

Reference Book

of Rates, Price Indices, and Household Expenditures
for Telephone Service

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Preface

This July 2002 issue of the *Reference Book* represents a redesign and refocusing of the publication. This issue organizes local and long distance rates into a single chapter with two subsections, so that this issue contains three chapters instead of four, while retaining the same valuable information on local and long distance rates. Like the past issue of the *Reference Book* (June 1999), this issue focuses on trends in rates, price indices, and expenditures for telephone service. As before, each chapter has a section at the end that informs the reader about the various data sources that contain further information on rates, expenditures, and price indices. This issue will be available on the **FCC-State Link** at <www.fcc.gov/wcb/stats> on the Internet.

The *Reference Book* focuses on domestic telecommunications. Those interested in international telecommunications are encouraged to refer to *Trends in the U.S. International Telecommunications Industry*, last published by the Common Carrier Bureau, Industry Analysis Division, in April 2001, which is also available on the **FCC-State Link**.

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Executive Summary

Rates for Local Service

- The average rate paid by residential customers for unlimited local touch-tone calling was \$21.84 in 2001, up from \$20.78 in 2000, an increase of 5.1%. Connection charges for residential customers fell from \$44.10 to \$42.72 during the same period, a decrease of 3.2%.
- Lifeline subsidizes the monthly phone charges for low-income households, while LinkUp subsidizes charges for the connection of a phone line. Based on a sample of cities, Lifeline conferred an average monthly benefit of \$11.87, and LinkUp conferred an average benefit of \$30.57.
- The average rate paid by business customers for a single phone line rose from \$41.80 in 2000 to \$42.18 in 2001, an increase of less than 1%. Connection charges for single-line business customers remained virtually constant, rising from \$72.29 in 2000 to \$72.38 in 2001. Service and connection charges for multi-line businesses also stayed essentially the same between 2000 and 2001.

Toll Service Rates

- AT&T raised basic schedule rates from 2000 to 2001, WorldCom kept their basic schedule rates the same, while Sprint raised some of their evening rates, lowered some of their day rates, and lowered most of their night/weekend rates.
- The Consumer Price Index for interstate toll service fell by 2% during 2001 and the consumer price index for intrastate toll service fell by 1.7% during 2001, while the overall consumer price index rose by 1.5% during 2001.
- The explosion of discount and promotional long distance plans has made the basic schedule rates obsolete for many long distance customers, particularly business customers and high-volume residential consumers. For illustrative purposes, long distance customers selecting the best available long distance plans available from one major long distance company saw their rates fall by anywhere from 2.7% to 29.2% (depending on the user's volume of calling) during the period between September 2000 to March 2002.
- The average revenue per minute of long distance, which reflects rates paid by residential and business consumers, has fallen by 40% since discount and promotional long distance plans were introduced in 1992.

Consumer Expenditures for Telephone Service

- Monthly expenditures for telephone service by households with telephone service rose \$2.33, from \$70.75 in 2000 to \$73.08 in 2001, an increase of 3.3%. Telephone service continues to comprise approximately 2% of household expenditures.
- Urban households continue to spend more on telephone service than do rural households.
- According to data provided by TNS Telecoms, households spent \$426 on local service during the year 2001, \$176 on long distance service during the year 2001, and \$351 on wireless service during the year 2001, for a total of \$953 spent on telephone services during the year 2001.

I. Rates

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 to recover a portion of the interstate costs of providing local phone service. Some states, such as Michigan, 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 local number portability, telecommunications relay services, and 911 services also appear on telephone bills in many parts of the country.

State, county, and municipal governments levy a number of charges on telephone service. These charges range from standard sales taxes to the federal excise tax on telephone service, which is levied on all charges, including state taxes and surcharges.

For local service, posted rates provide an accurate picture of prices paid by end users. However, the long distance market features a variety of rates for identical or similar services. Residential consumers may choose from a wide variety of distinct discount plans, and many businesses enter into contracts with long distance carriers rather than purchasing service at the posted rates. Consequently, basic rates do not necessarily reflect the prices that residential and business consumers actually pay for long distance services. In fact, the vast majority of customers employ discount long distance calling plans and do not pay the basic schedule rate. BLS price indices, presented in Section III, provide an alternative measure of long distance prices.

A. Local Service Rates

The Industry Analysis and Technology Division of the Wireline Competition Bureau 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, 2001. The average rate for flat-rate calling in the 95 cities in the sample that offered flat-rate service with touch-tone service was \$21.84. Measured or message service was \$15.16, with an additional charge of 9 cents for a 5-minute, same-zone, business-day call.

In 81 of the 95 cities, separate additional charges for touch-tone service are no longer levied; these charges have simply been incorporated into the basic monthly charges and connection fees. The charge to have a single touch-tone line connected averaged \$40.16 on October 15, 2001. 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 twenty-two of the sample cities, an additional charge is levied for this work. Nationally, the additional charge averaged \$5.84.

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. As of October 15, 2001, flat-rate local service was available in all 95 cities, so that approximating the cost of measured/message service with one hundred 5-minute, same-zone business day calls was unnecessary. Table 1.2 presents the national average representative rates from 1986 to 2001. During this fifteen-year period, the average representative rate for residential local service has gone from \$17.70 to \$21.84, and average connection charges have dropped from \$49.25 to \$42.72.

Table 1.3 provides the rates in each of the 95 cities in the Urban Rates Survey as of October 15, 2001. 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, 2001)

	Average Rate	Median Rate
Monthly Charge for Flat-Rate Service	\$14.05	\$13.48
Federal and State Subscriber Line Charges	5.03	5.00
Additional Monthly Charge for Touch-Tone Service	0.06	0.00
Taxes, 911 and Other Charges	2.70	2.31
Total Monthly Charge for Flat-Rate Service	\$21.84	\$20.83
Number of Sample Cities with Flat-Rate Service	95	-
Monthly Charge for Measured/Message Service	\$7.27	\$7.00
Federal and State Subscriber Line Charges	5.02	5.00
Additional Monthly Charge for Touch-Tone Service	0.06	0.00
Taxes, 911 and Other Charges	2.81	2.57
Total Monthly Charge for Measured/Message Service	\$15.16	\$14.76
Cost of a 5-Minute Daytime Call	0.09	0.08
Number of Sample Cities with Message/Measured Service	88	-
Basic Connection Charge	\$40.16	\$39.70
Additional Connection Charge for Touch-Tone Service	0.12	0.00
Taxes	2.44	1.62
Total Connection Charge	\$42.72	\$42.00
Additional Charge if Drop Line and Connection Block Needed	5.84	0.00
Lowest-Cost Inside Wiring Maintenance Plan	\$3.49	\$3.95

Table 1.2
Average Residential Rates for Local Service in Urban Areas, 1986-2001
 (As of October 15)

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
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	\$13.67	\$13.75	\$13.77	\$13.64	\$14.05
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	3.52	3.58	4.50	5.03
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	0.25	0.10	0.09	0.06	0.06
Taxes, 911, and Other Charges	1.51	1.56	1.58	1.70	2.00	2.12	2.15	2.29	2.31	2.41	2.40	2.42	2.39	2.48	2.57	2.70
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	\$19.88	\$19.76	\$19.93	\$20.78	\$21.84
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	41.04	41.24	41.26	41.45	40.16
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	0.12	0.12	0.12	0.12
Taxes, 911, and Other Charges	2.28	2.20	2.11	2.44	2.32	2.30	2.29	2.30	2.33	2.44	2.36	2.46	2.38	2.57	2.53	2.44
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	\$43.67	\$43.74	\$43.95	\$44.10	\$42.72
Additional Charge if Drop Line and Connection Block Needed	NA	NA	6.04	6.07	6.89	6.89	6.50	7.29	6.74	5.90	5.74	5.65	5.64	5.86	5.84	5.84
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	1.68	2.22	2.66	3.03	3.49

NA - Not available

* Rates are based upon flat-rate service where available and measured/message service with one hundred 5-minute, same-zone, business-day calls elsewhere.

Table 1.3
Residential Telephone Rates in the Sample Cities
(As of October 15, 2001)

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	\$24.32	\$17.90	\$0.05	\$40.00	\$4.75
Alaska	Anchorage	Anchorage	15.23			35.00	2.00
Arizona	Tucson	Qwest	20.83	18.04	0.20	35.07	4.75
Arkansas	Pine Bluff	SBC	24.36	18.17	0.07	39.70	3.50
Arkansas	West Memphis	SBC	30.87	17.49	0.07	39.70	3.50
California	Anaheim	SBC	15.46	10.49	0.06	32.43	2.99
California	Bakersfield	SBC	15.46	10.49	0.06	32.43	2.99
California	Fresno	SBC	15.46	10.49	0.06	32.43	2.99
California	Long Beach	Verizon	25.18	17.69	0.08	45.51	0.95
California	Los Angeles	SBC	17.01	11.87	0.06	32.43	2.99
California	Oakland	SBC	16.62	11.53	0.06	32.43	2.99
California	Salinas	SBC	16.39	11.32	0.06	32.43	2.99
California	San Bernardino	Verizon	24.72	17.28	0.08	45.51	0.95
California	San Diego	SBC	15.04	10.49	0.06	32.43	2.99
California	San Francisco	SBC	15.46	10.49	0.06	32.43	2.99
California	San Jose	SBC	16.23	11.18	0.06	32.43	2.99
Colorado	Boulder	Qwest	23.77	18.04	0.12	36.09	4.75
Colorado	Colorado Springs	Qwest	22.47	16.99	0.13	36.09	4.75
Colorado	Denver	Qwest	23.58	17.99	0.14	36.09	4.75
Connecticut	Ansonia	SNET	21.64	16.61	0.18	55.00	3.00
Connecticut	Norwalk	SNET	20.55	16.61	0.18	55.00	3.00
District of Columbia	Washington	Verizon	20.70	13.68	0.05	28.00	3.45
Florida	Miami	BellSouth	18.44	18.43	0.15	40.00	4.75
Florida	Tampa	Verizon	20.58	16.19	0.10	55.00	3.95
Florida	West Palm Beach	BellSouth	17.62	17.28	0.10	40.00	4.75
Georgia	Albany	BellSouth	23.69	17.03	0.12	42.50	4.75
Georgia	Atlanta	BellSouth	26.65	18.53	0.12	42.50	4.75
Hawaii	Honolulu	Verizon	24.84			50.61	3.95
Illinois	Chicago	SBC	21.61	10.92	0.05	53.55	3.95
Illinois	Decatur	SBC	21.05	17.84	0.06	55.00	3.95
Illinois	Rock Island	SBC	20.65	17.44	0.06	53.55	3.95
Indiana	Indianapolis	SBC	19.87	14.61	0.20	47.00	3.49
Indiana	Terre Haute	Verizon	23.26			57.20	3.95
Iowa	Fort Dodge	Frontier	17.36			12.94	3.95
Kentucky	Louisville	BellSouth	27.19	22.43	0.06	42.00	4.75
Louisiana	Baton Rouge	BellSouth	21.22	14.76	0.06	43.05	4.75
Louisiana	New Orleans	BellSouth	20.16	14.01	0.06	41.00	4.75
Maine	Portland	Verizon	24.54			44.75	3.45
Maryland	Baltimore	Verizon	25.85	18.42	0.08	48.00	3.45
Massachusetts	Boston	Verizon	24.16	17.39	0.09	0.00	3.45
Massachusetts	Hyannis	Verizon	24.16	17.39	0.09	0.00	3.45
Massachusetts	Springfield	Verizon	24.16	17.39	0.09	0.00	3.45
Michigan	Detroit	SBC	26.68	23.13	0.07	42.00	3.95
Michigan	Grand Rapids	SBC	24.35	21.83	0.07	42.00	3.95
Michigan	Saginaw	SBC	27.30	24.80	0.07	42.00	3.95
Minnesota	Detroit Lakes	Qwest	21.16	15.95	0.09	18.35	4.75
Minnesota	Minneapolis	Qwest	22.14	17.11	0.09	18.35	4.75
Mississippi	Pascagoula	BellSouth	26.52	17.65	0.06	46.00	4.75
Missouri	Kansas City	SBC	20.26	15.82	0.08	36.16	3.95
Missouri	Mexico	SBC	19.63	16.98	0.08	36.16	3.95
Missouri	St. Louis	SBC	20.45	16.04	0.08	36.16	3.95
Montana	Butte	Qwest	23.86	16.54	0.05	26.00	4.75
Nebraska	Grand Island	Qwest	27.85	20.22	0.11	35.29	4.75
New Jersey	Phillipsburg	Verizon	14.68	12.09	0.10	42.35	3.45

Table 1.3
Residential Telephone Rates in the Sample Cities - Continued
(As of October 15, 2001)

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			
New Mexico	Alamogordo	Qwest	18.21	13.17	0.16	30.00	4.75
New York	Binghamton	Verizon	24.62	14.25	0.11	57.13	2.35
New York	Buffalo	Verizon	29.09	14.40	0.11	58.17	2.35
New York	Massena	Verizon	21.22	14.04	0.11	57.33	2.35
New York	New York City	Verizon	25.07	14.48	0.11	58.32	2.35
New York	Ogdensburg	Verizon	21.82	14.75	0.11	57.33	2.35
New York	Rochester	Frontier	19.02	11.76	0.09	33.32	
North Carolina	Raleigh	BellSouth	18.82			42.75	4.75
North Carolina	Rockingham	BellSouth	17.55			42.75	4.75
Ohio	Canton	SBC	19.95	14.62	0.08	36.50	3.79
Ohio	Cincinnati	Broadwing	23.54	15.59	0.15	25.70	4.00
Ohio	Cleveland	SBC	19.95	14.62	0.08	36.50	3.79
Ohio	Columbus	SBC	19.95	14.62	0.08	36.50	3.79
Ohio	Toledo	SBC	19.95	14.62	0.08	36.50	3.79
Oregon	Corvallis	Qwest	21.72	15.36	0.15	12.36	4.75
Oregon	Portland	Qwest	22.74	16.43	0.15	12.36	4.75
Pennsylvania	Allentown	Verizon	18.99	12.14	0.07	40.00	3.45
Pennsylvania	Ellwood City	Verizon	19.41	12.55	0.07	40.00	3.45
Pennsylvania	Johnstown	Verizon	23.58	16.19	0.14	52.70	3.95
Pennsylvania	New Castle	Verizon	17.71	12.55	0.07	40.00	3.45
Pennsylvania	Philadelphia	Verizon	20.07	11.16	0.07	40.00	3.45
Pennsylvania	Pittsburgh	Verizon	20.07	11.16	0.07	40.00	3.45
Pennsylvania	Scranton	Verizon	18.99	12.14	0.07	40.00	3.45
Rhode Island	Providence	Verizon	24.68	13.92	0.19	33.83	3.45
South Carolina	Beaufort	Sprint	21.40	14.27	0.12	32.30	3.00
Tennessee	Memphis	BellSouth	21.05	14.43	0.11	43.86	4.75
Tennessee	Nashville	BellSouth	20.63	14.36	0.10	41.50	4.75
Texas	Brownsville	SBC	17.92	13.83	0.08	38.35	3.95
Texas	Corpus Christi	SBC	16.93	12.54	0.08	38.35	3.95
Texas	Dallas	SBC	20.22	15.20	0.08	38.35	3.95
Texas	Fort Worth	SBC	19.62	15.33	0.08	38.35	3.95
Texas	Houston	SBC	19.59	14.16	0.08	38.35	3.95
Texas	San Antonio	SBC	17.75	12.97	0.08	38.35	3.95
Utah	Logan	Qwest	20.02	17.36	0.00	25.17	4.75
Virginia	Richmond	Verizon	29.53	24.75	0.10	38.50	1.25
Virginia	Smithfield	Verizon	26.73	20.46	0.16	40.00	2.50
Washington	Everett	Verizon	21.02	14.77	0.02	43.25	3.95
Washington	Seattle	Qwest	19.70	16.02	0.07	32.98	3.95
West Virginia	Huntington	Verizon	27.10	12.97	0.16	42.00	2.45
Wisconsin	Milwaukee	SBC	27.59	12.46	0.05	55.00	
Wisconsin	Racine	SBC	27.49	13.10	0.05	55.00	

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	1998	1999	2000	2001
Alabama	Huntsville	\$25.14	\$25.57	\$25.20	\$24.60	\$24.60	\$23.06	\$22.67	\$22.67	\$22.67	\$22.67	\$23.61	\$24.32
Alaska	Anchorage	10.56	10.56	14.45	16.20	14.44	14.47	14.47	14.46	14.48	14.48	14.34	15.23
Arizona	Tucson	16.25	18.20	18.23	18.23	18.23	19.18	19.13	19.42	19.42	19.43	20.10	20.83
Arkansas	Pine Bluff	22.52	22.60	22.77	22.60	22.22	22.06	22.14	22.22	22.22	22.26	23.22	24.36
Arkansas	West Memphis	27.24	29.28		29.00	29.55	28.57	28.65	28.78	20.79	28.75	29.72	30.87
California	Anaheim	12.50	12.30	12.47	12.18	12.18	15.59	15.69	15.57	15.57	15.42	15.34	15.46
California	Bakersfield	12.50	12.30	12.23	12.18	12.18	15.59	15.69	15.57	15.57	15.42	15.34	15.46
California	Fresno	12.50	12.30	12.23	12.18	12.18	15.59	15.69	16.67	17.13	15.42	15.34	15.46
California	Long Beach	16.65	17.24	17.35	17.35	16.78	23.56	23.51	23.51	23.51	23.51	24.48	25.18
California	Los Angeles	13.75	13.52	13.44	13.39	13.39	17.09	17.20	15.57	16.01	16.59	16.87	17.01
California	Oakland	13.19	13.09	13.05	13.09	13.09	16.72	16.82	15.57	16.01	16.23	16.49	16.62
California	Salinas	13.13	12.91	12.83	12.79	12.91	16.49	16.59	15.57	16.01	16.02	16.26	16.39
California	San Bernardino	16.81	16.93	17.12	17.12	16.55	23.24	23.19	23.19	23.19	23.19	24.15	24.72
California	San Diego	12.50	12.74	12.23	12.18	12.18	15.59	15.69	15.57	16.01	15.42	15.34	15.04
California	San Francisco	13.19	12.97	12.23	12.18	12.69	15.59	15.69	16.45	16.91	15.16	15.34	15.46
California	San Jose	13.13	12.91	12.83	12.79	12.79	16.34	16.44	16.30	16.30	15.87	16.11	16.23
Colorado	Boulder	18.67	20.59	20.87	20.99	21.26	21.51	21.55	21.36	21.39	22.07	23.04	23.77
Colorado	Colorado Springs	18.08	20.37	20.43	20.29	20.23	19.78	20.38	20.38	20.36	20.85	21.77	22.47
Colorado	Denver	18.95	20.80	20.87	20.80	21.12	21.10	21.14	21.11	21.40	21.91	22.85	23.58
Connecticut	Ansonia	14.33	16.68	14.66	17.22	17.60	18.70	18.70	18.70	18.64	19.41	20.67	21.64
Connecticut	Norwalk	15.44	18.06	16.04	16.13	16.51	17.60	17.60	17.60	17.55	18.32	19.58	20.55
D.C.	Washington	21.91	22.16	21.88	21.70	21.67	20.13	21.05	19.23	20.10	19.94	20.12	20.70
Florida	Miami	17.49	17.96	18.05	18.07	16.92	16.84	16.86	16.86	16.85	16.83	17.76	18.44
Florida	Tampa	17.79	17.95	17.99	17.45	17.45	17.65	19.09	19.19	19.23	19.23	20.27	20.58
Florida	West Palm Beach	16.69	16.50	16.67	16.74	15.65	15.59	15.89	15.89	15.60	15.58	16.73	17.62
Georgia	Albany	20.30	20.70	20.03	20.60	20.63	20.63	21.29	21.29	21.34	21.88	22.98	23.69
Georgia	Atlanta	23.44	24.48	24.50	24.50	24.53	24.80	24.98	24.98	24.92	24.92	26.04	26.65
Hawaii	Honolulu	19.21	19.29	19.29	19.35	20.60	21.35	22.52	22.40	22.40	22.40	23.28	24.84
Illinois	Chicago	18.11	18.17	18.00	18.21	18.20	17.31	17.63	17.18	17.18	14.52	15.52	21.61
Illinois	Decatur	19.09	20.29	21.29	21.56	21.54	20.19	20.18	20.18	20.18	22.26	23.26	21.05
Illinois	Rock Island	19.85	20.93	21.92	22.18	22.17	20.82	20.82	20.18	20.18	21.85	22.85	20.65
Indiana	Indianapolis	22.42	22.47	21.53	21.87	20.44	19.81	18.82	18.82	18.82	19.05	20.25	19.87
Indiana	Terre Haute	22.33	22.93	22.93	22.93	23.02	23.02	22.98	22.98	22.98	19.86	22.57	23.26
Iowa	Fort Dodge	13.02	13.66	13.79	13.79	14.06	14.06	14.06	15.96	15.90	15.57	16.49	17.36
Kentucky	Louisville	23.33	24.22	24.17	24.17	24.17	23.66	23.66	24.63	24.63	24.70	26.41	27.19
Louisiana	Baton Rouge	22.65	22.19	22.19	22.25	20.81	20.93	20.66	19.57	19.57	19.57	20.47	21.22
Louisiana	New Orleans	23.70	23.31	23.31	23.28	20.33	20.14	19.99	18.78	18.78	18.78	19.69	20.16
Maine	Portland	18.07	18.24	18.24	18.24	18.27	17.99	18.19	19.12	19.70	22.53	23.34	24.54
Maryland	Baltimore	24.80	25.27	26.05	24.98	24.98	24.98	24.98	24.98	24.67	24.67	25.73	25.85
Massachusetts	Boston	15.38	18.97	20.18	21.72	23.07	23.07	23.07	23.07	23.07	23.07	23.46	24.16
Massachusetts	Hyannis	13.65	17.42	18.63	20.43	23.07	23.07	23.07	23.07	23.07	23.07	23.46	24.16
Massachusetts	Springfield	14.79	18.44	19.65	21.72	23.07	23.07	23.07	23.07	23.07	23.07	23.46	24.16
Michigan	Detroit	19.07	19.04	19.21	19.25	19.55	19.50	19.42	19.42	19.76	22.50	25.99	26.68
Michigan	Grand Rapids	17.07	17.06	17.22	17.19	17.53	18.06	17.95	18.01	18.25	20.08	23.28	24.35
Michigan	Saginaw	16.34	16.31	16.48	18.75	16.93	18.96	20.05	20.05	20.11	19.85	22.99	27.30
Minnesota	Detroit Lakes	19.74	19.83	19.83	19.86	19.84	19.91	19.91	19.63	19.63	19.63	20.57	21.16
Minnesota	Minneapolis	21.09	21.19	21.19	21.64	21.66	21.73	21.73	21.45	21.46	20.61	21.54	22.14
Mississippi	Pascagoula	25.91	26.34	26.15	26.03	26.42	26.42	26.03	26.03	25.26	24.81	25.80	26.52

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

State	City	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Missouri	Kansas City	20.27	20.33	20.33	20.40	19.03	18.15	18.15	19.53	19.53	18.25	19.21	20.26
Missouri	Mexico	17.00	17.07	17.07	17.14	15.81	17.19	17.19	17.26	17.26	17.26	18.42	19.63
Missouri	St. Louis	20.10	20.16	20.16	20.23	19.05	18.18	18.18	18.18	18.18	18.28	19.32	20.45
Montana	Butte	19.25	19.25	19.25	18.22	18.22	18.22	18.22	19.26	19.69	22.70	23.16	23.86
Nebraska	Grand Island	21.78	21.85	21.86	21.88	21.88	21.85	21.76	23.39	23.27	26.22	27.14	27.85
New Jersey	Phillipsburg	13.43	13.16	13.04	13.04	13.04	13.04	13.04	13.05	13.05	13.05	13.21	14.68
New Mexico	Alamogordo	19.75	19.12	19.37	20.21	20.46	20.65	20.82	20.99	20.99	19.03	17.50	18.21
New York	Binghamton	22.90	25.74	25.31	25.31	24.52	26.03	23.80	23.76	23.74	23.74	23.90	24.62
New York	Buffalo	29.84	33.18	32.68	32.68	31.63	30.62	28.34	28.29	28.27	28.27	28.37	29.09
New York	Massena	20.19	22.93	22.90	22.90	22.88	23.40	21.19	20.33	20.31	20.31	20.50	21.22
New York	New York City	24.33	26.79	26.75	26.75	26.73	25.00	24.92	24.88	24.86	24.86	25.00	25.07
New York	Ogdensburg	20.75	23.96	23.54	23.54	23.52	24.06	21.78	20.90	20.88	20.88	21.08	21.82
New York	Rochester	20.25	20.98	20.04	19.75	18.96	16.83	16.83	17.91	17.86	17.86	18.64	19.02
North Carolina	Raleigh	18.71	19.45	18.23	18.23	18.02	17.75	17.48	17.22	17.23	17.23	18.13	18.82
North Carolina	Rockingham	16.47	17.22	16.74	16.74	16.53	16.22	15.95	15.69	15.69	15.69	16.86	17.55
Ohio	Canton	21.29	21.29	21.29	21.29	21.29	20.00	19.59	18.87	18.72	18.56	19.28	19.95
Ohio	Cincinnati	19.92	20.30	20.30	20.30	21.24	21.13	21.13	21.13	21.05	21.55	22.74	23.54
Ohio	Cleveland	21.29	21.29	21.29	21.29	21.29	20.00	19.44	18.87	18.72	18.56	19.28	19.95
Ohio	Columbus	21.29	21.29	21.29	21.29	21.29	20.00	19.85	18.87	18.72	18.56	19.28	19.95
Ohio	Toledo	21.29	21.29	21.29	21.29	21.29	20.00	19.85	18.87	18.72	18.56	19.28	19.95
Oregon	Corvallis	19.31	19.21	19.08	19.02	18.21	18.73	19.65	19.66	19.88	19.97	21.05	21.72
Oregon	Portland	21.65	21.44	21.22	21.42	18.36	22.07	23.02	21.22	21.19	21.19	22.07	22.74
Pennsylvania	Allentown	16.10	16.10	16.10	17.70	17.70	17.59	17.63	17.47	17.94	17.48	18.35	18.99
Pennsylvania	Ellwood City	14.76	14.76	14.76	15.07	15.07	16.72	16.76	16.60	16.60	16.60	18.74	19.41
Pennsylvania	Johnstown	18.67	19.25	18.98	20.11	21.95	21.78	20.31	19.48	19.48	21.94	22.86	23.58
Pennsylvania	New Castle	14.76	14.76	14.76	15.07	15.58	14.97	15.01	14.90	14.90	14.90	17.04	17.71
Pennsylvania	Philadelphia	17.44	17.44	17.44	20.09	20.09	19.98	18.72	18.56	18.56	18.56	19.41	20.07
Pennsylvania	Pittsburgh	17.44	17.44	17.44	18.78	18.78	18.67	18.72	17.48	17.48	18.56	19.41	20.07
Pennsylvania	Scranton	16.10	16.10	16.10	16.41	16.41	17.59	17.63	18.56	18.56	17.48	18.32	18.99
Rhode Island	Providence	23.46	23.62	22.76	23.09	23.50	23.50	23.50	23.50	23.50	23.49	24.43	24.68
South Carolina	Beaufort	20.72	21.61	20.30	20.30	20.30	19.76	19.76	19.76	19.76	20.41	21.33	21.40
Tennessee	Memphis	20.29	20.31	20.25	20.25	20.25	20.25	20.33	20.33	20.33	19.95	20.33	21.05
Tennessee	Nashville	19.03	19.21	19.50	19.41	19.41	19.41	19.41	19.41	19.88	19.51	19.90	20.63
Texas	Brownsville	15.71	15.42	15.27	15.27	14.33	15.33	15.31	14.91	14.78	15.33	17.16	17.92
Texas	Corpus Christi	15.86	16.22	16.93	17.00	15.93	15.89	15.90	16.22	17.15	17.17	16.23	16.93
Texas	Dallas	17.77	18.45	18.45	18.97	17.99	18.00	17.92	17.47	18.07	17.97	19.45	20.22
Texas	Fort Worth	17.09	16.80	17.68	17.77	16.70	16.73	16.62	16.17	16.75	16.89	19.17	19.62
Texas	Houston	18.59	19.40	19.37	19.42	18.39	18.44	18.28	17.98	18.31	18.31	18.87	19.59
Texas	San Antonio	16.96	16.67	17.55	17.52	16.58	16.56	16.42	16.37	16.35	16.35	17.05	17.75
Utah	Logan	15.82	15.63	15.63	15.66	15.62	15.76	15.76	15.70	17.73	17.99	19.38	20.02
Virginia	Richmond	23.70	23.98	23.96	24.60	24.60	23.90	23.78	23.78	23.78	23.78	28.67	29.53
Virginia	Smithfield	17.14	16.90	17.01	17.01	17.01	17.01	16.90	16.90	16.90	16.90	17.87	26.73
Washington	Everett	21.96	19.86	20.54	18.97	18.97	18.97	18.97	18.97	18.97	19.53	20.47	21.02
Washington	Seattle	16.13	16.06	16.21	17.00	17.00	16.22	15.93	15.97	15.61	18.16	19.03	19.70
West Virginia	Huntington	28.63	28.63	28.73	28.73	28.73	28.73	28.21	27.68	27.16	27.16	25.69	27.10
Wisconsin	Milwaukee	23.11	16.66	16.66	16.56	15.91	15.91	15.92	15.92	15.92	16.76	17.46	27.49
Wisconsin	Racine	20.97	16.63	16.63	16.61	15.96	15.87	15.88	15.88	15.88	16.40	17.09	27.49

