



# NEWS

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See *MCI v. FCC*, 515 F.2d 385 (D.C. Cir. 1974).

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## FCC Releases *Reference Book*

Washington, D.C. – Today, the Federal Communications Commission (FCC) released its annual report, *Reference Book of Rates, Price Indices, and Household Expenditures for Telephone Service*. The report contains information on local and long distance rates paid by residential and business consumers, household expenditures, and price indices. Highlights include the following:

### Rates for Local Service

- The average rate paid by residential customers for touch-tone calling rose from \$22.62 in 2001 to \$23.38 in 2002, an increase of 3.4%. Connection charges for residential customers fell from \$42.95 in 2001 to \$42.39 in 2002, a decrease of approximately 1.3%.
- 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 \$13.21, and LinkUp conferred an average benefit of \$29.73.
- The average rate paid by business customers for a single phone line rose from \$42.43 in 2001 to \$43.59 in 2002, an increase of roughly 2.7%. Connection charges for single-line business customers rose from \$71.86 in 2001 to \$72.35 in 2002, an increase of approximately 0.7%. Service and connection charges for multi-line businesses increased only slightly between 2001 and 2002.

### Toll Service Rates

- The Consumer Price Index for Interstate Toll Service fell by 5.9% during 2002, measured from December 2001 to December 2002, and the Consumer Price Index for Intrastate Toll Service fell by 6.1%, while the overall Consumer Price Index rose by 2.4%.
- The average revenue per minute of long distance, which reflects rates paid by residential and business consumers, has fallen by 47% from \$0.15 in 1992 (when discount and promotional long distance plans were introduced) to \$0.08 in 2001.

## Consumer Expenditures for Telephone Service

- According to Bureau of Labor Statistics (BLS) figures, monthly expenditures on telephone service (which includes wireline, wireless, and data services) by households with telephone service rose \$3.09, from \$73.08 in 2000 to \$76.17 in 2001, an increase of 4.2%. Telephone service continues to comprise approximately 2% of household expenditures.
- According to BLS figures, urban households, who spent \$927 on telephone service during the year 2001, continue to spend more on telephone service than do rural households, who spent \$825 on telephone service during the year 2001.
- According to data for the year 2002 provided by TNS Telecoms, households spent \$436 on local service (up from \$426 in 2001), \$149 on long distance service (down from \$176 in 2001), and \$417 on wireless service (up from \$351 dollars in 2001), for a total annual expenditure of \$1,001 on telephone services (up from \$953 in 2001).

This report is available for reference in the FCC's Reference Information Center, Courtyard Level, 445 12th, S.W. Copies may be purchased by calling Qualex International, Portals II, 445 12th Street S.W., Room CY-B402, Washington, DC 20554, (202) 863-2893, or via e-mail [qualexint@aol.com](mailto:qualexint@aol.com). The report can be downloaded from the **FCC-State Link** Internet site at [www.fcc.gov/wcb/stats](http://www.fcc.gov/wcb/stats).

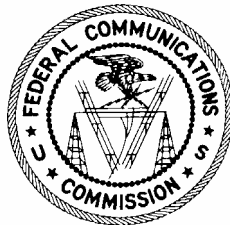
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For further information, contact the Industry Analysis and Technology Division, Wireline Competition Bureau, at (202) 418-0940, or for users of TTY equipment, call 202-418-0484.

**REFERENCE BOOK**  
of Rates, Price Indices, and Household  
Expenditures for Telephone Service

**Paul R. Zimmerman**

Industry Analysis & Technology Division  
Wireline Competition Bureau  
2003



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## Statistical Findings

### Rates for Local Service

- The average rate paid by residential customers for unlimited local touch-tone calling was \$23.38 in 2002, up by approximately 3.4% from \$22.62 in 2001. Connection charges for residential customers fell from \$42.95 to \$42.39 during the same period, a decrease of about 1.3%.
- 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 \$13.21, and LinkUp conferred an average benefit of \$29.73.
- The average rate paid by business customers for a single phone line rose from \$42.43 in 2001 to \$43.59 in 2002, an increase of approximately 2.7%. Connection charges for single-line business customers increased from \$71.86 in 2001 to \$72.35 in 2002, a difference of approximately 0.7%.

