

The Industry Analysis Division's
Reference Book
of
Rates
Price Indices
and
Expenditures for Telephone Service

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Preface

This issue of the Reference Book represents a redesign and refocusing of the publication. With this issue, the focus on data about rates and expenditures is intensified. Discussion of methods and trends in rates, price indices, and expenditures for telephone service has been reduced. We have added new tables on urban and rural local rates, household expenditures, and residential toll rates. We have also added a section at the end of each chapter to direct readers to sources of additional information. Interested readers can turn to the 1995 issue of the Reference Book for analysis of the long term trends in the industry. This issue will remain available on the FCC-State Link at www.fcc.gov/ccb/stats on the internet.

The Reference Book focuses on domestic telecommunications. Those interested in international telecommunications are encouraged to refer to the Industry Analysis Division's Trends in the U.S. International Telecommunications Industry, which is also available on the FCC-State Link.

Table of Contents

I. Rates for Local Service	1
A. Rates in Urban Areas	1
1. Residential Rates	1
Table 1.1 Residential Rates for Local Service as of October 15, 1997	3
Table 1.2 Average Residential Rates for Local Service, 1986-1997	4
Table 1.3 Residential Rates in the Sample Cities as of October 15, 1997	5
Table 1.4 Monthly Residential Rates in the Sample Cities, 1990-1997	7
Table 1.5 Charges for Connection of a Residential Line in the Sample Cities, 1990-1997	9
2. Rates for Low-Income Households	11
Table 1.6 Comparison of Standard Local Rates to Subsidized Rates	12
Table 1.7 Lifeline and Link-up Rates in the Sample Cities as of October 15, 1997	13
3. Business Rates	15
Table 1.8 Average Local Rates for Businesses with a Single Line as of October 15, 1997	16
Table 1.9 Average Local Rates for Businesses with a Single Line, 1989-1997	17
Table 1.10 Telephone Rates in the Sample Cities for a Business with a Single Line as of October 15, 1997	18
Table 1.11 Monthly Telephone Rates in the Sample Cities for a Business with a Single Line, 1990-1997 ...	20
Table 1.12 Connection Charges for a Single Business Line in the Sample Cities, 1990-1997	22
Table 1.13 Average Local rates for a Business with a Key System Line as of October 15, 1997	24
Table 1.14 Average Local Rates for a Business with a Key System Line, 1989-1997	25
Table 1.15 Monthly Rates in the Sample Cities for a Business with a Key System Line, 1990-1997 ...	26
Table 1.16 Connection Charges in the Sample Cities for Three Key System Business Lines, 1990-1997 ..	28
Table 1.17 Average Local Rates for a Business with a PBX Trunk as of October 15, 1997	30
Table 1.18 Average Local Rates for a Business with a PBX Trunk, 1989-1997	31

Table 1.19	Monthly Rates in the Sample Cities for a Business with a PBX Trunk, 1990-1997	32
Table 1.20	Connection Charges in the Sample Cities for Three PBX Trunks, 1990-1997	34
B. Rates in Rural Areas		36
Table 1.21	Average Monthly Rates of RUS Borrowers by State, 1996	37
Table 1.22	Average Monthly Rates of RUS Borrowers, 1994-1996	38
Table 1.23	Average Monthly Rates of RUS Borrowers by the Number of Lines Served, 1996	38
Table 1.24	Average Monthly Rates of RUS Borrowers by the Number of Exchanges Served, 1996	38
C. Additional Sources of Information on Local Rates		39
II. Toll Rates		40
A. Residential Rates		40
Table 2.1	Residential Basic Schedule Rates of AT&T, MCI, and Sprint for a 10-minute Day Call	42
Table 2.2	Residential Basic Schedule Rates of AT&T, MCI, and Sprint for a 10-minute Evening Call	43
Table 2.3	Residential Basic Schedule Rates of AT&T, MCI, and Sprint for a 10-minute Night Call	44
Table 2.4	Average Charge per Billed Minute for Price-sensitive Residential Callers	45
Table 2.5	AT&T Basic Schedule Rates for 10-minute Residential Calls, 1927-1998	46
B. Business Rates		47
Table 2.6	Business Basic Schedule Rates of AT&T, MCI, and Sprint for a 10-minute Day Call	48
Table 2.7	Business Basic Schedule Rates of AT&T, MCI, and Sprint for a 10-minute Night Call	49
C. Additional Sources of Information on Toll Rates		50
III. Expenditures on Telephone Service		51
A. Residential Expenditures		51
Table 3.1	Average Annual Household Expenditures by Household Location	53
Table 3.2	Average Annual Household Expenditures by Race and National Origin	54
Table 3.3	Average Annual Household Expenditures by Household Income	55
Table 3.4	Average Annual Household Expenditures by Age of the Head of the Household	56

Table 3.5	Average Annual Household Expenditures by Size of the Household	57
Table 3.6	Household Telecommunications Expenditures by Type of Provider	58
B. Business Expenditures		59
Table 3.7	Use of Communications by U.S. Industry, 1992	60
Table 3.8	Use of Commodities by the U.S. Communications Industry	63
C. Additional Sources of Information on Expenditures for Telephone Service		65
IV. Price Indices		66
A. Consumer Price Indices		66
Table 4.1	Changes in the Consumer Price Indices Since 1980 ...	67
Chart 1	Consumer Price Indices for Toll Service since 1984	68
Chart 2	Consumer Price Indices for Toll Service since 1984, Adjusted for Inflation	69
Table 4.2	Monthly Consumer Price Indices	70
Table 4.3	New Consumer Price Indices	78
B. Producer Price Indices		79
Table 4.4	Monthly Producer Price Indices	80
Table 4.5	Discontinued Monthly Producer Price Indices	85
C. Sources of Additional Information on Price Indices		101
Appendix A - Long-term Trends		102
Customer Response Survey		110

I. Rates for Local Service

The billing structure for local telephone service can be broadly classified as either flat-rate or message/measured service. Customers subscribing to flat-rate service do not pay any additional fees for calls within their local calling area, regardless of the number of calls they place. Alternatively, customers subscribing to message or measured service pay an additional charge for calls made within the local calling area. Message service denotes those plans which bill customers by the call, regardless of the length of the call, while measured service plans bill customers based upon the length of the call. Either plan may also base charges on the distance between the calling and called party. Under either message or measured service, some amount of calling may be included in the monthly basic charge and therefore be made without additional cost to the customer.

In addition to monthly charges for basic service and calling charges, customers pay a number of other charges for telephone service. The federal subscriber line charge is a line item that local exchange carriers are authorized to charge in order to recover a portion of the interstate costs of providing local phone service. Some states, such as Indiana, authorize local carriers to charge a state subscriber line charge. In some areas there are additional surcharges that the state telephone regulatory authority has authorized the carrier to charge customers. These surcharges are generally associated with price cap plans and other regulatory matters that either limit the carrier's local service revenue to reasonable levels, or ensure that the carrier is fully compensated for the cost of providing service. In some states, most notably California, the surcharges change annually and can either add or subtract to the local rates of customers. Charges to fund 911 services also appear on telephone bills in many parts of the country.

A number of different taxes appear on telephone bills. State, county, and municipal governments levy a number of taxes on telephone service. These charges range from standard sales taxes to telecommunications-specific charges used to fund telecommunications services for the disabled and disadvantaged. The federal excise tax on telephone service is levied on all charges, including state taxes and surcharges.

A. Rates in Urban Areas

The Industry Analysis Division conducts an annual survey of telephone rates for local service in 95 urban areas of the United States. The cities surveyed are those that were included in the Bureau of Labor Statistics' (BLS) Consumer Price Index (CPI) in 1988. In constructing averages and medians, the sample weights derived by the BLS are used. In addition to collecting information on monthly rates for service, the Urban Rates Survey collects information on charges paid to have a phone connected to the network and the price of optional inside wire maintenance plans offered by many local exchange carriers.

1. Residential Rates

Table 1.1 presents the national average rates for residential telephone service as of October 15, 1997. The average rate for flat-rate calling in the 89 cities in the sample that offered flat-rate service with touch-tone was \$19.49. Measured or message

service was \$12.24 with an additional charge of 8.9 cents for a 5-minute, same-zone, business-day call. In most locations, additional charges for touch-tone service are no longer levied. In 1997, residential customers in 19 of the 95 sample cities paid such charges. The charges ranged from \$0.12 to \$1.84. The charge to have a single touch-tone line connected averaged \$43.68 on October 15, 1997. If telephone service is being installed for the first time at a residence, a drop line from the nearest telephone cable must be run to the building and a connection block (network interface device) must be installed. In 22 of the sample cities an additional charge is levied for this work. In those cities, the charge ranged from \$11.10 to \$52.00. Nationally, the additional charge averaged \$5.65.

In some areas of the country, only one type of service is offered, either flat-rate or measured/message service, and consumers do not have a choice. In order to calculate a national average based upon all of the sample cities, we calculate a "representative rate." The representative rate is the flat-rate service charge in those areas where this type of service is available. If flat-rate service is unavailable, the rate for measured/message service is used along with the charges associated with placing 100 5-minute, same-zone business-day calls. Table 1.2 presents the national average representative rates from 1986 to 1997. Since 1986, rates have risen 13%. Much of that rise occurred prior to 1990 as the federal subscriber line charge was increased. Since 1991, monthly service rates have varied by less than 30 cents. Connection charges have fallen 7% since 1986.

One trend in local service pricing that has emerged over the past several years has been the elimination of separate charges for touch-tone service. In many areas, these charges have simply been incorporated into the basic monthly charges and connection fees.

Table 1.3 provides the rates in each of the 95 cities in the Urban Rates Survey as of October 15, 1997. Tables 1.4 and 1.5 provide historical rates for each of the sample cities.

Table 1.1
Residential Rates for Local Service in Urban Areas
(as of October 15, 1997)

	Average Rate	Median Rate
Monthly Charge for Flat-rate Service	\$13.46	\$13.25
Federal and State Subscriber Line Charges	3.54	3.50
Additional Monthly Charge for Touch-tone Service	0.15	0.00
Taxes and 911 Charges	2.35	2.26
Total Monthly Charge for Flat-rate Service	19.49	18.87
Number of Sample Cities with Flat-rate Service	89	-
Monthly Charge for Measured/Message Service	\$7.01	\$6.70
Federal and State Subscriber Line Charges	3.51	3.50
Additional Monthly Charge for Touch-tone Service	0.01	0.00
Taxes and 911 Charges	1.71	1.61
Total Monthly Charge for Measured/Message Service	12.24	11.98
Cost of a 5-minute Daytime Call	0.0887	0.0800
Number of Sample Cities with Message/Measured Service	87	-
Basic Connection Charge	\$41.06	\$40.00
Additional Connection Charge for Touch-tone Service	0.17	0.00
Taxes	2.46	2.27
Total Connection Charge	43.68	42.33
Additional Charge if Drop Line and Connection Block Needed	5.65	0.00
Lowest-cost Inside Wiring Maintenance Plan	\$1.62	\$1.99

Table 1.2
Average Residential Rates for Local Service in Urban Areas, 1986-1997
(as of October 15)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997
Representative Monthly Charge *	\$12.58	\$12.44	\$12.32	\$12.30	\$12.36	\$13.03	\$13.05	\$13.16	\$13.19	\$13.62	\$13.71	\$13.82
Subscriber Line Charges	2.04	2.66	2.67	3.53	3.55	3.56	3.55	3.55	3.55	3.54	3.54	3.53
Additional Monthly Charge for Touch-tone Service	1.57	1.52	1.54	1.52	1.33	1.06	0.97	0.94	0.77	0.44	0.30	0.12
Taxes and 911 Charges	1.51	1.56	1.58	1.70	2.00	2.12	2.15	2.29	2.31	2.41	2.40	2.44
Total Monthly Charge	17.70	18.18	18.11	19.05	19.24	19.77	19.72	19.95	19.81	20.01	19.95	19.92
Basic Connection Charge	45.63	44.04	42.94	43.06	43.06	42.00	41.50	41.38	41.28	40.91	41.11	41.06
Additional Connection Charge for Touch-tone Service	1.34	1.31	1.55	1.76	1.77	1.27	1.22	1.23	0.85	0.23	0.23	0.17
Taxes	2.28	2.20	2.11	2.44	2.32	2.30	2.29	2.30	2.33	2.44	2.36	2.46
Total Connection Charge	49.25	47.55	46.60	47.26	47.15	45.57	45.01	44.92	44.46	43.58	43.70	43.68
Additional Charge if Drop Line and Connection Block Needed	n.a.	n.a.	6.04	6.07	6.89	6.89	6.50	7.29	6.74	5.90	5.74	5.65
Lowest-cost Inside Wiring Maintenance Plan	0.58	0.85	0.89	1.07	1.07	1.20	1.25	1.31	1.45	1.52	1.78	1.62

* Rate is based upon flat-rate service where available, and measured/message service with 100 five-minute, same-zone business-day calls elsewhere.

Table 1.3
Residential Telephone Rates in the Sample Cities
(as of October 15, 1997)

State	City	Telephone Company	Monthly Telephone Rate including touch-tone, surcharges, and taxes		Cost of a five-minute same-zone daytime call	Connection Charges including touch-tone, surcharges, and taxes	Least-cost inside wiring maintenance plan
			Flat-rate Service	Measured/Message Service			
Alabama	Huntsville	BellSouth	\$22.67	\$16.34	\$0.0600	\$40.00	\$3.00
Alaska	Anchorage	Anchorage	14.47			25.50	1.50
Arizona	Tuscon	US West	19.42	16.46	0.2044	48.92	1.97
Arkansas	Pine Bluff	SBC	22.22	16.04	0.0650	44.05	2.25
Arkansas	West Memphis	SBC	28.78	15.40	0.0650	44.71	2.25
California	Anaheim	SBC	16.01	10.85	0.0729	35.93	0.50
California	Bakersfield	SBC	16.01	10.85	0.0729	35.93	0.50
California	Fresno	SBC	16.01	10.85	0.0729	35.93	0.50
California	Long Beach	GTE	23.51	16.01	0.0793	45.61	0.95
California	Los Angeles	SBC	17.51	12.27	0.0729	35.93	0.50
California	Oakland	SBC	17.13	11.92	0.0729	35.93	0.50
California	Salinas	SBC	16.91	11.71	0.0729	35.93	0.50
California	San Bernadino	GTE	23.19	15.72	0.0793	45.61	0.95
California	San Diego	SBC	16.01	10.85	0.0729	35.93	0.50
California	San Francisco	SBC	16.01	10.85	0.0729	35.93	0.50
California	San Jose	SBC	16.76	11.56	0.0729	35.93	0.50
Colorado	Boulder	US West	21.38	15.82	0.1135	37.54	2.50
Colorado	Colorado Springs	US West	20.38	14.99	0.1100	36.40	2.50
Colorado	Denver	US West	21.11	15.57	0.1130	37.56	2.50
Connecticut	Ansonia	SNET	18.70	13.66	0.1750	47.70	1.35
Connecticut	Norwalk	SNET	17.60	13.66	0.1750	47.70	1.35
District of Columbia	Washington	Bell Atlantic	19.23	8.34	0.0649	30.76	1.25
Florida	Miami	BellSouth	16.86	12.72	0.1040	40.00	3.00
Florida	Tampa	GTE	19.19	17.98	0.1000	59.13	1.00
Florida	West Palm Beach	BellSouth	15.89	11.99	0.1020	40.00	3.00
Georgia	Albany	BellSouth	21.29	14.67	0.1200	42.50	2.95
Georgia	Atlanta	BellSouth	24.98	16.81	0.1219	42.50	2.95
Hawaii	Honolulu	GTE	22.40			50.74	1.50
Illinois	Chicago	Ameritech		12.43	0.0520	60.56	
Illinois	Decatur	Ameritech		14.98	0.0520	60.64	2.99
Illinois	Rock Island	Ameritech		15.67	0.0560	60.64	2.99
Indiana	Indianapolis	Ameritech	18.82	12.53	0.2100	47.00	1.50
Indiana	Terre Haute	GTE	22.98			60.06	1.50
Iowa	Fort Dodge	Vista Telephone	14.06			9.82	1.25
Kentucky	Louisville	BellSouth	24.63	17.27	0.0618	42.00	2.00
Louisiana	Baton Rouge	BellSouth	19.57	13.23	0.0618	42.23	2.55
Louisiana	New Orleans	BellSouth	18.78	12.64	0.0600	42.23	2.55
Maine	Portland	Bell Atlantic	19.12			47.44	1.95
Maryland	Baltimore	Bell Atlantic	24.98	13.96	0.0850	48.00	1.25
Massachusetts	Boston	Bell Atlantic	23.07	15.24	0.0900	38.92	1.95
Massachusetts	Hyannis	Bell Atlantic	23.07	15.24	0.0900	38.92	1.95
Massachusetts	Springfield	Bell Atlantic	23.07	15.24	0.0900	38.92	1.95
Michigan	Detroit	Ameritech	19.42	16.21	0.0620	44.52	2.99
Michigan	Grand Rapids	Ameritech	17.95	15.65	0.0620	44.52	2.99
Michigan	Saginaw	Ameritech	20.05	17.73	0.0620	44.52	2.99
Minnesota	Detroit Lakes	US West	19.63	14.77	0.0900	19.54	2.50
Minnesota	Minneapolis	US West	21.45	15.95	0.0900	19.63	2.50
Mississippi	Pascagoula	BellSouth	26.03	17.06	0.0600	49.22	3.00
Missouri	Kansas City	SBC	18.17	13.70	0.0800	42.52	3.00
Missouri	Mexico	SBC	17.26	14.56	0.0800	41.88	3.00
Missouri	St. Louis	SBC	18.18	13.70	0.0800	43.06	3.00
Montana	Butte	US West	19.26	16.12	0.0500	25.00	2.50
Nebraska	Grand Island	US West	23.39	15.79	0.1030	36.03	2.25
New Jersey	Phillipsburg	Bell Atlantic	13.05	9.91	0.1000	44.89	1.25
New Mexico	Alamogordo	US West	20.99	13.23	0.1560	31.86	2.50
New York	Binghamton	Bell Atlantic	23.76	13.26	0.1115	62.47	1.04
New York	Buffalo	Bell Atlantic	28.29	13.42	0.1135	63.59	1.04
New York	Massena	Bell Atlantic	20.33	13.06	0.1119	62.10	1.04
New York	New York City	Bell Atlantic		13.50	0.1138	63.90	
New York	Ogdensburg	Bell Atlantic	20.90	13.74	0.1119	63.85	1.04
New York	Rochester	Frontier	16.83	9.74	0.0830	33.32	1.99
North Carolina	Raleigh	BellSouth	17.22			44.03	3.00
North Carolina	Rockingham	BellSouth	15.69			44.03	3.00
Ohio	Canton	Ameritech	18.87	10.87	0.0800	36.50	2.99
Ohio	Cincinnati	Cincinnati Bell	21.13	12.31	0.1400	31.70	1.50
Ohio	Cleveland	Ameritech	18.87	10.87	0.0800	36.50	2.99

Table 1.3
Residential Telephone Rates in the Sample Cities
(as of October 15, 1997)

State	City	Telephone Company	Monthly Telephone Rate including touch-tone, surcharges, and taxes		Cost of a five-minute same-zone daytime call	Connection Charges including touch-tone, surcharges, and taxes	Least-cost inside wiring maintenance plan
			Flat-rate Service	Measured/Message Service			
Ohio	Columbus	Ameritech	18.87	10.87	0.0800	36.50	2.99
Ohio	Toledo	Ameritech	18.87	10.87	0.0800	36.50	2.99
Oregon	Corvallis	US West	19.66	13.30	0.1545	12.36	2.50
Oregon	Portland	US West	21.22	14.91	0.1545	12.36	2.50
Pennsylvania	Allentown	Bell Atlantic	17.48	10.63	0.0700	40.00	1.25
Pennsylvania	Ellwood City	Bell Atlantic	16.60	7.56	0.0700	40.00	1.25
Pennsylvania	Johnstown	GTE	21.95	12.15	0.0593	55.86	1.50
Pennsylvania	New Castle	Bell Atlantic	14.90	9.75	0.0700	40.00	1.25
Pennsylvania	Philadelphia	Bell Atlantic	18.56	9.65	0.0700	40.00	1.25
Pennsylvania	Pittsburgh	Bell Atlantic	18.56	9.65	0.0700	40.00	1.25
Pennsylvania	Scranton	Bell Atlantic	17.48	10.63	0.0700	40.00	1.25
Rhode Island	Providence	Bell Atlantic	23.50	12.04	0.1071	36.20	1.95
South Carolina	Beaufort	Sprint	19.76	12.77	0.1200	32.30	1.25
Tennessee	Memphis	BellSouth	20.33	11.97	0.1055	47.62	2.20
Tennessee	Nashville	BellSouth	19.41	11.48	0.1000	45.13	2.20
Texas	Brownsville	SBC	15.31	11.05	0.0800	47.07	2.50
Texas	Corpus Christi	SBC	16.22	11.77	0.0800	48.25	2.50
Texas	Dallas	SBC	17.47	12.20	0.0800	46.95	2.50
Texas	Fort Worth	SBC	16.17	11.27	0.0800	46.31	2.50
Texas	Houston	SBC	17.98	12.37	0.0800	47.20	2.50
Texas	San Antonio	SBC	16.37	11.49	0.0800	47.71	2.50
Utah	Logan	US West	15.70	13.21	0.0848	26.50	2.50
Virginia	Richmond	Bell Atlantic	23.78	15.23	0.0993	38.50	1.25
Virginia	Smithfield	GTE	16.90	15.08	0.1070	30.00	1.50
Washington	Everett	GTE	18.97			46.67	1.50
Washington	Seattle	US West	15.97	11.57	0.1064	32.98	2.50
West Virginia	Huntington	Bell Atlantic	27.68	11.13	0.1550	42.00	1.25
Wisconsin	Milwaukee	Ameritech		10.36	0.0600	34.90	
Wisconsin	Racine	Ameritech		10.31	0.0600	34.74	

Table 1.4
Monthly Residential Telephone Rates in the Sample Cities *
(as of October 15)

State	City	1990	1991	1992	1993	1994	1995	1996	1997
Alabama	Huntsville	\$25.14	\$25.57	\$25.20	\$24.60	\$24.60	\$23.06	\$22.67	\$22.67
Alaska	Anchorage	10.56	10.56	14.45	16.20	14.44	14.47	14.47	14.47
Arizona	Tucson	16.25	18.20	18.23	18.23	18.23	19.18	19.13	19.42
Arkansas	Pine Bluff	22.52	22.60	22.77	22.60	22.22	22.06	22.14	22.22
Arkansas	West Memphis	27.24	29.28	0.00	29.00	29.55	28.57	28.65	28.78
California	San Diego	12.50	12.74	12.23	12.18	12.18	15.59	15.69	16.01
California	San Bernardino	16.81	16.93	17.12	17.12	16.55	23.24	23.19	16.01
California	Salinas	13.13	12.91	12.83	12.79	12.91	16.49	16.59	16.01
California	Anaheim	12.50	12.30	12.47	12.18	12.18	15.59	15.69	23.51
California	Bakersfield	12.50	12.30	12.23	12.18	12.18	15.59	15.69	17.51
California	Fresno	12.50	12.30	12.23	12.18	12.18	15.59	15.69	17.13
California	San Francisco	13.19	12.97	12.23	12.18	12.69	15.59	15.69	16.91
California	San Jose	13.13	12.91	12.83	12.79	12.79	16.34	16.44	23.19
California	Oakland	13.19	13.09	13.05	13.09	13.09	16.72	16.82	16.01
California	Los Angeles	13.75	13.52	13.44	13.39	13.39	17.09	17.20	16.01
California	Long Beach	16.65	17.24	17.35	17.35	16.78	23.56	23.51	16.76
Colorado	Boulder	18.67	20.59	20.87	20.99	21.26	21.51	21.55	21.38
Colorado	Colorado Springs	18.08	20.37	20.43	20.29	20.23	19.78	20.38	20.38
Colorado	Denver	18.95	20.80	20.87	20.80	21.12	21.10	21.14	21.11
Connecticut	Ansonia	14.33	16.68	14.66	17.22	17.60	18.70	18.70	18.70
Connecticut	Norwalk	15.44	18.06	16.04	16.13	16.51	17.60	17.60	17.60
District of Columbia	Washington	21.91	22.16	21.88	21.70	21.67	20.13	21.05	19.23
Florida	Miami	17.49	17.96	18.05	18.07	16.92	16.84	16.86	16.86
Florida	Tampa	17.79	17.95	17.99	17.45	17.45	17.65	19.09	19.19
Florida	West Palm Beach	16.69	16.50	16.67	16.74	15.65	15.59	15.89	15.89
Georgia	Albany	20.30	20.70	20.03	20.60	20.63	20.63	21.29	21.29
Georgia	Atlanta	23.44	24.48	24.50	24.50	24.53	24.80	24.98	24.98
Hawaii	Honolulu	19.21	19.29	19.29	19.35	20.60	21.35	22.52	22.40
Illinois	Chicago	18.11	18.17	18.00	18.21	18.20	17.31	17.63	17.63
Illinois	Decatur	19.09	20.29	21.29	21.56	21.54	20.19	20.18	20.18
Illinois	Rock Island	19.85	20.93	21.92	22.18	22.17	20.82	20.82	21.27
Indiana	Indianapolis	22.42	22.47	21.53	21.87	20.44	19.81	18.82	18.82
Indiana	Terre Haute	22.33	22.93	22.93	22.93	23.02	23.02	22.98	22.98
Iowa	Fort Dodge	13.02	13.66	13.79	13.79	14.06	14.06	14.06	14.06
Kentucky	Louisville	23.33	24.22	24.17	24.17	24.17	23.66	23.66	24.63
Louisiana	Baton Rouge	22.65	22.19	22.19	22.25	20.81	20.93	20.66	19.57
Louisiana	New Orleans	23.70	23.31	23.31	23.28	20.33	20.14	19.99	18.78
Maine	Portland	18.07	18.24	18.24	18.24	18.27	17.99	18.19	19.12
Maryland	Baltimore	24.80	25.27	26.05	24.98	24.98	24.98	24.98	24.98
Massachusetts	Boston	15.38	18.97	20.18	21.72	23.07	23.07	23.07	23.07
Massachusetts	Hyannis	13.65	17.42	18.63	20.43	23.07	23.07	23.07	23.07
Massachusetts	Springfield	14.79	18.44	19.65	21.72	23.07	23.07	23.07	23.07
Michigan	Detroit	19.07	19.04	19.21	19.25	19.55	19.50	19.42	19.42
Michigan	Grand Rapids	17.07	17.06	17.22	17.19	17.53	18.06	17.95	17.95
Michigan	Saginaw	16.34	16.31	16.48	18.75	16.93	18.96	20.05	20.05
Minnesota	Detroit Lakes	19.74	19.83	19.83	19.86	19.84	19.91	19.91	19.63
Minnesota	Minneapolis	21.09	21.19	21.19	21.64	21.66	21.73	21.73	21.45
Mississippi	Pascagoula	25.91	26.34	26.15	26.03	26.42	26.42	26.03	26.03
Missouri	Kansas City	20.27	20.33	20.33	20.40	19.03	18.15	18.15	18.17
Missouri	Mexico	17.00	17.07	17.07	17.14	15.81	17.19	17.19	17.26
Missouri	St. Louis	20.10	20.16	20.16	20.23	19.05	18.18	18.18	18.18
Montana	Butte	19.25	19.25	19.25	18.22	18.22	18.22	18.22	19.26
Nebraska	Grand Island	21.78	21.85	21.86	21.88	21.88	21.85	21.76	23.39
New Jersey	Phillipsburg	13.43	13.16	13.04	13.04	13.04	13.04	13.04	13.05
New Mexico	Alamogordo	19.75	19.12	19.37	20.21	20.46	20.65	20.82	20.99
New York	Binghamton	22.90	25.74	25.31	25.31	24.52	26.03	23.80	23.76

Table 1.4
Monthly Residential Telephone Rates in the Sample Cities *
(as of October 15)

State	City	1990	1991	1992	1993	1994	1995	1996	1997
New York	Buffalo	29.84	33.18	32.68	32.68	31.63	30.62	28.34	28.29
New York	Massena	20.19	22.93	22.90	22.90	22.88	23.40	21.19	20.33
New York	New York City	24.33	26.79	26.75	26.75	26.73	25.00	24.92	24.88
New York	Ogdensburg	20.75	23.96	23.54	23.54	23.52	24.06	21.78	20.90
New York	Rochester	20.25	20.98	20.04	19.75	18.96	16.83	16.83	16.83
North Carolina	Raleigh	18.71	19.45	18.23	18.23	18.02	17.75	17.48	17.22
North Carolina	Rockingham	16.47	17.22	16.74	16.74	16.53	16.22	15.95	15.69
Ohio	Canton	21.29	21.29	21.29	21.29	21.29	20.00	19.59	18.87
Ohio	Cincinnati	19.92	20.30	20.30	20.30	21.24	21.13	21.13	21.13
Ohio	Cleveland	21.29	21.29	21.29	21.29	21.29	20.00	19.44	18.87
Ohio	Columbus	21.29	21.29	21.29	21.29	21.29	20.00	19.85	18.87
Ohio	Toledo	21.29	21.29	21.29	21.29	21.29	20.00	19.85	18.87
Oregon	Corvallis	19.31	19.21	19.08	19.02	18.21	18.73	19.65	19.66
Oregon	Portland	21.65	21.44	21.22	21.42	18.36	22.07	23.02	21.22
Pennsylvania	Johnstown	18.67	19.25	18.98	20.11	21.95	21.78	20.31	17.48
Pennsylvania	Ellwood City	14.76	14.76	14.76	15.07	15.07	16.72	16.76	16.60
Pennsylvania	Allentown	16.10	16.10	16.10	17.70	17.70	17.59	17.63	21.95
Pennsylvania	New Castle	14.76	14.76	14.76	15.07	15.58	14.97	15.01	14.90
Pennsylvania	Philadelphia	17.44	17.44	17.44	20.09	20.09	19.98	18.72	18.56
Pennsylvania	Scranton	16.10	16.10	16.10	16.41	16.41	17.59	17.63	18.56
Pennsylvania	Pittsburgh	17.44	17.44	17.44	18.78	18.78	18.67	18.72	17.48
Rhode Island	Providence	23.46	23.62	22.76	23.09	23.50	23.50	23.50	23.50
South Carolina	Beaufort	20.72	21.61	20.30	20.30	20.30	19.76	19.76	19.76
Tennessee	Memphis	20.29	20.31	20.25	20.25	20.25	20.25	20.33	20.33
Tennessee	Nashville	19.03	19.21	19.50	19.41	19.41	19.41	19.41	19.41
Texas	Brownsville	15.71	15.42	15.27	15.27	14.33	15.33	15.31	15.31
Texas	Corpus Christi	15.86	16.22	16.93	17.00	15.93	15.89	15.90	16.22
Texas	Dallas	17.77	18.45	18.45	18.97	17.99	18.00	17.92	17.47
Texas	Fort Worth	17.09	16.80	17.68	17.77	16.70	16.73	16.62	16.17
Texas	Houston	18.59	19.40	19.37	19.42	18.39	18.44	18.28	17.98
Texas	San Antonio	16.96	16.67	17.55	17.52	16.58	16.56	16.42	16.37
Utah	Logan	15.82	15.63	15.63	15.66	15.62	15.76	15.76	15.70
Virginia	Richmond	23.70	23.98	23.96	24.60	24.60	23.90	23.78	23.78
Virginia	Smithfield	17.14	16.90	17.01	17.01	17.01	17.01	16.90	16.90
Washington	Everett	21.96	19.86	20.54	18.97	18.97	18.97	18.97	18.97
Washington	Seattle	16.13	16.06	16.21	17.00	17.00	16.22	15.93	15.97
West Virginia	Huntington	28.63	28.63	28.73	28.73	28.73	28.73	28.21	27.68
Wisconsin	Milwaukee	23.11	16.66	16.66	16.56	15.91	15.91	15.92	16.36
Wisconsin	Racine	20.97	16.63	16.63	16.61	15.96	15.87	15.88	16.31

* Rate is for flat-rate service where available, and measured/message service with 100 local calls, elsewhere.
Rate includes touch-tone service, surcharges, 911 charges and taxes.

Table 1.5
 Connection Charges for a Residential Telephone Line in the Sample Cities *
 (as of October 15)

State	City	1990	1991	1992	1993	1994	1995	1996	1997
Alabama	Huntsville	\$44.14	\$46.44	\$42.68	\$42.68	\$42.68	\$42.68	\$40.00	\$40.00
Alaska	Anchorage	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50
Arizona	Tuscon	59.42	51.64	51.74	51.74	51.74	51.74	48.92	48.92
Arkansas	Pine Bluff	52.54	52.72	52.75	52.72	44.16	43.92	44.08	44.05
Arkansas	West Memphis	52.53	53.76	0.00	53.25	44.24	44.54	44.67	44.71
California	San Diego	36.20	34.80	34.50	34.32	34.32	35.19	35.47	35.93
California	San Bernadino	49.00	54.79	55.25	55.25	52.89	45.73	45.61	35.93
California	Salinas	36.20	34.80	34.50	34.32	34.32	35.19	35.47	35.93
California	Anaheim	36.20	34.80	34.50	34.32	34.32	35.19	35.47	45.61
California	Bakersfield	36.20	34.80	34.50	34.32	34.32	35.19	35.47	35.93
California	Fresno	36.20	34.80	34.50	34.32	34.32	35.19	35.47	35.93
California	San Francisco	36.20	34.80	34.50	34.32	34.32	35.19	35.47	35.93
California	San Jose	36.20	34.80	34.50	34.32	34.32	35.19	35.47	45.61
California	Oakland	36.20	34.80	34.50	34.32	34.32	35.19	35.47	35.93
California	Los Angeles	36.20	34.80	34.50	34.32	34.32	35.19	35.47	35.93
California	Long Beach	49.00	54.79	55.25	55.25	52.89	45.73	45.61	35.93
Colorado	Boulder	65.53	37.33	37.33	37.33	37.42	37.45	37.54	37.54
Colorado	Colorado Springs	65.50	37.06	36.84	36.84	36.40	36.40	36.40	36.40
Colorado	Denver	65.93	37.56	37.56	37.56	37.56	37.56	37.56	37.56
Connecticut	Ansonia	35.73	37.87	37.87	47.70	47.70	47.70	47.70	47.70
Connecticut	Norwalk	35.73	37.87	37.87	47.70	47.70	47.70	47.70	47.70
District of Columbia	Washington	32.68	33.12	30.76	30.76	30.76	30.76	30.76	30.76
Florida	Miami	44.55	44.50	44.50	44.50	40.00	40.00	40.00	40.00
Florida	Tampa	60.97	60.97	62.04	62.98	62.98	62.98	59.13	59.13
Florida	West Palm Beach	44.55	44.50	44.50	44.50	40.00	40.00	40.00	40.00
Georgia	Albany	42.50	42.50	42.50	42.50	42.50	42.50	42.50	42.50
Georgia	Atlanta	42.50	42.50	42.50	42.50	42.50	42.50	42.50	42.50
Hawaii	Honolulu	45.50	45.50	45.50	45.50	45.50	45.50	49.30	50.74
Illinois	Chicago	60.95	60.95	60.56	60.56	60.56	60.56	60.56	60.56
Illinois	Decatur	60.73	60.73	60.64	60.64	60.64	60.64	60.64	60.64
Illinois	Rock Island	60.77	60.77	60.64	60.64	60.64	60.64	60.64	60.64
Indiana	Indianapolis	47.00	47.00	47.00	47.00	47.00	47.00	47.00	47.00
Indiana	Terre Haute	60.06	60.06	60.06	60.06	60.06	60.06	60.06	60.06
Iowa	Fort Dodge	17.58	9.72	9.82	9.82	9.82	9.82	9.82	9.82
Kentucky	Louisville	34.55	34.50	34.50	34.50	34.50	34.50	42.00	42.00
Louisiana	Baton Rouge	72.25	69.28	63.50	51.80	51.80	44.63	44.29	42.23
Louisiana	New Orleans	72.25	69.54	64.12	51.50	52.00	44.29	44.29	42.23
Maine	Portland	46.99	47.44	47.44	47.44	47.44	47.44	47.44	47.44
Maryland	Baltimore	48.00	48.00	48.00	48.00	48.00	48.00	48.00	48.00
Massachusetts	Boston	33.36	36.53	38.92	38.92	38.92	38.92	38.92	38.92
Massachusetts	Hyannis	33.36	36.53	38.92	38.92	38.92	38.92	38.92	38.92
Massachusetts	Springfield	33.36	36.53	38.92	38.92	38.92	38.92	38.92	38.92
Michigan	Detroit	45.78	43.68	43.68	43.68	44.52	44.52	44.52	44.52
Michigan	Grand Rapids	43.68	43.68	43.68	43.68	44.52	44.52	44.52	44.52
Michigan	Saginaw	43.68	43.68	43.68	43.68	44.52	44.52	44.52	44.52
Minnesota	Detroit Lakes	32.00	32.00	18.75	18.75	18.75	18.75	19.97	19.54
Minnesota	Minneapolis	32.00	32.00	18.75	18.75	18.75	18.75	20.06	19.63
Mississippi	Pascagoula	35.53	35.85	35.85	49.22	49.22	49.22	49.22	49.22
Missouri	Kansas City	51.78	52.95	52.95	52.95	42.47	42.47	42.47	42.52
Missouri	Mexico	50.84	51.98	51.98	51.98	51.98	41.70	41.70	41.88
Missouri	St. Louis	51.99	53.16	53.16	53.16	53.67	43.06	43.06	43.06
Montana	Butte	38.30	38.30	38.30	35.30	35.30	25.00	25.00	25.00
Nebraska	Grand Island	44.52	45.78	45.78	30.52	30.52	30.52	36.03	36.03
New Jersey	Phillipsburg	44.94	44.94	44.52	44.52	44.52	44.52	44.89	44.89
New Mexico	Alamogordo	57.77	57.77	55.38	31.86	31.96	31.96	31.86	31.86

Table 1.5
 Connection Charges for a Residential Telephone Line in the Sample Cities *
 (as of October 15)

State	City	1990	1991	1992	1993	1994	1995	1996	1997
New York	Binghamton	62.64	63.13	62.48	62.48	62.42	62.71	62.59	62.47
New York	Buffalo	63.81	64.84	64.19	64.19	64.13	63.83	63.71	63.59
New York	Massena	62.85	63.34	62.69	62.69	62.63	62.34	62.22	62.10
New York	New York	64.69	65.24	64.64	64.64	64.58	64.29	64.02	63.90
New York	Ogdensburg	64.61	65.12	64.46	64.46	64.39	64.09	63.97	63.85
New York	Rochester	35.30	37.54	38.91	47.01	33.32	33.32	33.32	33.32
North Carolina	Raleigh	42.75	44.03	44.03	44.03	44.03	44.03	44.03	44.03
North Carolina	Rockingham	42.75	44.03	44.03	44.03	44.03	44.03	44.03	44.03
Ohio	Canton	45.80	45.80	45.80	45.80	45.80	36.50	36.50	36.50
Ohio	Cincinnati	30.25	30.25	30.25	30.25	31.70	31.70	31.70	31.70
Ohio	Cleveland	45.80	45.80	45.80	45.80	45.80	36.50	36.50	36.50
Ohio	Columbus	45.80	45.80	45.80	45.80	45.80	36.50	36.50	36.50
Ohio	Toledo	45.80	45.80	45.80	45.80	45.80	36.50	36.50	36.50
Oregon	Corvallis	12.36	12.00	12.00	12.00	12.00	12.00	12.36	12.36
Oregon	Portland	12.42	12.00	12.00	12.00	12.00	12.00	12.36	12.36
Pennsylvania	Johnstown	59.81	61.99	53.12	55.86	55.86	55.86	55.86	40.00
Pennsylvania	Ellwood City	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
Pennsylvania	Allentown	40.00	40.00	40.00	40.00	40.00	40.00	40.00	55.86
Pennsylvania	New Castle	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
Pennsylvania	Philadelphia	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
Pennsylvania	Scranton	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
Pennsylvania	Pittsburgh	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
Rhode Island	Providence	29.45	29.45	30.39	30.39	36.20	36.20	36.20	36.20
South Carolina	Beaufort	32.30	32.30	32.30	32.30	32.30	32.30	32.30	32.30
Tennessee	Memphis	46.85	47.39	47.39	47.39	47.39	47.39	47.62	47.62
Tennessee	Nashville	44.78	45.13	45.13	45.13	45.13	45.13	45.13	45.13
Texas	Brownsville	71.04	47.10	46.66	46.66	44.06	47.12	47.08	47.07
Texas	Corpus Christi	72.28	48.14	50.23	50.45	47.39	47.28	47.31	48.25
Texas	Dallas	73.07	51.12	50.95	51.15	48.38	48.38	48.18	46.95
Texas	Fort Worth	72.42	48.02	50.53	50.80	47.82	47.90	47.59	46.31
Texas	Houston	72.78	51.17	51.10	51.22	48.37	48.40	47.98	47.20
Texas	San Antonio	71.72	47.56	50.08	49.99	47.38	47.31	46.93	47.71
Utah	Logan	31.27	19.92	19.92	19.92	19.90	19.90	26.53	26.50
Virginia	Richmond	38.50	38.50	38.50	38.50	38.50	38.50	38.50	38.50
Virginia	Smithfield	29.25	29.25	29.25	29.25	29.25	29.25	30.00	30.00
Washington	Everett	32.93	30.67	31.38	42.08	42.08	42.08	46.67	46.67
Washington	Seattle	33.62	33.44	33.26	33.08	33.08	32.98	32.98	32.98
West Virginia	Huntington	42.00	42.00	42.00	42.00	42.00	42.00	42.00	42.00
Wisconsin	Milwaukee	36.57	34.87	34.87	34.87	34.87	34.87	34.90	34.90
Wisconsin	Racine	36.57	34.70	34.70	34.70	34.70	34.70	34.74	34.74

* Charges include touch-tone charges, surcharges, and taxes

2. Rates for Low-Income Households

The local rates shown in tables 1.1 through 1.5 are based on rates that are available to all customers. Many states have programs that subsidize monthly service charges or connection fees paid by low-income households. Most of these programs are part of the FCC-sponsored lifeline and link-up programs. In 1997, 81 of the 95 cities in the sample, representing 84% of urban consumers, offered assistance on monthly telephone charges. Reduced connection fees were available in 94 of the 95 cities, representing nearly all urban consumers. Table 1.6 shows the lifeline and link-up rates in those cities and compares the subsidized rates to the standard rates. In 1997, low-income households on the lifeline program saw their monthly rates reduced by nearly \$9, to \$10.93. The average savings on connection charges for a low-income household obtaining link-up benefits was \$29.

Table 1.7 presents the lifeline and link-up rates, as well as the standard rates, in the sample cities as of October 15, 1997.