* Rates are for flat-rate service where available and measured/message service with 100 local calls elsewhere.
Rates include 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	1998	1999	2000	2001
Alabama	Huntsville	\$44.14	\$46.44	\$42.68	\$42.68	\$42.68	\$42.68	\$40.00	\$40.00	\$40.00	\$40.00	\$40.00	\$40.00
Alaska	Anchorage	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50	25.50	35.00	35.00	35.00
Arizona	Tucson	59.42	51.64	51.74	51.74	51.74	51.74	48.92	48.92	48.92	49.85	46.59	35.07
Arkansas	Pine Bluff	52.54	52.72	52.75	52.72	44.16	43.92	44.08	44.05	44.05	44.16	39.70	39.70
Arkansas	West Memphis	52.53	53.76		53.25	44.24	44.54	44.67	44.71	44.57	44.69	39.70	39.70
California	Anaheim	36.20	34.80	34.50	34.32	34.32	35.19	35.47	35.61	35.93	34.29	32.23	32.43
California	Bakersfield	36.20	34.80	34.50	34.32	34.32	35.19	35.47	34.92	35.93	34.29	32.23	32.43
California	Fresno	36.20	34.80	34.50	34.32	34.32	35.19	35.47	34.92	35.93	34.29	32.23	32.43
California	Long Beach	49.00	54.79	55.25	55.25	52.89	45.73	45.61	45.61	45.61	45.61	45.61	45.51
California	Los Angeles	36.20	34.80	34.50	34.32	34.32	35.19	35.47	34.92	35.93	33.70	32.23	32.43
California	Oakland	36.20	34.80	34.50	34.32	34.32	35.19	35.47	34.92	35.93	33.70	32.23	32.43
California	Salinas	36.20	34.80	34.50	34.32	34.32	35.19	35.47	34.92	35.93	33.70	32.23	32.43
California	San Bernardino	49.00	54.79	55.25	55.25	52.89	45.73	45.61	45.61	45.61	45.61	45.61	45.51
California	San Diego	36.20	34.80	34.50	34.32	34.32	35.19	35.47	34.92	35.93	34.29	32.23	32.43
California	San Francisco	36.20	34.80	34.50	34.32	34.32	35.19	35.47	34.92	35.93	34.29	32.23	32.43
California	San Jose	36.20	34.80	34.50	34.32	34.32	35.19	35.47	35.93	35.93	34.29	32.23	32.43
Colorado	Boulder	65.53	37.33	37.33	37.33	37.42	37.45	37.54	37.54	37.54	38.78	36.09	36.09
Colorado	Colorado Springs	65.50	37.06	36.84	36.84	36.40	36.40	36.40	36.40	36.40	37.53	36.09	36.09
Colorado	Denver	65.93	37.56	37.56	37.56	37.56	37.56	37.56	37.56	37.56	38.72	36.09	36.09
Connecticut	Ansonia	35.73	37.87	37.87	47.70	47.70	47.70	47.70	47.70	47.70	47.70	55.00	55.00
Connecticut	Norwalk	35.73	37.87	37.87	47.70	47.70	47.70	47.70	47.70	47.70	47.70	55.00	55.00
D.C.	Washington	32.68	33.12	30.76	30.76	30.76	30.76	30.76	30.76	30.76	30.76	30.76	28.00
Florida	Miami	44.55	44.50	44.50	44.50	40.00	40.00	40.00	40.00	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	59.13	59.13	55.00	55.00
Florida	West Palm Beach	44.55	44.50	44.50	44.50	40.00	40.00	40.00	40.00	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	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	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	50.74	50.74	50.61	50.61
Illinois	Chicago	60.95	60.95	60.56	60.56	60.56	60.56	60.56	60.56	60.56	63.03	55.00	53.55
Illinois	Decatur	60.73	60.73	60.64	60.64	60.64	60.64	60.64	60.64	60.64	62.56	55.00	55.00
Illinois	Rock Island	60.77	60.77	60.64	60.64	60.64	60.64	60.64	60.64	60.64	62.56	55.00	53.55
Indiana	Indianapolis	47.00	47.00	47.00	47.00	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	60.06	60.06	57.20	57.20
Iowa	Fort Dodge	17.58	9.72	9.82	9.82	9.82	9.82	9.82	14.06	13.98	13.59	12.94	12.94
Kentucky	Louisville	34.55	34.50	34.50	34.50	34.50	34.50	42.00	42.00	42.00	42.00	42.00	42.00
Louisiana	Baton Rouge	72.25	69.28	63.50	51.80	51.80	44.63	44.29	42.23	42.23	42.23	41.00	43.05
Louisiana	New Orleans	72.25	69.54	64.12	51.50	52.00	44.29	44.29	42.23	42.23	42.23	41.00	41.00
Maine	Portland	46.99	47.44	47.44	47.44	47.44	47.44	47.44	47.44	47.21	47.21	44.75	44.75
Maryland	Baltimore	48.00	48.00	48.00	48.00	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	38.92	38.92	37.07	0.00
Massachusetts	Hyannis	33.36	36.53	38.92	38.92	38.92	38.92	38.92	38.92	38.92	38.92	37.07	0.00
Massachusetts	Springfield	33.36	36.53	38.92	38.92	38.92	38.92	38.92	38.92	38.92	38.92	37.07	0.00
Michigan	Detroit	45.78	43.68	43.68	43.68	44.52	44.52	44.52	44.52	44.52	46.62	42.00	42.00
Michigan	Grand Rapids	43.68	43.68	43.68	43.68	44.52	44.52	44.52	44.52	44.52	44.52	42.00	42.00
Michigan	Saginaw	43.68	43.68	43.68	43.68	44.52	44.52	44.52	44.52	44.52	44.52	42.00	42.00
Minnesota	Detroit Lakes	32.00	32.00	18.75	18.75	18.75	18.75	19.97	19.54	19.54	19.54	18.35	18.35
Minnesota	Minneapolis	32.00	32.00	18.75	18.75	18.75	18.75	20.06	19.63	19.63	19.63	18.35	18.35
Mississippi	Pascagoula	35.53	35.85	35.85	49.22	49.22	49.22	49.22	49.22	49.22	49.22	46.00	46.00
Missouri	Kansas City	51.78	52.95	52.95	52.95	42.47	42.47	42.47	42.47	42.47	42.70	36.50	36.16
Missouri	Mexico	50.84	51.98	51.98	51.98	51.98	41.70	41.70	41.88	41.88	41.88	36.50	36.16
Missouri	St. Louis	51.99	53.16	53.16	53.16	53.67	43.06	43.06	43.06	43.06	43.30	36.50	36.16
Montana	Butte	38.30	38.30	38.30	35.30	35.30	25.00	25.00	25.00	25.00	26.00	26.00	26.00
Nebraska	Grand Island	44.52	45.78	45.78	30.52	30.52	30.52	36.03	36.03	36.03	37.41	35.29	35.29

Table 1.5
Connection Charges for a Residential Telephone Line in the Sample Cities - Continued
(As of October 15)

State	City	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
New Jersey	Phillipsburg	44.94	44.94	44.52	44.52	44.52	44.52	44.89	44.89	44.89	44.89	42.35	42.35
New Mexico	Alamogordo	57.77	57.77	55.38	31.86	31.96	31.96	31.86	31.86	31.86	31.86	30.00	30.00
New York	Binghamton	62.64	63.13	62.48	62.48	62.42	62.71	62.59	62.47	62.41	62.41	57.13	57.13
New York	Buffalo	63.81	64.84	64.19	64.19	64.13	63.83	63.71	63.59	63.53	63.53	58.17	58.17
New York	Massena	62.85	63.34	62.69	62.69	62.63	62.34	62.22	62.10	62.05	62.05	57.33	57.33
New York	New York	64.69	65.24	64.64	64.64	64.58	64.29	64.02	63.90	63.84	63.84	58.32	58.32
New York	Ogdensburg	64.61	65.12	64.46	64.46	64.39	64.09	63.97	63.85	63.79	63.79	57.33	57.33
New York	Rochester	35.30	37.54	38.91	47.01	33.32	33.32	33.32	33.32	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	44.03	44.03	42.75	42.75
North Carolina	Rockingham	42.75	44.03	44.03	44.03	44.03	44.03	44.03	44.03	44.03	44.03	42.75	42.75
Ohio	Canton	45.80	45.80	45.80	45.80	45.80	36.50	36.50	36.50	36.50	36.50	36.50	36.50
Ohio	Cincinnati	30.25	30.25	30.25	30.25	31.70	31.70	31.70	31.70	25.70	25.70	25.70	25.70
Ohio	Cleveland	45.80	45.80	45.80	45.80	45.80	36.50	36.50	36.50	36.50	36.50	36.50	36.50
Ohio	Columbus	45.80	45.80	45.80	45.80	45.80	36.50	36.50	36.50	36.50	36.50	36.50	36.50
Ohio	Toledo	45.80	45.80	45.80	45.80	45.80	36.50	36.50	36.50	36.50	36.50	36.50	36.50
Oregon	Corvallis	12.36	12.00	12.00	12.00	12.00	12.00	12.36	12.36	12.36	12.36	12.36	12.36
Oregon	Portland	12.42	12.00	12.00	12.00	12.00	12.00	12.36	12.36	12.36	12.36	12.36	12.36
Pennsylvania	Allentown	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
Pennsylvania	Ellwood City	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00	40.00
Pennsylvania	Johnstown	59.81	61.99	53.12	55.86	55.86	55.86	55.86	55.86	55.86	55.86	52.70	52.70
Pennsylvania	New Castle	40.00	40.00	40.00	40.00	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	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	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	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	36.20	36.20	33.83	33.83
South Carolina	Beaufort	32.30	32.30	32.30	32.30	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	47.62	47.40	43.85	43.86
Tennessee	Nashville	44.78	45.13	45.13	45.13	45.13	45.13	45.13	45.13	45.13	44.92	41.50	41.50
Texas	Brownsville	71.04	47.10	46.66	46.66	44.06	47.12	47.08	47.07	46.65	47.39	38.35	38.35
Texas	Corpus Christi	72.28	48.14	50.23	50.45	47.39	47.28	47.31	48.25	43.85	43.91	38.35	38.35
Texas	Dallas	73.07	51.12	50.95	51.15	48.38	48.38	48.18	46.95	48.58	48.31	38.35	38.35
Texas	Fort Worth	72.42	48.02	50.53	50.80	47.82	47.90	47.59	46.31	47.95	48.36	38.35	38.35
Texas	Houston	72.78	51.17	51.10	51.22	48.37	48.40	47.98	47.20	44.06	44.06	38.35	38.35
Texas	San Antonio	71.72	47.56	50.08	49.99	47.38	47.31	46.93	47.71	43.85	43.85	38.35	38.35
Utah	Logan	31.27	19.92	19.92	19.92	19.90	19.90	26.53	26.50	26.50	26.83	25.17	25.17
Virginia	Richmond	38.50	38.50	38.50	38.50	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	30.00	40.00	40.00	40.00
Washington	Everett	32.93	30.67	31.38	42.08	42.08	42.08	46.67	46.67	46.67	46.67	43.25	43.25
Washington	Seattle	33.62	33.44	33.26	33.08	33.08	32.98	32.98	32.98	32.98	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	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	35.52	47.52	45.00	55.00
Wisconsin	Racine	36.57	34.70	34.70	34.70	34.70	34.70	34.74	34.74	35.52	47.30	55.00	55.00

2. Rates for Low-Income Households

Tables 1.1 through 1.5 show the local rates that are available to all customers. Many states, in addition to federal programs, subsidize low-income households' monthly service charges and connection fees. Most of these subsidy programs are part of the FCC's Lifeline and LinkUp programs. The goal of the Lifeline and LinkUp programs is to help achieve universal service by enabling lower-income households to obtain telephone service. Lifeline subsidizes lower-income households' monthly service charges, while LinkUp subsidizes lower-income households' connection charges. In the year 2001, households in all of the 95 surveyed cities received Lifeline and LinkUp benefits. Table 1.6 shows the average Lifeline and LinkUp rates in those cities and compares the subsidized rates to the standard rates. In the year 2001, low-income households on the Lifeline program paid \$9.91 per month for local service, as compared to nearly \$22.00 paid by residential subscribers not on the Lifeline program. Low-income households receiving LinkUp assistance obtain an average LinkUp benefit of \$30.57.

Table 1.7 presents the Lifeline and LinkUp rates, as well as the standard rates, in the sample cities as of October 15, 2001.

Table 1.6
Comparison of Standard Local Telephone Rates to Lifeline and LinkUp Rates
(As of October 15, 2001)

	Standard Rate in Cities with Subsidy Plan (a)	Subsidy-Plan Rate (b)	Benefit (a) - (b)
Representative Monthly Charge	\$14.05	\$8.22	
Federal and State Subscriber Line Charges	5.03	0.16	
Taxes, 911 and Other Charges	2.70	1.53	
Total Monthly Charge ^{1/}	\$21.78	\$9.91	\$11.87
Basic Connection Charge	\$40.16	\$11.47	
Taxes	2.56	0.68	
Total Connection Charge ^{1/}	\$42.72	\$12.15	\$30.57

^{1/} Averages are for the 95 cities with subsidized monthly rates and connection assistance plans.

Table 1.7
Lifeline and LinkUp Rates in the Sample Cities
(As of October 15, 2001)

State	City	Telephone Company	Monthly Telephone Rate * Including Surcharges, and Taxes		Connection Charge Including Surcharges, and Taxes	
			Standard Rates	Lifeline Rates	Standard Rates	LinkUp Rates
Alabama	Huntsville	BellSouth	\$24.32	\$11.13	\$40.00	\$20.00
Alaska	Anchorage	Anchorage	15.23	2.49	35.00	17.50
Arizona	Tucson	Qwest	20.83	9.31	37.52	18.76
Arkansas	Pine Bluff	SBC	24.36	11.79	44.16	22.08
Arkansas	West Memphis	SBC	30.87	11.38	44.69	22.34
California	Anaheim	SBC	15.46	5.44	32.43	9.33
California	Bakersfield	SBC	15.46	5.44	32.43	9.33
California	Fresno	SBC	15.46	5.44	32.43	9.33
California	Long Beach	Verizon	25.18	6.03	45.51	9.89
California	Los Angeles	SBC	17.01	5.99	35.67	10.27
California	Oakland	SBC	16.62	5.85	34.86	10.03
California	Salinas	SBC	16.39	5.77	34.38	9.89
California	San Bernardino	Verizon	24.72	5.92	45.51	9.89
California	San Diego	SBC	15.04	5.44	32.43	9.33
California	San Francisco	SBC	15.46	5.44	32.43	9.33
California	San Jose	SBC	16.23	5.71	34.05	9.80
Colorado	Boulder	Qwest	23.77	8.18	38.78	19.39
Colorado	Colorado Springs	Qwest	22.47	7.68	37.53	18.76
Colorado	Denver	Qwest	23.58	8.06	38.72	19.36
Connecticut	Ansonia	SBC	21.64	12.36	58.30	29.15
Connecticut	Norwalk	SBC	20.55	11.27	58.30	29.15
District of Columbia	Washington	Verizon	20.70	5.30	28.00	14.00
Florida	Miami	BellSouth	18.44	5.05	43.32	21.66
Florida	Tampa	Verizon	20.58	6.31	59.13	29.56
Florida	West Palm Beach	BellSouth	17.62	4.25	43.28	21.64
Georgia	Albany	BellSouth	23.69	10.47	42.50	0.00
Georgia	Atlanta	BellSouth	26.65	13.34	42.50	0.00
Hawaii	Honolulu	Verizon	22.88	8.94	50.74	25.37
Illinois	Chicago	SBC	21.61	4.05	59.76	0.00
Illinois	Decatur	SBC	21.05	5.55	60.91	0.00
Illinois	Rock Island	SBC	20.65	5.55	59.31	0.00
Indiana	Indianapolis	SBC	19.87	9.21	47.00	0.00
Indiana	Terre Haute	Verizon	23.26	11.25	60.06	30.03
Iowa	Fort Dodge	Frontier	17.36	7.92	13.72	6.86
Kentucky	Louisville	BellSouth	27.19	13.86	44.52	22.26
Louisiana	Baton Rouge	BellSouth	21.22	13.96	44.34	22.17
Louisiana	New Orleans	BellSouth	20.16	13.00	42.23	21.12
Maine	Portland	Verizon	24.54	11.26	46.99	10.50
Maryland	Baltimore	Verizon	25.85	8.23	48.00	0.00
Massachusetts	Boston	Verizon	23.63	7.95	0.00	0.00
Massachusetts	Hyannis	Verizon	23.63	7.95	0.00	0.00
Massachusetts	Springfield	Verizon	23.63	7.95	0.00	0.00
Michigan	Detroit	SBC	26.68	15.15	46.62	0.00
Michigan	Grand Rapids	SBC	24.35	13.21	44.52	0.00
Michigan	Saginaw	SBC	27.30	16.16	44.52	0.00
Minnesota	Detroit Lakes	Qwest	21.16	6.22	19.54	9.78
Minnesota	Minneapolis	Qwest	22.14	7.13	19.63	9.82
Mississippi	Pascagoula	BellSouth	26.52	13.29	49.22	24.61
Missouri	Kansas City	SBC	20.26	10.00	41.69	20.85
Missouri	Mexico	SBC	19.63	8.12	41.49	20.75
Missouri	St. Louis	SBC	20.45	10.09	42.93	21.47
Montana	Butte	Qwest	23.86	6.97	26.00	13.00

Table 1.7
Lifeline and LinkUp Rates in the Sample Cities - Continued
(As of October 15, 2001)

State	City	Telephone Company	Monthly Telephone Rate * Including Surcharges, and Taxes		Connection Charge Including Surcharges, and Taxes	
			Standard Rates	Lifeline Rates	Standard Rates	LinkUp Rates
Nebraska	Grand Island	Qwest	27.85	13.99	37.41	18.71
New Jersey	Phillipsburg	Verizon	13.59	4.31	44.89	22.45
New Mexico	Alamogordo	Qwest	18.21	2.58	31.86	7.96
New York	Binghamton	Verizon	24.62	14.31	61.70	11.22
New York	Buffalo	Verizon	29.09	18.70	62.82	11.42
New York	Massena	Verizon	21.22	10.99	61.34	11.15
New York	New York City	Verizon	25.07	15.29	63.13	11.48
New York	Ogdensburg	Verizon	21.82	11.30	63.06	11.47
New York	Rochester	Frontier - Rochester	19.02	9.10	33.32	10.00
North Carolina	Raleigh	BellSouth	18.82	6.09	44.03	22.02
North Carolina	Rockingham	BellSouth	17.55	4.81	44.03	22.02
Ohio	Canton	SBC	19.95	9.45	36.50	0.00
Ohio	Cincinnati	Cincinnati Bell	23.54	11.18	25.70	0.00
Ohio	Cleveland	SBC	19.95	9.45	36.50	0.00
Ohio	Columbus	SBC	19.95	9.45	36.50	0.00
Ohio	Toledo	SBC	19.95	9.45	36.50	0.00
Oregon	Corvallis	Qwest	21.72	9.14	12.36	6.18
Oregon	Portland	Qwest	22.74	10.10	12.36	6.18
Pennsylvania	Allentown	Verizon	18.99	13.84	40.00	20.00
Pennsylvania	Ellwood City	Verizon	19.41	14.26	40.00	20.00
Pennsylvania	Johnstown	Verizon	21.95	8.96	55.86	27.93
Pennsylvania	New Castle	Verizon	17.71	12.56	40.00	20.00
Pennsylvania	Philadelphia	Verizon	20.07	14.92	40.00	20.00
Pennsylvania	Pittsburgh	Verizon	20.07	14.92	40.00	20.00
Pennsylvania	Scranton	Verizon	18.99	13.84	40.00	20.00
Rhode Island	Providence	Verizon	24.68	11.70	36.20	18.10
South Carolina	Beaufort	Sprint	21.40	14.30	32.30	16.15
Tennessee	Memphis	BellSouth	20.17	6.35	47.48	23.74
Tennessee	Nashville	BellSouth	19.79	6.41	44.92	22.46
Texas	Brownsville	SBC	17.70	4.15	47.39	22.33
Texas	Corpus Christi	SBC	16.73	3.84	43.91	20.69
Texas	Dallas	SBC	20.00	5.33	48.31	22.76
Texas	Fort Worth	SBC	19.40	4.76	48.36	22.79
Texas	Houston	SBC	19.38	5.71	44.06	20.76
Texas	San Antonio	SBC	17.55	4.23	43.85	20.67
Utah	Logan	Qwest	20.02	4.66	26.74	13.37
Virginia	Richmond	Verizon	29.53	14.22	38.50	19.25
Virginia	Smithfield	Verizon	26.73	9.47	40.00	20.00
Washington	Everett	Verizon	21.02	5.39	46.67	23.34
Washington	Seattle	Qwest	19.70	5.24	32.98	0.00
West Virginia	Huntington	Verizon	27.10	19.28	42.00	0.00
Wisconsin	Milwaukee	SBC	27.59	17.59	58.08	0.00
Wisconsin	Racine	SBC	27.49	18.28	57.81	0.00

* Rates are for flat-rate service where available and measured/message service with 100 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 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 stayed relatively constant, moving with changes in the federal subscriber line charge, which was capped at \$5.00 at the time of the latest survey. 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 advantage of a key system is that incoming calls entering the key system can 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 allowing 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, 2001. Since firms with a key-telephone system purchase more than one phone line, the federal subscriber line charge for multiline 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 have 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 lines from the telephone company connect on the trunk side. 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, 2001. 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, 2001)

	Average Rate	Median Rate
Monthly Charge for Flat-Rate Service	\$33.43	\$33.24
Federal and State Subscriber Line Charges	5.14	5.00
Additional Monthly Charge for Touch-Tone Service	0.41	0.00
Taxes, 911, and Other Charges	5.82	4.93
Total Monthly Charge for Flat-Rate Service	\$44.80	\$43.41
Number of Sample Cities with Flat-Rate Service	54	-
Monthly Charge for Measured/Message Service	\$17.10	\$17.03
Federal and State Subscriber Line Charges	4.98	5.00
Additional Monthly Charge for Touch-Tone Service	0.19	0.00
Taxes, 911, and Other Charges	3.30	2.92
Total Monthly Charge for Measured/Message Service	\$25.57	\$26.25
Cost of a 5-Minute Daytime Call	0.09	0.09
Number of Sample Cities with Message/Measured Service	85	-
Basic Connection Charge	\$67.84	\$62.85
Additional Connection Charge for Touch-Tone Service	0.12	0.00
Taxes	4.42	3.90
Total Connection Charge	\$72.38	\$66.03
Additional Charge if Drop Line and Connection Block Needed	6.62	0.00
Lowest-Cost Inside Wiring Maintenance Plan	\$4.21	\$4.29

Table 1.9
Average Local Rates for Businesses with a Single Line in Urban Areas
(As of October 15)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Monthly Representative Service Charge*	\$31.06	\$30.97	\$32.29	\$32.45	\$32.70	\$32.25	\$32.48	\$32.58	\$32.76	\$32.44	\$32.41	\$32.18	\$31.97
Subscriber Line Charges	3.55	3.57	3.57	3.56	3.57	3.57	3.57	3.54	3.54	3.54	3.52	4.39	4.99
Extra for Touch-Tone Service	2.43	2.35	1.84	1.71	1.67	1.21	0.97	0.82	0.38	0.32	0.25	0.19	0.18
Taxes, 911, and Other Charges	4.21	4.32	4.42	4.57	4.63	4.61	4.79	4.87	4.99	4.97	5.03	5.04	5.04
Total Monthly Charge	\$41.25	\$41.21	\$42.12	\$42.29	\$42.57	\$41.64	\$41.80	\$41.81	\$41.67	\$41.27	\$41.21	\$41.80	\$42.18
Monthly Charge for Flat-Rate Service	\$33.04	\$33.29	\$34.12	\$34.06	\$34.85	\$34.39	\$34.45	\$34.42	\$34.68	\$34.39	\$33.73	\$33.45	\$33.43
Subscriber Line Charges	3.65	3.69	3.70	3.70	3.70	3.70	3.69	3.61	3.61	3.56	3.50	4.35	5.14
Extra for Touch-Tone Service	2.12	2.11	1.87	1.84	1.76	1.12	1.00	0.89	0.53	0.49	0.47	0.43	0.41
Taxes, 911, and Other Charges	4.90	4.98	5.22	5.34	5.50	5.36	5.58	5.55	5.58	5.63	5.49	5.68	5.82
Total Monthly Charge for Flat-Rate Service	\$43.71	\$44.07	\$44.91	\$44.94	\$45.81	\$44.57	\$44.71	\$44.47	\$44.39	\$44.07	\$43.20	\$43.90	\$44.80
Number of Sample Cities with Flat-Rate Service	59	56	54	54	54	53	53	53	53	54	54	54	54
Monthly Charge for Measured/Message Service	\$16.18	\$16.17	\$16.76	\$16.55	\$16.60	\$16.74	\$17.06	\$17.26	\$17.28	\$17.16	\$17.06	\$16.92	\$17.10
200 Five-Minute, Business-Day, Same-Zone Calls	16.11	16.19	16.70	17.23	17.57	17.38	17.15	17.10	17.18	17.15	17.24	17.63	17.33
Subscriber Line Charges	3.54	3.55	3.55	3.54	3.55	3.55	3.54	3.51	3.51	3.53	3.52	4.39	4.98
Extra for Touch-Tone Service	2.48	2.39	1.87	1.73	1.68	1.22	0.98	0.83	0.39	0.33	0.25	0.20	0.19
Tax, Including 911 Charges	4.41	4.53	4.56	4.77	4.86	4.83	5.01	5.13	5.22	5.19	5.28	5.32	5.32
Total Monthly Charge for Measured/Message Service	\$42.72	\$42.83	\$43.44	\$43.82	\$44.26	\$43.72	\$43.75	\$43.84	\$43.57	\$43.35	\$43.35	\$44.45	\$44.93
Number of Sample Cities with Measured/Message Service	83	83	84	84	84	87	87	86	85	85	85	85	85
Cost of a Five-Minute, Business-Day, Same-Zone Call	\$0.09	\$0.09	\$0.09	\$0.09	\$0.09	\$0.09	\$0.09	\$0.09	\$0.09	\$0.09	\$0.09	\$0.09	\$0.09
Basic Connection Charge	\$71.05	\$71.36	\$72.75	\$72.55	\$71.41	\$69.88	\$67.87	\$68.47	\$68.67	\$65.83	\$67.87	\$67.77	\$67.84
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	0.12	0.12	0.12	0.12
Tax, Including 911 Charges	4.06	4.15	4.32	4.33	4.25	4.13	4.17	4.20	4.45	4.13	4.53	4.40	4.42
Total Connection Charge	\$76.81	\$77.40	\$78.20	\$78.07	\$76.83	\$74.93	\$72.31	\$72.85	\$73.29	\$70.09	\$72.55	\$72.29	\$72.38
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	\$6.54	\$6.54	\$6.65	\$6.62	\$6.62
Lowest-Cost Inside Wiring Maintenance Plan	\$1.78	\$1.91	\$2.05	\$2.03	\$2.08	\$2.26	\$2.39	\$2.63	\$2.84	\$3.04	\$3.53	\$3.92	\$4.21

* Rates are based on flat-rate service where available and measured/message service with 200 5-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, 2001)

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	\$47.62	\$42.81	\$0.06	\$69.00	\$3.95
Alaska	Anchorage	Anchorage	31.87			53.00	2.00
Arizona	Tucson	Qwest	43.41			60.03	3.95
Arkansas	Pine Bluff	SBC	43.31	28.24	0.07	93.43	4.00
Arkansas	West Memphis	SBC	56.08	26.44	0.07	94.55	4.00
California	Anaheim	SBC		14.44	0.06	65.62	2.75
California	Bakersfield	SBC		14.44	0.06	65.62	2.75
California	Fresno	SBC		15.02	0.06	65.62	2.75
California	Long Beach	Verizon		26.71	0.08	92.51	1.95
California	Los Angeles	SBC		16.52	0.06	72.18	2.75
California	Oakland	SBC		15.52	0.06	70.54	2.75
California	Salinas	SBC		16.01	0.06	69.55	2.75
California	San Bernadino	Verizon		26.35	0.08	91.25	1.95
California	San Diego	SBC		14.44	0.06	65.62	2.75
California	San Francisco	SBC		15.52	0.06	70.54	2.75
California	San Jose	SBC		15.16	0.06	65.62	2.75
Colorado	Boulder	Qwest	46.98	26.74	0.14	59.83	4.50
Colorado	Colorado Springs	Qwest	44.22	25.23	0.13	57.90	4.50
Colorado	Denver	Qwest	46.62	26.53	0.14	59.74	4.50
Connecticut	Ansonia	SBC	46.64	27.86	0.18	68.90	3.25
Connecticut	Norwalk	SBC	43.69	27.86	0.18	68.90	3.25
District of Columbia	Washington	Verizon		19.19	0.07	83.25	1.50
Florida	Miami	BellSouth	41.80	32.54	0.12	60.20	5.00
Florida	Tampa	Verizon	42.10			74.07	4.25
Florida	West Palm Beach	BellSouth	39.59	30.23	0.12	59.92	5.00
Georgia	Albany	BellSouth	43.69	36.19	0.12	58.25	5.00
Georgia	Atlanta	BellSouth	61.02	50.01	0.12	58.25	5.00
Hawaii	Honolulu	Verizon	50.70			49.62	4.25
Illinois	Chicago	Ameritech		12.51	0.10	59.99	4.29
Illinois	Decatur	Ameritech		20.06	0.10	59.55	4.29
Illinois	Rock Island	Ameritech		19.65	0.10	59.55	4.29
Indiana	Indianapolis	Ameritech	57.97	34.22	0.16	59.00	2.50
Indiana	Terre Haute	Verizon	38.66			68.78	4.25
Iowa	Fort Dodge	Frontier	26.99			21.60	3.00
Kentucky	Louisville	BellSouth	48.78	48.95	0.06	73.00	5.00
Louisiana	Baton Rouge	BellSouth	43.82	35.06	0.06	87.55	5.00
Louisiana	New Orleans	BellSouth	42.93	34.85	0.06	87.55	5.00
Maine	Portland	Verizon	44.68			58.80	2.75
Maryland	Baltimore	Verizon		22.21	0.09	87.00	1.50
Massachusetts	Boston	Verizon		18.76	0.11	97.67	2.95
Massachusetts	Hyannis	Verizon	48.42	18.76	0.11	97.67	0.95
Massachusetts	Springfield	Verizon		18.76	0.10	97.67	1.95
Michigan	Detroit	Ameritech		22.59	0.09	46.62	4.29
Michigan	Grand Rapids	Ameritech		20.97	0.09	44.52	4.29
Michigan	Saginaw	Ameritech		21.72	0.09	44.52	4.29
Minnesota	Detroit Lakes	Qwest	43.81	27.44	0.09	51.01	3.95
Minnesota	Minneapolis	Qwest	53.58	34.37	0.09	51.25	3.95
Mississippi	Pascagoula	BellSouth	48.56	40.07	0.06	71.69	5.00
Missouri	Kansas City	SBC	46.90	28.03	0.08	60.87	5.50
Missouri	Mexico	SBC	38.49	23.50	0.08	59.96	5.50
Missouri	St. Louis	SBC	47.34	28.19	0.08	61.98	5.50
Montana	Butte	Qwest	42.25	26.79	0.10	61.40	4.50
Nebraska	Grand Island	Qwest	39.14	30.27	0.10	51.02	4.50
New Jersey	Phillipsburg	Verizon		17.77	0.07	80.27	1.50
New Mexico	Alamogordo	Qwest	45.26	22.39	0.16	57.47	4.50

Table 1.10
Telephone Rates in the Sample Cities for a Business with a Single Line - Continued
(As of October 15, 2001)

