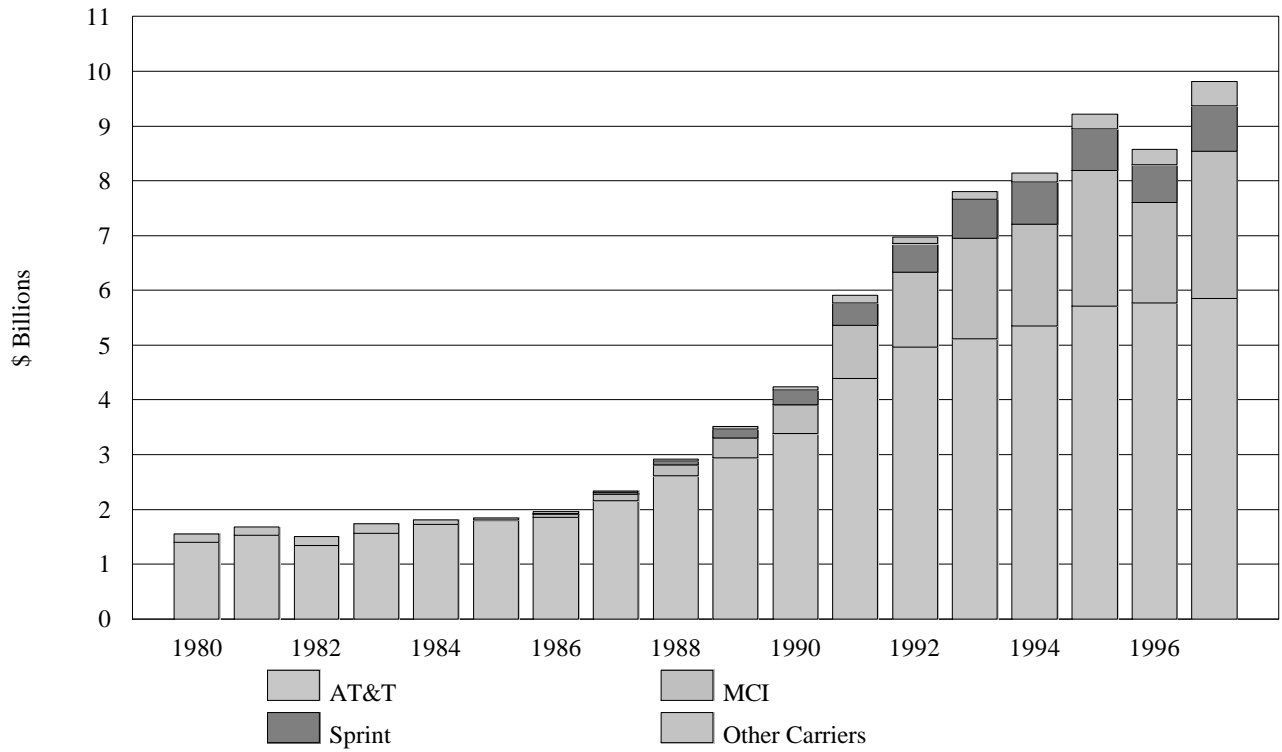
**Figure 15: Billings per Unit of U.S. Traffic by Service**



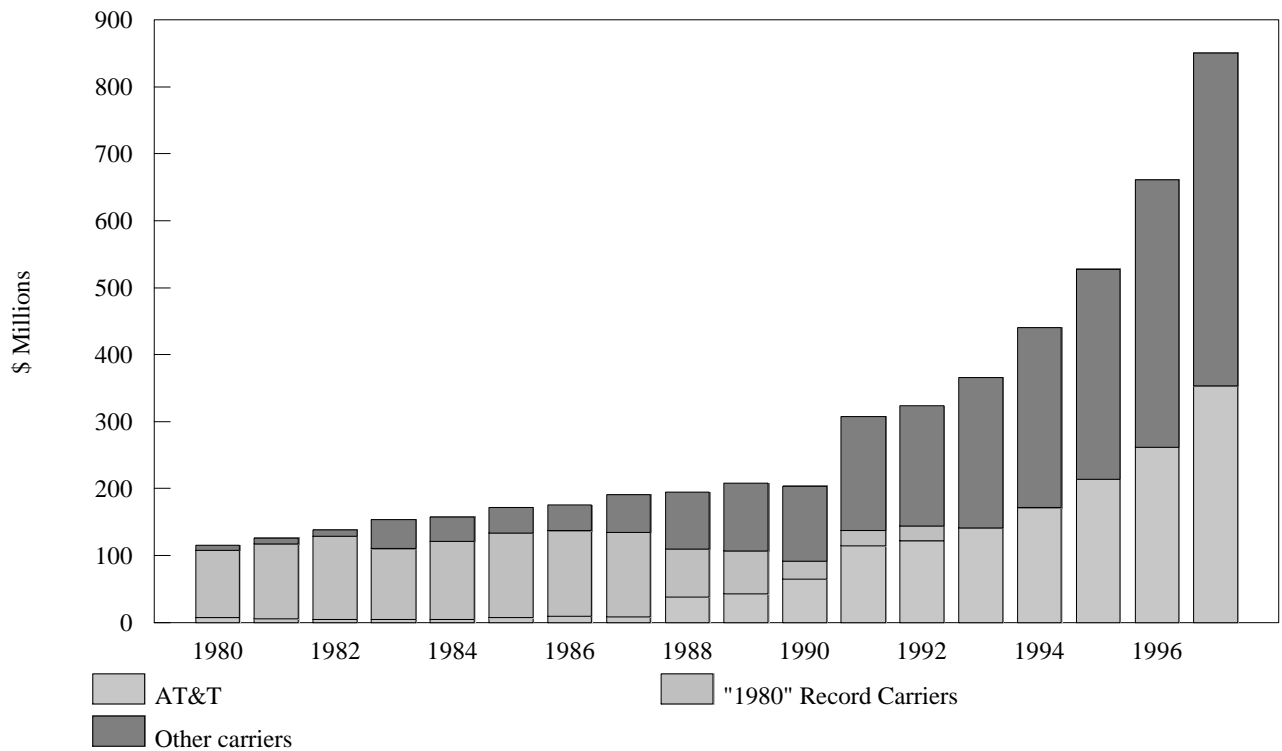
**Figure 16: Year-to-Year Percent Increases in U.S. Billed Minutes**



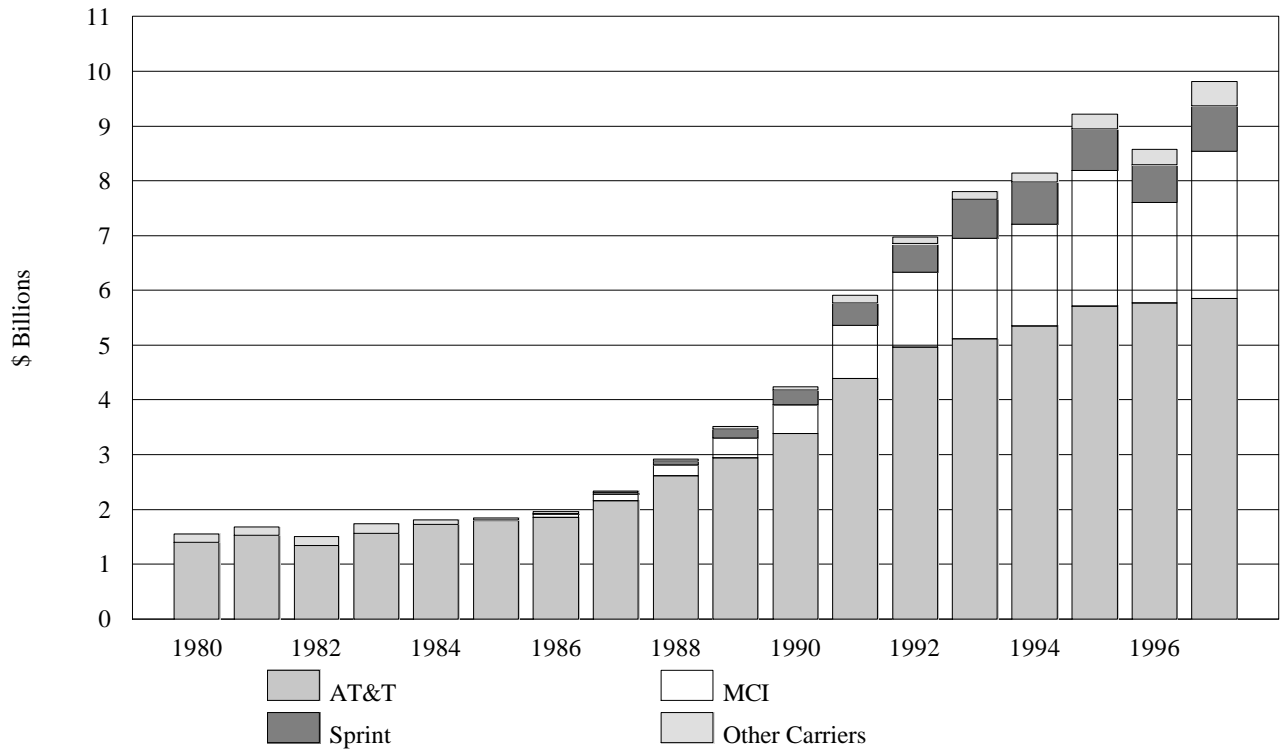
**Figure 17: Net Revenues for International Telephone Service by Carrier**