Table 1.6
Comparison of Standard Local Telephone Rates to Lifeline and Link-up Rates

October 15, 1997

	Standard Rate in Cities with Subsidy Plan (a)	Subsidy Plan Rate (b)	Benefit (a) - (b)
Representative Monthly Charge	\$13.99	\$9.26	
Federal and State Subscriber Line Charges	3.49	0.22	
Taxes and 911 Charges	2.39	1.45	
Total Monthly Charge *	\$19.87	\$10.93	\$8.94
Basic Connection Charge	41.07	13.71	
Taxes	2.43	0.78	
Total Connection Charge **	\$43.50	\$14.49	\$29.01

* Averages are for the 81 cities with subsidized monthly rates. These cities represent 84% of the sample weight.

** Averages are for the 94 cities with connection assistance plans. These cities represent nearly 100% of the sample weight.

October 15, 1996

	Standard Rate in Cities with Subsidy Plan (a)	Subsidy Plan Rate (b)	Benefit (a) - (b)
Representative Monthly Charge	\$13.90	\$9.12	
Federal and State Subscriber Line Charges	3.49	0.25	
Taxes and 911 Charges	2.34	1.38	
Total Monthly Charge *	\$19.72	\$10.75	\$8.97
Basic Connection Charge	41.12	13.72	
Taxes	2.34	0.75	
Total Connection Charge **	\$43.46	\$14.47	\$28.99

* Averages are for the 69 cities with subsidized monthly rates. These cities represent 72% of the sample weight.

** Averages are for the 94 cities with connection assistance plans. These cities represent nearly 100% of the sample weight.

Table 1.7
Lifeline and Link-up Rates in the Sample Cities
(as of October 15, 1997)

State	City	Telephone Company	Monthly Telephone Rate * for rotary service including surcharges, and taxes		Conection Charge for rotary service including surcharges, and taxes	
			Standard Rates	Lifeline Rates	Standard Rates	Link-up Rates
Alabama	Huntsville	BellSouth	\$22.67	\$14.98	\$40.00	\$20.00
Alaska	Anchorage	Anchorage	14.47	7.22	25.50	
Arizona	Tuscon	US West	19.42	16.13	48.92	24.46
Arkansas	Pine Bluff	SBC	22.22	12.26	44.05	22.02
Arkansas	West Memphis	SBC	28.78	11.72	44.71	22.36
California	Anaheim	SBC	16.01	6.10	35.93	10.34
California	Bakersfield	SBC	16.01	6.10	35.93	10.34
California	Fresno	SBC	16.01	6.10	35.93	10.34
California	Long Beach	GTE	23.51	8.36	45.61	9.92
California	Los Angeles	SBC	17.51	6.66	35.93	10.34
California	Oakland	SBC	17.13	6.52	35.93	10.34
California	Salinas	SBC	16.91	6.44	35.93	10.34
California	San Bernadino	GTE	23.19	8.24	45.61	9.92
California	San Diego	SBC	16.01	6.10	35.93	10.34
California	San Francisco	SBC	16.01	6.10	35.93	10.34
California	San Jose	SBC	16.76	6.38	35.93	10.34
Colorado	Boulder	US West	21.38	13.22	37.54	18.77
Colorado	Colorado Springs	US West	20.38	12.60	36.40	18.20
Colorado	Denver	US West	21.11	12.97	37.56	18.78
Connecticut	Ansonia	SNET	18.70	9.96	47.70	23.85
Connecticut	Norwalk	SNET	17.60	8.87	47.70	23.85
District of Columbia	Washington	Bell Atlantic	19.23	3.68	30.76	15.38
Florida	Miami	BellSouth	16.86	8.99	40.00	20.00
Florida	Tampa	GTE	19.19		59.13	29.56
Florida	West Palm Beach	BellSouth	15.89	8.10	40.00	20.00
Georgia	Albany	BellSouth	21.29	12.23	42.50	0.00
Georgia	Atlanta	BellSouth	24.98	15.83	42.50	0.00
Hawaii	Honolulu	GTE	20.50	12.76	50.74	25.37
Illinois	Chicago	Ameritech	17.63		60.56	0.06
Illinois	Decatur	Ameritech	20.18		60.64	0.06
Illinois	Rock Island	Ameritech	21.27		60.64	0.06
Indiana	Indianapolis	Ameritech	18.82		47.00	23.50
Indiana	Terre Haute	GTE	22.11		60.06	30.03
Iowa	Fort Dodge	Vista Telephone	14.06		9.82	4.34
Kentucky	Louisville	BellSouth	24.63		42.00	21.00
Louisiana	Baton Rouge	BellSouth	19.57		42.23	21.12
Louisiana	New Orleans	BellSouth	18.78		42.23	21.12
Maine	Portland	Bell Atlantic	19.12	10.55	47.44	10.60
Maryland	Baltimore	Bell Atlantic	24.98	9.61	48.00	24.00
Massachusetts	Boston	Bell Atlantic	22.01	11.73	38.92	19.47
Massachusetts	Hyannis	Bell Atlantic	22.01	11.73	38.92	19.47
Massachusetts	Springfield	Bell Atlantic	22.01	11.73	38.92	19.47
Michigan	Detroit	Ameritech	19.42	14.85	44.52	22.26
Michigan	Grand Rapids	Ameritech	17.95	13.58	44.52	22.26
Michigan	Saginaw	Ameritech	20.05	15.68	44.52	22.26
Minnesota	Detroit Lakes	US West	19.63	11.95	19.54	9.78
Minnesota	Minneapolis	US West	21.45	13.74	19.63	9.82
Mississippi	Pascagoula	BellSouth	25.21	15.34	49.22	24.61
Missouri	Kansas City	SBC	18.17	9.67	42.52	21.26
Missouri	Mexico	SBC	17.26	7.75	41.88	20.94
Missouri	St. Louis	SBC	18.18	9.67	43.06	21.53
Montana	Butte	US West	19.26	12.05	25.00	12.50

Table 1.7
Lifeline and Link-up Rates in the Sample Cities
(as of October 15, 1997)

State	City	Telephone Company	Monthly Telephone Rate * for rotary service including surcharges, and taxes		Conection Charge for rotary service including surcharges, and taxes	
			Standard Rates	Lifeline Rates	Standard Rates	Link-up Rates
Nebraska	Grand Island	US West	23.39		36.03	18.01
New Jersey	Phillipsburg	Bell Atlantic	11.96		44.89	22.45
New Mexico	Alamogordo	US West	20.99	10.18	31.86	7.96
New York	Binghamton	Bell Atlantic	23.76	14.49	62.47	11.36
New York	Buffalo	Bell Atlantic	28.29	18.92	63.59	11.56
New York	Massena	Bell Atlantic	20.33	11.12	62.10	11.29
New York	New York City	Bell Atlantic	24.88	14.27	63.90	11.62
New York	Ogdensburg	Bell Atlantic	20.90	11.43	63.85	11.61
New York	Rochester	Frontier - Rochester	16.83	13.04	33.32	10.00
North Carolina	Raleigh	BellSouth	17.22	9.79	44.03	22.02
North Carolina	Rockingham	BellSouth	15.69	8.26	44.03	22.02
Ohio	Canton	Ameritech	18.87	10.63	36.50	0.00
Ohio	Cincinnati	Cincinnati Bell	20.28	18.63	25.70	0.00
Ohio	Cleveland	Ameritech	18.87	10.63	36.50	0.00
Ohio	Columbus	Ameritech	18.87	10.63	36.50	0.00
Ohio	Toledo	Ameritech	18.87	10.63	36.50	0.00
Oregon	Corvallis	US West	19.66	12.34	12.36	6.18
Oregon	Portland	US West	21.22	13.87	12.36	6.18
Pennsylvania	Allentown	Bell Atlantic	17.48	8.88	40.00	20.00
Pennsylvania	Ellwood City	Bell Atlantic	16.60	8.00	40.00	20.00
Pennsylvania	Johnstown	GTE	20.31		55.86	27.93
Pennsylvania	New Castle	Bell Atlantic	14.90	8.00	40.00	20.00
Pennsylvania	Philadelphia	Bell Atlantic	18.56	7.90	40.00	20.00
Pennsylvania	Pittsburgh	Bell Atlantic	18.56	7.90	40.00	20.00
Pennsylvania	Scranton	Bell Atlantic	17.48	8.88	40.00	20.00
Rhode Island	Providence	Bell Atlantic	23.50	15.38	36.20	18.10
South Carolina	Beaufort	Sprint-United	19.76		32.30	16.15
Tennessee	Memphis	BellSouth	18.56	11.63	47.62	23.81
Tennessee	Nashville	BellSouth	17.73	10.95	45.13	22.57
Texas	Brownsville	SBC	15.09	6.50	44.35	22.18
Texas	Corpus Christi	SBC	16.00	7.45	45.46	22.74
Texas	Dallas	SBC	17.25	8.94	44.24	22.13
Texas	Fort Worth	SBC	15.96	7.59	43.63	21.82
Texas	Houston	SBC	17.76	9.22	44.48	22.24
Texas	San Antonio	SBC	16.15	7.68	44.96	22.48
Utah	Logan	US West	15.70	7.82	26.50	13.25
Virginia	Richmond	Bell Atlantic	23.78	13.17	38.50	19.25
Virginia	Smithfield	GTE	16.90	6.71	30.00	15.00
Washington	Everett	GTE	18.97	11.19	46.67	23.34
Washington	Seattle	US West	15.97	10.99	32.98	16.49
West Virginia	Huntington	Bell Atlantic	27.16	20.85	42.00	21.00
Wisconsin	Milwaukee	Ameritech	16.36	16.36	34.90	0.00
Wisconsin	Racine	Ameritech	16.31	16.31	34.74	0.00

* Rate is for flat-rate service where available, and measured/message service with 100 local calls, elsewhere

3. Business Rates

The Urban Rates Survey also collects information on charges for business service. Rates for three different types of service are collected; rates for a business with a single phone line, rates for a business with a key system phone line, and rates for a business with a private branch exchange (PBX) trunk.

Table 1.8 presents the average monthly rates for flat-rate and measured/message service paid by a business with a single telephone line, as well as the connection charges such a business could expect to pay. Table 1.9 calculates the "representative rate," as well as showing the trend in rates since 1989. Rates for single-line businesses have followed trends similar to those seen with residential rates. Rates have been relatively constant since the time that the federal subscriber line charge for a single-line business reached its current cap of \$3.50 and touch-tone rates have been rolled into the basic monthly charge. Since 1989, connection charges have dropped almost 4%. Tables 1.10 through 1.12 present current and historical rates for the sample cities.

A key telephone system is a telecommunications system used by smaller businesses with a limited number of outgoing telephone lines. The major advantages of a key system is that incoming calls enter the key system and can then be transferred to other lines on the system. Additional features commonly found on a key system are the ability to place an incoming call on hold while the telephone is used for another call and conference features to allow multiple telephones on the system to access an incoming call.

Table 1.13 shows the average monthly charges for a key system line as of October 15, 1997. Since firms with a key telephone system purchase more than one phone line, the federal subscriber line charge for multi-line businesses is used in calculating the monthly rates. The rates also include charges for a feature known as a rotary line group or a hunt group. A hunt group is basically a series of lines which, when an incoming call reaches a busy signal, automatically rotates the call to an idle line. Table 1.13 also shows the average charge for connecting three lines. Comparing connection charges for a single line in table 1.9 to the charges in table 1.13 indicates that in many areas the cost to a business of having multiple lines connected is less than having the same number of lines connected individually. Table 1.14 presents the national average of key system rates over time. Since 1989, monthly charges for representative service has been virtually unchanged. Tables 1.15 and 1.16 present current and historical rates for the sample cities.

A private branch exchange, commonly known as a PBX, is a customer-owned switching system used by most large offices with more than 50 stations (telephones on the premises). The stations connect to the line-side of the PBX, while on the trunk-side, lines from the telephone company are connected. The PBX then allows calling within the customer's premises without using the telephone company's network and allows the customer to save on the number of telephone lines, or trunks, that are needed to satisfy non-internal calling needs. PBXs commonly are equipped with sophisticated call management features such as least-cost routing of calls and restriction of calling privileges of certain stations.

Table 1.17 shows average rates for standard voice-grade PBX trunks with hunt group as of October 15, 1997. Table 1.18 presents the national averages since 1989, while tables 1.19 and 1.20 provide current and historical rates for the sample cities.

Table 1.8
Average Local Rates for Businesses with a Single Line in Urban Areas
 (as of October 15, 1997)

	Average Rate	Median Rate
Monthly Charge for Flat-rate Service	\$34.55	\$33.83
Federal and State Subscriber Line Charges	3.61	3.50
Additional Monthly Charge for Touch-tone Service	0.58	0.00
Taxes and 911 Charges	5.59	5.45
Total Monthly Charge for Flat-rate Service	44.33	42.00
Number of Sample Cities with Flat-rate Service	53	-
Monthly Charge for Measured/Message Service	\$17.39	\$17.38
Federal and State Subscriber Line Charges	3.51	3.50
Additional Monthly Charge for Touch-tone Service	0.45	0.00
Taxes and 911 Charges	3.10	2.80
Total Monthly Charge for Measured/Message Service	24.45	23.61
Cost of a 5-minute Daytime Call	0.0921	0.0800
Number of Sample Cities with Message/Measured Service	85	-
Basic Connection Charge	\$68.58	\$65.00
Additional Connection Charge for Touch-tone Service	0.17	0.00
Taxes	4.42	4.50
Total Connection Charge	73.18	68.90
Additional Charge if Drop Line and Connection Block Needed	6.86	0.00
Lowest-cost Inside Wiring Maintenance Plan	\$2.76	\$2.99

Table 1.9
Average Local Rates for Businesses with a Single Line in Urban Areas

	1989	1990	1991	1992	1993	1994	1995	1996	1997
Monthly Representative Service Charge*	\$31.06	\$30.97	\$32.29	\$32.45	\$32.70	\$32.25	\$32.48	\$32.58	\$32.69
Subscriber Line Charges	3.55	3.57	3.57	3.56	3.57	3.57	3.57	3.54	3.54
Extra for Touch-tone	2.43	2.35	1.84	1.71	1.67	1.21	0.97	0.82	0.44
Tax including 911 Charges	4.21	4.32	4.42	4.57	4.63	4.61	4.79	4.87	4.99
Total Monthly Charge	41.25	41.21	42.12	42.29	42.57	41.64	41.80	41.81	41.65
Monthly Charge for Flat-rate Service	\$33.04	\$33.29	\$34.12	\$34.06	\$34.85	\$34.39	\$34.45	\$34.42	\$34.55
Subscriber Line Charges	3.65	3.69	3.70	3.70	3.70	3.70	3.69	3.61	3.61
Extra for Touch-tone	2.12	2.11	1.87	1.84	1.76	1.12	1.00	0.89	0.58
Tax including 911 Charges	4.90	4.98	5.22	5.34	5.50	5.36	5.58	5.55	5.59
Total Monthly Charge for Flat-rate Service	43.71	44.07	44.91	44.94	45.81	44.57	44.71	44.47	44.33
Number of Sample Cities with Flat-rate Service	59	56	54	54	54	53	53	53	53
Monthly Charge for Measured/Message Service	\$16.18	\$16.17	\$16.76	\$16.55	\$16.60	\$16.74	\$17.06	\$17.26	\$17.39
200 Five-minute Business-day Same-zone Calls	16.11	16.19	16.70	17.23	17.57	17.38	17.15	17.10	17.03
Subscriber Line Charges	3.54	3.55	3.55	3.54	3.55	3.55	3.54	3.51	3.51
Extra for Touch-tone	2.48	2.39	1.87	1.73	1.68	1.22	0.98	0.83	0.45
Tax including 911 Charges	4.41	4.53	4.56	4.77	4.86	4.83	5.01	5.13	5.20
Total Monthly Charge for Measured/Message Service	42.72	42.83	43.44	43.82	44.26	43.72	43.75	43.84	43.58
Number of Sample Cities with Measured/Message Service	83	83	84	84	84	87	87	86	85
Cost of a Five-minute Business-day Same-zone Call	\$0.0929	\$0.0933	\$0.0912	\$0.0931	\$0.0942	\$0.0923	\$0.0925	\$0.0923	\$0.0921
Basic Connection Charge	\$71.05	\$71.36	\$72.75	\$72.55	\$71.41	\$69.88	\$67.87	\$68.47	\$68.58
Additional Connection Charge for Touch-tone Service	1.70	1.89	1.13	1.19	1.17	0.92	0.27	0.17	0.17
Tax	4.06	4.15	4.32	4.33	4.25	4.13	4.17	4.20	4.42
Total Connection Charge	76.81	77.40	78.20	78.07	76.83	74.93	72.31	72.85	73.18
Additional Charge if Drop Line and Connection Block Needed	5.92	7.87	6.90	6.83	6.64	6.49	7.28	6.98	6.86
Lowest-cost Inside Wiring Maintenance Plan	\$1.78	\$1.91	\$2.05	\$2.03	\$2.08	\$2.26	\$2.39	\$2.63	\$2.76

* Rate is based upon flat-rate service where available, and measured/message service with 200 five-minute, same-zone business-day calls elsewhere.

Table 1.10
Telephone Rates in the Sample Cities for a Business with a Single Line
(as of October 15, 1997)

State	City	Telephone Company	Monthly Telephone Rate including touch-tone, surcharges, and taxes		Cost of a five-minute same-zone daytime call	Connection Charges including touch-tone, surcharges, and taxes	Least-cost inside wiring maintenance plan
			Flat-rate Service	Measured/Message Service			
Alabama	Huntsville	BellSouth	\$50.90	\$41.87	\$0.0600	\$69.00	\$3.00
Alaska	Anchorage	Anchorage	31.05			30.75	1.50
Arizona	Tucson	US West	42.00			58.91	2.22
Arkansas	Pine Bluff	SBC	41.12	26.87	0.0650	93.19	2.75
Arkansas	West Memphis	SBC	54.01	25.14	0.0650	94.61	2.75
California	Anaheim	SBC		14.95	0.0729	73.16	1.00
California	Bakersfield	SBC		15.59	0.0729	73.16	1.00
California	Fresno	SBC		15.59	0.0729	73.16	1.00
California	Long Beach	GTE		25.74	0.0793	92.51	1.95
California	Los Angeles	SBC		16.35	0.0729	73.16	1.00
California	Oakland	SBC		16.00	0.0729	73.16	1.00
California	Salinas	SBC		16.58	0.0729	73.16	1.00
California	San Bernadino	GTE		25.39	0.0793	91.25	1.95
California	San Diego	SBC		14.95	0.0729	73.16	1.00
California	San Francisco	SBC		16.00	0.0729	73.16	1.00
California	San Jose	SBC		15.65	0.0729	73.16	1.00
Colorado	Boulder	US West	46.96	24.96	0.1342	75.08	3.00
Colorado	Colorado Springs	US West	44.42	23.74	0.1300	72.80	3.00
Colorado	Denver	US West	46.59	24.68	0.1336	75.11	3.00
Connecticut	Ansonia	SNET	43.70	25.79	0.1750	68.90	2.65
Connecticut	Norwalk	SNET	40.86	25.89	0.1750	68.90	2.65
District of Columbia	Washington	Bell Atlantic		20.05	0.0778	83.25	3.00
Florida	Miami	BellSouth	40.67	31.58	0.1248	60.20	3.00
Florida	Tampa	GTE	41.09			74.07	1.00
Florida	West Palm Beach	BellSouth	38.13	29.58	0.1224	59.92	3.00
Georgia	Albany	BellSouth	41.00	34.32	0.1200	58.25	2.95
Georgia	Atlanta	BellSouth	58.87	48.73	0.1212	58.25	2.95
Hawaii	Honolulu	GTE	47.32			52.97	1.95
Illinois	Chicago	Ameritech		15.11	0.0741	57.64	2.99
Illinois	Decatur	Ameritech		18.02	0.0779	57.72	2.99
Illinois	Rock Island	Ameritech		18.88	0.0779	57.72	2.99
Indiana	Indianapolis	Ameritech	55.84	32.80	0.1600	59.00	2.50
Indiana	Terre Haute	GTE	47.03			68.78	1.50
Iowa	Fort Dodge	Vista Telephone	22.44			15.65	0.85
Kentucky	Louisville	BellSouth	56.84	45.38	0.0618	73.00	2.00
Louisiana	Baton Rouge	BellSouth	46.34	34.85	0.0618	87.55	2.55
Louisiana	New Orleans	BellSouth	46.12	34.64	0.0600	87.55	2.55
Maine	Portland	Bell Atlantic	39.75			59.36	1.95
Maryland	Baltimore	Bell Atlantic		21.19	0.0930	98.50	1.00
Massachusetts	Boston	Bell Atlantic		19.42	0.1080	97.67	1.95
Massachusetts	Hyannis	Bell Atlantic	48.38	19.42	0.1080	97.67	1.95
Massachusetts	Springfield	Bell Atlantic		19.42	0.0900	97.67	1.95
Michigan	Detroit	Ameritech		21.54	0.0842	44.52	3.50
Michigan	Grand Rapids	Ameritech		17.91	0.0820	44.52	3.50
Michigan	Saginaw	Ameritech		19.19	0.0842	44.52	3.50
Minnesota	Detroit Lakes	US West	42.28	27.69	0.0900	51.01	3.00
Minnesota	Minneapolis	US West	54.85	37.30	0.0900	51.25	3.00
Mississippi	Pascagoula	BellSouth	56.16	39.37	0.0600	71.69	3.00
Missouri	Kansas City	SBC	45.62	27.08	0.0800	61.50	3.25
Missouri	Mexico	SBC	36.29	22.15	0.0800	59.96	3.25
Missouri	St. Louis	SBC	45.15	26.80	0.0800	61.63	3.25
Montana	Butte	US West	44.07	25.19	0.0500	61.40	3.00
Nebraska	Grand Island	US West	47.79	30.59	0.0927	49.13	3.00
New Jersey	Phillipsburg	Bell Atlantic		17.64	0.0650	80.27	0.95
New Mexico	Alamogordo	US West	56.37	25.76	0.1560	57.29	3.00
New York	Binghamton	Bell Atlantic		23.27	0.1115	120.46	5.71
New York	Buffalo	Bell Atlantic		23.61	0.1135	122.62	5.71
New York	Massena	Bell Atlantic		23.12	0.1119	119.75	5.71
New York	New York City	Bell Atlantic		23.72	0.1138	123.22	5.71
New York	Ogdensburg	Bell Atlantic		23.77	0.1119	123.12	5.71
New York	Rochester	Frontier		21.51	0.1238	55.56	2.50
North Carolina	Raleigh	BellSouth	39.94			66.95	3.00
North Carolina	Rockingham	BellSouth	34.52			66.95	3.00
Ohio	Canton	Ameritech		33.75	0.0800	62.85	2.99
Ohio	Cincinnati	Cincinnati Bell	52.99	36.39	0.1400	55.78	2.50

Table 1.10
Telephone Rates in the Sample Cities for a Business with a Single Line
(as of October 15, 1997)

State	City	Telephone Company	Monthly Telephone Rate including touch-tone, surcharges, and taxes		Cost of a five-minute same-zone daytime call	Connection Charges including touch-tone, surcharges, and taxes	Least-cost inside wiring maintenance plan
			Flat-rate Service	Measured/Message Service			
Ohio	Cleveland	Ameritech		31.69	0.0800	62.85	2.99
Ohio	Columbus	Ameritech		31.69	0.0800	62.85	2.99
Ohio	Toledo	Ameritech		33.75	0.0800	62.85	2.99
Oregon	Corvallis	US West	39.58	25.93	0.1545	31.93	3.00
Oregon	Portland	US West	42.04	28.31	0.1545	31.93	3.00
Pennsylvania	Allentown	Bell Atlantic		21.98	0.0700	79.50	0.95
Pennsylvania	Ellwood City	Bell Atlantic		24.71	0.0700	79.50	1.50
Pennsylvania	Johnstown	GTE		24.74	0.0593	60.44	1.75
Pennsylvania	New Castle	Bell Atlantic		24.71	0.0700	79.50	1.50
Pennsylvania	Philadelphia	Bell Atlantic		16.25	0.0700	79.50	1.50
Pennsylvania	Pittsburgh	Bell Atlantic		16.25	0.0700	79.50	1.50
Pennsylvania	Scranton	Bell Atlantic		21.98	0.0700	79.50	1.50
Rhode Island	Providence	Bell Atlantic		24.22	0.1071	46.50	1.95
South Carolina	Beaufort	Sprint	38.04	24.36	0.1200	35.60	1.25
Tennessee	Memphis	BellSouth	54.95	40.53	0.1055	67.12	2.20
Tennessee	Nashville	BellSouth	52.35	38.69	0.1000	63.62	2.20
Texas	Brownsville	SBC	31.23	22.15	0.0800	68.99	2.75
Texas	Corpus Christi	SBC	32.48	23.14	0.0800	70.72	2.75
Texas	Dallas	SBC	37.51	27.12	0.0800	68.82	2.75
Texas	Fort Worth	SBC	33.35	23.43	0.0800	67.87	2.75
Texas	Houston	SBC	41.01	28.85	0.0800	70.32	2.75
Texas	San Antonio	SBC	33.82	23.94	0.0800	68.78	2.75
Utah	Logan	US West	30.14			53.00	2.75
Virginia	Richmond	Bell Atlantic	72.53	20.80	0.0993	64.00	3.00
Virginia	Smithfield	GTE	29.98	20.46	0.1070	29.25	1.75
Washington	Everett	GTE	39.98	24.53	0.0950	70.67	1.75
Washington	Seattle	US West	37.19	27.37	0.1064	55.45	3.00
West Virginia	Huntington	Bell Atlantic	73.03	33.90	0.1550	96.90	3.00
Wisconsin	Milwaukee	Ameritech		26.64	0.0800	68.27	3.50
Wisconsin	Racine	Ameritech		28.33	0.0800	67.95	3.50

Table 1.11
Monthly Telephone Rates in the Sample Cities for a Business with a Single Line *
(as of October 15)

State	City	1990	1991	1992	1993	1994	1995	1996	1997
Alabama	Huntsville	\$61.61	\$62.49	\$62.74	\$61.58	\$60.55	\$56.15	\$53.46	\$50.90
Alaska	Anchorage	21.99	21.99	29.16	33.33	31.04	31.05	31.05	31.05
Arizona	Tucson	33.90	40.65	40.72	40.72	40.72	41.73	41.71	42.00
Arkansas	Pine Bluff	42.77	42.92	43.10	42.93	41.10	40.91	41.05	41.12
Arkansas	West Memphis	52.15	56.05	56.19	55.52	53.30	53.70	53.85	54.01
California	Fresno	29.11	30.33	30.11	29.97	29.97	31.06	31.29	31.75
California	Long Beach	35.16	38.10	38.39	38.39	36.92	43.95	43.84	43.84
California	Los Angeles	30.58	31.76	31.52	31.38	31.38	33.36	33.60	34.02
California	Oakland	29.34	30.75	30.52	30.67	30.67	32.63	32.86	33.29
California	San Jose	29.20	30.32	30.10	29.96	29.96	31.90	32.13	32.56
California	San Francisco	29.20	30.46	30.52	30.67	31.18	32.63	33.38	33.29
California	Bakersfield	28.37	29.50	29.29	29.15	29.15	31.06	31.29	31.75
California	Anaheim	27.81	28.88	29.24	29.10	29.10	30.43	30.65	31.10
California	Salinas	30.66	31.08	30.85	30.71	31.00	32.97	33.21	33.64
California	San Bernadino	31.42	37.41	37.86	37.86	36.41	43.35	43.25	43.25
California	San Diego	27.81	28.88	28.67	28.54	28.54	30.43	30.65	31.10
Colorado	Boulder	43.91	46.15	46.46	46.94	46.88	47.16	47.15	46.96
Colorado	Colorado Springs	38.89	43.21	43.65	44.64	44.27	43.82	44.42	44.42
Colorado	Denver	44.23	46.47	46.58	46.62	46.69	46.68	46.65	46.59
Connecticut	Ansonia	33.04	35.39	35.39	41.81	40.76	43.70	43.70	43.70
Connecticut	Norwalk	36.53	39.47	38.70	38.70	37.91	40.86	40.86	40.86
District of Columbia	Washington	34.60	34.73	33.88	35.32	35.32	33.37	39.17	37.84
Florida	West Palm Beach	38.43	37.81	38.15	38.60	39.47	37.39	38.13	38.13
Florida	Tampa	40.70	40.91	41.53	37.66	37.66	37.87	41.09	41.09
Florida	Miami	40.60	37.65	41.44	41.88	40.65	40.65	40.67	40.67
Georgia	Albany	42.67	41.87	39.14	39.70	39.74	39.74	41.00	41.00
Georgia	Atlanta	53.32	53.61	53.61	53.61	53.64	58.82	58.87	58.87
Hawaii	Honolulu	40.17	40.25	40.25	41.85	42.74	44.39	46.09	47.32
Illinois	Chicago	34.17	34.20	33.87	34.13	34.12	32.12	31.91	31.91
Illinois	Decatur	37.89	37.92	37.76	38.02	38.01	35.96	35.71	35.71
Illinois	Rock Island	38.66	38.57	38.39	38.65	38.64	36.58	36.58	36.58
Indiana	Indianapolis	60.85	60.85	59.96	60.24	57.46	56.78	55.84	55.84
Indiana	Terre Haute	46.39	46.98	46.98	46.98	47.07	47.07	47.03	47.03
Iowa	Fort Dodge	20.51	22.17	22.17	22.17	22.44	22.44	22.44	22.44
Kentucky	Louisville	58.75	61.01	60.96	60.96	60.96	61.01	55.87	56.84
Louisiana	New Orleans	55.31	55.70	55.22	55.71	50.21	50.21	46.30	46.12
Louisiana	Baton Rouge	52.31	51.44	51.44	51.65	48.55	49.50	47.76	46.34
Maine	Portland	40.13	40.52	40.52	40.52	40.54	38.63	38.82	39.75
Maryland	Baltimore	42.64	43.10	44.97	43.57	43.57	43.57	43.57	43.60
Massachusetts	Boston	36.90	43.41	54.10	49.77	43.22	42.78	42.78	42.78
Massachusetts	Hyannis	32.16	32.16	43.42	46.92	46.92	46.92	46.92	48.38
Massachusetts	Springfield	35.29	37.28	38.89	49.77	43.22	38.89	38.89	38.89
Michigan	Detroit	36.17	34.50	36.31	36.35	37.02	37.81	40.89	40.89
Michigan	Grand Rapids	34.48	34.49	34.63	34.62	35.29	36.02	35.81	35.81
Michigan	Saginaw	34.29	34.29	34.43	34.45	35.11	36.59	37.95	37.95
Minnesota	Detroit Lakes	42.14	42.34	42.34	42.37	42.35	42.41	42.41	42.28
Minnesota	Minneapolis	53.25	53.50	53.50	54.93	54.91	54.98	54.98	54.85
Mississippi	Pascagoula	56.05	56.75	56.56	56.59	57.33	57.33	57.41	56.16
Missouri	Mexico	35.87	35.93	35.93	36.00	32.28	36.13	36.13	36.29
Missouri	St. Louis	49.26	49.32	49.32	49.39	46.02	45.15	45.15	45.15
Missouri	Kansas City	50.19	50.25	50.25	50.33	46.02	45.57	45.57	45.62
Montana	Butte	45.26	45.26	45.26	43.82	43.82	43.82	43.82	44.07
Nebraska	Grand Island	47.77	47.84	47.85	47.87	47.87	47.84	47.79	47.79
New Jersey	Phillipsburg	27.84	27.84	27.58	27.58	27.58	27.58	26.65	26.51
New Mexico	Alamogordo	55.38	54.76	55.31	55.48	55.84	56.03	56.20	56.37
New York	New York	51.71	53.39	52.91	52.91	51.13	50.92	50.73	49.09
New York	Rochester	47.24	50.69	51.23	50.34	49.84	48.28	48.28	48.28
New York	Ogdensburg	53.73	53.77	52.84	52.84	51.07	50.85	50.76	49.12
New York	Massena	45.10	52.30	51.39	51.39	49.67	49.46	49.37	47.78
New York	Buffalo	46.20	53.47	52.56	52.56	50.80	50.58	50.49	48.86
New York	Binghamton	44.96	52.14	51.24	51.24	51.24	49.77	49.68	48.07

Table 1.11
Monthly Telephone Rates in the Sample Cities for a Business with a Single Line *
(as of October 15)

State	City	1990	1991	1992	1993	1994	1995	1996	1997
North Carolina	Raleigh	43.22	43.88	41.98	41.98	41.76	41.53	40.74	39.94
North Carolina	Rockingham	37.01	37.69	36.63	36.63	36.42	36.11	35.32	34.52
Ohio	Canton	44.48	44.48	44.48	44.48	44.48	44.22	44.22	44.22
Ohio	Cincinnati	51.37	51.75	51.75	51.75	53.19	52.99	52.99	52.99
Ohio	Cleveland	44.48	44.48	44.48	44.48	44.48	43.19	42.16	42.16
Ohio	Columbus	44.48	44.48	44.48	44.48	44.48	43.19	42.16	42.16
Ohio	Toledo	44.48	44.48	44.48	44.48	44.48	44.22	44.22	44.22
Oregon	Corvallis	44.50	46.06	39.59	39.60	39.69	36.99	39.56	39.58
Oregon	Portland	46.51	47.68	42.89	46.06	46.18	42.79	42.29	42.04
Pennsylvania	Scranton	35.76	35.76	35.76	35.76	35.98	35.98	37.34	37.26
Pennsylvania	Philadelphia	30.46	30.46	30.46	30.63	30.63	30.63	28.55	31.53
Pennsylvania	Pittsburgh	30.46	30.46	30.46	30.63	30.63	31.72	31.72	31.53
Pennsylvania	Ellwood City	38.43	38.43	38.43	38.81	36.52	36.52	38.81	39.99
Pennsylvania	New Castle	38.43	38.43	38.43	38.81	38.81	38.81	38.81	39.99
Pennsylvania	Allentown	35.76	35.76	35.76	36.09	35.98	37.34	37.34	37.26
Pennsylvania	Johnstown	36.97	38.24	37.65	37.63	37.70	37.37	37.72	37.70
Rhode Island	Providence	43.87	43.78	47.74	50.25	48.44	48.44	47.82	47.82
South Carolina	Beaufort	38.71	40.51	38.69	38.69	38.69	38.04	38.04	38.04
Tennessee	Memphis	54.79	54.70	54.70	54.70	54.70	54.70	54.95	54.95
Tennessee	Nashville	52.37	52.65	52.65	52.35	52.35	52.35	52.35	52.35
Texas	San Antonio	33.22	32.93	34.67	34.61	34.19	34.14	33.86	33.82
Texas	Houston	39.70	41.79	41.73	41.83	41.27	41.37	40.35	41.01
Texas	Fort Worth	33.48	33.18	34.92	35.11	34.44	34.50	34.27	33.35
Texas	Dallas	36.14	37.83	37.84	39.14	38.66	38.65	38.49	37.51
Texas	Corpus Christi	30.65	31.12	32.47	32.62	31.90	31.82	31.85	32.48
Texas	Brownsville	30.32	30.03	29.74	29.74	29.23	31.23	31.23	31.23
Utah	Logan	35.42	31.81	31.81	31.84	31.88	31.93	30.22	30.14
Virginia	Richmond	72.66	72.94	72.68	75.06	75.06	75.06	72.53	72.53
Virginia	Smithfield	30.15	29.98	30.08	30.08	30.08	30.08	30.08	29.98
Washington	Everett	50.25	46.21	47.50	39.98	39.98	39.98	39.98	39.98
Washington	Seattle	39.08	38.35	38.39	39.43	37.03	37.03	37.03	37.19
West Virginia	Huntington	69.86	69.86	73.39	73.39	73.39	73.39	75.05	73.03
Wisconsin	Milwaukee	44.71	42.63	41.54	39.27	37.48	37.48	37.51	37.51
Wisconsin	Racine	44.45	42.68	41.58	39.40	39.40	39.12	39.16	39.16

* Rate is based upon flat-rate service where available, and measured/message service with 200 five-minute, same-zone business-day calls elsewhere. Rates include touch-tone, sucharges, 911 charges, and taxes.

Table 1.12
 Connection Charge for a Single Business Line in the Sample Cities *
 (as of October 15)

State	City	1990	1991	1992	1993	1994	1995	1996	1997
Alabama	Huntsville	\$92.90	\$97.74	\$73.62	\$73.62	\$73.62	\$73.62	\$69.00	\$69.00
Alaska	Anchorage	34.25	34.25	34.25	34.25	30.75	30.75	30.75	30.75
Arizona	Tucson	69.97	62.19	62.31	62.31	62.31	62.47	58.91	58.91
Arkansas	Pine Bluff	101.33	101.67	101.74	101.69	93.44	92.94	93.27	93.19
Arkansas	West Memphis	101.31	103.69	103.67	102.71	93.60	94.24	94.51	94.61
California	Fresno	76.20	70.84	70.25	71.17	69.87	71.64	72.23	73.16
California	Long Beach	74.30	83.08	83.78	83.78	80.20	84.33	92.51	92.51
California	Los Angeles	76.20	70.84	70.25	71.17	69.87	71.64	72.23	73.16
California	Oakland	76.20	70.84	70.25	71.17	69.87	71.64	72.23	73.16
California	San Jose	76.20	70.84	70.25	71.17	69.87	71.64	72.23	73.16
California	San Francisco	76.20	70.84	70.25	71.17	69.87	71.64	72.23	73.16
California	Bakersfield	76.20	70.84	70.25	71.17	69.87	71.64	72.23	73.16
California	Anaheim	76.20	70.84	70.25	71.17	69.87	71.64	72.23	73.16
California	Salinas	76.20	70.84	70.25	71.17	69.87	71.64	72.23	73.16
California	San Bernadino	74.30	83.08	83.78	83.78	80.20	84.33	91.25	91.25
California	San Diego	76.20	70.84	70.25	71.17	69.87	71.64	72.23	73.16
Colorado	Boulder	90.30	74.66	74.66	74.66	74.84	74.91	75.08	75.08
Colorado	Colorado Springs	90.53	74.11	73.68	73.68	72.80	72.80	72.80	72.80
Colorado	Denver	91.12	75.11	75.11	75.11	75.11	75.11	75.11	75.11
Connecticut	Ansonia	60.00	63.60	63.60	68.90	68.90	68.90	68.90	68.90
Connecticut	Norwalk	60.00	63.60	63.60	68.90	68.90	68.90	68.90	68.90
District of Columbia	Washington	70.16	71.09	66.03	66.03	66.03	66.03	83.25	83.25
Florida	West Palm Beach	57.84	57.77	57.77	58.32	59.92	59.92	59.92	59.92
Florida	Tampa	67.15	67.59	67.59	78.89	78.89	78.89	74.07	74.07
Florida	Miami	57.84	57.77	57.77	58.32	59.92	60.20	60.20	60.20
Georgia	Albany	52.25	52.25	52.25	52.25	52.25	52.25	52.25	58.25
Georgia	Atlanta	52.25	52.25	52.25	52.25	52.25	52.25	52.25	58.25
Hawaii	Honolulu	45.50	47.50	47.50	47.50	47.50	47.50	51.47	52.97
Illinois	Chicago	93.64	93.68	93.03	93.03	93.03	57.64	57.64	57.64
Illinois	Decatur	93.30	93.33	93.17	93.17	93.17	57.72	57.72	57.72
Illinois	Rock Island	93.36	93.40	93.17	93.17	93.17	57.72	57.72	57.72
Indiana	Indianapolis	59.00	59.00	59.00	59.00	59.00	59.00	59.00	59.00
Indiana	Terre Haute	68.67	68.78	68.78	68.78	68.78	68.78	68.78	68.78
Iowa	Fort Dodge	25.95	15.65	15.65	15.65	15.65	15.65	15.65	15.65
Kentucky	Louisville	47.57	47.50	47.50	47.50	47.50	47.50	73.00	73.00
Louisiana	New Orleans	90.44	91.28	90.40	88.40	87.55	87.55	87.55	87.55
Louisiana	Baton Rouge	90.44	90.40	90.40	88.06	88.06	87.55	87.55	87.55
Maine	Portland	58.80	59.36	59.36	59.36	59.36	59.36	59.36	59.36
Maryland	Baltimore	70.00	70.00	70.00	98.50	98.50	98.50	98.50	98.50
Massachusetts	Boston	45.58	93.33	97.67	97.67	97.67	97.67	97.67	97.67
Massachusetts	Hyannis	45.58	93.33	97.67	97.67	97.67	97.67	97.67	97.67
Massachusetts	Springfield	45.58	93.33	97.67	97.67	97.67	97.67	97.67	97.67
Michigan	Detroit	45.78	43.68	43.68	43.68	44.52	44.52	44.52	44.52
Michigan	Grand Rapids	43.68	43.68	43.68	43.68	43.68	44.52	44.52	44.52
Michigan	Saginaw	43.68	43.68	43.68	43.68	44.52	44.52	44.52	44.52
Minnesota	Detroit Lakes	34.00	34.00	47.50	49.50	49.50	49.50	47.93	51.01
Minnesota	Minneapolis	34.00	34.00	47.50	49.50	49.50	49.50	48.15	51.25
Mississippi	Pascagoula	76.90	77.58	77.58	71.69	71.69	71.69	71.69	71.69
Missouri	Mexico	68.55	68.55	68.55	68.55	68.55	59.70	59.70	59.96
Missouri	St. Louis	70.10	70.10	70.10	70.10	70.78	61.63	61.63	61.63
Missouri	Kansas City	70.55	70.55	70.55	70.55	70.78	61.44	61.44	61.50
Montana	Butte	64.40	64.40	64.40	61.40	61.40	61.40	61.40	61.40
Nebraska	Grand Island	69.96	69.96	71.94	49.05	49.05	49.05	49.13	49.13
New Jersey	Phillipsburg	79.50	79.50	79.50	79.50	79.50	79.50	80.27	80.27
New Mexico	Alamogordo	74.20	64.61	64.72	64.72	57.46	57.47	57.29	57.29
New York	New York	151.17	151.53	150.15	124.64	124.53	123.95	123.45	123.22
New York	Rochester	37.80	59.61	59.44	58.28	57.16	55.56	55.56	55.56
New York	Ogdensburg	150.99	151.26	149.71	124.28	124.17	123.58	123.35	123.12
New York	Massena	146.86	147.12	145.62	120.88	120.77	120.20	119.98	119.75
New York	Buffalo	149.10	150.61	149.09	123.77	123.65	123.08	122.85	122.62
New York	Binghamton	146.39	146.63	145.13	120.48	120.48	120.92	120.68	120.46
North Carolina	Raleigh	62.50	64.38	64.38	64.38	64.38	64.38	64.38	66.95
North Carolina	Rockingham	62.50	64.38	64.38	64.38	64.38	64.38	64.38	66.95

Table 1.12
 Connection Charge for a Single Business Line in the Sample Cities *
 (as of October 15)

State	City	1990	1991	1992	1993	1994	1995	1996	1997
Ohio	Canton	72.15	72.15	72.15	72.15	72.15	62.85	62.85	62.85
Ohio	Cincinnati	54.00	54.00	54.00	54.00	55.78	55.78	55.78	55.78
Ohio	Cleveland	72.15	72.15	72.15	72.15	72.15	62.85	62.85	62.85
Ohio	Columbus	72.15	72.15	72.15	72.15	72.15	62.85	62.85	62.85
Ohio	Toledo	72.15	72.15	72.15	72.15	72.15	62.85	62.85	62.85
Oregon	Corvallis	31.00	31.00	31.00	31.00	31.00	31.00	31.93	31.93
Oregon	Portland	31.15	31.00	31.00	31.00	31.00	31.00	31.00	31.93
Pennsylvania	Scranton	79.50	79.50	79.50	79.50	79.50	79.50	79.50	79.50
Pennsylvania	Philadelphia	79.50	79.50	79.50	79.50	79.50	79.50	79.50	79.50
Pennsylvania	Pittsburgh	79.50	79.50	79.50	79.50	79.50	79.50	79.50	79.50
Pennsylvania	Ellwood City	79.50	79.50	79.50	79.50	79.50	79.50	79.50	79.50
Pennsylvania	New Castle	79.50	79.50	79.50	79.50	79.50	79.50	79.50	79.50
Pennsylvania	Allentown	79.50	79.50	79.50	79.50	79.50	79.50	79.50	79.50
Pennsylvania	Johnstown	63.40	65.71	59.96	60.53	60.44	60.44	60.44	60.44
Rhode Island	Providence	38.84	38.84	39.03	39.03	46.50	46.50	46.50	46.50
South Carolina	Beaufort	35.60	35.60	35.60	35.60	35.60	35.60	35.60	35.60
Tennessee	Memphis	66.05	66.80	66.80	66.80	66.80	66.80	67.12	67.12
Tennessee	Nashville	63.12	63.62	63.62	63.62	63.62	63.62	63.62	63.62
Texas	San Antonio	71.72	68.47	72.10	71.97	69.45	69.34	68.78	68.78
Texas	Houston	72.78	73.67	73.57	73.74	70.89	70.93	69.18	70.32
Texas	Fort Worth	72.42	69.13	72.75	73.14	70.09	70.21	69.75	67.87
Texas	Dallas	73.07	73.60	73.35	73.64	70.91	70.91	70.61	68.82
Texas	Corpus Christi	72.16	69.31	72.32	72.64	69.45	69.29	69.34	70.72
Texas	Brownsville	71.04	67.81	67.17	67.17	64.57	69.00	69.00	68.99
Utah	Logan	70.49	53.13	53.13	53.13	53.06	53.06	53.06	53.00
Virginia	Richmond	64.00	64.00	64.00	64.00	64.00	64.00	64.00	64.00
Virginia	Smithfield	29.25	29.25	29.25	29.25	29.25	29.25	29.25	29.25
Washington	Everett	60.18	41.24	42.20	57.19	57.19	57.19	70.67	70.67
Washington	Seattle	56.33	56.02	55.73	55.43	55.25	55.25	55.25	55.45
West Virginia	Huntington	96.90	96.90	96.90	96.90	96.90	96.90	96.90	96.90
Wisconsin	Milwaukee	71.54	68.21	68.21	68.21	68.21	68.21	68.27	68.27
Wisconsin	Racine	71.54	68.21	68.21	68.21	68.21	67.88	67.95	67.95

* Charges include touch-tone charges, surcharges, and taxes.