### Toll Service Rates

- The increased availability and marketing of discount and promotional long distance plans as well as the popularity of wireless “bucket-of-minutes” plans has made the basic schedule rates obsolete for many long distance customers, particularly business customers and high volume residential consumers. As such, one of the challenges for the future will be to monitor developments in an evolving marketplace, where carriers (such as wireline, wireless, and cable) are offering consumers bundled packages of local and long distance service, and buckets of minutes that can be used to call anyone, anywhere, and anytime.
- The average revenue per minute of long distance calling, which reflects rates paid by residential and business consumers, has fallen by 47% since discount and promotional long distance plans were introduced in 1992.
- The consumer price index for interstate toll service fell by 5.9% during 2002 and the consumer price index for intrastate toll service fell by 6.1% during 2002, while the overall consumer price index rose by 2.4% during 2002.

### Consumer Expenditures for Telephone Service

- Monthly expenditures for telephone service by households with telephone service rose \$3.09, from \$73.08 in 2000 to \$76.17 in 2001, an increase of approximately 4.2%. Telephone service continues to comprise approximately 2% of household expenditures.
- Urban households continue to spend more on telephone service than rural households.
- According to data provided by TNS Telecoms, a marketing research firm, households spent a total of \$1,001 on telephone services during the year 2002: \$436 on local service; \$149 on long distance service; and \$417 on wireless service.

## 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.

The local rate averages presented in this report include subscriber line charges and local number portability surcharges that are tariffed at the FCC. Revenues from these charges are classified as interstate and therefore are included in incumbent local exchange carrier (ILEC) universal service contribution bases. Prior to July 2000, the ILECs recovered the cost of universal service contributions through per-minute interstate access charges. In July 2000, the ILECs began recovering this cost through pass-through charges levied on local exchange service customers. These pass-through charges also are included in our calculations of the base rate for local service.

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, the latter of which is levied on all monthly service charges except for connection charges or state and municipal taxes appearing as separate line items on consumers' bills.

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. Bureau of Labor Statistics (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.<sup>1</sup> The cities surveyed are those that were included in the BLS Consumer Price Index (CPI) in 1986. 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, 2002. The average rate for flat-rate calling with touch-tone service in the 95 cities in the sample was \$23.38. Measured or message service was \$15.75, with an average additional charge of 12 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 \$42.39 on October 15, 2002. 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. The nationwide average connection charge would be \$5.85 higher if these charges were included.

As of October 15, 2002, flat-rate local service was available in all 95 cities. In prior surveys, however, only one type of service was offered in some areas of the country, either flat-rate or measured/message service, and consumers did not have a choice. In order to calculate a national average based upon all of the sample cities in prior years, we calculated a “representative rate.” The representative rate was the flat-rate service charge in those areas where this type of service was available. If flat-rate service was unavailable, the rate for measured/message service was used, along with the charges associated with placing 100 five-minute, same-zone, business-day calls. Table 1.2 presents the national average representative rates from 1986 to 2002. During this seventeen-year period, the average representative rate for residential local service has gone from \$17.70 to \$23.38, and average connection charges have dropped from \$49.25 to \$42.39.

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<sup>1</sup> The last *Reference Book* was published in July 2002.



Table 1.3 provides the rates in each of the 95 cities in the Urban Rates Survey as of October 15, 2002. Tables 1.4 and 1.5 provide historical rates for each of the sample cities.

## **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 2002, qualifying 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 2002, low-income households on the Lifeline program paid \$10.12 per month for local service, as compared to \$23.33 paid by residential subscribers not on the Lifeline program. Low-income households receiving LinkUp assistance obtained an average LinkUp benefit of \$29.73.

Table 1.7 presents the Lifeline and LinkUp rates, as well as the standard rates, in the sample cities as of October 15, 2002.

## **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 \$6.00 at the time of the latest survey. 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 business 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, conference features allowing multiple telephones on the system to access an incoming call, as well as other features such as toll restriction, paging, voicemail, caller id, and speed dialing.

Table 1.13 shows the average monthly charges for a key-system line as of October 15, 2002. 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 (as well as modern key systems) are commonly 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, 2002. 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.