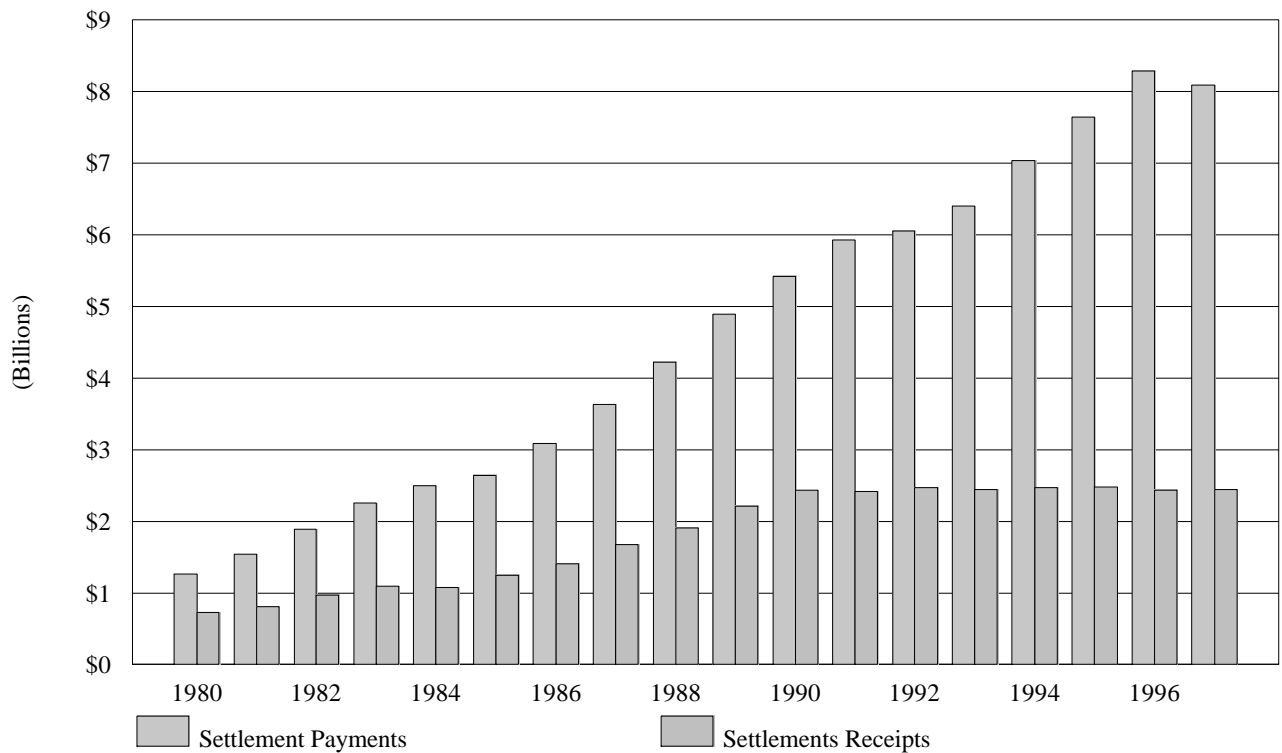
**Figure 18: Net Revenues for International Private Line Service by Carrier**