Table 1.13
Average Local Rates for Businesses with a Key System Line in Urban Areas
(as of October 15, 1997)

	Average Rate	Median Rate
Monthly Charge for Flat-rate Service	\$45.52	\$43.60
Federal and State Subscriber Line Charges	6.59	6.00
Additional Monthly Charge for Touch-tone Service	0.65	0.00
Taxes and 911 Charges	7.26	7.20
Total Monthly Charge for Flat-rate Service	60.02	59.54
Number of Sample Cities with Flat-rate Service	53	-
Monthly Charge for Measured/Message Service	\$21.15	\$17.38
Federal and State Subscriber Line Charges	5.59	5.92
Additional Monthly Charge for Touch-tone Service	0.43	0.00
Taxes and 911 Charges	3.65	3.07
Total Monthly Charge for Measured/Message Service	30.82	26.41
Cost of a 5-minute Daytime Call	0.0917	0.0800
Number of Sample Cities with Message/Measured Service	79	-
Basic Connection Charge for Three Lines	\$168.23	\$156.75
Additional Connection Charge for Touch-tone Service	0.67	0.00
Taxes	10.98	10.37
Total Connection Charge for Three Lines	179.88	168.70
Additional Charge if Drop Line and Connection Block Needed	9.55	0.00

Table 1.14
Average Local Rates for Businesses with a Key System Line in Urban Areas

	1989	1990	1991	1992	1993	1994	1995	1996	1997
Monthly Representative Service Charge*	\$37.19	\$36.74	\$36.92	\$37.18	\$37.36	\$36.98	\$37.34	\$36.98	\$37.59
Subscriber Line Charges	4.87	4.98	4.85	4.78	5.36	5.45	5.61	5.50	5.73
Extra for Touch-tone	2.65	2.49	1.94	1.82	1.67	1.23	1.00	0.85	0.47
Taxes including 911 Charges	5.18	5.23	5.13	5.29	5.39	5.37	5.59	5.66	5.82
Total Monthly Charge	49.89	49.44	48.84	49.08	49.78	49.04	49.54	49.00	49.62
Monthly Charge for Flat-rate Service	\$44.84	\$44.75	\$44.35	\$44.44	\$44.85	\$44.88	\$45.31	\$45.33	\$45.52
Subscriber Line Charges	5.65	5.68	5.55	5.52	6.02	6.16	6.17	6.10	6.59
Extra for Touch-tone	2.25	2.15	1.87	1.84	1.76	1.13	1.07	0.96	0.65
Taxes including 911 Charges	6.77	6.73	6.70	6.83	6.96	6.96	7.16	7.16	7.26
Total Monthly Charge for Flat-rate Service	59.51	59.32	58.48	58.64	59.60	59.14	59.70	59.55	60.02
Number of Sample Cities with Flat-rate Service	59	56	54	54	54	53	53	53	53
Monthly Charge for Measured/Message Service	\$20.38	\$20.48	\$19.81	\$19.38	\$19.98	\$19.81	\$20.16	\$20.13	\$21.15
200 Five-minute Business-day Same-zone Calls	16.01	16.10	16.88	17.45	17.86	17.66	17.36	17.40	17.12
Subscriber Line Charges	4.78	4.88	4.74	4.67	5.24	5.35	5.53	5.46	5.59
Extra for Touch-tone	2.77	2.59	1.99	1.86	1.70	1.24	1.00	0.86	0.43
Taxes including 911 Charges	4.93	5.10	4.91	5.05	5.20	5.18	5.35	5.55	5.70
Total Monthly Charge for Measured/Message Service	48.87	49.14	48.33	48.41	49.98	49.24	49.40	49.40	49.98
Number of Sample Cities with Measured/Message Service	77	77	78	78	80	81	81	79	79
Cost of a Five-minute Business-day Same-zone Call	\$0.0932	\$0.0948	\$0.0935	\$0.0955	\$0.0969	\$0.0947	\$0.0928	\$0.0927	\$0.0917
Basic Connection Charge for Three Lines	\$166.89	\$165.13	\$178.14	\$178.25	\$170.59	\$169.78	\$167.99	\$167.93	\$168.23
Additional Connection Charge for Touch-tone Service	5.10	5.68	3.40	3.39	3.48	2.75	0.67	0.67	0.67
Taxes	9.43	9.30	9.67	9.61	9.02	9.00	9.84	10.04	10.98
Total Connection Charge for Three Lines	181.42	180.11	191.21	191.25	183.08	181.54	178.49	178.64	179.88
Additional Charge if Drop Line and Connection Block Needed	13.39	14.09	20.79	12.76	13.28	11.58	11.69	9.89	9.55

* Rate is based upon flat-rate service where available, and measured/message service with 200 five-minute, same-zone business-day calls elsewhere.

Table 1.15
Monthly Telephone Rates in the Sample Cities for a Business with a Key System Line *
(as of October 15)

State	City	1990	1991	1992	1993	1994	1995	1996	1997
Alabama	Huntsville	\$90.44	\$91.97	\$90.91	\$88.82	\$78.13	\$73.73	\$70.77	\$65.70
Alaska	Anchorage	29.61	29.61	36.01	40.80	41.12	41.13	41.13	41.13
Arizona	Tucson	45.92	52.66	52.75	52.76	52.76	53.80	53.74	54.92
Arkansas	Pine Bluff	53.25	53.30	52.78	53.43	51.55	51.24	51.61	51.64
Arkansas	West Memphis	64.41	69.10	68.51	68.57	65.61	66.02	66.39	66.54
California	Anaheim	32.54	29.94	30.23	30.09	30.09	32.15	32.51	32.71
California	Bakersfield	33.10	30.56	30.26	30.12	30.12	32.79	33.14	33.36
California	Fresno	33.84	31.39	31.08	30.94	30.94	32.79	33.14	33.36
California	Long Beach	39.26	42.44	42.22	41.24	39.77	46.81	46.70	46.70
California	Los Angeles	35.78	32.92	32.59	32.44	32.44	35.25	35.64	35.78
California	Oakland	34.32	31.88	31.56	31.71	31.71	34.48	34.29	34.44
California	Salinas	35.62	32.19	31.87	31.73	32.03	34.79	35.17	35.34
California	San Bernadino	48.73	41.67	41.64	40.68	39.23	46.17	46.06	46.06
California	San Diego	32.54	29.94	29.64	29.50	29.50	32.15	32.51	32.71
California	San Francisco	34.16	31.58	31.56	31.71	32.22	34.48	35.37	35.01
California	San Jose	34.16	31.43	31.12	30.97	30.97	33.70	34.07	34.25
Colorado	Boulder	52.33	52.18	52.54	53.77	54.30	54.59	54.57	56.61
Colorado	Colorado Springs	47.26	49.14	49.58	51.23	51.33	50.88	51.48	53.63
Colorado	Denver	52.69	52.53	52.70	53.44	54.12	54.11	54.07	56.22
Connecticut	Ansonia	39.30	40.29	40.29	47.86	47.95	49.53	49.53	49.53
Connecticut	Norwalk	42.80	44.37	43.65	44.49	44.68	46.69	46.69	46.69
District of Columbia	Washington	35.20	35.34	35.62	35.73	35.73	33.75	35.79	37.84
Florida	Miami	61.32	56.68	62.40	63.02	61.80	56.38	56.41	56.48
Florida	Tampa	61.17	61.43	62.37	52.77	52.77	52.97	67.60	67.60
Florida	West Palm Beach	58.13	57.16	57.66	58.28	57.12	52.08	53.08	53.22
Georgia	Albany	63.39	62.06	59.59	60.15	60.18	60.18	62.10	63.16
Georgia	Atlanta	79.27	79.11	81.39	81.39	81.42	89.45	89.49	89.06
Hawaii	Honolulu	49.20	50.50	50.47	53.21	54.23	56.41	58.38	62.99
Illinois	Chicago	34.17	34.20	33.87	34.85	34.84	32.83	32.63	33.31
Illinois	Decatur	37.89	37.92	37.76	38.74	38.73	36.67	36.43	37.11
Illinois	Rock Island	38.66	38.57	38.39	39.36	39.35	37.30	37.29	37.97
Indiana	Indianapolis	68.95	69.12	68.19	69.29	66.22	65.80	64.94	64.00
Indiana	Terre Haute	69.72	70.32	70.32	70.32	70.41	70.41	70.37	70.37
Iowa	Fort Dodge	25.01	23.90	28.50	29.09	29.36	37.31	37.31	37.31
Kentucky	Louisville	89.46	92.72	92.95	93.23	93.23	81.56	76.42	75.57
Louisiana	Baton Rouge	80.39	78.87	79.04	77.39	74.29	75.28	73.36	72.97
Louisiana	New Orleans	85.15	85.86	85.30	82.57	75.89	75.89	71.98	72.86
Maine	Portland	42.84	43.25	43.25	43.25	43.27	41.36	41.55	42.39
Maryland	Baltimore	44.79	45.47	47.87	46.31	46.20	46.20	46.25	46.52
Massachusetts	Boston	37.67	44.04	54.91	51.36	45.62	45.49	45.49	45.40
Massachusetts	Hyannis	32.94	32.79	44.23	48.51	49.32	49.62	49.62	50.99
Massachusetts	Springfield	36.07	37.91	39.70	51.36	45.62	41.59	41.59	41.51
Michigan	Detroit	36.53	34.85	36.78	38.36	39.07	39.86	42.93	42.09
Michigan	Grand Rapids	35.90	35.91	35.08	36.54	37.24	37.97	37.75	36.96
Michigan	Saginaw	35.70	35.70	34.88	36.37	37.07	38.58	39.93	39.11
Minnesota	Detroit Lakes	43.18	44.76	44.85	47.48	49.05	49.34	48.73	48.93
Minnesota	Minneapolis	54.30	54.28	56.57	60.07	61.64	61.93	61.33	61.52
Mississippi	Pascagoula	85.07	86.02	85.26	82.93	83.67	83.67	84.39	84.86
Missouri	Kansas City	63.68	63.37	63.19	65.22	61.15	60.77	60.96	61.00
Missouri	Mexico	45.17	44.87	44.70	46.65	43.29	48.72	48.92	49.11
Missouri	St. Louis	62.49	62.19	62.01	64.01	61.15	60.22	60.40	60.37
Montana	Butte	56.07	56.07	56.07	54.63	54.28	54.63	54.63	56.44
Nebraska	Grand Island	58.74	58.39	57.92	59.09	60.17	59.86	60.02	60.69
New Jersey	Phillipsburg	23.23	26.80	26.21	27.42	27.42	27.42	31.97	31.72
New Mexico	Alamogordo	67.06	66.11	66.41	67.32	67.71	67.90	68.07	70.26
New York	Binghamton	47.72	54.55	53.05	53.77	53.77	52.55	52.46	50.77
New York	Buffalo	48.98	55.91	54.39	55.12	53.58	53.36	53.27	51.55
New York	Massena	47.85	54.71	53.21	53.93	52.21	52.21	52.13	50.44
New York	New York	54.49	55.84	54.75	55.47	53.70	53.71	53.52	51.79
New York	Ogdensburg	87.36	56.25	54.71	55.44	53.90	53.68	53.59	51.86
New York	Rochester	50.60	52.34	56.65	56.22	55.70	54.17	54.17	54.17
North Carolina	Raleigh	65.42	66.01	63.48	63.48	62.73	63.08	62.28	60.44
North Carolina	Rockingham	56.11	56.73	55.13	55.13	54.92	54.61	53.82	52.71

Table 1.15
Monthly Telephone Rates in the Sample Cities for a Business with a Key System Line *
(as of October 15)

State	City	1990	1991	1992	1993	1994	1995	1996	1997
Ohio	Canton	48.97	48.83	48.99	49.92	49.92	50.25	50.25	49.24
Ohio	Cincinnati	62.90	63.83	64.00	64.61	66.97	70.26	70.26	70.26
Ohio	Cleveland	48.97	48.83	48.99	49.92	49.92	49.22	48.19	47.18
Ohio	Columbus	48.97	48.83	48.99	49.92	49.92	49.22	48.19	47.18
Ohio	Toledo	48.97	48.83	48.99	49.92	49.92	50.25	0.00	49.24
Oregon	Corvallis	48.52	50.01	42.76	43.82	43.91	45.15	47.72	48.14
Oregon	Portland	50.55	51.65	46.08	50.62	50.76	51.65	50.52	50.64
Pennsylvania	Allentown	35.42	35.17	35.40	35.82	35.72	37.09	37.45	37.03
Pennsylvania	Ellwood City	38.09	37.84	38.07	38.55	38.45	38.45	38.45	39.76
Pennsylvania	Johnstown	44.62	46.44	45.49	46.58	40.82	40.49	40.84	40.82
Pennsylvania	New Castle	38.09	37.84	38.07	38.55	38.45	38.45	38.81	39.76
Pennsylvania	Philadelphia	30.07	29.82	30.05	30.36	30.27	30.27	28.55	31.30
Pennsylvania	Pittsburgh	30.07	29.82	30.05	30.36	30.27	31.36	31.72	31.30
Pennsylvania	Scranton	35.42	35.17	35.40	36.97	35.72	35.72	37.45	37.03
Rhode Island	Providence	44.91	44.39	48.48	51.01	50.03	51.20	50.58	50.49
South Carolina	Beaufort	55.95	61.09	58.69	58.69	58.69	66.61	66.61	66.61
Tennessee	Memphis	91.94	92.15	92.22	92.22	92.53	92.53	92.94	94.03
Tennessee	Nashville	87.86	88.42	88.50	88.21	88.51	88.51	88.51	89.60
Texas	Brownsville	45.97	36.00	35.49	36.92	36.35	38.78	38.96	38.93
Texas	Corpus Christi	46.48	37.10	38.53	40.21	39.40	39.24	39.45	40.21
Texas	Dallas	56.98	45.40	45.21	48.06	47.53	47.47	47.45	46.22
Texas	Fort Worth	51.27	39.74	41.64	43.40	42.65	42.66	42.57	41.39
Texas	Houston	63.17	50.08	49.83	51.50	50.88	50.94	49.87	50.67
Texas	San Antonio	50.87	39.43	41.34	42.79	42.34	42.21	42.06	41.83
Utah	Logan	41.44	37.30	37.60	39.55	39.99	40.29	38.59	38.97
Virginia	Richmond	76.13	76.41	76.15	78.94	79.52	79.52	76.94	76.96
Virginia	Smithfield	32.98	32.81	32.91	45.98	45.98	45.98	45.98	58.50
Washington	Everett	70.13	64.73	66.45	64.54	64.54	59.54	59.54	59.54
Washington	Seattle	43.08	41.01	41.44	43.91	41.49	55.01	41.72	42.00
West Virginia	Huntington	73.96	73.96	77.69	77.69	77.69	77.69	79.34	79.12
Wisconsin	Milwaukee	48.07	43.07	42.14	39.87	39.10	39.03	38.96	38.37
Wisconsin	Racine	47.81	43.13	42.17	40.00	40.00	40.66	40.59	40.01

* Rate is based upon flat-rate service where available, and measured/message service with 200 five-minute, same-zone business-day calls elsewhere. Rates include touch-tone charges, surcharges, 911 charges, and taxes.

Table 1.16
 Connection Charges for Three Key System Business Lines in the Sample Cities *
 (as of October 15)

State	City	1990	1991	1992	1993	1994	1995	1996	1997
Alabama	Huntsville	\$222.24	\$233.82	\$99.23	\$99.23	\$99.23	\$99.23	\$93.00	\$93.00
Alaska	Anchorage	65.25	65.25	65.25	65.25	54.75	54.75	54.75	54.75
Arizona	Tucson	253.22	229.90	230.31	230.31	230.31	220.89	217.76	217.76
Arkansas	Pine Bluff	303.99	305.01	305.23	305.06	280.32	278.81	279.82	279.58
Arkansas	West Memphis	303.93	311.08	311.02	308.13	280.80	282.72	283.53	283.82
California	Anaheim	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54
California	Bakersfield	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54
California	Fresno	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54
California	Long Beach	186.14	208.14	209.89	209.89	200.93	209.08	229.36	229.36
California	Los Angeles	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54
California	Oakland	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54
California	Salinas	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54
California	San Bernadino	186.14	208.14	209.89	209.89	200.93	209.08	226.24	226.24
California	San Diego	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54
California	San Francisco	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54
California	San Jose	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54
Colorado	Boulder	297.98	255.98	255.98	255.98	256.58	256.82	257.42	257.42
Colorado	Colorado Springs	298.73	254.10	252.60	252.60	249.60	249.60	249.60	249.60
Colorado	Denver	300.70	257.52	257.52	257.52	257.52	257.52	257.52	257.52
Connecticut	Ansonia	180.00	190.80	190.80	206.70	206.70	206.70	206.70	206.70
Connecticut	Norwalk	180.00	190.80	190.80	206.70	206.70	206.70	206.70	206.70
District of Columbia	Washington	124.07	125.72	116.77	116.77	116.77	116.77	147.25	147.25
Florida	Miami	99.23	99.11	99.11	100.05	85.60	86.00	86.00	86.00
Florida	Tampa	124.15	124.97	107.76	159.04	159.04	159.04	149.32	149.32
Florida	West Palm Beach	99.23	99.11	99.11	100.05	85.60	85.60	85.60	85.60
Georgia	Albany	92.25	92.25	92.25	92.25	92.25	92.25	92.25	118.25
Georgia	Atlanta	92.25	92.25	92.25	92.25	92.25	92.25	92.25	118.25
Hawaii	Honolulu	105.50	105.50	105.50	105.50	105.50	105.50	114.31	117.64
Illinois	Chicago	139.08	139.11	138.18	138.18	138.18	96.17	96.17	96.17
Illinois	Decatur	138.56	138.60	138.38	138.38	138.38	96.31	96.30	96.30
Illinois	Rock Island	138.66	138.70	138.38	138.38	138.38	96.31	96.30	96.30
Indiana	Indianapolis	99.00	99.00	99.00	99.00	99.00	99.00	59.00	59.00
Indiana	Terre Haute	113.93	114.03	114.03	114.03	114.03	114.03	114.03	114.03
Iowa	Fort Dodge	50.08	36.65	36.65	36.65	36.65	36.65	36.65	36.65
Kentucky	Louisville	95.64	95.50	95.50	95.50	95.50	95.50	117.00	117.00
Louisiana	Baton Rouge	215.32	215.24	215.24	181.30	181.30	180.25	153.47	153.47
Louisiana	New Orleans	215.32	217.33	215.24	182.00	180.25	180.25	153.47	153.47
Maine	Portland	176.40	178.08	178.08	178.08	178.08	178.08	178.08	178.08
Maryland	Baltimore	134.00	134.00	134.00	201.50	201.50	201.50	201.50	201.50
Massachusetts	Boston	98.04	201.44	205.68	205.68	205.68	205.68	205.78	205.78
Massachusetts	Hyannis	98.04	201.44	205.68	205.68	205.68	205.68	205.78	205.78
Massachusetts	Springfield	98.04	201.44	205.68	205.68	205.68	205.68	205.78	205.78
Michigan	Detroit	137.34	131.04	131.04	131.04	133.56	133.56	133.56	133.56
Michigan	Grand Rapids	131.04	131.04	131.04	131.04	131.04	133.56	133.56	133.56
Michigan	Saginaw	131.04	131.04	131.04	131.04	133.56	133.56	133.56	133.56
Minnesota	Detroit Lakes	67.50	67.50	172.50	178.50	178.50	178.50	190.10	199.37
Minnesota	Minneapolis	67.50	67.50	172.50	178.50	178.50	178.50	191.00	200.30
Mississippi	Pascagoula	178.73	180.30	180.30	103.79	103.79	103.79	103.79	103.79
Missouri	Kansas City	211.65	211.65	211.65	211.65	212.33	184.32	184.32	184.51
Missouri	Mexico	205.65	205.65	205.65	205.65	205.65	179.09	179.09	179.87
Missouri	St. Louis	210.30	210.30	210.30	210.30	212.33	184.90	184.90	184.90
Montana	Butte	226.80	226.80	226.80	217.80	217.95	217.80	217.80	217.80
Nebraska	Grand Island	125.08	125.08	128.62	179.85	179.85	179.85	180.15	180.15
New Jersey	Phillipsburg	122.50	122.50	122.50	122.50	122.50	122.50	123.69	123.69
New Mexico	Alamogordo	265.53	236.75	237.17	237.18	216.59	284.40	214.87	214.87
New York	Binghamton	310.67	311.35	308.15	234.20	234.20	235.05	234.60	234.16
New York	Buffalo	316.43	319.78	316.56	240.59	240.36	239.25	238.81	238.36
New York	Massena	311.67	312.39	309.19	234.99	234.77	233.66	233.22	232.78
New York	New York	320.80	321.74	318.80	242.29	242.07	240.95	239.97	239.52
New York	Ogdensburg	320.43	321.16	317.88	241.59	241.36	240.23	239.78	239.32
New York	Rochester	71.71	107.51	107.62	105.52	104.34	101.41	101.41	101.41

Table 1.16
 Connection Charges for Three Key System Business Lines in the Sample Cities *
 (as of October 15)

State	City	1990	1991	1992	1993	1994	1995	1996	1997
North Carolina	Raleigh	105.00	108.15	108.15	108.15	108.15	108.15	108.15	112.27
North Carolina	Rockingham	105.00	108.15	108.15	108.15	108.15	108.15	108.15	112.27
Ohio	Canton	175.95	175.95	175.95	175.95	175.95	148.05	148.05	148.05
Ohio	Cincinnati	162.00	162.00	162.00	162.00	167.34	149.34	149.34	149.34
Ohio	Cleveland	175.95	175.95	175.95	175.95	175.95	148.05	148.05	148.05
Ohio	Columbus	175.95	175.95	175.95	175.95	175.95	148.05	148.05	148.05
Ohio	Toledo	175.95	175.95	175.95	175.95	175.95	148.05	148.05	148.05
Oregon	Corvallis	93.00	93.00	93.00	93.00	93.00	117.00	120.51	120.51
Oregon	Portland	93.46	93.00	93.00	93.00	93.00	117.00	117.00	120.51
Pennsylvania	Allentown	238.50	238.50	238.50	238.50	238.50	238.50	238.50	238.50
Pennsylvania	Ellwood City	238.50	238.50	238.50	238.50	238.50	238.50	238.50	238.50
Pennsylvania	Johnstown	131.44	136.22	120.23	121.37	121.20	121.20	121.19	121.19
Pennsylvania	New Castle	238.50	238.50	238.50	238.50	238.50	238.50	238.50	238.50
Pennsylvania	Philadelphia	238.50	238.50	238.50	238.50	238.50	238.50	238.50	238.50
Pennsylvania	Pittsburgh	238.50	238.50	238.50	238.50	238.50	238.50	238.50	238.50
Pennsylvania	Scranton	238.50	238.50	238.50	238.50	238.50	238.50	238.50	238.50
Rhode Island	Providence	116.51	116.51	117.10	117.10	139.49	139.49	139.49	139.49
South Carolina	Beaufort	64.60	64.60	64.60	64.60	64.60	64.60	64.60	64.60
Tennessee	Memphis	136.04	137.60	137.60	137.60	137.60	137.60	138.26	138.26
Tennessee	Nashville	130.02	131.04	131.04	131.04	131.04	131.04	131.04	131.04
Texas	Brownsville	134.43	124.75	123.57	123.57	115.77	123.71	123.71	123.69
Texas	Corpus Christi	136.55	127.51	133.04	133.63	124.53	124.23	124.33	126.79
Texas	Dallas	138.27	135.40	134.94	135.46	127.14	127.13	126.61	123.39
Texas	Fort Worth	137.04	127.18	133.84	134.55	125.67	125.88	125.05	121.68
Texas	Houston	137.71	135.52	135.34	135.66	127.11	127.17	124.03	126.08
Texas	San Antonio	135.72	125.96	132.63	132.39	124.51	124.32	123.32	123.32
Utah	Logan	255.99	204.00	204.00	204.00	203.75	203.76	203.76	203.52
Virginia	Richmond	117.60	117.60	117.60	117.60	117.60	117.60	117.60	117.60
Virginia	Smithfield	51.25	51.25	51.25	51.25	51.25	51.25	51.25	51.25
Washington	Everett	166.92	174.49	178.53	158.61	158.61	178.04	107.36	107.36
Washington	Seattle	168.99	168.07	167.18	166.28	165.75	203.74	203.74	204.49
West Virginia	Huntington	168.70	168.70	168.70	168.70	168.70	168.70	168.70	168.70
Wisconsin	Milwaukee	117.23	111.78	111.78	111.78	111.78	111.78	111.88	111.88
Wisconsin	Racine	117.23	111.78	111.78	111.78	111.78	111.25	111.35	111.35

* Charges include touch-tone charge, surcharges, and taxes.

Table 1.17
Average Local Rates for Businesses with a PBX Trunk in Urban Areas
 (as of October 15, 1997)

	Average Rate	Median Rate
Monthly Charge for Flat-rate Service	\$50.87	\$48.96
Federal and State Subscriber Line Charges	6.57	6.00
Additional Monthly Charge for Touch-tone Service	0.81	0.00
Taxes and 911 Charges	8.14	7.34
Total Monthly Charge for Flat-rate Service	66.38	61.68
Number of Sample Cities with Flat-rate Service	53	-
Monthly Charge for Measured/Message Service	\$21.04	\$17.38
Federal and State Subscriber Line Charges	5.62	5.92
Additional Monthly Charge for Touch-tone Service	0.62	0.00
Taxes and 911 Charges	3.72	3.07
Total Monthly Charge for Measured/Message Service	31.00	26.41
Cost of a 5-minute Daytime Call	0.0925	0.0800
Number of Sample Cities with Message/Measured Service	78	-
Basic Connection Charge for Three Lines	\$168.31	\$149.00
Additional Connection Charge for Touch-tone Service	0.67	0.00
Taxes	10.99	10.37
Total Connection Charge for Three Lines	179.97	153.47
Additional Charge if Drop Line and Connection Block Needed	10.43	0.00

Table 1.18
Average Local Rates for Businesses with a PBX Trunk in Urban Areas

	1989	1990	1991	1992	1993	1994	1995	1996	1997
Monthly Representative Service Charge*	\$39.24	\$39.18	\$40.86	\$40.96	\$40.35	\$39.83	\$40.10	\$40.13	\$40.16
Subscriber Line Charges	4.98	4.98	4.85	4.78	5.36	5.45	5.61	5.57	5.72
Extra for Touch-tone	3.29	3.29	2.66	2.47	2.38	1.74	1.36	1.13	0.65
Tax including 911 Charges	5.63	5.65	5.71	5.90	5.89	5.83	6.05	6.12	6.23
Total Monthly Charge	53.14	53.10	54.08	54.11	53.98	52.85	53.12	52.95	52.77
Monthly Charge for Flat-rate Service	\$49.40	\$49.36	\$51.49	\$51.24	\$51.21	\$51.05	\$51.09	\$50.92	\$50.87
Subscriber Line Charges	5.68	5.68	5.55	5.52	6.02	6.16	6.17	6.10	6.57
Extra for Touch-tone	3.29	2.65	2.32	2.29	2.14	1.40	1.28	1.15	0.81
Tax including 911 Charges	7.44	7.49	7.75	7.95	7.98	7.95	8.12	8.09	8.14
Total Monthly Charge for Flat-rate Service	65.81	65.19	67.11	66.99	67.36	66.56	66.66	66.26	66.38
Number of Sample Cities with Flat-rate Service	53	56	54	54	54	53	53	53	53
Monthly Charge for Measured/Message Service	\$20.53	\$20.45	\$20.88	\$20.65	\$20.23	\$20.03	\$20.42	\$20.44	\$21.04
200 Five-minute Business-day Same-zone Calls	16.10	16.10	16.57	17.18	17.61	17.41	17.10	17.04	17.00
Subscriber Line Charges	4.89	4.85	4.76	4.68	5.27	5.34	5.52	5.47	5.62
Extra for Touch-tone	3.41	3.41	2.69	2.47	2.37	1.72	1.33	1.08	0.62
Tax including 911 Charges	5.16	5.16	5.04	5.22	5.25	5.21	5.36	5.51	5.72
Total Monthly Charge for Measured/Message Service	50.09	49.97	49.93	50.20	50.73	49.71	49.73	49.54	50.00
Number of Sample Cities with Measured/Message Service	77	74	76	76	78	79	79	78	78
Cost of a Five-minute Business-day Same-zone Call	\$0.0936	\$0.0950	\$0.0934	\$0.0956	\$0.0970	\$0.0948	\$0.0929	\$0.0927	\$0.0925
Basic Connection Charge for Three Lines	\$164.60	\$164.60	\$178.28	\$178.39	\$170.74	\$169.93	\$168.08	\$168.02	\$168.31
Additional Connection Charge for Touch-tone Service	5.51	5.51	3.22	3.39	3.48	2.75	0.67	0.67	0.67
Tax	9.20	9.20	9.65	9.61	9.02	9.01	9.84	10.05	10.99
Total Connection Charge for Three Lines	179.31	179.31	191.16	191.39	183.23	181.69	178.59	178.73	179.97
Additional Charge if Drop Line and Connection Block Needed	14.09	14.09	20.79	12.58	13.28	11.58	11.69	10.46	10.43

* Rate is based upon flat-rate service where available, and measured/message service with 200 five-minute, same-zone business-day calls elsewhere.

Table 1.19
Monthly Telephone Rates in the Sample Cities for a Business with a PBX Trunk *
(as of October 15)

State	City	1990	1991	1992	1993	1994	1995	1996	1997
Alabama	Huntsville	\$94.73	\$91.97	\$90.91	\$88.82	\$78.13	\$73.73	\$70.77	\$65.70
Alaska	Anchorage	29.61	29.61	36.01	40.80	41.12	41.13	41.13	41.13
Arizona	Tucson	50.03	58.05	58.14	58.15	58.15	60.04	60.35	61.24
Arkansas	Pine Bluff	53.25	53.30	52.78	53.43	51.55	51.24	51.61	51.64
Arkansas	West Memphis	64.41	69.10	68.51	68.57	65.61	66.02	66.39	66.54
California	Anaheim	32.54	33.98	34.32	30.09	30.09	32.15	32.51	32.71
California	Bakersfield	33.10	34.61	34.27	30.12	30.12	32.79	33.14	33.36
California	Fresno	33.84	35.43	35.09	30.94	30.94	32.79	33.14	33.36
California	Long Beach	39.26	42.44	42.22	41.24	39.77	52.29	52.16	52.16
California	Los Angeles	35.78	37.37	37.00	32.44	32.44	35.25	35.64	35.78
California	Oakland	34.32	36.18	35.83	31.71	31.71	34.48	34.85	35.01
California	Salinas	35.62	36.44	36.08	31.73	32.03	34.79	35.17	35.34
California	San Bernadino	48.73	41.67	41.64	40.68	39.23	51.57	51.45	51.45
California	San Diego	32.54	33.98	33.65	29.50	29.50	32.15	32.51	32.71
California	San Francisco	34.16	35.84	35.83	31.71	32.22	34.48	35.37	35.01
California	San Jose	34.16	35.68	35.32	30.97	30.97	33.70	34.07	34.25
Colorado	Boulder	53.59	59.02	59.38	60.65	58.23	58.52	58.50	60.53
Colorado	Colorado Springs	48.90	55.86	56.21	57.80	55.01	54.56	55.16	57.32
Colorado	Denver	53.96	59.40	59.57	60.29	58.04	58.03	57.98	60.13
Connecticut	Ansonia	39.30	40.29	40.29	47.86	47.95	49.53	49.53	49.53
Connecticut	Norwalk	42.80	44.37	43.65	44.49	44.68	46.69	46.69	46.69
District of Columbia	Washington	35.20	35.34	36.23	35.96	35.96	33.97	36.03	37.97
Florida	Miami	86.87	80.18	88.30	89.15	87.93	81.38	81.40	81.47
Florida	Tampa	79.88	80.18	81.40	52.77	52.77	65.41	71.06	71.06
Florida	West Palm Beach	82.25	80.80	81.55	82.38	81.21	75.06	76.56	76.70
Georgia	Albany	63.39	66.87	62.50	63.07	63.10	63.10	65.08	65.08
Georgia	Atlanta	79.27	84.99	84.99	84.99	85.02	93.31	93.35	94.41
Hawaii	Honolulu	60.64	61.93	61.90	65.10	66.30	69.14	71.61	76.60
Illinois	Chicago	35.31	35.34	35.01	34.85	34.84	32.83	32.63	33.31
Illinois	Decatur	42.44	42.46	42.30	38.74	38.73	36.67	36.43	37.11
Illinois	Rock Island	43.21	43.12	42.93	39.36	39.35	37.30	37.29	37.97
Indiana	Indianapolis	68.95	69.12	68.19	69.29	66.22	65.80	64.94	64.00
Indiana	Terre Haute	69.72	70.32	70.32	70.32	70.41	70.41	70.37	70.37
Iowa	Fort Dodge	35.62	36.45	36.45	37.04	37.31	37.31	37.31	37.31
Kentucky	Louisville	89.46	92.72	92.95	93.23	93.23	81.56	76.42	75.57
Louisiana	Baton Rouge	80.39	78.87	79.04	77.39	74.29	75.28	73.36	72.97
Louisiana	New Orleans	85.15	85.86	85.30	82.57	75.89	75.89	71.98	72.86
Maine	Portland	61.74	62.33	62.33	62.33	62.35	58.75	58.95	60.26
Maryland	Baltimore	44.79	45.47	47.87	46.31	46.20	46.20	46.25	46.52
Massachusetts	Boston	40.45	46.82	57.69	54.14	48.40	48.27	48.27	48.18
Massachusetts	Hyannis	49.12	48.97	66.05	72.06	72.87	73.17	73.17	75.64
Massachusetts	Springfield	38.85	40.69	42.48	54.14	48.40	44.37	44.37	44.29
Michigan	Detroit	37.83	36.09	38.08	39.66	40.39	41.18	44.26	43.42
Michigan	Grand Rapids	37.14	37.15	36.32	37.78	38.51	39.24	37.75	36.96
Michigan	Saginaw	36.95	36.95	36.12	37.61	38.33	39.87	39.93	39.11
Minnesota	Detroit Lakes	48.89	48.71	48.80	49.79	51.36	51.65	51.05	50.86
Minnesota	Minneapolis	61.67	61.55	61.64	61.67	63.24	64.93	64.32	64.14
Mississippi	Pascagoula	85.07	86.02	85.26	82.93	83.67	83.67	84.39	84.86
Missouri	Kansas City	63.68	63.37	63.19	65.22	61.15	60.77	60.96	61.00
Missouri	Mexico	45.17	44.87	44.70	46.65	43.29	48.72	48.92	49.11
Missouri	St. Louis	62.49	62.19	62.01	64.01	61.15	60.22	60.40	60.37
Montana	Butte	56.07	56.07	56.07	54.63	54.28	54.63	54.63	56.44
Nebraska	Grand Island	58.74	66.75	66.29	67.45	68.53	68.22	60.02	60.69
New Jersey	Phillipsburg	27.11	21.22	26.70	27.42	27.42	27.42	31.97	31.72
New Mexico	Alamogordo	67.06	69.68	70.04	67.32	67.71	67.90	68.07	70.26

Table 1.19
Monthly Telephone Rates in the Sample Cities for a Business with a PBX Trunk *
(as of October 15)

State	City	1990	1991	1992	1993	1994	1995	1996	1997
New York	Binghamton	50.88	56.67	54.90	55.62	55.62	52.84	52.75	50.77
New York	Buffalo	52.20	58.08	56.29	57.02	53.88	53.66	53.57	51.55
New York	Massena	51.02	56.83	55.07	55.78	52.50	52.51	52.42	50.44
New York	New York City	57.76	58.02	56.66	57.39	54.00	54.01	53.82	51.79
New York	Ogdensburg	90.62	58.43	56.61	57.35	54.20	53.98	53.89	51.86
New York	Rochester	50.60	52.34	56.65	56.22	55.91	54.17	54.17	54.17
North Carolina	Raleigh	65.42	67.05	64.49	73.62	73.41	72.75	71.69	71.66
North Carolina	Rockingham	56.11	57.77	56.14	63.77	63.56	62.77	61.71	61.68
Ohio	Canton	55.56	55.42	55.58	56.52	56.52	54.22	54.22	53.21
Ohio	Cincinnati	62.90	63.83	64.00	64.61	66.97	70.26	70.26	70.26
Ohio	Cleveland	55.56	55.42	55.58	56.52	56.52	53.19	52.16	51.15
Ohio	Columbus	55.56	55.42	55.58	56.52	56.52	53.19	52.16	51.15
Ohio	Toledo	55.56	55.42	55.58	56.52	56.52	54.22	54.22	53.21
Oregon	Corvallis	56.89	60.37	47.08	48.14	48.23	45.15	47.72	48.14
Oregon	Portland	57.17	60.67	47.46	52.11	52.24	51.65	50.52	50.64
Pennsylvania	Allentown	35.42	35.17	35.40	37.57	37.47	38.84	39.20	37.03
Pennsylvania	Ellwood City	38.09	37.84	38.07	40.30	40.20	40.20	40.20	39.76
Pennsylvania	Johnstown	55.65	57.87	56.73	57.78	42.46	42.11	42.47	42.45
Pennsylvania	New Castle	38.09	37.84	38.07	40.30	40.20	40.20	40.56	39.76
Pennsylvania	Philadelphia	30.07	29.82	30.05	32.11	32.01	32.01	28.55	31.30
Pennsylvania	Pittsburgh	30.07	29.82	30.05	32.11	32.01	33.10	33.46	31.30
Pennsylvania	Scranton	35.42	35.17	35.40	36.97	37.47	37.47	39.20	37.03
Rhode Island	Providence	47.34	46.90	48.48	51.01	50.03	51.20	50.58	50.49
South Carolina	Beaufort	66.74	69.90	67.26	67.26	67.26	66.61	66.61	66.61
Tennessee	Memphis	91.94	92.15	92.22	92.22	92.53	92.53	92.94	94.03
Tennessee	Nashville	87.86	88.42	88.50	88.21	88.51	88.51	88.51	89.60
Texas	Brownsville	47.83	45.51	44.90	46.34	44.85	47.92	48.10	48.07
Texas	Corpus Christi	48.31	46.83	48.68	50.40	48.63	48.45	48.67	49.61
Texas	Dallas	58.83	59.15	58.91	61.81	60.39	60.33	60.26	58.70
Texas	Fort Worth	53.14	50.57	53.03	54.86	53.14	53.17	53.01	51.55
Texas	Houston	65.05	65.67	65.40	67.11	65.55	65.65	64.21	65.25
Texas	San Antonio	52.73	50.18	52.65	54.09	52.76	52.61	52.38	51.94
Utah	Logan	57.83	58.07	58.36	57.26	57.69	57.98	53.34	53.71
Virginia	Richmond	114.51	114.79	114.50	118.60	119.18	119.18	115.76	115.79
Virginia	Smithfield	61.16	60.76	60.87	60.87	60.87	60.87	60.87	58.50
Washington	Everett	70.13	64.73	66.45	64.54	64.54	59.54	59.54	59.54
Washington	Seattle	59.88	57.72	58.06	60.45	54.42	55.01	54.64	54.97
West Virginia	Huntington	73.96	109.16	114.61	114.61	114.61	114.61	116.26	116.04
Wisconsin	Milwaukee	48.54	48.61	45.13	39.87	39.10	39.03	38.96	38.37
Wisconsin	Racine	48.28	48.66	45.16	40.00	40.00	40.66	40.59	40.01

* Rate is based upon flat-rate service where available, and measured/message service with 200 five-minute, same-zone business-day calls elsewhere. Rates include touch-tone, surcharges, 911 charges, and taxes.

