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March 31, 1999

FCC RELEASES REPORT ON LONG DISTANCE MARKET

The FCC has released a staff report entitled Long Distance Market Shares. The report summarizes publicly available data on long distance market shares.

Total toll revenues earned by long distance carriers have increased consistently since 1984. According to revenues reported to the FCC by carriers, AT&T's share of long distance carrier toll revenues fell from 90% in 1984 to slightly less than half the market in 1997. MCIWorldCom and Sprint now account for about one third of the long distance market. The market shares of smaller carriers grew even faster, increasing from 3% to 20% during that same period of time.

Switched access minutes have also increased consistently since 1984. With smaller carriers access minutes growing faster than AT&T's access minutes, AT&T's share of the overall market for interstate switched minutes declined from over 80% in late 1984 to under 52% in the fourth quarter of 1998.

In addition to information on revenues and minutes, the report contains information on international revenues, residential revenues, and presubscribed lines.

The report is available for reference in the Common Carrier Bureau Public Reference Room, 1919 M Street N.W., Room 222. Copies may be purchased by calling International Transcription Services, Inc. (ITS) at (202) 857-3800. The report can be downloaded [file name: MKSH4Q98.ZIP] from the FCC-State Link internet site at http://www.fcc.gov/ccb/stats on the World Wide Web.

-FCC-

For additional information, contact James Zolnierek, Katie Rangos, or James Eisner of the Common Carrier Bureau's Industry Analysis Division, (202) 418-0940, or for users of TTY equipment, call (202) 418-0484.

LONG DISTANCE MARKET SHARES FOURTH QUARTER 1998

James Zolnierek Katie Rangos James Eisner

Industry Analysis Division
Common Carrier Bureau
Federal Communications Commission
March 1999



This report is available for reference in the Common Carrier Bureau's Public Reference Room, 1919 M Street, N.W., Room 222. Copies may be purchased by calling International Transcription Services, Inc. (ITS) at (202) 857-3800. The report can be downloaded [file name: MKSH4Q98.ZIP] from the FCC-State Link internet site at http://www.fcc.gov/ccb/stats on the World Wide Web.

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LONG DISTANCE MARKET SHARES

This report presents information on access minutes, presubscribed lines, and revenues for long distance telephone companies. Company shares of the long distance market are presented for each measure. Market shares are also reported according to each measure for the residential long distance market, and according to revenues for the international long distance market.

1. INTERSTATE CALLING MINUTES

"Switched access minutes" provide one measure of the volume of traffic carried on the public switched telephone network. Long distance telephone companies ordinarily access the distribution networks of local telephone companies at both ends of long distance calls. Access minutes are a measure of the number of minutes that long distance companies need to access local lines in order to complete long distance calls for their customers. For each conversation minute of a long distance call there are typically two access minutes, one on the originating end and one on the terminating end. Access minutes on the originating end are measured from the time the call is delivered to the caller's long distance carrier. On the terminating end, usage is measured from the time the call is received by the called party. Timing of usage at both ends of a call terminates when either the calling or called party disconnects.

Column 1 of Table 1.1 shows total interstate, including international, switched access minutes reported for all long distance carriers by the National Exchange Carrier Association (NECA).² Interstate calling has grown steadily, with access minutes more than tripling, since this information was first measured in the third quarter of 1984.

Terminating access minutes, which do not include dialing and call set up time, closely approximate long distance conversation minutes.³ Table 1.1 Column 2 shows the number of terminating switched interstate access minutes reported for all long distance carriers by NECA since terminating minutes were first reported separately in 1986. Terminating access minutes have tripled in this time.

Columns 3 and 4 of Table 1.1 show AT&T's reported total and terminating access minutes.⁴ Columns 5 and 6 show AT&T's market shares of total and terminating access minutes. Since mid-1984, AT&T's traffic has grown at a rate slower than the industry average. AT&T's minutes have doubled during that period while the minutes for other carriers increased more than ten-fold. As a result AT&T's share of long distance access minutes has decreased 40%.

¹800 and 888 calls only generate originating access minutes, which are billed, somewhat confusingly, at the rate normally charged for terminating minutes. WATS calls generate only terminating access minutes. International calls only generate originating access minutes when exiting the United States and only terminating access minutes when entering the United States. Access minutes are not measured for calls made on private telecommunications systems and on leased lines.

²NECA reports information on switched access minutes March 15, June 15, September 15, and December 15 each year. NECA revises estimates of total industry minutes as additional information is received.

³Terminating minutes do not equal conversation minutes because terminating minutes for international calls exiting the United States are not counted and terminating minutes for some personal 800 numbers are counted twice.

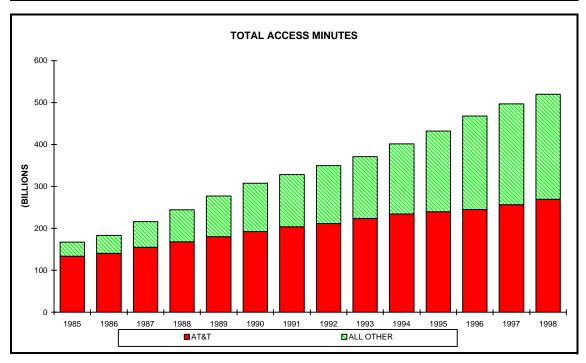
⁴AT&T also files information on its switched minutes on March 15, June 15, September 15, and December 15 each year. AT&T includes the access minutes it sells to other carriers in its counts.

TABLE 1.1 - INTERSTATE SWITCHED ACCESS MINUTES (FIGURES SHOWN IN BILLIONS)

	TOTAL	INDUSTRY	l l	AT&T	AT&T'S S	HARE OF
	ACCESS MINUTES	TERMINATING MINUTES	ACCESS MINUTES	TERMINATING MINUTES	ACCESS MINUTES	TERMINATING MINUTES
4004 THIRD OHADTED		WIII401E3				WINGTES
1984 THIRD QUARTER FOURTH QUARTER	37.5 39.6		31.6 31.8	18.1 18.2	84.2 % 80.2	
1985 FIRST QUARTER SECOND QUARTER THIRD QUARTER	39.6 41.5 42.8		32.8 33.3 33.8	19.0 19.2 19.4	83.0 80.3 78.9	
FOURTH QUARTER TOTAL 1985	43.3 167.1		33.4 133.3	19.2 77.0	77.1 79.8	
1986 FIRST QUARTER SECOND QUARTER THIRD QUARTER FOURTH QUARTER TOTAL 1986	43.0 44.8 46.7 48.5 183.1	26.7 27.6	34.2 34.7 35.8 35.9 140.6	19.9 20.2 20.7 20.6 81.5	79.5 77.5 76.6 74.0 76.8	77.7 % 74.7
1987 FIRST QUARTER SECOND QUARTER THIRD QUARTER FOURTH QUARTER TOTAL 1987	51.2	28.9	37.4	21.4	72.9	74.2
	52.5	29.7	38.6	22.1	73.7	74.2
	55.0	30.9	39.2	22.3	71.2	72.1
	57.0	32.3	40.1	22.6	70.4	70.1
	215.7	121.8	155.3	88.4	72.0	72.6
1988 FIRST QUARTER SECOND QUARTER THIRD QUARTER FOURTH QUARTER TOTAL 1988	59.0	33.4	41.2	23.3	69.8	69.9
	59.6	33.6	41.1	23.0	69.0	68.5
	62.1	34.9	42.3	23.6	68.2	67.6
	64.0	35.9	43.0	23.6	67.2	65.8
	244.6	137.8	167.6	93.6	68.5	67.9
1989 FIRST QUARTER SECOND QUARTER THIRD QUARTER FOURTH QUARTER TOTAL 1989	66.2	37.3	44.2	24.5	66.8	65.7
	68.5	38.1	44.4	24.5	64.8	64.4
	69.7	38.6	44.9	24.7	64.4	64.1
	72.6	40.0	46.4	25.3	63.9	63.3
	277.1	153.9	179.9	99.0	64.9	64.3
1990 FIRST QUARTER SECOND QUARTER THIRD QUARTER FOURTH QUARTER TOTAL 1990	74.7	41.2	47.1	25.8	63.0	62.5
	75.8	41.9	47.1	25.7	62.1	61.5
	77.9	43.4	48.7	26.4	62.5	60.9
	79.1	43.1	49.8	27.8	63.0	64.5
	307.4	169.6	192.6	105.8	62.6	62.4
1991 FIRST QUARTER SECOND QUARTER THIRD QUARTER FOURTH QUARTER TOTAL 1991	79.2	43.4	49.9	27.1	63.0	62.4
	81.9	44.9	50.5	26.8	61.7	59.6
	82.6	45.1	51.2	27.1	61.9	60.1
	84.4	46.4	52.4	27.9	62.1	60.0
	328.0	179.8	204.0	108.8	62.2	60.5
1992 FIRST QUARTER SECOND QUARTER THIRD QUARTER FOURTH QUARTER TOTAL 1992	85.6	47.7	53.3	28.6	62.2	59.9
	86.5	48.2	51.9	27.9	60.0	57.8
	87.9	49.1	53.0	28.4	60.3	57.9
	89.8	50.4	53.5	28.8	59.7	57.1
	349.7	195.4	211.7	113.6	60.5	58.2
1993 FIRST QUARTER SECOND QUARTER THIRD QUARTER FOURTH QUARTER TOTAL 1993	90.6	51.0	55.5	29.7	61.3	58.1
	91.2	51.9	55.0	29.9	60.3	57.6
	93.6	54.8	56.3	31.4	60.2	57.2
	95.9	56.4	56.8	31.9	59.3	56.6
	371.2	214.1	223.6	122.8	60.2	57.4

TABLE 1.1 - INTERSTATE SWITCHED ACCESS MINUTES (CONT'D) (FIGURES SHOWN IN BILLIONS)

		L INDUSTRY		AT&T		SHARE OF
	ACCESS	TERMINATING	ACCESS	TERMINATING	ACCESS	TERMINATING
	MINUTES	MINUTES	MINUTES	MINUTES	MINUTES	MINUTES
1994 FIRST QUARTER	98.7	58.2	59.0	31.4	59.8 %	53.9 %
SECOND QUARTER	97.9	58.3	57.7	31.1	59.0	53.3
THIRD QUARTER	101.9	60.9	58.5	32.6	57.4	53.5
FOURTH QUARTER	102.9	62.0	59.5	33.3	57.9	53.6
TOTAL 1994	401.4	239.4	234.7	128.3	58.5	53.6
1995 FIRST QUARTER	105.6	63.8	59.9	33.6	56.7	52.7
SECOND QUARTER	106.8	64.7	59.3	33.5	55.5	51.8
THIRD QUARTER	109.0	66.7	59.8	34.4	54.8	51.6
FOURTH QUARTER	110.6	67.5	60.8	34.6	55.0	51.2
TOTAL 1995	431.9	262.7	239.8	136.1	55.5	51.8
1996 FIRST QUARTER	115.7	71.2	62.4	35.9	54.0	50.5
SECOND QUARTER	114.7	71.5	60.2	35.1	52.4	49.0
THIRD QUARTER	117.5	73.9	60.7	35.5	51.6	48.1
FOURTH QUARTER	120.2	76.2	61.7	35.6	51.3	46.8
TOTAL 1996	468.1	292.8	244.9	142.1	52.3	48.6
1997 FIRST QUARTER	122.1	76.6	63.9	37.1	52.3	48.5
SECOND QUARTER	124.4	79.2	63.2	37.1	50.8	46.8
THIRD QUARTER	124.9	79.2	65.3	38.6	52.3	48.7
FOURTH QUARTER	125.8	80.4	64.1	37.4	50.9	46.5
TOTAL 1997	497.3	315.4	256.5	150.2	51.6	47.6
1998 FIRST QUARTER	124.0	79.7	65.9	39.1	53.2	49.0
SECOND QUARTER	131.4	84.6	67.0	37.6	51.0	44.4
THIRD QUARTER	131.9	85.5	68.4	39.0	51.9	45.6
FOURTH QUARTER	132.8	86.0	68.4	38.7	51.5	45.0
TOTAL 1998	520.1	335.9	269.8	154.3	51.9	45.9



2. PRESUBSCRIBED LINES

A telephone line is said to be presubscribed to the long distance carrier that receives the ordinary long distance calls placed on that line. In areas where equal access is available (areas now covering more than 99% of the nation's lines), customers may choose a long distance carrier. Thereafter, all of the customer's long distance calls are routed to the chosen carrier unless the customer alters normal dialing procedure. For example, the customer might dial a special code to reach an alternate long distance carrier. In areas where equal access is not yet available, all lines are considered presubscribed to AT&T. By the end of 1996, more than 600 companies were providing long distance service to their own presubscribed customers.

Information on the number of lines presubscribed to each long distance carrier was collected by NECA because FCC rules required NECA to recover certain expenses from the larger long distance carriers. A long distance carrier "qualified" for paying these expenses if the number of lines presubscribed to the carrier equaled or exceeded .05% of the nation's presubscribed lines. NECA filed information semi-annually with the Commission. This information is summarized in Table 2.1. Following passage of the Telecommunications Act of 1996, the FCC changed its rules on universal service. At the end of 1996, NECA stopped collecting the presubscribed line data used in this report. As a result, information for December 1996 is the last presubscribed line data collected by NECA.

As of December 1996, NECA reported 158.7 million presubscribed lines in the United States. Special access lines, WATS lines, 800 lines, and other specialized lines are not included in the counts of presubscribed lines. In addition, there are some customers who decide not to choose a long distance carrier and some customers who have toll-restricted lines. Those lines are also not in the count of presubscribed lines.

Table 2.2 lists the market share of presubscribed lines for the top four long distance carriers individually and a composite market share for all other carriers. As of year end 1996, about 63% of the nation's lines were presubscribed to AT&T, 15% to MCI, 7% to Sprint, and 3% to WorldCom.

In recent years, many incumbent local exchange carriers (ILECs) have entered the long distance market. Table 2.3 shows the number of ILECs with presubscribed lines in their own service areas, the number of study areas in which serving ILECs have presubscribed lines, and the ILECs' share of presubscribed lines in these areas.⁵ The number of lines presubscribed for long distance service to ILECs in their own service areas has increased approximately 400 percent from year-end 1989 to year-end 1996, and the number of study areas in which ILECs provide interLATA long distance service has increased over 1,000 percent, for the same time period. In 1996, GTE began to offer long distance service. As a result, by the end of 1996 the number of lines located in areas where a customer could select a long distance carrier affiliated with the local telephone company increased to more than 30 million.

Table 2.4 shows the distribution of ILECs providing long distance service by the number of their own study areas in which they provided service. In 1989, only one ILEC provided long distance service in three or more of its study areas. By year-end 1996, this number had increased to six. These six ILECs provided long distance service in 186 study areas.

⁵A study area is a local exchange carrier's operations in a given state.