**Figure 19: Market Shares for the Total International Services Market**

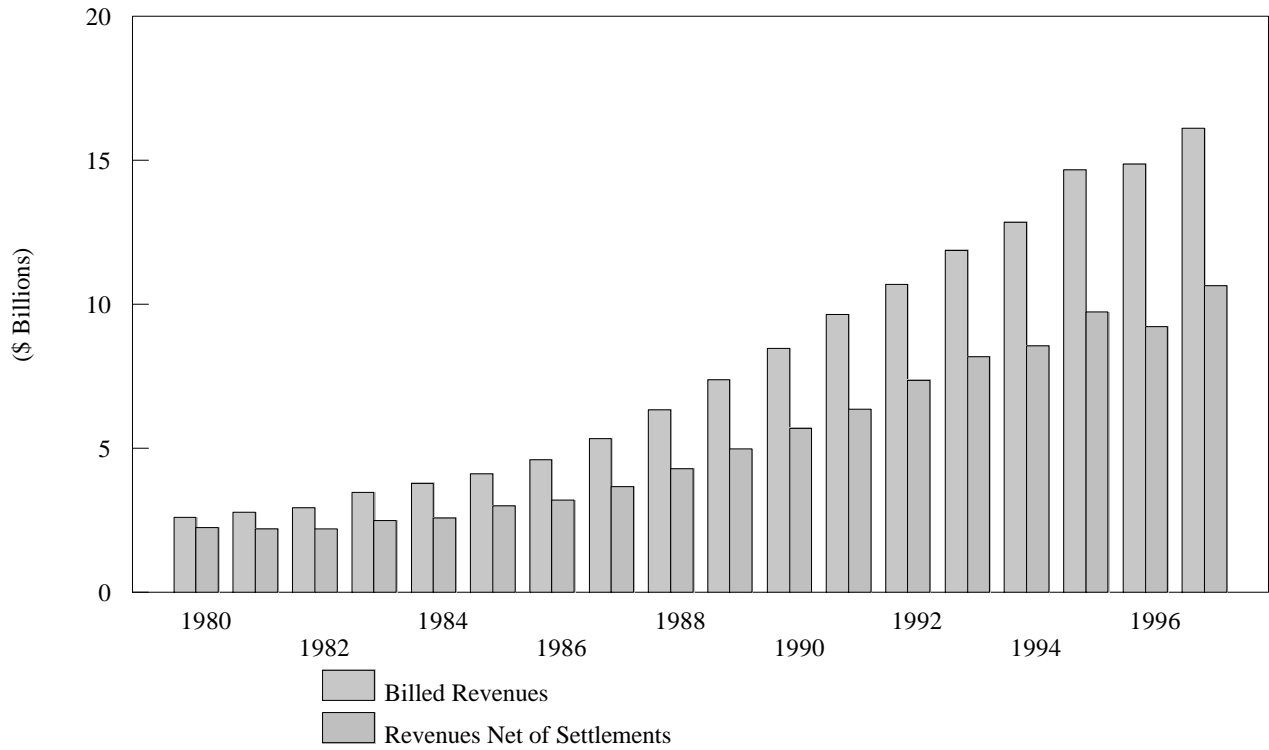


**Figure 20: Gross Settlement Amounts - Settlement Payments and Settlement Receipts**

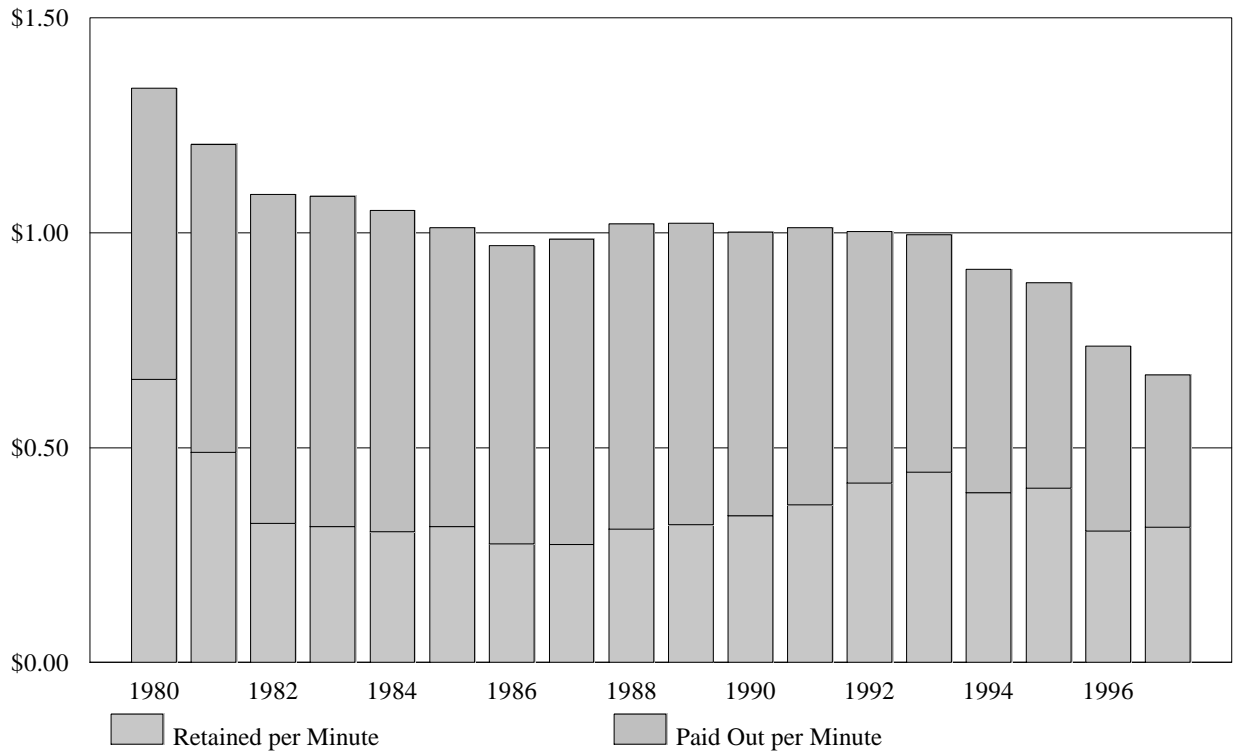




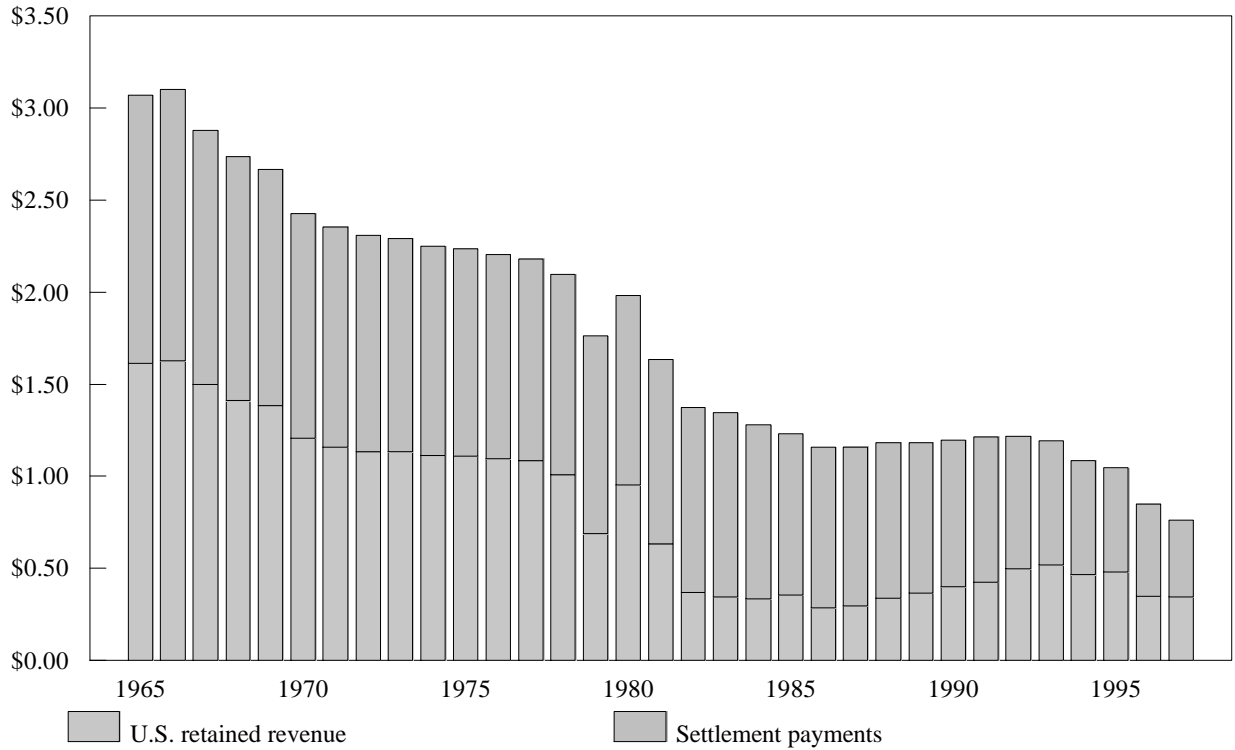
**Figure 21: U.S. Carrier Billed Revenues Before and After Settlements**



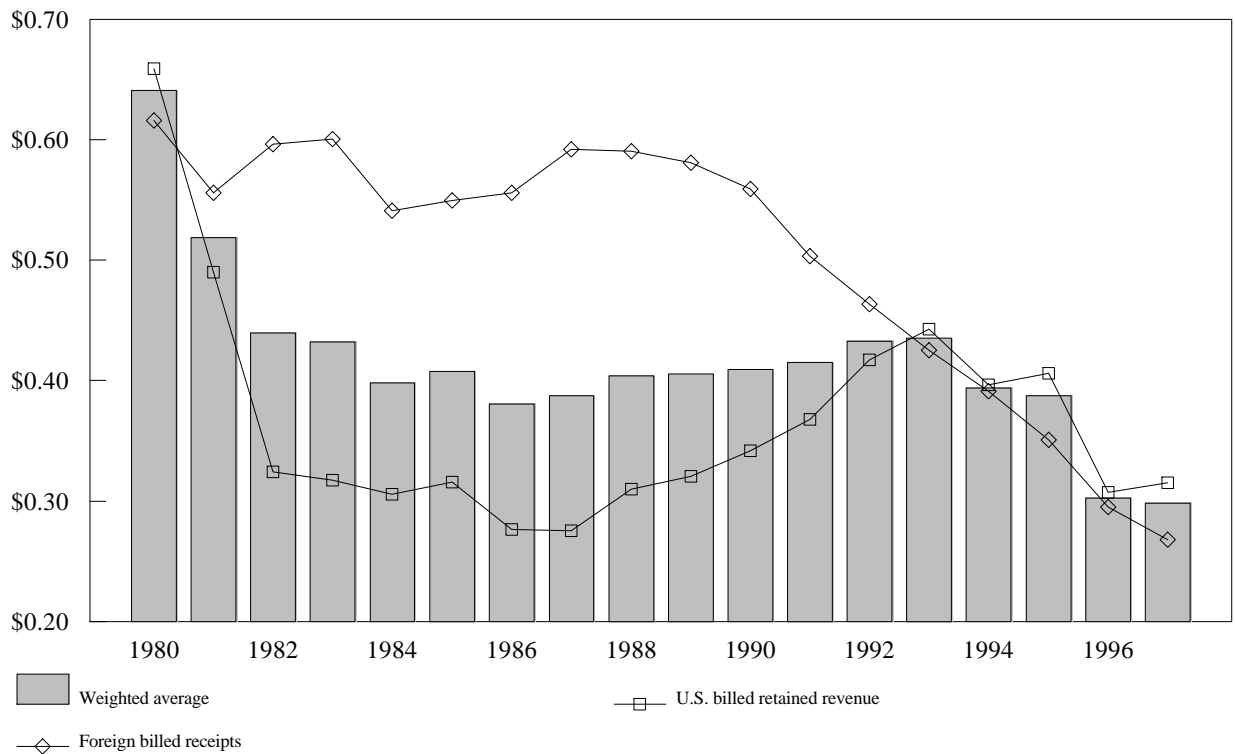
**Figure 22: Billed Revenue per Minute Divided to Show U.S. Retained Revenue and Settlement Payments**



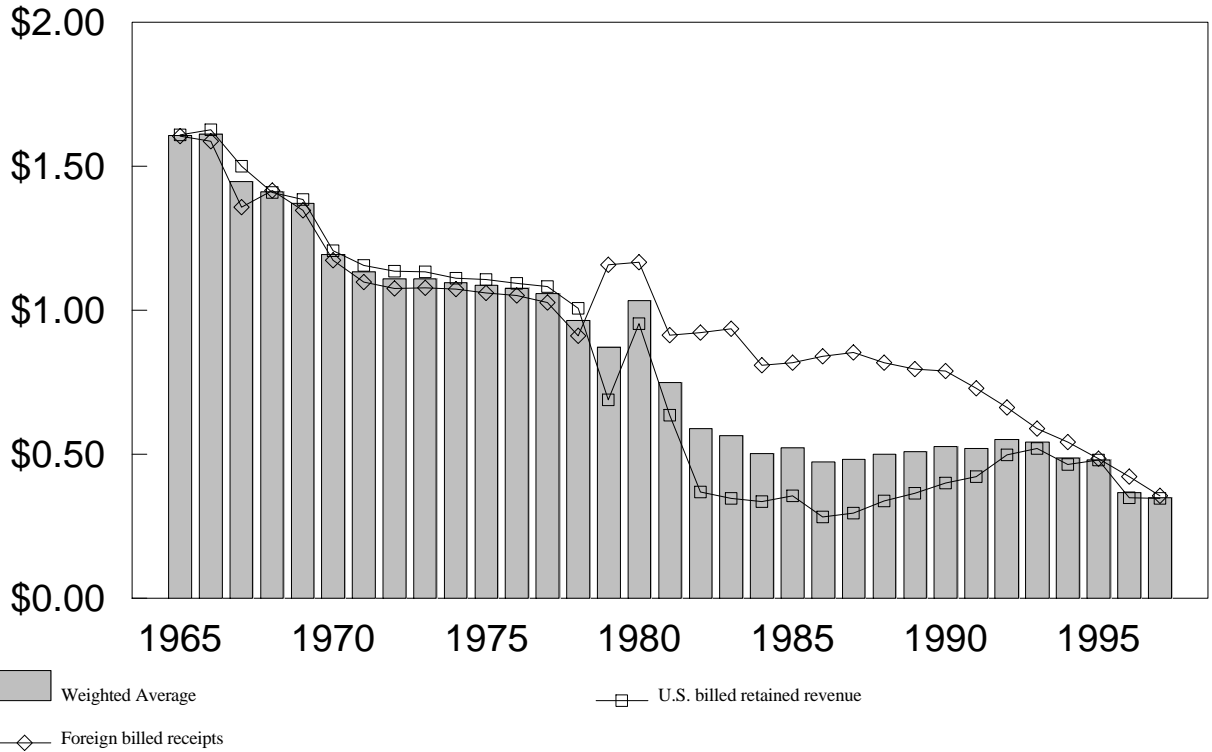
**Figure 23: Billed Revenue per Minute Divided to Show U.S. Retained Revenue and Settlement Payments (excluding Canada and Mexico)**



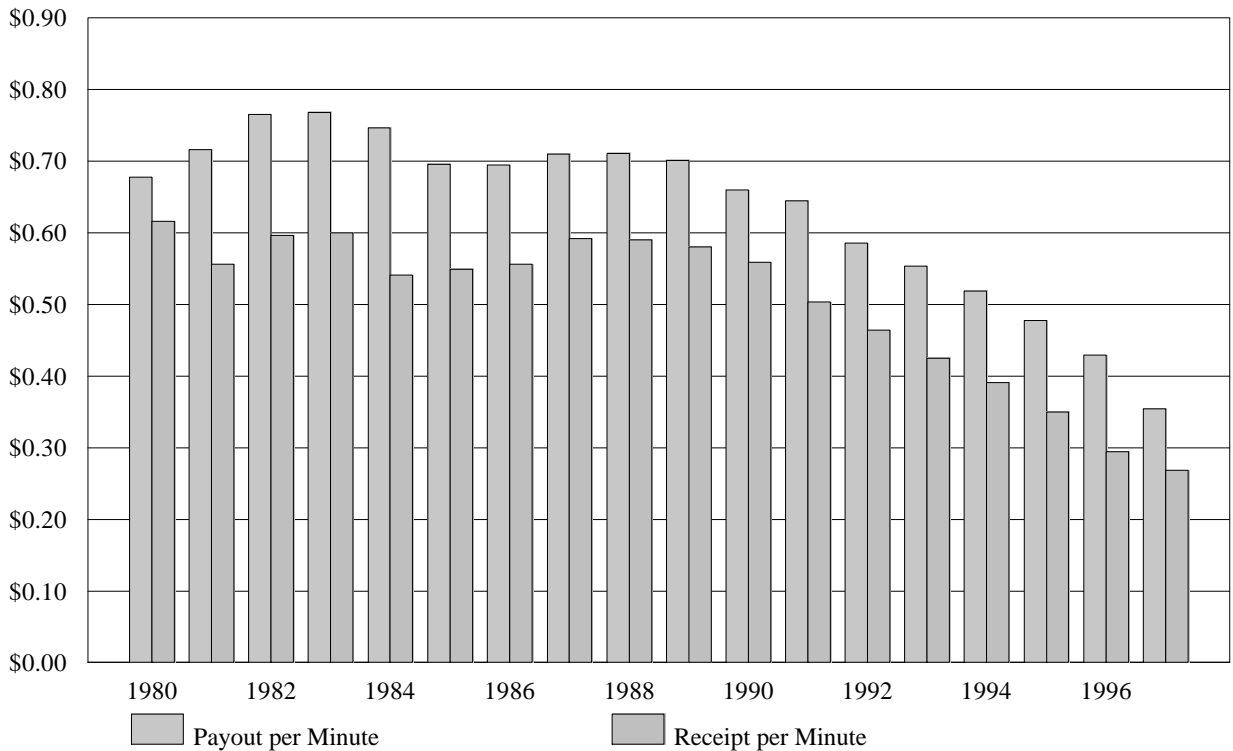
**Figure 24: U.S. Retained Revenue per Minute from U.S. Billed and Foreign Billed Traffic**