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			
New York	Binghamton	Verizon		23.42	0.11	118.97	5.71
New York	Buffalo	Verizon		23.75	0.11	121.13	5.71
New York	Massena	Verizon		23.26	0.11	118.27	5.71
New York	New York City	Verizon		23.85	0.11	121.73	5.71
New York	Ogdensburg	Verizon		23.91	0.11	121.60	5.71
New York	Rochester	Frontier		18.65	0.12	56.60	
North Carolina	Raleigh	BellSouth	41.55			66.95	5.00
North Carolina	Rockingham	BellSouth	36.77			66.95	5.00
Ohio	Canton	Ameritech		34.37	0.08	62.85	4.29
Ohio	Cincinnati	Cincinnati Bell	53.71	39.00	0.15	49.75	3.75
Ohio	Cleveland	Ameritech		29.74	0.08	62.85	4.29
Ohio	Columbus	Ameritech		29.74	0.08	62.85	4.29
Ohio	Toledo	Ameritech		31.64	0.08	62.85	4.29
Oregon	Corvallis	Qwest	37.15	27.62	0.15	31.93	4.50
Oregon	Portland	Qwest	38.84	29.16	0.15	31.93	4.50
Pennsylvania	Allentown	Verizon		22.87	0.07	79.50	1.50
Pennsylvania	Ellwood City	Verizon		25.60	0.07	79.50	1.50
Pennsylvania	Johnstown	Verizon	41.61	23.20	0.14	60.44	4.25
Pennsylvania	New Castle	Verizon		25.60	0.07	79.50	1.50
Pennsylvania	Philadelphia	Verizon		17.13	0.07	79.50	1.50
Pennsylvania	Pittsburgh	Verizon		19.86	0.07	79.50	1.50
Pennsylvania	Scranton	Verizon		22.87	0.07	79.50	1.50
Rhode Island	Providence	Verizon		25.15	0.21	47.73	2.95
South Carolina	Beaufort	Sprint	39.17	25.92	0.12	35.60	3.00
Tennessee	Memphis	BellSouth	56.45	38.17	0.11	66.91	4.00
Tennessee	Nashville	BellSouth	55.19	37.86	0.10	63.33	4.00
Texas	Brownsville	SBC	34.63	23.39	0.08	69.45	5.50
Texas	Corpus Christi	SBC	31.88	21.36	0.08	64.35	5.50
Texas	Dallas	SBC	39.90	27.11	0.08	70.80	5.50
Texas	Fort Worth	SBC	38.06	25.59	0.08	70.87	5.50
Texas	Houston	SBC	40.61	27.40	0.08	64.57	5.50
Texas	San Antonio	SBC	33.84	22.61	0.08	64.27	5.50
Utah	Logan	Qwest	29.30			53.48	4.50
Virginia	Richmond	Verizon	78.83	25.79	0.10	64.00	3.00
Virginia	Smithfield	Verizon	53.89	21.43	0.16	40.00	2.75
Washington	Everett	Verizon	39.63	25.47	0.10	70.67	4.25
Washington	Seattle	Qwest	38.49	27.90	0.07	55.45	4.50
West Virginia	Huntington	Verizon	60.72	29.14	0.16	79.00	3.00
Wisconsin	Milwaukee	Ameritech		21.57	0.09	68.27	4.29
Wisconsin	Racine	Ameritech		21.49	0.09	67.95	4.29

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	1998	1999	2000	2001
Alabama	Huntsville	\$61.61	\$62.49	\$62.74	\$61.58	\$60.55	\$56.15	\$53.46	\$50.90	\$48.40	\$45.97	\$46.91	\$47.62
Alaska	Anchorage	21.99	21.99	29.16	33.33	31.04	31.05	31.05	31.08	31.12	31.11	31.11	31.87
Arizona	Tucson	33.90	40.65	40.72	40.72	40.72	41.73	41.71	42.00	42.00	42.01	42.68	43.41
Arkansas	Pine Bluff	42.77	42.92	43.10	42.93	41.10	40.91	41.05	41.13	41.13	41.39	42.53	43.31
Arkansas	West Memphis	52.15	56.05	56.19	55.52	53.30	53.70	53.85	53.03	53.80	54.14	55.06	56.08
California	Anaheim	27.81	28.88	29.24	29.10	29.10	30.43	30.65	30.25	30.28	28.34	27.20	27.39
California	Bakersfield	28.37	29.50	29.29	29.15	29.15	31.06	31.29	30.64	30.92	28.23	27.20	27.97
California	Fresno	29.11	30.33	30.11	29.97	29.97	31.06	31.29	31.10	30.92	28.11	27.78	27.97
California	Long Beach	35.16	38.10	38.39	38.39	36.92	43.95	43.84	40.67	43.84	43.84	44.81	44.67
California	Los Angeles	30.58	31.76	31.52	31.38	31.38	33.36	33.60	31.75	33.16	30.24	30.55	30.13
California	Oakland	29.34	30.75	30.52	30.67	30.67	32.63	32.86	NA	32.45	29.58	29.24	29.45
California	Salinas	30.66	31.08	30.85	30.71	31.00	32.97	33.21	31.10	32.79	29.94	29.54	29.75
California	San Bernadino	31.42	37.41	37.86	37.86	36.41	43.35	43.25	43.29	43.25	43.25	44.20	44.64
California	San Diego	27.81	28.88	28.67	28.54	28.54	30.43	30.65	30.56	30.30	27.62	27.20	27.39
California	San Francisco	29.20	30.46	30.52	30.67	31.18	32.63	33.38	33.29	32.45	29.58	29.24	29.45
California	San Jose	29.20	30.32	30.10	29.96	29.96	31.90	32.13	32.02	31.33	28.93	28.56	28.76
Colorado	Boulder	43.91	46.15	46.46	46.94	46.88	47.16	47.15	47.03	46.94	45.52	46.25	46.98
Colorado	Colorado Springs	38.89	43.21	43.65	44.64	44.27	43.82	44.42	44.42	44.40	42.87	43.51	44.22
Colorado	Denver	44.23	46.47	46.58	46.62	46.69	46.68	46.65	46.59	46.57	45.22	45.89	46.62
Connecticut	Ansonia	33.04	35.39	35.39	41.81	40.76	43.70	43.70	43.70	43.65	44.39	45.67	46.64
Connecticut	Norwalk	36.53	39.47	38.70	38.70	37.91	40.86	40.86	40.86	40.70	41.46	42.72	43.69
DC	Washington	34.60	34.73	33.88	35.32	35.32	33.37	39.17	37.84	34.85	35.81	36.34	36.28
Florida	Miami	40.60	37.65	41.44	41.88	40.65	40.65	40.67	40.13	37.40	40.64	41.63	41.80
Florida	Tampa	40.70	40.91	41.53	37.66	37.66	37.87	41.09	41.09	41.18	41.18	42.21	42.10
Florida	West Palm Beach	38.43	37.81	38.15	38.60	39.47	37.39	38.13	38.67	40.66	37.38	38.60	39.59
Georgia	Albany	42.67	41.87	39.14	39.70	39.74	39.74	41.00	41.00	41.15	41.70	42.98	43.69
Georgia	Atlanta	53.32	53.61	53.61	53.61	53.64	58.82	58.87	58.87	58.81	58.81	60.25	61.02
Hawaii	Honolulu	40.17	40.25	40.25	41.85	42.74	44.39	46.09	47.32	47.32	47.32	48.20	50.70
Illinois	Chicago	34.17	34.20	33.87	34.13	34.12	32.12	31.91	31.91	33.74	35.12	36.12	35.86
Illinois	Decatur	37.89	37.92	37.76	38.02	38.01	35.96	35.71	35.15	40.17	42.49	43.49	43.03
Illinois	Rock Island	38.66	38.57	38.39	38.65	38.64	36.58	36.58	35.77	40.79	42.02	43.08	42.63
Indiana	Indianapolis	60.85	60.85	59.96	60.24	57.46	56.78	55.84	55.84	55.84	56.07	57.27	57.97
Indiana	Terre Haute	46.39	46.98	46.98	46.98	47.07	47.07	47.03	47.03	43.91	43.91	37.99	38.66
Iowa	Fort Dodge	20.51	22.17	22.17	22.17	22.44	22.44	22.44	22.44	25.95	25.34	26.26	26.99
Kentucky	Louisville	58.75	61.01	60.96	60.96	60.96	61.01	55.87	56.84	45.27	45.33	48.75	48.78
Louisiana	Baton Rouge	52.31	51.44	51.44	51.65	48.55	49.50	47.76	46.12	45.40	41.53	42.43	43.82
Louisiana	New Orleans	55.31	55.70	55.22	55.71	50.21	50.21	46.30	46.34	45.64	41.30	42.22	42.93
Maine	Portland	40.13	40.52	40.52	40.52	40.54	38.63	38.82	39.75	41.33	43.06	43.78	44.68
Maryland	Baltimore	42.64	43.10	44.97	43.57	43.57	43.57	43.57	43.60	43.16	43.12	44.14	43.80
Massachusetts	Boston	36.90	43.41	54.10	49.77	43.22	42.78	42.78	42.78	42.78	42.78	42.99	40.02
Massachusetts	Hyannis	32.16	32.16	43.42	46.92	46.92	46.92	46.92	48.38	48.38	48.38	47.72	48.42
Massachusetts	Springfield	35.29	37.28	38.89	49.77	43.22	38.89	38.89	38.89	38.89	38.89	39.31	40.02
Michigan	Detroit	36.17	34.50	36.31	36.35	37.02	37.81	40.89	40.89	38.32	40.68	43.28	45.54
Michigan	Grand Rapids	34.48	34.49	34.63	34.62	35.29	36.02	35.81	35.88	36.66	37.57	39.97	41.52
Michigan	Saginaw	34.29	34.29	34.43	34.45	35.11	36.59	37.95	39.14	37.46	38.35	40.71	45.52
Minnesota	Detroit Lakes	42.14	42.34	42.34	42.37	42.35	42.41	42.41	42.28	42.28	42.29	43.22	43.81
Minnesota	Minneapolis	53.25	53.50	53.50	54.93	54.91	54.98	54.98	54.85	54.85	52.05	52.99	53.58
Mississippi	Pascagoula	56.05	56.75	56.56	56.59	57.33	57.33	57.41	56.16	55.88	55.88	54.51	48.56
Missouri	Kansas City	50.19	50.25	50.25	50.33	46.02	45.57	45.57	45.15	45.15	45.34	46.37	46.90
Missouri	Mexico	35.87	35.93	35.93	36.00	32.28	36.13	36.13	36.29	36.29	36.29	37.64	38.49
Missouri	St. Louis	49.26	49.32	49.32	49.39	46.02	45.15	45.15	45.10	45.10	45.40	46.64	47.34
Montana	Butte	45.26	45.26	45.26	43.82	43.82	43.82	43.82	44.07	45.36	42.29	41.84	42.25
Nebraska	Grand Island	47.77	47.84	47.85	47.87	47.87	47.84	47.79	47.79	47.57	49.51	44.78	39.14
New Jersey	Phillipsburg	27.84	27.84	27.58	27.58	27.58	27.58	26.65	26.51	27.86	27.86	28.79	29.50
New Mexico	Alamogordo	55.38	54.76	55.31	55.48	55.84	56.03	56.20	56.37	56.37	50.20	44.55	45.26

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

State	City	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
New York	Binghamton	44.96	52.14	51.24	51.24	51.24	49.77	49.68	48.07	45.44	48.03	47.91	47.02
New York	Buffalo	46.20	53.47	52.56	52.56	50.80	50.58	50.49	49.12	49.08	48.82	48.69	47.76
New York	Massena	45.10	52.30	51.39	51.39	49.67	49.46	49.37	49.09	49.05	47.74	47.61	46.72
New York	New York	51.71	53.39	52.91	52.91	51.13	50.92	50.73	50.07	48.03	49.05	48.91	47.98
New York	Ogdensburg	53.73	53.77	52.84	52.84	51.07	50.85	50.76	49.78	47.74	49.08	48.95	48.03
New York	Rochester	47.24	50.69	51.23	50.34	49.84	48.28	48.28	48.86	48.82	44.30	44.77	44.23
North Carolina	Raleigh	43.22	43.88	41.98	41.98	41.76	41.53	40.74	39.94	39.96	39.96	40.86	41.55
North Carolina	Rockingham	37.01	37.69	36.63	36.63	36.42	36.11	35.32	34.52	34.52	34.52	36.08	36.77
Ohio	Canton	44.48	44.48	44.48	44.48	44.48	44.22	44.22	44.22	43.11	43.96	44.84	45.51
Ohio	Cincinnati	51.37	51.75	51.75	51.75	53.19	52.99	52.99	51.88	51.37	51.73	55.48	53.71
Ohio	Cleveland	44.48	44.48	44.48	44.48	44.48	43.19	42.16	43.38	40.23	40.20	40.20	40.87
Ohio	Columbus	44.48	44.48	44.48	44.48	44.48	43.19	42.16	42.16	40.23	40.20	40.20	40.87
Ohio	Toledo	44.48	44.48	44.48	44.48	44.48	44.22	44.22	42.16	42.29	41.23	42.11	42.93
Oregon	Corvallis	44.50	46.06	39.59	39.60	39.69	36.99	39.56	39.58	39.83	39.97	38.11	37.15
Oregon	Portland	46.51	47.68	42.89	46.06	46.18	42.79	42.29	42.04	42.00	42.00	42.88	38.84
Pennsylvania	Allentown	35.76	35.76	35.76	36.09	35.98	37.34	37.34	36.53	37.26	37.26	38.15	38.86
Pennsylvania	Ellwood City	38.43	38.43	38.43	38.81	36.52	36.52	38.81	39.99	39.99	39.99	40.88	41.59
Pennsylvania	Johnstown	36.97	38.24	37.65	37.63	37.70	37.37	37.72	37.26	40.01	40.01	40.94	41.61
Pennsylvania	New Castle	38.43	38.43	38.43	38.81	38.81	38.81	38.81	38.53	39.99	39.99	40.88	41.59
Pennsylvania	Philadelphia	30.46	30.46	30.46	30.63	30.63	30.63	28.55	29.99	31.53	31.53	32.42	33.13
Pennsylvania	Pittsburgh	30.46	30.46	30.46	30.63	30.63	31.72	31.72	31.72	31.53	34.26	35.15	35.86
Pennsylvania	Scranton	35.76	35.76	35.76	35.76	35.98	35.98	37.34	37.26	37.26	37.26	38.15	38.86
Rhode Island	Providence	43.87	43.78	47.74	50.25	48.44	48.44	47.82	47.82	47.16	70.51	71.44	69.08
South Carolina	Beaufort	38.71	40.51	38.69	38.69	38.69	38.04	38.04	38.04	38.69	38.69	39.60	39.17
Tennessee	Memphis	54.79	54.70	54.70	54.70	54.70	54.70	54.95	54.95	54.95	54.69	55.71	56.45
Tennessee	Nashville	52.37	52.65	52.65	52.35	52.35	52.35	52.35	52.35	53.77	53.52	54.47	55.19
Texas	Brownsville	30.32	30.03	29.74	29.74	29.23	31.23	31.23	33.82	35.26	31.44	33.83	34.63
Texas	Corpus Christi	30.65	31.12	32.47	32.62	31.90	31.82	31.85	31.01	30.95	29.92	31.16	31.88
Texas	Dallas	36.14	37.83	37.84	39.14	38.66	38.65	38.49	33.35	34.54	38.59	39.11	39.90
Texas	Fort Worth	33.48	33.18	34.92	35.11	34.44	34.50	34.27	37.51	38.81	34.83	37.25	38.06
Texas	Houston	39.70	41.79	41.73	41.83	41.27	41.37	40.35	39.48	42.85	42.85	39.87	40.61
Texas	San Antonio	33.22	32.93	34.67	34.61	34.19	34.14	33.86	30.95	30.95	31.56	33.12	33.84
Utah	Logan	35.42	31.81	31.81	31.84	31.88	31.93	30.22	30.14	28.46	27.82	29.56	29.30
Virginia	Richmond	72.66	72.94	72.68	75.06	75.06	75.06	72.53	72.53	NA	74.56	77.97	78.83
Virginia	Smithfield	30.15	29.98	30.08	30.08	30.08	30.08	30.08	29.98	29.98	29.98	30.94	53.89
Washington	Everett	50.25	46.21	47.50	39.98	39.98	39.98	39.98	39.98	39.98	41.37	42.31	39.63
Washington	Seattle	39.08	38.35	38.39	39.43	37.03	37.03	37.03	37.19	36.47	36.47	37.42	38.49
West Virginia	Huntington	69.86	69.86	73.39	73.39	73.39	73.39	75.05	73.03	72.02	72.02	67.31	60.72
Wisconsin	Milwaukee	44.71	42.63	41.54	39.27	37.48	37.48	37.51	39.69	39.69	40.80	41.15	41.85
Wisconsin	Racine	44.45	42.68	41.58	39.40	39.40	39.12	39.16	39.53	39.52	40.63	40.97	41.68

* Rates are based upon flat-rate service where available and measured/message service with 200 5-minute, same-zone, business day calls.

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

State	City	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Alabama	Huntsville	\$92.90	\$97.74	\$73.62	\$73.62	\$73.62	\$73.62	\$69.00	\$69.00	\$69.00	\$69.00	\$69.00	\$69.00
Alaska	Anchorage	34.25	34.25	34.25	34.25	30.75	30.75	30.75	30.75	53.00	53.00	53.00	53.00
Arizona	Tucson	69.97	62.19	62.31	62.31	62.31	62.47	58.91	58.91	58.91	60.03	60.03	60.03
Arkansas	Pine Bluff	101.33	101.67	101.74	101.69	93.44	92.94	93.27	93.19	93.22	93.43	93.43	93.43
Arkansas	West Memphis	101.31	103.69	103.67	102.71	93.60	94.24	94.51	94.61	94.30	94.55	94.55	94.55
California	Anaheim	76.20	70.84	70.25	71.17	69.87	71.64	72.23	73.16	71.10	71.10	65.62	66.03
California	Bakersfield	76.20	70.84	70.25	71.17	69.87	71.64	72.23	73.16	71.10	69.80	65.62	66.03
California	Fresno	76.20	70.84	70.25	71.17	69.87	71.64	72.23	73.16	71.10	69.80	65.62	66.03
California	Long Beach	74.30	83.08	83.78	83.78	80.20	84.33	92.51	92.51	92.51	92.51	92.51	92.31
California	Los Angeles	76.20	70.84	70.25	71.17	69.87	71.64	72.23	73.16	71.10	69.80	72.18	72.63
California	Oakland	76.20	70.84	70.25	71.17	69.87	71.64	72.23	73.16	71.10	69.80	70.54	70.98
California	Salinas	76.20	70.84	70.25	71.17	69.87	71.64	72.23	73.16	71.10	69.80	69.55	69.99
California	San Bernardino	74.30	83.08	83.78	83.78	80.20	84.33	91.25	91.25	91.25	91.25	91.25	91.05
California	San Diego	76.20	70.84	70.25	71.17	69.87	71.64	72.23	73.16	71.10	69.80	65.62	66.03
California	San Francisco	76.20	70.84	70.25	71.17	69.87	71.64	72.23	73.16	71.10	69.80	70.54	70.98
California	San Jose	76.20	70.84	70.25	71.17	69.87	71.64	72.23	73.16	71.10	69.80	65.62	66.03
Colorado	Boulder	90.30	74.66	74.66	74.66	74.84	74.91	75.08	75.08	75.08	60.94	59.83	59.83
Colorado	Colorado Springs	90.53	74.11	73.68	73.68	72.80	72.80	72.80	72.80	72.80	58.97	57.90	57.90
Colorado	Denver	91.12	75.11	75.11	75.11	75.11	75.11	75.11	75.11	75.11	60.84	59.74	59.74
Connecticut	Ansonia	60.00	63.60	63.60	68.90	68.90	68.90	68.90	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	68.90	68.90	68.90	68.90
DC	Washington	70.16	71.09	66.03	66.03	66.03	66.03	83.25	83.25	83.25	83.25	83.25	83.25
Florida	Miami	57.84	57.77	57.77	58.32	59.92	60.20	60.20	60.20	59.92	60.20	60.20	64.45
Florida	Tampa	67.15	67.59	67.59	78.89	78.89	78.89	74.07	74.07	74.07	74.07	74.07	74.07
Florida	West Palm Beach	57.84	57.77	57.77	58.32	59.92	59.92	59.92	59.92	60.20	59.92	59.92	64.39
Georgia	Albany	52.25	52.25	52.25	52.25	52.25	52.25	52.25	58.25	58.25	58.25	58.25	58.25
Georgia	Atlanta	52.25	52.25	52.25	52.25	52.25	52.25	52.25	58.25	58.25	58.25	58.25	58.25
Hawaii	Honolulu	45.50	47.50	47.50	47.50	47.50	47.50	51.47	52.97	52.97	54.97	49.62	49.62
Illinois	Chicago	93.64	93.68	93.03	93.03	93.03	57.64	57.64	57.64	57.64	59.99	59.99	58.42
Illinois	Decatur	93.30	93.33	93.17	93.17	93.17	57.72	57.72	57.72	57.72	59.55	59.55	57.98
Illinois	Rock Island	93.36	93.40	93.17	93.17	93.17	57.72	57.72	57.72	57.72	59.55	59.55	57.98
Indiana	Indianapolis	59.00	59.00	59.00	59.00	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	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	22.22	21.60	21.60	21.80
Kentucky	Louisville	47.57	47.50	47.50	47.50	47.50	47.50	73.00	73.00	73.00	73.00	73.00	77.38
Louisiana	Baton Rouge	90.44	90.40	90.40	88.06	88.06	87.55	87.55	87.55	87.55	87.55	87.55	91.93
Louisiana	New Orleans	90.44	91.28	90.40	88.40	87.55	87.55	87.55	87.55	87.55	87.55	87.55	87.55
Maine	Portland	58.80	59.36	59.36	59.36	59.36	59.36	59.36	59.36	59.08	59.08	58.80	58.80
Maryland	Baltimore	70.00	70.00	70.00	98.50	98.50	98.50	98.50	98.50	87.00	87.00	87.00	87.00
Massachusetts	Boston	45.58	93.33	97.67	97.67	97.67	97.67	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	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	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	44.52	46.62	46.62	46.62
Michigan	Grand Rapids	43.68	43.68	43.68	43.68	43.68	44.52	44.52	44.52	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	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	51.01	51.01	51.01	51.01
Minnesota	Minneapolis	34.00	34.00	47.50	49.50	49.50	49.50	48.15	51.25	51.25	51.25	51.25	51.25
Mississippi	Pascagoula	76.90	77.58	77.58	71.69	71.69	71.69	71.69	71.69	71.69	71.69	71.69	71.69
Missouri	Kansas City	70.55	70.55	70.55	70.55	70.78	61.44	61.44	61.50	61.63	61.13	60.87	59.69
Missouri	Mexico	68.55	68.55	68.55	68.55	68.55	59.70	59.70	59.96	60.80	59.96	59.96	59.41
Missouri	St. Louis	70.10	70.10	70.10	70.10	70.78	61.63	61.63	61.63	59.96	61.98	61.98	61.46
Montana	Butte	64.40	64.40	64.40	61.40	61.40	61.40	61.40	61.40	61.40	61.40	61.40	61.25
Nebraska	Grand Island	69.96	69.96	71.94	49.05	49.05	49.05	49.13	49.13	49.13	51.02	51.02	51.02
New Jersey	Phillipsburg	79.50	79.50	79.50	79.50	79.50	79.50	80.27	80.27	80.27	80.27	80.27	80.27
New Mexico	Alamogordo	74.20	64.61	64.72	64.72	57.46	57.47	57.29	57.29	57.29	57.29	57.47	57.47
New York	Binghamton	146.39	146.63	145.13	120.48	120.48	120.92	120.68	120.46	122.51	120.34	118.97	118.97
New York	Buffalo	149.10	150.61	149.09	123.77	123.65	123.08	122.85	122.62	123.00	122.51	121.13	121.13
New York	Massena	146.86	147.12	145.62	120.88	120.77	120.20	119.98	119.75	123.10	119.64	118.27	118.27
New York	New York	151.17	151.53	150.15	124.64	124.53	123.95	123.45	123.22	120.34	123.10	121.73	121.73
New York	Ogdensburg	150.99	151.26	149.71	124.28	124.17	123.58	123.35	123.12	119.64	123.00	121.60	121.60
New York	Rochester	37.80	59.61	59.44	58.28	57.16	55.56	55.56	55.56	57.27	57.27	56.60	56.60
North Carolina	Raleigh	62.50	64.38	64.38	64.38	64.38	64.38	64.38	66.95	66.95	66.95	66.95	66.95
North Carolina	Rockingham	62.50	64.38	64.38	64.38	64.38	64.38	64.38	66.95	66.95	66.95	66.95	66.95

Table 1.12
Connection Charges for a Single Business Line in the Sample Cities - Continued*
(As of October 15)

State	City	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Ohio	Canton	72.15	72.15	72.15	72.15	72.15	62.85	62.85	62.85	62.85	62.85	62.85	62.85
Ohio	Cincinnati	54.00	54.00	54.00	54.00	55.78	55.78	55.78	55.78	49.75	49.75	49.75	49.75
Ohio	Cleveland	72.15	72.15	72.15	72.15	72.15	62.85	62.85	62.85	62.85	62.85	62.85	62.85
Ohio	Columbus	72.15	72.15	72.15	72.15	72.15	62.85	62.85	62.85	62.85	62.85	62.85	62.85
Ohio	Toledo	72.15	72.15	72.15	72.15	72.15	62.85	62.85	62.85	62.85	62.85	62.85	62.85
Oregon	Corvallis	31.00	31.00	31.00	31.00	31.00	31.00	31.93	31.93	31.93	31.93	31.93	31.93
Oregon	Portland	31.15	31.00	31.00	31.00	31.00	31.00	31.00	31.93	31.93	31.93	31.93	31.93
Pennsylvania	Allentown	79.50	79.50	79.50	79.50	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	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	60.44	60.44	60.44	60.44
Pennsylvania	New Castle	79.50	79.50	79.50	79.50	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	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	79.50	79.50	79.50	79.50
Pennsylvania	Scranton	79.50	79.50	79.50	79.50	79.50	79.50	79.50	79.50	79.50	79.50	79.50	79.50
Rhode Island	Providence	38.84	38.84	39.03	39.03	46.50	46.50	46.50	46.50	47.73	47.73	47.73	47.73
South Carolina	Beaufort	35.60	35.60	35.60	35.60	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	63.62	66.82	66.91	66.92
Tennessee	Nashville	63.12	63.62	63.62	63.62	63.62	63.62	63.62	63.62	68.37	63.33	63.33	63.33
Texas	Brownsville	71.04	67.81	67.17	67.17	64.57	69.00	69.00	68.99	69.45	69.45	69.45	69.45
Texas	Corpus Christi	72.16	69.31	72.32	72.64	69.45	69.29	69.34	70.72	64.27	64.35	64.35	64.35
Texas	Dallas	73.07	73.60	73.35	73.64	70.91	70.91	70.61	68.82	64.57	70.80	70.80	70.80
Texas	Fort Worth	72.42	69.13	72.75	73.14	70.09	70.21	69.75	67.87	70.28	70.87	70.87	70.87
Texas	Houston	72.78	73.67	73.57	73.74	70.89	70.93	69.18	70.32	71.20	64.57	64.57	64.57
Texas	San Antonio	71.72	68.47	72.10	71.97	69.45	69.34	68.78	68.78	70.72	64.27	64.27	64.27
Utah	Logan	70.49	53.13	53.13	53.13	53.06	53.06	53.06	53.00	53.00	53.66	53.48	53.48
Virginia	Richmond	64.00	64.00	64.00	64.00	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	29.25	40.00	40.00	40.00
Washington	Everett	60.18	41.24	42.20	57.19	57.19	57.19	70.67	70.67	70.67	70.67	70.67	70.67
Washington	Seattle	56.33	56.02	55.73	55.43	55.25	55.25	55.25	55.45	55.45	55.45	55.45	55.45
West Virginia	Huntington	96.90	96.90	96.90	96.90	96.90	96.90	96.90	96.90	79.00	79.00	79.00	79.00
Wisconsin	Milwaukee	71.54	68.21	68.21	68.21	68.21	68.21	68.27	68.27	67.95	68.27	68.27	68.27
Wisconsin	Racine	71.54	68.21	68.21	68.21	68.21	67.88	67.95	67.95	72.60	67.95	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, 2001)

	Average Rate	Median Rate
Monthly Charge for Flat-Rate Service	\$44.03	\$41.21
Federal and State Subscriber Line Charges	7.44	7.84
Additional Monthly Charge for Touch-Tone Service	0.41	0.00
Taxes, 911, and Other Charges	7.28	5.81
Total Monthly Charge for Flat-Rate Service	\$59.16	\$56.22
Number of Sample Cities with Flat-Rate Service	54	-
Monthly Charge for Measured/Message Service	\$20.44	\$17.91
Federal and State Subscriber Line Charges	6.59	6.58
Additional Monthly Charge for Touch-Tone Service	0.13	0.00
Taxes, 911, and Other Charges	3.79	3.25
Total Monthly Charge for Measured/Message Service	\$30.95	\$29.77
Cost of a 5-Minute Daytime Call	0.09	0.09
Number of Sample Cities with Message/Measured Service	80	-
Basic Connection Charge for Three Lines	\$163.76	\$138.74
Additional Connection Charge for Touch-Tone Service	0.37	0.00
Taxes, 911, and Other Charges	10.72	9.39
Total Connection Charge for Three Lines	\$174.85	\$150.54
Additional Charge if Drop Line and Connection Block Needed	9.66	0.00