## **B. Toll Service Rates**

Residential customers paid the basic schedule rates for toll service prior to 1992. Providing some historical perspective, Table 1.21 presents 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 1.22 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 subscribe to 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 while others give volume discounts or discounts for calls to certain phone numbers or area codes. One common trend has been the introduction of flat-rate calling plans, which eliminate the mileage bands associated with traditional basic schedules. In addition, so called "all you can call plans" have become an increasingly popular option for many long-distance customers. For instance, AT&T offers a plan which allows unlimited state-to-state, in-state, and local toll calls directly dialed to any other AT&T customer for \$19.95 (not including add-on

charges such as those for universal service, 911 emergency, etc.) per month. MCI's "Neighborhood" plan allows unlimited local, long-distance, and local toll calls (in addition to other features including call waiting and caller ID) for \$49.99 to \$69.99 (not including add-on charges) depending on the subscriber's state of residence.

Section 271 of the Telecommunications Act of 1996 allows the Regional Bell Operating Companies (RBOCs) to provide in-region interLATA interexchange services conditional on the companies satisfying a fourteen-point "checklist" of conditions which demonstrates that their local exchange markets are open to entry by competitive local exchange carriers. In the last year, the RBOCs attained section 271 approval in a significant number of states, and increasingly are offering discounted packages of voice and popular calling features. For example, Verizon's "Freedom" plan offers unlimited long-distance and local calling as well as unlimited voice mail, caller ID, call waiting, speed dialing, and three-way calling for \$49.95 (not including add-on charges) per month. In addition, Verizon offers discounts on its high-speed internet and wireless offerings to those subscribers who sign-up for the "Freedom" plan.

In addition, wireless companies and prepaid calling cards offer more options for long-distance consumers. Wireless companies now offer packages that 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. Consumers may also purchase prepaid calling cards, which contain an allotted number of minutes, with rates less than four cents per minute.

Using revenue per minute data for both residential and business interstate toll traffic, Table 1.23 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 47% since 1992, demonstrating that the advent of discount long distance plans has produced lower rates for both business and residential consumers.

## **C. Additional Sources of Information on Local and Toll Rates**

### **1. Local Rates**

A few states have begun to place exchange service tariffs on the Internet. The National Association of Regulatory Utility Commissioners (NARUC) web site has links to the web sites of all of the state telecommunications regulatory agencies: [www.naruc.org](http://www.naruc.org).

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](http://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 Reference 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](http://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 [www.abtolls.com](http://www.abtolls.com), [www.trac.org](http://www.trac.org), [www.phone-bill-busters.com](http://www.phone-bill-busters.com), and [www.thedigest.com](http://www.thedigest.com).

**Table 1.1**  
**Residential Rates for Local Service in Urban Areas**  
**(As of October 15, 2002)**

	Average Rate	Median Rate <sup>2</sup>
Monthly Charge for Flat-Rate Service <sup>1</sup>	\$14.55	\$13.87
Federal and State Subscriber Line Charges	5.64	6.00
Additional Monthly Charge for Touch-Tone Service	0.04	0.00
Taxes, 911 and Other Charges	3.14	2.75
<b>Total Monthly Charge for Flat-Rate Service</b>	<b>\$23.38</b>	<b>\$22.61</b>
Number of Sample Cities with Flat-Rate Service	95	-
Monthly Charge for Measured/Message Service <sup>1</sup>	\$7.73	\$7.86
Federal and State Subscriber Line Charges	5.45	6.00
Additional Monthly Charge for Touch-Tone Service	0.04	0.00
Taxes, 911 and Other Charges	2.53	2.42
<b>Total Monthly Charge for Measured/Message Service</b>	<b>\$15.75</b>	<b>\$16.28</b>
Cost of a 5-Minute Daytime Call	0.12	0.09
Number of Sample Cities with Message/Measured Service	88	-
Basic Connection Charge	\$39.57	\$40.00
Additional Connection Charge for Touch-Tone Service	0.12	0.00
Taxes	2.70	2.37
<b>Total Connection Charge</b>	<b>\$42.39</b>	<b>\$42.37</b>
Additional Charge if Drop Line and Connection Block	5.85	0.00
Lowest-Cost Inside Wiring Maintenance Plan	\$3.61	\$3.95

<sup>1</sup> Rate reflects universal service fund pass-through charges.