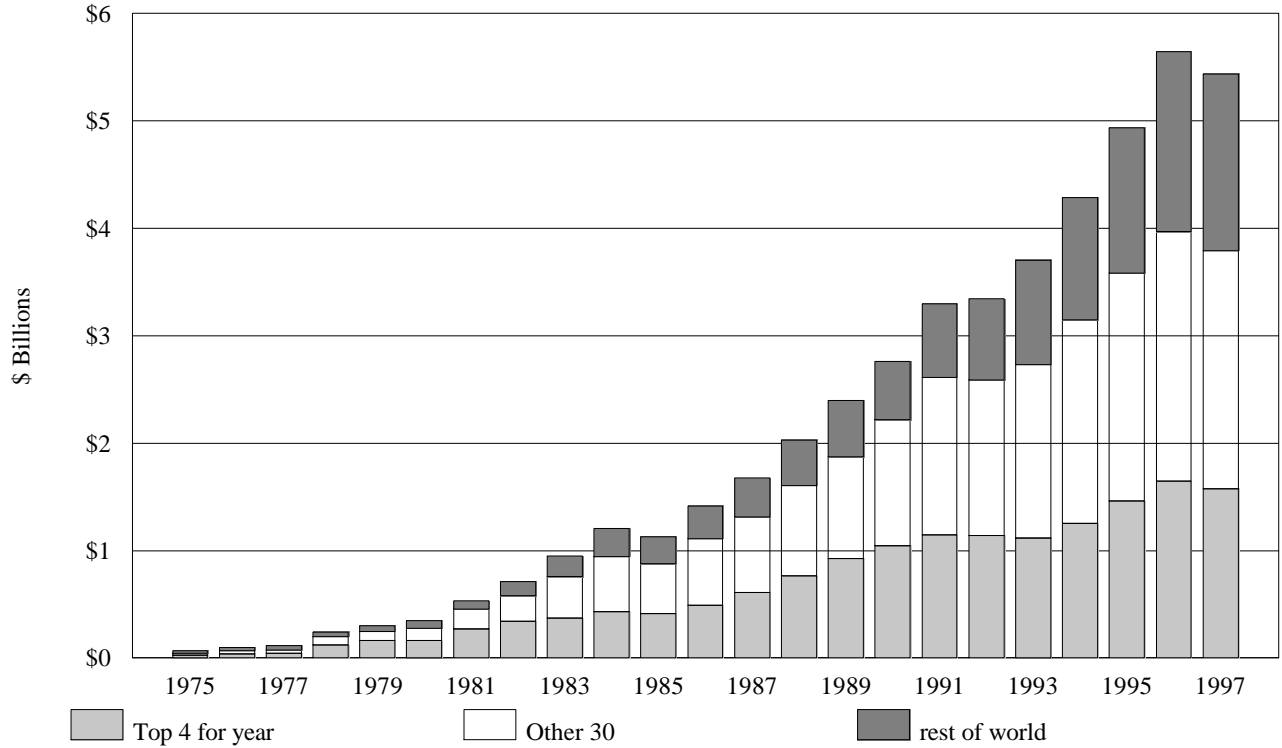
**Figure 25: U.S. Retained Revenue per Minute from U.S. Billed and Foreign Billed Traffic (excluding Canada and Mexico)**



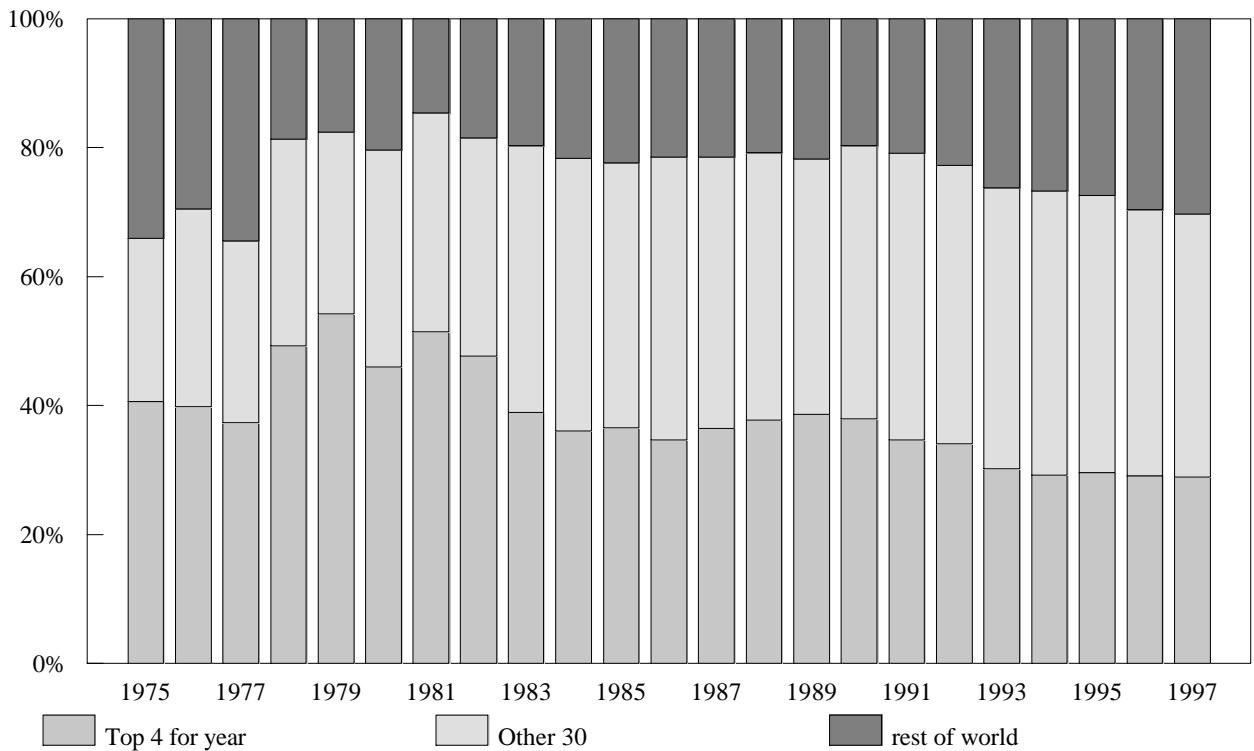
**Figure 26: U.S. versus Foreign Settlement Amounts per Minute**



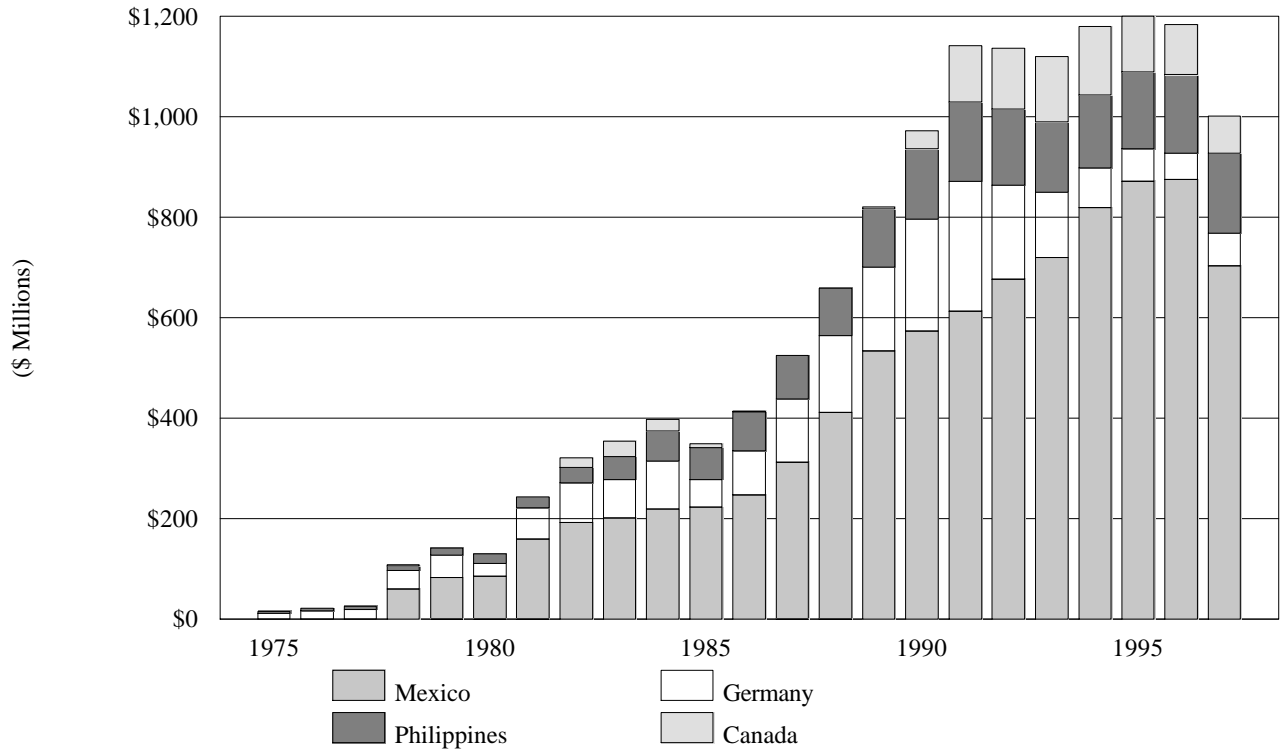
**Figure 27: Net Settlement Payments by Groups of Countries**