TABLE 2.1 - PRESUBSCRIBED TELEPHONE LINES BY CARRIER

	DEC 96	JUNE 96	DEC 95	JUNE 95	DEC 94	JUNE 94
TOTAL NUMBER OF CARRIERS WITH PRESUBSCRIBED LINES	621	582	583	549	511	454
TOTAL NUMBER OF QUALIFYING CARRIERS TOTAL NUMBER OF NON-QUALIFYING CARRIERS	45 576	43 539	44 539	36 513	35 476	29 425
QUALIFYING COMPANIES 1/						
AT&T COMPANIES: AT&T COMMUNICATIONS AT&T ALASCOM, INC. 2/ MCI TELECOMMUNICATIONS CORP. SOUTHERNET TELECOM*USA	100,177,257 224,192 22,938,608	99,599,355 222,144 24,338,086	101,138,792 218,135 23,911,437	102,502,271 232,525 23,459,534	103,957,425 226,974 22,040,062	102,421,583 222,142 22,286,410
TELECONNECT SPRINT LA CONEXION FAMILIAR, INC.	11,788,717	10,905,940	9,784,388	9,589,788	9,467,999	9,244,159
LONG DISTANCE/USA WORLDCOM 3/ ADVANCED TELECOM CORP. (ATC) AMERICAN NETWORK CLAYDESTA DIGITAL COM SYSTEMS DBA SUN DIAL ITT	4,297,498	4,110,753	4,088,816	3,683,433	1,954,198	1,831,304
METROMEDIA MICROTEL MID-AMERICAN NATIONAL TELECOMMUNICATIONS NTS (NATIONAL TELEPHONE SYSTEMS) TELUS/TELTEC SAVING TOUCH-1 LONG DISTANCE WILTEL 4/					320,571 960,004	161,143 677,430
MFS INTELENET, INC. EXCEL TELECOMMUNICATIONS, INC. LCI COMPANIES:	211,085 3,792,171	177,648 3,313,287	106,489 1,486,953	223,235	75,543	011,100
LCI INTERNATIONAL/LITEL 5/ LCI CORPORATE TELEMANAGEMENT GROUP	2,244,192	1,965,532	1,227,925 85,868	840,968	638,464	614,937
LCI/US SIGNAL CORP. 6/ FRONTIER COMPANIES: 7/	2,050,019	2,097,182	128,305 2,348,301	121,445	114,026	
FRONTIER dba ALLNET COMM. SVC., INC. 8/ FRONTIER COMMUNICATIONS INT'L 9/ FRONTIER COMM-NORTH CENTRAL REGION 10/ FRONTIER OF THE GREAT LAKES 11/ FRONTIER OF THE WEST 12/	(1,334,100) (488,074) (134,721) (93,124)	(441,493) (150,661)	(1,548,658) (436,609) (161,242) (95,633) (106,159)	1,650,296 365,841 154,038 88,043 133,300	1,334,360 283,372 132,946 84,141 137,489	1,078,577 278,542 80,573 144,240
SNET AMERICA LONG DISTANCE GTE LONG DISTANCE CO.	783,135 733,558	597,251 169,609	304,391	223,844	105,855	
CABLE & WIRELESS COMMUNICATIONS TELEFONICA LARGA DISTANCIA U.S. LONG DISTANCE/ZERO PLUS UNITED TELEPHONE LONG DISTANCE TOUCH 1 COMMUNICATIONS	625,367 470,267 356,932 289,380 209,905	584,802 458,783 276,153 471,687 149,392	543,617 452,017 212,611 517,379 134,779	524,014 444,205 149,308 545,189 108,550	524,153 441,467 116,602 572,010	537,919 446,390 612,991
CITIZENS TELECOM LONG DISTANCE SAVERS BUSINESS TELECOM , INC. (BTI) INTER CONTINENTAL TELEPHONE L.D. SERVICES, INC. COASTAL TELEPHONE COMPANY	206,698 185,247 177,423 160,084 143,601 141,358	141,636 170,359 171,239 117,780 116,239 133,108	158,001 146,118 134,572 99,557 97,917	151,473 132,196 120,932 90,774	141,697 121,822 99,033	128,716 100,808 84,534
NATIONAL TELEPHONE COMMUNICATIONS, INC. VARTEC TELECOM, INC. CINCINNATI BELL LONG DISTANCE INC. GENERAL COMMUNICATIONS, INC. ALLTEL LONG DISTANCE SWITCHED SERVICES COMMUNICATIONS 13/	139,185 137,594 134,506 130,994 127,563 126,721	116,898 120,710 124,969 78,401	120,832 115,398 119,883	136,568 102,634 102,813	122,991 102,163 102,528	130,738 92,302 102,202
TELAMERICA, INC. ATX TELECOMMUNICATIONS SERVICES ONE CALL COMMUNICATIONS AMERIVISION COMMUNICATIONS	124,628 122,297 120,952 117,120	122,093 119,843 110,352	115,403 118,637 93,613	109,463 113,466 78,328	105,053 107,979	100,282 110,023
CENTURY AREA LONG LINES ACCESS LONG DISTANCE OCI (ONCOR)	116,708 107,423 106,742	104,143 101,914 116,046	90,562 128,209	81,438 148,918	161,085	163,972
INTERNATIONAL TELECHARGE COMMONWEALTH LONG DISTANCE (CLD) AMERICAN TELCO, INC.	103,421 99,806	109,349 89,783	139,414 83,402	146,663	147,045	125,682
TWT-HEARTLINE ACC LONG DISTANCE CORPORATION MATRIX TELECOM TRESCOM INTERNATIONAL, INC.	97,531 87,667 85,971 84,766	118,455 80,795 89,689	117,739 79,652 91,031		74,482	72,803
DELTACOM L.D.S. WINSTAR GATEWAY NETWORK, INC MIDCOM COMMUNICATIONS COMMUNIQUE TELECOM	83,580	109,991 79,472	86,652 81,386	102,076	188,295	197,874
WORLDXCHANGE 14/ CHERRY COMMUNICATIONS LINTEL (LINCOLN) SONIC COMMUNICATIONS 15/ TELESPHERE NETWORK 15/ PUERTO RICO TEL-COM			140,610 104,367 79,281	127,839 93,746 81,010	156,055 85,496 114,041	79,270 88,136
NETECH COMM, US WEST TOTAL QUALIFYING CARRIERS	154,461,869	152,080,868	149,232,439	146,960,164	145,317,426	142,215.682
NON-QUALIFYING CARRIERS	4,210,374	3,920,356	3,368,738	3,384,888	3,161,902	3,013,060
TOTAL INDUSTRY PRESUBSCRIBED LINES	158,672,243	156,001,224	152,601,177	150,345,052	148,479,328	145,228,742

TABLE 2.1 - PRESUBSCRIBED TELEPHONE LINES BY CARRIER (CONT'D)

WITH PRESUBSCRIBED LINES 496 412 414 422 388 355 TOTAL NUMBER OF QUALIFYING CARRIERS 27 28 32 29 29 29 20 20 20 20 20 20 20 20 20 20 20 20 20		DEC 93	JUNE 93	DEC 92	JUNE 92	DEC 91	JUNE 91
TOTAL NUMBER OF NON-QUALIFYING CARRIERS 409 384 386 401 586 331 **COUNTY OF COMPANES 1/** **ATAT COMMUNICATIONS COMPANES 1/** **TELECOMPUSA C	TOTAL NUMBER OF CARRIERS WITH PRESUBSCRIBED LINES	436	412	414	425	388	355
TATE COMPANIES ATAT CAMMAINCATIONS ATAT CAMMAI	TOTAL NUMBER OF QUALIFYING CARRIERS TOTAL NUMBER OF NON-QUALIFYING CARRIERS						
ATRIEDOMINICATIONS (10,170,74) (10,120,888) (10,138,44) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24) (10,138,24							
TELECONNECT SMILLAR, INC. UND DISTANCE USA WORLDOM 37 ADVANCED TELECOM CORP. (ATC) ADVANCED	AT&T COMMUNICATIONS AT&T ALASCOM, INC. 2/ MCI TELECOMMUNICATIONS CORP. SOUTHERNET	216,964	218,225	209,850	203,832	203,105	101,013,529 196,244 17,603,453
MORLIDOON 3	TELECONNECT SPRINT LA CONEXION FAMILIAR, INC.	9,212,993	8,621,177			8,353,583	8,702,085
COM SYSTEMS DBA SUN DIAL TITRODUED 117.571 116.326 119.034 TITRODUED 117.571 116.327 TITRODUED 117.571 116.329 TITRODUED 117.571 TITRODUED 117	WORLDCOM 3/ ADVANCED TELECOM CORP. (ATC)	1,752,616	931,553				134,043 334,157
### ### ##############################			134.950	126.190	117.571	116.326	119.034
MICROTEL MICHAELECOMMUNICATIONS NATIONAL TELECOMMUNICATIONS NATIONAL TELECOMMUNICATIONS NATIONAL TELECOMMUNICATIONS NATIONAL TELECOMMUNICATIONS TELLIGITELEC SAVING TOUGH+ LONG DISTANCE WILTEL 4/ MFS INTELENTE, INC. EXCEL TELECOMMUNICATIONS, INC. U.C.I INTERNATIONAL.ITELE 5/ L.C.I CORPORATE TELEMANAGEMENT GROUP L.CIUS SIGNAL CORP. 6/ FRONTIER COMMANICATIONS, INC. U.C.I INTERNATIONAL.ITELE 5/ L.C.I CORPORATE TELEMANAGEMENT GROUP L.CIUS SIGNAL CORP. 6/ FRONTIER COMMANICATIONS INT. 9/ FRONTIER COMMANDETH CENTRAL REGION 10/ FRONTIER COMMANORTH CENTRAL REGION 10/ FRONTIER ORD MININICATIONS TRANSPORT OF THE GREAT LAKES 11/ FRONTIER ORD THE WEST 12/ SIGNAL CORP. 6/ FRONTIER COMMANORTH CENTRAL REGION 10/ FRONTIER ORD THE WEST 12/ SIGNAL CORP. 6/ FRONTIER COMMANORTH CENTRAL REGION 10/ FRONTIER ORD THE WEST 12/ SIGNAL FRONTIER CORPORATIONS TELEFONICA LARGA DISTANCIA U.S. LONG DISTANCE TOLUCH+ COMMINICATIONS TELEFONICA LARGA DISTANCIA U.S. LONG DISTANCE TOLUCH+ COMMINICATIONS TELEFONICA LARGA DISTANCIA U.S. LONG DISTANCE TOLUCH+ COMMINICATIONS TELEFONICA LARGA DISTANCIA U.S. SIGNAL TELEFONIC TOLUCH+ COMMINICATIONS (DR)	ΙΠ						
WILTEL 4/ MFS INTELENET, INC.	MICROTEL MID-AMERICAN NATIONAL TELECOMMUNICATIONS NTS (NATIONAL TELEPHONE SYSTEMS) TELUS/TELTEC SAVING	00.044			400,030	470,120	91,417
LCI INTERNATIONAL LITEL 5' LCI CORPORATE TELEMANAGEMENT GROUP LCI US SIGNAL CORP. 6' RONTIER COMPANIES: 7' FRONTIER COMPANIES: 11' FRONTIER	WILTEL 4/ MFS INTELENET, INC. EXCEL TELECOMMUNICATIONS, INC.				116,501	87,758	
LICHUS SIGNAL CORP. 6' FRONTIER COMPANIES: 7' FRONTIER COMPANIES: 7' FRONTIER COMMUNICATIONS INTL 9' FRONTIER COMMUNICATIONS INC. AND STANCE COMMUNICATIONS INC. AND STANCE COMPANY AND STANCE COMMUNICATIONS SUET AMERICA LONG DISTANCE GREEN COMMUNICATIONS SUET AMERICA LONG DISTANCE GREEN COMMUNICATIONS TOUCH I COMMUNICATIONS		405,644	359,575	338,496	226,350	186,884	163,089
FRONTIER COMPANIES: 7 FRONTIER COMMANICATIONS IVC., INC. 8/ FRONTIER COMMUNICATIONS IVT. 9/ FRONTIER COMMUNICATIONS INT. 9/ FRONTIER COMMUNICATIONS INT. 9/ FRONTIER COMMUNICATIONS IVC. FRONTIER COMMUNICATIONS IVC. FRONTIER COMMUNICATIONS IVC. FRONTIER OF THE WEST 1/2 SHET AMERICAL LONG DISTANCE ORDER A WIRELESS COMMUNICATIONS TELEFONICA LARGA DISTANCIA 142,922 436,695 432,701 425,334 419,293 393,034 426,935 448,951 775,697 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 76,521 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,059 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069 71,069		109,071	93,155	77,096			
FRONTIER OF THE GREAT LAKES 11/ FRONTIER OF THE WEST 12/ SINET AMERICA LONG DISTANCE GREUNDED ISTANCE CO. CABLE & WIRELESS COMMUNICATIONS CABLE & WIRELESS COMMUNICATIONS CABLE & WIRELESS COMMUNICATIONS CABLE & WIRELESS COMMUNICATIONS COMMUNICATIONS UNITED TELEPHONE LONG DISTANCE GREAT COMMUNICATIONS TOUCH I COMMUNICATIO	FRONTIER COMMUNICATIONS INT'L 9/						
CABLE & WIRELESS COMMUNICATIONS TELEFONICA LARGA DISTANCIA U.S. LONG DISTANCE/ZERO PLUS U.S.	FRONTIER OF THE GREAT LAKES 11/		76,521	71,059			
UNITED TELEPHONE LONG DISTANCE TOUGH 1 COMMUNICATIONS CITIZENS TELECOM LONG DISTANCE SAVERS BUSINESS TELECOM, INC. (BTI) INTER CONTINENTAL TELEPHONE LD. SERVICES, INC. COASTAL TELEPHONE COMMUNICATIONS, INC. VARTEC TELEPHONE COMMUNICATIONS, INC. UNTER CONTINENTAL TELECOM, INC. (BTI) INTER CONTINENTAL TELEPHONE COMMUNICATIONS, INC. VARTEC TELECOM, INC. CINCINNATI BELL LONG DISTANCE INC. GENERAL COMMUNICATIONS, INC. UNCOMMUNICATIONS, INC. VARTEC TELECOM, INC. CINCINNATI BELL LONG DISTANCE INC. GENERAL COMMUNICATIONS SERVICES SUMTCHED SERVICES COMMUNICATIONS 13/ TELAMERICA, INC. TO,, 246 TO,, 254 TO,, 254 TO,, 257 TO,, 268 TO,, 269 TO, 369 TO,, 369 TO,	GTE LONG DISTANCE CO. CABLE & WIRELESS COMMUNICATIONS TELEFONICA LARGA DISTANCIA TELEFONICA LARGA DISTANCIA						448,951 393,034
CITIZENS TELECOM LONG DISTANCE SAVERS BUSINESS TELECOM, INC. (BT1) INTER CONTINENTAL TELEPHONE LD. SERVICES, INC. COASTAL TELEPHONE COMPANY NATIONAL TELEPHONE COMMANY NATIONAL TELEPHONE COMMUNICATIONS, INC. VARITEC TELECOM, INC. COASTAL TELEPHONE COMMANY NATIONAL TELECOM, INC. 117,692 77,258 93,014 90,841 97,798 94,229 93,233 90,252 ALITEL LONG DISTANCE SWITCHED SERVICES COMMUNICATIONS 13/ TELAMERICA, INC. 94,114 92,719 92,860 91,460 85,801 90,887 ATX TELECOMMUNICATIONS SERVICES 104,971 86,186 82,303 70,246 044,511 106,625 87,593 NITERNATIONAL TELECHARGE COMMONIVERAL TH LONG DISTANCE OCI (ONCOR) INTERNATIONAL TELECHARGE COMMONIVERAL TH LONG DISTANCE COMMONIVERAL TH LONG DISTANCE (CLD) AMERICAN TELECO, INC. AMERICAN TELECO, INC. AMERICAN TELECO, INC. AMERICAN TELECO, INC. BASE ACCESS LONG DISTANCE COMMONIVERAL TH LONG DISTANCE (CLD) AMERICAN TELECO, INC. BASE ACCESS LONG DISTANCE (CLD) AMERICAN TELECO, INC. COMMONIVERAL TH LONG DISTANCE (CLD) AMERICAN TELECO, INC. BASE ACCESS LONG COMMUNICATIONS COMMONIVERATIONAL, INC. BELTACOM L.D.S. WINTSTAR GATEWAY NETWORK, INC MIDCOM COMMUNICATIONS COMMUNICATIONS COMMUNICATIONS COMMUNICATIONS COMMUNICATIONS LINTEL (LINCOLN) SONIC COMMUNICATIONS LINTEL (LINCOLN) SONIC COMMUNICATIONS LINTEL (LINCOLN) SONIC COMMUNICATIONS 15/ TELESPHERE NETWORK 15/ PUEPTOR ICC TELCOM NETECH COMMUNICATIONS 15/ TELESPHERE NETWORK 15/ PUEPTOR ICC TELCOM NETECH COMMUNICATIONS 15/ TELESPHERE NETWORK 15/ PUEPTOR ICC TELCOM NETECH COMMUNICATIONS 15/ TELESPHERE NETWORK 15/ PUEPTOR ICC TELCOM NETECH COMMUNICATIONS 15/ TELESPHERE NETWORK 15/ PUEPTOR ICC TELCOM NETECH COMMUNICATIONS 15/ TELESPHERE NETWORK 15/ PUEPTOR ICC TELCOM NETECH COMMUNICATIONS 15/ TELESPHERE NETWORK 15/ PUEPTOR ICC TELCOM NETECH COMMUNICATIONS 15/ TELESPHERE NETWORK 15/ PUEPTOR ICC TELCOM NETECH COMMUNICATIONS 15/ TELESPHERE NETWORK 15/ PUEPTOR ICC TELCOM NETECH COMMUNICA	UNITED TELEPHONE LONG DISTANCE	648,131	625,831	639,341	626,850	596,114	590,187
COASTAL TELEPHONE COMPANY NATIONAL TELEPHONE COMMUNICATIONS, INC. VARTEC TELEPHONE COMMUNICATIONS, INC. VARTEC TELECOM, INC. CINCINNATI BELL LONG DISTANCE INC. SINCENDAL COMMUNICATIONS, INC. VARTEC TELECOM, INC. SINCENDAL COMMUNICATIONS, INC. SINCENDAL COMMUNICATIONS, INC. SINCENDAL COMMUNICATIONS, INC. SINCENDAL COMMUNICATIONS SERVICES ONE CALL COMMUNICATIONS SERVICES ONE CALL COMMUNICATIONS ONE COMMUNICATIONS	CITIZENS TELECOM LONG DISTANCE SAVERS BUSINESS TELECOM , INC. (BTI) INTER CONTINENTAL TELEPHONE		98,514	87,687	80,839	77,568	73,696
TELAMERICA, INC. ATX TELECOMMUNICATIONS SERVICES ONE CALL COMMUNICATIONS ONE CALL COMMUNICATIONS CENTURY AREA LONG LINES ACCESS LONG DISTANCE OCI (ONCOR) INTERNATIONAL TELECHARGE COMMONWEALTH LONG DISTANCE (CLD) AMERICAN TELCO, INC. TWT-HEARTLINE ACC LONG DISTANCE OCI (ONCOR) AMERICAN TELCO, INC. TWT-HEARTLINE ACC LONG DISTANCE CORPORATION MATRIX TELECOM TRESCOM INTERNATIONAL, INC. DELTACOM L.D.S. WINSTAR GATEWAY NETWORK, INC MIDCOM COMMUNICATIONS COMMUNIQUE TELECOM WORLDXCHANGE 14/ CHERRY COMMUNICATIONS LINTER (LINCOLN) SONIC COMMUNICATIONS 15/ TELESPHERE NETWORK 15/ PUERTO RICC TEL-COM NETEL-COM NETEL-COM TOTAL QUALIFYING CARRIERS 139,963,294 139,963,294 138,162,070 136,423,594 134,230,099 133,013,454 137,985,422 137,921 148,865 130,090 130,13,454 132,017,921 137,7921	COASTAL TELEPHONE COMPANY NATIONAL TELEPHONE COMMUNICATIONS, INC. VARTEC TELECOM, INC. CINCINNATI BELL LONG DISTANCE INC. GENERAL COMMUNICATIONS, INC. ALLTEL LONG DISTANCE	93,659	93,014				74,387 90,252
ACCESS LONG DISTANCE OCI (ONCOR) INTERNATIONAL TELECHARGE COMMONWEALTH LONG DISTANCE (CLD) AMERICAN TELCO, INC. TWT-HEARTLINE ACC LONG DISTANCE CORPORATION MATRIX TELECOM TRESCOM INTERNATIONAL, INC. DELTACOM L.D.S. WINISTAR GATEWAY NETWORK, INC MIDCOM COMMUNICATIONS COMMUNIQUE TELECOM WORLDXCHANGE 14/ CHERRY COMMUNICATIONS LINTEL (LINCOLN) SONIC COMMUNICATIONS 190,146 SONIC COMMUNICATIONS 190,146 TELESPHERE NETWORK 15/ PUERTO RICO TEL-COM NETECH COMM, US WEST TOTAL QUALIFYING CARRIERS 139,963,294 138,162,070 136,423,594 134,230,099 133,013,454 132,017,921 NON-QUALIFYING CARRIERS 2,845,986 2,452,609 2,301,446 2,473,551 2,273,128 1,878,542	SWITCHED SERVICES COMMUNICATIONS 13/ TELAMERICA, INC. ATX TELECOMMUNICATIONS SERVICES ONE CALL COMMUNICATIONS AMERIVISION COMMUNICATIONS AMERIVATIONS AMERIVATIONS					85,801	90,887
INTERNATIONAL TELECHARGE	ACCESS LONG DISTANCE	1// 511	106 625	97 502			
MATRIX TELECOM TRESCOM INTERNATIONAL, INC. DELTACOM L.D.S. WINSTAR GATEWAY NETWORK, INC MIDCOM COMMUNICATIONS COMMUNIQUE TELECOM WORLDXCHANGE 14/ CHERRY COMMUNICATIONS LINTEL (LINCOLN) SONIC COMMUNICATIONS 15/ TELESPHERE NETWORK 15/ PUERTO RICO TEL-COM NETECH COMM, US WEST TOTAL QUALIFYING CARRIERS 139,963,294 138,162,070 136,423,594 134,230,099 133,013,454 137,921 137,921 137,921		,			93,241	72,813	82,085
COMMUNIQUE TELECOM WORLDXCHANGE 14/ CHERRY COMMUNICATIONS LINTEL (LINCOLN) SONIC COMMUNICATIONS 15/ TELESPHERE NETWORK 15/ PUERTO RICO TEL-COM NETECH COMM, US WEST TOTAL QUALIFYING CARRIERS 139,963,294 189,781 161,398 148,865 133,090 106,892 93,809 94,183 96,415 94,666 79,146 107,063 107,063 107,063 107,063 134,230,099 133,013,454 132,017,921 1,878,542	ACC LONG DISTANCE CORPORATION MATRIX TELECOM TRESCOM INTERNATIONAL, INC. DELTACOM L.D.S. WINSTAR GATEWAY NETWORK, INC						
SONIC COMMUNICATIONS 15/ TELESPHERE NETWORK 15/ PUERTOR RICO TEL-COM NETECH COMM, US WEST TOTAL QUALIFYING CARRIERS 139,963,294 138,162,070 136,423,594 134,230,099 133,013,454 132,017,921 NON-QUALIFYING CARRIERS 2,845,986 2,452,609 2,301,446 2,473,551 2,273,128 1,878,542	COMMUNIQUE TELECOM WORLDXCHANGE 14/ CHERRY COMMUNICATIONS				,		93,809
TOTAL QUALIFYING CARRIERS 139,963,294 138,162,070 136,423,594 134,230,099 133,013,454 132,017,921 NON-QUALIFYING CARRIERS 2,845,986 2,452,609 2,301,446 2,473,551 2,273,128 1,878,542	LINTEL (LINCOLN) SONIC COMMUNICATIONS 15/ TELESPHERE NETWORK 15/ PUERTO RICO TEL-COM	90,146		93,427	93,562	94,183	96,415 94,666 79,146
NON-QUALIFYING CARRIERS 2,845,986 2,452,609 2,301,446 2,473,551 2,273,128 1,878,542		130 063 204		136 /22 504	13/1 23/1 000	133 013 454	132 017 024
THE TOTAL TO THE TOTAL OF THE T	TOTAL INDUSTRY PRESUBSCRIBED LINES	2,845,986 142,809,280	2,452,609 140,614,679	138,725,040	2,473,551 136,703,650	135,286,582	1,878,542