Table 1.20
 Connection Charges for Three PBX Trunks in the Sample Cities *
 (as of October 15)

State	City	1990	1991	1992	1993	1994	1995	1996	1997
Alabama	Huntsville	\$222.24	\$233.82	\$99.23	\$99.23	\$99.23	\$99.23	\$93.00	\$93.00
Alaska	Anchorage	65.25	65.25	65.25	65.25	54.75	54.75	54.75	54.75
Arizona	Tucson	243.22	219.90	220.30	220.30	220.30	220.89	217.76	217.76
Arkansas	Pine Bluff	303.99	305.01	305.23	305.06	280.32	278.81	279.82	279.58
Arkansas	West Memphis	303.93	311.08	311.02	308.13	280.80	282.72	283.53	283.82
California	Anaheim	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54
California	Bakersfield	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54
California	Fresno	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54
California	Long Beach	186.14	208.14	209.89	209.89	200.93	209.08	229.36	229.36
California	Los Angeles	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54
California	Oakland	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54
California	Salinas	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54
California	San Bernadino	186.14	208.14	209.89	209.89	200.93	209.08	226.24	226.24
California	San Diego	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54
California	San Francisco	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54
California	San Jose	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54
Colorado	Boulder	297.98	255.98	255.98	255.98	256.58	256.82	257.42	257.42
Colorado	Colorado Springs	298.73	254.10	252.60	252.60	249.60	249.60	249.60	249.60
Colorado	Denver	300.70	257.52	257.52	257.52	257.52	257.52	257.52	257.52
Connecticut	Ansonia	180.00	190.80	190.80	190.80	190.80	206.70	206.70	206.70
Connecticut	Norwalk	180.00	190.80	190.80	190.80	190.80	206.70	206.70	206.70
District of Columbia	Washington	124.07	125.72	116.77	116.77	116.77	116.77	147.25	147.25
Florida	Miami	99.23	99.11	99.11	100.05	85.60	86.00	86.00	86.00
Florida	Tampa	61.45	107.30	107.30	159.04	159.04	159.04	149.32	149.32
Florida	West Palm Beach	99.23	99.11	99.11	100.05	85.60	85.60	85.60	85.60
Georgia	Albany	92.25	92.25	92.25	92.25	92.25	92.25	92.25	118.25
Georgia	Atlanta	92.25	92.25	92.25	92.25	92.25	92.25	92.25	118.25
Hawaii	Honolulu	105.50	105.50	105.50	105.50	105.50	105.50	114.31	117.64
Illinois	Chicago	139.08	139.11	138.18	138.18	138.18	96.17	96.17	96.17
Illinois	Decatur	138.56	138.60	138.38	138.38	138.38	96.31	96.30	96.30
Illinois	Rock Island	138.66	138.70	138.38	138.38	138.38	96.31	96.30	96.30
Indiana	Indianapolis	99.00	99.00	99.00	99.00	99.00	99.00	59.00	59.00
Indiana	Terre Haute	113.93	114.03	114.03	114.03	114.03	114.03	114.03	114.03
Iowa	Fort Dodge	50.08	45.31	45.31	45.31	45.31	45.31	45.31	45.31
Kentucky	Louisville	95.64	95.50	95.50	95.50	95.50	95.50	117.00	117.00
Louisiana	Baton Rouge	215.32	215.24	215.24	181.30	181.30	180.25	153.47	153.47
Louisiana	New Orleans	215.32	217.33	215.24	182.00	180.25	180.25	153.47	153.47
Maine	Portland	176.40	178.08	178.08	178.08	178.08	178.08	178.08	178.08
Maryland	Baltimore	134.00	134.00	134.00	201.50	201.50	201.50	201.50	201.50
Massachusetts	Boston	98.04	201.44	205.68	205.68	205.68	205.68	205.78	205.78
Massachusetts	Hyannis	98.04	201.44	205.68	205.68	205.68	205.68	205.78	205.78
Massachusetts	Springfield	98.04	201.44	205.68	205.68	205.68	205.68	205.78	205.78
Michigan	Detroit	137.34	131.04	131.04	131.04	133.56	133.56	133.56	133.56
Michigan	Grand Rapids	131.04	131.04	131.04	131.04	131.04	133.56	133.56	133.56
Michigan	Saginaw	131.04	131.04	131.04	131.04	133.56	133.56	133.56	133.56
Minnesota	Detroit Lakes	67.50	67.50	172.50	178.50	178.50	178.50	190.10	199.37
Minnesota	Minneapolis	67.50	67.50	172.50	178.50	178.50	178.50	191.00	200.30
Mississippi	Pascagoula	178.73	180.30	180.30	103.79	103.79	103.79	103.79	103.79
Missouri	Kansas City	211.65	211.65	211.65	211.65	212.33	184.32	184.32	184.51
Missouri	Mexico	205.65	205.65	205.65	205.65	205.65	179.09	179.09	179.87
Missouri	St. Louis	210.30	210.30	210.30	210.30	212.33	184.90	184.90	184.90
Montana	Butte	226.80	226.80	226.80	217.80	217.95	217.80	217.80	217.80
Nebraska	Grand Island	125.08	125.08	128.62	179.85	179.85	179.85	147.39	147.39
New Jersey	Phillipsburg	122.50	122.50	122.50	122.50	122.50	122.50	123.69	123.69
New Mexico	Alamogordo	265.53	262.35	262.81	305.83	284.38	284.40	283.52	283.52

Table 1.20
 Connection Charges for Three PBX Trunks in the Sample Cities *
 (as of October 15)

State	City	1990	1991	1992	1993	1994	1995	1996	1997
New York	Binghamton	310.67	311.35	308.15	234.20	234.08	235.05	234.60	234.16
New York	Buffalo	316.43	319.78	316.56	240.59	240.36	239.25	238.81	238.36
New York	Massena	311.67	312.39	309.19	234.99	234.77	233.66	233.22	232.78
New York	New York City	320.80	321.74	318.80	242.29	242.07	240.95	239.97	239.52
New York	Ogdensburg	320.43	321.16	317.88	241.59	241.36	240.23	239.78	239.32
New York	Rochester	71.71	107.51	107.62	105.52	105.37	101.41	101.41	101.41
North Carolina	Raleigh	105.00	108.15	108.15	108.15	108.15	108.15	108.15	112.27
North Carolina	Rockingham	105.00	108.15	108.15	108.15	108.15	108.15	108.15	112.27
Ohio	Canton	175.95	175.95	175.95	175.95	175.95	148.05	148.05	148.05
Ohio	Cincinnati	162.00	162.00	162.00	162.00	167.34	149.34	149.34	149.34
Ohio	Cleveland	175.95	175.95	175.95	175.95	175.95	148.05	148.05	148.05
Ohio	Columbus	175.95	175.95	175.95	175.95	175.95	148.05	148.05	148.05
Ohio	Toledo	175.95	175.95	175.95	175.95	175.95	148.05	148.05	148.05
Oregon	Corvallis	93.00	93.00	93.00	93.00	93.00	117.00	120.51	120.51
Oregon	Portland	93.46	93.00	93.00	93.00	93.00	117.00	117.00	120.51
Pennsylvania	Allentown	238.50	238.50	238.50	238.50	238.50	238.50	238.50	238.50
Pennsylvania	Ellwood City	238.50	238.50	238.50	238.50	238.50	238.50	238.50	238.50
Pennsylvania	Johnstown	131.44	136.22	120.23	121.37	121.20	121.20	121.19	121.19
Pennsylvania	New Castle	238.50	238.50	238.50	238.50	238.50	238.50	238.50	238.50
Pennsylvania	Philadelphia	238.50	238.50	238.50	238.50	238.50	238.50	238.50	238.50
Pennsylvania	Pittsburgh	238.50	238.50	238.50	238.50	238.50	238.50	238.50	238.50
Pennsylvania	Scranton	238.50	238.50	238.50	238.50	238.50	238.50	238.50	238.50
Rhode Island	Providence	116.51	116.51	117.10	117.10	139.49	139.49	139.49	139.49
South Carolina	Beaufort	64.60	64.60	64.60	64.60	64.60	64.60	64.60	64.60
Tennessee	Memphis	136.04	137.60	137.60	137.60	137.60	137.60	138.26	138.26
Tennessee	Nashville	130.02	131.04	131.04	131.04	131.04	131.04	131.04	131.04
Texas	Brownsville	134.43	124.75	123.57	123.57	115.77	123.71	123.71	123.69
Texas	Corpus Christi	136.55	127.51	133.04	133.63	124.53	124.23	124.33	126.79
Texas	Dallas	138.27	135.40	134.94	135.46	127.14	127.13	126.61	123.39
Texas	Fort Worth	137.04	127.18	133.84	134.55	125.67	125.88	125.05	121.68
Texas	Houston	137.71	135.52	135.34	135.66	127.11	127.17	124.03	126.08
Texas	San Antonio	135.72	125.96	132.63	132.39	124.51	124.32	123.32	123.32
Utah	Logan	255.99	204.00	204.00	204.00	203.75	203.76	203.76	203.52
Virginia	Richmond	117.60	117.60	117.60	117.60	117.60	117.60	117.60	117.60
Virginia	Smithfield	51.25	51.25	51.25	51.25	51.25	51.25	51.25	51.25
Washington	Everett	166.92	174.49	178.53	158.61	158.61	178.04	107.36	107.36
Washington	Seattle	168.99	168.07	167.18	166.28	165.75	203.74	203.74	204.49
West Virginia	Huntington	168.70	168.70	168.70	168.70	168.70	168.70	168.70	168.70
Wisconsin	Milwaukee	117.23	111.78	111.78	111.78	111.78	111.78	111.88	111.88
Wisconsin	Racine	117.23	111.78	111.78	111.78	111.78	111.25	111.35	111.35

* Charges include touch-tone charges, surcharges, and taxes.

B. Rates in Rural Areas

The Rural Utilities Service (RUS), formerly the Rural Electrification Administration, is an agency of the U.S. Department of Agriculture. RUS, through its telecommunications lending program, finances the construction of telecommunications infrastructure in rural America. In performing its loan monitoring and servicing functions, it collects information about the telephone companies that are its borrowers. Included in the information collected are the rates RUS borrowers charge business and residential customers. Table 1.21 shows the average rates charged by RUS borrowers by state in 1996 as well as the percent of access lines in the state served by RUS borrowers. Table 1.22 presents the national average rates of RUS borrowers from 1994 through 1996. The national average was \$11.17 for a residential line and \$21.41 for a business line. These rates do not include subscriber line charges, surcharges, 911 charges, or taxes. In addition, they do not include any charges that may be imposed on customers that are more than a certain distance from the telephone company's central office. These mileage charges can be substantial.

Tables 1.23 and 1.24 break out average rates based upon the size of the RUS borrower. While the size of the telephone company, regardless of whether it is measured by number of lines or number of exchanges, seems to have little impact on residential rates, larger companies appear to charge slightly higher rates to businesses.

Table 1.21
Average Monthly Rates* for RUS Borrowers by State in 1996

State	Average Single-line Business Rate	Average Residential Rate	Percentage of State's Access Lines
Alabama	\$29.58	\$14.73	7.08%
Alaska	\$24.27	\$14.02	32.43%
Arizona	\$20.93	\$9.43	3.60%
Arkansas	\$22.82	\$10.01	14.22%
California	\$29.10	\$16.83	0.32%
Colorado	\$22.72	\$14.80	1.23%
Florida	\$26.16	\$10.21	0.98%
Georgia	\$23.23	\$12.49	8.78%
Idaho	\$18.93	\$11.15	3.08%
Illinois	\$13.22	\$9.44	0.65%
Indiana	\$20.19	\$12.74	3.02%
Iowa	\$11.14	\$8.66	6.00%
Kansas	\$11.03	\$7.48	5.11%
Kentucky	\$17.19	\$10.98	8.37%
Louisiana	\$28.07	\$14.93	5.51%
Maine	\$16.33	\$10.12	5.16%
Maryland	\$9.00	\$6.00	0.17%
Massachusetts	\$23.28	\$12.21	0.06%
Michigan	\$14.09	\$8.09	1.95%
Minnesota	\$18.04	\$10.95	12.80%
Mississippi	\$23.16	\$14.18	6.04%
Missouri	\$12.97	\$7.57	15.53%
Montana	\$21.52	\$10.87	14.23%
Nebraska	\$16.67	\$9.88	8.18%
Nevada	\$14.72	\$10.68	0.89%
New Hampshire	\$16.81	\$7.93	3.31%
New Jersey	\$15.50	\$7.80	3.12%
New Mexico	\$21.04	\$13.83	3.85%
New York	\$18.18	\$10.05	1.15%
North Carolina	\$26.97	\$11.58	7.82%
North Dakota	\$15.71	\$10.19	15.17%
Ohio	\$25.71	\$15.89	0.34%
Oklahoma	\$18.16	\$11.66	7.79%
Oregon	\$16.16	\$10.36	5.08%
Pennsylvania	\$18.67	\$10.64	4.04%
South Carolina	\$22.53	\$11.21	15.07%
South Dakota	\$16.30	\$9.63	15.17%
Tennessee	\$26.19	\$11.43	9.32%
Texas	\$26.28	\$10.35	3.89%
Utah	\$20.82	\$10.53	2.44%
Vermont	\$26.20	\$13.73	4.12%
Virginia	\$18.74	\$10.72	1.54%
Washington	\$24.20	\$14.83	1.37%
West Virginia	\$53.26	\$21.04	3.78%
Wisconsin	\$20.00	\$11.37	13.23%
Wyoming	\$17.77	\$11.34	6.21%
National Average	\$21.41	\$11.17	3.83%

* Average rates do not include subscriber line charges, surcharges, 911 charges, or taxes.

Table 1.22
Average Monthly Local Rates of RUS Borrowers, 1994 - 1996

Year	Average Business Rate	Average Residential Rate	Percentage of US Access Lines
1994	\$20.88	\$11.05	5.03%
1995	\$20.84	\$10.94	3.79%
1996	\$21.41	\$11.17	3.83%

* Average rates do not include subscriber line charges, surcharges, 911 charges, or taxes.

Table 1.23
Average Monthly Rates for RUS Borrowers by the Number of Lines Served, 1996

Number of Lines	Average Business Rate *	Average Residential Rate *	% of RUS Borrower Lines	% of RUS Borrower Exchanges	Number of RUS Borrowers	% of RUS Borrowers
1 - 400	\$17.15	\$12.92	0.1%	0.6%	25	3.1%
401 - 1,000	\$15.33	\$11.02	1.5%	4.5%	117	14.5%
1,001 - 2,000	\$17.00	\$10.89	4.9%	10.6%	182	22.5%
2,001 - 4,000	\$18.39	\$11.25	9.5%	17.9%	180	22.3%
4,001 - 8,000	\$18.44	\$10.50	16.4%	23.3%	158	19.6%
8,001 - 12,000	\$19.63	\$11.36	11.2%	11.5%	62	7.7%
12,001 - 20,000	\$22.45	\$11.75	11.2%	10.9%	39	4.8%
20,001 - 30,000	\$21.47	\$10.82	9.7%	6.9%	21	2.6%
more than 30,000	\$23.89	\$11.76	35.5%	13.9%	25	3.1%
all borrowers	\$21.41	\$11.17	100.0%	100.0%	809	100.0%

* Average rates do not include subscriber line charges, surcharges, 911 charges, or taxes.

Table 1.24
Average Monthly Rates for RUS Borrowers by the Number of Exchanges Served, 1996

Number of Exchanges	Average Business Rate *	Average Residential Rate *	% of RUS Borrower Lines	% of RUS Borrower Exchanges	Number of RUS Borrowers	% of RUS Borrowers
1	\$17.60	\$11.21	6.7%	4.6%	213	26.4%
2	\$17.60	\$11.03	5.0%	4.9%	114	14.1%
3 - 5	\$18.64	\$11.31	18.4%	17.3%	216	26.7%
6 - 10	\$18.02	\$10.86	21.4%	25.3%	156	19.3%
11 - 15	\$17.89	\$10.27	17.5%	15.0%	55	6.8%
16 - 20	\$17.70	\$10.87	5.2%	9.1%	24	3.0%
21 - 30	\$21.29	\$11.24	6.8%	9.0%	17	2.1%
31 - 40	\$23.98	\$12.06	4.4%	3.0%	4	0.5%
more than 40	\$22.08	\$11.80	14.7%	11.9%	10	1.2%
all borrowers	\$21.41	\$11.17	100.0%	100.0%	809	100.0%

* Average rates do not include subscriber line charges, surcharges, 911 charges, or taxes.

C. Additional Sources of Information on Local Rates

The raw data from the Industry Analysis Division's Urban Rates Survey is available on the FCC-State Link at www.fcc.gov/ccb/stats on the Internet.

The Rural Utilities Service publishes Statistical Report Rural Telecommunications Borrowers, that provides aggregate and individual data on RUS borrowers. More information can be found at www.usda.gov/rus/ on the Internet.

The National Association of Regulatory Utility Commissioners (NARUC) publishes Bell Operating Companies Exchange Service Telephone Rates, that contains basic monthly charges and connection fees for residential and business customers served by Ameritech, Bell Atlantic, BellSouth, Cincinnati Bell, SBC, Southern New England Telecommunications, and US West. More information can be found at www.naruc.org on the Internet.

A few states have begun to place exchange service tariffs on the internet. The NARUC web site mentioned previously has links to the web sites of all of the state telecommunications regulatory agencies.

The Bureau of Labor Statistics, part of the U.S. Department of Labor, publishes a number of price indices that follow trends in local telephone rates. Part IV of this report reviews these indices. The most current figures can be obtained at stats.bls.gov on the Internet.

II. Toll Rates

For local service, posted rates provide an accurate picture of prices paid by end-users. However, in the long distance market, there are a wide variety of rates for identical services. Residential customers can choose from a variety of discount programs, while many businesses sign contracts with long distance carriers rather than purchasing at the posted rates. Consequently, posted rates do not necessarily reflect the prices actually paid in the long distance market. An alternative is provided by price indices constructed by the Bureau of Labor Statistics. Those indices are presented in section IV.

A. Residential Rates

Tables 2.1 through 2.3 present the basic schedule rates of AT&T, MCI, and Sprint since 1980. The basic schedule rates are those charged to consumers who do not make arrangements to be included in a particular calling plan.

Prior to 1992, residential customers were limited to basic schedule rates. However, since then a number of discount and promotional calling plans have been introduced by long distance carriers. These plans take a number of forms. Some plans offer a block of calling time for a fixed fee and reduced per minute rates for additional calling. Others give volume discounts or discounts for calls to certain phone numbers or area codes. A recent trend has been the introduction of flat-rate calling plans. These plans have eliminated the mileage bands associated with the traditional basic schedules. Depending on the plan, rates may vary by the time of day, and some plans offer reduced rates with the payment of monthly fixed fees.

Many customers, especially those with a limited number of long distance calls, continue to pay the basic schedule rates. Most calls, however, are made by callers who have selected discount plans. Consequently, the proliferation of calling plans has made it difficult to talk about a single rate for long distance calling. To cut through the myriad plans and promotions, the Industry Analysis Division calculates the "best available rate" offered by AT&T. Using the actual calling behavior of consumers, it is possible to select the calling plan that offers a consumer the lowest per minute rate. Note that, since the calling behavior of individual consumers varies significantly, the best plan for one consumer may not be the best for another. Table 2.4 shows the "best available rates" a price-sensitive consumer could expect to receive from an AT&T calling plan. Taking advantage of temporary promotions and introductory offers can lower rates even further.

Table 2.5 provides a historical picture of AT&T's long distance rates. Although competitors began providing service in the 1970's, AT&T retained 90% of the long distance market at the time of divestiture in 1984. The table shows the date each AT&T tariff became effective, and the day, evening, and night rates for 10 minute calls for nine specific distances. Over the years, AT&T has had a number of mileage bands. These nine mileages represent the midpoints of the rate bands under 3000 miles that were in use in AT&T's last mileage-based basic schedule tariff, which was eliminated in November of 1997.

Through 1969, the table shows rates for station-to-station calls regardless of whether the call was directly dialed by the customer or placed by an operator since the caller paid the same rate in either case. Thereafter, the table shows rates for customer dialed calls. AT&T first offered discounts for directly dialing interstate calls in 1970. However, customers were already directly dialing a majority of toll calls then. Both business and residential customers paid these rates through June 1993. Thereafter, AT&T tariffed business rates separately.

The December 1927 rate schedule established day rates for calls placed between 4:30 am and 7:00 pm, evening rates for calls placed between 7:00 pm and 8:30 pm, and night rates for calls placed between 8:30 pm and 4:30 am. The discount periods changed considerably over time. AT&T combined the evening and night periods in 1935. In 1963, AT&T reintroduced an evening rate period of 6:00 pm to 9:00 pm. AT&T did not offer discounts on daytime Saturday calls until 1965. Some subsequent schedules had two discount periods in the evening hours as well as a night rate period. The March 1975 tariff initiated the day, evening, and night periods now in use and instituted fixed percentage discounts -- 35% for evening calls and 60% for night calls. AT&T stopped using percentage discounts in 1989 and now publishes separate day, evening, and night rates.

AT&T's basic schedule provides separate rates for the initial period and for additional minutes. The initial period is currently a minute, and the charge is currently the same as the charge for additional minutes. Prior to 1975, however, customers were billed for minimum call lengths of 3 or more minutes even if the call lasted only a few seconds. In some cases, additional period rates covered 2 or more minutes. Furthermore, before 1990, the per minute initial period rate usually exceeded the rate for additional minutes. The difference between the rate for the initial period and the subsequent periods has varied dramatically over time.

Table 2.1
 Basic Schedule Rates of AT&T, MCI, and Sprint for Residential Customers as of December 31
 10-minute Day Call

	Residence Day Rates for 10 Minute calls																											
	5 Mile Call			16 Mile Call			39 Mile Call			90 Mile Call			200 Mile Call			334 Mile Call			678 Mile Call			1418 Mile Call			2455 Mile Call			
	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	
1980	\$1.01			\$1.41			\$2.35			\$3.15	\$2.37	\$2.30	\$3.54	\$2.58	\$2.50	\$3.74	\$2.81	\$2.70	\$3.77	\$3.22	\$2.90	\$3.97	\$3.61	\$3.20	\$4.17	\$3.82	\$3.30	
1981	1.13			1.63			2.77			3.67	3.07	2.67	4.07	3.39	2.90	4.36	3.62	3.13	4.39	3.66	3.36	4.60	3.84	3.71	4.80	4.00	3.83	
1982	1.76	\$1.53	\$1.53	2.38	\$1.54	\$1.55	3.00	\$1.94	\$1.92	3.90	3.28	3.27	4.09	3.42	3.43	4.37	3.63	3.62	4.49	3.74	3.74	4.60	3.84	3.83	5.15	4.32	4.32	
1983	1.76	1.54	1.54	2.38	2.10	2.09	3.00	2.70	2.69	3.90	3.28	3.29	4.09	3.42	3.43	4.37	3.63	3.62	4.49	3.74	3.74	4.60	3.84	3.83	5.15	4.32	4.32	
1984	1.65	1.48	1.62	2.27	1.96	2.19	2.79	2.56	2.76	3.69	3.33	3.49	3.87	3.48	3.63	4.06	3.72	3.80	4.18	3.84	3.98	4.29	3.96	4.06	4.83	4.47	4.67	
1985	1.98	1.80	1.70	2.59	2.33	2.00	3.00	2.82	2.20	3.48	3.29	3.34	3.66	3.48	3.45	3.85	3.72	3.63	3.97	3.84	3.70	4.07	3.96	3.80	4.43	4.28	4.10	
1986	1.75	1.67	1.61	2.26	2.12	2.11	2.57	2.47	2.46	2.95	2.85	2.84	3.14	3.04	3.03	3.33	3.25	3.24	3.44	3.35	3.34	3.54	3.46	3.45	3.79	3.68	3.67	
1987	1.48	1.45	1.46	1.89	1.85	1.86	2.09	2.04	2.06	2.38	2.32	2.34	2.56	2.51	2.52	2.75	2.70	2.70	2.95	2.90	2.92	2.96	2.91	2.93	3.08	3.04	3.04	
1988	1.47	1.44	1.44	1.78	1.75	1.76	1.98	1.94	1.94	2.16	2.12	2.13	2.34	2.40	2.40	2.43	2.50	2.50	2.64	2.69	2.71	2.64	2.71	2.73	2.75	2.84	2.84	
1989	1.71	1.70	1.70	2.01	2.00	2.00	2.21	2.15	2.20	2.21	2.15	2.20	2.30	2.15	2.25	2.31	2.15	2.30	2.40	2.35	2.35	2.50	2.45	2.45	2.50	2.45	2.45	
1990	1.71	1.70	1.71	1.97	1.90	1.90	1.97	1.90	1.90	2.15	2.10	2.10	2.15	2.10	2.10	2.30	2.10	2.30	2.39	2.30	2.30	2.49	2.40	2.40	2.49	2.40	2.40	
1991	1.70	1.70	1.71	1.80	1.80	1.80	1.90	1.90	1.90	2.10	2.10	2.10	2.10	2.10	2.10	2.30	2.30	2.30	2.30	2.30	2.30	2.44	2.40	2.40	2.45	2.40	2.40	
1992	2.00	1.99	2.00	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.10	2.10	2.30	2.29	2.30	2.30	2.30	2.30	2.40	2.39	2.40	2.50	2.50	2.40	
1993	2.20	2.20	2.20	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.30	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.40	2.50	2.50	2.50	2.50	2.50	2.50	2.50
1994	2.40	2.40	2.40	2.40	2.40	2.40	2.50	2.50	2.50	2.60	2.60	2.60	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.80	2.80	2.80	
1995	2.40	2.40	2.40	2.40	2.40	2.40	2.50	2.50	2.50	2.60	2.60	2.60	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.70	2.80	2.80	2.80	
1996	2.60	2.60	2.60	2.80	2.70	2.70	2.80	2.80	2.80	2.80	2.80	2.80	2.90	2.80	2.90	3.00	2.90	2.90	3.00	2.90	3.00	3.00	2.90	3.00	3.10	3.10	3.10	
1997	2.80	2.60	2.60	2.80	2.60	2.80	2.80	2.60	2.80	2.80	2.60	2.80	2.80	2.90	2.90	2.80	2.90	3.00	2.80	2.90	3.00	2.80	2.90	3.00	2.80	2.90	3.10	
	Percent Changes from 1987 to 1997																											
	89%	79%	79%	48%	40%	51%	34%	27%	36%	18%	12%	20%	9%	15%	15%	2%	7%	11%	-5%	-0%	3%	-5%	-0%	2%	-9%	-5%	2%	

Table 2.2
Basic Schedule Rates of AT&T, MCI, and Sprint for Residential Customers as of December 31
10-minute Evening Call

	Residence Evening Rates for 10 Minute calls																										
	5 Mile Call			16 Mile Call			39 Mile Call			90 Mile Call			200 Mile Call			334 Mile Call			678 Mile Call			1418 Mile Call			2455 Mile Call		
	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint
1980	\$0.65			\$0.91			\$1.52			\$2.04	\$0.71	\$0.92	\$2.30	\$0.77	\$1.00	\$2.43	\$0.84	\$1.08	\$2.45	\$0.97	\$1.16	\$2.58	\$1.08	\$1.28	\$2.71	\$1.15	\$1.32
1981	0.73			1.05			1.80			2.38	1.41	1.07	2.64	1.57	1.16	2.83	1.68	1.25	2.85	1.69	1.35	2.98	1.77	1.48	3.11	1.85	1.53
1982	1.05	\$0.65	\$0.61	1.42	\$0.89	\$0.84	1.80	\$1.12	\$1.05	2.33	1.46	1.39	2.45	1.45	1.44	2.62	1.65	1.54	2.69	1.69	1.60	2.76	1.73	1.63	3.09	1.93	1.82
1983	1.05	0.92	0.89	1.42	1.26	1.19	1.80	1.39	1.30	2.33	1.61	1.59	2.45	1.70	1.68	2.62	1.81	1.72	2.69	1.86	1.80	2.76	1.91	1.82	3.09	2.13	1.99
1984	0.99	0.90	0.97	1.36	1.21	1.31	1.67	1.55	1.65	2.21	2.05	2.09	2.32	2.19	2.23	2.43	2.25	2.33	2.50	2.40	2.43	2.57	2.47	2.49	2.89	2.73	2.69
1985	1.18	1.10	1.12	1.55	1.44	1.32	1.80	1.71	1.45	2.08	1.98	2.05	2.19	2.09	2.13	2.31	2.14	2.25	2.38	2.32	2.30	2.44	2.40	2.36	2.65	2.59	2.56
1986	1.05	0.99	0.98	1.35	1.29	1.28	1.54	1.48	1.46	1.77	1.70	1.68	1.88	1.80	1.79	1.99	1.91	1.90	2.06	2.03	2.02	2.12	2.09	2.08	2.27	2.24	2.23
1987	0.91	0.86	0.90	1.17	1.10	1.16	1.29	1.25	1.28	1.47	1.43	1.45	1.58	1.44	1.56	1.70	1.45	1.68	1.82	1.80	1.81	1.83	1.81	1.82	1.90	1.89	1.89
1988	0.98	0.86	0.90	1.19	1.08	1.15	1.32	1.24	1.28	1.44	1.37	1.40	1.56	1.44	1.56	1.62	1.44	1.63	1.76	1.75	1.77	1.76	1.77	1.78	1.84	1.85	1.86
1989	1.14	1.12	1.12	1.34	1.31	1.32	1.48	0.92	1.45	1.48	1.45	1.45	1.54	1.45	1.45	1.54	1.52	1.52	1.60	1.55	1.55	1.67	1.55	1.55	1.67	1.55	1.55
1990	1.14	1.12	1.12	1.34	1.30	1.30	1.45	1.38	1.40	1.45	1.38	1.40	1.45	1.38	1.40	1.45	1.40	1.40	1.49	1.40	1.40	1.49	1.40	1.40	1.49	1.40	1.40
1991	1.11	1.10	1.11	1.30	1.30	1.30	1.30	1.30	1.30	1.45	1.35	1.40	1.45	1.35	1.40	1.45	1.35	1.40	1.49	1.40	1.40	1.79	1.40	1.40	1.49	1.40	1.40
1992	1.30	1.30	1.30	1.40	1.34	1.40	1.40	1.34	1.40	1.40	1.34	1.40	1.40	1.35	1.40	1.40	1.35	1.40	1.40	1.40	1.40	1.50	1.48	1.50	1.50	1.48	1.50
1993	1.20	1.20	1.20	1.30	1.30	1.30	1.30	1.30	1.30	1.40	1.40	1.40	1.50	1.48	1.50	1.50	1.48	1.50	1.50	1.48	1.50	1.50	1.49	1.50	1.50	1.49	1.50
1994	1.40	1.40	1.40	1.40	1.40	1.40	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
1995	1.40	1.40	1.40	1.40	1.40	1.40	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70
1996	1.40	1.40	1.40	1.60	1.60	1.60	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.70	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90	1.90
1997	1.60	1.30	1.40	1.60	1.30	1.60	1.60	1.30	1.70	1.60	1.30	1.70	1.60	1.80	1.70	1.60	1.80	1.90	1.60	1.80	1.90	1.60	1.80	1.90	1.60	1.80	1.90
	Percent Changes from 1987 to 1997																										
	76%	51%	55%	37%	18%	38%	24%	4%	33%	9%	-9%	17%	1%	25%	9%	-6%	24%	13%	-12%	-0%	5%	-13%	-1%	4%	-16%	-5%	1%

Table 2.3
Basic Schedule Rates of AT&T, MCI, and Sprint for Residential Customers as of December 31
10-minute Night Call

	Residence Night Rates for 10 Minute calls																										
	5 Mile Call			16 Mile Call			39 Mile Call			90 Mile Call			200 Mile Call			334 Mile Call			678 Mile Call			1418 Mile Call			2455 Mile Call		
	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint
1980	\$0.40			\$0.56			\$0.94			\$1.26	\$0.71	\$0.92	\$1.46	\$0.77	\$1.00	\$1.49	\$0.84	\$1.08	\$1.50	\$0.97	\$1.16	\$1.58	\$1.08	\$1.28	\$1.66	\$1.15	\$1.32
1981	0.45			0.65			1.10			1.46	1.01	1.07	1.62	1.12	1.16	1.74	1.21	1.25	1.75	1.21	1.35	1.84	1.27	1.48	1.92	1.33	1.53
1982	0.70	\$0.51	\$0.36	0.95	\$0.69	\$0.50	1.20	\$0.87	\$0.80	1.56	1.14	1.00	1.63	1.20	1.19	1.74	1.28	1.20	1.79	1.31	1.27	1.84	1.35	1.29	2.06	1.50	1.31
1983	0.70	0.61	0.59	0.95	0.84	0.79	1.20	1.08	0.99	1.56	1.25	1.20	1.63	1.32	1.30	1.74	1.41	1.33	1.67	1.45	1.40	1.84	1.48	1.48	2.06	1.66	1.56
1984	0.66	0.60	0.64	0.90	0.81	0.86	1.11	1.02	1.07	1.47	1.34	1.36	1.54	1.44	0.15	1.62	1.50	1.58	1.58	1.60	1.61	1.71	1.63	1.64	1.93	1.82	1.81
1985	0.79	0.73	0.92	1.03	0.96	1.05	1.20	1.14	1.15	1.39	1.32	1.36	1.46	1.39	1.45	1.54	1.44	1.52	1.51	1.55	1.56	1.62	1.60	1.59	1.77	1.71	1.73
1986	0.77	0.72	0.62	0.99	0.93	0.93	1.13	1.07	1.06	1.29	1.23	1.22	1.38	1.31	1.30	1.46	1.34	1.33	1.38	1.48	1.57	1.55	1.54	1.52	1.66	1.62	1.61
1987	0.69	0.67	0.68	0.88	0.87	0.86	0.98	0.95	0.95	1.11	1.09	1.04	1.20	1.18	1.04	1.29	1.27	1.05	1.26	1.37	1.37	1.39	1.37	1.38	1.44	1.42	1.43
1988	0.70	0.66	0.68	0.85	0.86	0.86	0.95	0.95	0.95	1.03	1.06	1.04	1.12	1.17	1.04	1.16	1.25	1.05	1.26	1.35	1.36	1.26	1.36	1.36	1.32	1.41	1.42
1989	0.97	0.92	0.85	1.10	1.05	0.95	1.20	1.15	1.05	1.20	1.15	1.15	1.21	1.15	1.15	1.22	1.15	1.15	1.26	1.22	1.22	1.30	1.25	1.25	1.32	1.25	1.25
1990	0.97	0.92	0.95	1.10	1.05	1.10	1.20	1.15	1.20	1.20	1.15	1.20	1.21	1.15	1.20	1.22	1.15	1.20	1.26	1.22	1.25	1.30	1.25	1.30	1.32	1.25	1.30
1991	1.05	1.00	1.00	1.13	1.10	1.10	1.20	1.20	1.20	1.20	1.20	1.20	1.22	1.20	1.20	1.25	1.20	1.20	1.30	1.30	1.30	1.33	1.30	1.30	1.35	1.30	1.30
1992	1.10	1.09	1.10	1.20	1.17	1.20	1.20	1.17	1.20	1.20	1.20	1.20	1.30	1.18	1.30	1.30	1.25	1.30	1.30	1.25	1.30	1.30	1.25	1.35	1.30	1.25	1.30
1993	1.10	1.10	1.10	1.20	1.17	1.20	1.20	1.17	1.20	1.20	1.17	1.20	1.30	1.18	1.30	1.30	1.29	1.30	1.30	1.29	1.30	1.30	1.29	1.30	1.30	1.29	1.30
1994	1.20	1.20	1.20	1.30	1.30	1.30	1.30	1.30	1.30	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.50	1.50	1.50
1995	1.20	1.20	1.20	1.30	1.30	1.30	1.30	1.30	1.30	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.40	1.50	1.50	1.50
1996	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60	1.60
1997	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.50	1.30	1.80	1.50	1.30	1.80	1.50	1.30	1.80	1.60	1.30	1.80	1.60	1.30	1.80	1.60
	Percent Changes from 1987 to 1997																										
	88%	95%	91%	48%	50%	51%	33%	36%	37%	17%	19%	44%	8%	52%	44%	1%	42%	43%	3%	31%	17%	-6%	31%	16%	-10%	27%	12%

Table 2.4
Average Charge per Billed Minute for Price-sensitive Residential Callers
(based upon AT&T's basic schedule and permanent optional calling plans and promotions)

	Monthly Interstate InterLATA Calling Volumes					
	30 minutes or less	50 to 70 minutes	110 to 130 minutes	270 to 330 minutes	500 minutes or more	all 5 calling volumes
Sample Size	2,050 households	550 households	264 households	123 households	94 households	3,081 households
January 1991	\$0.1685	\$0.1531	\$0.1463	\$0.1445	\$0.1426	\$0.1621
January 1992	0.1661	0.1512	0.1424	0.1375	0.1343	0.1593
January 1993	0.1667	0.1434	0.1298	0.1231	0.1216	0.1562
January 1994	0.1719	0.1380	0.1219	0.1195	0.1196	0.1579
January 1995	0.1844	0.1420	0.1243	0.1203	0.1199	0.1671
February 1996	0.1909	0.1454	0.1331	0.1211	0.1041	0.1724
February 1997	0.1498	0.1388	0.1256	0.1205	0.1138	0.1435
October 1997	0.1284	0.1232	0.1180	0.1111	0.1037	0.1251
December 1997	0.1284	0.1233	0.1182	0.1115	0.1061	0.1253
February 1998	0.1284	0.1233	0.1182	0.1115	0.1061	0.1253
April 1998	0.1901	0.1386	0.1257	0.1146	0.1076	0.1698

Calculations:

AT&T residential tariffs are used to determine the lowest cost calling plan for each of 3,081 households that made at least one call during the survey month. The actual interstate inter-LATA direct-dialed calls on the households' phone bills are used, so that the program is able to determine the lowest available rates for actual calling patterns, rather than some hypothesized calling pattern. As a whole, the households made over 20,000 calls. All calling plans accepting new customers, including the basic schedule, are evaluated, with the exception that those calling plans that have a pre-determined date after which the rates will not be available. Nine calling plans met these requirements in April of 1998. In addition to charges levied per calling minute, all calculations include any fixed fees that AT&T would normally charge a customer with a single residential line. The average charge for each of the calling volumes (e.g. 30 minutes or less) is calculated by equally weighting each caller's average charge per billed minute. Thus, the averages reflect the rates that an average caller would pay. An alternative method would weight each callers' average charge per billed minute by the number of calling minutes. This would reflect the charge for an average minute and yield a lower average charge per billed minute even though most callers would pay higher charges. This occurs because households making 30 minutes or less in calls comprise 67% of the sample households, but only 13% of the calling minutes. Similarly, households making 500 or more minutes of calls comprise 3% of the sample households and 34% of the calling minutes.