Table 1.14
Average Local Rates for Businesses with a Key System Line in Urban Areas
(As of October 15)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Monthly Representative Service Charge*	\$37.19	\$36.74	\$36.92	\$37.18	\$37.36	\$36.98	\$37.34	\$36.98	\$37.25	\$37.30	\$36.99	\$36.48	\$36.79
Subscriber Line Charges	4.87	4.98	4.85	4.78	5.36	5.45	5.61	5.50	5.75	5.82	6.92	6.95	6.68
Extra for Touch-Tone Service	2.65	2.49	1.94	1.82	1.67	1.23	1.00	0.85	0.41	0.33	0.26	0.20	0.19
Taxes, 911 and Other Charges	5.18	5.23	5.13	5.29	5.39	5.37	5.59	5.66	5.81	6.11	5.95	5.82	5.77
Total Monthly Charge	\$49.89	\$49.44	\$48.84	\$49.08	\$49.78	\$49.04	\$49.54	\$49.00	\$49.22	\$49.56	\$50.12	\$49.45	\$49.43
Monthly Charge for Flat-Rate Service	\$44.84	\$44.75	\$44.35	\$44.44	\$44.85	\$44.88	\$45.31	\$45.33	\$44.71	\$45.05	\$43.78	\$42.86	\$44.03
Subscriber Line Charges	5.65	5.68	5.55	5.52	6.02	6.16	6.17	6.10	6.63	7.06	7.70	7.87	7.44
Extra for Touch-Tone Service	2.25	2.15	1.87	1.84	1.76	1.13	1.07	0.96	0.60	0.49	0.47	0.43	0.41
Taxes, including 911 and other Charges	6.77	6.73	6.70	6.83	6.96	6.96	7.16	7.16	7.17	7.79	7.14	7.19	7.28
Total Monthly Charge for Flat-Rate Service	\$59.51	\$59.32	\$58.48	\$58.64	\$59.60	\$59.14	\$59.70	\$59.55	\$59.11	\$60.39	\$59.10	\$58.34	\$59.16
Number of Sample Cities with Flat-Rate Service	59	56	54	54	54	53	53	53	53	54	54	54	54
Monthly Charge for Measured/Message Service	\$20.38	\$20.48	\$19.81	\$19.38	\$19.98	\$19.81	\$20.16	\$20.13	\$21.10	\$20.41	\$20.49	\$20.17	\$20.44
200 Five-Minute, Business-Day, Same-Zone Calls	16.01	16.10	16.88	17.45	17.86	17.66	17.36	17.40	17.33	17.39	17.69	18.09	17.78
Subscriber Line Charges	4.78	4.88	4.74	4.67	5.24	5.35	5.53	5.46	5.61	6.17	6.83	6.85	6.59
Extra for Touch-Tone Service	2.77	2.59	1.99	1.86	1.70	1.24	1.00	0.86	0.36	0.27	0.19	0.13	0.13
Taxes, including 911 and other Charges	4.93	5.10	4.91	5.05	5.20	5.18	5.35	5.55	5.70	6.08	5.95	5.91	5.80
Total Monthly Charge for Measured/Message Service	\$48.87	\$49.14	\$48.33	\$48.41	\$49.98	\$49.24	\$49.40	\$49.40	\$50.10	\$50.32	\$51.15	\$51.15	\$50.74
Number of Sample Cities with Measured/Message Service	77	77	78	78	80	81	81	79	77	80	80	80	80
Cost of a Five-Minute, Business-Day, Same-Zone Call	\$0.09	\$0.09	\$0.09	\$0.10	\$0.10	\$0.09	\$0.09	\$0.09	\$0.09	\$0.09	\$0.09	\$0.10	\$0.09
Basic Connection Charge for Three Lines	\$166.89	\$165.13	\$178.14	\$178.25	\$170.59	\$169.78	\$167.99	\$167.93	\$167.17	\$166.34	\$163.86	\$163.79	\$163.76
Additional Connection Charge for Touch-Tone Service	5.10	5.68	3.40	3.39	3.48	2.75	0.67	0.67	0.52	0.37	0.37	0.37	0.37
Taxes	9.43	9.30	9.67	9.61	9.02	9.00	9.84	10.04	11.04	10.54	11.24	10.71	10.72
Total Connection Charge for Three Lines	\$181.42	\$180.11	\$191.21	\$191.25	\$183.08	\$181.54	\$178.49	\$178.64	\$178.74	\$177.28	\$175.47	\$174.86	\$174.85
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	9.57	9.57	9.69	9.66	9.66

* Rates are based upon flat-rate service where available and measured/message service with 200 5-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	1998	1999	2000	2001
Alabama	Huntsville	\$90.44	\$91.97	\$90.91	\$88.82	\$78.13	\$73.73	\$70.77	\$65.70	\$64.49	\$61.80	\$61.73	\$61.73
Alaska	Anchorage	29.61	29.61	36.01	40.80	41.12	41.13	41.13	41.23	41.23	41.22	41.22	42.01
Arizona	Tucson	45.92	52.66	52.75	52.76	52.76	53.80	53.74	54.92	56.88	56.58	57.23	56.27
Arkansas	Pine Bluff	53.25	53.30	52.78	53.43	51.55	51.24	51.61	51.06	51.06	53.58	52.52	52.21
Arkansas	West Memphis	64.41	69.10	68.51	68.57	65.61	66.02	66.39	55.86	47.36	68.94	68.29	67.55
California	Anaheim	32.54	29.94	30.23	30.09	30.09	32.15	32.51	32.71	33.70	31.76	28.05	27.95
California	Bakersfield	33.10	30.56	30.26	30.12	30.12	32.79	33.14	33.36	34.35	30.69	28.62	28.53
California	Fresno	33.84	31.39	31.08	30.94	30.94	32.79	33.14	33.36	34.35	30.57	28.62	28.53
California	Long Beach	39.26	42.44	42.22	41.24	39.77	46.81	46.70	46.70	46.70	48.45	48.45	47.52
California	Los Angeles	35.78	32.92	32.59	32.44	32.44	35.25	35.64	35.78	36.91	32.94	31.49	30.75
California	Oakland	34.32	31.88	31.56	31.71	31.71	34.48	34.29	34.44	35.56	32.23	30.15	30.05
California	Salinas	35.62	32.19	31.87	31.73	32.03	34.79	35.17	35.34	36.41	32.54	30.45	30.35
California	San Bernadino	48.73	41.67	41.64	40.68	39.23	46.17	46.06	46.06	46.06	47.79	47.79	47.49
California	San Diego	32.54	29.94	29.64	29.50	29.50	32.15	32.51	32.71	33.72	30.09	28.05	27.95
California	San Francisco	34.16	31.58	31.56	31.71	32.22	34.48	35.37	35.01	36.12	32.23	30.15	30.05
California	San Jose	34.16	31.43	31.12	30.97	30.97	33.70	34.07	34.25	35.32	31.51	29.45	29.35
Colorado	Boulder	52.33	52.18	52.54	53.77	54.30	54.59	54.57	56.69	57.68	54.67	56.44	56.22
Colorado	Colorado Springs	47.26	49.14	49.58	51.23	51.33	50.88	51.48	53.63	54.67	53.28	53.21	53.01
Colorado	Denver	52.69	52.53	52.70	53.44	54.12	54.11	54.07	56.22	57.29	56.10	56.04	55.82
Connecticut	Ansonia	39.30	40.29	40.29	47.86	47.95	49.53	49.53	49.53	51.78	52.43	53.59	53.11
Connecticut	Norwalk	42.80	44.37	43.65	44.49	44.68	46.69	46.69	46.69	48.94	49.50	50.64	50.16
DC	Washington	35.20	35.34	35.62	35.73	35.73	33.75	35.79	37.84	35.33	36.34	36.34	36.28
Florida	Miami	61.32	56.68	62.40	63.02	61.80	56.38	56.41	56.48	57.68	57.38	58.02	57.02
Florida	Tampa	61.17	61.43	62.37	62.77	62.77	62.97	67.60	67.60	67.74	57.65	61.28	59.95
Florida	West Palm Beach	58.13	57.16	57.66	58.28	57.12	52.08	53.08	53.22	53.46	53.16	54.51	54.80
Georgia	Albany	63.39	62.06	59.59	60.15	60.18	60.18	62.10	63.16	64.72	65.00	65.49	65.49
Georgia	Atlanta	79.27	79.11	81.39	81.39	81.42	89.45	89.49	89.06	90.28	90.01	90.74	90.82
Hawaii	Honolulu	49.20	50.50	50.47	53.21	54.23	56.41	58.38	62.99	62.99	63.20	63.20	65.56
Illinois	Chicago	34.17	34.20	33.87	34.85	34.84	32.83	32.63	33.31	35.82	37.43	36.80	35.94
Illinois	Decatur	37.89	37.92	37.76	38.74	38.73	36.67	36.43	36.54	42.25	44.79	44.17	43.11
Illinois	Rock Island	38.66	38.57	38.39	39.36	39.35	37.30	37.29	37.17	42.88	44.31	43.76	42.71
Indiana	Indianapolis	68.95	69.12	68.19	69.29	66.22	65.80	64.94	64.00	65.65	65.52	65.97	59.09
Indiana	Terre Haute	69.72	70.32	70.32	70.32	70.41	70.41	70.37	70.37	70.37	68.32	58.89	58.86
Iowa	Fort Dodge	25.01	23.90	28.50	29.09	29.36	37.31	37.31	28.40	28.93	28.32	31.50	31.57
Kentucky	Louisville	89.46	92.72	92.95	93.23	93.23	81.56	76.42	75.57	56.74	56.55	58.97	58.29
Louisiana	Baton Rouge	80.39	78.87	79.04	77.39	74.29	75.28	73.36	72.97	68.70	64.34	64.27	65.33
Louisiana	New Orleans	85.15	85.86	85.30	82.57	75.89	75.89	71.98	72.86	68.61	64.24	64.18	64.18
Maine	Portland	42.84	43.25	43.25	43.25	43.27	41.36	41.55	42.39	46.49	48.11	47.81	48.01
Maryland	Baltimore	44.79	45.47	47.87	46.31	46.20	46.20	46.25	46.52	43.06	46.35	46.33	45.16
Massachusetts	Boston	37.67	44.04	54.91	51.36	45.62	45.49	45.49	45.40	47.92	47.80	47.02	43.35
Massachusetts	Hyannis	32.94	32.79	44.23	48.51	49.32	49.62	49.62	50.99	53.51	53.39	51.75	51.75
Massachusetts	Springfield	36.07	37.91	39.70	51.36	45.62	41.59	41.59	41.51	44.03	43.91	43.35	43.35
Michigan	Detroit	36.53	34.85	36.78	38.36	39.07	39.86	42.93	42.09	40.70	42.76	44.41	45.98
Michigan	Grand Rapids	35.90	35.91	35.08	36.54	37.24	37.97	37.75	37.02	38.92	39.48	41.01	41.93
Michigan	Saginaw	35.70	35.70	34.88	36.37	37.07	38.58	39.93	40.29	39.72	40.27	41.75	45.92
Minnesota	Detroit Lakes	43.18	44.76	44.85	47.48	49.05	49.34	48.73	48.93	50.24	49.82	46.07	48.20
Minnesota	Minneapolis	54.30	54.28	56.57	60.07	61.64	61.93	61.33	61.52	62.84	55.21	55.85	57.99
Mississippi	Pascagoula	85.07	86.02	85.26	82.93	83.67	83.67	84.39	84.86	85.87	85.61	82.05	72.06
Missouri	Kansas City	63.68	63.37	63.19	65.22	61.15	60.77	60.96	60.30	60.30	62.28	61.64	60.79
Missouri	Mexico	45.17	44.87	44.70	46.65	43.29	48.72	48.92	49.11	49.11	50.96	53.77	52.99
Missouri	St. Louis	62.49	62.19	62.01	64.01	61.15	60.22	60.40	60.37	60.37	62.38	62.00	61.37
Montana	Butte	56.07	56.07	56.07	54.63	54.28	54.63	54.63	56.44	59.27	56.40	55.58	55.29
Nebraska	Grand Island	58.74	58.39	57.92	59.09	60.17	59.86	60.02	60.69	61.78	63.62	58.60	51.07
New Jersey	Phillipsburg	23.23	26.80	26.21	27.42	27.42	27.42	31.97	31.72	33.95	33.99	34.20	34.21

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

State	City	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
New Mexico	Alamogordo	67.06	66.11	66.41	67.32	67.71	67.90	68.07	70.26	71.54	65.58	59.00	59.00
New York	Binghamton	47.72	54.55	53.05	53.77	53.77	52.55	52.46	50.77	53.32	53.19	52.06	50.44
New York	Buffalo	48.98	55.91	54.39	55.12	53.58	53.36	53.27	51.55	54.10	53.98	52.84	51.19
New York	Massena	47.85	54.71	53.21	53.93	52.21	52.21	52.13	50.44	52.97	52.85	51.72	50.12
New York	New York	54.49	55.84	54.75	55.47	53.70	53.71	53.52	51.79	54.34	54.22	53.07	51.42
New York	Ogdensburg	87.36	56.25	54.71	55.44	53.90	53.68	53.59	51.86	54.46	54.33	53.18	51.52
New York	Rochester	50.60	52.34	56.65	56.22	55.70	54.17	54.17	51.56	49.89	48.73	51.10	49.63
North Carolina	Raleigh	65.42	66.01	63.48	63.48	62.73	63.08	62.28	60.44	61.70	59.14	59.08	59.08
North Carolina	Rockingham	56.11	56.73	55.13	55.13	54.92	54.61	53.82	52.71	54.54	53.70	54.29	54.29
Ohio	Canton	48.97	48.83	48.99	49.92	49.92	50.25	50.25	49.24	49.39	49.83	50.13	49.74
Ohio	Cincinnati	62.90	63.83	64.00	64.61	66.97	70.26	70.26	70.26	79.63	80.36	83.15	89.11
Ohio	Cleveland	48.97	48.83	48.99	49.92	49.92	49.22	48.19	47.18	46.51	46.07	45.50	45.10
Ohio	Columbus	48.97	48.83	48.99	49.92	49.92	49.22	48.19	47.18	46.51	46.07	45.50	45.10
Ohio	Toledo	48.97	48.83	48.99	49.92	49.92	50.25	48.19	47.18	48.57	48.13	47.56	47.16
Oregon	Corvallis	48.52	50.01	42.76	43.82	43.91	45.15	47.72	48.14	51.08	46.40	47.43	42.07
Oregon	Portland	50.55	51.65	46.08	50.62	50.76	51.65	50.52	50.64	53.31	48.47	49.07	43.68
Pennsylvania	Allentown	35.42	35.17	35.40	35.82	35.72	37.09	37.45	37.03	37.83	37.71	37.67	37.67
Pennsylvania	Ellwood City	38.09	37.84	38.07	38.55	38.45	38.45	38.45	39.76	40.56	40.44	40.40	40.40
Pennsylvania	Johnstown	44.62	46.44	45.49	46.58	40.82	40.49	40.84	40.82	49.41	51.73	51.72	51.68
Pennsylvania	New Castle	38.09	37.84	38.07	38.55	38.45	38.45	38.81	39.76	40.56	40.44	40.40	40.40
Pennsylvania	Philadelphia	30.07	29.82	30.05	30.36	30.27	30.27	28.55	31.30	32.10	31.98	31.94	31.94
Pennsylvania	Pittsburgh	30.07	29.82	30.05	30.36	30.27	31.36	31.72	31.30	32.10	34.71	34.67	34.67
Pennsylvania	Scranton	35.42	35.17	35.40	36.97	35.72	35.72	37.45	37.03	37.83	37.71	37.67	37.67
Rhode Island	Providence	44.91	44.39	48.48	51.01	50.03	51.20	50.58	50.49	52.40	75.62	75.55	72.41
South Carolina	Beaufort	55.95	61.09	58.69	58.69	58.69	66.61	66.61	68.16	75.91	75.74	75.89	70.67
Tennessee	Memphis	91.94	92.15	92.22	92.22	92.53	92.53	92.94	94.03	95.34	94.63	94.65	94.70
Tennessee	Nashville	87.86	88.42	88.50	88.21	88.51	88.51	88.51	89.60	92.32	91.63	91.60	91.56
Texas	Brownsville	45.97	36.00	35.49	36.92	36.35	38.78	38.96	38.59	38.59	40.69	41.45	40.70
Texas	Corpus Christi	46.48	37.10	38.53	40.21	39.40	39.24	39.45	40.21	40.21	38.30	38.07	37.39
Texas	Dallas	56.98	45.40	45.21	48.06	47.53	47.47	47.45	46.22	47.82	49.03	47.93	47.19
Texas	Fort Worth	51.27	39.74	41.64	43.40	42.65	42.66	42.57	41.39	42.87	44.74	45.51	44.75
Texas	Houston	63.17	50.08	49.83	51.50	50.88	50.94	49.87	50.67	51.71	53.09	48.61	47.92
Texas	San Antonio	50.87	39.43	41.34	42.79	42.34	42.21	42.06	41.83	42.73	40.38	40.46	39.79
Utah	Logan	41.44	37.30	37.60	39.55	39.99	40.29	38.59	38.97	38.95	37.53	39.16	36.87
Virginia	Richmond	76.13	76.41	76.15	78.94	79.52	79.52	76.94	76.96	NA	80.03	80.93	80.93
Virginia	Smithfield	32.98	32.81	32.91	45.98	45.98	45.98	45.98	58.50	58.50	62.12	62.12	92.49
Washington	Everett	70.13	64.73	66.45	64.54	64.54	59.54	59.54	59.54	59.54	65.15	55.59	49.90
Washington	Seattle	43.08	41.01	41.44	43.91	41.49	55.01	41.72	42.00	41.49	40.85	41.84	41.17
West Virginia	Huntington	73.96	73.96	77.69	77.69	77.69	77.69	79.34	79.12	77.18	76.81	71.40	71.42
Wisconsin	Milwaukee	48.07	43.07	42.14	39.87	39.10	39.03	38.96	40.55	41.94	42.80	42.43	41.97
Wisconsin	Racine	47.81	43.13	42.17	40.00	40.00	40.66	40.59	40.39	41.76	42.62	42.25	41.80

* Rates are based upon flat-rate service where available and measured/message service with 200 5-minute, same-zone, business day calls elsewhere.

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	1998	1999	2000	2001
Alabama	Huntsville	\$222.24	\$233.82	\$99.23	\$99.23	\$99.23	\$99.23	\$93.00	\$93.00	\$93.00	\$93.00	\$93.00	\$93.00
Alaska	Anchorage	65.25	65.25	65.25	65.25	54.75	54.75	54.75	111.00	111.00	111.00	111.00	111.00
Arizona	Tucson	253.22	229.90	230.31	230.31	230.31	220.89	217.76	217.76	217.76	221.91	221.91	221.91
Arkansas	Pine Bluff	303.99	305.01	305.23	305.06	280.32	278.81	279.82	289.57	289.64	290.30	290.30	290.30
Arkansas	West Memphis	303.93	311.08	311.02	308.13	280.80	282.72	283.53	293.01	293.01	293.79	293.79	293.79
California	Anaheim	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54	303.74	303.74	280.32	282.09
California	Bakersfield	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54	303.74	298.21	280.32	282.09
California	Fresno	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54	303.74	298.21	280.32	282.09
California	Long Beach	186.14	208.14	209.89	209.89	200.93	209.08	229.36	229.36	226.24	152.94	152.94	152.94
California	Los Angeles	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54	303.74	298.21	308.35	310.29
California	Oakland	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54	303.74	298.21	301.34	303.24
California	Salinas	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54	303.74	298.21	297.14	299.01
California	San Bernardino	186.14	208.14	209.89	209.89	200.93	209.08	226.24	226.24	226.24	150.86	150.86	150.86
California	San Diego	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54	303.74	298.21	280.32	282.09
California	San Francisco	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54	303.74	298.21	301.34	303.24
California	San Jose	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54	303.74	298.21	280.32	282.09
Colorado	Boulder	297.98	255.98	255.98	255.98	256.58	256.82	257.42	257.78	257.42	216.04	212.72	212.72
Colorado	Colorado Springs	298.73	254.10	252.60	252.60	249.60	249.60	249.60	249.60	249.60	209.09	205.87	205.87
Colorado	Denver	300.70	257.52	257.52	257.52	257.52	257.52	257.52	257.52	257.52	215.72	212.40	212.40
Connecticut	Ansonia	180.00	190.80	190.80	206.70	206.70	206.70	206.70	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	206.70	206.70	206.70	206.70
DC	Washington	124.07	125.72	116.77	116.77	116.77	116.77	147.25	147.25	147.25	147.25	147.25	133.25
Florida	Miami	99.23	99.11	99.11	100.05	85.60	86.00	86.00	86.00	86.00	86.00	86.00	92.07
Florida	Tampa	124.15	124.97	107.76	159.04	159.04	159.04	149.32	149.32	149.32	149.32	149.32	149.32
Florida	West Palm Beach	99.23	99.11	99.11	100.05	85.60	85.60	85.60	85.60	85.60	85.60	85.60	91.99
Georgia	Albany	92.25	92.25	92.25	92.25	92.25	92.25	92.25	118.25	118.25	118.25	118.25	118.25
Georgia	Atlanta	92.25	92.25	92.25	92.25	92.25	92.25	92.25	118.25	118.25	118.25	118.25	118.25
Hawaii	Honolulu	105.50	105.50	105.50	105.50	105.50	105.50	114.31	117.64	117.64	112.01	112.01	112.01
Illinois	Chicago	139.08	139.11	138.18	138.18	138.18	96.17	96.17	96.17	96.17	100.10	100.10	97.48
Illinois	Decatur	138.56	138.60	138.38	138.38	138.38	96.31	96.30	96.30	96.30	99.36	99.36	96.74
Illinois	Rock Island	138.66	138.70	138.38	138.38	138.38	96.31	96.30	96.30	96.30	99.36	99.36	96.74
Indiana	Indianapolis	99.00	99.00	99.00	99.00	99.00	99.00	59.00	87.00	87.00	99.00	99.00	99.00
Indiana	Terre Haute	113.93	114.03	114.03	114.03	114.03	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	28.82	28.65	27.85	27.85	28.11
Kentucky	Louisville	95.64	95.50	95.50	95.50	95.50	95.50	117.00	117.00	117.00	117.00	117.00	124.02
Louisiana	Baton Rouge	215.32	215.24	215.24	181.30	181.30	180.25	153.47	153.47	153.47	153.47	153.47	161.14
Louisiana	New Orleans	215.32	217.33	215.24	182.00	180.25	180.25	153.47	153.47	153.47	153.47	153.47	153.47
Maine	Portland	176.40	178.08	178.08	178.08	178.08	178.08	178.08	178.08	177.24	177.24	176.40	176.40
Maryland	Baltimore	134.00	134.00	134.00	201.50	201.50	201.50	201.50	201.50	201.50	167.50	167.00	167.00
Massachusetts	Boston	98.04	201.44	205.68	205.68	205.68	205.68	205.78	205.78	205.78	205.78	205.78	205.78
Massachusetts	Hyannis	98.04	201.44	205.68	205.68	205.68	205.68	205.78	205.78	205.78	205.78	205.78	205.78
Massachusetts	Springfield	98.04	201.44	205.68	205.68	205.68	205.68	205.78	205.78	205.78	205.78	205.78	205.78
Michigan	Detroit	137.34	131.04	131.04	131.04	133.56	133.56	133.56	133.56	133.56	139.86	139.86	139.86
Michigan	Grand Rapids	131.04	131.04	131.04	131.04	131.04	133.56	133.56	133.56	133.56	133.56	133.56	133.56
Michigan	Saginaw	131.04	131.04	131.04	131.04	133.56	133.56	133.56	133.56	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	184.99	199.37	184.99	184.99	184.99
Minnesota	Minneapolis	67.50	67.50	172.50	178.50	178.50	178.50	191.00	200.30	200.30	185.86	185.86	185.86
Mississippi	Pascagoula	178.73	180.30	180.30	103.79	103.79	103.79	103.79	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	182.40	182.40	183.38	182.60	179.07
Missouri	Mexico	205.65	205.65	205.65	205.65	205.65	179.09	179.09	179.87	179.87	179.87	179.87	178.22
Missouri	St. Louis	210.30	210.30	210.30	210.30	212.33	184.90	184.90	184.90	184.90	185.95	185.95	184.39
Montana	Butte	226.80	226.80	226.80	217.80	217.95	217.80	217.80	217.80	217.80	217.80	217.80	217.35
Nebraska	Grand Island	125.08	125.08	128.62	179.85	179.85	179.85	180.15	180.15	179.30	187.06	187.06	187.06
New Jersey	Phillipsburg	122.50	122.50	122.50	122.50	122.50	122.50	123.69	123.69	123.69	123.69	123.69	123.69
New Mexico	Alamogordo	265.53	236.75	237.17	237.18	216.59	284.40	214.87	214.87	214.87	214.87	215.54	215.54

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

State	City	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
New York	Binghamton	310.67	311.35	308.15	234.20	234.20	235.05	234.60	234.16	233.94	233.94	231.26	231.26
New York	Buffalo	316.43	319.78	316.56	240.59	240.36	239.25	238.81	238.36	238.14	238.14	235.47	235.47
New York	Massena	311.67	312.39	309.19	234.99	234.77	233.66	233.22	232.78	232.56	232.56	229.91	229.91
New York	New York	320.80	321.74	318.80	242.29	242.07	240.95	239.97	239.52	239.30	239.30	236.62	236.62
New York	Ogdensburg	320.43	321.16	317.88	241.59	241.36	240.23	239.78	239.32	239.10	239.10	236.38	236.38
New York	Rochester	71.71	107.51	107.62	105.52	104.34	101.41	101.41	104.94	104.53	104.53	103.31	103.31
North Carolina	Raleigh	105.00	108.15	108.15	108.15	108.15	108.15	108.15	112.27	112.27	112.27	112.27	112.27
North Carolina	Rockingham	105.00	108.15	108.15	108.15	108.15	108.15	108.15	112.27	112.27	112.27	112.27	112.27
Ohio	Canton	175.95	175.95	175.95	175.95	175.95	148.05	148.05	148.05	148.05	116.35	116.35	116.35
Ohio	Cincinnati	162.00	162.00	162.00	162.00	167.34	149.34	149.34	149.34	149.34	168.75	168.75	174.75
Ohio	Cleveland	175.95	175.95	175.95	175.95	175.95	148.05	148.05	148.05	148.05	116.35	116.35	116.35
Ohio	Columbus	175.95	175.95	175.95	175.95	175.95	148.05	148.05	148.05	148.05	116.35	116.35	116.35
Ohio	Toledo	175.95	175.95	175.95	175.95	175.95	148.05	148.05	148.05	148.05	116.35	116.35	116.35
Oregon	Corvallis	93.00	93.00	93.00	93.00	93.00	117.00	120.51	120.51	120.51	120.51	120.51	112.27
Oregon	Portland	93.46	93.00	93.00	93.00	93.00	117.00	120.51	120.51	120.51	120.51	120.51	120.51
Pennsylvania	Allentown	238.50	238.50	238.50	238.50	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	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	121.19	121.19	121.19	121.19
Pennsylvania	New Castle	238.50	238.50	238.50	238.50	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	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	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	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	143.20	143.20	143.20	143.20	143.20
South Carolina	Beaufort	64.60	64.60	64.60	64.60	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	138.26	137.63	137.82	137.85
Tennessee	Nashville	130.02	131.04	131.04	131.04	131.04	131.04	131.04	131.04	131.04	130.44	130.44	130.44
Texas	Brownsville	134.43	124.75	123.57	123.57	115.77	123.71	123.71	134.10	132.91	135.00	135.00	135.00
Texas	Corpus Christi	136.55	127.51	133.04	133.63	124.53	124.23	124.33	126.79	127.46	125.08	125.08	125.08
Texas	Dallas	138.27	135.40	134.94	135.46	127.14	127.13	126.61	123.39	138.40	137.62	137.62	137.62
Texas	Fort Worth	137.04	127.18	133.84	134.55	125.67	125.88	125.05	121.68	136.61	137.76	137.76	137.76
Texas	Houston	137.71	135.52	135.34	135.66	127.11	127.17	124.03	126.08	125.52	125.52	125.52	125.52
Texas	San Antonio	135.72	125.96	132.63	132.39	124.51	124.32	123.32	123.32	124.94	124.94	124.94	124.94
Utah	Logan	255.99	204.00	204.00	204.00	203.75	203.76	203.76	203.52	203.52	206.04	205.37	203.57
Virginia	Richmond	117.60	117.60	117.60	117.60	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	51.25	80.00	80.00	80.00
Washington	Everett	166.92	174.49	178.53	158.61	158.61	178.04	107.36	107.36	107.36	107.36	107.36	107.36
Washington	Seattle	168.99	168.07	167.18	166.28	165.75	203.74	203.74	204.49	204.49	204.49	204.49	204.49
West Virginia	Huntington	168.70	168.70	168.70	168.70	168.70	168.70	168.70	168.70	127.00	127.00	127.00	127.00
Wisconsin	Milwaukee	117.23	111.78	111.78	111.78	111.78	111.78	111.88	111.88	111.88	111.88	111.88	111.88
Wisconsin	Racine	117.23	111.78	111.78	111.78	111.78	111.25	111.35	111.35	111.35	111.35	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, 2001)

	Average Rate	Median Rate
Monthly Charge for Flat-Rate Service	\$49.77	\$46.42
Federal and State Subscriber Line Charges	7.44	7.84
Additional Monthly Charge for Touch-Tone Service	0.52	0.00
Taxes, 911, and Other Charges	8.15	6.01
Total Monthly Charge for Flat-Rate Service	\$65.88	\$61.73
Number of Sample Cities with Flat-Rate Service	54	-
Monthly Charge for Measured/Message Service	\$20.91	\$19.84
Federal and State Subscriber Line Charges	6.64	6.64
Additional Monthly Charge for Touch-Tone Service	0.15	0.00
Taxes, 911, and Other Charges	3.88	3.25
Total Monthly Charge for Measured/Message Service	\$31.58	\$30.95
Cost of a 5-Minute Daytime Call	\$0.09	\$0.09
Number of Sample Cities with Message/Measured Service	78	-
Basic Connection Charge for Three Lines	\$163.15	\$138.74
Additional Connection Charge for Touch-Tone Service	0.37	0.00
Taxes, 911, and Other Charges	10.37	9.39
Total Connection Charge for Three Lines	\$174.25	\$150.54
Additional Charge if Drop Line and Connection Block Needed	9.84	0.00

Table 1.18
Average Local Rates for Businesses with a PBX Trunk in Urban Areas
 (As of October 15)