<sup>2</sup> Where a rate exists for fewer than 95 cities the median represents the midpoint rate for those cities which have the service offering.

**Table 1.2**  
**Average Residential Rates for Local Service in Urban Areas, 1986-2002**  
**(As of October 15)**

	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
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	\$14.49	\$14.55
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	5.05	5.64
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	0.04	0.04
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	3.03	3.14
<b>Total Monthly Charge</b>	<b>\$17.70</b>	<b>\$18.18</b>	<b>\$18.11</b>	<b>\$19.05</b>	<b>\$19.24</b>	<b>\$19.77</b>	<b>\$19.72</b>	<b>\$19.95</b>	<b>\$19.81</b>	<b>\$20.01</b>	<b>\$19.95</b>	<b>\$19.88</b>	<b>\$19.76</b>	<b>\$19.93</b>	<b>\$20.78</b>	<b>\$22.62</b>	<b>\$23.38</b>
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	40.02	39.57
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	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	2.81	2.70
<b>Total Connection Charge</b>	<b>\$49.25</b>	<b>\$47.55</b>	<b>\$46.60</b>	<b>\$47.26</b>	<b>\$47.15</b>	<b>\$45.57</b>	<b>\$45.01</b>	<b>\$44.92</b>	<b>\$44.46</b>	<b>\$43.58</b>	<b>\$43.70</b>	<b>\$43.67</b>	<b>\$43.74</b>	<b>\$43.95</b>	<b>\$44.10</b>	<b>\$42.95</b>	<b>\$42.39</b>
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	5.85
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	3.62	3.61

NA - Not available.

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

**Table 1.3**  
**Residential Telephone Rates in the Sample Cities**  
**(As of October 15, 2002)**

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	\$26.01	\$19.07	\$0.05	\$40.00	\$4.75
Alaska	Anchorage	Anchorage	20.40			43.40	2.00
Arizona	Tucson	Qwest	22.24	16.66	0.20	38.95	4.75
Arkansas	Pine Bluff	SBC	25.41	17.77	0.07	44.16	3.95
Arkansas	West Memphis	SBC	31.91	17.00	0.07	44.69	3.95
California	Anaheim	SBC	15.79	10.71	0.06	32.44	2.99
California	Bakersfield	SBC	15.79	10.71	0.06	32.44	2.99
California	Fresno	SBC	15.65	10.57	0.06	32.44	1.99
California	Long Beach	Verizon	26.11	18.12	0.08	45.67	0.95
California	Los Angeles	SBC	17.37	11.78	0.06	35.74	2.99
California	Oakland	SBC	16.98	11.51	0.06	32.44	2.99
California	Salinas	SBC	16.74	11.35	0.06	32.44	2.99
California	San Bernadino	Verizon	26.35	18.28	0.08	45.67	0.95
California	San Diego	SBC	15.79	10.71	0.06	32.44	2.99
California	San Francisco	SBC	15.79	10.71	0.06	32.44	2.99
California	San Jose	SBC	16.58	11.24	0.06	34.09	2.99
Colorado	Boulder	Qwest	24.33	18.35	0.11	38.43	4.75
Colorado	Colorado Springs	Qwest	23.51	17.74	0.11	37.17	4.75
Colorado	Denver	Qwest	24.25	18.29	0.11	38.33	4.75
Connecticut	Ansonia	SNET	21.28	15.40	0.18	58.30	3.00
Connecticut	Norwalk	SNET	20.18	15.40	0.18	58.30	3.00
District of Columbia	Washington	Verizon	21.08	13.40	0.05	21.00	3.45
Florida	Miami	BellSouth	20.24	18.82	0.15	43.92	4.75
Florida	Tampa	Verizon	22.45	16.51	0.10	59.13	3.95
Florida	West Palm Beach	BellSouth	19.41	16.68	0.10	44.12	4.75
Georgia	Albany	BellSouth	25.33	17.82	0.12	42.50	4.75
Georgia	Atlanta	BellSouth	28.37	19.38	0.12	42.50	4.75
Hawaii	Honolulu	Verizon	24.56			50.72	3.95
Illinois	Chicago	SBC	21.82	10.38	0.05	50.67	3.95
Illinois	Decatur	SBC	21.15	17.16	0.06	50.28	3.95
Illinois	Rock Island	SBC	20.97	16.97	0.06	50.28	3.95
Indiana	Indianapolis	SBC	20.36	14.92	0.21	47.00	3.49
Indiana	Terre Haute	Verizon	24.80			60.06	3.95
Iowa	Fort Dodge	Frontier	18.81			13.57	3.95
Kentucky	Louisville	BellSouth	28.22	23.50	0.06	44.52	4.75
Louisiana	Baton Rouge	BellSouth	23.18	16.34	0.06	44.28	4.75
Louisiana	New Orleans	BellSouth	21.74	15.23	0.06	42.23	4.75
Maine	Portland	Verizon	26.09			46.99	3.45
Maryland	Baltimore	Verizon	27.34	19.42	0.08	48.00	3.45
Massachusetts	Boston	Verizon	25.71	18.21	0.09	14.18	3.45
Massachusetts	Hyannis	Verizon	25.71	18.21	0.09	14.18	3.45
Massachusetts	Springfield	Verizon	25.71	18.21	0.09	14.18	3.45
Michigan	Detroit	SBC	27.59	23.56	0.07	46.62	3.95
Michigan	Grand Rapids	SBC	24.97	22.15	0.07	44.52	3.95
Michigan	Saginaw	SBC	28.16	25.36	0.07	44.52	3.95
Minnesota	Detroit Lakes	Qwest	21.76	16.02	0.09	19.54	4.75
Minnesota	Minneapolis	Qwest	22.74	17.17	0.09	19.63	4.75
Mississippi	Pascagoula	BellSouth	28.16	19.40	0.06	49.22	4.75
Missouri	Kansas City	SBC	21.00	14.89	0.08	41.51	3.95
Missouri	Mexico	SBC	20.41	14.91	0.08	41.18	3.95
Missouri	St. Louis	SBC	21.13	14.98	0.08	42.61	3.95
Montana	Butte	Qwest	25.39	17.73	0.05	26.00	4.75
Nebraska	Grand Island	Qwest	26.79	19.00	0.10	37.44	4.75
New Jersey	Phillipsburg	Verizon	16.41	12.53	0.10	44.89	3.45