Sources:

Phone bills from 3,081 households selected from Bill Harvesting III, PNR Associates, Jenkinstown, Pennsylvania
AT&T rates from AT&T tariffs and AT&T tariff summaries in "Dr. Bob's Long Distance for Less," Market Dynamics, Bethesda, Maryland

Table 2.5
AT&T Basic Schedule Residential Rates for 10-minute Interstate Inter-LATA Calls

Effective Date of Tariff	5 Mile Call			16 Mile Call			39 Mile Call			90 Mile Call			200 Mile Call			334 Mile Call			678 Mile Call			1418 Mile Call			2455 Mile Call		
	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night	Day	Even	Night
December 1, 1927	\$0.20	\$0.20	\$0.20	\$0.30	\$0.30	\$0.30	\$1.05	\$1.05	\$1.05	\$2.05	\$1.55	\$1.05	\$4.00	\$3.00	\$2.00	\$5.60	\$4.10	\$3.00	\$10.00	\$7.50	\$5.00	\$17.50	\$13.00	\$10.00	\$27.75	\$22.50	\$15.50
February 1, 1929	0.20	0.20	0.20	0.30	0.30	0.30	1.05	1.05	1.05	2.05	1.55	1.05	3.60	3.00	2.00	5.05	4.10	3.00	9.05	7.50	5.00	15.50	13.00	10.00	27.75	22.50	15.50
January 1, 1930	0.20	0.20	0.20	0.30	0.30	0.30	1.05	1.05	1.05	2.00	1.55	1.05	3.50	3.00	2.00	5.05	4.10	3.00	9.05	7.50	5.00	15.50	13.00	10.00	27.75	22.50	15.50
June 1, 1935	0.20	0.20	0.20	0.35	0.35	0.35	1.05	1.05	1.05	2.00	1.05	1.05	3.50	2.00	2.00	5.05	3.00	3.00	9.05	5.00	5.00	15.50	10.00	10.00	27.75	15.50	15.50
January 15, 1936	0.20	0.20	0.20	0.35	0.35	0.35	1.05	1.05	1.05	2.00	1.05	1.05	3.50	2.00	2.00	5.05	3.00	3.00	9.05	5.00	5.00	15.50	10.00	10.00	27.25	15.50	15.50
September 1, 1936	0.20	0.20	0.20	0.35	0.35	0.35	1.05	1.05	1.05	1.55	1.05	1.05	3.50	2.00	2.00	4.55	2.60	2.60	8.00	4.60	4.60	15.00	9.05	9.05	23.00	15.00	15.00
January 15, 1937	0.20	0.20	0.20	0.35	0.35	0.35	1.05	1.05	1.05	1.55	1.05	1.05	2.55	1.55	1.55	3.60	2.10	2.10	6.55	4.00	4.00	12.75	8.10	8.10	23.00	14.95	14.95
May 1, 1940	0.20	0.20	0.20	0.35	0.35	0.35	1.05	1.05	1.05	1.55	1.05	1.05	2.55	1.55	1.55	3.60	2.10	2.10	6.00	4.00	4.00	10.00	6.55	6.55	13.10	10.00	10.00
July 10, 1941	0.20	0.20	0.20	0.35	0.35	0.35	1.05	1.05	1.05	1.55	1.05	1.05	2.55	1.55	1.55	3.50	2.10	2.10	5.50	4.00	4.00	9.55	6.55	6.55	13.10	10.00	10.00
February 15, 1943	0.20	0.20	0.20	0.35	0.35	0.35	1.05	1.05	1.05	1.20	1.05	1.05	2.20	1.20	1.20	2.80	1.75	1.75	4.45	3.30	3.30	7.80	5.50	5.50	11.00	8.25	8.25
July 1, 1945	0.20	0.20	0.20	0.35	0.35	0.35	1.05	1.05	1.05	1.20	1.05	1.05	2.20	1.20	1.20	2.80	1.75	1.75	4.45	3.30	3.30	6.15	4.95	4.95	6.70	5.50	5.50
February 1, 1946	0.20	0.20	0.20	0.35	0.35	0.35	1.05	1.05	1.05	1.20	1.05	1.05	2.20	1.20	1.20	2.80	1.75	1.75	4.45	3.30	3.30	5.55	4.45	4.45	6.70	5.50	5.50
March 1, 1952	0.25	0.25	0.25	0.50	0.50	0.50	1.05	1.05	1.05	1.25	1.05	1.05	2.20	1.20	1.20	2.80	1.75	1.75	3.95	2.85	2.85	5.55	4.45	4.45	6.70	5.50	5.50
October 1, 1953	0.25	0.25	0.25	0.50	0.50	0.50	1.05	1.05	1.05	1.60	1.10	1.10	2.20	1.65	1.65	3.15	2.20	2.20	4.30	3.30	3.30	5.90	4.80	4.80	7.05	5.85	5.85
September 19, 1959	0.25	0.25	0.25	0.50	0.50	0.50	1.05	1.05	1.05	1.60	1.10	1.10	2.20	1.65	1.65	3.15	2.20	2.20	4.25	3.25	3.25	4.95	3.85	3.85	6.45	4.90	4.90
April 4, 1963	0.45	0.45	0.45	0.55	0.55	0.55	1.05	1.05	1.05	1.60	1.10	1.10	2.20	1.65	1.65	3.15	2.20	1.65	4.25	3.25	2.10	4.95	3.85	2.65	6.45	4.90	2.75
February 1, 1965	0.45	0.45	0.45	0.55	0.55	0.55	1.05	1.05	1.05	1.60	1.10	1.10	2.20	1.65	1.65	3.15	2.20	1.65	4.25	2.75	2.10	4.95	3.25	2.55	6.45	4.30	2.75
April 1, 1965	0.45	0.45	0.45	0.55	0.55	0.55	1.05	1.05	1.05	1.60	1.10	1.10	2.20	1.65	1.65	3.15	2.20	1.65	3.85	2.75	2.10	4.85	3.30	2.65	5.50	4.30	2.75
November 1, 1967	0.50	0.50	0.50	0.55	0.55	0.55	1.05	1.05	1.05	1.60	1.10	1.10	2.20	1.65	1.65	3.15	2.20	1.65	3.85	2.65	2.10	4.40	3.20	2.60	4.90	3.70	2.75
August 1, 1968	0.50	0.50	0.50	0.55	0.55	0.55	1.05	1.05	1.05	1.60	1.10	1.10	2.20	1.65	1.65	3.15	2.20	1.65	3.75	2.65	2.10	4.35	3.20	2.60	4.85	3.70	2.75
January 1, 1970	0.50	0.50	0.45	0.55	0.55	0.45	1.05	1.05	1.05	1.60	1.10	1.05	2.15	1.60	1.55	2.60	1.60	1.55	3.55	2.05	1.55	4.10	2.55	2.05	4.55	2.65	2.15
February 1, 1970	0.50	0.50	0.45	0.55	0.55	0.45	1.05	1.05	1.05	1.60	1.10	1.05	2.10	1.60	1.55	2.55	1.60	1.55	3.15	2.05	1.55	4.05	2.50	2.05	4.50	2.60	2.15
January 26, 1971	0.52	0.41	0.31	0.72	0.52	0.38	1.24	0.95	0.75	1.79	1.10	1.05	2.34	1.60	1.46	2.65	1.60	1.55	3.50	2.05	1.55	3.70	2.50	2.05	4.50	2.60	2.15
January 22, 1973	0.52	0.41	0.31	0.72	0.52	0.38	1.24	0.95	0.75	1.98	1.10	1.05	2.48	1.60	1.46	2.79	1.60	1.55	3.60	2.05	1.55	4.29	2.50	2.05	4.67	2.60	2.15
March 9, 1975	0.70	0.45	0.27	1.02	0.66	0.40	1.95	1.26	0.78	2.75	1.78	1.10	3.15	2.04	1.26	3.35	2.17	1.34	3.65	2.37	1.45	3.96	2.57	1.58	4.16	2.70	1.66
February 29, 1976	0.91	0.59	0.36	1.40	0.91	0.56	2.15	1.39	0.86	2.95	1.91	1.18	3.25	2.11	1.30	3.45	2.24	1.38	3.66	2.31	1.42	3.76	2.44	1.50	3.96	2.57	1.58
September 13, 1977	1.00	0.65	0.40	1.31	0.85	0.52	2.24	1.45	0.89	3.04	1.97	1.21	3.34	2.17	1.33	3.54	2.30	1.41	3.56	2.31	1.42	3.76	2.44	1.50	3.96	2.57	1.58
June 6, 1980	1.01	0.65	0.40	1.41	0.91	0.56	2.35	1.52	0.94	3.15	2.04	1.26	3.54	2.30	1.41	3.74	2.43	1.49	3.77	2.45	1.50	3.97	2.58	1.58	4.17	2.71	1.66
June 28, 1981	1.13	0.73	0.45	1.63	1.05	0.65	2.77	1.80	1.10	3.67	2.38	1.46	4.07	2.64	1.62	4.36	2.83	1.74	4.39	2.85	1.75	4.60	2.98	1.84	4.80	3.11	1.92
April 2, 1982	1.76	1.05	0.70	2.38	1.42	0.95	3.00	1.80	1.20	3.90	2.33	1.56	4.09	2.45	1.63	4.37	2.62	1.74	4.49	2.69	1.79	4.60	2.76	1.84	5.15	3.09	2.06
May 25, 1984	1.65	0.99	0.66	2.27	1.36	0.90	2.79	1.67	1.11	3.69	2.21	1.47	3.87	2.32	1.54	4.06	2.43	1.62	4.18	2.50	1.67	4.29	2.57	1.71	4.83	2.89	1.93
April 26, 1985	2.09	1.25	0.83	2.71	1.62	1.08	3.21	1.92	1.28	3.69	2.21	1.47	3.87	2.32	1.54	4.06	2.43	1.62	4.18	2.50	1.67	4.29	2.57	1.71	4.83	2.89	1.93
June 1, 1985	1.98	1.18	0.79	2.59	1.55	1.03	3.00	1.80	1.20	3.48	2.08	1.39	3.66	2.19	1.46	3.85	2.31	1.54	3.97	2.38	1.58	4.07	2.44	1.62	4.43	2.65	1.77
June 1, 1986	1.75	1.05	0.77	2.26	1.35	0.99	2.57	1.54	1.13	2.96	1.77	1.30	3.14	1.88	1.38	3.33	1.99	1.46	3.44	2.06	1.51	3.54	2.12	1.55	3.80	2.28	1.67
July 11, 1986	1.75	1.05	0.77	2.26	1.35	0.99	2.57	1.54	1.13	2.95	1.77	1.29	3.14	1.88	1.38	3.33	1.99	1.46	3.44	2.06	1.51	3.54	2.12	1.55	3.79	2.27	1.66
January 1, 1987	1.58	0.97	0.74	1.99	1.23	0.93	2.20	1.36	1.03	2.49	1.54	1.17	2.67	1.65	1.25	2.86	1.77	1.34	3.06	1.89	1.43	3.16	1.95	1.48	3.28	2.03	1.54
July 1, 1987	1.48	0.91	0.69	1.89	1.17	0.88	2.09	1.29	0.98	2.38	1.47	1.11	2.56	1.58	1.20	2.75	1.70	1.29	2.95	1.82	1.38	2.96	1.83	1.39	3.08	1.90	1.44
January 1, 1988	1.47	0.95	0.73	1.79	1.16	0.89	1.99	1.29	0.99	2.18	1.41	1.09	2.45	1.59	1.22	2.55	1.65	1.27	2.74	1.78	1.37	2.76	1.79	1.38	2.88	1.87	1.44
December 1, 1988	1.47	0.98	0.70	1.78	1.19	0.85	1.98	1.32	0.95	2.16	1.44	1.03	2.34	1.56	1.12	2.43	1.62	1.16	2.64	1.76	1.26	2.64	1.76	1.26	2.75	1.84	1.32
April 1, 1989	1.71	1.14	0.88	2.01	1.34	1.04	2.21	1.48	1.14	2.30	1.54	1.19	2.31	1.54	1.20	2.31	1.54	1.20	2.41	1.61	1.25	2.51	1.68	1.30	2.51	1.68	1.30
July 1, 1989	1.71	1.14	0.88	2.01	1.34	1.04	2.21	1.48	1.14	2.21	1.48	1.14	2.30	1.54	1.19	2.31	1.54	1.20	2.40	1.60	1.24	2.50	1.67	1.30	2.50	1.67	1.30
November 29, 1989	1.71	1.14	0.97	2.01	1.34	1.10	2.21	1.48	1.20	2.21	1.48	1.20	2.30	1.54	1.21	2.31	1.54	1.22	2.40	1.60	1.26	2.50	1.67	1.30	2.50	1.67	1.32
January 1, 1990	1.71	1.14	0.97	2.00	1.34	1.10	2.01	1.48	1.20	2.15	1.48	1.20	2.15	1.53	1.21	2.30	1.54	1.22	2.39	1.58	1.26	2.50	1.58	1.30	2.50	1.58	1.32
July 1, 1990	1.71	1.14	0.97	1.97	1.34	1.10	1.97	1.45	1.20	2.15	1.45	1.20	2.15	1.45	1.21	2.30	1.45	1.22	2.39	1.49	1.26	2.49	1.49	1.30	2.49	1.49	1.32
January 1, 1991	1.71	1.11	0.97	1.80	1.30	1.10	1.95	1.30	1.20	2.10	1.45	1.20	2.10	1.45	1.21	2.30	1.45	1.22	2.30	1.49	1.26	2.48	1.49	1.30	2.49	1.49	1.32
February 16, 1991	1.71	1.11	1.05	1.80	1.30	1.13	1.90	1.30																			

B. Business Rates

Tables 2.6 and 2.7 present the basic schedule rates of AT&T, MCI, and Sprint have charged business customers since 1980. The basic schedule rates are those charged to businesses who do not enter into a contract or specify a particular calling plan when beginning service. Since many businesses have sophisticated and variable telecommunications needs, carriers have designed calling plans that combine many services such as basic long distance, WATS, inbound toll-free, dedicated lines, and calling card services into a comprehensive package. Customer-specific contracts have also become much more common in recent years. Consequently, it has become very difficult to pinpoint the toll rates paid by businesses.

Table 2.6
Basic Schedule Rates of AT&T, MCI, and Sprint for Business Customers as of December 31
10-minute Day Call

	Business Day Rates for 10 Minute calls																										
	5 Mile Call			16 Mile Call			39 Mile Call			90 Mile Call			200 Mile Call			334 Mile Call			678 Mile Call			1418 Mile Call			2455 Mile Call		
	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint
1980	\$1.01			\$1.41			\$2.35			\$3.15	\$2.37	\$2.30	\$3.54	\$2.58	\$2.50	\$3.74	\$2.81	\$2.70	\$3.77	\$3.22	\$2.90	\$3.97	\$3.61	\$3.20	\$4.17	\$3.82	\$3.30
1981	1.13			1.63			2.77			3.67	3.07	2.67	4.07	3.39	2.90	4.36	3.62	3.13	4.39	3.66	3.36	4.60	3.84	3.71	4.80	4.00	3.83
1982	1.76	\$1.53	\$1.53	2.38	\$1.54	\$1.55	3.00	\$1.94	\$1.92	3.90	3.28	3.27	4.09	3.42	3.43	4.37	3.63	3.62	4.49	3.74	3.74	4.60	3.84	3.83	5.15	4.32	4.32
1983	1.76	1.54	1.54	2.38	2.10	2.09	3.00	2.70	2.69	3.90	3.28	3.29	4.09	3.42	3.43	4.37	3.63	3.62	4.49	3.74	3.74	4.60	3.84	3.83	5.15	4.32	4.32
1984	1.65	1.48	1.62	2.27	1.96	2.19	2.79	2.56	2.76	3.69	3.33	3.49	3.87	3.48	3.63	4.06	3.72	3.80	4.18	3.84	3.98	4.29	3.96	4.06	4.83	4.47	4.67
1985	1.98	1.80	1.70	2.59	2.33	2.00	3.00	2.82	2.20	3.48	3.29	3.34	3.66	3.48	3.45	3.85	3.72	3.63	3.97	3.84	3.70	4.07	3.96	3.80	4.43	4.28	4.10
1986	1.75	1.67	1.61	2.26	2.12	2.11	2.57	2.47	2.46	2.95	2.85	2.84	3.14	3.04	3.03	3.33	3.25	3.24	3.44	3.35	3.34	3.54	3.46	3.45	3.79	3.68	3.67
1987	1.48	1.45	1.46	1.89	1.85	1.86	2.09	2.04	2.06	2.38	2.32	2.34	2.56	2.51	2.52	2.75	2.70	2.70	2.95	2.90	2.92	2.96	2.91	2.93	3.08	3.04	3.04
1988	1.47	1.44	1.44	1.78	1.75	1.76	1.98	1.94	1.94	2.16	2.12	2.13	2.34	2.40	2.40	2.43	2.50	2.50	2.64	2.69	2.71	2.64	2.71	2.73	2.75	2.84	2.84
1989	1.71	1.70	1.70	2.01	2.00	2.00	2.21	2.15	2.20	2.21	2.15	2.20	2.30	2.15	2.25	2.31	2.15	2.30	2.40	2.35	2.35	2.50	2.45	2.45	2.50	2.45	2.45
1990	1.71	1.70	1.71	1.97	1.90	1.90	1.97	1.90	1.90	2.15	2.10	2.10	2.15	2.10	2.10	2.30	2.10	2.30	2.39	2.30	2.30	2.49	2.40	2.40	2.49	2.40	2.40
1991	1.70	1.70	1.71	1.80	1.80	1.80	1.90	1.90	1.90	2.10	2.10	2.10	2.10	2.10	2.10	2.30	2.30	2.30	2.30	2.30	2.30	2.44	2.40	2.40	2.45	2.40	2.40
1992	2.00	1.99	2.00	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.10	2.10	2.30	2.29	2.30	2.30	2.30	2.30	2.40	2.39	2.40	2.50	2.50	2.40
1993	2.20	2.27	2.27	2.20	2.27	2.27	2.20	2.27	2.27	2.40	2.45	2.45	2.40	2.45	2.45	2.40	2.51	2.51	2.40	2.51	2.51	2.58	2.62	2.62	2.58	2.63	2.63
1994	2.20	2.27	2.54	2.20	2.27	2.54	2.20	2.26	2.54	2.40	2.45	2.77	2.40	2.45	2.77	2.40	2.51	2.77	2.40	2.51	2.77	2.58	2.62	2.98	2.58	2.63	2.98
1995	2.82	2.61	2.72	2.82	2.61	2.72	2.82	2.61	2.72	3.04	2.82	2.94	3.04	2.82	2.94	3.04	2.82	2.94	3.04	2.80	2.94	3.19	2.95	3.08	3.19	2.95	3.08
1996	3.10	3.09	2.72	3.10	3.09	2.72	3.10	3.09	2.72	3.35	3.34	2.72	3.35	3.34	2.94	3.35	3.34	2.94	3.35	3.34	2.94	3.51	3.50	3.08	3.51	3.50	3.08
1997	3.64	3.87	2.89	3.64	3.87	2.89	3.64	3.87	2.89	3.64	3.87	3.12	3.64	3.87	3.12	3.64	3.87	3.12	3.64	3.87	3.12	3.64	3.87	3.26	3.64	3.87	3.26
Percent Changes from 1987 to 1997																											
	146%	166%	98%	92%	109%	55%	74%	90%	40%	53%	67%	33%	42%	54%	24%	32%	43%	15%	23%	33%	7%	23%	33%	11%	18%	27%	7%

* Sprint has not offered basic "dial 1" MTS to new business customers since 7/30/95

Table 2.7
Basic Schedule Rates of AT&T, MCI, and Sprint for Business Customers as of December 31
10-minute Night Call

	Business Night Rates for 10 Minute calls																										
	5 Mile Call			16 Mile Call			39 Mile Call			90 Mile Call			200 Mile Call			334 Mile Call			678 Mile Call			1418 Mile Call			2455 Mile Call		
	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint	AT&T	MCI	Sprint
1980	\$0.40			\$0.56			\$0.94			\$1.26	\$0.71	\$0.92	\$1.46	\$0.77	\$1.00	\$1.49	\$0.84	\$1.08	\$1.50	\$0.97	\$1.16	\$1.58	\$1.08	\$1.28	\$1.66	\$1.15	\$1.32
1981	0.45			0.65			1.10			1.46	1.01	1.07	1.62	1.12	1.16	1.74	1.21	1.25	1.75	1.21	1.35	1.84	1.27	1.48	1.92	1.33	1.53
1982	0.70	\$0.51	\$0.36	0.95	\$0.69	\$0.50	1.20	\$0.87	\$0.80	1.56	1.14	1.00	1.63	1.20	1.19	1.74	1.28	1.20	1.79	1.31	1.27	1.84	1.35	1.29	2.06	1.50	1.31
1983	0.70	0.61	0.59	0.95	0.84	0.79	1.20	1.08	0.99	1.56	1.25	1.20	1.63	1.32	1.30	1.74	1.41	1.33	1.67	1.45	1.40	1.84	1.48	1.48	2.06	1.66	1.56
1984	0.66	0.60	0.64	0.90	0.81	0.86	1.11	1.02	1.07	1.47	1.34	1.36	1.54	1.44	0.15	1.62	1.50	1.58	1.58	1.60	1.61	1.71	1.63	1.64	1.93	1.82	1.81
1985	0.79	0.73	0.92	1.03	0.96	1.05	1.20	1.14	1.15	1.39	1.32	1.36	1.46	1.39	1.45	1.54	1.44	1.52	1.51	1.55	1.56	1.62	1.60	1.59	1.77	1.71	1.73
1986	0.77	0.72	0.62	0.99	0.93	0.93	1.13	1.07	1.06	1.29	1.23	1.22	1.38	1.31	1.30	1.46	1.34	1.33	1.38	1.48	1.57	1.55	1.54	1.52	1.66	1.62	1.61
1987	0.69	0.67	0.68	0.88	0.87	0.86	0.98	0.95	0.95	1.11	1.09	1.04	1.20	1.18	1.04	1.29	1.27	1.05	1.26	1.37	1.37	1.39	1.37	1.38	1.44	1.42	1.43
1988	0.70	0.66	0.68	0.85	0.86	0.86	0.95	0.95	0.95	1.03	1.06	1.04	1.12	1.17	1.04	1.16	1.25	1.05	1.26	1.35	1.36	1.26	1.36	1.36	1.32	1.41	1.42
1989	0.97	0.92	0.85	1.10	1.05	0.95	1.20	1.15	1.05	1.20	1.15	1.15	1.21	1.15	1.15	1.22	1.15	1.15	1.26	1.22	1.22	1.30	1.25	1.25	1.32	1.25	1.25
1990	0.97	0.92	0.95	1.10	1.05	1.10	1.20	1.15	1.20	1.20	1.15	1.20	1.21	1.15	1.20	1.22	1.15	1.20	1.26	1.22	1.25	1.30	1.25	1.30	1.32	1.25	1.30
1991	1.05	1.00	1.00	1.13	1.10	1.10	1.20	1.20	1.20	1.20	1.20	1.20	1.22	1.20	1.20	1.25	1.20	1.20	1.30	1.30	1.30	1.33	1.30	1.30	1.35	1.30	1.30
1992	1.10	1.09	1.10	1.20	1.17	1.20	1.20	1.17	1.20	1.20	1.20	1.20	1.30	1.18	1.30	1.30	1.25	1.30	1.30	1.25	1.30	1.30	1.25	1.35	1.30	1.25	1.30
1993	1.40	1.51	1.51	1.40	1.51	1.51	1.40	1.51	1.51	1.40	1.65	1.65	1.40	1.65	1.65	1.40	1.74	1.74	1.40	1.74	1.74	1.50	1.82	1.82	1.50	1.82	1.82
1994	1.40	1.51	1.62	1.40	1.51	1.62	1.40	1.51	1.62	1.40	1.65	1.73	1.40	1.65	1.73	1.40	1.74	1.73	1.40	1.74	1.73	1.50	1.82	1.85	1.50	1.82	1.85
1995	1.80	1.66	1.74	1.80	1.66	1.74	1.80	1.66	1.74	1.91	1.77	1.84	1.91	1.77	1.84	1.91	1.77	1.84	1.91	1.77	1.84	1.99	1.84	1.92	1.99	1.84	1.92
1996	1.98	1.97	1.74	1.98	1.97	1.74	1.98	1.97	1.74	2.10	2.09	1.84	2.10	2.09	1.84	2.10	2.09	1.84	2.10	2.09	1.84	2.19	2.18	1.92	2.19	2.18	1.92
1997	3.64	2.91	1.87	3.64	2.91	1.87	3.64	2.91	1.87	3.64	2.91	1.95	3.64	2.91	1.95	3.64	2.91	1.95	3.64	2.91	1.95	3.64	2.91	2.04	3.64	2.91	2.04
Percent Changes from 1987 to 1997																											
	427%	336%	175%	313%	235%	117%	271%	205%	97%	227%	167%	88%	203%	147%	88%	182%	129%	86%	188%	112%	43%	162%	112%	48%	152%	105%	43%

* Sprint has not offered basic "dial 1" MTS to new business customers since 7/30/95

C. Additional Sources of Information on Toll Rates

All interstate interexchange carriers are required to file tariffs setting forth their rates with the FCC. These filings are available for public inspection at the FCC's Tariff Public Reference Room, Room 250, 1919 M St., NW, Washington, DC.

Copies of particular interstate tariffs can be obtained from the FCC's copy contractor, ITS, at (202) 857-8300.

The National Association of Regulatory Utility Commissioners (NARUC) publishes Bell Operating Companies Long Distance Message Telephone Rates, that contains intraLATA rates for residential and business customers served by Ameritech, Bell Atlantic, Bell South, Cincinnati Bell, SBC, Southern New England Telecommunications, and US West. More information can be found at www.naruc.org on the Internet.

The Bureau of Labor Statistics, part of the U.S. Department of Labor, publishes a number of price indices that follow trends in toll rates. Part IV of this report reviews these indices. The most current figures can be obtained at stats.bls.gov on the Internet.

Finally, there are a number of firms that specialize in monitoring and analyzing the tariff filings of major long distance companies. One of these firms may be able to provide you with the information you need.

III. Expenditures on Telephone Service

A. Residential Expenditures

The Bureau of Labor Statistics (BLS) conducts surveys of consumer expenditures, in part, to develop weights for the consumer price indices. The surveys collect income, expenditure, and demographic information for "consumer units". Consumer units are often referred to as households, but the definition is not identical to households, as defined by the Census Bureau.¹ There were 100 million consumer units in 1993, compared with 98.8 million households. BLS uses two types of surveys: diary surveys - where household members record most types of purchases for a few weeks; and, interview surveys - where households are interviewed to determine their expenditures for the prior three months. Households selected for the interview survey are interviewed in five successive quarters. Tables 3.1 through 3.5 present the annual average total expenditures and telephone expenditures by various demographic classifications.

Prior to 1984, BLS published separate expenditure estimates based on the diary and the interview surveys. At that time, telephone expenditures were collected only through the interview surveys, and average levels of telephone expenditures were published only in the interview summaries. BLS began publishing integrated estimates in 1984, combining information from both types of surveys.

Expenditure data were not collected for rural households for 1980 through 1983. Nationwide expenditure data are available for 1984 through 1994. More than 80 percent of households are in urban areas, and the estimates of telephone expenditures by urban households are similar to estimates for nationwide average telephone expenditures. Nonetheless, 1980 through 1983 data are not completely comparable with subsequent data.

Several changes in the telephone industry make it difficult to interpret changes in the BLS estimates of household expenditures for telephone service. Prior to 1983, most residential telephones were leased from local exchange carriers. As a consequence of the FCC's Computer Inquiry II proceeding, telephone sets were detariffed on January 1, 1984. Existing tariffed equipment became known as "embedded rate base" and much of this equipment was sold "in place" to consumers. Significant amounts of equipment purchases were included on local telephone bills in 1983 and 1984. Telephone bills have not included significant amounts of equipment sales since that time. Bell System embedded rate base was transferred to AT&T in 1984, but the lease payments were included in local telephone bills into 1987. AT&T now directly bills customers for equipment lease charges.

The BLS has changed the consumer expenditure survey questionnaires to reflect changes in the equipment market. Beginning in 1982, the survey specifically included telephones and accessories in its list of home furnishings and related household items. Amounts appearing on the telephone bills, however, were included as telephone service until 1986. Thus, the 1983 and 1984 estimates include the sale of the embedded base.

¹ We will refer to consumer units as "households" in this report as well.

The current questionnaire separates equipment sales from other items that appear on telephone bills. The questionnaire does not specifically address payments for leasing telephone equipment, commonly known as customer premises equipment (CPE). CPE lease payments may still be reported as telephone service expenditures.

The consumer expenditure survey continues to classify payments for inside wiring maintenance as part of telephone service. This probably accounts for between \$10 to \$20 of average annual household telephone expenditures. Beginning in 1991, consumers have been asked to separately identify cellular telephone payments. The BLS has not yet published a separate estimate for cellular telephone expenditures, but rather, continues to include these with other telephone expenditures.

Table 3.6 presents estimates of annual household telecommunications expenditures by the type of service provider. This table is derived from data in the TLC MarketShare Monitor produced by PNR Associates, Inc. and Market Facts, Inc. These data were donated to the Commission by PNR and Associates, Inc. PNR is an economic research and consulting firm located in Jenkinstown, Pennsylvania. PNR, in association with Market Facts, Inc., conducts nationwide surveys of telephone usage and expenditures. These surveys, in which respondents are asked to mail in copies of their phone bills, are referred to as Bill Harvesting studies.

Table 3.1
Average Annual Household Expenditures
by Household Location

	All Households	Urban Households	Rural Households	Census Region			
				Northeast	Midwest	South	West
Total Household Expenditures							
1980	\$16,723	\$16,723		\$17,222	\$16,024	\$16,188	\$17,962
1981	17,558	17,558		17,053	17,324	17,086	19,275
1982	18,071	18,071		16,980	18,143	17,820	19,710
1983	19,692	19,692		19,077	19,580	19,074	21,538
1984	21,975	22,729	\$18,217	21,593	21,167	21,587	24,238
1985	23,490	24,129	20,257	22,808	22,664	23,180	25,961
1986	23,866	24,571	19,677	24,905	22,706	22,545	26,476
1987	24,414	25,063	20,513	25,079	23,021	23,292	27,309
1988	25,892	26,617	21,380	26,348	24,763	24,671	28,830
1989	27,809	28,584	23,106	28,241	26,062	26,232	32,144
1990	28,369	28,989	24,499	28,369	25,919	27,011	32,445
1991	29,614	30,382	24,785	31,026	27,675	28,062	33,131
1992	29,846	30,569	25,347	31,177	28,445	27,750	33,647
1993	30,692	31,431	26,296	31,634	28,884	29,247	34,348
1994	31,731	32,233	28,668	32,549	30,331	30,072	35,318
1995	32,264	33,101	27,160	33,009	31,909	30,289	35,206
Household Expenditures for Telephone Service							
1980	\$325	\$325		\$335	\$303	\$339	\$320
1981	360	360		358	353	365	366
1982	375	375		351	364	372	426
1983	415	415		410	393	435	419
1984	435	450	\$359	433	407	445	458
1985	455	466	402	459	419	457	500
1986	471	478	425	470	444	477	494
1987	499	503	475	501	464	505	532
1988	537	544	493	524	498	545	585
1989	567	577	505	570	532	572	601
1990	592	599	549	589	547	616	611
1991	618	621	601	621	595	616	647
1992	623	629	580	636	589	624	646
1993	658	666	606	677	616	673	664
1994	690	698	642	700	663	690	713
1995	708	720	633	717	706	714	691
Expenditures on Telephone Service as a Percentage of Total Household Expenditures							
1980	1.94%	1.94%		1.95%	1.89%	2.09%	1.78%
1981	2.05%	2.05%		2.10%	2.04%	2.14%	1.90%
1982	2.08%	2.08%		2.07%	2.01%	2.09%	2.16%
1983	2.11%	2.11%		2.15%	2.01%	2.28%	1.95%
1984	1.98%	1.98%	1.97%	2.01%	1.92%	2.06%	1.89%
1985	1.94%	1.93%	1.98%	2.01%	1.85%	1.97%	1.93%
1986	1.97%	1.95%	2.16%	1.89%	1.96%	2.12%	1.87%
1987	2.04%	2.01%	2.32%	2.00%	2.02%	2.17%	1.95%
1988	2.07%	2.04%	2.31%	1.99%	2.01%	2.21%	2.03%
1989	2.04%	2.02%	2.19%	2.02%	2.04%	2.18%	1.87%
1990	2.09%	2.07%	2.24%	2.08%	2.11%	2.28%	1.88%
1991	2.09%	2.04%	2.42%	2.00%	2.15%	2.20%	1.95%
1992	2.09%	2.06%	2.29%	2.04%	2.07%	2.25%	1.92%
1993	2.14%	2.12%	2.30%	2.14%	2.13%	2.30%	1.93%
1994	2.17%	2.16%	2.24%	2.15%	2.18%	2.30%	2.02%
1995	2.19%	2.18%	2.33%	2.17%	2.21%	2.36%	1.96%

Table 3.2
Average Annual Household Expenditures
by Race and National Origin

	By Race		By National Origin	
	White & Other	Black	Hispanic	Non-hispanic
Total Household Expenditures				
1980	\$17,335	\$12,016		
1981	18,169	12,856		
1982	18,693	13,229		
1983	20,567	12,878		
1984	22,847	14,631		
1985	24,399	15,979		
1986	24,806	16,203		
1987	25,376	16,324		
1988	27,004	16,670		
1989	28,944	18,343		
1990	29,547	19,130		
1991	30,794	20,091		
1992	31,158	19,695		
1993	31,967	20,684		
1994	32,914	22,413	\$26,433	\$32,165
1995	33,373	23,739	26,744	32,729
Household Expenditures for Telephone Service				
1980	\$321	\$356		
1981	359	370		
1982	368	432		
1983	411	448		
1984	432	462		
1985	454	463		
1986	470	478		
1987	498	506		
1988	537	536		
1989	563	603		
1990	588	624		
1991	613	657		
1992	619	647		
1993	650	719		
1994	681	756	\$793	\$681
1995	698	782	796	700
Expenditures on Telephone Service as a Percentage of Total Household Expenditures				
1980	1.85%	2.96%		
1981	1.98%	2.88%		
1982	1.97%	3.27%		
1983	2.00%	3.48%		
1984	1.89%	3.16%		
1985	1.86%	2.90%		
1986	1.89%	2.95%		
1987	1.96%	3.10%		
1988	1.99%	3.22%		
1989	1.95%	3.29%		
1990	1.99%	3.26%		
1991	1.99%	3.27%		
1992	1.99%	3.29%		
1993	2.03%	3.48%		
1994	2.07%	3.37%	3.00%	2.12%
1995	2.09%	3.29%	2.98%	2.14%

Table 3.3
Average Annual Household Expenditures
by Household Income

	Households grouped by total income from lowest to highest quintile				
	1	2	3	4	5
Total Household Expenditures					
1980	\$7,746	\$11,452	\$15,370	\$20,143	\$29,717
1981	7,945	11,688	16,099	21,280	31,404
1982	8,080	11,788	16,200	21,444	33,311
1983	8,557	12,504	17,239	23,359	36,936
1984	10,894	14,337	19,469	26,138	41,825
1985	11,417	15,092	20,374	27,760	45,166
1986	11,477	14,639	21,088	28,698	46,242
1987	10,355	15,686	21,708	29,603	46,470
1988	10,893	16,880	23,290	32,084	48,718
1989	12,119	17,616	24,476	34,231	53,093
1990	12,908	17,924	24,673	34,247	55,411
1991	13,464	18,986	26,144	36,151	57,597
1992	12,643	19,257	26,573	36,094	57,981
1993	13,957	19,712	26,603	37,299	59,521
1994	14,356	20,891	28,513	39,033	60,803
1995	14,607	22,126	29,125	39,395	62,639
Household Expenditures for Telephone Service					
1980	\$202	\$266	\$335	\$365	\$450
1981	235	294	361	415	487
1982	257	314	354	423	506
1983	268	353	386	472	571
1984	295	350	430	476	630
1985	311	363	449	503	628
1986	337	383	453	526	662
1987	335	403	501	547	670
1988	352	441	538	585	727
1989	370	459	564	644	757
1990	402	496	585	647	818
1991	415	532	596	665	834
1992	424	533	621	677	844
1993	457	532	652	731	911
1994	455	591	672	761	963
1995	491	599	703	785	968
Expenditures on Telephone Service as a Percentage of Total Household Expenditures					
1980	2.61%	2.32%	2.18%	1.81%	1.51%
1981	2.96%	2.52%	2.24%	1.95%	1.55%
1982	3.18%	2.66%	2.19%	1.97%	1.52%
1983	3.13%	2.82%	2.24%	2.02%	1.55%
1984	2.71%	2.44%	2.21%	1.82%	1.51%
1985	2.72%	2.41%	2.20%	1.81%	1.39%
1986	2.94%	2.62%	2.15%	1.83%	1.43%
1987	3.24%	2.57%	2.31%	1.85%	1.44%
1988	3.23%	2.61%	2.31%	1.82%	1.49%
1989	3.05%	2.61%	2.30%	1.88%	1.43%
1990	3.11%	2.77%	2.37%	1.89%	1.48%
1991	3.08%	2.80%	2.28%	1.84%	1.45%
1992	3.35%	2.77%	2.34%	1.88%	1.46%
1993	3.27%	2.70%	2.45%	1.96%	1.53%
1994	3.17%	2.83%	2.36%	1.95%	1.58%
1995	3.36%	2.71%	2.41%	1.99%	1.55%

Table 3.4
Average Annual Household Expenditures
by Age of the Head of the Household

	By Age of Head of Household						
	Under 25	25-34	35-44	45-54	55-64	65-74	over 74
Total Household Expenditures							
1980	\$10,903	\$17,452	\$21,235	\$22,517	\$17,535		
1981	11,309	18,503	22,890	23,385	17,418		
1982	11,368	18,814	23,309	23,539	18,449		
1983	11,855	19,708	25,230	25,896	20,585		
1984	13,461	22,294	28,214	28,696	23,401	\$15,842	\$11,122
1985	13,763	23,349	29,604	30,946	24,766	17,938	13,012
1986	14,142	23,931	31,219	32,218	24,808	17,506	12,198
1987	14,368	24,177	31,473	31,708	25,707	18,888	12,230
1988	16,373	25,770	33,077	33,205	25,765	20,120	13,339
1989	16,577	26,683	35,589	36,073	28,617	21,152	15,919
1990	16,518	28,107	35,579	36,996	29,244	20,895	15,448
1991	16,745	29,280	36,446	38,137	31,945	22,564	15,782
1992	17,258	29,554	37,196	37,427	31,704	22,862	17,794
1993	17,468	28,594	37,429	41,020	32,973	23,706	18,350
1994	18,417	30,458	37,565	41,420	33,682	25,059	19,280
1995	18,425	31,493	38,397	42,179	32,626	25,277	18,572
Household Expenditures for Telephone Service							
1980	\$248	\$343	\$401	\$415	\$319		
1981	275	377	433	458	364		
1982	266	389	436	484	391		
1983	275	439	472	535	421		
1984	292	450	541	558	451	\$341	\$266
1985	323	449	535	576	473	377	298
1986	342	485	546	580	483	399	316
1987	381	504	586	607	521	401	328
1988	417	534	617	669	543	458	338
1989	396	583	640	719	567	486	360
1990	430	604	682	750	590	476	376
1991	471	629	684	803	641	487	376
1992	469	648	698	753	652	502	421
1993	512	687	734	782	707	520	441
1994	570	726	766	819	697	551	445
1995	541	744	777	859	723	577	443
Expenditures on Telephone Service as a Percentage of Total Household Expenditures							
1980	2.27%	1.97%	1.89%	1.84%	1.82%		
1981	2.43%	2.04%	1.89%	1.96%	2.09%		
1982	2.34%	2.07%	1.87%	2.06%	2.12%		
1983	2.32%	2.23%	1.87%	2.07%	2.05%		
1984	2.17%	2.02%	1.92%	1.94%	1.93%	2.15%	2.39%
1985	2.35%	1.92%	1.81%	1.86%	1.91%	2.10%	2.29%
1986	2.42%	2.03%	1.75%	1.80%	1.95%	2.28%	2.59%
1987	2.65%	2.08%	1.86%	1.91%	2.03%	2.12%	2.68%
1988	2.55%	2.07%	1.87%	2.01%	2.11%	2.28%	2.53%
1989	2.39%	2.18%	1.80%	1.99%	1.98%	2.30%	2.26%
1990	2.60%	2.15%	1.92%	2.03%	2.02%	2.28%	2.43%
1991	2.81%	2.15%	1.88%	2.11%	2.01%	2.16%	2.38%
1992	2.72%	2.19%	1.88%	2.01%	2.06%	2.20%	2.37%
1993	2.93%	2.40%	1.96%	1.91%	2.14%	2.19%	2.40%
1994	3.09%	2.38%	2.04%	1.98%	2.07%	2.20%	2.31%
1995	2.94%	2.36%	2.02%	2.04%	2.22%	2.28%	2.39%

Table 3.5
Average Annual Household Expenditures
by Size of the Household

	By Size of Household				
	1	2	3	4	over 4
Total Household Expenditures					
1980					
1981					
1982					
1983					
1984	\$12,994	\$21,515	\$26,653	\$28,403	
1985	13,954	23,442	28,317	31,408	
1986	13,733	24,675	28,050	32,232	
1987	14,693	24,761	28,549	32,753	
1988	15,671	26,350	30,446	34,455	\$32,706
1989	16,814	28,622	32,643	35,803	35,871
1990	17,128	28,851	33,688	37,493	36,279
1991	17,569	30,648	34,389	38,806	38,269
1992	17,797	30,773	34,982	40,658	38,019
1993	17,999	31,603	35,416	42,397	39,981
1994	19,343	33,062	36,732	41,480	40,702
1995	19,389	33,100	37,838	42,819	41,561
Household Expenditures for Telephone Service					
1980					
1981					
1982					
1983					
1984	\$311	\$420	\$494	\$515	
1985	330	458	501	548	
1986	347	470	539	563	
1987	367	489	587	590	
1988	409	527	601	626	\$681
1989	423	564	633	650	739
1990	440	582	681	681	769
1991	449	617	693	722	808
1992	470	616	700	722	821
1993	472	656	740	803	854
1994	502	699	774	817	879
1995	506	714	815	839	894
Expenditures on Telephone Service as a Percentage of Total Household Expenditures					
1980					
1981					
1982					
1983					
1984	2.39%	1.95%	1.85%	1.81%	
1985	2.36%	1.95%	1.77%	1.74%	
1986	2.53%	1.90%	1.92%	1.75%	
1987	2.50%	1.97%	2.06%	1.80%	
1988	2.61%	2.00%	1.97%	1.82%	2.08%
1989	2.52%	1.97%	1.94%	1.82%	2.06%
1990	2.57%	2.02%	2.02%	1.82%	2.12%
1991	2.56%	2.01%	2.02%	1.86%	2.11%
1992	2.64%	2.00%	2.00%	1.78%	2.16%
1993	2.62%	2.08%	2.09%	1.89%	2.14%
1994	2.60%	2.11%	2.11%	1.97%	2.16%
1995	2.61%	2.16%	2.15%	1.96%	2.15%

Table 3.6
Household Telecommunications Expenditures by Type of Provider in 1997

	Northeast		Midwest		South		West *		Nation-Wide *	
	Average	Median	Average	Median	Average	Median	Average	Median	Average	Median
Local Exchange Carriers	\$390	\$336	\$389	\$328	\$380	\$328	\$354	\$297	\$379	\$323
Long Distance Carriers	285	169	303	180	308	182	322	206	305	183
Wireless Carriers	87	0	92	0	112	0	103	0	100	0
Total Expenditures	762	599	784	605	800	633	779	592	784	610
Sample Size	4,737		6,250		8,380		5,001		24,368	

Source: Calculated by IAD Staff with data provided by PNR and Associates Inc. and Market Facts Inc., TLC MarketShare Monitor
Annual telephone expenditures are based on monthly households bills for those households with wireline telephone service.

*This sample does not include households from Alaska and Hawaii.

B. Business Expenditures

One of the few sources of information on expenditures for telecommunications services by businesses is contained in the input-output (I-O) accounts of the U.S. economy. The accounts are created by the Bureau of Economic Analysis from the economic censuses conducted every five years by the Bureau of the Census. The accounts are generally released about five years after the economic censuses. The accounts show the production of commodities (goods and services) by each industry, the use of commodities by each industry, the commodity composition of gross domestic product, and the industry distribution of value added.

Table 3.7 shows the most recent I-O account of the use of communications by U.S. industry. Table 3.8 presents the most recent account of the commodities used by the U.S. communications industry.