	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
Monthly Representative Service Charge *	\$39.24	\$39.18	\$40.86	\$40.96	\$40.35	\$39.83	\$40.10	\$40.13	\$40.07	\$40.36	\$39.96	\$39.65	\$39.79
Subscriber Line Charges	4.98	4.98	4.85	4.78	5.36	5.45	5.61	5.57	5.74	5.17	6.92	6.95	6.68
Extra for Touch-Tone Service	3.29	3.29	2.66	2.47	2.38	1.74	1.36	1.13	0.58	0.49	0.39	0.24	0.24
Taxes, 911, and Other Charges	5.63	5.65	5.71	5.90	5.89	5.83	6.05	6.12	6.24	6.27	6.39	6.26	6.19
Total Monthly Charge	\$53.14	\$53.10	\$54.08	\$54.11	\$53.98	\$52.85	\$53.12	\$52.95	\$52.63	\$52.29	\$53.66	\$53.10	\$52.90
Monthly Charge for Flat-Rate Service	\$49.40	\$49.36	\$51.49	\$51.24	\$51.21	\$51.05	\$51.09	\$50.92	\$50.46	\$51.13	\$49.25	\$49.06	\$49.77
Subscriber Line Charges	5.68	5.68	5.55	5.52	6.02	6.16	6.17	6.10	6.61	6.93	7.70	7.87	7.44
Extra for Touch-Tone Service	3.29	2.65	2.32	2.29	2.14	1.40	1.28	1.15	0.73	0.63	0.61	0.53	0.52
Taxes, 911, and Other Charges	7.44	7.49	7.75	7.95	7.98	7.95	8.12	8.09	8.08	8.68	7.99	8.11	8.15
Total Monthly Charge for Flat-Rate Service	\$65.81	\$65.19	\$67.11	\$66.99	\$67.36	\$66.56	\$66.66	\$66.26	\$65.87	\$67.36	\$65.55	\$65.58	\$65.88
Number of Sample Cities with Flat-Rate Service	53	56	54	54	54	53	53	53	53	54	54	54	54
Monthly Charge for Measured/Message Service	\$20.53	\$20.45	\$20.88	\$20.65	\$20.23	\$20.03	\$20.42	\$20.44	\$21.16	\$20.81	\$21.17	\$20.61	\$20.91
200 Five-Minute Business-Day Same-Zone Calls	16.10	16.10	16.57	17.18	17.61	17.41	17.10	17.04	17.22	17.12	17.47	17.97	17.65
Subscriber Line Charges	4.89	4.85	4.76	4.68	5.27	5.34	5.52	5.47	5.63	5.55	6.85	6.85	6.64
Extra for Touch-Tone Service	3.41	3.41	2.69	2.47	2.37	1.72	1.33	1.08	0.54	0.42	0.30	0.15	0.15
Taxes, 911, and Other Charges	5.16	5.16	5.04	5.22	5.25	5.21	5.36	5.51	5.76	5.82	6.04	5.96	5.84
Total Monthly Charge for Measured/Message Service	\$50.09	\$49.97	\$49.93	\$50.20	\$50.73	\$49.71	\$49.73	\$49.54	\$50.31	\$49.72	\$51.83	\$51.54	\$51.19
Number of Sample Cities with Measured/Message Service	77	74	76	76	78	79	79	78	76	78	78	78	78
Cost of a Five-Minute Business-Day Same-Zone Call	\$0.10	\$0.10	\$0.09	\$0.10	\$0.10	\$0.09	\$0.09	\$0.09	\$0.09	\$0.09	\$0.09	\$0.10	\$0.09
Basic Connection Charge for Three Lines	\$164.60	\$164.60	\$178.28	\$178.39	\$170.74	\$169.93	\$168.08	\$168.02	\$166.42	\$165.91	\$163.43	\$163.36	\$163.15
Additional Connection Charge for Touch-Tone Service	5.51	5.51	3.22	3.39	3.48	2.75	0.67	0.67	0.52	0.67	0.37	0.37	0.37
Taxes, 911, and Other Charges	9.20	9.20	9.65	9.61	9.02	9.01	9.84	10.05	11.04	10.56	11.26	10.72	10.73
Total Connection Charge for Three Lines	\$179.31	\$179.31	\$191.16	\$191.39	\$183.23	\$181.69	\$178.59	\$178.73	\$177.99	\$177.14	\$175.06	\$174.46	\$174.25
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	10.10	10.10	9.87	9.84	9.84

* Rates are based upon flat-rate service where available and measured/message service with 200 5-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	1998	1999	2000	2001
Alabama	Huntsville	\$94.73	\$91.97	\$90.91	\$88.82	\$78.13	\$73.73	\$70.77	\$65.70	\$64.49	\$61.80	\$61.73	\$61.73
Alaska	Anchorage	29.61	29.61	36.01	40.80	41.12	41.13	41.13	41.17	43.31	43.29	43.29	44.09
Arizona	Tucson	50.03	58.05	58.14	58.15	58.15	60.04	60.35	61.24	63.20	62.89	63.55	62.87
Arkansas	Pine Bluff	53.25	53.30	52.78	53.43	51.55	51.24	51.61	51.06	51.06	53.58	52.65	52.21
Arkansas	West Memphis	64.41	69.10	68.51	68.57	65.61	66.02	66.39	55.86	47.36	68.94	48.85	67.55
California	Anaheim	32.54	33.98	34.32	30.09	30.09	32.15	32.51	32.71	33.70	31.76	28.05	27.95
California	Bakersfield	33.10	34.61	34.27	30.12	30.12	32.79	33.14	33.36	34.35	33.25	28.62	28.53
California	Fresno	33.84	35.43	35.09	30.94	30.94	32.79	33.14	33.36	34.35	33.12	28.62	28.53
California	Long Beach	39.26	42.44	42.22	41.24	39.77	52.29	52.16	52.16	52.16	53.92	53.92	52.88
California	Los Angeles	35.78	37.37	37.00	32.44	32.44	35.25	35.64	35.78	36.91	35.18	31.49	30.75
California	Oakland	34.32	36.18	35.83	31.71	31.71	34.48	34.85	35.01	36.12	32.23	30.15	30.05
California	Salinas	35.62	36.44	36.08	31.73	32.03	34.79	35.17	35.34	36.41	34.71	30.45	30.35
California	San Bernardino	48.73	41.67	41.64	40.68	39.23	51.57	51.45	51.45	53.18	53.18	53.18	52.84
California	San Diego	32.54	33.98	33.65	29.50	29.50	32.15	32.51	32.71	33.72	32.14	28.05	27.95
California	San Francisco	34.16	35.84	35.83	31.71	32.22	34.48	35.37	35.01	36.12	34.42	30.15	30.05
California	San Jose	34.16	35.68	35.32	30.97	30.97	33.70	34.07	34.25	35.32	33.66	29.45	29.35
Colorado	Boulder	53.59	59.02	59.38	60.65	58.23	58.52	58.50	60.61	61.60	63.43	62.51	62.29
Colorado	Colorado Springs	48.90	55.86	56.21	57.80	55.01	54.56	55.16	57.32	58.35	59.86	58.91	58.70
Colorado	Denver	53.96	59.40	59.57	60.29	58.04	58.03	57.98	60.13	61.20	63.06	62.06	61.84
Connecticut	Ansonia	39.30	40.29	40.29	47.86	47.95	49.53	49.53	49.53	51.78	52.43	53.59	53.11
Connecticut	Norwalk	42.80	44.37	43.65	44.49	44.68	46.69	46.69	46.69	48.94	49.50	50.64	50.16
D.C.	Washington	35.20	35.34	36.23	35.96	35.96	33.97	36.03	37.97	35.33	36.34	36.34	36.28
Florida	Miami	86.87	80.18	88.30	89.15	87.93	81.38	81.40	81.47	82.37	82.37	83.01	80.64
Florida	Tampa	79.88	80.18	81.40	82.77	82.77	65.41	71.06	71.06	71.21	71.21	74.85	73.19
Florida	West Palm Beach	82.25	80.80	81.55	82.38	81.21	75.06	76.56	76.70	76.14	76.14	77.49	77.01
Georgia	Albany	63.39	66.87	62.50	63.07	63.10	63.10	65.08	65.08	67.99	67.99	68.51	68.51
Georgia	Atlanta	79.27	84.99	84.99	84.99	85.02	93.31	93.35	94.41	95.36	95.36	96.14	96.23
Hawaii	Honolulu	60.64	61.93	61.90	65.10	66.30	69.14	71.61	76.60	76.60	76.81	76.81	79.68
Illinois	Chicago	35.31	35.34	35.01	34.85	34.84	32.83	32.63	33.31	35.82	37.43	36.80	35.94
Illinois	Decatur	42.44	42.46	42.30	38.74	38.73	36.67	36.43	36.54	42.25	44.79	44.17	43.11
Illinois	Rock Island	43.21	43.12	42.93	39.36	39.35	37.30	37.29	37.17	42.88	44.31	43.76	42.71
Indiana	Indianapolis	68.95	69.12	68.19	69.29	66.22	65.80	64.94	64.00	65.65	65.52	65.97	59.09
Indiana	Terre Haute	69.72	70.32	70.32	70.32	70.41	70.41	70.37	70.37	70.37	68.32	58.89	58.86
Iowa	Fort Dodge	35.62	36.45	36.45	37.04	37.31	37.31	37.31	44.68	45.11	44.05	47.23	47.27
Kentucky	Louisville	89.46	92.72	92.95	93.23	93.23	81.56	76.42	75.57	56.49	56.55	58.97	58.29
Louisiana	Baton Rouge	80.39	78.87	79.04	77.39	74.29	75.28	73.36	72.97	64.59	64.34	64.27	65.33
Louisiana	New Orleans	85.15	85.86	85.30	82.57	75.89	75.89	71.98	72.86	64.24	64.24	64.18	64.18
Maine	Portland	61.74	62.33	62.33	62.33	62.35	58.75	58.95	60.26	65.08	67.57	67.18	67.38
Maryland	Baltimore	44.79	45.47	47.87	46.31	46.20	46.20	46.25	46.52	43.06	46.35	46.33	45.16
Massachusetts	Boston	40.45	46.82	57.69	54.14	48.40	48.27	48.27	48.18	50.70	50.58	47.02	43.35
Massachusetts	Hyannis	49.12	48.97	66.05	72.06	72.87	73.17	73.17	75.64	78.16	78.04	73.62	73.62
Massachusetts	Springfield	38.85	40.69	42.48	54.14	48.40	44.37	44.37	44.29	46.81	46.69	43.35	43.35
Michigan	Detroit	37.83	36.09	38.08	39.66	40.39	41.18	44.26	43.42	40.70	42.76	44.41	45.98
Michigan	Grand Rapids	37.14	37.15	36.32	37.78	38.51	39.24	37.75	37.02	38.92	39.48	41.01	41.93
Michigan	Saginaw	36.95	36.95	36.12	37.61	38.33	39.87	39.93	40.29	39.72	40.27	41.75	45.92
Minnesota	Detroit Lakes	48.89	48.71	48.80	49.79	51.36	51.65	51.05	50.86	52.17	51.75	52.39	50.13
Minnesota	Minneapolis	61.67	61.55	61.64	61.67	63.24	64.93	64.32	64.14	65.45	61.73	62.37	60.10
Mississippi	Pascagoula	85.07	86.02	85.26	82.93	83.67	83.67	84.39	84.86	85.61	85.61	82.05	72.06
Missouri	Kansas City	63.68	63.37	63.19	65.22	61.15	60.77	60.96	60.30	60.30	62.28	61.64	60.79
Missouri	Mexico	45.17	44.87	44.70	46.65	43.29	48.72	48.92	49.11	49.11	50.96	53.77	52.99
Missouri	St. Louis	62.49	62.19	62.01	64.01	61.15	60.22	60.40	60.37	60.37	62.38	62.00	61.37
Montana	Butte	56.07	56.07	56.07	54.63	54.28	54.63	54.63	56.44	59.27	45.27	58.45	58.16
Nebraska	Grand Island	58.74	66.75	66.29	67.45	68.53	68.22	60.02	60.69	71.24	73.77	71.39	63.86
New Jersey	Phillipsburg	27.11	21.22	26.70	27.42	27.42	27.42	31.97	31.72	34.35	34.38	34.59	34.60
New Mexico	Alamogordo	67.06	69.68	70.04	67.32	67.71	67.90	68.07	70.26	71.54	65.59	64.76	64.76

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

State	City	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
New York	Binghamton	50.88	56.67	54.90	55.62	55.62	52.84	52.75	50.77	53.32	53.19	52.06	50.44
New York	Buffalo	52.20	58.08	56.29	57.02	53.88	53.66	53.57	51.55	54.10	53.98	52.84	51.19
New York	Massena	51.02	56.83	55.07	55.78	52.50	52.51	52.42	50.44	52.97	52.85	51.72	50.12
New York	New York City	57.76	58.02	56.66	57.39	54.00	54.01	53.82	51.79	54.34	54.22	53.07	51.42
New York	Ogdensburg	90.62	58.43	56.61	57.35	54.20	53.98	53.89	51.86	54.46	54.33	53.18	51.52
New York	Rochester	50.60	52.34	56.65	56.22	55.91	54.17	54.17	51.56	49.89	48.73	51.10	49.63
North Carolina	Raleigh	65.42	67.05	64.49	73.62	73.41	72.75	71.69	71.66	72.95	66.57	66.51	66.51
North Carolina	Rockingham	56.11	57.77	56.14	63.77	63.56	62.77	61.71	61.68	62.92	62.67	63.75	63.75
Ohio	Canton	55.56	55.42	55.58	56.52	56.52	54.22	54.22	53.21	53.36	53.80	54.10	53.70
Ohio	Cincinnati	62.90	63.83	64.00	64.61	66.97	70.26	70.26	70.26	79.63	80.36	83.15	89.11
Ohio	Cleveland	55.56	55.42	55.58	56.52	56.52	53.19	52.16	51.15	50.47	50.04	49.46	49.07
Ohio	Columbus	55.56	55.42	55.58	56.52	56.52	53.19	52.16	51.15	50.47	50.04	49.46	49.07
Ohio	Toledo	55.56	55.42	55.58	56.52	56.52	54.22	54.22	51.15	52.53	52.10	51.52	51.13
Oregon	Corvallis	56.89	60.37	47.08	48.14	48.23	45.15	47.72	48.14	51.08	46.40	47.43	44.19
Oregon	Portland	57.17	60.67	47.46	52.11	52.24	51.65	50.52	50.64	53.31	48.47	49.07	45.81
Pennsylvania	Allentown	35.42	35.17	35.40	37.57	37.47	38.84	39.20	37.03	37.83	37.71	37.67	37.67
Pennsylvania	Ellwood City	38.09	37.84	38.07	40.30	40.20	40.20	40.20	39.76	40.56	40.44	40.40	40.40
Pennsylvania	Johnstown	55.65	57.87	56.73	57.78	42.46	42.11	42.47	42.45	60.93	63.24	63.23	63.19
Pennsylvania	New Castle	38.09	37.84	38.07	40.30	40.20	40.20	40.56	39.76	40.56	40.44	40.40	40.40
Pennsylvania	Philadelphia	30.07	29.82	30.05	32.11	32.01	32.01	28.55	31.30	32.10	31.98	31.94	31.94
Pennsylvania	Pittsburgh	30.07	29.82	30.05	32.11	32.01	33.10	33.46	31.30	32.10	34.71	34.67	34.67
Pennsylvania	Scranton	35.42	35.17	35.40	36.97	37.47	37.47	39.20	37.03	37.83	37.71	37.67	37.67
Rhode Island	Providence	47.34	46.90	48.48	51.01	50.03	51.20	50.58	50.49	52.40	75.62	75.55	72.41
South Carolina	Beaufort	66.74	69.90	67.26	67.26	67.26	66.61	66.61	69.85	75.91	75.74	75.89	70.67
Tennessee	Memphis	91.94	92.15	92.22	92.22	92.53	92.53	92.94	94.03	95.07	94.63	94.65	94.70
Tennessee	Nashville	87.86	88.42	88.50	88.21	88.51	88.51	88.51	89.60	92.05	91.63	91.60	91.56
Texas	Brownsville	47.83	45.51	44.90	46.34	44.85	47.92	48.10	47.64	47.64	49.89	50.65	49.90
Texas	Corpus Christi	48.31	46.83	48.68	50.40	48.63	48.45	48.67	49.61	53.69	46.86	46.62	45.94
Texas	Dallas	58.83	59.15	58.91	61.81	60.39	60.33	60.26	58.70	60.73	61.87	60.77	60.02
Texas	Fort Worth	53.14	50.57	53.03	54.86	53.14	53.17	53.01	51.55	53.39	55.35	56.12	55.36
Texas	Houston	65.05	65.67	65.40	67.11	65.55	65.65	64.21	65.25	65.10	66.48	62.00	61.31
Texas	San Antonio	52.73	50.18	52.65	54.09	52.76	52.61	52.38	51.94	52.16	49.81	49.90	49.22
Utah	Logan	57.83	58.07	58.36	57.26	57.69	57.98	53.34	53.71	42.79	41.77	45.40	42.53
Virginia	Richmond	114.51	114.79	114.50	118.60	119.18	119.18	115.76	115.79	NA	119.02	120.09	120.09
Virginia	Smithfield	61.16	60.76	60.87	60.87	60.87	60.87	60.87	58.50	58.50	62.12	62.12	92.49
Washington	Everett	70.13	64.73	66.45	64.54	64.54	59.54	59.54	59.54	59.54	65.15	55.59	49.90
Washington	Seattle	59.88	57.72	58.06	60.45	54.42	55.01	54.64	54.97	54.97	40.85	41.84	41.17
West Virginia	Huntington	73.96	109.16	114.61	114.61	114.61	114.61	116.26	116.04	114.10	87.83	87.93	87.95
Wisconsin	Milwaukee	48.54	48.61	45.13	39.87	39.10	39.03	38.96	45.33	48.90	48.96	53.51	54.69
Wisconsin	Racine	48.28	48.66	45.16	40.00	40.00	40.66	40.59	45.15	48.69	48.75	53.28	54.45

* Rates are based upon flat-rate service where available and measured/message service with 200 5-minute, same-zone, business-day calls elsewhere.

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	1998	1999	2000	2001
Alabama	Huntsville	\$222.24	\$233.82	\$99.23	\$99.23	\$99.23	\$99.23	\$93.00	\$93.00	\$93.00	\$93.00	\$93.00	\$93.00
Alaska	Anchorage	65.25	65.25	65.25	65.25	54.75	54.75	54.75	54.75	111.00	111.00	111.00	111.00
Arizona	Tucson	243.22	219.90	220.30	220.30	220.30	220.89	217.76	217.74	217.74	221.88	221.88	221.91
Arkansas	Pine Bluff	303.99	305.01	305.23	305.06	280.32	278.81	279.82	279.58	289.64	290.30	290.30	290.30
Arkansas	West Memphis	303.93	311.08	311.02	308.13	280.80	282.72	283.53	283.82	293.01	293.79	293.79	293.79
California	Anaheim	228.61	302.66	300.10	304.06	298.50	306.05	308.55	313.18	304.58	304.58	280.30	282.09
California	Bakersfield	228.61	302.66	300.10	304.06	298.50	306.05	308.55	313.18	304.58	300.07	280.30	282.09
California	Fresno	228.61	302.66	300.10	304.06	298.50	306.05	308.55	313.18	304.58	300.07	280.30	282.09
California	Long Beach	186.14	208.14	209.89	209.89	200.93	209.08	229.36	229.54	229.54	153.06	152.77	152.62
California	Los Angeles	228.61	302.66	300.10	304.06	298.50	306.05	308.55	313.18	304.58	300.07	309.02	310.29
California	Oakland	228.61	302.66	300.10	304.06	298.50	306.05	308.55	313.18	304.58	300.07	301.84	303.24
California	Salinas	228.61	302.66	300.10	304.06	298.50	306.05	308.55	313.18	304.58	300.07	297.53	299.01
California	San Bernadino	186.14	208.14	209.89	209.89	200.93	209.08	226.24	226.39	226.39	150.96	150.66	150.54
California	San Diego	228.61	302.66	300.10	304.06	298.50	306.05	308.55	313.18	304.58	300.07	280.30	282.09
California	San Francisco	228.61	302.66	300.10	304.06	298.50	306.05	308.55	313.18	304.58	300.07	301.84	303.24
California	San Jose	228.61	302.66	300.10	304.06	298.50	306.05	308.55	313.18	304.58	300.07	280.30	282.09
Colorado	Boulder	297.98	255.98	255.98	255.98	256.58	256.82	257.42	257.42	215.59	212.28	199.42	199.42
Colorado	Colorado Springs	298.73	254.10	252.60	252.60	249.60	249.60	249.60	249.60	249.60	208.85	205.63	193.00
Colorado	Denver	300.70	257.52	257.52	257.52	257.52	257.52	257.52	257.52	257.52	215.28	211.97	199.13
Connecticut	Ansonia	180.00	190.80	190.80	190.80	190.80	206.70	206.70	206.70	206.70	206.70	206.70	206.70
Connecticut	Norwalk	180.00	190.80	190.80	190.80	190.80	206.70	206.70	206.70	206.70	206.70	206.70	206.70
DC	Washington	124.07	125.72	116.77	116.77	116.77	116.77	147.25	147.25	147.25	147.25	147.25	133.25
Florida	Miami	99.23	99.11	99.11	100.05	85.60	86.00	86.00	86.00	86.00	86.00	86.00	92.07
Florida	Tampa	61.45	107.30	107.30	159.04	159.04	159.04	149.32	149.32	149.32	149.32	149.32	149.32
Florida	West Palm Beach	99.23	99.11	99.11	100.05	85.60	85.60	85.60	85.60	85.60	85.60	85.60	91.99
Georgia	Albany	92.25	92.25	92.25	92.25	92.25	92.25	92.25	118.25	118.25	118.25	118.25	118.25
Georgia	Atlanta	92.25	92.25	92.25	92.25	92.25	92.25	92.25	118.25	118.25	118.25	118.25	118.25
Hawaii	Honolulu	105.50	105.50	105.50	105.50	105.50	105.50	114.31	117.61	117.61	111.98	111.98	112.01
Illinois	Chicago	139.08	139.11	138.18	138.18	138.18	96.17	96.17	96.17	100.10	97.48	97.48	97.48
Illinois	Decatur	138.56	138.60	138.38	138.38	138.38	96.31	96.30	96.30	96.30	99.36	96.74	96.74
Illinois	Rock Island	138.66	138.70	138.38	138.38	138.38	96.31	96.30	96.30	96.30	99.36	96.74	96.74
Indiana	Indianapolis	99.00	99.00	99.00	99.00	99.00	99.00	59.00	59.00	99.00	99.00	99.00	99.00
Indiana	Terre Haute	113.93	114.03	114.03	114.03	114.03	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	28.65	27.85	27.85	28.11	28.11
Kentucky	Louisville	95.64	95.50	95.50	95.50	95.50	95.50	117.00	117.00	117.00	117.00	117.00	124.02
Louisiana	Baton Rouge	215.32	215.24	215.24	181.30	181.30	180.25	153.47	153.47	153.47	153.47	153.47	161.14
Louisiana	New Orleans	215.32	217.33	215.24	182.00	180.25	180.25	153.47	153.47	153.47	153.47	153.47	153.47
Maine	Portland	176.40	178.08	178.08	178.08	178.08	178.08	178.08	178.08	177.24	177.24	176.40	176.40
Maryland	Baltimore	134.00	134.00	134.00	201.50	201.50	201.50	201.50	201.50	167.50	167.50	167.00	167.00
Massachusetts	Boston	98.04	201.44	205.68	205.68	205.68	205.68	205.78	205.78	205.78	205.78	205.78	205.78
Massachusetts	Hyannis	98.04	201.44	205.68	205.68	205.68	205.68	205.78	205.78	205.78	205.78	205.78	205.78
Massachusetts	Springfield	98.04	201.44	205.68	205.68	205.68	205.68	205.78	205.78	205.78	205.78	205.78	205.78
Michigan	Detroit	137.34	131.04	131.04	131.04	133.56	133.56	133.56	133.56	133.56	139.86	139.86	139.86
Michigan	Grand Rapids	131.04	131.04	131.04	131.04	131.04	133.56	133.56	133.56	133.56	133.56	133.56	133.56
Michigan	Saginaw	131.04	131.04	131.04	131.04	133.56	133.56	133.56	133.56	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	184.99	184.99	184.99	184.99	184.99
Minnesota	Minneapolis	67.50	67.50	172.50	178.50	178.50	178.50	191.00	185.86	185.86	185.86	185.86	185.86
Mississippi	Pascagoula	178.73	180.30	180.30	103.79	103.79	103.79	103.79	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	182.40	183.38	182.60	179.07
Missouri	Mexico	205.65	205.65	205.65	205.65	205.65	179.09	179.09	179.87	179.87	179.87	179.87	178.22
Missouri	St. Louis	210.30	210.30	210.30	210.30	212.33	184.90	184.90	184.90	184.90	185.95	185.95	184.39
Montana	Butte	226.80	226.80	226.80	217.80	217.95	217.95	217.80	217.80	217.80	217.80	217.80	217.35
Nebraska	Grand Island	125.08	125.08	128.62	179.85	179.85	179.85	147.39	147.15	179.85	186.37	186.37	187.06
New Jersey	Phillipsburg	122.50	122.50	122.50	122.50	122.50	122.50	123.69	123.69	123.69	123.69	123.69	123.69
New Mexico	Alamogordo	265.53	262.35	262.81	305.83	284.38	284.40	283.52	283.52	283.52	283.52	284.40	284.40

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

State	City	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
New York	Binghamton	310.67	311.35	308.15	234.20	234.08	235.05	234.60	233.31	233.10	233.10	230.63	231.26
New York	Buffalo	316.43	319.78	316.56	240.59	240.36	239.25	238.81	237.20	236.99	236.99	234.52	235.47
New York	Massena	311.67	312.39	309.19	234.99	234.77	233.66	233.22	231.98	231.78	231.78	229.30	229.91
New York	New York City	320.80	321.74	318.80	242.29	242.07	240.95	239.97	238.28	238.07	238.07	235.60	236.62
New York	Ogdensburg	320.43	321.16	317.88	241.59	241.36	240.23	239.78	238.18	237.98	237.98	235.50	236.38
New York	Rochester	71.71	107.51	107.62	105.52	105.37	101.41	101.41	101.23	104.22	104.22	103.09	103.31
North Carolina	Raleigh	105.00	108.15	108.15	108.15	108.15	108.15	108.15	112.27	112.27	112.27	112.27	112.27
North Carolina	Rockingham	105.00	108.15	108.15	108.15	108.15	108.15	108.15	112.27	112.27	112.27	112.27	112.27
Ohio	Canton	175.95	175.95	175.95	175.95	175.95	148.05	148.05	148.05	99.05	99.05	99.05	99.05
Ohio	Cincinnati	162.00	162.00	162.00	162.00	167.34	149.34	149.34	149.34	168.75	168.75	168.75	174.75
Ohio	Cleveland	175.95	175.95	175.95	175.95	175.95	148.05	148.05	148.05	99.05	99.05	99.05	99.05
Ohio	Columbus	175.95	175.95	175.95	175.95	175.95	148.05	148.05	148.05	99.05	99.05	99.05	99.05
Ohio	Toledo	175.95	175.95	175.95	175.95	175.95	148.05	148.05	148.05	99.05	99.05	99.05	99.05
Oregon	Corvallis	93.00	93.00	93.00	93.00	93.00	117.00	120.51	120.51	120.51	120.51	120.51	112.27
Oregon	Portland	93.46	93.00	93.00	93.00	93.00	117.00	117.00	120.51	120.51	120.51	120.51	120.51
Pennsylvania	Allentown	238.50	238.50	238.50	238.50	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	238.50	238.50	238.50	238.50
Pennsylvania	Johnstown	131.44	136.22	120.23	121.37	121.20	121.20	121.19	121.20	121.20	121.20	121.20	121.19
Pennsylvania	New Castle	238.50	238.50	238.50	238.50	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	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	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	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	143.20	143.20	143.20	143.20
South Carolina	Beaufort	64.60	64.60	64.60	64.60	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	137.68	137.68	137.08	137.26	137.85
Tennessee	Nashville	130.02	131.04	131.04	131.04	131.04	131.04	131.04	131.04	131.04	130.44	130.44	130.44
Texas	Brownsville	134.43	124.75	123.57	123.57	115.77	123.71	123.71	115.54	132.91	135.00	135.00	135.00
Texas	Corpus Christi	136.55	127.51	133.04	133.63	124.53	124.23	124.33	118.43	137.46	125.08	125.08	125.08
Texas	Dallas	138.27	135.40	134.94	135.46	127.14	127.13	126.61	115.25	138.40	137.62	137.62	137.62
Texas	Fort Worth	137.04	127.18	133.84	134.55	125.67	125.88	125.05	113.66	136.61	137.76	137.76	137.76
Texas	Houston	137.71	135.52	135.34	135.66	127.11	127.17	124.03	117.77	125.52	125.52	125.52	125.52
Texas	San Antonio	135.72	125.96	132.63	132.39	124.51	124.32	123.32	115.19	124.94	124.94	124.94	124.94
Utah	Logan	255.99	204.00	204.00	204.00	203.75	203.76	203.76	203.52	203.52	205.92	205.29	203.57
Virginia	Richmond	117.60	117.60	117.60	117.60	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	51.25	80.00	80.00	80.00
Washington	Everett	166.92	174.49	178.53	158.61	158.61	178.04	107.36	107.36	107.36	107.36	107.36	107.36
Washington	Seattle	168.99	168.07	167.18	166.28	165.75	203.74	203.74	203.52	203.52	203.52	203.52	204.49
West Virginia	Huntington	168.70	168.70	168.70	168.70	168.70	168.70	168.70	168.70	127.00	127.00	127.00	127.00
Wisconsin	Milwaukee	117.23	111.78	111.78	111.78	111.78	111.78	111.88	111.88	111.88	111.88	111.88	111.88
Wisconsin	Racine	117.23	111.78	111.78	111.78	111.78	111.25	111.35	111.35	111.35	111.35	111.35	111.35

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

B. Toll Service Rates

Residential customers paid the basic schedule rates for toll service prior to 1992. Providing some historical perspective, Tables 1.21 through 1.23 present the basic schedule rates of AT&T, WorldCom, and Sprint since 1980. The basic schedule rates are those charged to consumers who do not select a particular calling plan. Table 1.24 provides an even longer historical view by tracking AT&T's basic schedule residential rates for a 10-minute interstate call from 1927 to 2002.

Since 1992, long distance carriers have introduced an impressive array of discount and promotional plans, and many long distance residential customers employ these plans. These plans take a variety of formats. 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. One trend has been the introduction of flat-rate calling plans, which eliminate the mileage bands associated with traditional basic schedules. In addition, we are now seeing the introduction of so-called "all you can call" plans, such as AT&T's \$19.95 per month for unlimited interLATA calls to any other AT&T customer and WorldCom's "Neighborhood" plan which allows unlimited local and long distance calling for \$49.99 and \$59.99 per month, depending on the subscriber's location.

In addition, wireless companies and prepaid calling cards offer more options for long-distance consumers. Wireless companies now offer packages which enable customers to purchase a set number of minutes of usage per month at a set rate, and allows customers to use these minutes for local or long distance calling. An individual may also purchase a prepaid calling card, which contains an allotted number of long distance minutes.

Given the myriad of options available to residential long distance customers today, it is very difficult to derive a single rate for toll services. For illustrative purposes, we estimate the best available rates a price sensitive consumer could obtain from AT&T calling plans, as set forth on Table 1.25.

Using revenue per minute data for both residential and business interstate toll traffic, Table 1.26 illustrates the downward trend in long distance rates since discount long distance plans were introduced in 1992. The carriers' average revenue per interstate toll minute has fallen by 40% since 1992, demonstrating that the advent of discount long distance plans has produced lower rates for both business and residential consumers.