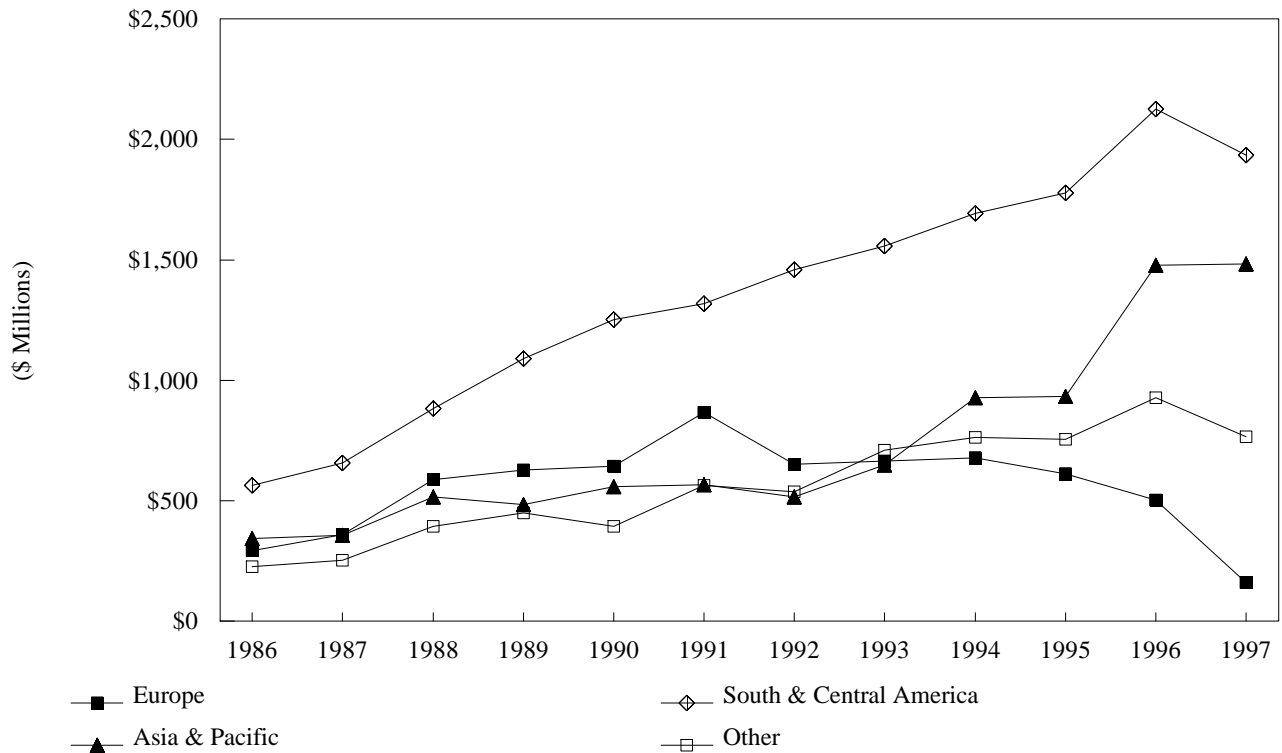
**Figure 28: Percentages of Net Settlement Payments by Groups of Countries**



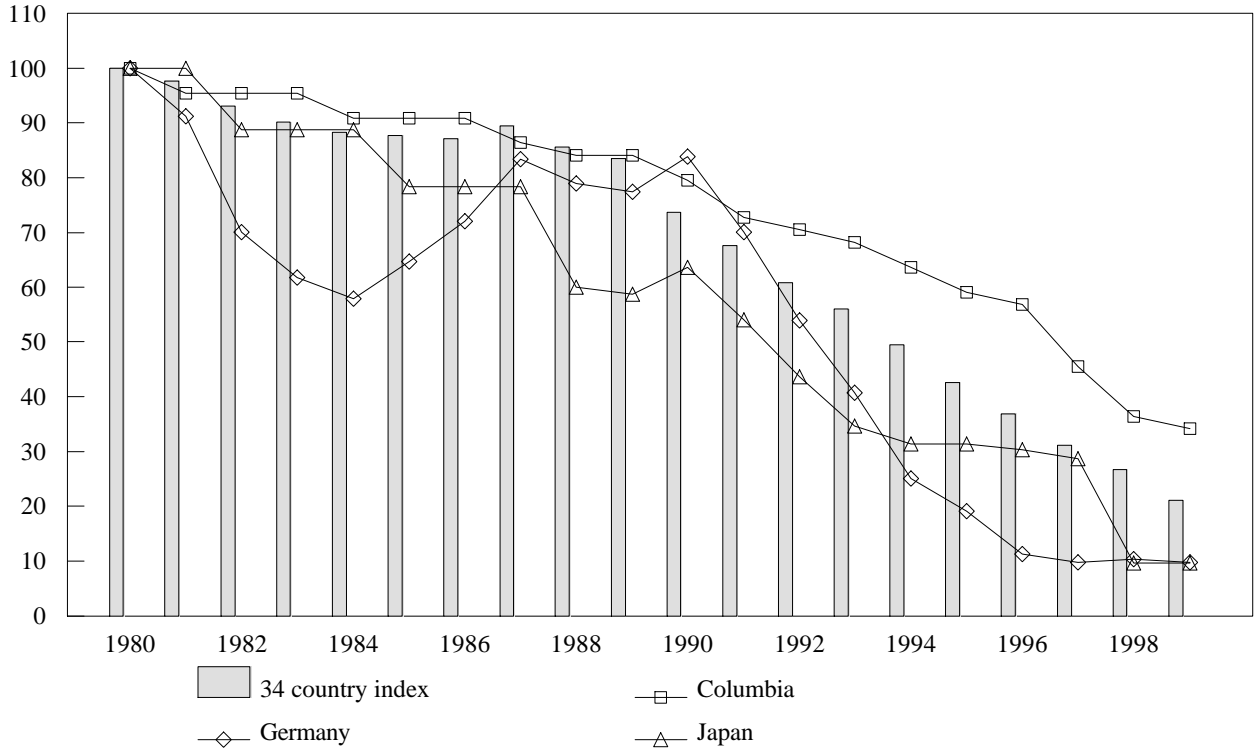
**Figure 29: Net Settlement Payments to Mexico, Germany, the Philippines, and Canada**



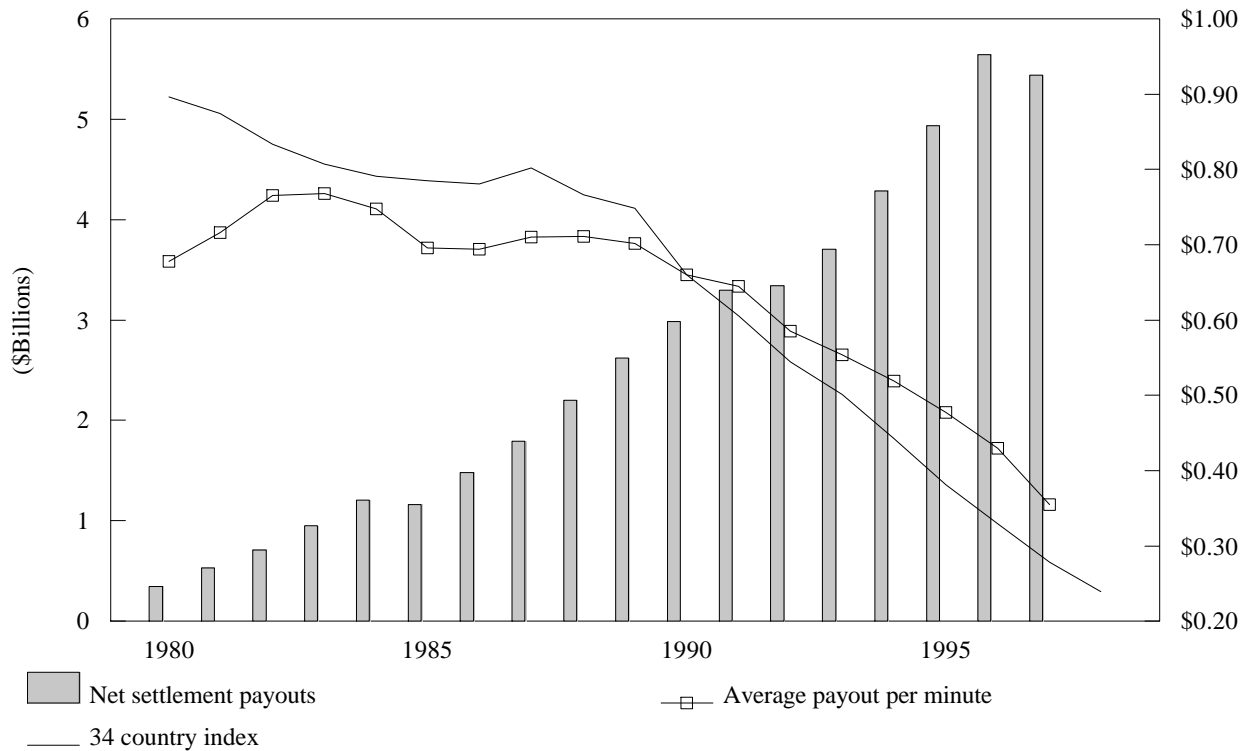
**Figure 30: Net Settlement Payments by Region of the World**



**Figure 31: Decline in Accounting Rates**



**Figure 32: Net Settlement Payouts Compared with Settlement Rates**



## Appendix A: Notes on the Data

Much of the data presented in this report is based on the figures reported in the annual volumes of *Statistics of Communications Common Carriers (SOCC)*. The *Manual for Filing Section 43.61 Data in accordance with the FCC's Rules and Regulations*, June 1995, provides directions for filing international traffic data. Many significant reporting changes have occurred over the years, and several adjustments have been made to make the time series more consistent. The most significant changes stem from the changing focus of the reporting requirements. Prior to 1990, the FCC collected data for overseas telecommunications. At one time, traffic to Alaska, Hawaii and Puerto Rico was classified as reportable overseas traffic, while traffic to foreign points such as Canada and Mexico was not reported. This classification arose from the fact that carriers used radio facilities for overseas traffic while they used terrestrial cable facilities to serve Canada and Mexico.