TABLE 2.1 - PRESUBSCRIBED TELEPHONE LINES BY CARRIER

	DEC 90	JUNE 90	DEC 89	JUNE 89	DEC 88	JUNE 88	DEC 87
TOTAL NUMBER OF CARRIERS WITH PRESUBSCRIBED LINES	325	314	302	276	253	242	223
TOTAL NUMBER OF QUALIFYING CARRIERS TOTAL NUMBER OF NON-QUALIFYING CARRIERS	21 304	20 294	20 282	21 255	21 232	20 222	19 204
QUALIFYING COMPANIES 1/							
AT&T COMPANIES: AT&T COMMUNICATIONS AT&T ALASCOM, INC. 2/ MCI TELECOMMUNICATIONS CORP. SOUTHERNET	100,061,611 182,341 17,434,898	99,612,725 179,175 16,864,001	99,396,609 168,095 15,055,643	100,006,827 165,332 13,671,625	100,205,677 161,572 12,149,921 215,384	100,832,869 157,250 10,941,207 199,093	101,652,678 152,040 9,990,561 183,769
TELECOM*USA TELECONNECT SPRINT	8,743,988	712,263 8,148,013	646,084 8,167,638	533,516 7,674,605	247,042 7,197,136	211,949 6,382,372	156,614 5,836,179
LA CONEXION FAMILIAR, INC. LONG DISTANCE/USA WORLDCOM 3/ ADVANCED TELECOM CORP. (ATC)	116,864 355,518	70,781 372,260	66,576 396,319	262,542		81,692	85,680
AMERICAN NETWORK CLAYDESTA DIGITAL COM SYSTEMS DBA SUN DIAL	118,963	118,225	89,081	87,520	96,914 62,773	78,804	95,926 71,794
ITT METROMEDIA MICROTEL	515,711	360,551 198,374	412,197 207,599	425,109 209,036	420,793 215,181 70,273	394,707 211,210 63,587	279,549 215,485
MID-AMERICAN NATIONAL TELECOMMUNICATIONS NTS (NATIONAL TELEPHONE SYSTEMS)		67,129	77,667	89,367 65,692	97,526	100,113	96,384
TELUS/TELTEC SAVING TOUCH-1 LONG DISTANCE WILTEL 4/ MFS INTELENET, INC.			,,,,	134,150	125,339	117,191	105,243
EXCEL TELECOMMUNICATIONS, INC. LCI COMPANIES: LCI INTERNATIONAL/LITEL 5/ LCI CORPORATE TELEMANAGEMENT GROUP LCI/US SIGNAL CORP. 6/	144,926	137,164	123,748	107,302	92,014		
FRONTIER COMPANIES: 7/ FRONTIER dba ALLNET COMM. SVC., INC. 8/ FRONTIER COMMUNICATIONS INT'L 9/ FRONTIER COMM-NORTH CENTRAL REGION 10/ FRONTIER OF THE GREAT LAKES 11/ FRONTIER OF THE WEST 12/	744,452 171,198	709,876 150,069	677,531 113,329	687,097 98,334	763,680 83,383	818,080 63,574	726,974
SNET AMERICA LONG DISTANCE GTE LONG DISTANCE CO. CABLE & WIRELESS COMMUNICATIONS TELEFONICA LARGA DISTANCIA	422,534 375,694	407,906	394,020	358,290	304,976	256,786	236,000
U.S. LONG DISTANCE/IZERO PLUS UNITED TELEPHONE LONG DISTANCE TOUCH 1 COMMUNICATIONS CITIZENS TELECOM	548,303	524,477	513,033	430,550	285,385	167,025	82,602
UNIZENS TELECOM LONG DISTANCE SAVERS BUSINESS TELECOM, INC. (BTI) INTER CONTINENTAL TELEPHONE LD. SERVICES, INC. COASTAL TELEPHONE COMPANY NATIONAL TELEPHONE COMMUNICATIONS, INC. VARTEC TELECOM, INC.							
CINCINNATI BELL LONG DISTANCE INC. GENERAL COMMUNICATIONS, INC. ALLTEL LONG DISTANCE	67,689 88,360	82,386	86,089	85,773	83,468	84,807	89,338
SWITCHED SERVICES COMMUNICATIONS 13/ TELAMERICA, INC. ATX TELECOMMUNICATIONS SERVICES ONE CALL COMMUNICATIONS AMERIVISION COMMUNICATIONS CENTURY AREA LONG LINES	101,968	102,530	100,213	99,038	90,570	94,654	94,292
ACCESS LONG DISTANCE OCI (ONCOR) INTERNATIONAL TELECHARGE COMMONWEALTH LONG DISTANCE (CLD) AMERICAN TELCO, INC. TVT-HEARTLINE	83,725	87,751	95,252	71,346			
ACC LONG DISTANCE CORPORATION MATRIX TELECOM TRESCOM INTERNATIONAL, INC. DELTACOM L.D.S. WINSTAR GATEWAY NETWORK, INC MIDCOM COMMUNICATIONS COMMUNIQUE TELECOM							
WORLDXCHANGE 14/ CHERRY COMMUNICATIONS LINTEL (LINCOLN) SONIC COMMUNICATIONS 15/ TELESPHERE NETWORK 15/ DIEDTO BICC TEL COM	99,594 111,386	95,126	96,966	93,353	94,031	92,636	93,352
PUERTO RICO TEL-COM NETECH COMM, US WEST	99,821	400 000 707	400 000 000	405.050.40.	400 000 000	404 040 000	400 044 405
TOTAL QUALIFYING CARRIERS	130,589,544	129,000,782	126,883,689	125,356,404	123,063,038		
NON-QUALIFYING CARRIERS TOTAL INDUSTRY PRESUBSCRIBED LINES	1,819,064 132,408,608	1,776,233 130,777,015	1,598,790 128,482,479	1,390,131 126,746,535	1,297,791 124,360,829	1,315,809 122,665,415	1,222,040 121,466,500
	1 ==, .00,000	,,010	, .0, -, 0	,,000	,000,020	1 ==,000,410	1 = 1, 100,000

Notes for Table 2.1 - Presubscribed Telephone Lines by Carrier

- 1/ Information for each qualifying company is only shown for years in which the carrier had at least 0.05% of overall presubscribed lines.
- 2/ Purchased by AT&T in 1995.
- 3/ LDDS/WorldCom changed its name to WorldCom, Inc. in May 1995.
- 4/ WorldCom and Wiltel merged on January 5, 1995.
- 5/ Name changed from Litel, December 1994.
- 6/ Name changed from Teledial America, December 1994.
- 7/ The total number of presubscribed lines reported by Frontier in 1995 and 1996 are only for those subsidiaries which meet the qualifying companies' threshold noted in footnote 1 above.
- 8/ Purchased by Frontier in 1995.
- 9/ Name changed to RCI, December 1994.
- 10/ Formerly American Sharecom; purchased by Frontier in 1995.
- 11/ Formerly Schneider Communications; purchased by Frontier in 1995.
- 12/ Formerly West Coast Telecommunications; purchased by Frontier in 1995.
- 13/ Subsidiary of IXC Communications.
- 14/ Name changed from Communications Telesystems International (CTI) in 1995.
- 15/ Company went bankrupt.