Table 3.7

1992 Use of Communications Commodities by Industry

I-O Industry Group		Total Industry Output (Millions)	Purchases of Communications Except Radio & Television (Millions)	Communications Purchases as Percent of Industry Output	Communications Purchases by Industry as a Percent of Total Communications Commodities
1	Livestock and livestock products	\$91,504	\$229	0.25%	0.11%
2	Other agricultural products	108,294	250	0.23%	0.12%
3	Forestry and fishery products	9,613	13	0.14%	0.01%
4	Agricultural, forestry, and fishery services	28,251	93	0.33%	0.05%
5 & 6	Metallic ores mining	10,749	26	0.24%	0.01%
7	Coal mining	26,917	36	0.13%	0.02%
8	Crude petroleum and natural gas	105,369	196	0.19%	0.10%
9 & 10	Nonmetallic minerals mining	13,682	40	0.29%	0.02%
11	New construction	456,949	1,770	0.39%	0.86%
12	Repair & maintenance construction	222,381	1,014	0.46%	0.49%
13	Ordinance and accessories	25,760	80	0.31%	0.04%
14	Food and kindred products	408,482	601	0.15%	0.29%
15	Tobacco manufactures	40,146	61	0.15%	0.03%
16	Broad and narrow fabrics, yarn and thread mills	41,646	59	0.14%	0.03%
17	Miscellaneous textile goods and floor coverings	17,580	48	0.27%	0.02%
18	Apparel	69,132	136	0.20%	0.07%
19	Miscellaneous fabricated textile products	19,055	44	0.23%	0.02%
20 & 21	Lumber and wood products	86,865	160	0.18%	0.08%
22 & 23	Furniture and fixtures	42,977	136	0.32%	0.07%
24	Paper & allied products, except containers	99,613	225	0.23%	0.11%
25	Paperboard containers and boxes	31,938	91	0.28%	0.04%
26A	Newspapers and periodicals	56,711	348	0.61%	0.17%
26B	Other printing & publishing	110,564	432	0.39%	0.21%
27A	Industrial and other chemicals	109,880	235	0.21%	0.11%
27B	Agricultural fertilizers and chemicals	17,831	38	0.21%	0.02%
28	Plastics and synthetic materials	48,040	214	0.45%	0.10%
29A	Drugs	62,674	210	0.34%	0.10%
29B	Cleaning and toilet preparations	39,628	123	0.31%	0.06%
30	Paints & allied products	14,198	35	0.25%	0.02%
31	Petroleum refining and related industries	145,709	176	0.12%	0.09%
32	Rubber & miscellaneous plastics products	111,361	308	0.28%	0.15%
33 & 34	Footwear, leather, and leather products	9,368	28	0.30%	0.01%
35	Glass and glass products	17,815	50	0.28%	0.02%
36	Stone and clay products	42,904	146	0.34%	0.07%
37	Primary iron and steel manufacturing	76,565	149	0.19%	0.07%
38	Primary nonferrous metals manufacturing	63,773	127	0.20%	0.06%
39	Metal containers	13,065	21	0.16%	0.01%
40	Heating, plumbing, & fabricated structural metal pi	49,491	151	0.31%	0.07%
41	Screw machine products and stampings	34,703	70	0.20%	0.03%
42	Other fabricated metal products	53,974	180	0.33%	0.09%
43	Engines and turbines	17,044	38	0.22%	0.02%
44 & 45	Farm, construction and mining machinery	32,031	92	0.29%	0.04%
46	Materials handling machinery and equipment	8,152	29	0.36%	0.01%
47	Metalworking machinery and equipment	25,611	112	0.44%	0.05%
48	Special industrial machinery and equipment	20,231	94	0.46%	0.05%

Table 3.7

1992 Use of Communications Commodities by Industry

I-O Industry Group		Total Industry Output (Millions)	Purchases of Communications Except Radio & Television (Millions)	Communications Purchases as Percent of Industry Output	Communications Purchases by Industry as a Percent of Total Communications Commodities
49	General industrial machinery and equipment	29,814	129	0.43%	0.06%
50	Miscellaneous machinery, except electrical	25,071	72	0.29%	0.03%
51	Computer and office equipment	63,924	245	0.38%	0.12%
52	Service industry machinery	26,455	78	0.29%	0.04%
53	Electrical industrial equipment and apparatus	27,809	113	0.41%	0.05%
54	Household appliances	16,636	57	0.34%	0.03%
55	Electric lighting and wiring equipment	19,111	58	0.30%	0.03%
56	Audio, video, and communication equipment	52,155	214	0.41%	0.10%
57	Electronic components and accessories	70,940	254	0.36%	0.12%
58	Miscellaneous electrical machinery and supplies	21,223	56	0.26%	0.03%
59A	Motor vehicles (passenger cars and trucks)	150,738	162	0.11%	0.08%
59B	Truck and bus bodies, trailers, and motor vehicles	80,266	146	0.18%	0.07%
60	Aircraft parts	101,709	225	0.22%	0.11%
61	Other transportation equipment	30,000	66	0.22%	0.03%
62	Scientific and controlling instruments	105,489	528	0.50%	0.26%
63	Ophthalmic and photographic equipment	24,131	114	0.47%	0.06%
64	Miscellaneous manufacturing	41,315	152	0.37%	0.07%
65A	Railroads, and related services; passenger ground	55,754	391	0.70%	0.19%
65B	Motor freight transportation and warehousing	166,953	2,114	1.27%	1.03%
65C	Water transportation	32,440	27	0.08%	0.01%
65D	Air transportation	94,141	1,204	1.28%	0.58%
65E	Pipelines, freight forwarders, and related services	33,616	962	2.86%	0.47%
66	Communications, except radio and TV	208,094	27,769	13.34%	13.48%
67	Radio and television broadcasting	29,359	464	1.58%	0.23%
68A	Electric services (utilities)	170,896	292	0.17%	0.14%
68B	Gas production and distribution (utilities)	93,157	64	0.07%	0.03%
68C	Water and sanitary services	19,182	424	2.21%	0.21%
69A	Wholesale trade	568,970	8,677	1.53%	4.21%
69B	Retail trade	522,519	4,984	0.95%	2.42%
70A	Finance	416,272	5,192	1.25%	2.52%
70B	Insurance	231,097	4,175	1.81%	2.03%
71A	Owner-occupied dwellings	457,250	-	0.00%	0.00%
71B	Real estate and royalties	550,113	3,780	0.69%	1.84%
72A	Hotels and lodging places	59,602	787	1.32%	0.38%
72B	Personal and repair services (except auto)	91,772	1,140	1.24%	0.55%
73A	Computer and data processing services	115,730	2,385	2.06%	1.16%
73B	Legal, engineering, accounting, and related services	256,361	3,019	1.18%	1.47%
73C	Other business and professional services except r	340,445	4,473	1.31%	2.17%
73D	Advertising	29,865	312	1.04%	0.15%
74	Eating and drinking places	280,708	1,088	0.39%	0.53%
75	Automobile repair and services	138,381	1,262	0.91%	0.61%
76	Amusements	121,368	931	0.77%	0.45%
77A	Health services	564,986	4,993	0.88%	2.42%
77B	Educational and social services, and membership	228,332	2,117	0.93%	1.03%
78	Federal government enterprises	60,972	197	0.32%	0.10%

Table 3.7

1992 Use of Communications Commodities by Industry

I-O Industry Group		Total Industry Output (Millions)	Purchases of Communications Except Radio & Television (Millions)	Communications Purchases as Percent of Industry Output	Communications Purchases by Industry as a Percent of Total Communications Commodities
79	State and local government enterprises	92,806	468	0.50%	0.23%
82	General government industry	764,389	-	0.00%	0.00%
84	Household industry	10,087	-	0.00%	0.00%
Total business output		10,830,629			
Total communications sales as factor inputs			95,074	0.88%	46.17%
Personal consumption expenditures		3,551,945	90,397	2.54%	43.89%
Gross private fixed investment		721,814	5,065	0.70%	2.46%
Change in business inventories		1,816	-		
Exports		546,707	3,596	0.66%	1.75%
Imports		(631,637)	-		
Federal government purchases		520,410	3,319	0.64%	1.61%
State and local government purchases		717,111	8,490	1.18%	4.12%
Gross Domestic Product (GDP)		5,428,166	110,867	2.04%	53.83%
Total Commodity Output		10,822,647	205,941	1.90%	100.00%

Source: Benchmark Input-Output Accounts of the U.S. Economy, 1992.
 Survey of Current Business, Vol. 77, No. 11, November 1997, p. 36-82.

Table 3.8
1992 Use of Commodities by the Communications Industry

I-O Commodity Group		Total Commodity Output (Millions)	Sales to Communications Except Radio & Television Industry (Millions)	Percentage of Total Sales to Communications Except Radio & Television Industry	Sales to Communications Except Radio & TV as percent of Communications Industry Output
1	Livestock and livestock products	\$89,375	-	0.00%	0.00%
2	Other agricultural products	104,546	\$1	0.00%	0.00%
3	Forestry and fishery products	11,865	-	0.00%	0.00%
4	Agricultural, forestry, and fishery services	29,805	38	0.13%	0.02%
5 & 6	Metallic ores mining	10,739	-	0.00%	0.00%
7	Coal mining	26,917	-	0.00%	0.00%
8	Crude petroleum and natural gas	97,623	-	0.00%	0.00%
9 & 10	Nonmetallic minerals mining	12,283	-	0.00%	0.00%
11	New construction	456,949	-	0.00%	0.00%
12	Repair & maintenance construction	222,381	8,177	3.68%	3.93%
13	Ordinance and accessories	22,217	-	0.00%	0.00%
14	Food and kindred products	408,757	-	0.00%	0.00%
15	Tobacco manufactures	40,147	-	0.00%	0.00%
16	Broad and narrow fabrics, yarn and thread mills	37,528	-	0.00%	0.00%
17	Miscellaneous textile goods and floor coverings	17,983	1	0.01%	0.00%
18	Apparel	68,637	92	0.13%	0.04%
19	Miscellaneous fabricated textile products	21,021	3	0.01%	0.00%
20 & 21	Lumber and wood products	87,127	18	0.02%	0.01%
22 & 23	Furniture and fixtures	42,849	-	0.00%	0.00%
24	Paper & allied products, except containers	98,497	181	0.18%	0.09%
25	Paperboard containers and boxes	31,743	85	0.27%	0.04%
26A	Newspapers and periodicals	19,895	83	0.42%	0.04%
26B	Other printing & publishing	81,202	785	0.97%	0.38%
27A	Industrial and other chemicals	113,359	16	0.01%	0.01%
27B	Agricultural fertilizers and chemicals	17,850	-	0.00%	0.00%
28	Plastics and synthetic materials	50,944	-	0.00%	0.00%
29A	Drugs	62,321	5	0.01%	0.00%
29B	Cleaning and toilet preparations	40,557	24	0.06%	0.01%
30	Paints & allied products	14,379	56	0.39%	0.03%
31	Petroleum refining and related industries	149,831	210	0.14%	0.10%
32	Rubber & miscellaneous plastics products	111,813	442	0.40%	0.21%
33 & 34	Footwear, leather, and leather products	9,538	2	0.02%	0.00%
35	Glass and glass products	17,981	18	0.10%	0.01%
36	Stone and clay products	42,291	-	0.00%	0.00%
37	Primary iron and steel manufacturing	73,922	-	0.00%	0.00%
38	Primary nonferrous metals manufacturing	64,813	16	0.02%	0.01%
39	Metal containers	13,238	-	0.00%	0.00%
40	Heating, plumbing, & fabricated structural metal products	49,050	-	0.00%	0.00%
41	Screw machine products and stampings	34,564	365	1.06%	0.18%
42	Other fabricated metal products	56,518	244	0.43%	0.12%
43	Engines and turbines	17,895	356	1.99%	0.17%
44 & 45	Farm, construction and mining machinery	30,946	-	0.00%	0.00%
46	Materials handling machinery and equipment	8,290	-	0.00%	0.00%
47	Metalworking machinery and equipment	27,046	5	0.02%	0.00%
48	Special industrial machinery and equipment	20,218	-	0.00%	0.00%
49	General industrial machinery and equipment	29,678	424	1.43%	0.20%
50	Miscellaneous machinery, except electrical	24,946	17	0.07%	0.01%
51	Computer and office equipment	62,088	322	0.52%	0.15%
52	Service industry machinery	25,801	3	0.01%	0.00%
53	Electrical industrial equipment and apparatus	28,574	348	1.22%	0.17%
54	Household appliances	16,833	-	0.00%	0.00%
55	Electric lighting and wiring equipment	19,055	66	0.35%	0.03%
56	Audio, video, and communication equipment	50,981	3,464	6.79%	1.66%

Table 3.8
1992 Use of Commodities by the Communications Industry

I-O Commodity Group		Total Commodity Output (Millions)	Sales to Communications Except Radio & Television Industry (Millions)	Percentage of Total Sales to Communications Except Radio & Television Industry	Sales to Communications Except Radio & TV as percent of Communications Industry Output
57	Electronic components and accessories	73,298	2,823	3.85%	1.36%
58	Miscellaneous electrical machinery and supplies	21,103	266	1.26%	0.13%
59A	Motor vehicles (passenger cars and trucks)	149,684	-	0.00%	0.00%
59B	Truck and bus bodies, trailers, and motor vehicles parts	81,258	31	0.04%	0.01%
60	Aircraft parts	102,154	-	0.00%	0.00%
61	Other transportation equipment	29,907	-	0.00%	0.00%
62	Scientific and controlling instruments	107,915	24	0.02%	0.01%
63	Ophthalmic and photographic equipment	22,745	83	0.36%	0.04%
64	Miscellaneous manufacturing	39,450	147	0.37%	0.07%
65A	Railroads, and related services; passenger ground transportation	62,058	156	0.25%	0.07%
65B	Motor freight transportation and warehousing	157,110	248	0.16%	0.12%
65C	Water transportation	34,347	10	0.03%	0.00%
65D	Air transportation	98,819	673	0.68%	0.32%
65E	Pipelines, freight forwarders, and related services	28,966	12	0.04%	0.01%
66	Communications, except radio and TV	205,941	27,769	13.48%	13.34%
67	Radio and television broadcasting	2,674	81	3.03%	0.04%
68A	Electric services (utilities)	195,695	810	0.41%	0.39%
68B	Gas production and distribution (utilities)	96,155	70	0.07%	0.03%
68C	Water and sanitary services	50,265	228	0.45%	0.11%
69A	Wholesale trade	568,970	1,798	0.32%	0.86%
69B	Retail trade	526,178	69	0.01%	0.03%
70A	Finance	390,774	2,218	0.57%	1.07%
70B	Insurance	231,654	338	0.15%	0.16%
71A	Owner-occupied dwellings	457,250	-	0.00%	0.00%
71B	Real estate and royalties	559,738	3,340	0.60%	1.61%
72A	Hotels and lodging places	58,936	631	1.07%	0.30%
72B	Personal and repair services (except auto)	92,016	1,444	1.57%	0.69%
73A	Computer and data processing services	118,038	2,845	2.41%	1.37%
73B	Legal, engineering, accounting, and related services	252,597	6,160	2.44%	2.96%
73C	Other business and professional services except medicinal	332,385	4,008	1.21%	1.93%
73D	Advertising	138,530	3,286	2.37%	1.58%
74	Eating and drinking places	282,017	745	0.26%	0.36%
75	Automobile repair and services	164,408	1,142	0.69%	0.55%
76	Amusements	122,937	2,818	2.29%	1.35%
77A	Health services	564,607	-	0.00%	0.00%
77B	Educational and social services, and membership organizations	227,631	312	0.14%	0.15%
78	Federal government enterprises	50,200	658	1.31%	0.32%
79	State and local government enterprises	30,162	39	0.13%	0.02%
80	Noncomparable imports	-	6,384	-	3.07%
81	Scrap, used and secondhand goods	2,175	-	0.00%	0.00%
82	General government industry	764,389	-	0.00%	0.00%
84	Household industry	10,087	-	0.00%	0.00%
	Total Sales	10,830,629	87,533	0.81%	42.06%
	Value added	\$6,233,905	\$120,561	1.93%	57.94%

Source: Benchmark Input-Output Accounts of the U.S. Economy, 1992.
Survey of Current Business, Vol. 77, No. 11, November 1997, p. 36-82.

C. Additional Sources of Information on Expenditures for Telephone Service

Additional information from the Consumer Expenditure Survey is available from the Bureau of Labor Statistics at stats.bls.gov on the Internet.

The address of PNR Associates, providers of the TLC MarketShare Monitor database, is 101 Greenwood Avenue, Suite 502, Jenkinstown, PA 19046. They can also be contacted by phone at (215) 886-9200, and by e-mail at info@pnr.com.

Additional information on the input-output accounts of the U.S. economy is available from the Bureau of Economic Analysis at www.bea.doc.gov on the Internet.

Concordance between I-O industry codes and 1987 standard industrial classification (SIC) codes can be found in Appendix A of "Benchmark Input-Output Accounts for the U.S. Economy, 1992" in Survey of Current Business, November, 1997.

The Bureau of the Census publishes the Annual Survey of Communication Services that also provides some estimates of household and business expenditures on telephone service. This information can be found at www.census.gov on the Internet.

IV. Price Indices

The U.S. Department of Labor's Bureau of Labor Statistics (BLS) calculates telephone service price indices as part of two major programs. The Consumer Price Index (CPI) program publishes indices based on the amount of money that residential customers in urban areas pay for telephone service. The Producer Price Index (PPI) program publishes indices based on the amount of money that companies receive for providing telephone service. Unlike the CPI, the PPI indices cover business as well as residential telephone service.

A. Consumer Price Indices

The Consumer Price Index (CPI) is the nation's most widely recognized measure of retail price changes. It is published monthly by the BLS, and measures the prices all urban consumers pay for most goods and services. BLS defines urban areas as Metropolitan Statistical Areas (MSAs) and small cities with populations greater than 2500. About 80 percent of the U.S. population lives in urban areas.

The BLS has published an index for telephone services since 1935. In 1978 it began publishing an index for local telephone service, interstate toll service, and intrastate toll service. In 1998 it added an index for cellular telephone services. At that time, the BLS also revised the telephone services index to include information from the cellular index and created an aggregate index by combining the interstate and intrastate toll service indices into an index for long distance services. Telephone service price changes are also included in the CPI index for all goods and services, as well as in other broad indices. Based on sample weight, telephone prices account for roughly 2% of the CPI for all goods and services.

Table 4.1 shows the annual changes in the CPI indices since 1980. In addition to showing the nominal changes in telephone prices, the table shows the changes in telephone prices after adjusting for the impact of inflation, as measured by the CPI for all goods and services. Chart 1 illustrates the changes in toll rates since the AT&T divestiture in 1984. Rates for both interstate and intrastate toll calls have fallen since 1984. Chart 2 adjusts the price indices for interstate and intrastate toll service for the impacts of inflation. Relative to the prices of other goods and services, long distance rates have fallen substantially. Table 4.2 presents the monthly consumer price indices since 1972, while annual index for telephone services since 1935 can be found in appendix A.

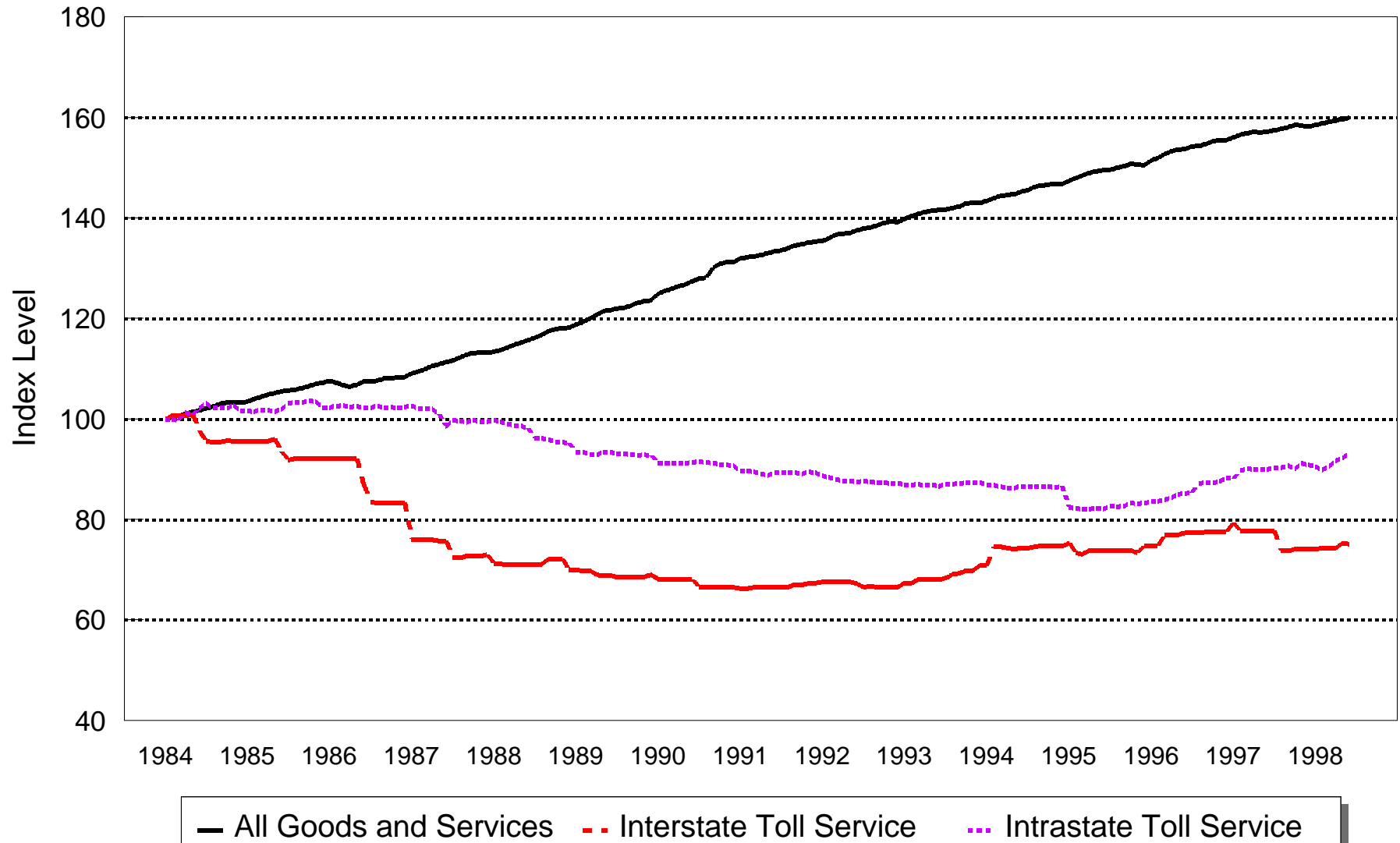
Table 4.3 shows three newly introduced consumer price indices first published in 1998. A long distance service index has been created using the existing information collected for the interstate and intrastate toll indices. An index for cellular telephone service has been created and the previous "telephone services" index has been replaced with a new measure that includes the cellular price index. Since the previous index for telephone services did not include cellular services, the two series are not strictly comparable. Users should exercise caution since current price trends in the cellular market deviate significantly from those in the wireline telephony market.

Table 4.1

Changes in the Consumer Price Indices Since 1980
 (% change from December of the previous year through December of the year shown)

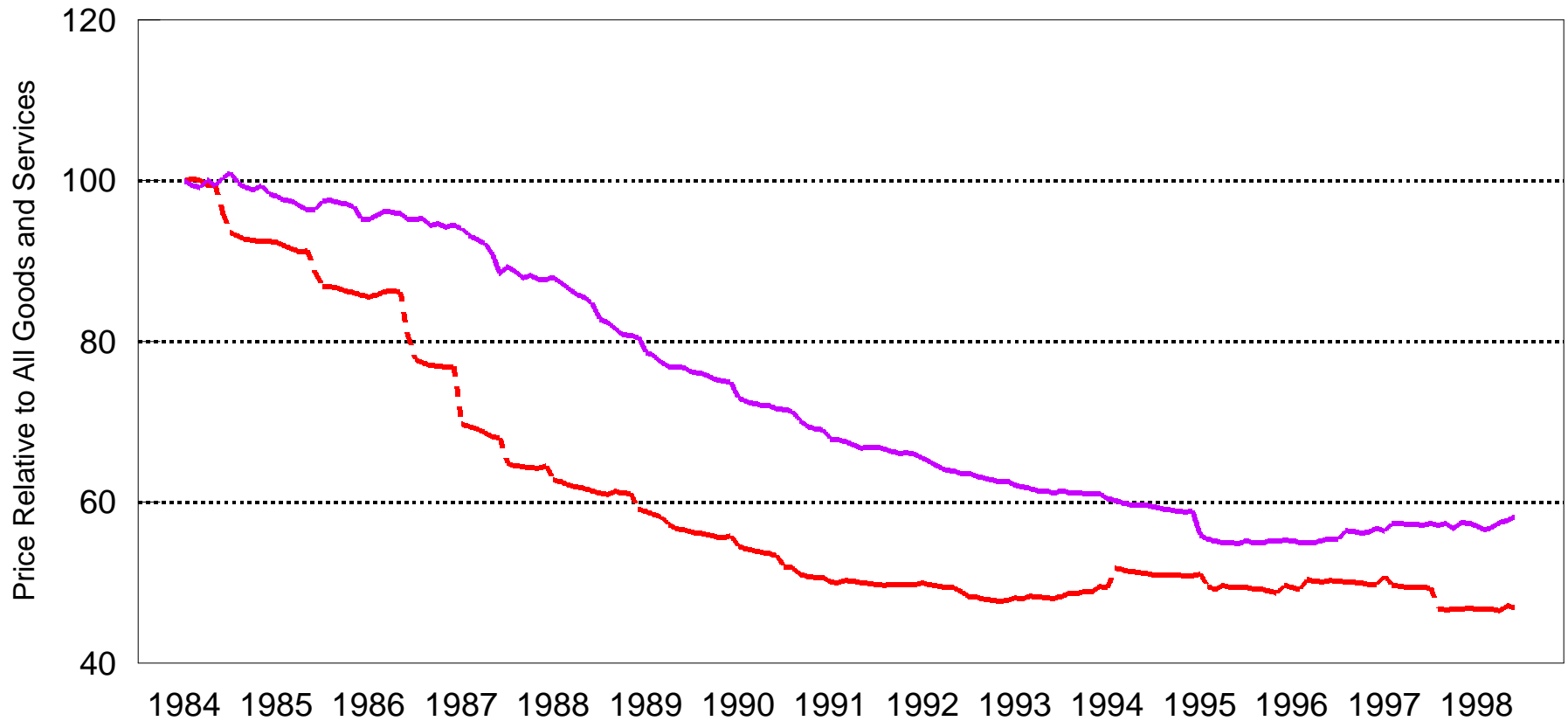
	All Goods and Services	Telephone Services		Local Services		Interstate Toll Service		Intrastate Toll Service	
			Inflation Adjusted		Inflation Adjusted		Inflation Adjusted		Inflation Adjusted
1980	12.5%	4.6%	-7.1%	7.0%	-4.9%	3.4%	-8.1%	-0.6%	-11.6%
1981	8.9%	11.7%	2.5%	12.6%	3.3%	14.6%	5.2%	6.2%	-2.5%
1982	3.8%	7.2%	3.3%	10.8%	6.7%	2.6%	-1.2%	4.2%	0.3%
1983	3.8%	3.6%	-0.2%	3.1%	-0.6%	1.5%	-2.2%	7.4%	3.4%
1984	3.9%	9.2%	5.1%	17.2%	12.7%	-4.3%	-8.0%	3.6%	-0.3%
1985	3.8%	4.7%	0.8%	8.9%	5.0%	-3.7%	-7.2%	0.6%	-3.1%
1986	1.1%	2.7%	1.6%	7.1%	5.9%	-9.4%	-10.4%	0.3%	-0.8%
1987	4.4%	-1.3%	-5.5%	3.3%	-1.0%	-12.4%	-16.1%	-3.0%	-7.1%
1988	4.4%	1.3%	-3.0%	4.5%	0.1%	-4.2%	-8.2%	-4.2%	-8.3%
1989	4.6%	-0.3%	-4.7%	0.6%	-3.9%	-1.3%	-5.7%	-2.6%	-6.9%
1990	6.1%	-0.4%	-6.2%	1.0%	-4.8%	-3.7%	-9.3%	-2.2%	-7.8%
1991	3.1%	3.5%	0.4%	5.1%	2.0%	1.3%	-1.7%	-1.5%	-4.4%
1992	2.9%	-0.3%	-3.1%	0.5%	-2.4%	-1.3%	-4.1%	-2.4%	-5.1%
1993	2.7%	1.8%	-0.9%	1.0%	-1.7%	6.5%	3.7%	0.2%	-2.5%
1994	2.7%	0.7%	-2.0%	-0.3%	-2.9%	5.4%	2.7%	-1.0%	-3.6%
1995	2.5%	1.2%	-1.3%	2.6%	0.0%	0.1%	-2.3%	-3.8%	-6.2%
1996	3.3%	2.1%	-1.2%	0.9%	-2.4%	3.7%	0.4%	6.1%	2.7%
1997	1.7%	0.2%	-1.4%	1.0%	-0.6%	-4.3%	-5.9%	2.8%	1.1%

Consumer Price Indices



Consumer Price Indices

Adjusted for Inflation



-- Interstate Toll Service — Intrastate Toll Service

Adjusted using the CPI for all goods and services

Table 4.2
Consumer Price Indices (1982 - 1984 = 100)

		All Goods & Services	Telephone Services	Local Services	Interstate Toll Service	Intrastate Toll Service
BLS Series Identifier		CUUR0000SA0	CUUR0000SE270A	CUUR0000SEED01	CUUR0000SS27051	CUUR0000SS27061
1972	January	41.1	63.3			
	February	41.3	64.4			
	March	41.4	64.4			
	April	41.5	64.5			
	May	41.6	64.7			
	June	41.7	65.1			
	July	41.9	65.2			
	August	42.0	65.4			
	September	42.1	65.6			
	October	42.3	65.8			
	November	42.4	65.8			
	December	42.5	65.9			
1973	January	42.6	65.6			
	February	42.9	65.9			
	March	43.3	66.0			
	April	43.6	66.2			
	May	43.9	66.2			
	June	44.2	66.4			
	July	44.3	66.4			
	August	45.1	67.0			
	September	45.2	67.1			
	October	45.6	67.3			
	November	45.9	67.3			
	December	46.2	69.0			
1974	January	46.6	69.2			
	February	47.2	69.3			
	March	47.8	69.3			
	April	48.0	69.4			
	May	48.6	69.4			
	June	49.0	69.4			
	July	49.4	69.4			
	August	50.0	69.4			
	September	50.6	69.9			
	October	51.1	69.9			
	November	51.5	69.9			
	December	51.9	69.9			
1975	January	52.1	69.8			
	February	52.5	70.1			
	March	52.7	70.7			
	April	52.9	70.9			
	May	53.2	71.2			

Table 4.2
Consumer Price Indices (1982 - 1984 = 100)

		All Goods & Services	Telephone Services	Local Services	Interstate Toll Service	Intrastate Toll Service
BLS Series Identifier		CUUR0000SA0	CUUR0000SE270A	CUUR0000SEED01	CUUR0000SS27051	CUUR0000SS27061
1976	June	53.6	71.8			
	July	54.2	71.9			
	August	54.3	72.2			
	September	54.6	72.4			
	October	54.9	72.6			
	November	55.3	73.7			
	December	55.5	73.8			
	January	55.6	73.3			
	February	55.8	73.4			
	March	55.9	73.8			
	April	56.1	73.8			
	May	56.5	73.9			
1977	June	56.8	74.0			
	July	57.1	74.1			
	August	57.4	75.0			
	September	57.6	74.9			
	October	57.9	75.0			
	November	58.0	75.3			
	December	58.2	75.3			
	January	58.5	74.5			
	February	59.1	74.7			
	March	59.5	74.8			
	April	60.0	75.0			
	May	60.3	75.0			
June	60.7	75.1				
1978	July	61.0	75.1			
	August	61.2	75.3			
	September	61.4	75.4			
	October	61.6	75.5			
	November	61.9	75.6			
	December	62.1	75.7	69.2	83.4	85.4
	January	62.5	75.7	69.2	82.9	85.5
	February	62.9	75.8	69.8	82.7	84.9
	March	63.4	75.8	69.7	82.7	85.1
	April	63.9	76.0	70.0	82.6	85.6
	May	64.5	76.0	69.9	82.6	85.5
	June	65.2	76.0	69.9	82.7	85.5
July	65.7	76.1	70.1	82.7	85.5	
August	66.0	76.3	70.4	82.7	85.6	
September	66.5	76.3	70.5	82.7	85.7	
October	67.1	76.2	70.1	82.7	85.6	

Table 4.2
Consumer Price Indices (1982 - 1984 = 100)

		All Goods & Services	Telephone Services	Local Services	Interstate Toll Service	Intrastate Toll Service
BLS Series Identifier		CUUR0000SA0	CUUR0000SE270A	CUUR0000SEED01	CUUR0000SS27051	CUUR0000SS27061
	November	67.4	76.2	70.2	82.7	85.6
	December	67.7	76.4	70.2	82.7	86.5
1979	January	68.3	75.9	69.6	82.3	86.1
	February	69.1	75.7	69.5	82.1	86.0
	March	69.8	75.7	69.4	82.0	86.0
	April	70.6	75.7	69.4	82.0	86.0
	May	71.5	75.7	69.6	82.0	86.0
	June	72.3	75.6	69.2	82.1	86.4
	July	73.1	75.7	69.2	82.1	86.5
	August	73.8	75.9	69.5	82.2	86.6
	September	74.6	75.8	69.4	82.1	86.6
	October	75.2	75.1	68.3	82.1	86.8
	November	75.9	76.4	70.4	82.1	86.6
	December	76.7	76.9	71.4	82.1	86.6
1980	January	77.8	76.4	71.0	81.5	86.0
	February	78.9	76.1	71.0	81.2	84.3
	March	80.0	76.3	71.4	81.2	84.3
	April	81.0	76.4	71.6	81.2	84.5
	May	81.8	76.8	72.1	81.2	84.9
	June	82.7	77.6	72.8	83.0	85.0
	July	82.7	78.1	72.9	84.7	84.9
	August	83.3	78.2	72.9	85.0	85.3
	September	84.0	78.5	73.3	85.2	85.5
	October	84.8	78.8	73.7	85.2	85.5
	November	85.5	79.4	74.9	84.8	85.9
	December	86.3	80.4	76.4	84.9	86.1
1981	January	87.0	80.8	77.2	84.9	86.2
	February	87.9	81.6	78.5	84.9	86.4
	March	88.5	81.6	78.6	84.9	86.4
	April	89.1	82.1	79.4	84.9	86.6
	May	89.8	82.5	79.9	84.9	86.8
	June	90.6	82.2	79.5	84.9	86.6
	July	91.6	84.3	80.7	91.0	86.6
	August	92.3	85.5	81.1	94.6	86.9
	September	93.2	87.3	83.3	95.8	88.7
	October	93.4	88.4	84.0	97.3	90.1
	November	93.7	89.1	85.4	97.3	89.9
	December	94.0	89.8	86.0	97.3	91.4
1982	January	94.3	90.0	85.8	97.4	93.2
	February	94.6	90.4	86.7	97.3	93.1
	March	94.5	90.8	86.9	98.2	93.0

Table 4.2
Consumer Price Indices (1982 - 1984 = 100)

		All Goods & Services	Telephone Services	Local Services	Interstate Toll Service	Intrastate Toll Service	
BLS Series Identifier		CUUR0000SA0	CUUR0000SE270A	CUUR0000SEED01	CUUR0000SS27051	CUUR0000SS27061	
	April	94.9	92.1	88.5	100.0	93.0	
	May	95.8	92.6	89.2	100.1	93.3	
	June	97.0	93.5	90.7	99.8	93.7	
	July	97.5	93.8	91.2	99.8	93.9	
	August	97.7	94.0	91.6	99.8	93.9	
	September	97.9	94.8	92.9	99.8	94.0	
	October	98.2	95.2	93.5	99.8	94.2	
	November	98.0	95.4	93.6	99.8	94.8	
	December	97.6	96.3	95.3	99.8	95.2	
	1983	January	97.8	98.1	97.2	100.9	97.3
		February	97.9	98.3	96.8	101.6	98.9
		March	97.9	98.5	97.0	101.6	99.3
April		98.6	98.4	96.8	101.6	99.5	
May		99.2	98.9	97.5	101.6	100.0	
June		99.5	99.3	98.1	101.6	100.2	
July		99.9	99.5	98.1	101.7	100.9	
August		100.2	99.6	98.3	101.7	101.0	
September		100.7	99.9	98.6	101.7	101.2	
October		101.0	99.7	98.3	101.4	101.6	
November		101.2	100.4	99.5	101.4	102.3	
December		101.3	99.8	98.3	101.3	102.2	
1984	January	101.9	105.0	106.7	101.3	104.2	
	February	102.4	107.0	110.0	102.1	104.2	
	March	102.6	106.4	109.1	102.1	104.1	
	April	103.1	106.7	109.1	102.0	105.6	
	May	103.4	106.9	109.5	102.3	105.1	
	June	103.7	107.1	110.7	98.9	106.5	
	July	104.1	107.7	112.3	96.9	107.5	
	August	104.5	107.9	112.9	96.8	106.6	
	September	105.0	108.7	114.3	96.8	106.5	
	October	105.3	108.8	114.5	97.0	106.5	
	November	105.3	109.4	115.4	96.9	107.1	
	December	105.3	109.0	115.2	96.9	105.9	
1985	January	105.5	109.3	115.6	96.9	105.9	
	February	106.0	108.3	113.8	96.9	105.8	
	March	106.4	109.5	116.0	96.9	106.1	
	April	106.9	109.4	115.8	96.9	106.0	
	May	107.3	109.6	116.0	97.4	105.8	
	June	107.6	112.1	121.3	94.7	106.2	
	July	107.8	112.9	123.0	93.1	107.5	
	August	108.0	113.6	123.9	93.3	107.8	

Table 4.2
Consumer Price Indices (1982 - 1984 = 100)

		All Goods & Services	Telephone Services	Local Services	Interstate Toll Service	Intrastate Toll Service
BLS Series Identifier		CUUR0000SA0	CUUR0000SE270A	CUUR0000SEED01	CUUR0000SS27051	CUUR0000SS27061
	September	108.3	113.7	124.2	93.3	107.8
	October	108.7	113.8	124.3	93.3	108.0
	November	109.0	114.2	125.2	93.3	107.9
	December	109.3	114.1	125.5	93.3	106.5
1986	January	109.6	114.6	126.2	93.3	106.7
	February	109.3	114.8	126.4	93.3	107.0
	March	108.8	115.3	127.2	93.3	107.1
	April	108.6	116.5	129.5	93.3	106.8
	May	108.9	116.5	129.5	93.3	106.9
	June	109.5	118.7	135.6	88.0	106.7
	July	109.5	118.7	137.0	84.7	106.7
	August	109.7	118.8	137.2	84.4	107.0
	September	110.2	118.3	136.5	84.4	106.5
	October	110.3	118.9	137.5	84.4	106.8
	November	110.4	117.6	135.1	84.4	106.5
	December	110.5	117.2	134.4	84.5	106.8
1987	January	111.2	116.6	137.6	77.1	107.0
	February	111.6	116.4	137.5	77.1	106.4
	March	112.1	116.4	137.4	77.1	106.4
	April	112.7	116.7	138.2	77.0	106.3
	May	113.1	116.4	138.1	76.7	105.2
	June	113.5	115.6	137.5	76.7	102.7
	July	113.8	116.6	141.0	73.4	104.0
	August	114.4	117.0	141.9	73.4	103.8
	September	115.0	116.6	140.9	73.7	103.5
	October	115.3	117.0	141.3	73.7	104.1
	November	115.4	116.9	141.4	73.7	103.6
	December	115.4	115.7	138.9	74.0	103.6
1988	January	115.7	115.8	139.9	72.2	104.1
	February	116.0	116.6	141.6	72.2	103.6
	March	116.5	116.2	141.1	72.0	103.2
	April	117.1	116.6	142.0	72.1	102.9
	May	117.5	116.6	142.0	72.1	102.8
	June	118.0	115.8	140.8	72.1	102.3
	July	118.5	115.8	141.4	72.1	100.3
	August	119.0	114.8	139.4	72.1	100.3
	September	119.8	115.6	140.6	73.1	100.0
	October	120.2	115.8	141.1	73.1	99.4
	November	120.3	115.7	140.9	73.1	99.4
	December	120.5	117.2	145.2	70.9	99.2
1989	January	121.1	116.8	145.0	70.9	97.4

Table 4.2
Consumer Price Indices (1982 - 1984 = 100)

		All Goods & Services	Telephone Services	Local Services	Interstate Toll Service	Intrastate Toll Service
BLS Series Identifier		CUUR0000SA0	CUUR0000SE270A	CUUR0000SEED01	CUUR0000SS27051	CUUR0000SS27061
	February	121.6	116.6	144.7	70.8	97.4
	March	122.3	116.2	144.1	70.8	96.9
	April	123.1	117.2	146.6	70.0	96.8
	May	123.8	117.9	147.8	69.8	97.4
	June	124.1	117.6	147.2	69.8	97.4
	July	124.4	117.8	147.8	69.6	97.0
	August	124.6	117.7	147.6	69.6	97.0
	September	125.0	117.8	147.9	69.6	96.9
	October	125.6	116.9	146.2	69.6	96.7
	November	125.9	117.2	146.8	69.6	96.8
	December	126.1	116.9	146.0	70.0	96.6
	1990	January	127.4	117.6	148.4	69.1
February		128.0	117.9	149.0	69.0	95.1
March		128.4	118.2	149.7	69.0	95.0
April		128.9	118.4	150.0	69.0	95.1
May		129.2	118.0	149.2	69.0	95.2
June		129.9	118.0	149.2	69.0	95.3
July		130.4	115.5	145.4	67.4	95.4
August		130.6	117.7	149.7	67.4	95.3
September		132.7	117.9	150.1	67.4	95.2
October		133.5	118.6	151.4	67.4	94.8
November		133.8	118.6	151.4	67.4	94.7
December		133.8	116.4	147.5	67.4	94.5
1991	January	134.6	119.3	153.4	67.1	93.4
	February	134.8	119.2	153.2	67.1	93.4
	March	135.0	119.3	153.2	67.5	93.3
	April	135.2	119.3	153.4	67.5	92.9
	May	135.6	119.3	153.6	67.5	92.6
	June	136.0	119.5	153.6	67.5	93.1
	July	136.2	119.6	153.8	67.5	93.2
	August	136.6	119.7	154.1	67.5	93.2
	September	137.2	119.9	154.2	68.0	93.1
	October	137.4	120.0	154.5	68.0	92.9
	November	137.8	120.4	155.0	68.2	93.3
	December	137.9	120.5	155.0	68.3	93.1
1992	January	138.1	120.8	155.8	68.6	92.5
	February	138.6	120.8	155.8	68.6	92.2
	March	139.3	120.9	156.2	68.6	91.8
	April	139.5	120.8	156.2	68.6	91.4
	May	139.7	120.8	156.2	68.6	91.4
	June	140.2	119.9	154.7	68.2	91.2

Table 4.2
Consumer Price Indices (1982 - 1984 = 100)

		All Goods & Services	Telephone Services	Local Services	Interstate Toll Service	Intrastate Toll Service
BLS Series Identifier		CUUR0000SA0	CUUR0000SE270A	CUUR0000SEED01	CUUR0000SS27051	CUUR0000SS27061
	July	140.5	120.3	155.7	67.5	91.4
	August	140.9	120.1	155.4	67.6	91.2
	September	141.3	120.0	155.3	67.4	91.1
	October	141.8	120.0	155.4	67.4	91.0
	November	142.0	120.0	155.4	67.4	90.9
	December	141.9	120.1	155.7	67.4	90.9
1993	January	142.6	120.7	156.4	68.3	90.6
	February	143.1	120.7	156.3	68.3	90.6
	March	143.6	120.9	156.3	69.0	90.7
	April	144.0	120.3	155.3	69.0	90.5
	May	144.2	120.9	156.3	69.0	90.6
	June	144.4	120.7	156.0	69.0	90.3
	July	144.4	121.0	156.2	69.3	90.7
	August	144.8	121.2	156.3	70.1	90.7
	September	145.1	121.6	156.7	70.3	90.9
	October	145.7	121.8	156.8	70.8	91.0
	November	145.8	121.9	157.0	70.8	91.0
	December	145.8	122.3	157.2	71.8	91.1
1994	January	146.2	122.0	156.8	71.8	90.5
	February	146.7	123.3	156.9	75.6	90.5
	March	147.2	123.2	156.9	75.6	90.2
	April	147.4	123.0	156.8	75.3	90.0
	May	147.5	123.1	157.0	75.2	90.0
	June	148.0	123.3	157.2	75.3	90.3
	July	148.4	123.2	157.1	75.3	90.3
	August	149.0	123.3	157.1	75.6	90.3
	September	149.4	123.3	156.9	75.7	90.3
	October	149.5	123.2	156.9	75.7	90.2
	November	149.7	123.1	156.6	75.7	90.1
	December	149.7	123.1	156.7	75.7	90.2
1995	January	150.3	124.7	160.9	76.3	85.9
	February	150.9	123.8	160.4	74.3	85.6
	March	151.4	123.6	160.1	74.1	85.5
	April	151.9	123.7	160.0	74.9	85.5
	May	152.2	123.5	159.5	74.9	85.7
	June	152.5	124.0	160.5	74.9	85.5
	July	152.5	124.1	160.4	74.9	86.2
	August	152.9	123.9	160.2	74.9	86.0
	September	153.2	124.1	160.5	74.9	86.1
	October	153.7	124.2	160.5	74.9	86.8
	November	153.6	124.1	160.6	74.4	86.7

Table 4.2
Consumer Price Indices (1982 - 1984 = 100)

		All Goods & Services	Telephone Services	Local Services	Interstate Toll Service	Intrastate Toll Service
BLS Series Identifier		CUUR0000SA0	CUUR0000SE270A	CUUR0000SEED01	CUUR0000SS27051	CUUR0000SS27061
1996	December	153.5	124.6	160.7	75.8	86.8
	January	154.4	124.7	160.6	75.8	87.2
	February	154.9	124.7	160.7	75.8	87.2
	March	155.7	125.4	160.6	78.0	87.5
	April	156.3	123.5	156.8	78.0	88.0
	May	156.6	125.4	160.3	78.0	88.6
	June	156.7	126.0	161.0	78.4	88.9
	July	157.2	126.2	161.3	78.4	89.1
	August	157.3	126.5	161.3	78.4	90.9
	September	157.8	126.7	161.4	78.6	91.0
	October	158.3	126.9	161.9	78.6	91.0
	November	158.6	127.0	161.9	78.6	91.3
December	158.6	127.2	162.1	78.6	92.1	
1997	January	159.1	127.6	161.7	80.4	91.9
	February	159.6	127.6	162.3	78.8	93.6
	March	160.0	127.9	162.6	78.8	93.9
	April	160.2	128.0	162.7	78.8	93.8
	May	160.1	128.0	162.9	78.8	93.8
	June	160.3	128.3	163.5	78.8	93.8
	July	160.5	128.3	163.4	78.7	94.1
	August	160.8	127.1	163.4	74.8	94.1
	September	161.2	127.1	163.3	74.8	94.5
	October	161.6	127.3	163.7	75.1	93.9
	November	161.5	127.6	163.8	75.1	95.0
	December	161.3	127.5	163.8	75.2	94.7
1998	January	161.6	(discontinued)	163.8	75.2	94.3
	February	161.9		164.4	75.3	93.7
	March	162.2		165.6	75.3	94.4
	April	162.5		165.6	75.3	95.6
	May	162.8		165.7	76.3	96.2
	June	163.0		166.1	76.1	97.1

Table 4.3

New Consumer Price Indices (December 1997 = 100)

		Telephone Services	Long Distance Charges	Cellular Telephone Services
BLS Series Identifier		CUUR0000SEED	CUUR0000SEED02	CUUR0000SEED03
	December	100.0	100.0	100.0
1998	January	99.9	99.8	99.0
	February	100.0	99.7	98.1
	March	100.4	99.9	97.4
	April	100.5	100.1	96.4
	May	101.1	101.3	96.2
	June	101.4	101.7	94.4

B. Producer Price Indices

The Producer Price Index (PPI) is a statistical series established by the BLS to measure changes in the prices charged by producers. The index was formerly known as the Wholesale Price Index, and was first published in 1902. The BLS began publishing indices for telecommunications products in 1972. These indices were wholly redesigned in mid-1995. Consequently, the current indices are not comparable to indices prior to 1995. In addition to 39 current indices of telecommunications products, the BLS publishes overall indices by stage of processing -- finished goods, intermediate goods, and crude materials for further processing.