Since 1985, Hawaii, Alaska, the conterminous U.S. and Puerto Rico have been considered U.S. domestic points for reporting purposes. Carriers need not report data for traffic between any two domestic U.S. points. Starting in 1991, carriers must report all traffic for offshore U.S. points, such as Guam and Midway, and must include traffic between offshore U.S. points and all other U.S. points. Also in 1991, the FCC started systematically collecting traffic data for service to Canada, Mexico, and Saint Pierre and Miquelon. The current data requirements facilitate better tracking of the effects of settlement payments on the national balance of payments.

Several adjustments were made to published data so that the data presented in the report for recent years approximate totals for all international traffic. Traffic reported to Alaska, Hawaii, and Puerto Rico has been removed from the data presented in this publication for the years 1980 through 1984. AT&T voluntarily provided telephone traffic data for Canada and Mexico for 1978 through 1990. All carriers filed data beginning in 1991. Appendix B and Appendix C show the available telephone service traffic data for Canada and Mexico, respectively. Log-linear regression analysis with a dummy trend was used to estimate traffic carried by AT&T's competitors for 1985 through 1990. While very approximate, these estimates were used to construct industry total data shown in the report.

In addition to reclassifying international points, the FCC instituted other reporting changes in 1991. Service categories changed. Pure resale traffic was separated from facilities-based traffic to avoid double counting. The Commission changed the definition of minutes for reporting purposes. For facilities-based service, carriers now report the number of minutes upon which settlements are calculated. They formerly reported billing minutes. The settlement process is used by U.S. and foreign carriers to provide compensation for handling traffic for each other. Compensation is based on conversation minutes. Settlement minutes averaged 5% to 6% less than billed minutes for traffic billed in the United States for 1988 through 1990. Because carriers do not make settlement payments for their pure resale traffic, they continue to report resale data based on billing information.

In 1991, the FCC also changed the traffic categories for reporting purposes. Prior to 1991, carriers reported traffic originating in the United States, terminating in the United States and transiting the United States. Since 1991, the reporting categories are U.S. billed, foreign billed, and transiting traffic. **U.S. billed** traffic includes all traffic billed by U.S. carriers, and includes most calls that originate in the United States, calls that are placed collect or "caller toll free" to the United States, U.S. carrier "country-beyond" and "country-direct" calls, and U.S. reorigination traffic (definitions below). Prior to 1991, a collect call placed from a U.S. point could have been classified as originating traffic. Because these calls are billed by a carrier serving an international point, such traffic, however, now must be reported as foreign billed calls. **Foreign billed** traffic is all traffic billed by a foreign or correspondent carrier and includes most calls that originate in foreign points as well as

collect and "caller toll free" calls placed by U.S. customers to foreign points. Foreign billed calls do not necessarily originate in the country for which the traffic is reported. In some cases, foreign carriers reoriginate traffic for other foreign carriers. U.S. carriers may not know which calls originated in a country and which calls had originated in some third country and then been reoriginated by the foreign carrier that sent the calls to the United States. **Transiting** traffic is traffic that originates from an international point, is billed by a foreign or correspondent carrier, is routed through the U.S., and terminates at an international point. Transiting traffic is reported for the country in which the service is billed. Unlike reorigination traffic, transiting traffic is settled based on the settlement rate between the actual countries of origination and destination. To avoid confusion, this report uses the term "**U.S. traffic**" to refer to traffic originating in the United States through 1990, and traffic billed in the United States thereafter. Similarly, the term "**Foreign traffic**" refers to traffic originating in foreign points through 1990, and traffic billed by foreign carriers thereafter. Prior to 1991, many carriers classified traffic based on billing. Thus, the change in definitions may not have caused any significant changes in the data being reported.

**Reorigination traffic** is billed by a foreign carrier, transits a U.S. carriers facilities and terminates in a foreign point. Unlike traditional transiting arrangements, reorigination traffic is not settled pursuant to an accounting rate agreement between the originating and terminating carriers. Reorigination allows the foreign carrier to take advantage of the U.S. carrier's accounting rate agreement with the carrier in the terminating country. The U.S. carrier treats reorigination traffic like U.S. billed traffic when it settles with the carrier in the country of termination and reports this traffic as U.S. billed traffic for filing purposes.

During 1995, the Commission adopted a revised Section 43.61 international traffic data reporting manual. Beginning with the 1995 data filings, carriers were required to provide separate switched service and private line data for facilities-based and facilities-resale services (defined on page 6). Carriers also separately identified U.S. billed traffic originated in a foreign point via country-direct and country-beyond type services. **Country-direct and country-beyond services** are U.S. carrier offerings that allow customers in foreign locations to route calls through U.S. carrier facilities to reach the United States (country-direct) or any world point (country-beyond). Country-direct and country-beyond services rely on alternative billing arrangements, such as credit cards, and enable the customer in a foreign point to be served by a U.S. carrier rather than by a foreign carrier. Note that U.S. carriers or their affiliates may operate in foreign countries as foreign carriers. They do not report 43.61 traffic on calls that they carry from one foreign country to another unless they carry this traffic through a United States point. Finally, the revised manual clarified the treatment of discounts for reporting purposes.

Beginning with the 1997 data filings, carriers were required to separate switched services data by the financial arrangements made with carriers in foreign countries for terminating that traffic. Carriers now classify traffic as traditional settlement with proportionate return, international simple resale including traffic hubbed through an intermediate foreign country, and alternative settlement arrangements approved under Section 64.1002 of the Commission's rules. These arrangements are discussed below. Carriers continue to separately report facilities-based and facilities-resale private line services.

As explained above, carriers separately report international switched telephone, telegraph, telex, and miscellaneous services based on the financial termination arrangements. **Traditional Settlement** traffic is settled according to the Commission's International Settlements Policy (ISP). (See 47 C.F.R. Sections 43.51(e) & 64.1001.) The settlement is based on the accounting rate, which is part of a compensation agreement negotiated between a U.S. carrier and its foreign correspondent on a particular international route. The ISP requires nondiscriminatory accounting rates among U.S. carriers on a given route and that the U.S. carriers and its foreign correspondent share the accounting rate on a 50/50 basis. The ISP also requires that the U.S. carrier



agrees to accept no more than its proportionate share of return traffic from the foreign carrier.

**ISR/Hubbed** traffic is switched traffic that is routed and settled by the U.S. carrier outside the traditional settlement process and that may be carried over private lines that are interconnected to the public switched network on one or both ends of the private line. The Commission allows carriers to use ISR as a means to route U.S.-inbound traffic between the United States and a limited number of approved countries. In many cases, U.S. carriers exchange traffic with a carrier in an approved country and that carrier "hubs" the call, i.e. terminates the call in or from a third country under a traditional settlement agreement. See 47 C.F.R. Sec. 63.17.

**Alternative Settlement traffic** is settled under Commission approved agreements that may deviate from the ISP pursuant to Section 64.1002 of the rules. See 47 C.F.R. Sec. 64.1002. These are also referred to as "flexible-settlement" agreements.

Figure A-1 summarizes changes in reporting definitions over time. These changes may account for some of the year-to-year changes in the reported data. In addition, the data may contain reporting errors. For example, the 1987 SOCC contains inaccurate data for traffic to the United Kingdom because AT&T's Section 43.61 filing omitted foreign traffic for November and December. Corrected figures have been used in Table 23, which shows net settlement payments for telephone services to selected countries. The FCC's reporting requirements incorporate a threshold below which corrections need not be made. In addition, the complexity of the settlement process guarantees that some errors are only discovered or correctable after the carriers file their final Section 43.61 report for the year. While the data cannot be used to calculate precise year-to-year changes, the data provide a good indicator of industry trends. To compensate for changes in reporting over time, this report uses regression analysis to calculate growth rates. This ensures that data from the whole period, rather than just the end points, are considered in estimating trend growth rates. In addition, regression analysis permits the data to be divided into periods to evaluate whether trends have changed over time.

Complete technical information on current reporting requirements is contained in the *Manual for Filing Section 43.61 Data in accordance with the FCC's Rules and Regulations*, June 1995. Additional information on 1997 data is contained in the *Section 43.61 International Telecommunications Data* report for 1997.