TABLE 2.2 - MARKET SHARE OF PRESUBSCRIBED LINES

						OTHER
		AT&T	MCI	SPRINT	WORLDCOM	CARRIERS
1987	DEC	83.7 %	8.2 %	4.8 %		3.3 %
1988	JUNE DEC	82.2 80.6	8.9 9.8	5.2 5.8		3.7 3.9
1989	JUNE	78.9	10.8	6.1	0.0 %	4.3
	DEC	77.4	11.7	6.4	0.1	4.5
1990	JUNE	76.2	12.9	6.2	0.1	4.7
	DEC	75.6	13.2	6.6	0.1	4.6
1991	JUNE	75.4	13.1	6.5	0.1	4.8
	DEC	75.0	13.5	6.2	0.2	5.0
1992	JUNE	74.2	14.0	6.2	0.2	5.4
	DEC	73.0	14.5	6.4	0.3	5.8
1993	JUNE	72.4	15.1	6.1	0.7	5.8
	DEC	71.2	15.3	6.5	1.2	5.8
1994	JUNE	70.5	15.3	6.4	1.3	6.5
	DEC	70.0	14.8	6.4	1.3	7.4
1995	JUNE	68.2	15.6	6.4	2.4	7.4
	DEC	66.4	15.7	6.4	2.7	8.8
1996	JUNE	64.0	15.6	7.0	2.6	10.8
	DEC	63.3	14.5	7.4	2.7	12.1

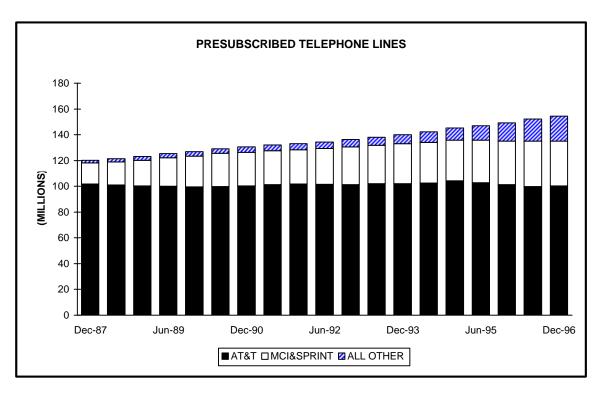


TABLE 2.3 - SHARE OF LINES SERVED BY ILECS IN THEIR OWN LOCAL SERVICE AREAS

Year	ILECs with Presubscribed Lines in their own service areas	Study Areas with Lines Presubscribed to the serving ILEC	Lines Presubscribed to ILECs in their own service areas	Total Lines in Study Areas with Lines Presubscribed to the serving ILEC	ILEC's Share of Total Lines
1989	7	21	861,174	4,982,221	17.3 %
1990	9	25	957,969	5,275,279	18.2
1991	12	37	1,101,824	5,922,057	18.6
1992	18	55	1,422,150	7,989,993	17.8
1993	28	75	1,628,055	10,564,681	15.4
1994	42	101	1,819,772	11,357,655	16.0
1995	48	141	2,269,976	12,789,604	17.7
1996	66	254	4,020,982	31,016,942	13.0

TABLE 2.4 - DISTRIBUTION OF ILECS BY NUMBER OF AREAS IN WHICH THEY PROVIDE BOTH LOCAL AND LONG DISTANCE SERVICE

Year	ILECs Serving 1 Study Area	ILECs Serving 2 Study Areas	ILECs Serving 3 to 10 Study Areas	ILECs Serving 11 to 24 Study Areas	ILECs Serving 25 or More Study Areas	Total
1989	4	2	0	1	0	7
1990	5	3	0	1	0	9
1991	8	2	1	1	0	12
1992	12	3	2	1	0	18
1993	21	4	1	2	0	28
1994	33	6	0	3	0	42
1995	37	7	1	1	2	48
1996	52	8	0	2	4	66

3. TOLL REVENUES

The larger long distance telephone companies (those with \$112 million or more in annual operating revenues for calendar year 1997) are required to report their annual revenues to the FCC. Unlike the information on switched access minutes, which excludes intrastate toll calls, reported revenues include intrastate calls, along with other domestic and interstate calls. For most carriers, no information is publicly available that separates their revenues into interstate versus intrastate service. In 1997, services provided by long distance carriers generated over \$88 billion in revenue. These revenues are shown in Table 3.1.6 Table 3.1 also contains toll revenues reported by the larger local telephone companies, which provide a substantial amount of intrastate toll service. In 1997, revenues reported by local telephone companies was approximately \$10 billion.7 When combined, the toll revenues for both local and long distance telephone companies reached nearly \$99 billion in 1997.

In 1997, AT&T's revenues were \$39 billion, having grown slightly from \$35 billion in 1984. MCI's revenues grew from almost \$2 billion in 1984 to over \$17 billion in 1997. Sprint's revenues grew from about \$1 billion in 1984 to about \$9 billion in 1997. WorldCom's revenues, which were first reported to the FCC in 1989, have grown from \$110 million to nearly \$6 billion. In 1997, four other companies, Excel, Frontier, LCI, and Cable & Wireless also had long distance revenues exceeding \$1 billion.

Table 3.2 shows market share information based on revenues for long distance carriers. AT&T's 1984 toll revenues accounted for about 90% of the revenues received by all long distance carriers. In 1997, AT&T's revenues accounted for a little over 44% of all long distance carrier revenues. MCI's long distance carrier market share has increased from over 5% in 1984 to over 19% in 1997. Sprint's long distance carrier market share has increased from 3% in 1984 to 10% in 1997. WorldCom's long distance carrier market share has increased from slightly more than 0% in 1989 to 7% in 1997. Smaller long distance carriers increased their share of the market nearly seven-fold, growing from less than 3% in 1984 to 20% in 1997.

Table 3.3 shows market share information based on revenues for long distance carriers including toll revenues collected by local exchange carriers. AT&T's toll revenues, which accounted for about 68% of all toll calling in 1984, fell to 40% in 1997.

Tables 3.2 and 3.3 also contain annual Hirschman-Herfindahl Indices (HHI). The HHI is the sum of squares of the market shares of the companies in a particular industry and is used by the Department of Justice to measure changes in industry concentration resulting from horizontal mergers or acquisitions. Since 1984, the HHI has fallen dramatically from 8,155 to 2,508 when calculated based on long distance carrier revenue. The HHI for the total toll market, which includes toll revenues for both long distance carriers and local exchange companies, has fallen from 4,734 to 2,048 over the same period of time.

⁶The revenue information for long distance telephone companies, shown in Table 3.1, is reported annually to the FCC. The revenues received by long distance carriers that are too small to file revenue reports with the FCC are estimated by the FCC staff.

⁷The revenue information for local exchange telephone companies, shown in Table 3.1, is taken from annual ARMIS (Automated Reporting Management Information System) USOA reports to the FCC (FCC Report 43-02). Revenues for local exchange carriers too small to file reports with the FCC are estimated by the FCC staff.

Table 3.4 shows annual toll revenues divided into three toll categories: intrastate, domestic interstate, and international.⁸ Though the total toll revenue figures are composed mostly of telephone service revenues, they also include revenues generated from telegraph, telex, and private line services. The intrastate toll figure includes both intraLATA and interLATA toll revenues. Of considerable interest is the enormous growth (almost 400%) in the international toll market from 1984 to 1997.

Quarterly reports to stockholders (the source for SEC 10Q filings) represent an alternative source of data on revenues. There are, however, usually differences between revenues reported to the FCC and the revenues reported to stockholders. These differences are related to the treatment of access charges, international settlements, and miscellaneous communications revenues that carriers include in the financial reports to stockholders but exclude in reports to the FCC. Quarterly market share estimates based on financial reports to shareholders are shown in Table 3.5 and are similar to the results produced from annual data.⁹

In 1976, AT&T and local exchange carrier (LEC) revenues constituted more than 99% of all long distance telephone service revenues. Over time, these traditional carriers have lost market share to new entrants in the long distance market. In the third quarter of 1998 new entrants' long distance revenues constituted nearly 50% of all long distance telephone service. In Table 3.6, along with the market shares of new entrants, long distance revenues are presented for both traditional carriers and new entrants in the long distance market. LEC long distance revenues are also provided in Table 3.6 along with new entrant revenues as a fraction of all non-LEC revenues.

⁸The total toll revenue figures reported in Table 3.4 are taken from Table 3.1. The total international revenue figures, which become available for each year in the second half of the following year, are taken from Table 1 in the *Trends in the International Telecommunications Industry* report published by the FCC. This revenue information includes facilities-based, facilities-resale, and pure resale revenue. Domestic revenues are divided between the intrastate and interstate jurisdictions based on FCC staff estimates and revenue divisions reported in the FCC report *Telecommunications Industry Revenue*.

⁹Quarterly revenue information for AT&T, MCI, Sprint, and WorldCom, shown in Table 3.5, is based on initial reports to stockholders. Quarterly revenue figures for all other carriers are estimated by the FCC staff. Accounting differences have caused some inconsistencies in the revenue measures over time. For example, AT&T, which has been subject to the FCC's Uniform System of Accounts (USA), and MCI, which has chosen to report in a similar manner, have deducted settlement payments to foreign correspondents and added settlement receipts from foreign correspondents before reporting revenues to the FCC, but have not netted out settlement payments and receipts when reporting revenues to stockholders. When carrier reporting detail permits, inconsistencies are eliminated.

TABLE 3.1 - TOTAL OPERATING REVENUES OF LONG DISTANCE SERVICE PROVIDERS

COMPANY	1997	1996	1995	1994	1993	1992	1991
AT&T COMPANIES 1/ AT&T COMMUNICATIONS, INC. ALASCOM, INC.	\$39,470	\$39,264	\$38,069 325	\$37,166 329	\$35,731 320	\$35,495 333	\$34,384 338
MCI COMPANIES 2/ MCI COMMUNICATIONS CORP. TELECOM*USA	17,150	16,372	14,617	11,715	10,947	9,719	8,266
SPRINT COMPANIES 3/ SPRINT COMMUNICATIONS CO. GTE SPRINT	8,595	7,944	7,277	6,805	6,139	5,658	5,378
US TELECOM WORLDCOM COMPANIES 4/ WORLDCOM, INC. ADVANCED TELECOMMUNICATIONS CORP.	5,897	4,485	3,640	2,221	1,145	801	263 356
METROMEDIA COMMUNICATIONS CORP. ITT COMMUNICATION SERVICES, INC.					297	369	369
COMSYSTEMS NETWORK SERVICES WILTEL, INC. MFS INTELENET, INC.		122	118	917	116 664	135 494	131 405
EXCEL COMPANIES 5/ EXCEL TELECOMMUNICATIONS, INC. TELCO HOLDINGS, INC. LONG DISTANCE WHOLESALE GROUP	1,180 379 176	1,091 429	363 215	156			
FRONTIER COMPANIES 6/ ALLNET COMM. SVCS. dba FRONTIER COMM. SVCS.	775	1,119	827	568	436	376	347
LEXITEL FRONTIER COMMUNICATIONS INT'L, INC. FRONTIER COMMUNICATIONS OF THE WEST, INC. FRONTIER COMM. OF THE NORTH CENTRAL REGION	223 324	323 121	309 127 133	306 144 123	213	168	155
LCI COMPANIES 7/ LCI INTERNATIONAL TELECOM CORP. USLD COMMUNICATIONS CORP. CABLE & WIRELESS, INC. VARTEC TELECOM, INC. STAR TELECOM, INC. DE ACCUMUNICATIONS, INC.	1,001 241 1,066 820 376	1,103 188 919 470 208	671 155 700 125	453 136 654 107	317 100 557	243 495	208 406
PT-1 COMMUNICATIONS, INC. COMMUNICATION TELESYSTEMS INT'L. GTE COMMUNICATIONS CORP. TELEGROUP, INC. TEL-SAVE, INC. PACIFIC GATEWAY EXCHANGE, INC.	358 345 340 337 305 299	117 196 213 232 162	115 129 180				
IXC LONG DISTANCE, INC. WILLIAMS COMMUNICATIONS, INC. BUSINESS TELECOM, INC. 8/ RSL COMMUNICATIONS, LTD.	258 227 195 192	149	115				
CHERRY COMMUNICATIONS, INC. 9/ GENERAL COMMUNICATION, INC. TRESCOM INTERNATIONAL, INC. SNET AMERICA, INC.	180 158 158 142	354 143 140	120	106	92		
TOTAL-TEL USA COMMUNICATIONS, INC. ACC LONG DISTANCE CORP. ONE CALL COMMUNICATIONS, INC. MIDCOM COMMUNICATIONS, INC. 10/ GE CAPITAL COMMUNICATIONS SERVICES CORP.	123 122 118	118 114 149	204 120	109			
ONCOR COMMUNICATIONS, INC. THE FURST GROUP, INC. AMERICAN NETWORK EXCHANGE, INC.			111 109 101	172 109	140	159	181
TELESPHERE NETWORK, INC. 11/ NATIONAL TELEPHONE SERVICES, INC.			101	109			308
OTHERS 12/	7,097	5,788	5,168	5,055	4,319	3,923	2,948
TOTAL LONG DISTANCE CARRIERS TOLL SERVICE REVENUES:	88,627	82,033	74,143	67,351	61,533	58,368	54,443
BELL OPERATING COMPANIES OTHER LOCAL TELEPHONE COMPANIES 12/	7,138 2,804	7,950 3,298	8,189 3,143	9,527 3,848	9,849 3,908	9,718 3,897	10,066 4,049
TOTAL LOCAL EXCHANGE COMPANIES	9,942	11,248	11,332	13,375	13,757	13,615	14,115
TOTAL REVENUES OF LONG DISTANCE SERVICE PROVIDERS	\$98,569	\$93,281	\$85,475	\$80,726	\$75,290	\$71,983	\$68,558

TABLE 3.1 - TOTAL OPERATING REVENUES OF LONG DISTANCE SERVICE PROVIDERS

COMPANY	1990	1989	1988	1987	1986	1985	1984
AT&T COMPANIES 1/ AT&T COMMUNICATIONS, INC. ALASCOM, INC.	\$33,880 259	\$34,549 278	\$35,407 272	\$35,219 262	\$36,514 267	\$36,770 271	\$34,935 255
MCI COMPANIES 2/ MCI COMMUNICATIONS CORP. TELECOM*USA	7,392	6,171 713	4,886 524	3,938 396	3,372 291	2,331 201	1,761 105
SPRINT COMPANIES 3/ SPRINT COMMUNICATIONS CO. GTE SPRINT US TELECOM	5,041	4,320	3,405	2,592	1,141 779 212	1,122 387	1,052
WORLDCOM COMPANIES 4/ WORLDCOM, INC. ADVANCED TELECOMMUNICATIONS CORP.	154 342 381	110 326	178	162	124	86	72
METROMEDIA COMMUNICATIONS CORP. ITT COMMUNICATION SERVICES, INC. COMSYSTEMS NETWORK SERVICES WILTEL, INC.	130 376	127 404 300	379	287	282	241	161
MFS INTELENET, INC. EXCEL COMPANIES 5/ EXCEL TELECOMMUNICATIONS, INC. TELCO HOLDINGS, INC. LONG DISTANCE WHOLESALE GROUP FRONTIER COMPANIES 6/							
ALLNET COMM. SVCS. dba FRONTIER COMM. SVCS. LEXITEL	326	334	394	395	450	309 127	
FRONTIER COMMUNICATIONS INT'L, INC. FRONTIER COMMUNICATIONS OF THE WEST, INC. FRONTIER COMM. OF THE NORTH CENTRAL REGION LCI COMPANIES 7/	142	104				121	
LCI INTERNATIONAL TELECOM CORP.	215	197					
USLD COMMUNICATIONS CORP. CABLE & WIRELESS, INC. VARTEC TELECOM, INC. STAR TELECOMMUNICATIONS, INC. PT-1 COMMUNICATIONS, INC. COMMUNICATION TELESYSTEMS INT'L.	359	275	218	180	171	146	
GTE COMMUNICATIONS CORP. TELEGROUP, INC. TEL-SAVE, INC. PACIFIC GATEWAY EXCHANGE, INC. IXC LONG DISTANCE, INC. WILLIAMS COMMUNICATIONS, INC. BUSINESS TELECOM, INC. 8/							
RSL COMMUNICATIONS, LTD. CHERRY COMMUNICATIONS, INC. 9/ GENERAL COMMUNICATION, INC. TRESCOM INTERNATIONAL, INC. SNET AMERICA, INC. TOTAL-TEL USA COMMUNICATIONS, INC.							
ACC LONG DISTANCE CORP. ONE CALL COMMUNICATIONS, INC. MIDCOM COMMUNICATIONS, INC. 10/ GE CAPITAL COMMUNICATIONS SERVICES CORP. ONCOR COMMUNICATIONS, INC. THE FURST GROUP, INC.	230	275					
AMERICAN NETWORK EXCHANGE, INC. TELESPHERE NETWORK, INC. 11/ NATIONAL TELEPHONE SERVICES, INC.	293	192 150					
OTHERS 12/	2,582	2,359	1,823	1,352	992	639	414
TOTAL LONG DISTANCE CARRIERS	52,102	51,184	47,487	44,783	44,595	42,630	38,755
TOLL SERVICE REVENUES: BELL OPERATING COMPANIES OTHER LOCAL TELEPHONE COMPANIES 12/	10,578 4,112	10,549 4,291	10,668 4,445	10,268 3,468	9,599 3,274	9,026 3,159	9,037 3,364
TOTAL LOCAL EXCHANGE COMPANIES	14,690	14,840	15,113	13,736	12,873	12,185	12,401
TOTAL REVENUES OF LONG DISTANCE SERVICE PROVIDERS	\$66,792	\$66,024	\$62,600	\$58,519	\$57,468	\$54,815	\$51,156