Since the PPI indexes the prices received by producers, it includes the prices paid by businesses as well as consumers. The PPI does not include taxes or other government surcharges. Additionally, it is subject to substantial fluctuations from month to month and each index is revised four months following its release. Consequently, analysts should use caution when using the PPI to measure short-run trends in telecommunications prices. It is suggested that users consider constructing a three to four month moving average of the series to improve the analysis of trends. Table 4.4 presents the monthly PPI indices for the period since their revision in mid-1995, while table 4.5 contains the discontinued PPI indices for the years back to 1972.

Table 4.4
Producer Price Indices
(June 1997 = 100)

	Finished Goods	Telephone Communications, except Radiotelephone	Local Service, except Private Lines	Residence Local Service	Business Local Service	Coin Local Service	Other Local Service	Directory Assistance
BLS Series Identifier	wpusop3000	pcu4813#	pcu4813#1	pcu4813#111	pcu4813#112	pcu4813#113	pcu4813#114	pcu4813#11401
1995 June	128.2	100.0	100.0	100.0	100.0	100.0	100.0	100.0
July	128.2	102.8	100.0	100.0	100.0	100.0	100.0	100.0
August	128.1	100.7	100.0	100.0	100.0	100.0	100.0	100.0
September	127.9	100.6	100.1	100.0	100.2	100.6	100.0	100.0
October	128.7	100.4	100.0	99.8	100.2	100.6	100.0	100.0
November	128.7	99.6	100.0	99.8	100.2	100.6	100.0	100.0
December	129.1	99.6	100.0	99.8	100.2	100.6	100.0	100.0
1996 January	129.4	99.3	100.0	99.8	100.1	100.6	100.0	100.0
February	129.4	99.6	100.0	99.8	100.2	100.6	100.0	100.0
March	130.1	99.5	100.1	99.8	100.2	101.9	100.0	100.0
April	130.6	99.7	100.1	99.8	100.2	101.9	100.0	100.0
May	131.1	99.5	100.1	99.8	100.2	101.9	100.0	100.0
June	131.7	99.9	100.2	100.0	100.2	101.9	100.0	100.0
July	131.5	100.3	100.3	100.0	100.4	102.0	100.0	100.0
August	131.9	100.6	100.4	100.0	100.5	102.0	100.0	100.0
September	131.8	100.5	100.4	100.0	100.5	102.0	100.0	100.0
October	132.7	100.4	100.4	100.0	100.5	102.0	100.0	100.0
November	132.6	100.1	100.4	100.0	100.5	102.0	100.0	100.0
December	132.7	99.5	100.4	100.0	100.5	102.0	100.0	100.0
1997 January	132.6	100.5	100.4	100.0	100.5	102.0	100.0	100.0
February	132.2	99.8	100.4	100.0	100.5	102.0	100.0	100.0
March	132.1	99.0	100.3	100.0	100.5	102.0	100.0	100.0
April	131.6	99.2	100.4	100.0	100.6	102.0	100.0	100.0
May	131.6	99.9	100.5	100.2	100.7	102.1	100.0	100.0
June	131.6	100.4	100.5	100.2	100.7	102.1	100.0	100.0
July	131.3	100.1	100.4	100.1	100.5	102.1	100.0	100.0
August	131.7	100.4	100.4	100.1	100.5	102.1	100.0	100.0
September	131.8	99.3	100.4	100.1	100.5	102.1	100.0	100.0
October	132.3	99.0	100.4	100.2	100.5	102.1	100.0	100.0
November	131.7	99.0	100.5	100.2	100.5	102.1	102.3	103.6
December	131.1	99.1	100.4	100.2	100.5	101.4	102.3	103.6
1998 January	130.3	99.2	100.5	100.2	100.6	101.7	102.3	103.6
February	130.2	99.0	100.5	100.2	100.6	101.7	102.3	103.6
(PRELIM) March	129.7	99.1	100.5	100.2	100.6	102.1	102.3	103.6
(PRELIM) April	130.0	98.5	100.5	100.2	100.6	101.7	102.3	103.6
(PRELIM) May	130.4	98.1	100.5	100.3	100.6	101.7	102.3	103.6
(PRELIM) June	130.6	98.5	100.5	100.2	100.6	101.7	102.3	103.6

Producer Price Indices are subject to revision four months after release

Table 4.4
Producer Price Indices
(June 1997 = 100)

	Other Local Service, except Directory Assistance	Public Switched Toll Service	Residence Switched Toll Service	Intrastate Residence Switched Toll Service	Interstate Residence Switched Toll Service	International Residence Switched Toll Service	Business Switched Toll Service	Business Switched Access Toll Service	Outbound Business Switched Access Toll Service
BLS Series Identifier	pcu4813#11409	pcu4813#2	pcu4813#21	pcu4813#211	pcu4813#212	pcu4813#213	pcu4813#22	pcu4813#221	pcu4813#2211
1995 June	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
July	100.0	105.2	102.6	101.2	105.2	99.4	108.2	104.0	103.8
August	100.0	101.3	101.3	101.1	103.7	95.7	101.4	101.4	101.3
September	100.0	101.0	101.0	103.2	100.1	97.2	101.0	102.1	103.1
October	100.0	100.8	102.0	105.8	100.9	96.4	99.5	100.3	99.4
November	100.0	99.3	99.7	102.9	98.1	94.3	98.8	99.2	99.4
December	100.0	99.1	100.1	104.2	96.3	97.1	98.0	98.4	99.2
1996 January	100.0	98.8	99.6	101.6	99.3	95.0	97.8	98.7	99.1
February	100.0	99.3	100.3	104.7	98.2	95.0	98.0	99.0	98.3
March	100.0	99.0	101.3	106.3	98.8	92.9	96.3	96.5	96.2
April	100.0	99.3	100.6	104.2	98.6	93.3	97.8	98.4	98.0
May	100.0	98.8	100.8	106.0	97.9	93.8	96.5	96.7	97.8
June	100.0	99.5	101.2	106.0	98.2	94.2	97.5	97.2	97.5
July	100.0	100.2	102.8	106.4	102.3	92.8	97.1	97.4	97.2
August	100.0	100.9	103.3	110.4	99.2	90.5	98.0	99.4	99.7
September	100.0	100.6	102.1	107.8	98.1	89.3	98.9	100.3	101.7
October	100.0	100.4	101.2	104.0	101.3	85.9	99.4	102.5	105.0
November	100.0	99.9	100.1	105.7	99.1	79.8	99.7	101.3	101.4
December	100.0	98.8	99.2	105.1	97.0	77.8	98.2	99.2	97.8
1997 January	100.0	100.6	102.7	103.5	105.4	82.0	98.0	100.1	97.6
February	100.0	99.3	101.7	103.1	104.1	79.6	96.4	98.8	97.5
March	100.0	97.7	99.5	102.2	99.0	80.2	95.7	98.3	97.9
April	100.0	98.2	100.2	101.0	102.2	80.1	95.8	98.7	98.7
May	100.0	99.3	101.4	101.8	105.0	80.1	96.9	100.7	100.7
June	100.0	100.3	101.8	101.4	104.9	84.4	98.5	103.2	103.7
July	100.0	99.7	102.2	99.9	107.0	85.1	96.7	103.0	105.9
August	100.0	100.4	103.4	100.9	107.1	85.6	96.9	104.2	107.0
September	100.0	98.4	100.9	100.5	104.2	85.6	95.5	103.2	107.9
October	100.0	97.8	99.4	100.7	102.0	84.7	95.8	103.3	107.6
November	100.0	97.6	98.2	103.9	97.3	80.7	96.9	104.6	108.3
December	100.0	97.9	99.7	100.6	104.6	83.4	95.8	104.4	108.8
1998 January	100.0	98.0	100.5	99.0	107.2	82.7	95.0	102.9	108.7
February	100.0	97.7	100.2	96.7	110.0	76.8	94.6	103.0	111.1
(PRELIM) March	100.0	97.8	99.1	93.0	111.2	77.3	96.3	103.8	110.7
(PRELIM) April	100.0	96.7	99.3	93.1	112.8	77.1	93.6	101.5	109.0
(PRELIM) May	100.0	95.9	99.4	94.6	111.6	77.2	91.7	100.1	109.0
(PRELIM) June	100.0	96.7	99.8	97.1	109.3	79.2	93.0	101.4	109.3

Producer Price Indices are subject to revision four months after release

Table 4.4
Producer Price Indices
(June 1997 = 100)

	Intrastate Business Switched Access Toll Service, Outbound	Interstate Business Switched Access Toll Service, Outbound	International Business Switched Access Toll Service, Outbound	Inbound Business Switched Access Toll Service	Intrastate Business Switched Access Toll Service, Inbound	Interstate Business Switched Access Toll Service, Inbound	International Business Switched Access Toll Service, Inbound
BLS Series Identifier	pcu4813#22111	pcu4813#22112	pcu4813#22113	pcu4813#2212	pcu4813#22121	pcu4813#22122	pcu4813#22123
1995 June	100.0	100.0	100.0	100.0	100.0	100.0	100.0
July	100.6	102.7	116.4	104.4	100.6	107.5	94.6
August	100.7	102.7	99.2	101.6	100.7	101.8	103.9
September	101.0	103.3	109.4	100.3	98.9	101.1	92.4
October	100.8	98.9	97.0	101.9	98.3	104.1	99.3
November	100.8	98.5	97.9	98.9	99.5	99.5	95.5
December	100.3	98.5	98.9	97.1	101.0	93.5	107.1
1996 January	100.9	95.9	102.7	98.0	96.2	95.6	106.6
February	101.5	96.5	94.0	100.1	97.4	98.8	101.2
March	100.7	93.7	88.7	97.0	95.3	90.4	93.4
April	101.2	94.8	96.3	99.0	95.9	94.9	91.0
May	101.6	95.1	93.9	94.7	91.2	92.3	88.1
June	101.1	96.5	87.6	96.5	96.6	90.0	93.9
July	101.6	95.3	88.8	97.7	95.6	89.6	93.2
August	102.0	101.6	88.5	98.9	91.4	94.8	100.6
September	102.2	108.2	84.0	97.7	92.3	94.2	92.9
October	103.1	114.5	87.4	98.1	91.0	94.4	93.6
November	101.7	106.0	89.1	101.0	91.6	97.9	86.7
December	101.8	98.2	82.2	101.5	90.8	91.5	93.2
1997 January	102.6	96.1	86.6	104.4	87.1	95.6	101.5
February	102.4	98.8	81.1	101.0	90.5	95.5	91.8
March	101.0	98.2	89.1	98.9	90.3	93.0	82.8
April	100.8	100.5	88.7	98.8	90.7	92.2	90.2
May	101.3	106.5	85.8	100.8	87.8	99.0	86.9
June	100.4	113.6	90.7	102.4	86.9	100.5	91.7
July	100.4	121.0	86.0	98.1	82.2	94.0	84.4
August	100.8	124.0	85.2	99.4	81.7	97.4	79.4
September	101.9	125.9	83.1	95.2	79.7	88.9	72.5
October	102.1	124.0	86.7	95.9	80.8	87.4	74.3
November	101.7	125.9	88.3	98.2	79.5	92.0	79.8
December	103.0	126.3	87.2	96.6	75.6	90.9	73.9
1998 January	102.6	126.3	85.3	92.8	76.0	85.4	68.8
February	102.5	132.1	87.5	88.9	74.2	84.7	74.3
(PRELIM) March	102.3	132.1	84.6	91.8	76.1	81.9	80.7
(PRELIM) April	102.3	129.7	81.8	88.2	76.3	86.4	69.5
(PRELIM) May	102.1	128.7	84.9	84.6	71.6	81.4	62.4
(PRELIM) June	102.1	128.5	87.0	87.5	76.4	85.9	58.2

Producer Price Indices are subject to revision four months after release

Table 4.4
Producer Price Indices
(June 1997 = 100)

	Business Special Access Switched Toll Service, except Private Lines	Outbound Business Special Access Switched Toll Service	Intrastate Business Special Access Switched Toll Service, Outbound	Interstate Business Special Access Switched Toll Service, Outbound	International Business Special Access Switched Toll Service, Outbound	Inbound Business Special Access Switched Toll Service	Intrastate Business Special Access Switched Toll Service, Inbound
BLS Series Identifier	pcu4813#222	pcu4813#2221	pcu4813#22211	pcu4813#22212	pcu4813#22213	pcu4813#2222	pcu4813#22221
1995 June	100.0	100.0	100.0	100.0	100.0	100.0	100.0
July	115.4	119.9	119.0	119.0	98.9	152.8	107.3
August	101.3	100.3	105.6	105.6	98.9	100.4	103.3
September	99.1	97.7	98.9	98.9	95.3	99.7	101.7
October	98.0	98.3	107.4	107.4	92.9	105.7	97.5
November	98.0	98.5	105.8	105.8	94.9	105.1	97.0
December	97.3	97.8	100.0	100.0	95.3	103.8	96.4
1996 January	96.3	95.8	105.2	105.2	92.6	97.8	97.1
February	96.4	95.1	103.6	103.6	91.7	96.6	98.9
March	95.8	94.3	101.2	101.2	89.4	98.7	98.5
April	96.9	95.3	102.1	102.1	92.4	97.1	99.9
May	96.2	96.6	93.8	93.8	92.2	100.6	95.5
June	98.2	96.2	102.2	102.2	86.6	103.2	101.6
July	96.7	95.1	112.2	112.2	82.9	101.7	99.4
August	95.6	95.9	110.6	110.6	89.6	101.2	95.0
September	96.6	95.1	100.7	100.7	91.6	98.7	99.3
October	94.2	93.3	96.0	96.0	91.2	93.2	95.9
November	96.9	93.6	93.8	93.8	94.3	91.5	102.9
December	96.7	90.7	90.3	90.3	87.7	93.7	107.3
1997 January	94.6	90.5	85.5	85.5	86.9	97.4	102.0
February	92.3	89.6	87.9	87.9	88.8	94.4	97.3
March	91.2	88.5	86.3	86.3	85.2	95.3	96.2
April	91.0	89.0	88.3	88.3	87.8	93.1	94.6
May	90.5	86.7	87.0	87.0	85.6	88.8	97.3
June	90.5	87.3	82.0	82.0	83.7	89.3	96.1
July	86.1	83.3	83.4	83.4	77.7	90.5	91.1
August	84.4	81.0	83.5	83.5	74.0	89.0	90.6
September	82.4	76.9	82.8	82.8	68.5	83.2	92.3
October	83.2	77.9	81.2	81.2	72.4	81.7	92.7
November	83.8	77.8	85.5	85.5	72.0	82.1	94.6
December	81.3	76.8	86.0	86.0	69.3	79.3	89.5
1998 January	81.7	75.9	83.4	83.4	69.0	82.3	92.2
February	80.6	73.2	79.7	79.7	65.7	82.6	93.9
(PRELIM) March	83.7	79.1	86.3	86.3	71.6	88.0	91.9
(PRELIM) April	80.5	75.0	79.2	79.2	71.1	80.5	90.2
(PRELIM) May	77.5	73.5	82.7	82.7	68.1	78.7	84.8
(PRELIM) June	79.0	72.9	76.3	76.3	66.9	81.0	89.9

Producer Price Indices are subject to revision four months after release

Table 4.4
Producer Price Indices
(June 1997 = 100)

	Interstate Business Special Access Switched Toll Service, Inbound	International Business Special Access Switched Toll Service, Inbound	Other Toll Service	Private Line Service	Intrastate Private Line Service	LEC Intrastate Private Line Service	Other Telephone Services	Directory Advertising	Other Telephone Services
BLS Series Identifier	pcu4813#22222	pcu4813#22223	pcu4813#29	pcu4813#3	pcu4813#31	pcu4813#311	pcu4813#9	pcu4813#91	pcu4813#99
1995 June	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
July	109.0	99.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
August	102.2	98.5	100.0	100.0	100.0	100.0	100.0	100.0	100.0
September	99.9	97.6	100.0	100.0	100.0	100.0	100.0	100.0	100.0
October	99.7	97.3	100.0	100.0	100.0	100.0	100.0	100.0	100.0
November	98.7	97.2	100.0	100.0	100.0	100.0	100.2	100.3	100.0
December	97.1	97.1	100.0	100.0	100.0	100.0	100.2	100.3	100.0
1996 January	97.7	97.0	100.0	100.0	100.0	100.0	100.2	100.3	100.0
February	101.5	97.3	100.0	100.0	99.9	99.9	100.2	100.3	100.0
March	100.8	97.4	100.0	100.0	99.9	99.9	100.2	100.3	100.0
April	98.8	97.6	100.0	100.3	101.1	101.2	100.2	100.3	100.0
May	96.0	97.5	100.1	100.4	101.1	101.2	100.2	100.3	100.0
June	105.4	97.7	99.8	100.4	101.1	101.2	100.2	100.3	100.0
July	101.1	97.5	100.3	100.4	101.1	101.2	100.2	100.2	100.0
August	91.1	97.2	100.9	100.4	101.1	101.2	100.2	100.3	100.0
September	100.1	97.1	100.2	100.4	101.1	101.2	100.2	100.2	100.0
October	97.8	97.2	100.2	100.3	100.8	100.9	100.4	100.5	100.0
November	107.5	96.9	100.2	100.3	100.8	100.9	100.6	100.7	100.0
December	118.1	96.7	100.2	100.3	100.8	100.9	100.6	100.7	100.0
1997 January	106.4	96.7	100.2	100.3	100.8	100.9	100.5	100.7	100.0
February	96.0	96.5	100.2	100.3	100.8	100.9	100.6	100.7	100.0
March	96.5	96.6	100.2	100.3	100.8	100.9	100.5	100.6	100.0
April	97.4	96.8	100.2	100.3	100.8	100.9	100.5	100.7	100.0
May	101.1	97.2	100.2	100.3	100.9	101.1	100.5	100.7	100.0
June	99.4	97.3	100.2	100.3	100.9	101.1	100.5	100.6	100.0
July	90.0	96.9	100.2	100.3	100.9	101.1	100.5	100.6	100.0
August	91.4	97.1	100.2	100.3	100.9	101.1	100.5	100.6	100.0
September	97.2	97.0	100.2	100.3	100.8	100.9	100.5	100.6	100.0
October	97.2	96.9	100.6	100.3	100.8	100.9	100.7	100.8	100.0
November	99.1	96.7	100.6	100.3	100.8	100.9	100.7	100.9	100.0
December	89.7	96.7	100.7	100.3	100.8	100.9	100.7	100.8	100.0
1998 January	96.3	96.5	100.5	100.3	100.8	100.9	100.7	100.8	100.0
February	104.0	96.5	101.3	100.3	100.8	100.9	100.8	100.9	100.0
(PRELIM) March	94.4	96.4	100.9	100.3	100.8	100.9	100.7	100.9	100.0
(PRELIM) April	103.5	96.4	101.9	100.3	100.8	100.9	100.7	100.9	100.0
(PRELIM) May	93.5	96.4	101.8	100.3	100.8	100.9	100.7	100.8	100.0
(PRELIM) June	103.0	96.5	101.8	100.3	100.8	100.9	100.7	100.8	100.0

Producer Price Indices are subject to revision four months after release

Table 4.5
Discontinued Producer Price Indices
(1972=100)

	Finished Goods	Local Services	Local Residential Services	Local Business Services	Local Optional Additional Usage	Local Coin Service	Toll Service
1972 January	41.2	98.1	97.7	97.8	99.5	99.8	98.7
February	41.4	99.1	98.9	98.7	100.4	100.0	99.3
March	41.4	99.1	98.9	98.7	100.4	100.0	99.3
April	41.3	99.7	99.5	99.8	100.4	100.0	99.3
May	41.5	100.6	100.7	100.7	100.4	100.0	99.8
June	41.7	100.8	100.9	100.8	100.9	100.0	100.2
July	42.0	100.8	100.9	100.8	100.9	100.0	100.2
August	42.0	99.6	99.7	99.3	99.4	99.9	100.5
September	42.1	100.5	100.7	100.8	99.4	100.1	100.7
October	41.9	100.5	100.7	100.9	99.4	100.1	100.7
November	42.2	100.5	100.7	100.9	99.4	100.1	100.7
December	42.6	100.5	100.7	100.9	99.4	100.1	100.7
1973 January	43.1	100.8	101.0	101.2	99.7	100.1	100.7
February	43.7	101.3	101.5	102.0	99.8	100.1	102.4
March	44.4	101.5	101.6	102.6	99.8	100.1	102.5
April	44.7	101.9	102.0	103.4	99.9	100.1	102.5
May	45.0	101.9	102.0	103.4	99.9	100.1	102.5
June	45.4	101.9	102.0	103.4	99.9	100.1	102.5
July	45.5	101.9	102.0	103.4	99.9	100.1	102.5
August	47.0	102.9	103.0	104.2	101.0	101.5	103.4
September	46.8	102.9	103.0	104.3	101.0	101.5	103.4
October	46.8	104.8	105.2	106.5	101.1	103.4	103.8
November	47.0	104.8	105.2	106.5	101.1	103.7	103.8
December	47.6	105.9	106.7	107.3	101.1	103.8	104.3
1974 January	49.0	107.4	108.1	109.2	103.3	103.8	104.6
February	49.9	107.7	108.3	109.8	103.6	103.8	104.6
March	50.2	107.7	108.3	109.8	103.6	103.8	104.6
April	50.6	107.7	108.3	109.8	103.6	103.8	104.6
May	51.2	107.7	108.3	109.8	103.6	103.8	104.6
June	51.3	107.7	108.3	109.8	103.6	103.8	104.5
July	52.8	107.7	108.3	109.9	103.6	103.8	104.4
August	53.7	109.2	109.4	112.2	106.0	103.9	104.4
September	54.2	109.2	109.3	112.4	106.0	103.9	104.4
October	55.3	109.6	109.7	113.4	106.0	103.9	105.1
November	56.2	109.6	109.7	113.4	106.0	103.9	105.1
December	56.3	109.6	109.7	113.4	106.0	103.9	105.1
1975 January	56.8	109.8	109.9	113.6	106.1	103.9	105.4
February	56.8	111.4	112.0	115.2	106.1	103.9	105.4
March	56.6	111.6	112.2	115.3	107.4	103.9	111.6

Table 4.5
Discontinued Producer Price Indices
(1972=100)

	Finished Goods	Local Services	Local Residential Services	Local Business Services	Local Optional Additional Usage	Local Coin Service	Toll Service	
1976	April	57.0	111.6	112.2	115.3	107.4	103.9	111.6
	May	57.4	111.9	112.4	115.6	107.4	103.9	111.6
	June	57.9	112.0	112.5	115.9	107.4	103.9	111.6
	July	58.6	112.8	113.4	117.3	107.5	103.9	112.3
	August	58.7	113.1	113.6	117.8	107.5	103.9	113.1
	September	59.2	114.1	114.8	119.1	107.9	104.6	113.1
	October	59.9	114.1	114.8	119.1	107.9	104.9	113.5
	November	59.9	115.4	116.2	120.4	109.0	105.2	114.7
	December	60.0	115.4	116.2	120.5	109.0	105.2	114.8
	January	60.1	117.0	118.0	122.9	109.0	105.7	115.4
	February	59.9	117.7	118.0	122.9	109.4	114.6	115.6
	March	59.9	117.7	118.0	122.9	109.4	114.6	119.6
	April	60.3	117.9	118.2	123.4	109.4	114.6	119.6
	May	60.4	118.3	118.6	123.8	110.2	114.6	120.4
	June	60.6	119.0	119.2	124.3	110.8	114.6	120.8
	July	60.8	118.8	119.2	124.3	110.8	114.6	120.8
	August	60.7	118.9	119.3	124.4	110.8	114.7	122.0
	September	60.9	118.9	119.3	124.4	110.8	114.7	122.0
	October	61.6	118.9	119.3	124.4	110.8	114.7	122.0
	November	61.8	119.1	119.6	124.5	110.8	114.7	122.0
	December	62.3	119.1	119.6	124.5	110.9	114.7	122.0
1977	January	62.6	119.1	119.6	124.5	110.9	114.7	123.3
	February	63.2	117.6	118.3	121.0	110.9	114.7	123.1
	March	63.6	118.2	119.0	121.9	110.9	114.7	123.1
	April	64.1	118.4	119.3	122.1	110.9	114.7	123.2
	May	64.6	118.4	119.3	122.1	110.9	114.7	123.2
	June	64.7	118.5	119.3	122.2	111.1	114.7	123.3
	July	65.0	118.4	119.1	122.1	111.1	114.7	123.1
	August	65.0	118.4	119.1	122.1	111.1	114.7	123.1
	September	65.3	118.4	119.1	122.1	111.1	114.7	124.2
	October	66.0	118.4	119.1	122.1	111.1	114.7	124.3
	November	66.2	119.1	120.1	122.9	111.1	114.8	124.3
	December	66.5	119.5	120.5	123.4	111.2	114.9	124.3
1978	January	67.1	120.2	120.2	123.4	117.6	115.0	124.3
	February	67.6	120.9	121.0	124.5	117.6	115.0	124.2
	March	67.8	120.9	121.0	124.5	117.6	115.4	124.3
	April	68.7	120.9	121.0	124.5	117.6	115.4	124.3
	May	69.3	120.9	121.0	124.5	117.6	115.4	124.3
	June	69.8	120.9	121.0	124.5	117.6	115.4	124.3

Table 4.5
Discontinued Producer Price Indices
(1972=100)

	Finished Goods	Local Services	Local Residential Services	Local Business Services	Local Optional Additional Usage	Local Coin Service	Toll Service
July	70.4	120.9	121.0	124.5	117.6	115.4	124.3
August	70.2	122.0	122.2	126.2	117.6	115.5	124.3
September	70.7	123.7	124.2	128.8	117.7	115.6	124.3
October	71.6	123.7	124.2	128.8	117.7	115.6	124.3
November	71.9	123.7	124.2	128.8	117.7	115.6	123.8
December	72.7	124.3	124.2	128.8	117.7	124.7	123.9
1979 January	73.7	124.3	124.0	128.8	117.7	124.7	123.3
February	74.6	123.9	123.6	128.2	117.7	124.5	123.2
March	75.1	123.0	122.5	127.5	117.7	124.2	123.2
April	75.9	123.0	122.5	127.5	117.7	124.2	123.3
May	76.4	123.0	122.5	127.5	117.7	124.2	123.2
June	76.7	123.0	122.5	127.5	117.7	124.2	123.1
July	77.5	123.0	122.5	127.5	117.7	124.2	123.1
August	78.0	123.3	122.8	127.8	117.7	124.2	123.1
September	79.2	123.9	123.5	128.8	117.7	124.2	123.1
October	80.5	124.4	124.0	129.5	117.7	124.3	123.4
November	81.2	124.4	124.0	129.5	117.7	124.3	123.3
December	82.0	126.1	126.2	131.6	117.7	124.5	123.3
1980 January	83.5	125.3	125.3	130.4	117.7	124.5	123.4
February	84.7	125.4	125.3	130.4	117.7	124.5	123.2
March	85.5	125.4	125.4	130.5	117.7	124.5	123.2
April	86.3	126.0	125.9	130.9	119.4	124.5	123.4
May	86.7	126.2	126.3	131.3	118.3	124.5	123.6
June	87.3	126.2	126.3	131.3	118.3	124.5	127.5
July	88.8	126.2	126.3	131.3	118.3	124.5	127.5
August	89.6	126.2	126.3	131.4	118.3	124.5	127.5
September	89.6	127.2	127.4	133.0	118.3	124.8	127.5
October	91.0	130.4	131.6	136.7	118.3	124.8	127.9
November	91.3	132.5	134.5	138.2	118.3	124.8	128.3
December	91.7	133.0	135.1	139.2	118.3	125.1	128.3
1981 January	93.0	133.4	135.6	139.6	118.5	125.1	129.1
February	93.8	135.3	137.0	141.4	123.1	125.3	129.0
March	94.8	135.6	137.3	141.6	123.1	125.9	129.0
April	95.7	136.3	138.2	142.8	123.1	126.0	129.0
May	96.1	138.0	140.0	144.1	123.8	129.1	128.7
June	96.4	138.0	140.0	144.1	123.8	129.1	128.7
July	96.9	141.6	144.5	148.6	123.8	129.1	139.2
August	96.7	142.6	145.1	152.2	123.8	129.3	139.2
September	96.7	144.3	147.4	153.8	123.8	129.5	141.0

Table 4.5
Discontinued Producer Price Indices
(1972=100)

	Finished Goods	Local Services	Local Residential Services	Local Business Services	Local Optional Additional Usage	Local Coin Service	Toll Service
October	97.8	146.9	151.2	155.4	123.8	130.0	141.3
November	97.9	151.0	156.2	161.0	124.1	130.0	141.3
December	98.2	151.0	156.2	161.0	124.1	130.0	142.1
1982 January	99.0	149.5	154.9	157.7	124.1	130.0	143.1
February	99.0	149.5	154.9	157.7	124.1	130.0	143.1
March	98.8	149.5	154.9	157.7	124.1	130.0	143.1
April	98.8	151.2	156.7	159.7	124.1	132.8	146.4
May	99.0	152.3	157.3	160.1	124.2	143.2	146.4
June	99.7	153.3	158.4	161.4	124.2	143.6	146.7
July	100.4	153.3	158.4	161.4	124.2	143.6	146.7
August	100.6	153.7	159.0	162.0	124.2	143.1	146.8
September	100.2	158.8	165.8	167.2	124.2	144.0	146.8
October	101.2	160.4	167.8	168.4	125.6	144.0	147.1
November	101.5	160.9	168.4	169.0	125.9	144.0	147.1
December	101.7	162.3	170.2	170.3	125.9	144.0	147.5
1983 January	101.2	162.6	168.7	170.8	125.9	161.0	148.8
February	101.2	162.9	169.0	171.2	125.9	161.0	148.8
March	101.0	163.4	169.5	172.2	125.9	161.0	149.0
April	100.9	163.1	169.2	172.0	125.7	160.9	148.9
May	101.3	163.2	168.4	171.5	125.7	161.8	149.0
June	101.6	163.3	169.1	172.3	126.2	162.9	149.3
July	101.8	163.8	169.6	173.1	126.2	163.2	149.4
August	102.0	163.9	169.7	173.2	126.2	163.2	149.4
September	101.6	164.3	170.2	173.6	126.2	163.4	149.4
October	102.5	164.7	170.5	174.0	127.0	164.3	149.8
November	102.2	164.8	170.6	174.1	127.0	164.5	149.8
December	102.3	164.8	170.6	174.1	127.0	164.5	149.8
1984 January	103.2	171.2	177.8	180.3	124.3	184.2	150.7
February	103.6	171.2	177.8	180.3	124.3	184.2	150.6
March	103.8	171.2	177.7	180.5	124.3	184.4	150.7
April	103.8	171.9	177.7	183.7	124.3	184.6	150.8
May	103.7	172.1	178.1	183.7	124.3	184.6	150.5
June	103.7	177.9	178.6	208.1	124.3	189.0	146.2
July	104.2	182.2	181.4	211.0	122.5	222.3	146.6
August	103.8	185.7	186.0	213.7	122.5	227.2	147.1
September	103.2	187.6	188.7	215.8	122.5	227.2	147.3
October	103.9	187.7	188.7	215.9	122.5	227.2	147.3
November	104.2	187.5	188.3	215.9	122.5	227.5	146.8
December	104.0	187.6	188.4	216.0	122.5	227.5	147.4

Table 4.5
Discontinued Producer Price Indices
(1972=100)

	Finished Goods	Local Services	Local Residential Services	Local Business Services	Local Optional Additional Usage	Local Coin Service	Toll Service
1985 January	104.1	188.9	189.8	218.2	122.5	228.2	147.6
February	104.2	190.7	191.9	220.7	122.5	228.9	147.7
March	104.1	190.6	191.1	220.7	122.5	228.9	147.7
April	104.4	190.6	191.1	220.7	122.5	228.9	148.1
May	104.8	191.0	192.3	220.9	122.5	230.5	149.9
June	104.8	200.6	208.8	222.2	122.5	230.7	146.3
July	105.1	200.8	209.2	222.2	122.5	230.7	146.3
August	104.6	201.6	210.4	222.9	122.5	230.8	146.6
September	103.3	202.2	211.0	223.9	122.5	231.2	146.5
October	105.0	202.3	211.0	224.6	122.5	231.3	146.5
November	105.6	204.8	211.7	228.0	130.2	233.8	146.7
December	105.9	204.8	211.7	228.0	130.2	233.8	146.2
1986 January	105.5	206.5	213.4	230.8	130.3	234.3	146.2
February	104.0	206.7	213.6	231.3	130.3	234.3	146.2
March	102.6	206.7	213.6	231.3	130.3	234.3	146.2
April	102.3	206.7	213.6	231.3	130.3	234.3	144.1
May	102.9	206.7	213.6	231.3	130.3	234.3	144.1
June	103.1	216.6	230.3	234.0	130.3	234.6	135.9
July	102.5	216.6	230.3	234.0	130.3	234.6	135.9
August	102.7	216.9	230.8	234.1	130.3	234.7	135.8
September	102.4	217.5	231.3	234.6	131.5	234.9	135.8
October	103.6	217.5	231.3	234.6	131.5	234.9	136.0
November	103.6	216.8	230.5	233.6	131.5	234.9	136.0
December	103.5	216.8	230.5	233.6	131.5	234.9	136.0
1987 January	104.0	216.7	230.1	234.0	131.5	235.0	128.8
February	104.1	216.6	230.0	234.0	131.5	234.9	128.5
March	104.3	216.8	230.3	234.1	131.5	234.9	128.5
April	105.1	216.1	229.2	233.5	131.5	234.9	128.4
May	105.4	216.1	229.2	233.5	131.5	234.9	128.1
June	105.5	216.1	229.2	233.5	131.5	234.9	128.0
July	106.0	220.1	236.6	232.7	131.5	234.9	125.4
August	105.9	219.9	236.6	232.0	131.5	234.6	125.4
September	105.7	219.3	236.6	231.9	127.8	234.5	124.9
October	106.2	219.3	236.6	231.8	127.8	234.5	124.9
November	106.3	219.3	236.6	231.8	127.8	234.5	125.2
December	105.8	219.3	236.6	231.8	127.7	234.5	125.2
1988 January	106.3	218.5	235.9	230.2	127.7	234.3	124.6
February	106.1	218.2	235.5	230.3	127.7	233.1	124.3
March	106.3	218.4	235.7	230.6	127.7	233.1	124.3

Table 4.5
Discontinued Producer Price Indices
(1972=100)

	Finished Goods	Local Services	Local Residential Services	Local Business Services	Local Optional Additional Usage	Local Coin Service	Toll Service
April	107.0	218.4	235.7	230.6	127.7	233.1	124.2
May	107.5	218.4	235.7	230.6	127.7	233.1	124.2
June	107.7	218.3	235.7	230.6	127.7	233.1	124.2
July	108.6	217.9	235.1	230.0	127.7	233.1	122.4
August	108.7	218.1	235.4	230.3	127.7	233.1	122.7
September	108.6	218.2	235.4	230.2	127.7	233.4	124.5
October	109.4	219.5	235.9	230.8	127.7	246.0	123.8
November	109.8	219.5	236.0	230.8	127.7	246.0	123.9
December	110.0	226.4	247.4	233.0	127.7	246.2	122.3
1989 January	111.1	226.2	246.6	234.3	127.5	246.6	123.1
February	111.7	226.2	246.6	234.4	127.5	246.6	125.1
March	112.1	226.3	246.7	234.4	127.5	246.6	125.1
April	113.0	229.5	252.2	234.8	127.5	246.7	124.1
May	114.2	229.5	252.2	234.8	127.5	246.7	124.0
June	114.3	229.5	252.3	234.8	127.5	246.7	124.0
July	114.1	229.6	252.5	234.9	127.5	246.7	123.9
August	113.4	229.5	252.2	234.7	127.5	246.7	123.9
September	113.6	229.4	252.2	234.6	127.5	246.7	123.9
October	114.9	229.4	252.2	234.5	127.5	246.6	122.2
November	114.9	229.4	252.2	234.5	127.5	246.6	121.3
December	115.4	229.4	252.2	234.5	127.5	246.6	121.3
1990 January	117.6	229.3	252.7	234.0	126.1	246.6	122.0
February	117.4	229.7	253.1	234.3	126.1	246.7	122.4
March	117.2	229.6	253.1	234.3	126.1	246.7	121.1
April	117.2	229.4	252.7	234.3	126.1	246.6	121.1
May	117.7	229.4	252.8	234.3	126.1	246.6	121.1
June	117.8	229.4	252.8	234.3	126.1	246.6	121.1
July	118.2	229.5	252.8	234.5	126.1	246.6	120.9
August	119.3	229.5	252.8	234.5	126.1	246.6	120.8
September	120.4	229.5	252.8	234.5	126.1	246.6	120.9
October	122.3	229.8	253.3	234.6	126.1	246.7	120.7
November	122.9	231.4	256.0	234.6	126.1	248.5	120.0
December	122.0	231.4	256.0	234.6	126.1	248.5	120.0
1991 January	122.3	232.6	258.9	232.6	126.1	248.8	117.8
February	121.4	232.6	258.8	232.6	126.1	248.8	117.8
March	120.9	232.6	258.9	232.7	126.1	248.8	117.7
April	121.1	232.8	259.1	232.7	126.1	248.8	117.6
May	121.8	232.8	259.1	232.7	126.1	248.8	117.6
June	121.9	232.8	259.1	232.7	126.1	248.8	116.6

Table 4.5
Discontinued Producer Price Indices
(1972=100)