Figure A-1

Reporting and Definition Changes Affecting SOCC International Traffic Statistics	
1.	The treatment of Hawaii and Puerto Rico traffic changed over time. Prior to 1985, Hawaii and Puerto Rico were classified as overseas points. Generally, traffic between the continental U.S. and Hawaii and Puerto Rico were included in SOCC tables through 1984. Where possible, these amounts have been removed from tables.
2.	The treatment of Alaska traffic changed over time. Alaska traffic was included for some years before 1968, and for 1981 through 1984. Where possible, Alaska data for 1981 through 1984 have been removed from tables.
3.	Starting in 1991, the international tables include traffic for all domestic U.S. points, including Alaska, Hawaii and Puerto Rico. (International traffic for offshore U.S. points is contained in the Section 43.61 International Telecommunications Data report.)
4.	Carriers did not report data for Saint Pierre and Miquelon, Canada or Mexico for 1968 through 1990. The 1980 through 1990 SOCC data presented in Table 1 and Table 2 have been adjusted

	to include estimates for telephone traffic with Canada and Mexico.
5.	U.S. traffic with the U.S. Virgin Islands was included in the international tables for 1980 through 1984, and then excluded for 1985 through 1990. U.S. traffic to other offshore U.S. points, such as Guam and Wake Island was included for 1980 through 1985, and then excluded from the country- by-country table for 1986 through 1990. Beginning with 1991, the traffic with non-domestic offshore U.S. points has been included in the statistical tables. Such traffic currently represents less than 1% of all international traffic for the United States.
6.	Maritime traffic was not explicitly included in some years through 1990. Starting in 1991, the SOCC tables include maritime traffic.
7.	Before divestiture, interexchange carriers such as MCI and Sprint did not provide international telephone services. Through 1984, the tables containing country-by-country international telephone traffic represented AT&T only.
8.	Prior to 1991, some switched service revenues, such as telephone service from offshore U.S. points, was classified as miscellaneous. In addition, some minor services, such as packet switching, were reported as miscellaneous. Carriers, however, were not required to report any data for some minor services.
9.	From 1985 through 1990, switched services data included both facilities- based and pure resale service. Starting in 1991, carriers must separate international facilities-based traffic from international pure resale traffic. Starting in 1995, carriers must also separate private line circuits offered over resold circuits (facilities-resale) from those offered over the carriers own circuits (facilities-based).
10.	Through 1984, carriers reported transiting traffic both by points of origin and destination. Thus, each transiting call would be counted twice.
11.	Through 1990, carriers were instructed to categorize traffic data by point of origin. Starting in 1991, carriers are instructed to categorize traffic based on where each call is billed. This may not represent a significant change, because many carriers reported traffic based on billing prior to 1991. In this report, the term "U.S. traffic" refers to traffic reported as originating in the U.S. through 1990, and traffic reported as billed in the U.S. thereafter. Similarly, the term "foreign traffic" refers to traffic reported as originating in foreign points through 1990, and traffic reported as billed to foreign points thereafter.
12.	Through 1990, carriers were instructed to report the number of billing minutes or billing words. Starting in 1991, facilities-based carriers report the number of minutes or words used for settlement purposes. Pure resale carriers continue to report the number of minutes used for billing purposes.

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|-----|--|
| 13. | Starting with 1995 filings, carriers were required to separate facilities-based data from facilities-resale data for switched services. This distinction was intended to separate International Simple Resale (ISR) traffic from settled traffic. In 1996, the Commission allowed carriers to offer ISR traffic using their own facilities. As a result, the Commission dropped the facilities-based / facilities-resale distinction for switched services in 1997, and instead required that carriers separate traffic by settlement arrangement: Traffic settled under traditional settlement with proportionate return arrangement; under international simple resale (ISR) including traffic hubbed through an intermediate foreign country arrangement; and, under an alternative settlement arrangement. |
| 14. | Starting with 1995 filings, carriers were required to separate country-direct, country-beyond, hubbing and reorigination traffic from other types of traffic in non-public filings.  |

Both the Bureau of Economic Analysis (BEA), U.S. Department of Commerce and the Federal Communications Commission (FCC) collect data on settlement payments and receipts. The FCC figures are used to monitor U.S. carriers, while the BEA data are used to monitor the balance of payments. As a result, there are significant differences in the reporting requirements imposed by these agencies.

In recent years, the Section 43.61 reports have shown greater U.S. carrier payments to foreign entities than do the BEA estimates. The BEA figures, however, show greater U.S. carrier receipts. It is not clear whether reporting differences explain most or all of the differences in reported data. Some factors would tend to make the FCC figures higher. For example, carrier's settlement receipts and payments lag the date when traffic is actually provided. The FCC requests payments and receipts when accrued -- that is, at the time service was provided. The BEA requests that carriers file actual payments and receipts made during the calendar year. Because settlement payments are often made long after the calls were made, and because traffic has been growing rapidly, the settlements owed during a year tend to be greater than the settlements made during the year. This means that carriers would tend to report higher settlement receipts and payments in their Section 43.61 annual reports than in their BEA annual reports. Also, Section 43.61 reports include settlement payments between U.S. carriers and their foreign affiliates. The BEA statistics exclude such payments. Other reporting differences, however, would tend to make the BEA figures higher. For example, the carrier reports to BEA include inter-carrier payments for private line, enhanced service, and support service receipts. U.S. carrier payments to Intelsat are also included. All of these types of payments would not be included in Section 43.61 reports. In 1991, the last benchmark survey, enhanced services represented 2.8% of settlement receipts and 0.3% of payments.

The timing differences explained above and the fact that the BEA excludes payments to affiliates may be responsible for this difference. The BEA figures, however, include some payments, such as payments to Intelsat, which should offset some or all of the difference. The data differences are summarized in Figure A-2 below:

Figure A-2

Differences Between Section 43.61 Data and BEA International Data	
Section 43.61 International Traffic Data	BEA Telecommunications Payments and Receipts
Messages, minutes, billed revenues, and settlement payments and receipts.	Settlement payments and receipts.

Covers basic telecommunications services (telephone, telex, telegraph, private line and miscellaneous).	Covers basic telecommunications service, enhanced or value added services, and telecommunications support services (such as maintaining earth stations located in foreign points).
Includes payments between U.S. carriers and their foreign affiliates.	Excludes payments between U.S. carriers and their foreign affiliates, although these can be estimated from other data filed with BEA.
Carriers are asked to report payments and receipts when accrued -- that is, at the time service was provided, regardless of when the settlements were actually made.	Carriers are asked to file settlement payments and receipts actually made during the year, regardless of whether or not the service was provided during the year.
Includes payments and receipts for traffic that transits a U.S. point, but excludes receipts or payments for exclusively foreign services such as circuit capacity provided to foreign carriers.	Includes payments and receipts for traffic that transits U.S. points and also payments and receipts for foreign services.
U.S. carriers report the private line revenue billed on their behalf as revenue, rather than as settlement receipts. They do not report the revenue that they bill on behalf of foreign carriers as either revenue or settlement payments.	U.S. carriers report both the private line revenue they bill on behalf of foreign carriers and payments to Intelsat as payments. They report private line revenue billed on their behalf by foreign carriers as settlement receipts.
U.S. carriers report their billings to foreign addresses as U.S. billed revenue.	Carriers are asked to report their billings to foreign addresses as settlement receipts.
All carriers with revenue in the reporting year are required to file preliminary data on the following July 31 and final traffic data on October 31.	All carriers with payments or receipts greater than \$500,000 are required to file data on March 31 of the following year for publication in June. Revisions are typically made the following June.

Appendix B: International Telephone Traffic with Canada

**AT&T Traffic with Canada**  
(All figures are shown in thousands)

	U.S. Traffic					Foreign Traffic			Transiting Traffic			Total Retained Revenue
	Number of Messages	Number of Minutes	AT&T Billed Revenue	Payout to PTT	Retained Revenue	Number of Messages	Number of Minutes	Receipts from PTT	Receipts from PTT	Payout to PTT	Retained Revenue	
1978	71,564	479,479 <u>1/</u>	\$222,432	\$86,835	\$135,597	67,143	447,172 <u>1/</u>	\$84,790				\$220,387
1979	78,277	524,456 <u>1/</u>	245,409	95,710	149,699	75,420	502,297 <u>1/</u>	95,878				245,577
1980	85,198	570,827 <u>1/</u>	270,986	105,685	165,301	85,475	569,264 <u>1/</u>	109,393				274,694
1981	96,712	647,970 <u>1/</u>	321,221	125,402	195,819	94,483	629,257 <u>1/</u>	126,486				322,306
1982	101,708	681,444 <u>1/</u>	346,511	171,547	174,964	95,830	638,228 <u>1/</u>	152,594				327,558
1983	113,098	757,757 <u>1/</u>	394,002	195,031	198,971	108,880	725,141	163,674				362,645
1984	122,202	814,035	386,207	191,199	195,008	116,160	775,990	168,775				363,783
1985	128,220	832,857	374,915	185,583	189,332	127,870	845,430	177,490				366,822
1986	141,667	881,737	394,510	195,302	199,208	146,099	941,172	194,040				393,248
1987	146,465	874,797	404,183	215,057	189,126	157,682	932,211	234,375				423,500
1988	145,136	859,975	422,241	216,044	206,197	149,805	838,726	216,320				422,517
1989	159,444	943,550	485,209	237,882	247,327	159,130	893,821	233,197				480,524
1990	168,198	1,115,719	481,973	201,257	280,716	167,399	953,624	200,839				481,554
1991 <u>3/</u>	244,046	1,295,006	539,774	207,384	332,390	188,101	1,048,330	141,045	192	33	159	473,594
1992 <u>3/</u>	268,798	1,394,018	523,953	209,494	314,459	195,770	1,113,680	154,256	502	62	439	469,154
1993 <u>3/</u>	292,569	1,426,374	592,024	220,455	371,569	196,975	1,040,509	165,421	581	121	460	537,450
1994 <u>3/</u>	332,920	1,569,970	593,412	214,647	378,765	203,123	1,024,155	142,993	164	13	151	521,910
1995 <u>3/</u>	351,558	1,639,955	624,460	188,557	435,903	231,141	1,135,739	138,450	541	125	417	574,770
1996 <u>3/</u>	385,290	1,775,125	620,973	179,836	441,137	274,410	1,213,454	129,228	819	260	559	570,924
1997 <u>3/</u>	441,396	1,989,417	700,968	185,607	515,361	301,470	1,367,807	120,636	505	64	441	636,438