Notes for Table 3.1 - Total Toll Service Revenues

- 1/ AT&T Communications, Inc. acquired Alascom, Inc. August 7, 1995 and began filing consolidated revenues in 1996.
- 2/ MCI Communications Corp. and Telecom*USA merged in 1989 and began filing consolidated revenues in 1990.
- 3/ In July 1986, GTE Sprint and US Telecom merged into US Sprint. The information shown for GTE Sprint and US Telecom for 1986 is for January 1 June 30. The information shown for Sprint Communications Corp. (then US Sprint) for 1986 is for July 1 December 31. United Telecommunications, Inc., then majority owner of US Sprint, purchased the remaining interest from GTE in July 1992. Effective February 26, 1992, the company's name became Sprint Communications Co.
- 4/ Metromedia Communications Corp. and ITT Communications Services, Inc. merged during 1988, but reported 1989 revenue separately. LDDS Communications, Inc. and Advanced Telecommunications Corp. merged in 1992. In 1993, LDDS merged with Metromedia Communications Corp. and Comsystems Network Services. For 1993, only the revenues that were received after the merger are included in LDDS's revenues. Those revenues up to the merger are listed individually for 1993. LDDS and Wiltel merged January 5, 1995. In May 1995 LDDS changed its name to WorldCom, Inc. WorldCom acquired MFS Intelenet December 31, 1996.
- 5/ Excel Telecommunications, Inc. acquired Telco Holdings, Inc. in October 1997. Telco Holdings, Inc. and its affiliate Long Distance Wholesale Group filed a consolidated revenue statement for 1996. Excel Telecommunications, Inc., Telco Holdings, Inc., and Long Distance Wholesale Club each filed separate revenue statements for 1997.
- 6/ Allnet Communications Services and Lexitel merged at the end of 1985. In 1994, RCI Long Distance, Inc. changed its name to Frontier Communications International, Inc. Frontier Corporation, the parent company of Frontier Communications International, Inc., acquired ALC Communications, the parent company of Allnet, August 16, 1995. May 18, 1995, Frontier Corporation acquired WCT Communications, the parent company of West Coast Telecommunications, which is now known as Frontier Communications of the West, Inc. In addition, March 17, 1995, Frontier Corporation acquired American Sharecom, which is now Frontier Communications of the North Central Region.
- 7/ In September 1997 U.S. Long Distance, Inc. changed its name to USLD Communications, Inc. LCI International Telecom Corp. and USLD Communications, Inc. merged in December 1997, and filed separate revenue statements for 1997.
- 8/ Data for 1996 taken from the Annual Report to the Colorado Public Utilities Commission for telecommunications carriers regulated pursuant to §40-15-301 C.R.S.
- 9/ Cherry Communications, Inc. filed for bankruptcy protection in October 1997.
- 10/ MC Liquidating Corp. F/K/A Midcom Communications, Inc. filed for bankruptcy protection in November 1997.
- 11/ Telesphere Network, Inc. and National Telephone Services, Inc. merged during 1989. In 1991 Telesphere Network, Inc. went into bankruptcy.
- 12/ Estimated by FCC staff.

TABLE 3.2 - REVENUES: MARKET SHARE BASED ON OPERATING REVENUES OF LONG DISTANCE CARRIERS ONLY

YEAR	AT&T	MCI	SPRINT	WORLDCOM	ALL OTHER LONG DISTANCE CARRIERS	HERFINDAHL- HIRSCHMAN INDEX (HHI) *
1984	90.1 %	4.5 %	2.7 %		2.6 %	8,155
1985	86.3	5.5	2.6		5.6	7,479
1986	81.9	7.6	4.3		6.3	6,783
1987	78.6	8.8	5.8		6.8	6,298
1988	74.6	10.3	7.2		8.0	5,720
1989	67.5	12.1	8.4	0.2 %	11.8	4,778
1990	65.0	14.2	9.7	0.3	10.8	4,527
1991	63.2	15.2	9.9	0.5	11.3	4,321
1992	60.8	16.7	9.7	1.4	11.5	4,074
1993	58.1	17.8	10.0	1.9	12.3	3,795
1994 1995	55.2 51.8	17.4 19.7	10.0 10.1 9.8	3.3 4.9	14.0 13.8	3,466 3,197
1996	47.9	20.0	9.7	5.5	17.0	2,823
1997	44.5	19.4	9.7	6.7	19.8	2,508

^{*} FCC estimate.

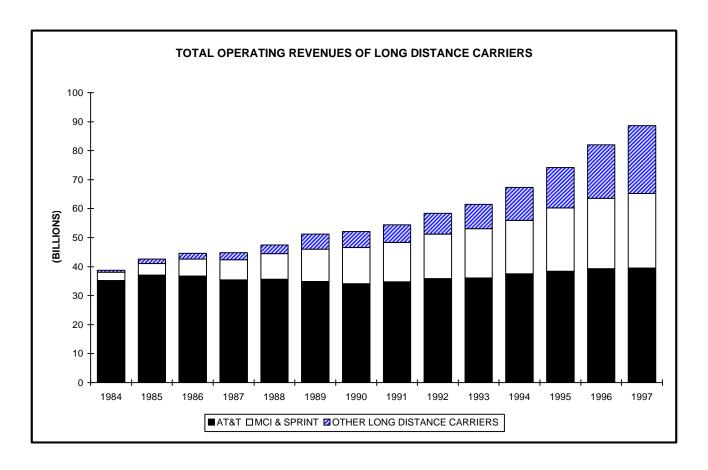


TABLE 3.3 - REVENUES: MARKET SHARE BASED ON TOTAL OPERATING REVENUES OF LONG DISTANCE CARRIERS AND TOTAL TOLL REVENUES FOR LOCAL EXCHANGE CARRIERS

					ALL OTHER		OTHER	
					LONG	BELL	LOCAL	HERFINDAHL-
TVE A D	A 700 0 700	MOL	CDDDIE	WODI DOM	DISTANCE			HIRSCHMAN
YEAR	AT&T	MCI	SPRINT	WORLDCOM	CARRIERS	COMPANIES	COMPANIES	INDEX (HHI) *
1984	68.3 %	3.4 %	2.1 %		2.0 %	17.7 %	6.6 %	4,734
1985	67.1	4.3	2.0		4.4	16.5	5.8	4,571
1986	63.5	5.9	3.3		4.9	16.7	5.7	4,129
1987	60.2	6.7	4.4		5.2	17.5	5.9	3,742
1988	56.6	7.8	5.4		6.1	17.0	7.1	3,344
1989	52.3	9.3	6.5	0.2 %	9.1	16.0	6.5	2,920
1990	50.7	11.1	7.5	0.2	8.4	15.8	6.2	2,801
1991	50.2	12.1	7.8	0.4	9.0	14.7	5.9	2,768
1992	49.3	13.5	7.9	1.1	9.3	13.5	5.4	2,715
1993	47.5	14.5	8.2	1.5	10.1	13.1	5.2	2,568
1994	46.0	14.5	8.4	2.8	11.7	11.8	4.8	2,440
1995	44.9	17.1	8.5	4.3	12.0	9.6	3.7	2,390
1996	42.1	17.6	8.5	4.8	15.0	8.5	3.5	2,197
1997	40.0	17.4	8.7	6.0	17.8	7.2	2.8	2,048

^{*} FCC estimate.

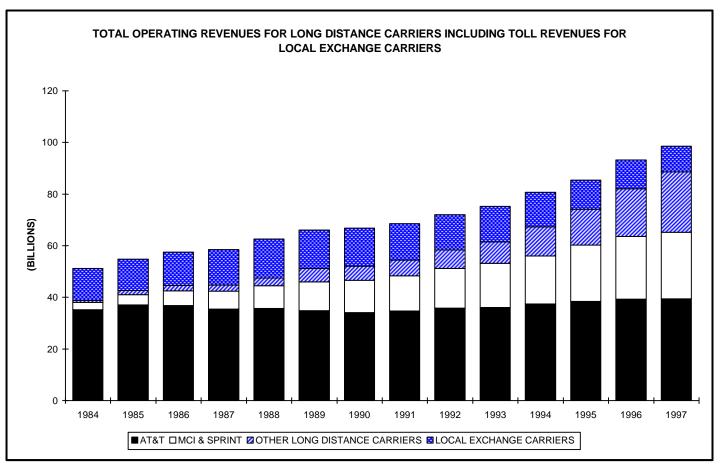


TABLE 3.4 - THE TOLL MARKET (DOLLAR AMOUNTS SHOWN IN MILLIONS)

		REVENUES			AS PERCENTAGE OF TOTAL TOLL REV					
	INTRASTATE	DOMESTIC INTERSTATE	INTERNATIONAL	TOTAL TOLL REVENUES	INTRASTATE	DOMESTIC INTERSTATE	INTERNATIONAL			
					11 (11 11 11 11 11 11 11 11 11 11 11 11		1,121,1111,112			
1984	\$20,872	\$26,490	\$3,794	\$51,156	40.8 %	51.8 %	7.4 %			
1985	22,310	28,387	4,119	54,815	40.7	51.8	7.5			
1986	23,734	29,123	4,611	57,468	41.3	50.7	8.0			
1987	25,339	27,844	5,336	58,519	43.3	47.6	9.1			
1988	26,542	29,724	6,334	62,600	42.4	47.5	10.1			
1989	28,060	30,585	7,379	66,024	42.5	46.3	11.2			
1990	27,652	30,676	8,464	66,792	41.4	45.9	12.7			
1991	27,149	31,331	10,078	68,558	39.6	45.7	14.7			
1992	27,066	33,719	11,199	71,983	37.6	46.8	15.6			
1993	28,158	34,661	12,470	75,290	37.4	46.0	16.6			
1994	28,496	38,262	13,968	80,726	35.3	47.4	17.3			
1995	29,147	39,903	16,425	85,475	34.1	46.7	19.2			
1996	31,995	42,771	18,515	93,281	34.3	45.9	19.8			
1997	32,133	46,142	20,293	98,569	32.6	46.8	20.6			

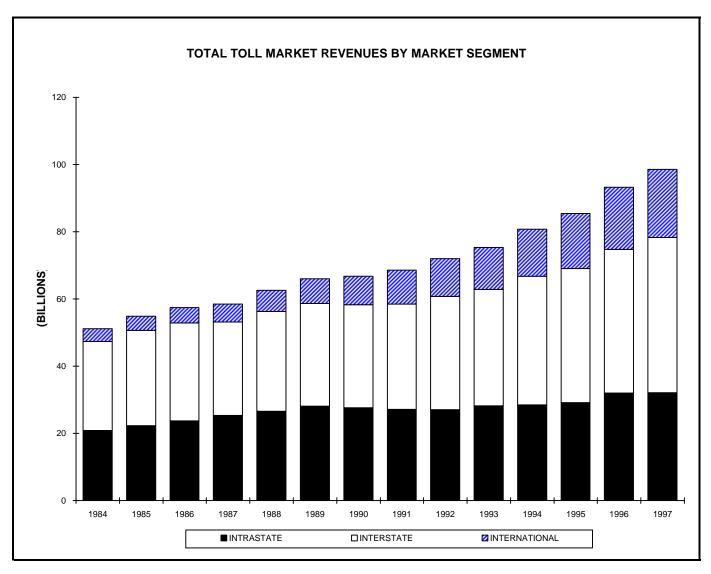


TABLE 3.5 - QUARTERLY TOLL REVENUES REPORTED TO SHAREHOLDERS (DOLLAR AMOUNTS SHOWN IN MILLIONS)

								M	ARKET SHAI	RE	
	AT&T	MCIWO	ORLDCOM 1/	SPRINT	OTHERS	TOTAL	AT&T	MCIWO	RLDCOM 1/	SPRINT	OTHERS
		MCI	WORLDCOM					MCI	WORLDCOM	[
1Q84	\$8,684	\$475		\$302	\$63	\$9,524	91.2 %	5.0 %		3.2 %	0.7 %
2Q84	9,169	485		317	85	10,055	91.2	4.8		3.1	0.8
3Q84	9,097	478		307	114	9,995	91.0	4.8		3.1	1.1
4Q84	9,272	521		320	152	10,265	90.3	5.1		3.1	1.5
1Q85	9,369	571		320	283	10,543	88.9	5.4		3.0	2.7
2Q85	9,840	601		322	297	11,060	89.0	5.4		2.9	2.7
3Q85	9,742	649		335	312	11,038	88.3	5.9		3.0	2.8
4Q85	9,838	721		368	328	11,255	87.4	6.4		3.3	2.9
1Q86	9,865	819		395	383	11,462	86.1	7.1		3.4	3.3
2Q86	9,705	943		432	396	11,476	84.6	8.2		3.8	3.5
3Q86	9,642	910		552	410	11,514	83.7	7.9		4.8	3.6
4Q86	9,502	920		589	423	11,435	83.1	8.0		5.2	3.7
1Q87	9,085	1,005		615	452	11,156	81.4	9.0		5.5	4.0
2Q87	9,298	1,002		546	471	11,317	82.2	8.8		4.8	4.2
3Q87	9,474	1,044		685	492	11,694	81.0	8.9		5.9	4.2
4Q87	9,413	1,088		746	513	11,759	80.1	9.2		6.3	4.4
1Q88	9,229	1,212	\$9	760	538	11,748	78.6	10.3	0.1 %	6.5	4.6
2Q88	9,272	1,300	11	799	583	11,965	77.5	10.9	0.1	6.7	4.9
3Q88	9,378	1,437	14	916	631	12,377	75.8	11.6	0.1	7.4	5.1
4Q88	9,578	1,512	18	930	683	12,722	75.3	11.9	0.1	7.3	5.4
1Q89	9,326	1,625	21	984	951	12,906	72.3	12.6	0.2	7.6	7.4
2Q89	9,251	1,719	26	1,038	965	12,998	71.2	13.2	0.2	8.0	7.4
3Q89	9,175	1,792	31	1,111	978	13,087	70.1	13.7	0.2	8.5	7.5
4Q89	9,239	1,835	32	1,191	992	13,289	69.5	13.8	0.2	9.0	7.5
1Q90	9,511	2,001	34	1,215	1,007	13,768	69.1	14.5	0.2	8.8	7.3
2Q90	9,553	2,061	37	1,239	1,026	13,916	68.6	14.8	0.3	8.9	7.4
3Q90	9,626	2,197	43	1,279	1,046	14,191	67.8	15.5	0.3	9.0	7.4
4Q90	9,693	2,197	41	1,331	1,067	14,329	67.6	15.3	0.3	9.3	7.4
1Q91	9,594	2,283	134	1,339	1,086	14,436	66.5	15.8	0.9	9.3	7.5
2Q91	9,637	2,354	142	1,358	1,120	14,611	66.0	16.1	1.0	9.3	7.7
3Q91	9,820	2,412	164	1,348	1,155	14,900	65.9	16.2	1.1	9.0	7.8
4Q91	9,792	2,442	177	1,343	1,192	14,945	65.5	16.3	1.2	9.0	8.0
1Q92	9,873	2,513	184	1,357	1,287	15,214	64.9	16.5	1.2	8.9	8.5
2Q92	9,851	2,606	198	1,378	1,322	15,356	64.2	17.0	1.3	9.0	8.6
3Q92	10,132	2,682	206	1,432	1,359	15,811	64.1	17.0	1.3	9.1	8.6
4Q92	9,724	2,761	213	1,490	1,396	15,584	62.4	17.7	1.4	9.6	9.0
1Q93	9,967	2,810	219	1,491	1,430	15,917	62.6	17.7	1.4	9.4	9.0
2Q93	9,833	2,929	252	1,510	1,503	16,027	61.4	18.3	1.6	9.4	9.4
3Q93	10,142	3,054	282	1,541	1,580	16,599	61.1	18.4	1.7	9.3	9.5
4Q93	9,921	3,128	392	1,598	1,661	16,699	59.4	18.7	2.3	9.6	9.9
1Q94	10,224	3,221	524	1,660	1,934	17,563	58.2	18.3	3.0	9.5	11.0
2Q94	10,335	3,309	555	1,696	2,009	17,904	57.7	18.5	3.1	9.5	11.2
3Q94	10,378	3,407	569	1,740	2,087	18,181	57.1	18.7	3.1	9.6	11.5
4Q94	10,331	3,400	573	1,709	2,168	18,181	56.8	18.7	3.2	9.4	11.9
1Q95	10,736	3,561	839	1,753	2,320	19,208	55.9	18.5	4.4	9.1	12.1
2Q95	11,035	3,706	869	1,772	2,451	19,833	55.6	18.7	4.4	8.9	12.4
3Q95	11,330	3,862	908	1,827	2,590	20,517	55.2	18.8	4.4	8.9	12.6
4Q95	11,250	3,912	924	1,926	2,736	20,748	54.2	18.9	4.5	9.3	13.2