Table 1.21
Basic Schedule Rates of AT&T, WorldCom, and Sprint for Residential Customers for a 10-Minute Day Call
 (As of December 31)

	Residence Day Rates for 10-Minute Calls												Percent Change 1989 to 2001																													
	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	WorldCom	Sprint	AT&T	WorldCom	Sprint	AT&T	WorldCom	Sprint	AT&T	WorldCom	Sprint	AT&T	WorldCom	Sprint	AT&T	WorldCom	Sprint																								
1980	\$1.01			\$1.41			\$2.35			\$3.15			\$2.37			\$2.30			\$2.58			\$2.70			\$2.90			\$3.61			\$3.20			\$4.17			\$3.82			\$3.30		
1981	1.13			1.63			2.77			3.67			3.07			2.67			3.39			3.13			3.49			3.36			3.40			3.71			4.00			3.83		
1982	1.76	\$1.53		2.38	\$1.54		3.00	\$1.94		\$1.92			3.90	3.28		3.27	4.09		3.42			3.62			4.49	3.74		3.74	4.60		3.84			3.85	5.15		4.32			4.32		
1983	1.76	1.54		2.38	2.10		3.00	2.70		2.69	3.90	3.28		3.29	4.09		3.42		3.43			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		3.45			3.80	4.18	3.84	3.98	4.29	3.96	4.06	4.83	4.47	4.67			4.06	4.83	4.47	4.67			4.67	
1985	1.98	1.80		1.70	2.59	2.33	2.00	2.82	2.20	3.48	3.29	3.34	3.66	3.48		3.45	3.85		3.45			3.63	3.97	3.84	3.70	4.07	3.96	3.80	4.43	4.28	4.10			3.80	4.43	4.28	4.10			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		3.03			3.24	3.44	3.35	3.34	3.54	3.46	3.45	3.79	3.68	3.67			3.45	3.79	3.68	3.67			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		2.52			2.70	2.95	2.90	2.92	2.96	2.91	2.93	3.08	3.04	3.04			2.93	3.08	3.04	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		2.40			2.50	2.64	2.69	2.71	2.64	2.71	2.73	2.75	2.84	2.84			2.73	2.75	2.84	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	2.20	2.20		2.20	2.20		2.20			2.30	2.40	2.40	2.35	2.35	2.45	2.45	2.50	2.45	2.45			2.45	2.50	2.45	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	2.10	2.10		2.10	2.10		2.10			2.30	2.30	2.30	2.30	2.49	2.40	2.40	2.49	2.40	2.40			2.40	2.49	2.40	2.49	2.40			2.40
1991	1.70	1.70		1.70	1.80	1.80	1.80	1.90	1.90	1.90	2.10	2.10	2.10	2.10	2.10		2.10	2.10		2.10			2.30	2.30	2.30	2.30	2.44	2.40	2.40	2.44	2.40	2.40			2.40	2.44	2.40	2.44	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	2.20		2.20	2.20		2.20			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	2.40	2.40			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	2.30	2.30		2.30	2.30		2.30			2.40	2.40	2.40	2.40	2.50	2.50	2.50	2.50	2.50	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	2.50	2.50	2.50	2.50	2.50		2.50	2.50		2.50			2.60	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
1995	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	2.50		2.50	2.50		2.50			2.60	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
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	2.80	2.80		2.80	2.80		2.80			2.90	2.90	2.90	2.90	3.00	3.00	3.00	3.00	3.00	3.00			3.00	3.00	3.00	3.00	3.00			3.00
1997	2.80	2.60		2.60	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80		2.80	2.80		2.80			2.90	2.90	2.90	2.90	3.00	3.00	3.00	3.00	3.00	3.00			3.00	3.00	3.00	3.00	3.00			3.00
1998	2.80	2.60		2.60	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80	2.80		2.80	2.80		2.80			2.90	2.90	2.90	2.90	3.00	3.00	3.00	3.00	3.00	3.00			3.00	3.00	3.00	3.00	3.00			3.00
1999	2.60	2.60		2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60		2.60	2.60		2.60			2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60	2.60			2.60	2.60	2.60	2.60	2.60			2.60
2000	2.95	3.00		3.00	2.95	3.00	3.00	2.95	3.00	3.00	2.95	3.00	3.00	3.00	3.00		3.00	3.00		3.00			2.95	2.95	2.95	2.95	3.00	3.00	3.00	3.00	3.00	3.00			3.00	3.00	3.00	3.00	3.00			3.00
2001	3.00	3.00		3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00		3.00	3.00		3.00			3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00	3.00			3.00	3.00	3.00	3.00	3.00			3.00

Sources: AT&T, WorldCom and Sprint tariffs until tariffs were discontinued on August 1, 2001. Dr. Bob's Long Distance for Less, Market Dynamics, Bethesda, Maryland. AT&T's, WorldCom's, and Sprint's websites after tariffs were discontinued.

Table 1.22
Basic Schedule Rates of AT&T, WorldCom, and Sprint to Residential Customers for a 10-Minute Evening Call
 (As of December 31)

	Residential Evening Rates for 10-Minute Calls												Percent Change 1989 to 2001												
	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		55%						
	AT&T	Sprint	AT&T	WorldCom	Sprint	AT&T	WorldCom	Sprint	AT&T	WorldCom	Sprint	AT&T	WorldCom	Sprint	AT&T	WorldCom	Sprint	AT&T		WorldCom	Sprint				
1980	\$0.65																								
1981	0.73																								
1982	1.05	\$0.65																							
1983	1.05	0.92																							
1984	0.99	0.90																							
1985	1.18	1.10																							
1986	1.05	0.99																							
1987	0.91	0.86																							
1988	0.98	0.86																							
1989	1.14	1.12																							
1990	1.14	1.12																							
1991	1.11	1.10																							
1992	1.30	1.30																							
1993	1.20	1.20																							
1994	1.40	1.40																							
1995	1.40	1.40																							
1996	1.40	1.40																							
1997	1.60	1.30																							
1998	1.60	1.30																							
1999	1.60	1.30																							
2000	2.25	2.50																							
2001	2.50	2.50																							
	119%	123%	114%	87%	91%	82%	69%	172%	66%	69%	72%	66%	62%	72%	66%	62%	64%	58%	50%	61%	55%	50%	61%	55%	55%

Sources: AT&T, WorldCom and Sprint tariffs until tariffs were discontinued on August 1, 2001. Dr. Bob's Long Distance for Less, Market Dynamics, Bethesda, Maryland. AT&T's, WorldCom's, and Sprint's websites after tariffs were discontinued.

Table 1.23
Basic Schedule Rates to AT&T, WorldCom, and Sprint Residential Customers for a 10-Minute Night/Weekend Call
 (As of December 31)

	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	Sprint	AT&T	WorldCom	Sprint	AT&T	WorldCom	Sprint	AT&T	WorldCom	Sprint	AT&T	WorldCom	Sprint	AT&T	WorldCom	Sprint	AT&T	WorldCom	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	\$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	1.84	1.27	1.48	1.92	1.33	1.53
1982	0.70	\$0.36	0.95	\$0.69	1.20	\$0.87	1.56	1.14	1.00	1.63	1.20	1.19	1.19	1.74	1.28	1.20	1.79	1.31	1.84	1.35	1.29	2.06	1.50	1.31
1983	0.70	0.61	0.59	0.84	0.79	1.20	1.08	0.99	1.25	1.20	1.63	1.32	1.30	1.74	1.41	1.33	1.67	1.45	1.84	1.48	1.48	2.06	1.66	1.56
1984	0.66	0.64	0.90	0.81	0.86	1.11	1.02	1.07	1.34	1.36	1.54	1.44	1.49	1.62	1.50	1.58	1.58	1.60	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	1.54	1.44	1.52	1.51	1.55	1.56	1.62	1.60	1.59	1.77	1.71
1986	0.77	0.72	0.62	0.99	0.93	0.93	1.13	1.07	1.06	1.29	1.23	1.38	1.31	1.30	1.46	1.34	1.38	1.48	1.37	1.55	1.54	1.52	1.66	1.62
1987	0.69	0.67	0.68	0.88	0.87	0.98	0.95	0.95	1.11	1.09	1.04	1.17	1.04	1.29	1.27	1.05	1.26	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	0.95	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	1.32	1.41	1.42
1989	0.97	0.85	1.10	1.05	0.95	1.20	1.15	1.20	1.15	1.15	1.21	1.15	1.20	1.22	1.15	1.15	1.26	1.22	1.22	1.30	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	1.15	1.20	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
1991	1.05	1.00	1.13	1.10	1.10	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	1.33	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	1.18	1.30	1.30	1.30	1.25	1.30	1.25	1.30	1.30	1.25	1.30	1.25	1.30
1993	1.10	1.10	1.20	1.20	1.20	1.20	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	1.29	1.30
1994	1.20	1.20	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	1.30	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	1.50	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
1997	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	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
1998	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
1999	1.15	1.30	1.30	1.15	1.30	1.15	1.30	1.30	1.30	1.50	1.15	1.80	1.50	1.15	1.80	1.50	1.15	1.80	1.60	1.15	1.80	1.15	1.80	1.60
2000	1.45	1.00	1.45	1.00	1.45	1.00	1.45	1.00	1.45	1.00	1.45	1.00	1.30	1.45	1.00	1.40	1.45	1.00	1.50	1.45	1.00	1.50	1.45	1.00
2001	1.60	1.00	1.60	1.00	1.60	1.00	1.60	1.00	1.60	1.00	1.60	1.00	1.00	1.60	1.00	1.00	1.60	1.00	1.60	1.00	1.00	1.60	1.00	1.00
	65%	9%	18%	45%	-5%	33%	-13%	-5%	33%	-13%	32%	-13%	-13%	31%	-13%	-13%	27%	-18%	23%	-20%	-20%	21%	-20%	-20%

Sources: AT&T, WorldCom and Sprint tariffs until tariffs were discontinued on August 1, 2001. Dr. Bob's Long Distance for Less, Market Dynamics, Bethesda, Maryland, AT&T's, WorldCom's, and Sprint's websites after tariffs were discontinued.

Table 1.25
Average Long Distance Bills for Price-Sensitive Residential Callers
(Based Upon AT&T's Basic Schedule, Calling Plans and Long-Term Promotions)

Date *	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
January 1984	\$3.95	\$16.54	\$31.98	\$79.02	\$179.26
January 1989	2.47	10.75	21.07	52.04	118.78
January 1991	2.19	9.60	18.43	44.32	99.60
January 1992	2.16	9.48	17.94	42.17	93.67
January 1993	2.16	8.99	16.36	37.76	84.96
January 1994	2.22	8.64	15.36	36.66	83.63
January 1995	2.39	8.89	15.68	36.90	83.84
February 1996	2.47	9.10	16.77	37.12	72.75
February 1997	2.00	8.71	15.83	36.96	79.52
October 1997	1.70	7.75	14.88	34.05	75.54
December 1997	1.70	7.75	14.91	34.17	73.87
February 1998	1.70	7.75	14.91	34.17	73.87
April 1998	2.33	8.70	15.85	35.12	74.84
July 1998	3.48	9.54	16.68	35.95	75.40
September 1998	4.92	9.53	16.68	35.95	75.61
November 1998	4.92	9.53	16.28	33.81	69.89
August 1999	5.64	10.18	15.83	27.71	47.29
November 1999	6.03	10.57	16.22	27.13	46.73
December 1999	4.98	10.57	16.22	27.13	46.73
April 2000	3.90	9.98	16.12	26.88	48.13
September 2000	2.14	6.00	11.28	23.75	45.90
March 2002	2.44	5.07	7.82	19.23	41.91**
Households in Sample	2,050	550	264	123	94

* Bills are based on the best rates in effect on these dates.

** This does not take into account AT&T's plan allowing unlimited InterLATA calling to any other AT&T customer for \$19.95 per month.

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 interLATA direct-dial calls on the household's phone bills are used, so that the program is able to determine the lowest available bill for actual calling patterns, rather than hypothesized calling patterns. All calling plans accepting new customers, including the basic schedule, are evaluated, with the exception of those calling plans that have a pre-determined date after which the rates will not be available. The average bill for each calling volume group (e.g., 30 minutes or less) is calculated as the sum of each household's potential minimum bill divided by the number of households in the group.

Sources:

Phone bills from 3,081 households selected from Bill Harvesting III (1996 data), TNS Telecoms (formerly PNR and Associates), Jenkintown, Pennsylvania.

From 1984-2000, rates from AT&T tariffs and tariff summaries in *Dr. Bob's Long Distance for Less*, Market Dynamics, Bethesda, Maryland. Starting in 2002, rates are from company websites.

Table 1.26
Average Revenue per Minute for Interstate Toll Service Calls

Year	Revenue per Minute
1992	\$0.15
1993	0.15
1994	0.14
1995	0.12
1996	0.12
1997	0.11
1998	0.11
1999	0.11
2000	0.09

Sources: Other estimates from the Industry Analysis Division, Common Carrier Bureau, *Telecommunications Industry Revenues* (February 2002).

C. Additional Sources of Information on Local and Toll Rates

1. Local Rates

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 the regional Bell operating companies. More information can be found at NARUC's website <www.naruc.org>.

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

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

2. Toll Rates

Up until August 2001, all interstate interexchange carriers were required to file tariffs setting forth their rates with the FCC. These filings were available for public inspection at the FCC's Information Center, Washington, DC. As of August 1, 2001, interstate carriers were no longer required to file tariffs setting forth their interstate long distance rates. Since that date, carriers are required to post their rates on their websites.

The BLS publishes a number of price indices that follow trends in toll rates. Part III 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 major long distance companies and their rates, and many of these firms maintain Internet sites. Some examples are Abtolls.com, a free directory service guide to long distance carriers and their rates, Telecommunications Research and Action Center, which uses a search engine to find the lowest long distance rates for any selected calling pattern, Phone Bill Busters, which lists discount long distance plans and uses a search engine to find the lowest long distance rates for any selected calling pattern, and Discount Long Distance Digest, an internet newsletter which offers a "free multi-carrier cost comparison service". One can access these services on the internet at <abtolls.com>, <www.trac.org>, <www.phone-bill-busters.com>, and <www.thedigest.com>.

II. Expenditures for 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 For instance, 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 2.1 through 2.5 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 1999. More than 85 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. The remaining 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 leasing telephones from AT&T.

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. 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.

¹ We also refer to consumer units as "households."

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 instead continues to include these with other telephone expenditures.

Table 2.6 presents estimates of annual household telecommunications expenditures by the type of service provider. This table is derived from Bill Harvesting® data collected by TNS Telecom, which provides information on actual usage in the residential telecom market as collected from the actual telecommunications bills of households. TNS Telecoms, a telecommunications market information firm, conducts nationwide surveys and Bill Harvesting® on a quarterly basis from over 120,000 households each year. The company has donated databases to the Commission containing information on residential phone usage.

Table 2.1
Average Annual Expenditures
by Household Locations

	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	24,753	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
1996	33,797	34,502	28,853	34,163	33,025	32,871	35,795
1997	34,819	35,614	29,353	36,070	33,791	32,226	39,037
1998	35,535	36,349	29,813	37,535	34,513	32,958	38,938
1999	37,027	37,905	30,831	38,446	36,337	33,328	42,364
2000	38,045	38,942	31,831	38,902	39,213	34,707	41,328
Household Expenditure 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
1996	772	779	726	763	753	796	764
1997	809	814	773	785	778	839	817
1998	830	834	801	814	801	858	828
1999	849	854	812	846	858	862	822
2000	877	889	790	856	884	891	864
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	2.02	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	2.01	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
1996	2.28	2.26	2.52	2.23	2.28	2.28	2.13
1997	2.32	2.26	2.77	2.18	2.30	2.60	2.09
1998	2.34	2.29	2.69	2.17	2.32	2.60	2.13
1999	2.29	2.25	2.63	2.20	2.36	2.59	1.94
2000	2.31	2.28	2.48	2.20	2.25	2.57	2.09

Table 2.2
Average Annual Household Expenditures
by Race and National Origin

	By Race		By National Origin	
	White & Other	Black	Hispanic	Non-Hispanic
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	32,614	22,413	\$26,433	\$32,165
1995	33,737	23,739	26,744	32,729
1996	34,994	24,926	27,868	34,338
1997	36,076	25,509	29,333	35,325
1998	36,848	25,796	30,013	36,044
1999	38,354	27,374	33,105	37,385
2000	39,406	28,152	32,735	38,549
Household Expenditure 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
1996	757	887	870	763
1997	791	945	833	807
1998	818	915	811	831
1999	837	934	872	847
2000	862	986	889	876
Expenditures on Telephone Service as 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
1996	2.16	3.56	3.12	2.22
1997	2.19	3.70	2.84	2.28
1998	2.22	3.55	2.70	2.31
1999	2.18	3.41	2.63	2.27
2000	2.19	3.50	2.72	2.27

Table 2.3
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	45,156
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
1996	15,896	22,799	30,402	41,965	66,794
1997	16,008	23,558	31,447	42,846	66,800
1998	16,630	23,709	31,400	43,811	70,648
1999	16,766	24,850	33,078	46,015	75,080
2000	17,940	26,550	34,716	46,794	75,102
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
1996	513	641	750	892	1,100
1997	530	671	794	909	1,142
1998	527	661	801	947	1,194
1999	559	671	825	975	1,227
2000	575	705	860	1,004	1,305
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	3.38	2.71	2.41	1.99	1.55
1996	3.20	2.94	2.46	2.05	1.57
1997	3.24	3.02	2.53	2.09	1.63
1998	3.17	2.79	2.55	2.16	1.69
1999	3.33	2.70	2.49	2.12	1.63
2000	3.21	2.66	2.48	2.15	1.74

Table 2.4
Average Annual Household Expenditures
by Age of the Head of the Household

By Age of the Head of the Household							
	Under 25	25-34	35-44	45-54	55-64	65-74	Over 74
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	26,617	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	17,764
1993	17,468	28,594	37,429	41,020	32,973	23,706	18,530
1994	18,417	30,468	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
1996	18,384	33,020	39,944	42,722	36,132	27,739	19,603
1997	18,450	34,902	40,413	45,239	35,954	27,792	20,279
1998	19,436	34,779	42,154	45,475	37,329	27,830	20,987
1999	21,725	36,181	42,836	46,538	39,427	29,911	22,900
2000	22,543	38,945	45,149	46,160	39,340	30,782	21,908
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
1996	537	838	856	925	814	618	459
1997	550	893	921	952	842	627	458
1998	560	888	947	993	835	679	494
1999	562	924	950	1008	869	711	506
2000	589	950	1018	1007	909	720	511
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
1996	2.92	2.54	2.14	2.17	2.25	2.23	2.34
1997	2.98	2.56	2.28	2.10	2.34	2.26	2.26
1998	2.88	2.55	2.25	2.18	2.24	2.44	2.35
1999	2.59	2.55	2.22	2.17	2.20	2.38	2.21
2000	2.61	2.44	2.25	2.18	2.31	2.34	2.33

Table 2.5
Average Annual Household Expenditures
by Size of the Household

By Size of the 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
1996	20,082	35,559	39,531	43,670	43,217
1997	20,923	36,617	40,926	45,225	43,929
1998	21,483	36,973	41,388	47,020	45,569
1999	22,404	38,895	42,885	49,119	47,581
2000	23,059	38,627	45,156	52,032	49,100
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
1996	544	777	921	904	972
1997	583	789	954	995	1016
1998	581	839	990	991	1022
1999	592	847	994	1050	1094
2000	607	865	1031	1108	1136
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
1996	2.71	2.19	2.33	2.07	2.25
1997	2.79	2.15	2.33	2.20	2.31
1998	2.70	2.27	2.39	2.11	2.24
1999	2.64	2.18	2.32	2.14	2.30
2000	2.63	2.24	2.28	2.13	2.31

Table 2.6

**Average Annual Household Telecommunications Expenditures
by Type of Provider**

	Local Exchange Carriers	Long Distance Carriers	Wireless Carriers*	Total Expenditures
1995	\$358	\$250	\$82	\$690
1996	359	250	108	717
1997	379	305	129	813
1998	398	270	164	832
1999	402	257	205	864
2000	416	211	279	906
2001	426	176	351	953

Source: Calculated by IATD staff with data provided by TNS Telecoms (formerly PNR and Associates), *Telecoms Market Monitor*TM and staff estimates.

Annual expenditures are based on monthly telephone bills for those households with wireline telephone service.

Excludes households in Alaska and Hawaii.

* Wireless expenditures for 1995-2000 have been revised.

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 2.7 shows the most recent I-O account of the use of communications by U.S. industry. Table 2.8 presents the most recent account of the commodities used by the U.S. communications industry.

Table 2.7
1998 Use of Communications Commodities by Industry

I-O Industry Group	Total Industry Output (Millions)	Purchases of Communications Except Radio & Television (Millions)	Communications Purchases of Percent of Industry Output	Communications Purchases by Industry as a Percent of Total Communications Commodities
1 Livestock and livestock products	\$97,795	\$283	0.29%	0.08%
2 Other Agricultural products	120,594	333	0.28	0.10
3 Forestry and fishery products	14,642	13	0.09	0.00
4 Agricultural, forestry, and fishery services	47,473	200	0.42	0.06
5 & 6 Metallic ores mining	11,394	36	0.32	0.01
7 Coal mining	22,787	40	0.18	0.01
8 Crude petroleum and natural gas	87,491	215	0.25	0.06
9&10 Nonmetallic minerals mining	15,505	54	0.35	0.02
11 New Construction	696,617	2,744	0.39	0.80
12 Repair and maintenance construction	309,562	1,338	0.43	0.39
13 Ordinance and accessories	19,178	75	0.39	0.02
14 Food and kindred products	493,653	771	0.16	0.22
15 Tobacco manufactures	46,206	79	0.17	0.02
16 Broad and narrow fabrics, yarn and thread mills	44,267	65	0.15	0.02
17 Miscellaneous textile goods and floor coverings	22,613	65	0.29	0.02
18 Apparel	66,520	153	0.23	0.04
19 Miscellaneous fabricated textile products	27,692	61	0.22	0.02
20 & 21 Lumber and wood products	119,168	206	0.17	0.06
22 & 23 Furniture and fixtures	65,126	221	0.34	0.06
24 Paper & allied products, except containers	116,303	290	0.25	0.08
25 Paperboard containers and boxes	41,730	119	0.29	0.03
26A Newspapers and periodicals	25,053	426	1.70	0.12
26B Other printing & publishing	100,513	530	0.53	0.15
27A Industrial and other chemicals	135,276	307	0.23	0.09
27B Agricultural fertilizers and chemicals	24,270	53	0.22	0.02
28 Plastics and synthetic materials	65,711	285	0.43	0.08
29A Drugs	96,816	324	0.33	0.09
29B Cleaning and toilet preparations	50,430	179	0.35	0.05
30 Paints & allied products	18,728	48	0.26	0.01
31 Petroleum refining and related industries	139,618	216	0.15	0.06
32 Rubber & miscellaneous plastics products	160,807	473	0.29	0.14
33 & 34 Footwear, leather, and leather products	8,654	24	0.28	0.01
35 Glass and glass products	22,642	77	0.34	0.02
36 Stone and clay products	68,023	199	0.29	0.06
37 Primary iron and steel manufacturing	101,909	202	0.20	0.06
38 Primary nonferrous metals manufacturing	86,308	174	0.20	0.05
39 Metal containers	13,392	24	0.18	0.01
40 Heating, plumbing, & structural metal parts	76,823	218	0.28	0.06
41 Screw machine products and stampings	55,001	127	0.23	0.04
42 Other fabricated metal products	82,284	268	0.33	0.08
43 Engines and turbines	26,658	58	0.22	0.02
44 & 45 Farm, construction and mining machinery	55,789	160	0.29	0.05
46 Materials handling machinery and equipment	15,249	50	0.33	0.01
47 Metal working machinery and equipment	40,638	161	0.40	0.05
48 Special industrial machinery and equipment	32,421	149	0.46	0.04
49 General industrial machinery and equipment	40,884	181	0.44	0.05
50 Miscellaneous machinery, except electrical	37,947	107	0.28	0.03
51 Computer and office equipment	99,264	560	0.56	0.16
52 Service industry machinery	37,772	115	0.30	0.03
53 Electrical industrial equipment and apparatus	41,103	166	0.40	0.05
54 Household appliances	22,313	80	0.36	0.02

Table 2.7
1998 Use of Communications Commodities by Industry - Continued

I-O Industry Group	Total Industry Output (Millions)	Purchases of Communications Except Radio & Television (Millions)	Communications Purchases of Percent of Industry Output	Communications Purchases by Industry as a Percent of Total Communications Commodities
55 Electric lighting and wiring equipment	26,933	87	0.32	0.03
56 Audio, video, and communications equipment	91,799	510	0.56	0.15
57 Electronic components and accessories	137,134	621	0.45	0.18
58 Miscellaneous electrical machinery and supplies	27,477	74	0.27	0.02
59A Motor vehicles (passenger cars and trucks)	230,676	262	0.11	0.08
59B Truck/bus bodies, trailers, and motor vehicle	135,108	266	0.20	0.08
60 Aircraft parts	129,376	263	0.20	0.08
61 Other transportation equipment	44,133	98	0.22	0.03
62 Scientific and controlling instruments	133,097	684	0.51	0.20
63 Ophthalmic and photographic equipment	20,721	129	0.62	0.04
64 Miscellaneous manufacturing	50,585	172	0.34	0.05
65A Railroads, and related services	79,667	532	0.67	0.15
65B Motor freight transportation and warehousing	230,207	2,791	1.21	0.81
65C Water transportation	38,469	48	0.12	0.01
65D Air transportation	142,881	1,477	1.03	0.43
65E Pipelines, freight forwarders and related services	39,469	1,393	3.53	0.41
66 Communications, except radio and TV	343,786	51,299	14.92	14.92
67 Radio and television broadcasting	5,576	823	14.76	0.24
68A Electric services (utilities)	230,091	368	0.16	0.11
68B Gas production and distribution (utilities)	103,121	59	0.06	0.02
68C Water and sanitary services	68,432	497	0.73	0.14
69A Wholesale trade	812,459	17,969	2.21	5.23
69B Retail trade	743,808	8,402	1.13	2.44
70A Finance	729,281	11,155	1.53	3.24
70B Insurance	344,595	6,005	1.74	1.75
71A Owner-occupied dwellings	631,659	0	0.00	0.00
71B Real estate and royalties	802,810	5,068	0.63	1.47
72A Hotels and lodging places	82,286	1,071	1.30	0.31
72B Personal and repair services	127,143	1,593	1.25	0.46
73A Computer and data processing services	362,292	7,716	2.13	2.24
73B Legal engineering accounting services	370,311	4,743	1.28	1.38
73C Other businesses and professional services	600,791	8,276	1.38	2.41
73D Advertising	198,947	483	0.24	0.14
74 Eating and drinking places	374,737	1,391	0.37	0.40
75 Automobile repair and services	264,812	2,103	0.79	0.61
76 Amusements	204,820	1,662	0.81	0.48
77A Health Services	763,827	8,370	1.10	2.43
77B Educational and social services	322,753	3,495	1.08	1.02
78 Federal government enterprises	80,223	469	0.58	0.14
79 State and local government enterprises	44,746	597	1.33	0.17
82 General government industry	954,171		0.00	0.00
84 Household industry	14,351		0.00	0.00
Personal consumption expenditures	5,856,029	144,911	2.47	
Gross private fixed investment	1,465,618	7,501	0.51	
Changes in private inventories	73,127		0.00	
Exports	895,637	6,613	0.74	
Imports	-1,047,382		0.00	
Federal government purchases	539,211	6,517	1.21	
State and local government purchases	999,283	11,925	1.19	
Gross Domestic Product	8,781,523	177,466	2.02	
Intermediate Use	6,650,778	166,320	2.50	
Total Commodity Output	\$15,432,301	\$343,786	2.23	

Table 2.8
1998 Use of Commodities by the Communications Industry

I-O Industry Group	Total Commodity Output (Millions)	Sales to Communications Except Radio and 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	\$97,795		0.00%	0.00%
2 Other Agricultural products	120,594	\$2	0.00	0.00
3 Forestry and fishery products	14,642		0.00	0.00
4 Agricultural, forestry, and fishery services	47,473	100	0.21	0.03
5 & 6 Metallic ores mining	11,394		0.00	0.00
7 Coal mining	22,787		0.00	0.00
8 Crude petroleum and natural gas	87,491		0.00	0.00
9&10 Nonmetallic minerals mining	15,505		0.00	0.00
11 New Construction	696,617		0.00	0.00
12 Repair and maintenance construction	309,562	13,224	4.27	3.79
13 Ordinance and accessories	19,178		0.00	0.00
14 Food and kindred products	493,653		0.00	0.00
15 Tobacco manufactures	46,206		0.00	0.00
16 Broad and narrow fabrics, yarn and thread mills	44,267		0.00	0.00
17 Miscellaneous textile goods and floor coverings	22,613	2	0.01	0.00
18 Apparel	66,520	149	0.22	0.04
19 Miscellaneous fabricated textile products	27,692	8	0.03	0.00
20 & 21 Lumber and wood products	119,168	48	0.04	0.01
22 & 23 Furniture and fixtures	65,126		0.00	0.00
24 Paper & allied products, except containers	116,303	325	0.28	0.09
25 Paperboard containers and boxes	41,730	166	0.40	0.05
26A Newspapers and periodicals	25,053	212	0.85	0.06
26B Other printing & publishing	100,513	1,250	1.24	0.36
27A Industrial and other chemicals	135,276	20	0.01	0.01
27B Agricultural fertilizers and chemicals	24,270		0.00	0.00
28 Plastics and synthetic materials	65,711		0.00	0.00
29A Drugs	96,816	7	0.01	0.00
29B Cleaning and toilet preparations	50,430	37	0.07	0.01
30 Paints & allied products	18,728	152	0.81	0.04
31 Petroleum refining and related industries	139,618	266	0.19	0.08
32 Rubber & miscellaneous plastics products	160,807	790	0.49	0.23
33 & 34 Footwear, leather, and leather products	8,654	2	0.02	0.00
35 Glass and glass products	22,642	41	0.18	0.01
36 Stone and clay products	68,023		0.00	0.00
37 Primary iron and steel manufacturing	101,909		0.00	0.00
38 Primary nonferrous metals manufacturing	86,308	26	0.03	0.01
39 Metal containers	13,392		0.00	0.00
40 Heating, plumbing, & structural metal parts	76,823		0.00	0.00
41 Screw machine products and stampings	55,001	551	1.00	0.16
42 Other fabricated metal products	82,284	487	0.59	0.14
43 Engines and turbines	26,658	404	1.52	0.12
44 & 45 Farm, construction and mining machinery	55,789		0.00	0.00
46 Materials handling machinery and equipment	15,249		0.00	0.00
47 Metal working machinery and equipment	40,638	10	0.02	0.00
48 Special industrial machinery and equipment	32,421		0.00	0.00
49 General industrial machinery and equipment	40,884	715	1.75	0.20
50 Miscellaneous machinery, except electrical	37,947	33	0.09	0.01
51 Computer and office equipment	99,264	708	0.71	0.20
52 Service industry machinery	37,772	6	0.02	0.00
53 Electrical industrial equipment and apparatus	41,103	744	1.81	0.21
54 Household appliances	22,313		0.00	0.00
55 Electric lighting and wiring equipment	26,933	177	0.66	0.05
56 Audio, video, and communications equipment	91,799	6,366	6.93	1.82
57 Electronic components and accessories	137,134	5,926	4.32	1.70

Table 2.8
1998 Use of Commodities by the Communications Industry - Continued

I-O Industry Group	Total Commodity Output (Millions)	Sales to Communications Except Radio and 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
58 Miscellaneous electrical machinery and supplies	27,477	308	1.12	0.09
59A Motor vehicles (passenger cars and trucks)	230,676		0.00	0.00
59B Truck and bus bodies, trailers, and motor vehicle	135,108	62	0.05	0.02
60 Aircraft parts	129,376		0.00	0.00
61 Other transportation equipment	44,133		0.00	0.00
62 Scientific and controlling instruments	133,097	44	0.03	0.01
63 Ophthalmic and photographic equipment	20,721	100	0.48	0.03
64 Miscellaneous manufacturing	50,585	173	0.34	0.05
65A Railroads, and related services	79,667	339	0.43	0.10
65B Motor freight transportation and warehousing	230,207	485	0.21	0.14
65C Water transportation	38,469	32	0.08	0.01
65D Air transportation	142,881	1,307	0.91	0.37
65E Pipelines, freight forwarders and related services	39,469	19	0.05	0.01
66 Communications, except radio and TV	343,786	51,299	14.92	14.71
67 Radio and television broadcasting	5,576	233	4.18	0.07
68A Electric services (utilities)	230,091	1,153	0.50	0.33
68B Gas production and distribution (utilities)	103,121	163	0.16	0.05
68C Water and sanitary services	68,432	422	0.62	0.12
69A Wholesale trade	812,459	3,330	0.41	0.95
69B Retail trade	743,808	117	0.02	0.03
70A Finance	729,281	3,913	0.54	1.12
70B Insurance	344,595	720	0.21	0.21
71A Owner-occupied dwellings	631,659		0.00	0.00
71B Real estate and royalties	802,810	6,594	0.82	1.89
72A Hotels and lodging places	82,286	1,110	1.35	0.32
72B Personal and repair services	127,143	2,622	2.06	0.75
73A Computer and data processing services	362,292	5,168	1.43	1.48
73B Legal engineering accounting and related services	370,311	12,913	3.49	3.70
73C Other businesses and professional services	600,791	9,317	1.55	2.67
73D Advertising	198,947	6,083	3.06	1.74
74 Eating and drinking places	374,737	1,003	0.27	0.29
75 Automobile repair and services	264,812	2,304	0.87	0.66
76 Amusements	204,820	5,237	2.56	1.50
77A Health Services	763,827		0.00	0.00
77B Educational and social services, and membership	322,753	446	0.14	0.13
78 Federal government enterprises	80,223	1,209	1.51	0.35
79 State and local government enterprises	44,746	132	0.29	0.04
82 General government industry	954,171	8,276	0.87	2.37
84 Household industry	14,351		0.00	0.00
Total Sales	\$15,408,172	\$348,829	2.26%	100.00%
Value Added	\$8,757,394	\$189,245	2.16%	54.25%

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 <www.bls.gov/cex/> on the Internet.