	Finished Goods	Local Services	Local Residential Services	Local Business Services	Local Optional Additional Usage	Local Coin Service	Toll Service
July	121.6	232.8	259.1	232.7	126.1	248.8	116.3
August	121.7	233.7	260.3	234.0	126.1	248.8	117.0
September	121.4	233.7	260.3	234.0	126.1	248.8	117.8
October	122.2	233.7	260.3	234.0	126.1	248.8	117.8
November	122.3	234.5	261.2	234.7	126.1	249.2	117.8
December	121.9	234.5	261.3	234.7	126.1	249.4	117.8
1992 January	121.8	234.3	261.0	234.7	126.1	249.4	118.3
February	122.1	234.3	261.0	234.7	126.1	249.4	118.4
March	122.2	234.3	261.0	234.7	126.1	249.4	118.4
April	122.4	234.3	261.0	234.7	126.1	249.4	118.4
May	123.2	234.3	261.0	234.7	126.1	249.4	118.4
June	123.9	234.3	261.0	234.7	126.1	249.4	117.5
July	123.7	234.1	260.7	234.6	126.1	249.5	118.1
August	123.6	234.1	260.7	234.6	126.1	249.5	119.3
September	123.3	234.1	260.7	234.6	126.1	249.5	118.0
October	124.4	234.1	260.7	234.6	126.1	249.5	118.2
November	124.0	234.1	260.7	234.6	126.1	249.5	118.2
December	123.8	234.1	260.7	234.3	126.1	249.4	119.0
1993 January	124.2	234.9	262.2	234.5	126.1	249.4	118.0
February	124.5	234.9	262.2	234.5	126.1	249.4	118.0
March	124.7	234.9	262.2	234.5	126.1	249.4	117.9
April	125.5	234.9	262.2	234.5	126.1	249.4	119.1
May	125.8	234.9	262.2	234.5	126.1	249.4	118.8
June	125.5	234.9	262.2	234.5	126.1	249.4	118.9
July	125.3	236.1	262.2	239.8	126.1	250.1	118.7
August	124.2	236.1	262.2	239.8	126.1	250.1	119.7
September	123.8	236.2	262.2	240.1	126.1	250.1	120.1
October	124.6	236.6	263.0	240.0	126.1	250.1	120.0
November	124.5	236.6	263.0	240.0	126.1	250.1	120.0
December	124.1	236.4	262.8	239.7	126.1	250.1	119.9
1994 January	124.5	236.9	263.3	240.6	126.1	250.1	120.0
February	124.8	236.9	263.3	240.6	126.1	250.1	120.0
March	124.9	236.9	263.3	240.6	126.1	250.1	123.1
April	125.0	238.1	265.2	240.7	126.1	252.3	122.9
May	125.3	238.0	265.0	240.5	126.1	252.3	122.9
June	125.6	238.0	265.0	240.5	126.1	252.3	122.8
July	126.0	237.7	264.7	240.0	126.1	252.3	122.8
August	126.5	237.7	264.7	240.0	126.1	252.3	122.8
September	125.6	237.6	264.7	239.3	126.1	252.2	122.9

Table 4.5
Discontinued Producer Price Indices
(1972=100)

	Finished Goods	Local Services	Local Residential Services	Local Business Services	Local Optional Additional Usage	Local Coin Service	Toll Service
October	125.8	237.6	264.7	239.3	126.1	252.2	122.8
November	126.1	237.6	264.7	239.3	126.1	252.2	122.6
December	126.2	237.6	264.7	239.3	126.1	252.2	122.6
1995 January	126.6	243.9	272.8	247.4	126.1	254.4	121.4
February	126.9	243.9	272.8	247.4	126.1	254.4	124.8
March	127.1	244.1	273.2	247.6	126.1	252.4	124.8
April	127.6	244.1	273.2	247.6	126.1	252.4	124.8
May	128.1	244.2	273.1	248.1	126.1	252.2	124.8
June	128.2	244.2	273.1	248.1	126.1	252.2	124.8
July	128.2	244.2	273.1	248.1	126.1	252.5	127.3
August	128.1	Discontinued					

Table 4.5
Discontinued Producer Price Indices
(1972=100)

	Intrastate MTS	Interstate MTS	International MTS	WATS	Interstate WATS	Intrastate WATS
1972 January	96.6	100.0	100.1	99.8	100.0	99.1
February	98.1	100.0	100.1	99.8	100.0	99.3
March	98.1	100.0	100.1	99.8	100.0	99.3
April	98.1	100.0	100.1	99.8	100.0	99.3
May	99.6	100.0	100.1	99.8	100.0	99.3
June	100.4	100.0	100.1	99.8	100.0	99.3
July	100.4	100.0	100.1	99.8	100.0	99.3
August	101.3	100.0	100.1	100.3	100.0	101.3
September	101.8	100.0	100.1	100.3	100.0	101.3
October	101.8	100.0	100.1	100.3	100.0	101.3
November	101.8	100.0	100.1	100.3	100.0	101.3
December	101.8	100.0	99.4	100.0	100.0	100.1
1973 January	101.9	100.0	99.4	100.1	100.0	100.2
February	102.1	103.2	99.4	100.1	100.0	100.2
March	102.1	103.2	99.4	101.5	102.0	100.2
April	102.1	103.2	99.4	101.5	102.0	100.2
May	102.1	103.2	99.4	101.5	102.0	100.2
June	102.1	103.2	99.4	101.5	102.0	100.2
July	102.1	103.1	99.4	101.5	102.0	100.2
August	104.2	103.1	99.4	102.6	102.0	100.4
September	104.2	103.1	99.4	102.6	102.0	100.4
October	105.4	103.1	99.4	102.6	102.0	100.4
November	105.4	103.1	99.4	102.8	102.0	104.9
December	106.3	103.1	99.4	103.5	102.0	107.6
1974 January	107.2	103.1	99.4	103.7	102.0	108.1
February	107.2	103.1	99.4	103.7	102.0	108.1
March	107.2	103.1	99.4	103.7	102.0	108.1
April	107.2	103.1	99.4	103.7	102.0	108.1
May	107.2	103.1	99.4	103.7	102.0	108.1
June	107.2	102.9	99.4	103.7	102.0	108.1
July	107.2	102.9	99.4	102.5	100.3	108.1
August	107.2	102.9	99.4	102.5	100.3	108.1
September	107.2	102.9	99.4	102.7	100.3	109.1
October	109.1	102.9	99.4	102.6	100.3	108.8
November	109.1	102.9	99.4	102.6	100.3	108.8
December	109.1	102.9	99.4	102.6	100.3	108.8
1975 January	109.8	102.9	99.4	102.7	100.3	108.8
February	109.8	102.9	99.4	102.7	100.3	108.8
March	111.6	113.5	99.4	104.5	102.9	108.8

Table 4.5
Discontinued Producer Price Indices
(1972=100)

	Intrastate MTS	Interstate MTS	International MTS	WATS	Interstate WATS	Intrastate WATS
April	111.6	113.5	99.4	105.2	102.9	111.2
May	111.6	113.5	98.3	105.2	102.9	111.2
June	111.6	113.5	98.3	105.2	102.9	111.2
July	113.5	113.5	98.3	105.2	102.9	111.2
August	115.4	113.5	98.3	105.5	102.9	112.4
September	115.4	113.5	98.3	106.4	102.9	115.7
October	116.4	113.5	98.3	106.4	102.9	115.7
November	119.3	113.5	98.3	106.8	102.9	117.0
December	119.3	113.5	98.3	106.8	102.9	121.6
1976 January	121.0	113.5	98.3	108.0	102.9	121.6
February	121.4	113.5	98.3	108.0	102.9	121.6
March	122.6	120.2	99.0	109.6	105.1	121.6
April	122.6	120.0	100.5	109.6	105.1	121.6
May	124.7	120.0	100.5	109.6	105.1	121.6
June	125.7	120.0	100.5	109.6	105.1	121.6
July	125.7	120.0	100.5	109.6	105.1	121.6
August	128.6	120.0	100.5	110.8	105.1	126.0
September	128.6	120.0	100.5	110.8	105.1	126.0
October	128.6	120.0	100.5	110.8	105.1	126.0
November	128.6	120.0	100.5	110.8	105.1	126.0
December	128.6	120.0	100.5	110.8	105.1	126.0
1977 January	132.2	120.0	100.5	111.1	105.1	126.7
February	131.5	120.0	100.5	111.3	105.1	127.5
March	131.5	120.0	100.5	111.3	105.1	127.5
April	131.8	120.0	100.5	111.4	105.1	127.9
May	131.8	120.0	100.5	111.4	105.1	127.9
June	132.0	120.0	100.5	111.4	105.1	127.9
July	132.0	119.7	98.7	111.4	105.1	127.9
August	132.0	119.7	98.7	111.6	105.1	128.8
September	132.0	121.9	98.7	111.6	105.1	128.8
October	132.0	121.9	98.7	112.3	105.1	131.4
November	132.0	121.9	98.7	112.3	105.1	131.4
December	132.0	121.9	98.7	112.4	105.1	131.7
1978 January	132.1	121.9	97.1	112.4	105.1	131.7
February	132.0	121.9	97.1	112.4	105.1	131.5
March	132.0	121.9	97.1	113.0	105.1	133.8
April	132.0	121.9	97.1	112.7	105.1	132.7
May	132.0	121.9	97.1	112.7	105.1	132.7
June	132.0	121.9	97.1	112.7	105.1	132.7

Table 4.5
Discontinued Producer Price Indices
(1972=100)

	Intrastate MTS	Interstate MTS	International MTS	WATS	Interstate WATS	Intrastate WATS
July	132.0	121.9	97.1	113.2	105.1	134.4
August	132.0	121.9	97.1	113.2	105.1	134.7
September	132.0	121.9	97.1	113.2	105.1	134.7
October	132.0	121.9	97.1	113.2	105.1	134.7
November	132.0	121.9	84.0	113.2	105.1	134.7
December	132.1	121.9	84.0	113.2	105.1	134.7
1979 January	132.1	120.9	84.0	113.2	105.1	134.7
February	131.9	120.8	84.0	113.2	105.1	134.7
March	131.9	120.8	84.0	113.2	105.1	134.7
April	131.9	120.8	84.0	113.6	105.1	136.0
May	131.9	120.8	83.3	113.6	105.1	136.0
June	131.5	120.8	83.3	113.6	105.1	136.0
July	131.5	120.8	83.3	113.6	105.1	136.0
August	131.5	120.8	82.7	114.3	105.1	138.5
September	131.5	120.8	82.7	114.3	105.1	138.5
October	131.5	120.8	91.4	114.3	105.1	138.5
November	131.2	120.8	91.4	114.3	105.1	138.5
December	131.2	120.8	91.4	114.4	105.1	139.0
1980 January	131.5	120.8	90.9	114.4	105.1	139.0
February	131.1	120.8	90.9	114.4	105.1	138.8
March	131.1	120.8	90.9	114.4	105.1	138.8
April	131.3	120.8	90.9	114.6	105.1	139.7
May	132.1	120.8	90.9	114.6	105.1	139.7
June	132.2	127.4	96.6	118.4	110.5	139.3
July	132.2	127.4	96.2	118.4	110.5	139.3
August	132.2	127.4	96.2	118.4	110.5	139.3
September	132.2	127.4	96.2	118.4	110.5	139.3
October	133.2	127.4	96.2	118.8	110.5	140.7
November	134.1	127.4	96.2	118.8	110.5	140.7
December	134.2	127.4	96.2	118.8	110.5	140.7
1981 January	136.0	127.4	96.2	120.2	110.5	145.9
February	136.0	127.4	95.2	120.2	110.5	145.8
March	136.0	127.4	95.2	120.2	110.5	145.8
April	136.0	127.4	95.2	120.2	110.5	145.8
May	135.1	127.4	95.2	120.5	110.5	146.9
June	135.1	127.4	95.2	120.5	110.5	146.9
July	135.1	147.7	83.5	128.9	122.1	146.9
August	139.5	147.7	83.5	128.9	122.1	146.9
September	140.4	147.7	83.5	129.8	122.1	150.1

Table 4.5
Discontinued Producer Price Indices
(1972=100)

	Intrastate MTS	Interstate MTS	International MTS	WATS	Interstate WATS	Intrastate WATS
October	140.4	147.7	83.5	129.8	122.1	150.1
November	142.4	147.7	83.5	129.8	122.1	150.1
December	144.9	147.7	83.5	129.9	122.1	150.5
1982 January	144.9	147.7	83.5	129.9	122.1	150.5
February	144.9	147.7	83.5	129.9	122.1	150.5
March	144.9	147.7	83.5	129.9	122.1	150.5
April	145.2	153.4	83.5	133.5	127.1	150.5
May	145.3	153.4	83.5	133.4	127.1	149.9
June	145.5	153.4	91.4	133.4	127.1	149.9
July	145.5	153.4	91.4	133.4	127.1	149.9
August	145.5	153.4	92.3	133.5	127.1	154.4
September	145.6	153.4	92.3	133.5	127.1	154.4
October	146.4	153.4	92.3	133.1	127.1	148.9
November	146.4	153.4	92.3	133.1	127.1	148.9
December	147.4	153.4	92.3	133.1	127.1	148.9
1983 January	151.1	153.4	92.3	131.8	127.1	144.1
February	151.1	153.4	92.3	131.8	127.1	144.3
March	151.7	153.4	92.3	131.8	127.1	144.3
April	151.5	153.4	92.3	131.8	127.1	144.3
May	151.5	153.4	92.3	132.4	127.1	146.3
June	152.2	153.4	92.3	132.7	127.1	147.6
July	152.2	153.4	92.3	133.7	127.1	151.2
August	152.3	153.4	92.3	133.7	127.1	151.2
September	152.3	153.4	92.3	133.7	127.1	151.2
October	153.2	153.4	92.7	133.7	127.1	151.2
November	153.2	153.4	92.7	133.7	127.1	151.2
December	153.2	153.4	92.7	133.7	127.1	151.1
1984 January	155.9	153.4	92.7	132.2	127.1	145.6
February	155.9	153.4	92.5	132.2	127.1	145.9
March	155.9	153.4	92.5	132.7	127.1	147.3
April	156.1	153.4	92.5	132.6	127.1	147.1
May	155.3	153.4	92.5	132.8	127.1	147.8
June	155.9	145.6	87.3	127.2	119.6	147.4
July	157.0	145.6	86.8	127.6	119.6	148.8
August	158.3	145.6	86.8	127.5	119.6	148.5
September	158.9	145.6	86.8	127.5	119.6	148.5
October	158.9	145.6	86.8	127.6	119.6	148.7
November	157.5	145.6	86.8	127.6	119.6	148.7
December	159.0	145.6	86.8	127.8	119.6	149.6

Table 4.5
Discontinued Producer Price Indices
(1972=100)

	Intrastate MTS	Interstate MTS	International MTS	WATS	Interstate WATS	Intrastate WATS
1985 January	159.8	145.6	86.8	127.6	119.6	148.8
February	159.8	145.6	86.8	127.6	119.6	148.8
March	159.8	145.6	86.8	127.8	119.6	149.7
April	161.0	146.6	86.8	127.8	119.6	149.5
May	162.6	147.9	86.8	128.2	119.6	150.9
June	162.8	141.3	86.5	123.5	113.1	151.0
July	162.8	141.3	86.5	123.5	113.1	151.0
August	163.4	141.3	86.5	123.5	113.1	151.0
September	163.2	141.3	86.5	123.7	113.1	151.6
October	163.2	141.3	86.5	123.6	113.1	151.3
November	163.7	141.3	86.5	123.5	113.1	150.9
December	162.4	141.3	86.5	123.3	113.1	150.3
1986 January	162.4	141.3	84.2	124.2	113.1	153.6
February	162.5	141.3	84.2	124.2	113.1	153.6
March	162.6	141.3	84.2	124.2	113.1	153.6
April	156.9	141.3	84.3	124.4	113.1	154.2
May	156.9	141.3	84.3	124.9	113.9	154.1
June	156.1	127.2	84.1	115.4	100.8	154.3
July	156.1	127.1	84.1	115.3	100.6	154.3
August	156.1	127.1	84.1	114.2	100.6	150.2
September	156.2	127.1	84.1	113.8	100.6	148.9
October	156.8	127.1	84.1	113.8	100.6	148.7
November	156.7	127.1	84.1	113.7	100.6	148.6
December	156.7	127.1	84.1	113.3	100.6	146.9
1987 January	156.1	115.3	84.0	111.1	97.5	146.9
February	155.4	115.3	84.0	110.9	97.5	146.4
March	155.4	115.3	84.0	110.9	97.5	146.4
April	155.2	115.3	84.0	110.9	97.5	146.4
May	154.4	115.3	84.0	110.9	97.5	146.4
June	154.2	115.3	84.0	110.3	97.5	144.2
July	152.4	112.1	84.0	110.3	97.5	144.1
August	152.4	112.1	84.0	110.2	97.5	143.7
September	151.3	112.1	84.0	110.2	97.5	143.6
October	151.3	112.1	84.0	110.1	97.5	143.4
November	152.0	112.1	83.8	110.1	97.5	143.4
December	152.0	112.1	83.8	110.1	97.5	143.4
1988 January	152.4	110.1	83.8	106.4	93.1	141.4
February	151.7	109.1	83.8	105.9	93.1	139.8
March	151.7	109.1	83.8	105.9	93.1	139.8

Table 4.5
Discontinued Producer Price Indices
(1972=100)

	Intrastate MTS	Interstate MTS	International MTS	WATS	Interstate WATS	Intrastate WATS
April	151.7	109.1	83.8	104.9	93.1	136.2
May	151.4	109.1	83.8	104.9	93.1	136.2
June	151.7	109.1	83.8	104.8	93.1	135.6
July	146.8	109.1	83.8	105.0	93.1	135.6
August	147.9	109.1	83.8	104.0	93.1	132.9
September	147.8	112.8	83.8	103.3	93.1	130.1
October	146.0	112.8	83.8	102.7	93.1	128.2
November	146.2	112.8	83.8	103.4	93.1	130.5
December	146.3	109.7	83.8	102.7	92.5	129.7
1989 January	148.3	109.7	83.8	102.0	90.6	131.7
February	153.7	109.7	83.8	102.0	90.6	131.7
March	153.6	109.7	83.8	102.0	90.6	131.7
April	153.8	108.0	83.8	99.2	87.0	131.4
May	153.7	108.0	83.8	99.1	87.0	131.0
June	153.7	108.0	83.8	99.3	87.0	131.8
July	153.7	107.8	83.8	99.1	87.0	131.0
August	153.7	107.8	83.8	99.0	87.0	130.5
September	153.7	107.8	83.8	98.8	87.0	130.1
October	149.3	107.8	83.8	98.8	87.0	130.0
November	146.3	107.8	83.8	98.8	87.0	130.0
December	147.0	107.8	83.8	98.8	87.0	130.0
1990 January	148.8	107.9	83.4	98.4	87.0	128.6
February	149.8	107.9	83.4	98.4	87.0	128.6
March	146.3	107.9	83.4	98.5	87.0	128.7
April	146.3	107.9	83.4	98.5	87.0	128.7
May	146.3	107.9	83.4	98.5	87.0	128.7
June	146.3	107.9	83.4	98.5	87.0	128.7
July	146.2	107.9	83.4	97.2	87.0	124.2
August	146.2	107.7	83.4	97.2	87.0	124.2
September	146.2	107.7	83.4	97.8	87.0	126.1
October	145.8	107.7	83.4	97.8	87.0	126.1
November	143.8	107.7	83.4	97.8	87.0	126.1
December	143.8	107.7	83.4	97.8	87.0	126.1
1991 January	140.9	105.6	83.4	97.5	87.0	125.3
February	140.9	105.6	83.4	97.5	87.0	125.3
March	140.7	105.4	83.4	97.5	87.0	125.3
April	140.6	105.4	83.4	97.5	87.0	125.3
May	138.8	105.4	83.4	97.5	87.0	125.3
June	138.1	105.4	83.4	97.5	87.0	125.3

Table 4.5
Discontinued Producer Price Indices
(1972=100)

	Intrastate MTS	Interstate MTS	International MTS	WATS	Interstate WATS	Intrastate WATS
July	138.1	104.7	83.4	97.5	87.0	125.3
August	138.1	104.7	83.4	97.5	87.0	125.3
September	140.0	106.3	83.6	97.5	87.0	125.3
October	140.2	106.3	83.6	97.5	87.0	125.3
November	140.1	106.3	83.6	97.5	87.0	125.3
December	140.1	106.3	83.6	97.4	87.0	124.8
1992 January	139.8	107.4	83.6	97.1	87.0	123.9
February	140.2	107.4	83.6	97.1	87.0	123.9
March	140.1	107.4	83.6	97.1	87.0	123.9
April	140.1	107.4	83.6	97.1	87.0	123.9
May	140.1	107.4	83.6	97.1	87.0	123.9
June	137.9	107.4	83.6	97.1	87.0	123.7
July	139.3	107.4	83.6	97.1	87.0	123.7
August	142.5	107.4	83.6	97.1	87.0	123.7
September	142.5	107.4	83.6	97.1	87.0	123.7
October	143.1	107.4	83.6	97.0	87.0	123.4
November	141.9	107.4	83.6	97.0	87.0	123.4
December	141.9	107.4	83.6	97.0	87.0	123.4
1993 January	140.2	106.6	78.8	97.0	87.0	123.3
February	142.2	106.6	78.8	97.0	87.0	123.3
March	140.1	109.4	78.1	97.0	87.0	123.3
April	140.1	109.4	78.6	96.5	87.0	121.5
May	140.3	109.4	68.6	96.5	87.0	121.5
June	140.5	109.4	68.6	96.5	87.0	121.5
July	140.0	109.4	68.6	96.5	87.0	121.5
August	139.7	111.5	68.6	96.5	87.0	121.5
September	140.7	111.5	68.6	96.5	87.0	121.5
October	140.4	111.5	68.6	96.5	87.0	121.5
November	140.4	111.5	68.6	96.5	87.0	121.5
December	140.4	111.5	68.6	96.2	87.0	120.3
1994 January	140.3	111.5	68.6	96.2	87.0	120.3
February	140.3	111.5	68.6	96.2	87.0	120.3
March	139.7	118.3	68.6	96.2	87.0	120.4
April	139.0	118.3	68.6	96.2	87.0	120.4
May	139.0	118.3	68.6	96.2	87.0	120.4
June	139.1	118.3	68.6	95.6	87.0	118.3
July	139.1	118.3	68.6	95.6	87.0	118.3
August	139.1	118.3	68.6	95.6	87.0	118.3
September	139.3	118.3	68.6	95.6	87.0	118.3

Table 4.5
 Discontinued Producer Price Indices
 (1972=100)

	Intrastate MTS	Interstate MTS	International MTS	WATS	Interstate WATS	Intrastate WATS
October	139.0	118.3	68.6	95.6	87.0	118.3
November	138.4	118.3	68.6	95.6	87.0	118.3
December	138.4	118.3	68.6	95.6	87.0	118.3
1995 January	135.4	118.3	68.6	95.1	87.0	116.5
February	135.8	124.7	68.6	95.1	87.0	116.5
March	135.8	124.7	68.6	95.1	87.0	116.5
April	135.8	124.7	68.6	95.1	87.0	116.5
May	135.8	124.7	68.6	95.1	87.0	116.5
June	135.8	124.7	68.6	95.1	87.0	116.5
July	142.4	124.7	68.6	95.1	87.0	116.5
August	Discontinued					

C. Sources of Additional Information on Price Indices

The BLS maintains current and complete access to all of the price indices at stats.bls.gov on the internet. Visitors can find documentation on the construction of the indices there as well.

Appendix A Long Term Trends

	AT&T Rate for a Residential 10-minute Daytime Call on January 1			Average Base Rate for a Residential Access Line FCC Urban Rates Survey		Estimated Federal Excise Taxes			Cost of a First Class Letter
	Mileage			AT&T	Oct 15	Local	Toll	Combined	
	5	200	2752	Jan 1					
1925									\$0.02
1926									0.02
1927									0.02
1928	\$0.20	\$4.00	\$27.75						0.02
1929	0.20	3.60	27.75						0.02
1930	0.20	3.50	27.75						0.02
1931	0.20	3.50	27.75						0.02
1932	0.20	3.50	27.75						0.02
1933	0.20	3.50	27.75				7.0%	2.1%	0.03
1934	0.20	3.50	27.75				7.0%	2.1%	0.03
1935	0.20	3.50	27.75				7.0%	2.1%	0.03
1936	0.20	3.50	27.75				7.0%	2.1%	0.03
1937	0.20	3.50	23.00				7.0%	2.1%	0.03
1938	0.20	2.55	23.00				7.0%	2.1%	0.03
1939	0.20	2.55	23.00				7.0%	2.1%	0.03
1940	0.20	2.55	23.00	\$3.67			7.0%	2.1%	0.03
1941	0.20	2.55	13.10	3.67			8.2%	2.7%	0.03
1942	0.20	2.55	13.10	3.64		3.5%	11.7%	6.5%	0.03
1943	0.20	2.20	11.00	3.64		7.7%	16.1%	11.1%	0.03
1944	0.20	2.20	11.00	3.66		12.7%	24.7%	17.5%	0.03
1945	0.20	2.20	11.00	3.67		12.7%	24.7%	17.5%	0.03
1946	0.20	2.20	6.70	3.67		12.7%	24.7%	17.5%	0.03
1947	0.20	2.20	6.70	3.70		12.7%	24.7%	17.5%	0.03
1948	0.20	2.20	6.70	3.91		12.7%	24.7%	17.5%	0.03
1949	0.20	2.20	6.70	4.02		12.7%	24.7%	17.5%	0.03
1950	0.20	2.20	6.70	4.29		12.7%	24.7%	17.5%	0.03
1951	0.20	2.20	6.70	4.48		12.7%	24.7%	17.5%	0.03
1952	0.20	2.20	6.70	4.62		12.7%	24.7%	17.5%	0.03
1953	0.25	2.20	6.70	4.93		12.7%	24.7%	17.5%	0.03
1954	0.25	2.20	7.05	5.10		10.9%	16.7%	13.1%	0.03
1955	0.25	2.20	7.05	5.19		9.0%	10.0%	9.4%	0.03
1956	0.25	2.20	7.05	5.24		9.0%	10.0%	9.4%	0.03
1957	0.25	2.20	7.05	5.28		9.0%	10.0%	9.4%	0.03
1958	0.25	2.20	7.05	5.36		9.0%	10.0%	9.4%	0.03
1959	0.25	2.20	7.05	5.51		9.0%	10.0%	9.4%	0.04
1960	0.25	2.20	6.45	5.55		9.0%	10.0%	9.4%	0.04
1961	0.25	2.20	6.45	5.61		9.0%	10.0%	9.4%	0.04
1962	0.25	2.20	6.45	5.62		9.0%	10.0%	9.4%	0.04
1963	0.25	2.20	6.45	5.65		9.0%	10.0%	9.4%	0.04
1964	0.45	2.20	6.45	5.66		9.0%	10.0%	9.4%	0.05
1965	0.45	2.20	6.45	5.67		9.0%	10.0%	9.4%	0.05
1966	0.45	2.20	5.50	5.64		9.0%	10.0%	9.5%	0.05

Appendix A Long Term Trends

	AT&T Rate for a Residential 10-minute Daytime Call on January 1			Average Base Rate for a Residential Access Line FCC Urban Rates Survey		Estimated Federal Excise Taxes			Cost of a First Class Letter
	Mileage			AT&T	Oct 15	Local	Toll	Combined	
	5	200	2752	Jan 1					
1967	0.45	2.20	5.50	5.60		9.0%	10.0%	9.5%	0.05
1968	0.50	2.20	4.90	5.61		9.0%	10.0%	9.5%	0.05
1969	0.50	2.20	4.85	5.68		9.0%	10.0%	9.5%	0.06
1970	0.50	2.15	4.55	5.76		9.0%	10.0%	9.5%	0.06
1971	0.50	2.10	4.50	6.04		9.0%	10.0%	9.5%	0.06
1972	0.52	2.34	4.50	6.38		9.0%	10.0%	9.5%	0.08
1973	0.52	2.34	4.50	6.69		8.1%	9.0%	8.5%	0.08
1974	0.52	2.48	4.67	7.08		7.2%	8.0%	7.6%	0.08
1975	0.52	2.48	4.67	7.32		6.3%	7.0%	6.6%	0.10
1976	0.70	3.15	4.16	7.81		5.4%	6.0%	5.7%	0.13
1977	0.91	3.25	3.96	8.07		4.5%	5.0%	4.8%	0.13
1978	1.00	3.34	3.96	8.31		3.6%	4.0%	3.8%	0.13
1979	1.00	3.34	3.96	8.40		2.7%	3.0%	2.9%	0.15
1980	1.00	3.34	3.96	8.61		1.8%	2.0%	1.9%	0.15
1981	1.01	3.54	4.17	9.16		1.8%	2.0%	1.9%	0.15
1982	1.13	4.07	4.80	10.18		0.9%	1.0%	1.0%	0.20
1983	1.76	4.09	5.15	11.38	\$10.50	2.7%	3.0%	2.9%	0.20
1984	1.76	4.09	5.15		12.10	2.7%	3.0%	2.9%	0.20
1985	1.65	3.87	4.83		13.18	2.7%	3.0%	2.9%	0.22
1986	1.75	3.14	3.79		14.62	2.7%	3.0%	2.9%	0.25
1987	1.58	2.67	3.28		15.10	2.7%	3.0%	2.9%	0.25
1988	1.47	2.45	2.88		14.99	2.7%	3.0%	2.9%	0.25
1989	1.47	2.34	2.75		15.83	2.7%	3.0%	2.9%	0.25
1990	1.71	2.15	2.50		15.94	2.7%	3.0%	2.9%	0.25
1991	1.71	2.10	2.49		16.66	2.7%	3.0%	2.9%	0.25
1992	1.70	2.10	2.45		16.67	2.7%	3.0%	2.9%	0.29
1993	2.00	2.20	2.50		16.77	2.7%	3.0%	2.9%	0.29
1994	2.20	2.40	2.50		16.83	2.7%	3.0%	2.9%	0.29
1995	2.40	2.70	2.80		17.16	2.7%	3.0%	2.9%	0.32
1996	2.50	2.80	3.00		17.20	2.7%	3.0%	2.9%	0.32
1997	2.60	2.90	3.10		17.31	2.7%	3.0%	2.9%	0.32
1998	2.80	2.80	2.80						0.32

Appendix A Long Term Trends

	Consumer Price Indices			Personal Consumption Expenditures (billions)		
	All Items	Telephone Service	Telephone Service Without FET	Total	Telephone	Telephone as % of Total
1925	17.5					
1926	17.7					
1927	17.4					
1928	17.1					
1929	17.1	37.3	37.3	\$77.3	\$0.6	0.78%
1930	16.7	37.5	37.5	69.9	0.6	0.86%
1931	15.2	37.6	37.6	60.5	0.6	0.99%
1932	13.7	37.7	37.7	48.6	0.5	1.03%
1933	13.0	37.5	36.8	45.8	0.4	0.87%
1934	13.4	37.0	36.2	51.4	0.4	0.78%
1935	13.7	36.8	36.0	55.8	0.5	0.90%
1936	13.9	36.6	35.8	62.0	0.5	0.81%
1937	14.4	36.1	35.3	66.7	0.5	0.75%
1938	14.1	36.1	35.3	64.1	0.5	0.78%
1939	13.9	36.1	35.3	67.0	0.6	0.90%
1940	14.0	36.1	35.3	71.0	0.6	0.85%
1941	14.7	36.3	35.4	80.8	0.7	0.87%
1942	16.3	38.3	36.0	88.6	0.8	0.90%
1943	17.3	39.5	35.6	99.5	1.0	1.01%
1944	17.6	40.7	34.6	108.2	1.1	1.02%
1945	18.0	41.3	35.1	119.6	1.2	1.00%
1946	19.5	41.3	35.1	143.9	1.2	0.83%
1947	22.3	42.0	35.7	161.9	1.4	0.86%
1948	24.1	44.1	37.5	174.9	1.6	0.91%
1949	23.8	46.0	39.1	178.3	1.7	0.95%
1950	24.1	49.7	42.3	192.1	1.9	0.99%
1951	26.0	50.6	43.1	208.1	2.2	1.06%
1952	26.5	52.5	44.7	219.1	2.4	1.10%
1953	26.7	54.3	46.2	232.6	2.7	1.16%
1954	26.9	53.4	47.2	239.8	2.8	1.17%
1955	26.8	52.9	48.4	257.9	3.1	1.20%
1956	27.2	53.5	48.9	270.6	3.3	1.22%
1957	28.1	54.5	49.8	285.3	3.6	1.26%
1958	28.9	56.1	51.3	294.6	3.9	1.32%
1959	29.1	57.4	52.5	318.1	4.2	1.32%
1960	29.6	58.3	53.3	332.4	4.5	1.36%
1961	29.9	58.5	53.5	342.6	4.8	1.41%
1962	30.2	58.5	53.5	363.4	5.1	1.41%
1963	30.6	58.6	53.6	383.0	5.5	1.44%
1964	31.0	58.6	53.6	411.4	5.9	1.45%
1965	31.5	57.7	52.7	444.3	6.5	1.46%
1966	32.4	56.5	51.6	481.9	7.0	1.45%

Appendix A Long Term Trends

	Consumer Price Indices			Personal Consumption Expenditures (billions)		
	All Items	Telephone Service	Telephone Service Without FET	Total	Telephone	Telephone as % of Total
1967	33.4	57.3	52.3	509.5	7.7	1.51%
1968	34.8	57.3	52.3	559.8	8.3	1.49%
1969	36.7	58.0	53.0	604.7	9.3	1.53%
1970	38.8	58.7	53.6	648.1	10.1	1.56%
1971	40.5	61.6	56.3	702.5	11.0	1.57%
1972	41.8	65.0	59.4	770.7	12.4	1.61%
1973	44.4	66.7	61.4	851.6	14.1	1.66%
1974	49.3	69.5	64.6	931.2	15.5	1.67%
1975	53.8	71.7	67.2	1,029.1	17.7	1.72%
1976	56.9	74.3	70.3	1,148.8	19.8	1.72%
1977	60.6	75.2	71.8	1,277.1	21.5	1.69%
1978	65.2	76.0	73.2	1,428.8	23.9	1.67%
1979	72.6	75.8	73.7	1,593.5	25.7	1.61%
1980	82.4	77.7	76.2	1,760.4	27.6	1.57%
1981	90.9	84.6	83.0	1,941.3	30.9	1.59%
1982	96.5	93.2	92.3	2,076.8	35.1	1.69%
1983	99.6	99.2	96.4	2,283.4	38.6	1.69%
1984	103.9	107.5	104.5	2,492.3	41.8	1.68%
1985	107.6	111.7	108.6	2,704.8	46.0	1.70%
1986	109.6	117.2	113.9	2,892.7	49.3	1.70%
1987	113.6	116.5	113.3	3,094.5	51.9	1.68%
1988	118.3	116.5	113.3	3,349.7	54.3	1.62%
1989	124.0	117.2	113.9	3,594.8	58.0	1.61%
1990	130.7	117.7	114.4	3,839.3	60.4	1.57%
1991	136.2	119.7	116.4	3,975.1	63.5	1.60%
1992	140.3	120.4	117.1	4,219.8	70.3	1.67%
1993	144.5	121.2	117.8	4,459.2	74.5	1.67%
1994	148.2	123.1	119.7	4,717.0	82.6	1.75%
1995	152.4	124.0	120.6	4,957.7	90.2	1.82%
1996	156.9	125.9	122.4	5,207.6	96.9	1.86%
1997	160.5	127.7	124.1	5,485.8		
1998						

Appendix A Long Term Trends

	AT&T Chained Rate Index (Business and Residential)			Producer Price Indices 1972=100		
	Local	Intrastate	Interstate & International	Local	Intrastate	Interstate
		Toll	Toll		Toll	Toll
1925						
1926						
1927						
1928						
1929						
1930						
1931						
1932						
1933						
1934						
1935						
1936						
1937						
1938						
1939						
1940	100.0	100.0	100.0			
1941	99.7	98.2	92.8			
1942	99.8	98.2	92.7			
1943	99.6	97.0	84.8			
1944	99.6	94.3	83.3			
1945	99.6	94.3	79.8			
1946	99.6	94.1	76.5			
1947	104.7	101.2	76.4			
1948	109.1	105.0	76.4			
1949	118.6	114.4	76.4			
1950	123.2	115.6	76.4			
1951	127.3	117.2	76.4			
1952	135.0	120.6	77.6			
1953	138.7	122.5	83.4			
1954	140.8	125.3	83.4			
1955	142.1	124.9	83.4			
1956	144.0	124.7	83.3			
1957	146.9	124.2	83.3			
1958	149.8	127.8	83.5			
1959	150.4	128.0	81.4			
1960	150.9	129.4	81.3			
1961	151.0	129.7	81.3			
1962	151.2	124.9	81.3			
1963	151.2	124.5	80.3			
1964	150.9	123.6	80.3			
1965	150.2	119.7	77.9			
1966	149.7	117.8	77.9			

Appendix A Long Term Trends

	AT&T Chained Rate Index (Business and Residential)			Producer Price Indices 1972=100		
	Local	Interstate & Intrastate		Local	Intrastate Interstate	
		Toll	International Toll		Toll	Toll
1967	149.5	116.6	75.7			
1968	151.3	116.3	76.2			
1969	152.3	117.4	76.3			
1970	159.1	123.2	74.0			
1971	167.8	136.8	76.1			
1972	176.2	137.7	76.4	100.0	100.0	100.0
1973	187.8	144.8	77.7	102.9	103.3	102.9
1974				108.8	107.7	103.0
1975	series discontinued			113.4	113.8	111.7
1976				118.9	125.6	118.9
1977				119.3	131.9	120.6
1978				122.1	132.0	121.9
1979				123.4	131.6	120.8
1980				128.0	132.3	124.7
1981				144.1	138.1	137.6
1982				160.6	145.6	152.0
1983				169.6	152.1	153.4
1984				182.4	157.1	148.9
1985				202.5	162.0	143.4
1986				223.6	158.0	133.0
1987				233.1	153.5	113.7
1988				236.6	149.3	110.2
1989				250.8	151.7	108.3
1990				253.4	146.3	107.8
1991				259.7	139.7	105.6
1992				260.8	140.8	107.4
1993				262.4	140.2	109.8
1994				264.4	139.2	117.2
1995						
1996	series discontinued					
1997						
1998						

Appendix A Long Term Trends

	Linked Series 1982 - 1984 = 100			Other Economic Measures		
	Local	Intrastate Toll	Interstate Toll	Toll Volume Index 1925=100	Moody's Aaa Bond Yields	GDP
						Billions of 1992 Dollars (Chained)
1925				100	4.88%	\$848.7
1926				112	4.73%	899.4
1927				122	4.57%	897.9
1928				134	4.55%	906.7
1929				145	4.73%	963.6
1930				131	4.55%	873.9
1931				92	4.58%	798.6
1932				99	5.01%	691.5
1933				89	4.49%	677.0
1934				92	4.00%	728.8
1935				96	3.60%	787.9
1936				107	3.24%	899.3
1937				109	3.26%	808.4
1938				108	3.19%	902.0
1939				112	3.01%	973.1
1940	33.2	47.9	86.4	118	2.84%	1,049.6
1941	33.1	47.0	80.2	136	2.77%	1,235.0
1942	33.1	47.0	80.2	152	2.83%	1,467.0
1943	33.1	46.5	73.3	179	2.73%	1,733.1
1944	33.1	45.2	72.0	195	2.72%	1,874.8
1945	33.1	45.2	69.0	217	2.62%	1,839.8
1946	33.1	45.0	66.1	252	2.53%	1,489.6
1947	34.8	48.4	66.1	265	2.61%	1,448.6
1948	36.2	50.3	66.1	269	2.82%	1,505.6
1949	39.4	54.8	66.1	264	2.66%	1,506.0
1950	40.9	55.4	66.1	260	2.62%	1,634.6
1951	42.3	56.1	66.1	263	2.86%	1,803.7
1952	44.8	57.8	67.0	269	2.96%	1,874.0
1953	46.0	58.7	72.1	278	3.20%	1,949.1
1954	46.8	60.0	72.1	291	2.90%	1,923.2
1955	47.2	59.8	72.1	323	3.06%	2,030.1
1956	47.8	59.7	72.0	356	3.36%	2,071.7
1957	48.8	59.5	72.0	385	3.89%	2,106.4
1958	49.8	61.2	72.2	411	3.79%	2,090.4
1959	50.0	61.3	70.4	450	4.38%	2,212.3
1960	50.1	62.0	70.2	484	4.41%	2,261.7
1961	50.2	62.1	70.2	512	4.35%	2,309.8
1962	50.2	59.8	70.2	556	4.33%	2,449.1
1963	50.2	59.6	69.4	595	4.26%	2,554.0
1964	50.1	59.2	69.4	652	4.40%	2,702.9
1965	49.9	57.3	67.3	727	4.49%	2,874.8
1966	49.7	56.4	67.3	817	5.13%	3,060.2

Appendix A Long Term Trends

	Linked Series 1982 - 1984 = 100			Other Economic Measures		
	Intrastate		Interstate	Toll Volume Index 1925=100	Moody's Aaa Bond Yields	GDP Billions of 1992 Dollars (Chained)
	Local	Toll	Toll			
1967	49.6	55.9	65.4	899	5.51%	3,140.2
1968	50.2	55.7	65.9	1,014	6.18%	3,288.6
1969	50.6	56.2	66.0	1,177	7.03%	3,388.0
1970	52.8	59.0	63.9	1,304	8.04%	3,388.2
1971	55.7	65.5	65.8	1,372	7.39%	3,500.1
1972	58.5	66.0	66.0	1,520	7.21%	3,690.3
1973	60.2	68.2	68.0	1,639	7.44%	3,902.3
1974	63.7	71.0	68.0	1,762	8.57%	3,888.2
1975	66.3	75.0	73.8	2,199	8.83%	3,865.1
1976	69.6	82.8	78.6	2,506	8.43%	4,081.1
1977	69.8	87.0	79.6	2,837	8.02%	4,279.3
1978	71.5	87.1	80.5	3,266	8.73%	4,493.7
1979	72.2	86.8	79.8	3,664	9.63%	4,624.0
1980	74.9	87.3	82.3	3,891	11.94%	4,611.9
1981	84.3	91.1	90.8	4,189	14.17%	4,724.9
1982	94.0	96.1	100.4	4,430	13.79%	4,623.6
1983	99.3	100.3	101.3	4,757	12.04%	4,810.0
1984	106.8	103.6	98.3	5,765	12.71%	5,138.2
1985	118.5	106.9	94.7	6,702	11.37%	5,329.5
1986	130.8	104.2	87.9	7,344	9.02%	5,489.9
1987	136.4	101.3	75.1	8,651	9.38%	5,648.4
1988	138.5	98.5	72.8	9,811	9.71%	5,862.9
1989	146.8	100.1	71.5	11,114	9.26%	6,060.4
1990	148.3	96.5	71.2	12,329	9.32%	6,138.7
1991	152.0	92.2	69.7	13,156	8.77%	6,079.0
1992	152.6	92.9	70.9	14,026	8.14%	6,244.4
1993	153.6	92.5	72.5	14,888	7.22%	6,386.4
1994	154.7	91.8	77.4	16,100	7.97%	6,608.7
1995				17,323	7.59%	6,742.9
1996				18,867	7.37%	6,928.4
1997				20,018	7.27%	7,188.8
1998						

Customer Response Survey

Publication: Reference Book of Rates, Price Indices, and Household Expenditures for Telephone Service, 1998

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
- other federal government employee
- state or local government employee
- Other (please specify)

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

Data accuracy	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Data presentation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Timeliness of data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Completeness of data	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Text clarity	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Completeness of text	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

3. Overall, how do you rate this report? Excellent Good Satisfactory Poor No opinion

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
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4. How can this report be improved?

5. May we contact you to discuss possible improvements?

Name:

Telephone #:

To discuss the information in this report, contact Tracy Waldon at 202-418-0940

Fax this response to:

OR

Mail this response to:

(202) 418-0520

FCC/IAD
Mail Stop 1600F
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