 $\begin{array}{c} \text{TABLE 3.5 - QUARTERLY \ TOLL \ REVENUES \ REPORTED \ TO \ SHAREHOLDERS - (CONT'D)} \\ \text{(DOLLAR \ AMOUNTS \ SHOWN \ IN \ MILLIONS)} \end{array}$

									MARKET SHAR	E	
	AT&T	MCIW	ORLDCOM 1/	SPRINT	OTHERS	TOTAL	AT&T	MCIW	ORLDCOM 1/ S	PRINT	OTHERS
		MCI	WORLDCOM					MCI	WORLDCOM		
1Q96	\$11,313	\$4,050	\$1,006	\$2,002	\$3,245	\$21,616	52.3 %	18.7 %	4.7 %	9.3 %	15.0 %
2Q96	11,223	4,158	1,038	2,053	3,385	21,857	51.3	19.0	4.7	9.4	15.5
3Q96	11,552	4,274	1,111	2,084	3,532	22,552	51.2	19.0	4.9	9.2	15.7
4Q96	11,541	4,302	1,215	2,164	3,684	22,906	50.4	18.8	5.3	9.4	16.1
1Q97	11,509	4,384	1,305	2,172	4,066	23,436	49.1	18.7	5.6	9.3	17.4
2Q97	11,582	4,353	1,339	2,219	4,268	23,760	48.7	18.3	5.6	9.3	18.0
3Q97	11,695	4,343	1,416	2,252	4,479	24,185	48.4	18.0	5.9	9.3	18.5
4Q97	11,388	4,539	1,508	2,312	4,701	24,449	46.6	18.6	6.2	9.5	19.2
1Q98	11,264	4,838	1,658	2,368	5,393	25,521	44.1	19.0	6.5	9.3	21.1
2Q98	11,301	4,935	1,744	2,382	5,628	25,990	43.5	19.0	6.7	9.2	21.7
3Q98	11,382	6,427		2,458	5,873	26,140	43.5	24.6		9.4	22.5
4Q98	10,995	6,613		2,582	6,128	26,318	41.8	25.1		9.8	23.3

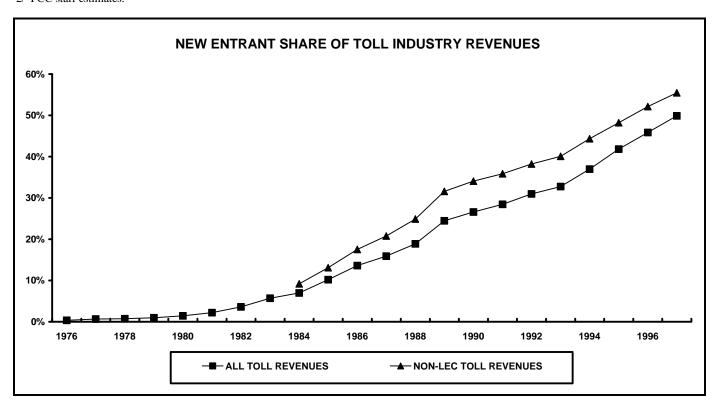
^{1/} WorldCom completed a merger with MCI 9/14/98. Beginning 3Q98 the revenues for the combined company, MCIWorldCom are reported in the MCI column. MCI and WorldCom Revenues for 1Q98 and 2Q98 and MCIWorldCom revenues for 3Q98 include local revenues, which were not separated from long distance revenues in reports to shareholders.

TABLE 3.6 - TOLL REVENUES BY TYPE OF PROVIDER

(DOLLAR AMOUNTS SHOWN IN MILLIONS)

		TRADITIONAL TOLL	CARRIER REVENUE 1/			
YEAR	TOTAL TOLL INDUSTRY REVENUE	AT&T AND ALASCOM TOLL REVENUE	LOCAL EXCHANGE CARRIERS TOLL REVENUE	NEW ENTRANTS TOLL REVENUE 2/	NEW ENTRANTS SHARE OF FOTAL TOLI	NEW ENTRANTS SHARE OF NON-LEC TOLL
1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994	\$19,867 22,575 26,079 29,551 33,335 39,180 43,919 46,970 51,156 54,815 57,468 58,519 62,600 66,024 66,792 68,558 71,983 75,290 80,726 85,475	\$19,800 22,429 25,891 29,262 32,855 38,309 42,332 44,298 35,190 37,041 36,782 35,481 35,679 34,827 34,139 34,722 35,828 36,051 37,495 38,394	\$12,401 12,185 12,873 13,736 15,113 14,840 14,690 14,115 13,615 13,757 13,375 11,332	\$67 146 188 289 480 871 1,587 2,672 3,565 5,589 7,813 9,302 11,807 16,160 17,748 19,513 22,297 24,660 29,856 35,749	0.3 % 0.6 0.7 1.0 1.4 2.2 3.6 5.7 7.0 10.2 13.6 15.9 18.9 24.5 26.6 28.5 31.0 32.8 37.0 41.8	9.2 % 13.1 17.5 20.8 24.9 31.6 34.1 35.8 38.2 40.1 44.3 48.2
1996 1997	93,281 98,569	39,264 39,470	11,248 9,942	42,769 49,157	45.8 49.9	52.1 55.5

^{1/} Prior to 1984 AT&T and Alascom toll revenue includes local exchange carrier toll revenue, which was not reported separately to the FCC prior to 2/ FCC staff estimates.



4. RESIDENTIAL LONG DISTANCE MARKET SHARES

Bill Harvesting data collected by PNR and Associates, Inc. (PNR) provides information on market shares in the long distance residential market, as opposed to the overall market for toll service. The Bill Harvesting data also provide information on the market shares of long distance carriers by state.

PNR is an economic research and consulting firm located in Jenkinstown, Pennsylvania. PNR conducts nationwide surveys of residential telephone usage and household expenditures on telephone service. These surveys, in which households are asked to mail copies of their phone bills for one month to PNR, are called Bill Harvesting studies.¹⁰

PNR has donated databases containing information from their 1995, 1996, and 1997 Bill Harvesting studies to the Commission.¹¹ PNR has granted the Commission permission to use these databases for research purposes and to publish the results. Tables 4.1, 4.2, and 4.3, which are based on this information, present market shares for the residential long distance market based on lines, revenues and direct dial minutes. These tables include long distance market shares for AT&T, MCI, Sprint and other long distance carriers.¹²

Results of the Bill Harvesting surveys are interesting in several respects. For instance, AT&T's share of the residential long distance market is larger than its share of the total toll market. This result is consistent regardless of whether market shares are measured in lines, revenues or minutes. AT&T's share of the residential long distance market, by all three measures, dropped sharply from 1995 to 1997. As was the case in the overall toll market for long distance services, most of the growth occurred among smaller competitors. The Bill Harvesting data suggest that AT&T had 67% of presubscribed residential lines in 1997.

The Bill Harvesting data also indicate that competition is present in all parts of the country. Indeed, smaller competitors appear to be as successful in rural states as in more urban states. Although the Bill Harvesting surveys include several thousand households, sample sizes for individual states can be quite small and therefore subject to large margins of error. Thus, these small sample sizes may limit the usefulness of these data in analyzing differences among states and differences over time.

¹⁰PNR and Associates, Inc. can be contacted by phone at (215) 886-9200, and by e-mail at info@pnr.com. Their address is 101 Greenwood Avenue, Suite 502, Jenkinstown, PA 19046.

¹¹PNR first conducted a Bill Harvesting study in 1994 but the 1994 survey apparently is not fully comparable with later surveys. The 1995 survey is known as *Bill Harvesting II* and the 1996 survey, *Bill Harvesting III*. The expanded 1997 survey, which contains over twice as many observations, was conducted by both PNR and Associates, Inc. and by Market Facts, Inc. and is known as *TLC MarketShare Monitor*.

¹²Market share for WorldCom is not separated from other long distance carriers in the residential market share data since WorldCom has a small share of the end user residential market.

TABLE 4.1 - MARKET SHARE OF RESIDENTIAL ACCESS LINES BY STATE

			1997	,				1990	5		1995				
STATE	AT&T	MCI	SPRINT	OTHERS	SAMPLE SIZE	AT&T	MCI	SPRINT	OTHERS	SAMPLE SIZE	AT&T	MCI	SPRINT	OTHERS	SAMPLE SIZE
Alabama	73.8 %	8.2 %	1.9 %	16.1 %	286	69.5 %	14.7 %	2.1 %	13.7 %	95	73.6 %	12.0 %	3.2 %	11.2 %	125
Arizona	66.2	11.8	9.7	12.3	293	73.2	8.7	11.6	6.5	138	78.2	12.1	5.8	3.9	206
Arkansas	68.9	7.8	4.7	18.6	172	72.5	13.0	1.4	13.0	69	75.3	12.3	4.9	7.4	81
California	66.5	15.5	7.0	11.0	1,888	75.6	12.8	6.3	5.3	742	75.9	15.3	4.8	4.0	793
Colorado	64.5	16.0	3.9	15.6	256	72.6	11.9	9.6	5.9	135	62.3	19.4	6.9	11.4	175
Connecticut	42.4	9.7	3.0	44.9	216	44.6	9.2	6.2	40.0	65	83.1	8.4	2.4	6.0	83
Delaware	65.6	13.1	8.2	13.1	61	64.7	23.5	11.8	0.0	17	87.5	8.3	0.0	4.2	24
Dist. of Columbia	52.0	18.0	8.0	22.0	25	69.2	15.4	0.0	15.4	13	90.9	9.1	0.0	0.0	11
Florida	69.3	10.0	8.4	12.2	1,115	71.4	10.2	6.4	12.0	451	75.6	12.5	4.3	7.6	536
Georgia	72.3	9.2	5.5	12.9	417	79.5	8.9	4.1	7.5	146	73.3	16.8	3.8	6.1	131
Idaho	61.9	8.3	8.3	21.4	84	72.5	10.0	7.5	10.0	40	78.7	14.8	3.3	3.3	61
Illinois	69.7	12.1	4.7	13.5	774	73.8	15.2	3.8	7.2	290	77.4	13.1	3.3	6.1	359
Indiana	66.8	10.3	3.1	19.8	382	77.0	12.1	3.0	7.9	165	75.3	10.5	4.7	9.5	190
Iowa	57.5	18.8	5.1	18.6	226	72.8	13.2	1.8	12.3	114	78.7	11.6	4.9	4.9	164
Kansas	64.7	10.2	8.6	16.6	187	60.7	14.8	8.2	16.4	61	72.1	13.5	3.6	10.8	111
Kentucky	71.1	8.0	6.2	14.7	268	71.6	14.7	2.0	11.8	102	74.7	11.6	2.1	11.6	146
Louisiana	66.8	10.2	4.9	18.1	274	70.5	12.5	4.5	12.5	88	70.0	18.5	4.6	6.9	130
Maine	72.5	11.9	3.1	12.5	80	81.5	18.5	0.0	0.0	27	74.6	14.3	1.6	9.5	63
		19.2		16.0	377	59.8	23.6	3.9			71.2				
Maryland	60.3		4.4						12.6	127		17.8	3.1	8.0	163
Massachusetts	76.3	10.9	3.7	9.1	340	74.6	9.8	4.1	11.5	122	82.8	8.9	2.2	6.1	180
Michigan	61.9	16.1	6.0	16.0	576	59.7	18.1	5.0	17.2	221	73.0	12.8	2.8	11.4	359
Minnesota	66.4	19.5	3.6	10.6	405	64.7	17.3	4.0	13.9	173	70.4	15.6	3.2	10.8	250
Mississippi	71.1	8.9	5.4	14.6	140	76.6	4.3	8.5	10.6	47	80.3	13.1	3.3	3.3	61
Missouri	66.7	13.0	6.0	14.3	300	59.1	17.4	3.8	19.7	132	73.8	11.6	6.7	7.9	164
Montana	66.9	14.9	1.4	16.9	74	67.7	16.1	0.0	16.1	31	80.8	11.5	1.9	5.8	52
Nebraska	67.1	14.7	4.2	14.0	143	71.2	17.3	1.9	9.6	52	73.6	13.9	1.4	11.1	72
Nevada	64.2	6.4	14.7	14.7	109	66.0	16.0	16.0	2.0	50	67.5	15.0	10.0	7.5	40
New Hampshire	76.5	9.1	3.8	10.6	66	77.5	10.0	10.0	2.5	40	80.5	7.3	7.3	4.9	41
New Jersey	74.9	11.3	4.5	9.3	462	77.5	11.9	5.6	5.0	160	84.2	10.4	1.0	4.5	202
New Mexico	61.8	13.7	6.9	17.6	102	64.9	10.5	7.0	17.5	57	78.7	11.5	4.9	4.9	61
New York	71.7	11.9	5.1	11.3	1,079	69.4	15.4	3.7	11.5	461	78.3	11.9	4.1	5.7	663
North Carolina	69.8	4.7	9.5	16.0	425	63.6	14.9	6.7	14.9	195	78.3	11.1	4.4	6.2	226
North Dakota	46.4	26.8	3.6	23.2	56	50.0	18.8	6.3	25.0	16	69.2	7.7	5.1	17.9	39
Ohio	66.0	12.2	6.3	15.5	717	68.3	14.4	4.8	12.5	271	71.5	10.9	5.2	12.4	386
Oklahoma	68.4	9.3	3.0	19.3	236	64.1	12.5	4.7	18.8	64	75.8	12.5	3.3	8.3	120
Oregon	72.5	6.1	4.9	16.4	244	64.1	11.7	6.8	17.5	103	79.6	7.3	4.4	8.8	137
Pennsylvania	65.6	14.2	4.6	15.6	873	66.2	18.0	1.6	14.1	305	70.5	12.4	4.1	13.1	590
Rhode Island	80.5	9.8	0.0	9.8	41	74.1	11.1	3.7	11.1	27	95.7	4.3	0.0	0.0	23
South Carolina	67.7	9.4	4.2	18.8	240	70.4	7.0	5.6	16.9	71	76.9	8.3	2.8	12.0	108
South Dakota	66.7	4.4	1.8	27.2	57	73.9	13.0	0.0	13.0	23	61.7	25.5	2.1	10.6	47
Tennessee	71.5	10.5	7.3	10.8	324	71.5	9.3	4.0	15.2	151	77.0	9.1	3.9	10.0	230
Texas	63.4	13.6	6.1	16.9	1,072	71.4	14.3	4.0	10.2	420	66.2	15.6	5.4	12.8	461
Utah	52.3	15.7	9.9	22.1	86	59.6	14.0	14.0	12.3	57	68.2	10.6	10.6	10.6	85
Vermont	68.2	16.7	9.1	6.1	33	94.1	0.0	5.9	0.0	17	64.7	17.6	11.8	5.9	17
Virginia	64.8	17.1	6.9	11.3	444	66.9	18.9	4.0	10.3	175	76.5	12.4	5.3	5.8	226
Washington	66.8	11.1	5.8	16.3	361	67.3	10.1	6.9	15.7	159	65.9	15.3	7.6	11.2	170
West Virginia	64.5	11.0	3.5	20.9	172	74.4	18.6	0.9	7.0	43	69.6	17.7	1.3	11.4	79
Wisconsin	70.1	14.7	3.5 3.5	20.9 11.7	536	67.9	13.9	4.2	13.9	165	75.5	14.9	2.5	7.1	322
Wyoming	70.1 75.0	12.5	2.1	10.4	48	80.0	6.7	0.0	13.9	165	94.1	0.0	0.0	7.1 5.9	17
Total	67.2	12.6	5.7	14.5	17,140	69.9	13.7	5.0	11.4	6,708	74.6	13.0	4.2	8.3	8,980

Source: PNR and Associates Inc., Bill Harvesting II and III and PNR and Associates Inc. and Market Facts Inc., TLC MarketShare Monitor.