TNS Telecoms has donated databases containing information on residential phone usage collected from actual consumer telecommunications bills to the Commission. TNS Telecoms has granted the Commission permission to use these databases for industry research purposes and to publish the industry level results. TNS Telecoms has been monitoring the telecommunications market since 1995 through both the ReQuest® consumer survey and Bill Harvesting® in the residential market and the BusinessWave® business survey in the business market. Tables 10.9, 10.10, and 15.1-15.6 come from these databases. For additional information visit www.tnstelecoms.com or contact them at 1-866-811-TNST or by e-mail at contact@tnstelecoms.com. Their address is 101 Greenwood Ave, Suite 502, Jenkintown, PA 19046.

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, 1997* in *Survey of Current Business*, November, 1997.

The Bureau of the Census publishes the *Service Annual Survey* 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.

III. 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 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. Over 85 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 3.1 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; since then, rates for both interstate and intrastate toll calls have fallen. 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 since the AT&T divestiture in 1984. Table 3.2 presents the monthly consumer price indices since 1972, while an annual index for telephone services since 1935 can be found in Appendix A.

Table 3.3 shows three relatively new consumer price indices that were 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 because current price trends in the cellular market deviate significantly from those in the wireline telephony market.

Table 3.1
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 Services		Intrastate Toll Services	
			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%
1998	1.6%	0.3%	-1.9%	1.3%	-0.3%	-0.8%	-2.4%	1.5%	-0.1%
1999	2.7%	0.4%	-2.2%	2.8%	0.1%	-0.7%	-3.3%	-1.6%	-4.1%
2000	3.4%	-2.3%	-5.5%	5.5%	2.1%	-11.2%	-14.1%	-6.0%	-9.1%
2001	1.5%	1.3%	-0.2%	4.5%	3.0%	-2.0%	-3.4%	-1.7%	-3.2%

Chart 1

Consumer Price Indices

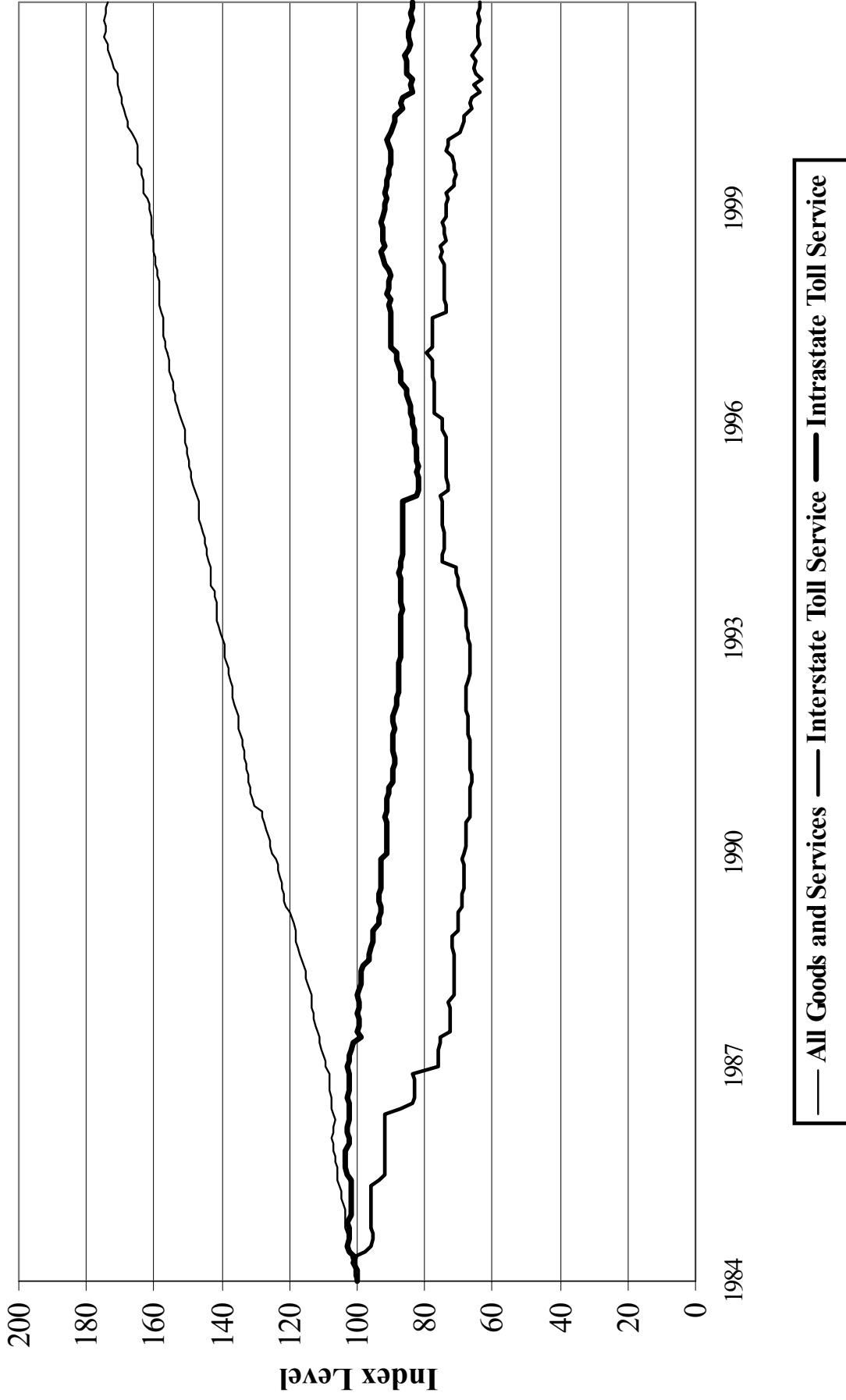


Chart 2

Consumer Price Indices (Adjusted for Inflation)

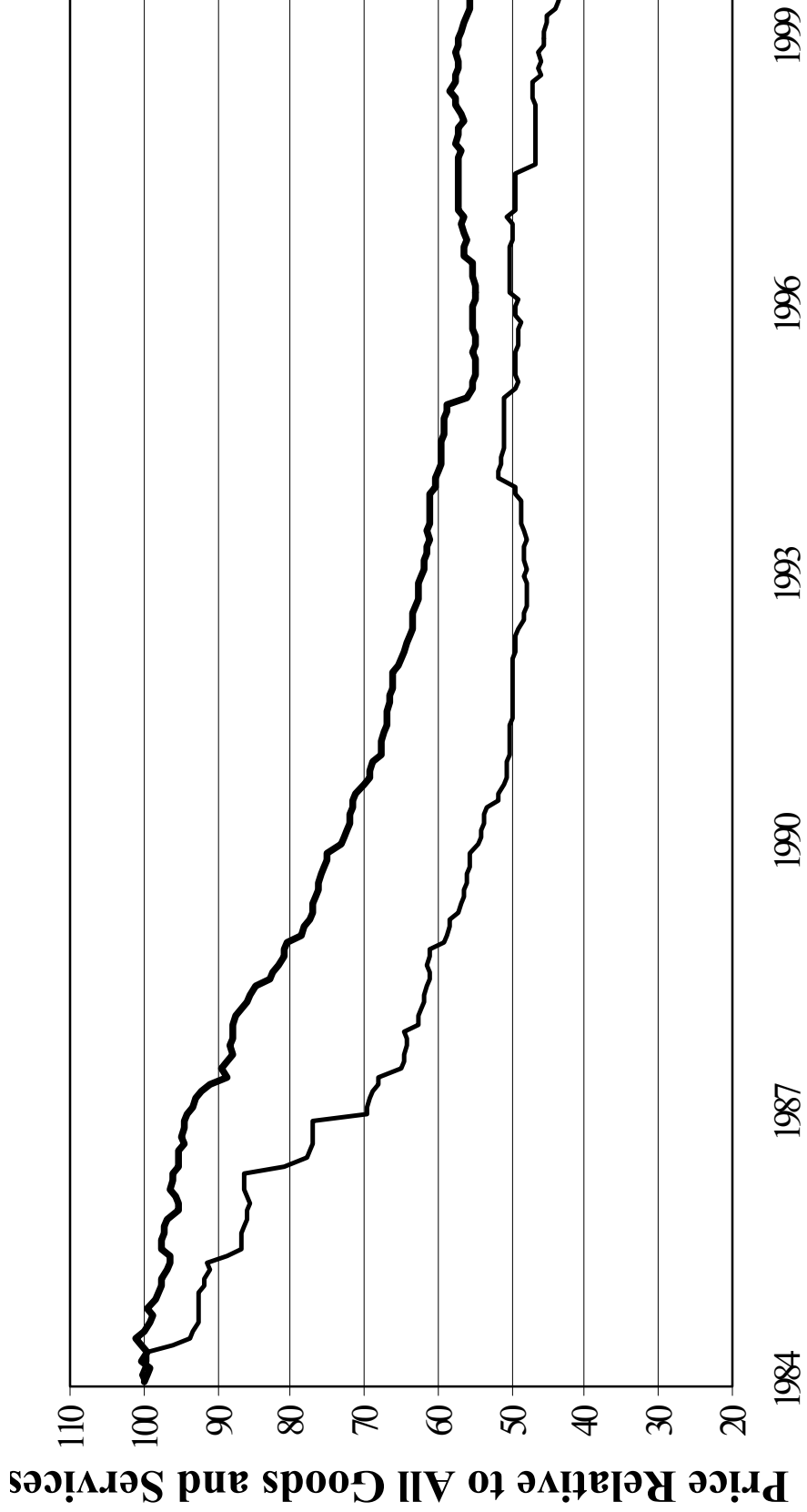


Table 3.2
Consumer Price Indices
(1982 - 84 = 100)

	All Goods & Services	Telephone Services	Local Services	Interstate Toll Service	Intrastate Toll Service
BLS Series ID	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		
	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		

Table 3.2
Consumer Price Indices - Continued
(1982 - 84 = 100)

	All Goods & Services	Telephone Services	Local Services	Interstate Toll Service	Intrastate Toll Service	
BLS Series ID	CUUR0000SA0	CUUR0000SE270A	CUUR0000SEED01	CUUR0000SS27051	CUUR0000SS27061	
1976	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			
	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			
1977	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			
	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
1978	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
	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

Table 3.2
Consumer Price Indices - Continued
(1982 - 84 = 100)

	All Goods & Services	Telephone Services	Local Services	Interstate Toll Service	Intrastate Toll Service	
BLS Series ID	CUUR0000SA0	CUUR0000SE270A	CUUR0000SEED01	CUUR0000SS27051	CUUR0000SS27061	
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
	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

Table 3.2
Consumer Price Indices - Continued
(1982 - 84 = 100)

	All Goods & Services	Telephone Services	Local Services	Interstate Toll Service	Intrastate Toll Service	
BLS Series ID	CUUR0000SA0	CUUR0000SE270A	CUUR0000SEED01	CUUR0000SS27051	CUUR0000SS27061	
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
	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

Table 3.2
Consumer Price Indices - Continued
(1982 - 84 = 100)

	All Goods & Services	Telephone Services	Local Services	Interstate Toll Service	Intrastate Toll Service	
BLS Series ID	CUUR0000SA0	CUUR0000SE270A	CUUR0000SEED01	CUUR0000SS27051	CUUR0000SS27061	
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
	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	95.2
	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

Table 3.2
Consumer Price Indices - Continued
(1982 - 84 = 100)

	All Goods & Services	Telephone Services	Local Services	Interstate Toll Service	Intrastate Toll Service	
BLS Series ID	CUUR0000SA0	CUUR0000SE270A	CUUR0000SEED01	CUUR0000SS27051	CUUR0000SS27061	
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
	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
	December	153.5	124.6	160.7	75.8	86.8

Table 3.2
Consumer Price Indices - Continued
(1982 - 84 = 100)

	All Goods & Services	Telephone Services	Local Services	Interstate Toll Service	Intrastate Toll Service	
BLS Series ID	CUUR0000SA0	CUUR0000SE270A	CUUR0000SEED01	CUUR0000SS27051	CUUR0000SS27061	
1996	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		163.8	75.2	94.3
	February	161.9	(Discontinued)	164.4	75.3	93.7
	March	162.2	refer to	165.6	75.3	94.4
	April	162.5	Table 3.3 for a	165.6	75.3	95.6
	May	162.8	revised	165.7	76.3	96.2
	June	163.0	Telephone	166.1	76.1	97.1
	July	163.2	Services index.	166.2	76.7	95.9
	August	163.4		166.0	74.5	96.2
	September	163.6		166.1	75.2	96.0
	October	164.0		166.3	75.2	96.2
	November	164.0		166.4	75.8	96.7
	December	163.9		166.0	74.6	96.1
1999	January	164.3		167.4	74.7	95.9
	February	164.5		167.1	74.5	95.4
	March	165.0		167.6	74.0	95.0
	April	166.2		165.3	74.8	95.4
	May	166.2		168.2	72.5	94.9
	June	166.2		169.1	72.4	94.9
	July	166.7		169.8	71.7	94.7
	August	167.1		170.0	72.1	94.5
	September	167.9		169.8	72.1	93.9
	October	168.2		169.5	72.9	93.6
	November	168.3		170.2	74.5	93.9
	December	168.3		170.7	74.1	94.6

Table 3.2
Consumer Price Indices - Continued
(1982 - 84 = 100)

	All Goods & Services	Telephone Services	Local Services	Interstate Toll Service	Intrastate Toll Service	
BLS Series ID	CUUR0000SA0	CUUR0000SE270A	CUUR0000SEED01	CUUR0000SS27051	CUUR0000SS27061	
2000	January	168.8		171.6	73.9	94.8
	February	169.8		171.9	70.7	93.9
	March	171.2		172.2	70.0	93.3
	April	171.3		172.3	69.5	92.6
	May	171.5		172.4	69.2	92.4
	June	172.4		173.3	66.9	90.0
	July	172.8		175.8	67.5	90.6
	August	172.8		179.3	67.1	90.1
	September	173.7		177.7	64.8	87.1
	October	174.0		179.8	66.1	88.0
	November	174.1		180.7	63.9	87.0
	December	174.0		180.1	65.8	88.9
2001	January	175.1		181.0	66.2	89.2
	February	175.8		181.4	65.9	88.7
	March	176.2		181.6	66.9	89.5
	April	176.9		183.3	65.6	88.2
	May	176.7		183.7	64.8	87.7
	June	178.0		184.0	65.2	88.1
	July	177.5		185.5	65.3	88.1
	August	177.5		186.6	65.0	87.8
	September	178.3		186.9	64.3	87.1
	October	177.7		187.7	65.0	88.0
	November	177.4		188.1	64.3	87.3
	December	176.7		188.2	64.5	87.4

Table 3.3
New Consumer Price Indices
(December 1997 = 100)

	Telephone Services	Local Telephone Service	Long Distance Charges	Interstate Toll Service	Intrastate Toll Service	Cellular Telephone Services
BLS Series ID	CUUR0000SEED	CUUR0000SEED01	CUUR0000SEED02	CUUR0000SS27051	CUUR0000SS27061	CUUR0000SEED03
December	100.0	100.0	100.0	100.0	100.0	100.0
1998 January	99.9	100.0	99.8	100.0	99.6	99.0
February	100.0	100.4	99.7	100.1	98.9	98.1
March	100.4	101.1	99.9	100.1	99.7	97.4
April	100.5	101.1	100.1	100.1	101.0	96.4
May	101.1	101.2	101.3	101.5	101.6	96.2
June	101.4	101.4	101.7	101.2	102.5	94.4
July	101.5	101.5	101.9	102.0	101.3	94.2
August	100.4	101.3	99.9	99.1	101.6	93.9
September	100.7	101.4	100.4	100.0	101.4	94.1
October	100.7	101.5	100.4	100.0	101.6	93.7
November	101.1	101.6	101.0	100.8	102.1	92.4
December	100.3	101.3	99.9	99.2	101.5	91.7
1999 January	100.7	102.2	99.9	99.3	101.3	90.9
February	100.4	102.0	99.5	99.1	100.7	89.7
March	100.2	102.3	98.9	98.4	100.3	89.0
April	100.0	100.9	99.8	99.5	100.7	87.8
May	99.6	102.7	97.5	96.4	100.2	85.8
June	99.7	103.2	97.4	96.3	100.2	84.0
July	99.5	103.7	96.7	95.3	100.0	82.9
August	99.8	103.8	97.1	95.9	99.8	82.3
September	99.6	103.7	96.8	95.9	99.2	82.6
October	99.8	103.5	97.4	96.9	98.8	82.0
November	100.6	103.9	98.7	99.1	99.2	81.2
December	100.7	104.2	98.6	98.5	99.9	81.1
2000 January	100.9	104.8	98.5	98.3	100.1	80.6
February	99.4	104.9	95.5	94.0	99.2	79.7
March	98.9	105.1	94.4	93.1	98.5	79.2
April	98.6	105.2	93.7	92.4	97.8	78.9
May	98.5	105.3	93.4	92.0	97.6	78.2
June	97.2	Discontinued as Part of	90.6	Discontinued as Part of	Discontinued as Part of	76.8
July	98.2	New CPI Indices.	91.3	New CPI Indices.	New CPI Indices.	74.9
August	98.9	Still Part of	90.7	Still Part of	Still Part of	73.7
September	97.0	Original CPI	87.9	Original CPI	Original CPI	72.8
October	98.3	Indices.	89.4	Indices.	Indices.	73.0
November	97.5		87.2			72.9
December	98.4		89.5			71.1
2001 January	98.8		89.9			68.9
February	98.7		89.5			68.9
March	99.4		90.7			68.7
April	99.0		89.1			68.8
May	98.7		88.2			68.5
June	99.0		88.7			68.1
July	99.6		88.9			68.6
August	99.6		88.5			68.1
September	99.2		87.6			67.2
October	99.9		88.5			67.1
November	99.6		87.6			67.5
December	99.7		87.9			67.2

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. This index, formerly known as the Wholesale Price Index, 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 3.4 presents the monthly PPI indices for the period since their revision in mid-1995. Certain Producer Price Index categories were discontinued in 1995. These PPIs may be found at <www.bls.gov>.

Table 3.4
Producer Price Indices
(June 1995 = 100)

	Final Demand	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 ID	pcubfd1#	pcu4813#	pcu4813#1	pcu4813#111	pcu4813#112	pcu4813#113	pcu4813#114	pcu4813#11401
1995 June	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
July	100.0	102.8	100.0	100.0	100.0	100.0	100.0	100.0
August	99.9	100.7	100.0	100.0	100.0	100.0	100.0	100.0
September	99.8	100.6	100.1	100.0	100.2	100.6	100.0	100.0
October	100.4	100.4	100.0	99.8	100.2	100.6	100.0	100.0
November	100.4	99.6	100.0	99.8	100.2	100.6	100.0	100.0
December	100.8	99.6	100.0	99.8	100.2	100.6	100.0	100.0
1996 January	101.1	99.3	100.0	99.8	100.1	100.6	100.0	100.0
February	101.1	99.6	100.0	99.8	100.2	100.6	100.0	100.0
March	101.6	99.5	100.1	99.8	100.2	101.9	100.0	100.0
April	102.0	99.7	100.1	99.8	100.2	101.9	100.0	100.0
May	102.6	99.5	100.1	99.8	100.2	101.9	100.0	100.0
June	102.9	99.9	100.2	100.0	100.2	101.9	100.0	100.0
July	102.8	100.3	100.3	100.0	100.4	102.0	100.0	100.0
August	103.0	100.6	100.4	100.0	100.5	102.0	100.0	100.0
September	102.9	100.5	100.4	100.0	100.5	102.0	100.0	100.0
October	103.7	100.4	100.4	100.0	100.5	102.0	100.0	100.0
November	103.4	100.1	100.4	100.0	100.5	102.0	100.0	100.0
December	103.4	99.5	100.4	100.0	100.5	102.0	100.0	100.0
1997 January	103.5	100.5	100.4	100.0	100.5	102.0	100.0	100.0
February	103.3	99.8	100.4	100.0	100.5	102.0	100.0	100.0
March	103.1	99.0	100.3	100.0	100.5	102.0	100.0	100.0
April	102.6	99.2	100.4	100.0	100.6	102.0	100.0	100.0
May	102.8	99.9	100.5	100.2	100.7	102.1	100.0	100.0
June	102.7	100.4	100.5	100.2	100.7	102.1	100.0	100.0
July	102.5	100.1	100.4	100.1	100.5	102.1	100.0	100.0
August	102.8	100.4	100.4	100.1	100.5	102.1	100.0	100.0
September	102.9	99.3	100.4	100.1	100.5	102.1	100.0	100.0
October	103.3	99.0	100.4	100.2	100.5	102.1	100.0	100.0
November	102.9	99.0	100.5	100.2	100.5	102.1	102.3	103.6
December	102.5	99.1	100.4	100.2	100.5	101.4	102.3	103.6
1998 January	101.8	99.2	100.5	100.2	100.6	101.7	102.3	103.6
February	101.7	99.0	100.5	100.2	100.6	101.7	102.3	103.6
March	101.6	98.7	100.5	100.2	100.6	101.7	102.3	103.6
April	101.9	98.6	100.5	100.2	100.6	101.7	102.3	103.6
May	102.0	98.7	100.4	100.0	100.5	101.7	102.3	103.6
June	102.0	98.2	100.3	100.0	100.4	101.7	102.3	103.6
July	102.3	99.0	100.3	100.1	100.3	101.7	102.3	103.6
August	102.0	98.7	100.3	100.1	100.3	101.7	102.3	103.6
September	102.0	98.5	100.3	100.1	100.4	101.7	102.3	103.6
October	102.7	97.9	100.3	100.1	100.3	101.7	102.3	103.6
November	102.1	97.3	100.3	100.1	100.3	101.7	102.3	103.6
December	102.2	97.4	100.3	100.1	100.4	101.7	102.3	103.6
1999 January	102.5	96.9	100.4	100.2	100.4	101.7	102.3	103.6
February	102.1	96.2	100.4	100.2	100.5	101.7	102.3	103.6
March	102.3	96.6	100.4	100.2	100.5	101.7	102.3	103.6
April	103.0	97.3	100.5	100.2	100.5	101.7	102.3	103.6
May	103.4	97.0	100.5	100.2	100.5	101.7	102.3	103.6
June	103.7	97.1	100.5	100.2	100.5	101.7	102.3	103.6
July	104.0	95.5	100.5	100.2	100.5	101.8	102.5	104.0
August	104.5	95.8	100.5	100.2	100.5	101.8	102.5	104.0
September	105.3	95.7	100.5	100.4	100.5	101.8	102.5	104.0
October	105.7	95.2	100.5	100.4	100.5	101.8	102.5	104.0
November	105.6	94.3	100.5	100.4	100.5	101.8	102.5	104.0
December	105.7	94.5	100.5	100.3	100.5	101.8	102.5	104.0
2000 January	105.5	94.8	100.6	100.3	100.6	101.8	102.5	104.0
February	106.6	94.1	100.6	100.3	100.6	101.8	102.5	104.0
March	107.0	94.8	100.7	100.3	100.9	101.8	102.5	104.0
April	106.9	94.1	100.7	100.5	100.7	101.5	102.5	104.0
May	107.5	93.4	100.7	100.6	100.6	101.9	102.5	104.0
June	108.5	94.1	100.8	100.8	100.5	102.3	102.5	104.0
July	108.5	94.0	101.3	101.7	100.6	102.7	102.5	104.0
August	108.2	94.0	101.3	101.7	100.6	103.2	102.5	104.0
September	109.4	93.8	101.5	101.9	100.6	103.6	102.6	104.2
October	109.8	93.4	101.4	101.9	100.5	103.6	102.6	104.2
November	109.6	93.0	101.4	101.9	100.5	103.6	102.6	104.2
December	109.4	93.1	101.4	101.9	100.5	103.6	102.6	104.2
2001 January	110.7	92.2	101.4	101.9	100.5	103.6	102.8	104.5
February	110.4	92.0	101.5	101.9	100.5	103.6	102.8	104.5
March	110.1	92.0	101.5	101.9	100.5	103.6	102.8	104.5
April	110.6	91.9	101.9	102.5	100.7	103.5	102.8	104.5
May	111.5	91.8	101.9	102.6	100.7	103.4	102.8	104.5
June	111.1	91.4	102.0	102.9	100.7	103.6	102.8	104.5
July	110.0	91.5	102.7	104.4	100.7	103.7	103.1	104.8
August	110.2	91.8	102.8	104.4	100.7	103.9	103.1	104.8
September	110.8	92.0	102.9	104.5	100.7	104.1	103.1	104.8
October*	108.9	89.8	102.7	104.2	100.7	104.3	103.1	104.8
November*	108.3	90.0	102.8	104.4	100.7	104.3	103.1	104.8
December*	107.2	89.4	102.8	104.4	100.7	104.3	103.1	104.8

* Subject to revision.

Table 3.4
Producer Price Indices - Continued
(June 1995 = 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
BLS Series ID	pcu4813#11409	pcu4813#2	pcu4813#21	pcu4813#211	pcu4813#212	pcu4813#213	pcu4813#22	pcu4813#221
1995 June	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
August	100.0	101.3	101.3	101.1	103.7	95.7	101.4	101.4
September	100.0	101.0	101.0	103.2	100.1	97.2	101.0	102.1
October	100.0	100.8	102.0	105.8	100.9	96.4	99.5	100.3
November	100.0	99.3	99.7	102.9	98.1	94.3	98.8	99.2
December	100.0	99.1	100.1	104.2	96.3	97.1	98.0	98.4
1996 January	100.0	98.8	99.6	101.6	99.3	95.0	97.8	98.7
February	100.0	99.3	100.3	104.7	98.2	95.0	98.0	99.0
March	100.0	99.0	101.3	106.3	98.8	92.9	96.3	96.5
April	100.0	99.3	100.6	104.2	98.6	93.3	97.8	98.4
May	100.0	98.8	100.8	106.0	97.9	93.8	96.5	96.7
June	100.0	99.5	101.2	106.0	98.2	94.2	97.5	97.2
July	100.0	100.2	102.8	106.4	102.3	92.8	97.1	97.4
August	100.0	100.9	103.3	110.4	99.2	90.5	98.0	99.4
September	100.0	100.6	102.1	107.8	98.1	89.3	98.9	100.3
October	100.0	100.4	101.2	104.0	101.3	85.9	99.4	102.5
November	100.0	99.9	100.1	105.7	99.1	79.8	99.7	101.3
December	100.0	98.8	99.2	105.1	97.0	77.8	98.2	99.2
1997 January	100.0	100.6	102.7	103.5	105.4	82.0	98.0	100.1
February	100.0	99.3	101.7	103.1	104.1	79.6	96.4	98.8
March	100.0	97.7	99.5	102.2	99.0	80.2	95.7	98.3
April	100.0	98.2	100.2	101.0	102.2	80.1	95.8	98.7
May	100.0	99.3	101.4	101.8	105.0	80.1	96.9	100.7
June	100.0	100.3	101.8	101.4	104.9	84.4	98.5	103.2
July	100.0	99.7	102.2	99.9	107.0	85.1	96.7	103.0
August	100.0	100.4	103.4	100.9	107.1	85.6	96.9	104.2
September	100.0	98.4	100.9	100.5	104.2	85.6	95.5	103.2
October	100.0	97.8	99.4	100.7	102.0	84.7	95.8	103.3
November	100.0	97.6	98.2	103.9	97.3	80.7	96.9	104.6
December	100.0	97.9	99.7	100.6	104.6	83.4	95.8	104.4
1998 January	100.0	98.0	100.5	99.0	107.2	82.7	95.0	102.9
February	100.0	97.7	100.2	96.7	110.0	76.8	94.6	103.0
March	100.0	97.2	100.8	94.0	115.1	78.1	93.0	100.5
April	100.0	97.0	99.1	97.8	107.3	78.0	94.4	103.0
May	100.0	97.2	99.9	99.2	107.3	79.6	94.0	102.7
June	100.0	96.4	98.9	99.3	105.3	77.6	93.5	102.2
July	100.0	97.9	100.9	99.0	108.7	76.3	94.3	103.4
August	100.0	97.2	99.6	97.8	109.1	76.7	94.3	102.3
September	100.0	96.8	98.7	97.2	108.3	74.2	94.6	105.8
October	100.0	95.7	98.9	97.5	107.8	76.4	92.0	102.6
November	100.0	94.6	96.3	96.9	102.4	73.2	92.5	102.3
December	100.0	94.8	96.2	96.9	104.2	68.3	93.1	103.4
1999 January	100.0	93.9	97.3	97.2	105.0	72.7	89.9	100.0
February	100.0	92.5	95.4	96.4	102.0	69.6	89.1	99.7
March	100.0	93.3	96.9	97.0	106.0	68.0	89.0	100.0
April	100.0	94.5	97.6	96.6	108.0	69.1	90.8	101.2
May	100.0	93.9	97.3	96.8	106.8	69.5	89.9	100.5
June	100.0	94.2	97.4	96.7	107.2	69.3	90.5	101.9
July	100.0	91.1	98.4	97.2	108.7	71.6	82.4	93.8
August	100.0	91.7	99.4	97.5	110.1	73.9	82.5	95.8
September	100.0	91.4	99.0	96.6	110.1	73.1	82.4	94.8
October	100.0	90.5	97.6	96.9	107.5	69.7	82.1	94.1
November	100.0	88.8	95.4	95.2	104.0	67.0	80.9	92.4
December	100.0	89.3	95.8	94.3	106.6	65.8	81.5	93.4
2000 January	100.0	89.7	96.5	94.8	107.4	67.5	81.6	95.4
February	100.0	88.4	94.1	96.2	100.1	65.9	81.6	92.9
March	100.0	89.7	96.2	95.0	105.9	68.2	82.1	95.3
April	100.0	88.3	94.6	94.4	102.8	67.0	80.8	93.4
May	100.0	87.0	92.9	93.6	99.3	65.7	80.0	93.2
June	100.0	88.3	95.1	94.4	104.1	67.0	80.3	94.0
July	100.0	87.8	94.3	93.8	102.1	68.0	80.0	94.6
August	100.0	87.7	94.2	93.8	102.2	67.2	80.0	94.5
September	100.0	87.3	94.8	93.9	104.7	64.5	78.4	92.6
October	100.0	86.6	93.2	93.5	101.7	61.6	78.8	93.1
November	100.0	85.6	92.6	93.5	101.7	58.4	77.3	91.5
December	100.0	85.9	93.0	93.7	101.8	60.2	77.5	91.1
2001 January	100.0	84.2	92.2	93.3	107.4	60.9	74.7	87.6
February	100.0	83.8	92.1	94.1	99.5	61.8	73.9	87.9
March	100.0	83.9	92.4	94.7	98.2	61.3	73.8	87.5
April	100.0	83.4	92.1	94.3	98.6	61.3	73.0	87.2
May	100.0	83.1	92.2	94.3	98.2	60.4	72.2	85.8
June	100.0	82.4	91.4	95.2	98.9	57.4	71.6	84.7
July	100.0	81.9	91.3	95.6	96.9	57.9	70.7	84.3
August	100.0	82.5	92.8	95.8	96.0	54.8	70.2	83.2
September	100.0	82.7	91.7	95.9	101.2	52.9	72.0	84.3
October*	100.0	78.9	87.9	94.5	98.9	50.0	68.1	80.5
November*	100.0	79.0	88.8	94.8	90.9	45.9	67.3	77.5
December*	100.0	78.0	87.5	95.0	94.8	43.9	66.7	77.0

* Subject to revision.