**All Reporting U.S. Carriers Traffic with Canada**  
(All figures are shown in thousands)

	U.S. Traffic					Foreign Traffic			Transiting Traffic			Total Retained Revenue
	Number of Messages	Number of Minutes	Total Billed Revenue	Payout to PTT	Retained Revenue	Number of Messages	Number of Minutes	Receipts from PTT	Receipts from PTT	Payout to PTT	Retained Revenue	
1985 <u>2/</u>	141,101	916,525	412,578	204,226	208,352	127,870	845,430	177,490				385,842
1986 <u>2/</u>	170,392	1,060,522	474,503	234,902	239,600	146,099	941,172	194,040				433,640
1987 <u>2/</u>	194,470	1,161,519	536,657	285,544	251,113	172,109	1,017,503	255,818				506,932
1988 <u>2/</u>	214,163	1,268,981	623,060	318,795	304,265	181,567	1,016,554	262,184				566,449
1989 <u>2/</u>	251,935	1,490,894	766,674	375,875	390,799	208,668	1,172,073	305,792				696,591
1990 <u>2/</u>	274,274	1,819,362	785,936	328,183	457,753	235,379	1,340,888	282,399				740,152
1991 <u>3/</u>	397,515	1,950,892	799,700	303,742	495,958	256,996	1,420,585	190,664	193	33	160	686,782
1992 <u>3/</u>	482,780	2,226,372	871,459	329,361	542,098	269,419	1,512,091	207,846	995	62	933	750,877
1993 <u>3/</u>	570,345	2,493,082	1,026,218	372,936	653,283	309,134	1,604,887	241,726	1,085	121	964	895,963
1994 <u>3/</u>	644,101	2,786,577	990,991	378,475	612,515	362,609	1,800,084	241,392	468	19	450	854,357
1995 <u>3/</u>	720,920	3,049,270	1,039,776	349,090	690,686	409,702	2,067,288	223,056	783	125	658	914,400
1996 <u>3/</u>	800,139	3,462,490	1,018,774	345,873	672,900	637,468	2,845,791	244,920	1,597	260	1,337	919,157
1997 <u>3/</u>	902,983	3,921,401	1,202,676	322,096	880,579	727,004	3,145,541	246,402	3,276	64	3,212	1,130,193

1/ For 1978 through 1983, U.S. and foreign minutes for Canada were estimated as 6.7 times the number of messages.

2/ For 1985 through 1990 traffic for other carriers was estimated by fitting a log linear trend to 1978 through 1992 minutes data, with a dummy trend representing traffic carried by non-reporting competitors. Messages and revenues were estimated by using per minute ratios derived from AT&T data.

3/ Starting with 1991, data for AT&T are taken from annual editions of *Section 43.61 International Telecommunications Data* and data for all carriers are taken from annual volumes of *Statistics of Communications Common Carriers*.

Appendix C: International Telephone Traffic with Mexico

**AT&T Traffic with Mexico**  
(All figures are shown in thousands)

	U.S. Traffic					Foreign Traffic			Transiting Traffic			Total Retained Revenue
	Number of Messages	Number of Minutes	AT&T Billed Revenue	Payout to PTT	Retained Revenue	Number of Messages	Number of Minutes	Receipts from PTT	Receipts from PTT	Payout to PTT	Retained Revenue	
1978	17,049	122,751	112,149	85,081	27,068	10,745	62,320	25,012				52,080
1979	21,629	155,729	186,243	115,623	70,620	14,303	82,956	32,909				103,529
1980	26,067	187,682	220,700	123,800	96,900	18,441	106,955	39,270				136,170
1981	29,795	214,523	294,685	212,222	82,463	22,410	129,977	53,250				135,712
1982	36,397	251,849	317,039	244,997	72,042	25,833	155,623	53,102				125,144
1983	39,333	294,297	334,522	246,248	88,274	26,680	144,462	44,818				133,092
1984	41,722	307,022	361,378	268,204	93,174	24,916	147,083	49,819				142,993
1985	45,644	336,117	381,354	276,185	105,169	30,351	170,015	54,096				159,265
1986	52,230	392,755	442,383	301,728	140,655	34,134	185,656	54,584				195,239
1987	59,510	450,713	499,511	372,726	126,785	36,633	188,675	60,176				186,961
1988	77,024	561,937	639,361	480,107	159,254	47,701	239,364	69,242				228,496
1989	97,440	702,468	762,037	626,633	135,404	60,794	306,412	92,736				228,140
1990	114,362	823,553	837,517	680,084	157,433	72,466	361,706	106,554				263,987
1991	3/ 105,284	788,544	803,038	590,895	212,144	77,208	375,169	105,439	2,664	1,384	1,280	318,863
1992	3/ 133,989	940,340	901,752	633,519	268,233	98,654	440,351	116,900	3,772	2,021	1,751	386,883
1993	3/ 144,640	960,035	989,944	653,779	336,165	107,371	476,210	127,207	8,889	2,944	5,942	469,314
1994	3/ 158,505	1,061,620	1,066,290	686,249	380,041	118,955	517,944	137,911	7,623	7,231	392	518,344
1995	3/ 173,458	1,292,895	1,141,095	723,917	417,179	122,402	527,604	155,418	5,966	2,615	3,351	575,948
1996	3/ 201,866	1,489,546	1,217,264	739,351	477,913	144,038	589,922	193,993	3,299	1,218	2,081	673,987
1997	3/ 221,380	1,575,449	1,094,893	637,295	457,599	132,988	527,864	242,298	12,072	8,785	3,287	703,184

**All Reporting U.S. Carriers Traffic with Mexico**  
(All figures are shown in thousands)

	U.S. Traffic					Foreign Traffic			Transiting Traffic			Total Retained Revenue
	Number of Messages	Number of Minutes	Total Billed Revenue	Payout to PTT	Retained Revenue	Number of Messages	Number of Minutes	Receipts from PTT	Receipts from PTT	Payout to PTT	Retained Revenue	
1985	2/ 47,415	349,157	396,149	286,900	109,249	32,631	182,785	58,159				167,408
1986	2/ 56,236	422,878	476,313	324,870	151,443	39,386	214,226	62,983				214,426
1987	2/ 66,402	502,907	557,356	415,889	141,467	45,945	236,633	75,472				216,939
1988	2/ 88,043	642,332	730,833	548,795	182,038	61,967	310,948	89,950				271,988
1989	2/ 110,537	796,889	864,464	710,860	153,604	77,198	389,093	117,760				271,364
1990	2/ 129,761	934,446	950,290	771,658	178,632	91,599	457,204	134,686				313,318
1991	3/ 147,144	1,038,226	1,024,086	743,223	280,863	93,437	468,266	128,671	2,741	1,384	1,357	410,891
1992	3/ 190,045	1,277,226	1,216,942	835,517	381,426	137,362	608,649	156,494	4,121	2,021	2,100	540,020
1993	3/ 217,361	1,398,807	1,399,855	903,602	496,253	148,407	676,214	177,217	9,308	2,944	6,364	679,834
1994	3/ 253,475	1,656,171	1,547,714	1,014,704	533,010	173,613	748,753	195,115	7,962	7,231	731	728,856
1995	3/ 290,151	2,012,183	1,700,765	1,124,339	576,426	195,107	835,660	248,653	7,904	3,937	3,967	829,046
1996	3/ 333,163	2,380,830	1,772,136	1,194,686	577,451	230,470	948,077	316,435	4,502	1,218	3,284	897,170
1997	3/ 381,400	2,766,419	1,849,892	1,122,663	727,229	235,681	942,137	412,370	15,834	8,785	7,048	1,146,647

- 1/ For 1978 through 1981, U.S. minutes for Mexico were estimated as 6.2 times messages, while foreign minutes were estimated as 5.8 times messages.
- 2/ For 1985 through 1990 traffic for other carriers was estimated by fitting a log linear trend to 1979 through 1992 minutes data, with a dummy trend representing traffic carried by non-reporting competitors. Messages and revenues were estimated by using per minute ratios derived from AT&T data.
- 3/ Starting with 1991, data for AT&T are taken from annual editions of *Section 43.61 International Telecommunications Data* and data for all carriers are taken from annual volumes of *Statistics of Communications Common Carriers*.

## Appendix D: Sources of Additional Information

This report can be downloaded from the **FCC-State Link** internet site at <http://www.fcc.gov.ccb/stats> on the World Wide Web. The FCC-State Link also contains information on the domestic telecommunications industry.

Printed copies of statistical reports are available for reference in the FCC's Reference Information Center, Courtyard Level, 445 12th Street SW, Washington, D.C., 20554 (202) 418-0270. Copies may also be obtained from the Commission's duplicating contractor, International Transcription Services, Inc. (ITS), (202) 857-3800.

Additional information on accounting rates, settlement payments, international circuit capacity and international policies can be obtained from the FCC's International Bureau (202) 418-1460 and on the World Wide Web at <http://www.fcc.gov/ib>. A comparison of accounting rates for U.S., United Kingdom and New Zealand carriers is provided at <http://www.fcc.gov/ib/td/pf/ukrates.html>. Country-by-country U.S. IMTS Net Settlement Payments, 1985-1997 are now available at <http://www.fcc.gov/ib/td/pf/nsp.xls>.

Information from the Bureau of Economic Analysis, (202) 606-9700, can be found on the World Wide Web at <http://www.bea.doc.gov>.

Information from the United States Census Bureau, (301) 457-4100, can be found on the World Wide Web at <http://www.census.gov>.

Additional information on consumer price indexes can be obtained from the U.S. Department of Labor, Bureau of Labor Statistics, (202) 606-7102, and on the World Wide Web at <http://stats.bls.gov>.

Additional information on Global Telecommunications Traffic Statistics can be obtained from TeleGeography, (202) 467-0017, and on the World Wide Web at <http://www.telegeography.com>.