TABLE 4.2 - MARKET SHARE OF RESIDENTIAL TOLL REVENUE BY STATE

			199	7				199	6				199	5	
STATE	AT&T	MCI		OTHERS	SAMPLE SIZE	АТ&Т	MCI		OTHERS	SAMPL E SIZE	АТ&Т	MCI	SPRINT		SAMPLE SIZE
Alabama	71.2 %	10.9 %	2.2 %	15.7 %	331	60.5 %	17.4 %	5.2 %	16.9 %	99	59.9 %	19.4 %	4.2 %	16.5 %	121
Arizona	55.6	15.9	13.6	15.0	346	56.9	10.4	19.6	13.2	107	74.8	14.1	3.9	7.1	192
Arkansas	62.6	9.7	3.7	24.1	205	70.5	12.3	2.6	14.6	76	65.9	11.5	4.7	17.9	73
California	58.7	17.3	7.2	16.8	2,125	68.4	15.3	7.1	9.2	752	70.4	16.2	6.9	6.5	741
Colorado	63.7	16.3	2.3	17.7	294	65.5	13.2	5.9	15.5	115	61.5	17.5	6.5	14.4	154
Connecticut	45.3	17.8	5.7	31.2	241	39.0	28.7	6.0	26.3	63	71.2	18.6	1.3	9.0	87
Delaware	66.5	11.1	10.5	12.0	72	55.9	19.5	10.7	13.9	18	79.4	10.9	0.0	9.7	23
Dist. of Columbia	46.2	27.3	6.4	20.1	29	74.6	20.5	1.8	3.1	15	83.6	9.0	0.0	7.4	11
Florida	67.5	12.9	5.2	14.4	1,251	65.0	12.7	9.2	13.0	438	67.6	12.7	8.8	10.9	503
Georgia	60.8	12.3	6.5	20.5	471	75.7	9.7	3.2	11.4	169	73.6	11.7	6.5	8.2	127
Idaho	64.8	6.8	5.6	22.9	102	75.3	8.3	5.5	11.0	31	71.2	16.5	4.1	8.2	60
Illinois	61.2	15.5	5.2	18.0	892	63.5	14.4	11.5	10.6	289	69.0	19.7	2.6	8.7	342
Indiana	62.7	13.1	6.2	18.0	446	64.0	15.4	4.9	15.7	161	73.0	11.2	4.3	11.5	183
Iowa	53.3	21.3	3.3	22.0	256	65.1	11.7	2.5	20.8	104	70.6	12.6	10.0	6.7	146
Kansas	57.7	9.8	9.6	22.9	222	48.1	17.2	11.4	23.4	73	73.4	11.6	4.2	10.9	108
Kentucky	65.5	10.0	5.8	18.7	333	66.9	18.6	1.6	12.9	109	68.6	16.4	1.1	14.0	143
Louisiana	55.8	15.3	5.7	23.3	340	72.4	8.3	2.9	16.4	106	62.5	12.6	5.4	19.5	128
Maine	64.5	8.5	4.5	22.6	97	55.6	18.5	0.0	25.9	25	63.1	17.3	0.3	19.4	58
Maryland	54.7	22.1	4.8	18.4	436	52.0	26.6	8.0	13.3	135	73.8	13.2	5.5	7.5	154
Massachusetts	73.4	12.4	3.6	10.6	378	75.4	10.6	1.6	12.4	117	75.6	10.6	5.4	8.4	169
Michigan	52.1	18.9	7.8	21.2	684	57.0	20.7	3.5	18.9	217	63.3	16.2	5.0	15.5	341
Minnesota	60.2	22.0	5.2	12.6	450	51.9	27.6	6.7	13.9	138	60.2	22.5	4.0	13.3	230
Mississippi	61.8	12.5	1.9	23.8	167	62.4	8.9	2.9	25.9	49	89.7	6.0	0.9	3.3	60
Missouri	58.3	15.7	7.2	18.8	368	55.3	19.9	4.0	20.8	135	68.0	14.2	3.3	14.6	151
Montana	59.1	14.1	1.7	25.1	89	62.4	16.1	0.0	21.5	25	78.0	18.7	1.7	1.6	50
Nebraska	57.1	25.5	6.8	10.5	166	63.5	20.2	1.6	14.7	46	60.4	17.5	4.3	17.8	69
Nevada	65.6	4.0	14.7	15.7	121	57.8	17.4	18.6	6.2	47	67.9	11.7	6.4	14.0	33
New Hampshire	80.2	8.9	1.4	9.6	79	67.5	10.0	15.5	7.0	39	68.1	16.3	5.4	10.2	40
New Jersey	66.2	14.5	5.0	14.3	514	71.7	14.2	5.1	9.0	166	77.6	15.1	1.4	5.9	195
New Mexico	55.6	17.5	5.7	21.2	119	61.2	8.9	7.8	22.1	48	71.4	7.3	9.0	12.3	56
New York	66.6	15.8	3.3	14.3	1,267	63.8	18.8	7.4	10.0	449	71.1	15.0	5.6	8.2	603
North Carolina	65.0	7.7	9.6	17.6	504	60.6	16.2	7.2	16.1	189	78.4	9.4	6.0	6.1	216
North Dakota	52.4	19.0	9.5	19.1	65	36.7	24.4	7.5	31.4	13	68.7	5.0	5.5	20.8	34
Ohio	61.5	14.9	6.0	17.6	858	66.1	15.5	4.3	14.1	275	69.1	10.8	5.3	14.8	358
Oklahoma	67.6	9.4	4.0	19.0	274	58.4	16.6	8.2	16.8	77	65.6	23.5	3.5	7.4	109
Oregon	58.0	7.7	5.0	29.3	299	66.0	15.4	3.2	15.5	105	69.8	7.8	6.0	16.4	132
Pennsylvania	59.5	15.2	4.6	20.7	1,054	62.0	19.1	2.3	16.6	322	62.4	14.8	4.2	18.5	574
Rhode Island	79.1	10.7	0.7	9.5	50	68.6	21.0	2.9	7.5	26	89.6	8.1	0.0	2.2	23
South Carolina	58.7	9.9	4.7	26.8	262	52.9	22.3	9.7	15.1	76	72.2	7.7	10.3	9.8	108
South Dakota	57.5	2.6	5.6	34.4	66	70.2	19.2	0.0	10.6	22	56.8	25.1	3.5	14.5	45
Tennessee	63.8	14.1	4.9	17.3	381	67.3	16.4	4.3	12.0	171	71.1	12.0	6.4	10.5	219
Texas	56.2	17.8	5.4	20.6	1,272	58.2	17.5	8.8	15.5	471	58.2	20.6	6.7	14.4	418
Utah	51.7	13.1	9.6	25.6	104	65.7	9.3	12.6	12.4	39	76.9	10.2	10.5	2.3	73
Vermont	58.3	34.9	1.9	4.9	38	89.6	0.0	10.4	0.0	14	58.1	13.1	0.5	28.3	15
Virginia	55.7	23.3	6.1	14.9	510	65.5	18.5	3.7	12.3	177	69.4	13.2	9.1	8.3	211
Washington	64.7	11.7	5.4	18.2	435	57.4	8.5	11.1	23.0	156	59.7	13.2	11.8	15.2	153
West Virginia	56.9	17.7	3.3	22.1	204	74.4	7.3	0.8	17.5	40	67.4	15.1	0.5	17.1	74
Wisconsin	62.8	17.4	3.1	16.7	610	64.3	17.1	3.4	15.2	157	68.3	15.4	4.0	12.3	321
Wyoming	77.2	10.3	1.2	11.3	53	88.8	4.3	0.0	6.8	10	78.2	2.8	17.1	1.9	16
Total	60.9	15.4	5.6	18.1	19,930	63.3	16.0	6.6	14.1	6,701	68.5	14.6	5.6	11.3	8,450

Source: PNR and Associates Inc., Bill Harvesting II and III and PNR and Associates Inc. and Market Facts Inc., TLC MarketShare Monitor. Taxes are not included in residential toll revenue.

TABLE 4.3 - MARKET SHARE OF RESIDENTIAL DIRECT DIAL TOLL MINUTES BY STATE

	1997					1996						1995				
STATE	AT&T	MCI	SPRINT	OTHERS	MINUTES*	AT&T	MCI	SPRINT	OTHERS	MINUTES*	AT&T	MCI	SPRINT	OTHERS	MINUTES*	
Alabama	73.2 %	8.2 %	1.8 %	16.8 %	39,443	58.5 %	12.4 %	6.4 %	22.7 %	11,787	67.3 %	16.0 %	5.7 %	11.0 %	16,385	
Arizona	58.1	11.4	16.2	14.3	43,786	49.5	14.5	17.5	18.5	14,300	76.2	13.9	3.0	6.9	26,871	
Arkansas	70.3	6.9	3.1	19.7	24,759	58.8	22.8	4.8	13.7	5,802	52.9	20.9	4.6	21.6	6,936	
California	59.3	17.1	7.1	16.4	328,378	68.3	15.4	7.5	8.9	104,144	70.9	17.3	7.6	4.1	96,752	
Colorado	61.5	18.5	3.5	16.4	36,811	58.4	16.5	6.3	18.8	14,565	59.6	21.4	4.3	14.7	20,972	
Connecticut	46.9	14.3	6.6	32.2	32,204	35.8	37.8	5.4	20.9	8,674	76.0	15.0	1.3	7.7	11,673	
Delaware	64.4	14.1	9.6	11.9	8,229	45.0	11.9	16.1	27.1	1,544	77.3	11.4	0.0	11.3	2,387	
	38.4	38.0	9.3	14.3	4,035	61.0	32.8	0.0	6.2	3,690	75.6	14.5	0.0	10.0	1,334	
Florida	69.0	10.8	6.7	13.5	187,628	61.1	14.1	9.8	15.0	61,047	71.6	13.4	6.9	8.1	72,362	
Georgia	61.5	12.0	7.3	19.1	65,843	69.1	15.7	3.9	11.3	23,987	72.4	13.3	7.0	7.3	19,640	
Idaho	61.3	8.7	4.9	25.1	10,120	73.3	7.4	4.7	14.6	3,591	69.4	18.4	6.0	6.3	5,638	
Illinois	63.4	15.7	4.7	16.2	125,319	61.3	17.3	10.0	11.4	38,738	70.4	22.3	2.1	5.3	45,772	
Indiana	66.3	11.1	4.7	17.9	56,457	68.1	9.7	6.8	15.3	18,238	76.0	10.2	2.6	11.1	19,449	
Iowa	54.4	23.3	3.6	18.8	34,479	61.8	14.2	1.7	22.3	13,762	67.1	15.5	11.3	6.2	23,683	
Kansas	58.4	8.2	11.6	21.7	23,412	46.4	17.2	12.9	23.5	10,014	71.2	11.8	4.2	12.8	12,259	
Kentucky	68.1	11.0	4.7	16.2	33,209	71.4	11.8	0.7	16.1	12,504	71.1	17.1	1.6	10.2	12,544	
Louisiana	56.5	13.9	7.2	22.3	37,346	70.2	7.7	2.9	19.2	9,366	63.9	21.0	10.9	4.2	15,285	
Maine	66.6	8.6	5.1	19.7	10,802	40.9	11.8	0.0	47.3	2,037	56.7	18.6	0.0	24.7	4,986	
Maryland	55.6	18.7	5.1	20.6	64,160	49.6	25.9	7.1	17.3	16,987	68.7	16.4	4.1	10.9	19,365	
Massachusetts	70.9	12.7	4.9	11.4	40,035	67.0	11.5	3.3	18.2	10,437	74.8	9.8	5.2	10.2	21,182	
Michigan	55.7	18.6	7.1	18.5	87,551	56.4	22.7	3.2	17.7	26,766	62.4	15.8	4.8	17.0	38,142	
Minnesota	61.5	21.2	4.5	12.8	61,230	48.7	27.0	8.6	15.6	17,077	56.4	26.2	4.9	12.6	21,698	
Mississippi	63.9	12.2	3.2	20.7	15,893	57.7	7.1	5.3	30.0	5,276	92.5	5.4	0.2	1.9	6,860	
Missouri	59.8	16.0	6.4	17.8	46,470	51.6	13.7	1.3	33.4	16,546	74.9	14.7	5.3	5.1	16,175	
Montana	56.0	14.8	2.0	27.2	11,115	63.8	9.4	0.0	26.8	4,125	63.2	30.8	0.0	6.0	6,185	
Nebraska	56.1	19.1	12.1	12.6	20,733	60.0	24.9	3.3	11.9	5,094	61.8	13.4	6.8	18.0	6,534	
Nevada	62.7	3.8	15.0	18.5	17,011	61.3	13.0	23.4	2.3	6,279	65.8	12.0	8.4	13.8	5,605	
New Hampshire		9.0	2.1	11.4	9,505	64.0	9.5	14.9	11.6	4,919	76.4	5.2	8.1	10.2	4,870	
New Jersey	67.9	12.8	5.5	13.8	78,978	76.1	10.2	4.5	9.2	23,931	79.6	13.3	3.0	4.1	26,503	
New Mexico	50.4	18.5	8.9	22.2	14,798	58.8	9.3	13.0	18.9	6,425	74.0	8.0	7.2	10.8	9,266	
New York	64.4	18.5	4.1	13.0	162,745	64.6	18.0	6.9	10.4	54,840	68.2	18.3	6.7	6.8	76,245	
North Carolina	65.8	5.3	12.3	16.7	69,927	58.1	15.2	9.0	17.7	24,741	76.9	10.0	7.6	5.5	31,630	
North Dakota	45.9	20.9	6.8	26.4	8,402	35.8	23.0	0.0	41.2	1,550	67.2	6.3	1.6	24.9	4,837	
Ohio	61.4	14.4	6.7	17.4	98,565	63.2	16.4	5.7	14.7	31,973	71.8	9.7	4.0	14.5	40,054	
Oklahoma	65.7	9.9	2.8	21.7	34,317	38.9	17.0	17.1	27.1	5,272	66.4	22.3	3.4	7.9	12,569	
Oregon	63.0	7.2	4.2	25.5	32,673	62.0	16.8	4.9	16.3	11,164	68.0	9.2	6.9	15.8	14,035	
Pennsylvania	59.8	16.6	5.9	17.8	117,069	56.8	20.2	2.4	20.6	34,951	60.6	16.4	5.3	17.7	58,224	
Rhode Island	81.3	8.2	0.0	17.8	5,623	61.9	20.2	3.8	12.3	2,783	88.3	9.8	0.0	17.7	2,447	
South Carolina	59.1	8.4	5.5	27.0	36,609	59.0	14.9	13.4	12.3	9,329	88.3 74.4	9.8 12.4	7.2	6.0	14,387	
South Dakota	58.4	8.4 1.7	0.3	39.5	8,025	72.8	17.1	0.0	10.1	1,976	54.6	32.2	2.8	10.4		
Tennessee	65.9	10.5	6.9	16.7	48,659	64.7	16.3	5.2	13.9	24,508	75.2	11.6	4.4	8.9	7,173 24,362	
Texas		16.8	5.9	21.5	- ,		15.2	9.9		,	57.8	23.9	7.3		,	
Utah	55.7 45.5	16.8	13.8	26.0	163,883	58.3 41.6	18.1	9.9 14.5	16.6 25.8	59,461 3,923	57.8 68.9	18.1	7.3 9.6	11.1	58,182	
	74.2	9.7			11,041	80.2	0.0	14.5			34.6	39.9		3.3	7,160	
Vermont Virginia	57.8	23.8	11.2 6.5	4.8 12.0	4,867 77,465	64.0	20.2	4.8	0.0 11.0	1,190 24,394	67.1	39.9 15.7	0.6 11.6	24.9 5.7	2,677 30,744	
Washington	63.1	11.3			48,929		10.4	6.7	24.6	17,264			13.0			
U			7.0	18.6	- ,	58.3					56.6	15.9		14.5	15,038	
West Virginia	63.8	11.9	1.4	23.0	22,992	65.4	9.7	2.0	23.0	3,896	78.3	13.3	0.0	8.4	6,186	
Wisconsin Wyoming	63.7 73.7	17.9 12.2	3.6 1.1	14.8 12.9	66,962 8,017	55.2 80.9	22.7 7.3	4.1 0.0	18.0 11.7	20,015 939	70.7 65.1	17.1 0.0	2.7 31.5	9.5 3.4	28,385 1,588	
Total	61.7	14.8	6.2	17.3	2,596,506	61.3	16.4	7.0	15.4	835,817	68.6	16.2	5.8	9.4	1,033,236	

 $[\]ensuremath{^{*}}$ Total minutes of direct dial toll calling for households in the Bill Harvesting study.