Table 3.4
Producer Price Indices - Continued
(June 1995 = 100)

	Outbound Business Switched Access Toll Service	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 ID	pcu4813#2211	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	100.0
July	103.8	100.6	102.7	116.4	104.4	100.6	107.5	94.6
August	101.3	100.7	102.7	99.2	101.6	100.7	101.8	103.9
September	103.1	101.0	103.3	109.4	100.3	98.9	101.1	92.4
October	99.4	100.8	98.9	97.0	101.9	98.3	104.1	99.3
November	99.4	100.8	98.5	97.9	98.9	99.5	99.5	95.5
December	99.2	100.3	98.5	98.9	97.1	101.0	93.5	107.1
1996 January	99.1	100.9	95.9	102.7	98.0	96.2	95.6	106.6
February	98.3	101.5	96.5	94.0	100.1	97.4	98.8	101.2
March	96.2	100.7	93.7	88.7	97.0	95.3	90.4	93.4
April	98.0	101.2	94.8	96.3	99.0	95.9	94.9	91.0
May	97.8	101.6	95.1	93.9	94.7	91.2	92.3	88.1
June	97.5	101.1	96.5	87.6	96.5	96.6	90.0	93.9
July	97.2	101.6	95.3	88.8	97.7	95.6	89.6	93.2
August	99.7	102.0	101.6	88.5	98.9	91.4	94.8	100.6
September	101.7	102.2	108.2	84.0	97.7	92.3	94.2	92.9
October	105.0	103.1	114.5	87.4	98.1	91.0	94.4	93.6
November	101.4	101.7	106.0	89.1	101.0	91.6	97.9	86.7
December	97.8	101.8	98.2	82.2	101.5	90.8	91.5	93.2
1997 January	97.6	102.6	96.1	86.6	104.4	87.1	95.6	101.5
February	97.5	102.4	98.8	81.1	101.0	90.5	95.5	91.8
March	97.9	101.0	98.2	89.1	98.9	90.3	93.0	82.8
April	98.7	100.8	100.5	88.7	98.8	90.7	92.2	90.2
May	100.7	101.3	106.5	85.8	100.8	87.8	99.0	86.9
June	103.7	100.4	113.6	90.7	102.4	86.9	100.5	91.7
July	105.9	100.4	121.0	86.0	98.1	82.2	94.0	84.4
August	107.0	100.8	124.0	85.2	99.4	81.7	97.4	79.4
September	107.9	101.9	125.9	83.1	95.2	79.7	88.9	72.5
October	107.6	102.1	124.0	86.7	95.9	80.8	87.4	74.3
November	108.3	101.7	125.9	88.3	98.2	79.5	92.0	79.8
December	108.8	103.0	126.3	87.2	96.6	75.6	90.9	73.9
1998 January	108.7	102.6	126.3	85.3	92.8	76.0	85.4	68.8
February	111.1	102.5	132.1	87.5	88.9	74.2	84.7	74.3
March	108.9	102.3	128.2	83.6	85.9	75.7	80.6	74.8
April	112.6	102.5	137.3	85.8	86.4	72.9	84.2	67.3
May	111.5	101.6	135.6	86.5	87.3	69.5	85.8	62.3
June	111.2	102.8	132.8	87.0	86.5	70.0	85.0	59.8
July	112.0	103.7	134.6	85.3	88.4	75.6	85.6	60.1
August	112.9	104.2	135.4	87.9	84.1	74.2	78.6	62.8
September	115.6	105.6	142.1	85.2	88.7	75.6	86.7	61.1
October	111.2	106.9	130.0	82.3	87.6	74.6	85.4	55.7
November	111.4	106.4	129.1	87.1	86.6	70.5	84.8	60.1
December	112.5	106.3	132.1	87.8	87.5	73.8	84.6	65.6
1999 January	108.1	104.7	122.2	88.1	86.0	75.3	79.6	69.9
February	106.4	104.5	118.4	86.2	88.0	78.0	83.4	65.2
March	107.5	104.9	120.3	88.0	87.0	74.7	82.9	65.4
April	107.9	104.3	122.2	88.1	89.4	76.5	86.8	70.9
May	107.9	104.1	120.6	92.3	87.8	74.4	83.7	75.7
June	110.5	104.7	123.8	100.2	86.9	73.6	82.4	74.5
July	100.0	102.5	104.6	84.2	83.0	70.7	74.5	79.3
August	103.2	102.9	112.9	83.5	83.0	70.0	75.3	74.4
September	101.8	102.5	110.4	82.1	82.5	69.8	74.8	69.0
October	100.0	102.3	109.6	72.6	83.7	70.5	76.1	79.9
November	98.8	101.9	108.1	69.3	81.3	68.3	72.3	74.7
December	99.3	101.9	107.0	75.4	83.1	69.7	75.0	81.2
2000 January	102.1	102.4	109.9	85.2	83.8	70.7	76.6	76.2
February	98.5	101.5	104.8	76.9	83.2	70.2	75.7	75.0
March	101.4	103.0	113.6	69.3	84.6	76.1	74.9	80.1
April	100.0	102.0	110.5	70.5	81.9	69.5	74.6	58.9
May	100.5	102.0	110.5	74.0	80.7	68.4	72.7	56.5
June	100.6	102.2	111.1	72.6	82.6	68.8	77.4	52.0
July	101.6	102.2	110.5	80.9	82.5	68.7	77.3	51.0
August	101.6	102.2	110.8	80.3	82.2	68.3	76.6	54.1
September	100.1	102.0	110.0	73.0	79.5	61.9	74.2	51.9
October	98.9	101.8	108.2	69.6	83.1	69.4	78.2	52.9
November	97.5	101.3	105.6	68.3	81.1	67.5	75.2	46.9
December	96.9	100.8	103.0	72.4	81.1	67.2	74.8	52.5
2001 January	92.1	99.4	95.6	62.8	79.7	65.8	72.5	51.1
February	91.2	99.0	95.5	58.0	82.2	68.5	77.3	46.8
March	91.0	99.5	92.7	62.2	81.5	67.6	75.7	51.4
April	91.0	98.4	96.1	57.1	80.6	66.3	74.5	50.7
May	89.3	97.7	93.2	55.1	79.7	66.4	72.3	49.6
June	87.0	98.0	86.7	55.3	80.6	66.7	74.3	49.3
July	87.1	98.4	86.3	55.3	79.4	67.5	71.0	49.3
August	86.2	98.3	85.6	51.9	77.8	64.9	69.1	47.4
September	88.2	97.6	91.1	53.3	77.6	63.5	68.9	51.9
October*	81.5	95.3	77.5	49.2	78.7	66.8	70.1	45.6
November*	80.1	96.7	70.6	53.2	73.0	61.8	59.9	45.6
December*	79.5	96.3	69.2	53.8	72.8	61.6	59.4	45.9

* Subject to revision.

Table 3.4
Producer Price Indices - Continued
(June 1995 = 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 ID	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	98.9	152.8	107.3	101.6
August	101.3	100.3	105.6	98.9	100.4	103.3	107.4
September	99.1	97.7	98.9	95.3	99.7	101.7	104.9
October	98.0	98.3	107.4	92.9	105.7	97.5	93.8
November	98.0	98.5	105.8	94.9	105.1	97.0	93.3
December	97.3	97.8	100.0	95.3	103.8	96.4	94.2
1996 January	96.3	95.8	105.2	92.6	97.8	97.1	93.5
February	96.4	95.1	103.6	91.7	96.6	98.9	96.7
March	95.8	94.3	101.2	89.4	98.7	98.5	92.5
April	96.9	95.3	102.1	92.4	97.1	99.9	108.5
May	96.2	96.6	93.8	92.2	100.6	95.5	98.3
June	98.2	96.2	102.2	86.6	103.2	101.6	102.2
July	96.7	95.1	112.2	82.9	101.7	99.4	101.2
August	95.6	95.9	110.6	89.6	101.2	95.0	101.7
September	96.6	95.1	100.7	91.6	98.7	99.3	100.1
October	94.2	93.3	96.0	91.2	93.2	95.9	103.0
November	96.9	93.6	93.8	94.3	91.5	102.9	113.1
December	96.7	90.7	90.3	87.7	93.7	107.3	103.0
1997 January	94.6	90.5	85.5	86.9	97.4	102.0	106.0
February	92.3	89.6	87.9	88.8	94.4	97.3	109.9
March	91.2	88.5	86.3	85.2	95.3	96.2	106.7
April	91.0	89.0	88.3	87.8	93.1	94.6	101.3
May	90.5	86.7	87.0	85.6	88.8	97.3	102.5
June	90.5	87.3	82.0	83.7	89.3	96.1	99.9
July	86.1	83.3	83.4	77.7	90.5	91.1	98.5
August	84.4	81.0	83.5	74.0	89.0	90.6	96.0
September	82.4	76.9	82.8	68.5	83.2	92.3	86.6
October	83.2	77.9	81.2	72.4	81.7	92.7	88.4
November	83.8	77.8	85.5	72.0	82.1	94.6	80.3
December	81.3	76.8	86.0	69.3	79.3	89.5	79.1
1998 January	81.7	75.9	83.4	69.0	82.3	92.2	71.7
February	80.6	73.2	79.7	65.7	82.6	93.9	73.6
March	80.3	76.7	85.8	69.9	86.0	86.7	68.4
April	79.7	74.7	77.9	70.3	80.9	88.8	65.6
May	79.2	73.0	79.8	69.6	75.2	90.4	71.2
June	78.8	68.7	76.0	63.5	72.3	96.9	76.8
July	79.0	67.4	65.2	64.6	70.2	99.9	79.0
August	80.7	70.5	70.4	65.1	78.1	99.0	74.9
September	75.8	66.1	70.5	62.9	66.4	93.3	80.4
October	74.1	65.4	65.7	62.1	67.7	89.6	74.9
November	76.0	70.1	71.4	68.0	72.4	86.5	77.2
December	75.9	67.2	70.1	63.3	70.3	91.4	79.3
1999 January	72.9	65.4	67.0	61.4	68.5	86.3	77.3
February	71.2	63.5	63.0	58.3	68.0	84.9	84.6
March	70.5	62.3	63.5	58.5	63.8	85.2	80.3
April	73.3	64.7	69.5	63.6	61.5	88.6	79.8
May	72.0	63.1	66.0	63.5	57.7	88.0	79.9
June	71.2	60.0	61.9	60.0	54.2	91.2	83.8
July	63.0	58.3	61.5	56.6	53.6	71.6	64.0
August	60.1	51.5	54.5	53.1	38.7	75.7	67.4
September	61.4	54.2	58.7	55.0	43.4	74.4	65.5
October	61.9	57.6	60.8	57.3	50.6	69.5	59.5
November	61.4	53.9	54.0	51.2	50.1	74.8	65.6
December	61.5	56.0	56.3	53.7	52.5	71.2	61.6
2000 January	58.2	50.6	47.0	44.9	51.3	71.9	62.4
February	62.4	55.5	55.3	51.9	53.8	74.8	66.0
March	59.7	52.6	52.3	49.4	49.1	72.5	63.1
April	59.7	53.2	52.6	50.2	49.7	71.3	61.6
May	57.7	51.7	50.0	48.3	48.6	68.5	58.3
June	57.0	50.5	51.3	48.4	43.8	68.8	58.6
July	55.4	49.0	49.4	48.0	40.3	66.8	56.1
August	55.6	48.7	50.3	48.2	38.5	67.9	57.4
September	54.3	46.5	46.3	45.3	36.9	68.3	57.9
October	54.7	48.9	49.2	46.8	41.6	65.3	54.3
November	53.3	48.2	49.1	47.2	38.7	62.5	50.9
December	54.5	45.7	45.5	44.2	36.4	70.3	60.5
2001 January	53.0	43.8	40.7	39.4	39.0	69.5	59.5
February	50.2	42.8	43.1	39.7	34.4	63.5	52.1
March	50.7	41.9	41.1	39.5	32.2	66.5	55.4
April	48.9	41.3	47.0	34.8	35.4	62.4	52.9
May	49.3	41.4	49.5	35.5	33.8	63.4	58.5
June	49.6	40.7	44.4	34.9	34.4	65.5	56.8
July	47.9	41.1	41.5	38.7	30.8	60.1	49.9
August	48.4	39.5	37.5	34.6	33.0	64.4	57.7
September	51.2	43.5	49.1	37.2	38.5	65.1	58.5
October*	47.3	40.5	49.6	33.5	33.7	59.6	53.3
November*	50.1	41.8	29.2	32.0	48.1	65.0	60.8
December*	49.3	40.5	29.0	31.6	44.5	65.0	60.8

* Subject to revision.

Table 3.4
Producer Price Indices - Continued
(June 1995 = 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 ID	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	100.4	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
March	94.4	96.4	101.0	100.3	100.8	100.9	100.7	100.9	100.0
April	103.5	96.6	101.8	100.3	100.8	100.9	100.7	100.8	100.0
May	101.8	96.4	101.8	100.3	100.8	100.9	100.7	100.8	100.0
June	110.9	96.5	101.8	100.3	100.8	100.9	100.7	100.8	100.0
July	120.4	96.5	102.0	100.3	100.8	100.9	100.7	100.8	100.0
August	121.6	96.4	101.4	100.3	100.8	100.9	100.7	100.8	100.0
September	109.7	96.5	102.3	100.3	100.8	100.9	100.6	100.8	100.0
October	104.3	96.5	102.0	100.3	100.8	100.9	100.8	101.0	100.0
November	98.0	96.2	101.8	100.3	100.8	100.9	100.8	101.0	100.0
December	106.5	96.1	102.0	100.3	100.8	100.9	100.8	101.0	100.0
1999 January	97.6	96.0	101.5	100.2	100.6	100.7	100.8	101.0	100.0
February	93.0	96.1	101.5	100.3	100.8	101.0	100.8	101.0	100.0
March	94.7	96.0	101.5	100.3	100.8	101.0	100.8	101.0	100.0
April	101.2	96.2	101.4	100.3	100.8	101.0	100.8	101.0	100.0
May	100.0	96.2	102.0	100.3	100.8	101.0	100.8	101.0	100.0
June	104.9	96.9	100.1	100.3	100.8	101.0	100.8	101.0	100.0
July	74.2	97.1	101.6	100.3	100.8	100.9	100.2	100.2	100.0
August	80.7	96.5	100.0	100.3	100.8	100.9	100.2	100.2	100.0
September	79.0	96.2	101.9	100.3	100.8	100.9	100.8	101.0	100.0
October	71.6	92.1	100.0	100.3	100.8	100.9	100.8	100.9	100.0
November	79.6	85.0	98.8	100.3	100.8	100.9	100.9	101.1	100.0
December	74.3	84.5	99.1	100.4	101.2	101.4	100.4	100.5	100.0
2000 January	75.2	90.6	99.1	100.4	101.2	101.4	100.7	100.9	100.0
February	79.5	90.0	99.6	100.4	101.2	101.4	100.9	101.0	100.0
March	76.1	90.8	100.2	100.4	101.2	101.4	100.5	100.7	100.0
April	74.3	88.5	100.6	100.4	101.2	101.4	100.6	100.7	100.0
May	70.2	89.1	100.3	100.4	101.2	101.4	100.0	100.0	100.0
June	70.6	89.1	100.8	100.4	101.2	101.4	100.0	100.1	100.0
July	67.6	85.2	100.6	100.4	101.2	101.4	100.7	100.9	100.0
August	69.2	93.0	100.3	100.4	101.2	101.4	100.6	100.7	100.0
September	69.8	95.5	100.4	100.4	101.2	101.4	101.3	101.6	100.0
October	65.2	93.0	99.3	100.4	101.1	101.3	100.0	100.0	100.0
November	61.2	78.2	99.8	100.4	101.2	101.4	101.3	101.6	100.0
December	72.9	88.8	95.6	100.4	101.2	101.4	101.0	101.2	100.0
2001 January	71.6	84.2	101.7	100.4	101.1	101.2	101.5	101.8	100.0
February	62.7	81.3	102.9	100.4	101.0	101.2	101.5	101.8	100.0
March	67.2	84.5	101.0	100.4	101.0	101.2	101.5	101.8	100.0
April	60.4	90.4	101.6	100.4	101.0	101.2	101.5	101.8	100.0
May	60.6	90.1	101.4	100.3	100.7	100.8	101.5	101.8	100.0
June	65.0	93.2	101.2	100.3	101.0	101.1	101.5	101.8	100.0
July	56.9	92.6	100.3	100.3	101.0	101.1	101.4	101.7	100.0
August	62.8	88.5	100.2	100.3	101.0	101.1	101.4	101.7	100.0
September	63.7	87.7	101.0	100.5	101.5	101.7	101.5	101.8	100.0
October*	55.1	85.8	100.6	100.3	101.0	101.1	101.5	101.8	100.0
November*	63.0	80.6	100.3	100.3	101.0	101.1	101.7	102.1	100.0
December*	63.0	80.5	100.3	100.3	101.0	101.1	101.7	102.0	100.0

* Subject to revision.

C. Additional Sources of 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

Appendix A compares long-term trends in residential local and long distance rates to the trends in other economic variables such as federal excise taxes and the cost of a first class letter. Because Appendix A examines long-term trends, AT&T, the main provider of telephone service until 1984, is the main focus of Appendix A. AT&T's basic schedule rate for long distance service has declined rapidly in real dollar terms from January 1, 1928 to January 1, 2001. A 10-minute cross-country AT&T daytime call cost \$27.75 on January 1, 1928, and cost \$2.95 on January 1, 2001. In real dollar terms, this is a decline of 99%. The real price of residential local service has also fallen through time. In real dollar terms, the cost of residential local telephone service fell by 58% from 1940 to 2001.

In addition, Appendix A examines the consumer price index of telephone service, both with and without the federal excise tax, and the overall consumer price index, which allows us to see the real dollar fall in the price of telephone service through time. Since 1929, the overall price of telephone service in real dollar terms has declined by 66.8%. Finally, Appendix A tracks the long-term trend in consumer telephone expenditures, showing that expenditures on telephone service have risen from 0.78% of a typical household's overall consumption expenditures in 1929 to 1.95% of a typical household's overall consumption expenditures in 2000. Given the decline in telephone service prices over this same period, this demonstrates that households have taken advantage of lower prices to make much greater use of telecommunications services.

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		Estimated Federal Excise Taxes			Cost of a First Class Letter
	Mileage			AT&T	FCC Urban	Local	Toll	Combined	
	5	200	2752	Jan 1	Rates Survey Oct 15				
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

Appendix A
Long-Term Trends - Continued

	AT&T Rate for a Residential 10-Minute Daytime Call on January 1			Average Base Rate for a Residential Access Line		Estimated Federal Excise Taxes			Cost of a First Class Letter
	Mileage			AT&T	FCC Urban	Local	Toll	Combined	
	5	200	2752	Jan 1	Rates Survey Oct 15				
1966	0.45	2.20	5.50	5.64		9.0%	10.0%	9.5%	0.05
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		17.25	2.7%	3.0%	2.9%	0.32
1997	2.60	2.90	3.10		17.20	2.7%	3.0%	2.9%	0.32
1998	2.80	2.80	2.80		17.27	2.7%	3.0%	2.9%	0.32
1999	2.80	2.80	2.80		17.35	2.7%	3.0%	2.9%	0.33
2000	2.60	2.60	2.60		18.20	2.7%	3.0%	2.9%	0.33
2001	2.95	2.95	2.95		19.14	2.7%	3.0%	2.9%	0.35

Appendix A
Long-Term Trends - Continued

	Consumer Price Indices 1982-1984 = 100			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%

Appendix A
Long-Term Trends - Continued

	Consumer Price Indices 1982-1984 = 100			Personal Consumption Expenditures (Billions)		
	All Items	Telephone Service	Telephone Service Without FET	Total	Telephone	Telephone as
		Service	Without FET			% of Total
1966	32.4	56.5	51.6	481.9	7.0	1.45%
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	4,969.0	87.8	1.77%
1996	156.9	125.9	122.4	5,237.5	97.1	1.85%
1997	160.5	127.7	124.1	5,524.4	103.9	1.88%
1998	161.6	128.4 *	124.8 *	5,848.6	113.1	1.93%
1999	164.3	127.6 *	124.0 *	6,250.2	122.3	1.96%
2000	168.8	125.6 *	121.9 *	6,728.4	131.3	1.95%
2001	175.1	126.6 *	122.9 *			

* Series revised. May not be comparable to previous years.

Appendix A
Long-Term Trends - Continued

	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			

Appendix A
Long-Term Trends - Continued

	AT&T Chained Rate Index (Business and Residential)			Producer Price Indices 1972=100		
	Local	Intrastate	Interstate & International	Local	Intrastate	Interstate
		Toll	Toll		Toll	Toll
1966	149.7	117.8	77.9			
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	101.9	103.3	102.9
1974				107.7	107.7	103.0
1975	Series Discontinued			112.8	113.8	111.7
1976				118.8	125.6	118.9
1977				118.4	131.9	120.6
1978				120.9	132.0	121.9
1979				123.0	131.6	120.8
1980				126.2	132.3	124.7
1981				141.6	138.1	137.6
1982				153.3	145.6	152.0
1983				163.8	152.1	153.4
1984				182.2	157.1	148.9
1985				200.8	162.0	143.4
1986				216.6	158.0	133.0
1987				220.1	153.5	113.7
1988				217.9	149.3	110.2
1989				229.6	151.7	108.3
1990				229.5	146.3	107.8
1991				232.8	139.7	105.6
1992				234.1	140.8	107.4
1993				236.1	140.2	109.8
1994				237.7	139.2	117.2
1995				244.2		
1996				244.7 *	Series Discontinued	
1997				245.2 *		
1998				245.2 *		
1999				245.4 *		
2000				246.6 *		
2001				249.6 *		

* Series revised. May not be comparable to previous years.

Appendix A
Long-Term Trends - Continued

	Linked Price Index Series 1972 = 100			Other Economic Measures		
	Local	Intrastate Toll	Interstate Toll	Toll Volume Index 1925=100	Moody's Aaa Bond Yields	GDP Billions of 1996 Dollars (Chained)
1925				100	4.88%	
1926				112	4.73%	
1927				122	4.57%	
1928				134	4.55%	
1929				145	4.73%	\$822.2
1930				131	4.55%	751.5
1931				92	4.58%	703.6
1932				99	5.01%	611.8
1933				89	4.49%	603.3
1934				92	4.00%	668.3
1935				96	3.60%	728.3
1936				107	3.24%	822.5
1937				109	3.26%	865.8
1938				108	3.19%	835.6
1939				112	3.01%	903.5
1940	56.7	72.6	130.9	118	2.84%	980.7
1941	56.6	71.3	121.5	136	2.77%	1,148.8
1942	56.6	71.3	121.4	152	2.83%	1,360.0
1943	56.5	70.4	111.0	179	2.73%	1,583.7
1944	56.5	68.5	109.0	195	2.72%	1,714.1
1945	56.5	68.5	104.4	217	2.62%	1,693.3
1946	56.5	68.3	100.1	252	2.53%	1,505.5
1947	59.4	73.4	100.0	265	2.61%	1,495.1
1948	61.9	76.2	100.0	269	2.82%	1,560.0
1949	67.3	83.1	100.0	264	2.66%	1,550.9
1950	69.9	83.9	100.0	260	2.62%	1,686.6
1951	72.2	85.1	100.0	263	2.86%	1,815.1
1952	76.6	87.6	101.5	269	2.96%	1,887.3
1953	78.7	88.9	109.1	278	3.20%	1,973.9
1954	79.9	91.0	109.1	291	2.90%	1,960.5
1955	80.6	90.7	109.1	323	3.06%	2,099.5
1956	81.7	90.5	109.1	356	3.36%	2,141.1
1957	83.4	90.2	109.1	385	3.89%	2,183.9
1958	85.0	92.8	109.3	411	3.79%	2,162.8
1959	85.3	92.9	106.5	450	4.38%	2,319.0
1960	85.6	94.0	106.4	484	4.41%	2,376.7
1961	85.7	94.2	106.4	512	4.35%	2,432.0
1962	85.8	90.7	106.4	556	4.33%	2,578.9
1963	85.8	90.4	105.1	595	4.26%	2,690.4
1964	85.6	89.7	105.1	652	4.40%	2,846.5
1965	85.2	86.9	102.0	727	4.49%	3,028.5

Appendix A
Long-Term Trends - Continued

	Linked Price Index Series 1972 = 100			Other Economic Measures		
	Local	Intrastate	Interstate	Toll Volume Index 1925=100	Moody's Aaa Bond Yields	GDP Billions of 1996 Dollars (Chained)
		Toll	Toll			
1966	85.0	85.5	101.9	817	5.13%	3,227.5
1967	84.8	84.7	99.1	899	5.51%	3,308.3
1968	85.8	84.5	99.7	1,014	6.18%	3,466.1
1969	86.4	85.2	99.9	1,177	7.03%	3,571.4
1970	90.3	89.4	96.8	1,304	8.04%	3,578.0
1971	95.2	99.3	99.6	1,372	7.39%	3,697.7
1972	100.0	100.0	100.0	1,520	7.21%	3,898.4
1973	101.9	103.3	102.9	1,639	7.44%	4,123.4
1974	107.7	107.7	103.0	1,762	8.57%	4,099.0
1975	112.8	113.8	111.7	2,199	8.83%	4,084.4
1976	118.8	125.6	118.9	2,506	8.43%	4,311.7
1977	118.4	131.9	120.6	2,837	8.02%	4,511.8
1978	120.9	132.0	121.9	3,266	8.73%	4,760.6
1979	123.0	131.6	120.8	3,664	9.63%	4,912.1
1980	126.2	132.3	124.7	3,891	11.94%	4,900.9
1981	141.6	138.1	137.6	4,189	14.17%	5,021.0
1982	153.3	145.6	152.0	4,430	13.79%	4,919.3
1983	163.8	152.1	153.4	4,757	12.04%	5,132.3
1984	182.2	157.1	148.9	5,765	12.71%	5,505.2
1985	200.8	162.0	143.4	6,702	11.37%	5,717.1
1986	216.6	158.0	133.0	7,288	9.02%	5,912.4
1987	220.1	153.5	113.7	8,389	9.38%	6,113.3
1988	217.9	149.3	110.2	9,380	9.71%	6,368.4
1989	229.6	151.7	108.3	10,480	9.26%	6,591.8
1990	229.5	146.3	107.8	11,513	9.32%	6,707.9
1991	232.8	139.7	105.6	12,237	8.77%	6,676.4
1992	234.1	140.8	107.4	12,999	8.14%	6,880.0
1993	236.1	140.2	109.8	13,749	7.22%	7,062.6
1994	237.7	139.2	117.2	14,783	7.97%	7,347.7
1995	244.2			15,798	7.59%	7,543.8
1996	244.7 *	Series Discontinued		17,047	7.37%	7,813.2
1997	245.2 *			18,068	7.27%	8,159.5
1998	245.2 *			18,802	6.53%	8,508.9
1999	245.4 *			19,774	7.05%	8,856.5
2000	246.6 *			20,545	7.51%	9,224.0
2001	249.6 *				7.51%	9,332.3

* Series revised. May not be comparable to previous years.

Customer Response Survey

Publication: **Reference Book of Rates, Price Indices, and Household Expenditures for Telephone Service, July 2002**

You can help us provide the best possible information to the public by completing this form and returning it to the Industry Analysis and Technology Division of the FCC's Wireline Competition 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"/> |
| Data presentation | <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"/> |
| Completeness of data | <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"/> |
| Completeness of text | <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

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 Keith Brown at (202) 418 2078

Fax this response to:

OR

Mail this response to:

(202) 418-0520

FCC/IATD
Mail Stop 1600F
Washington, DC 20554