Source: PNR and Associates Inc., Bill Harvesting II and III and PNR and Associates Inc. and Market Facts Inc., TLC MarketShare Monitor.

5. THE INTERNATIONAL LONG DISTANCE TELEPHONE MARKET

Prior to 1985, AT&T was the monopoly provider of international long distance telephone service for U.S. customers. Since 1985 new firms have entered the international long distance business, reducing AT&T's share of this market.

Table 5.1 summarizes the portion of international toll revenues directly attributable to international telephone service.¹³ The information in this table is from reports to the FCC by international long distance carriers and does not include international revenues generated from sources such as telegraph, telex, and private line services. In this respect the figures reported in Table 5.1 are different from those shown in Table 3.4.

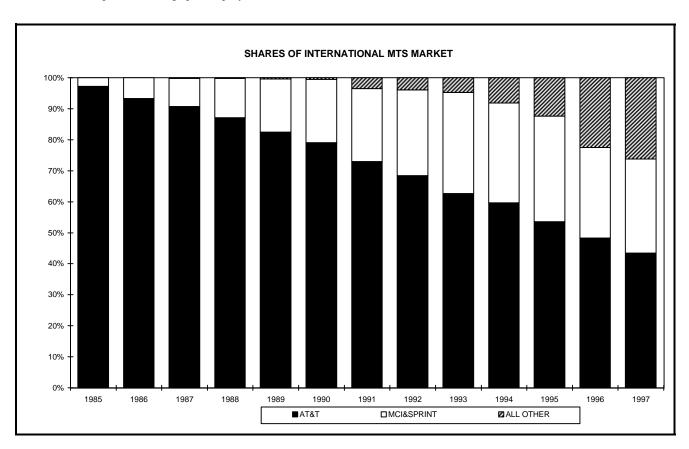
In 1997 AT&T's international telephone revenues were two and one-half times their 1985 values. International telephone market revenues for the entire industry have grown even faster during this time. In 1997 industry revenues were over \$19 billion, over five times 1985 industry revenues. Consequently, AT&T's formerly monopolized share of the market has fallen to 44%. At the same time MCI has amassed a 22% share of this market followed by Sprint with 8%. More recently WorldCom, who had no international revenues in 1985, has increased its share of the international long distance market to over 4%.

¹³The international telephone service revenue figures shown in Table 5.1, which become available for each year in the second half of the following year, are taken from Table 2 in the *Trends in the International Telecommunications Industry* report published by the FCC.

TABLE 5.1 - INTERNATIONAL TELEPHONE SERVICE

	REVENUES FOR FACILITIES-BASED AND RESALE SERVICE 1/ (DOLLARS AMOUNTS SHOWN IN MILLIONS)						MARKET SHARES						
	AT&T 2/	MCI 3/	SPRINT 3/	WORLDCOM	OTHER 4/	TOTAL	AT&T	MCI	SPRINT	WORLDCOM	OTHER		
1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997	\$3,197 3,392 3,738 4,307 5,050 5,693 6,361 6,962 7,314 7,482 7,984 8,425 8,559 8,394	\$78 197 305 517 795 1,175 1,552 2,113 2,814 3,008 4,019 3,592 4,282	\$18 70 127 219 387 464 692 849 1,076 1,285 1,357 1,581 1,573	\$5 40 100 338 479 775 801	\$10 13 26 43 325 374 472 759 1,465 3,209 4,258	\$3,197 3,487 4,004 4,750 5,800 6,901 8,042 9,536 10,690 11,944 13,375 15,745 17,715 19,309	100.0 % 97.3 93.3 90.7 87.1 82.5 79.1 73.0 68.4 62.6 59.7 53.5 48.3 43.5	2.2 % 4.9 6.4 8.9 11.5 14.6 16.3 19.8 23.6 22.5 25.5 20.3 22.2	0.5 % 1.7 2.7 3.8 5.6 5.8 7.3 7.9 9.0 9.6 8.6 8.9 8.1	0.1 % 0.4 0.8 1.9 3.0 4.4 4.1	0.2 % 0.2 0.4 0.5 3.4 3.5 4.0 6.3 9.3 18.1 22.1		

- 1/ International message telephone service of the domestic United States for the year ending December 31. Company specific revenue information
- 2/ AT&T 1984-1990 data are from 43.61 international traffic reports, minus revenue for Alaska, Hawaii, and Puerto Rico, plus revenue for Cana Canada and Mexico were taken from Appendices B & C of Trends in the International Telecommunications Industry.
- 3/ MCI and Sprint 1985-1990 data are from 43.61 international traffic reports, less data for Alaska. MCI and Sprint were not required to report For these years, non-AT&T traffic estimated in Appendices B & C of Trends in the International Telecommunications Industry have been apper Sprint based on reported international revenues.
- 4/ Data for 1984-1990 exclude international calls placed from or to Alaska, Hawaii, and Puerto Rico. Data for 1984 do not include about \$5 mill American Telephone and Telegraph Company.



APPENDIX 1: <u>AT&T'S MARKET SHARE</u>

NECA revisions of total industry minutes affect the market share calculated for AT&T because total minutes represent the denominator of the market-share ratio. In Chart A1.1, AT&T's share of interstate switched minutes (based on current information) is compared with its market share as first published. As shown there, AT&T's market share is usually highest initially and then decreases after NECA revises the estimates.

Chart A1.2 is a composite of the alternative measures of AT&T's market share based on minutes, lines and revenues. By all measures AT&T's share of the long distance market has decreased significantly since 1984.

CHART A1.1 - AT&T SHARE OF INTERSTATE MINUTES

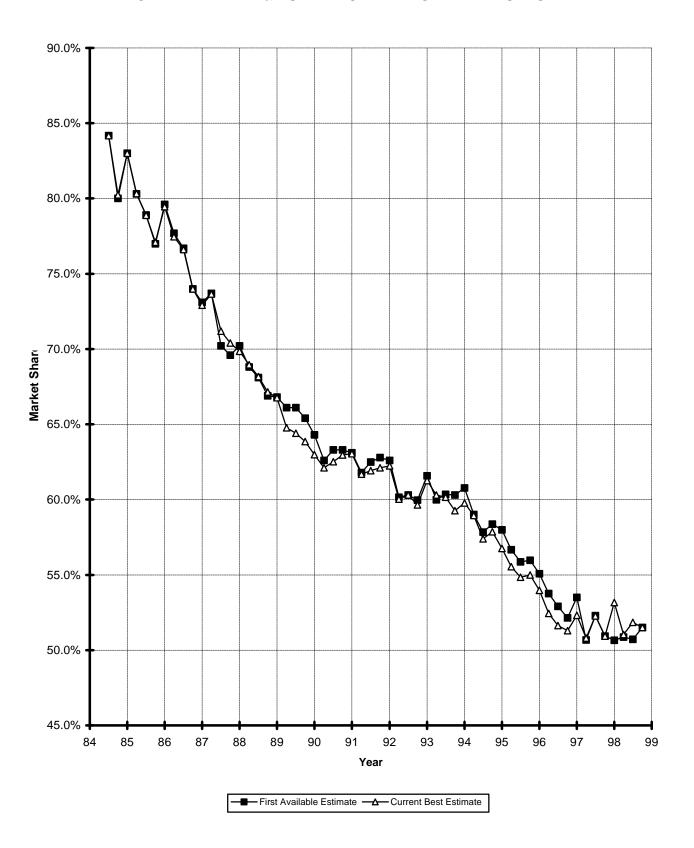
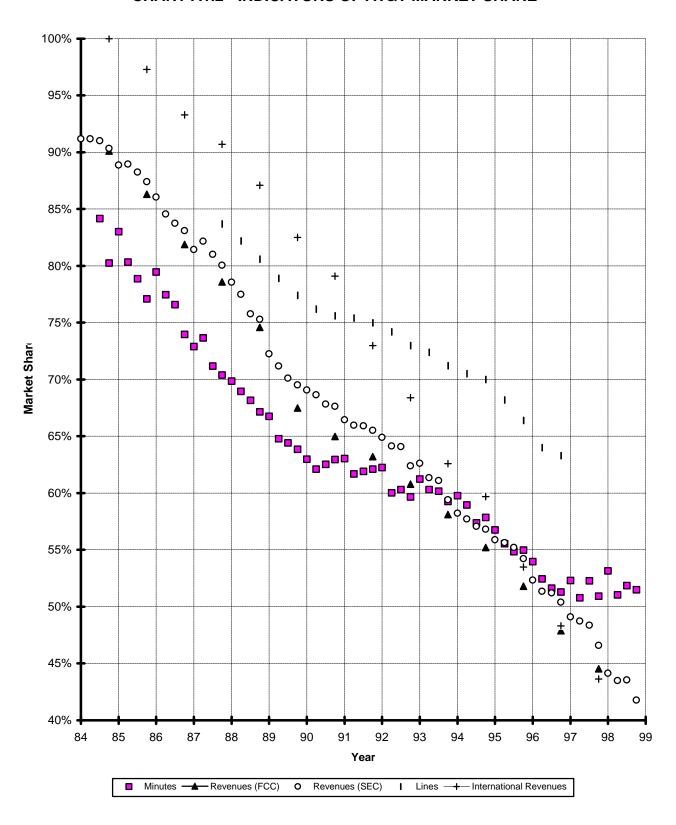


CHART A1.2 - INDICATORS OF AT&T MARKET SHARE



APPENDIX 2: PREMIUM VS. NON-PREMIUM ACCESS MINUTES

Table A2.1 shows "premium" minutes as reported by NECA separately from "non-premium" minutes. Premium minutes consist of all carriers dial 1 access minutes in equal access areas and only AT&T's access minutes in areas where equal access is not available. Prior to AT&T's divestiture of its local operating companies in 1984, competitors were unable to obtain connections with local telephone companies that were of equal quality to those offered to AT&T. After the divestiture, local companies began to offer equal access to all long distance carriers. More than 99% of the nation's lines have now been converted to equal access. As non-equal access minutes have virtually disappeared, there is no longer any significant difference between the number of total minutes and the number of equal access minutes.

APPENDIX 2

TABLE A2.1 - PREMIUM VS. NON-PREMIUM ACCESS MINUTES (FIGURES SHOWN IN BILLIONS)

	TOTAL INDUSTRY						
	PREMIUM	NON-PREMIUM	TOTAL				
	MINUTES	MINUTES	MINUTES				
1984 THIRD QUARTER	32.0	5.5	37.5				
FOURTH QUARTER	33.6	6.0	39.6				
1985 FIRST QUARTER	32.9	6.6	39.6				
SECOND QUARTER	34.9	6.6	41.5				
THIRD QUARTER	36.6	6.2	42.8				
FOURTH QUARTER	38.0	5.3	43.3				
TOTAL 1985	142.4	24.7	167.1				
1986 FIRST QUARTER	38.8	4.3	43.0				
SECOND QUARTER	41.0	3.8	44.8				
THIRD QUARTER	43.2	3.5	46.7				
FOURTH QUARTER	45.5	3.0	48.5				
TOTAL 1986	168.5	14.6	183.1				
1987 FIRST QUARTER	48.0	3.2	51.2				
SECOND QUARTER	49.3	3.1	52.5				
THIRD QUARTER	52.1	2.9	55.0				
FOURTH QUARTER	54.4	2.6	57.0				
TOTAL 1987	203.9	11.9	215.7				
1988 FIRST QUARTER SECOND QUARTER THIRD QUARTER FOURTH QUARTER TOTAL 1988	56.6	2.4	59.0				
	57.3	2.3	59.6				
	59.8	2.3	62.1				
	61.8	2.2	64.0				
	235.4	9.2	244.6				
1989 FIRST QUARTER SECOND QUARTER THIRD QUARTER FOURTH QUARTER TOTAL 1989	64.1	2.1	66.2				
	66.5	2.0	68.5				
	67.7	2.0	69.7				
	70.7	1.9	72.6				
	269.1	8.0	277.1				
1990 FIRST QUARTER	72.9	1.9	74.7				
SECOND QUARTER	74.0	1.8	75.8				
THIRD QUARTER	76.1	1.8	77.9				
FOURTH QUARTER	77.4	1.6	79.1				
TOTAL 1990	300.4	7.1	307.4				
1991 FIRST QUARTER	77.7	1.5	79.2				
SECOND QUARTER	80.4	1.5	81.9				
THIRD QUARTER	81.2	1.4	82.6				
FOURTH QUARTER	83.0	1.4	84.4				
TOTAL 1991	322.2	5.8	328.0				

TABLE A2.1 - PREMIUM VS. NON-PREMIUM ACCESS MINUTES (CONT'D) (FIGURES SHOWN IN BILLIONS)

APPENDIX 2

	TOTAL INDUSTRY						
	PREMIUM	NON-PREMIUM	TOTAL				
	MINUTES	MINUTES	MINUTES				
1992 FIRST QUARTER	84.5	1.2	85.6				
SECOND QUARTER	85.4	1.1	86.5				
THIRD QUARTER	86.8	1.0	87.9				
FOURTH QUARTER	88.8	1.0	89.8				
TOTAL 1992	345.5	4.2	349.7				
1993 FIRST QUARTER SECOND QUARTER THIRD QUARTER FOURTH QUARTER TOTAL 1993	89.8 90.4 92.9 95.2 368.3	0.9 0.8 0.7 0.6	90.6 91.2 93.6 95.9 371.2				
1994 FIRST QUARTER	98.1	0.6	98.7				
SECOND QUARTER	97.4	0.5	97.9				
THIRD QUARTER	101.4	0.5	101.9				
FOURTH QUARTER	102.4	0.5	102.9				
TOTAL 1994	399.3	2.1	401.4				
1995 FIRST QUARTER	105.1	0.4	105.6				
SECOND QUARTER	106.4	0.4	106.8				
THIRD QUARTER	108.6	0.4	109.0				
FOURTH QUARTER	110.2	0.4	110.6				
TOTAL 1995	430.3	1.6	431.9				
1996 FIRST QUARTER	115.3	0.3	115.7				
SECOND QUARTER	114.4	0.3	114.7				
THIRD QUARTER	117.2	0.3	117.5				
FOURTH QUARTER	120.0	0.2	120.2				
TOTAL 1996	466.9	1.2	468.1				
1997 FIRST QUARTER	121.9	0.2	122.1				
SECOND QUARTER	124.3	0.2	124.4				
THIRD QUARTER	124.8	0.2	124.9				
FOURTH QUARTER	125.7	0.2	125.8				
TOTAL 1997	496.6	0.1	497.3				
1998 FIRST QUARTER SECOND QUARTER THIRD QUARTER FOURTH QUARTER TOTAL 1998	123.9	0.1	124.0				
	131.3	0.1	131.4				
	131.8	0.1	131.9				
	132.7	0.1	132.8				
	519.8	0.4	520.1				

Customer Response
Long Distance Market Shares, March 1999 Publication:

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 be	est desc	ribes you:		
	press current telecommuni potential telecommu business customer e consultant, law fir other business cust academic/student residential custome FCC employee other federal gover state or local gove Other (please specify)	unication evaluatir cm, lobby comer er rnment en ernment e	ns carrio ng vendo: vist mployee		options	
2.	Please rate the report:	Excellent	Good	Satisfactory	Poor	No opinion
	Data accuracy Data presentation Timeliness of data Completeness of data Text clarity Completeness of text	(_) (_) (_) (_) (_)	(_) (_) (_) (_) (_)	(_) (_) (_) (_) (_)	(_) (_) (_) (_) (_)	(_) (_) (_) (_) (_)
3.	Overall, how do you rate this report?	Excellent (_)	Good ()	Satisfactory	Poor (_)	No opinion
4.	How can this report be in	mproved?				
5.	May we contact you to dis Name: Telephone #:	scuss pos	ssible i	mprovements	;?	
	To discuss the information Katie Rangos, or James Ei equipme	isner at	202-418	contact: 0-0940, or f 18-0484.	James Zo Or user	olnierek, s of TTY
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