**Table 1.3**  
**Residential Telephone Rates in the Sample Cities - Continued**  
**(As of October 15, 2002)**

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	21.09	13.03	0.15	31.99	4.75
New York	Binghamton	Verizon	29.54	18.03	0.11	61.53	2.35
New York	Buffalo	Verizon	33.55	18.03	0.11	62.57	2.35
New York	Massena	Verizon	26.07	17.87	0.11	61.18	2.35
New York	New York City	Verizon	29.60	18.08	0.11	62.47	2.35
New York	Ogdensburg	Verizon	26.78	18.36	0.11	62.83	2.35
New York	Rochester	Frontier	19.57	11.34	0.08	33.32	
North Carolina	Raleigh	BellSouth	20.40			45.32	4.75
North Carolina	Rockingham	BellSouth	20.30			45.32	4.75
Ohio	Canton	SBC	20.75	15.25	0.08	36.50	3.95
Ohio	Cincinnati	Broadwing	24.21	15.81	0.15	25.70	4.00
Ohio	Cleveland	SBC	20.75	15.25	0.08	36.50	3.95
Ohio	Columbus	SBC	20.75	15.25	0.08	36.50	3.95
Ohio	Toledo	SBC	20.75	15.25	0.08	36.50	3.95
Oregon	Corvallis	Qwest	22.14	14.20	0.15	17.90	4.75
Oregon	Portland	Qwest	23.75	15.27	0.15	17.90	4.75
Pennsylvania	Allentown	Verizon	20.62	13.57	0.07	40.00	3.45
Pennsylvania	Ellwood City	Verizon	21.03	13.98	0.07	40.00	3.45
Pennsylvania	Johnstown	Verizon	22.07	14.37	0.15	55.86	3.95
Pennsylvania	New Castle	Verizon	19.33	13.98	0.07	40.00	3.45
Pennsylvania	Philadelphia	Verizon	21.70	12.59	0.07	40.00	3.45
Pennsylvania	Pittsburgh	Verizon	21.70	12.59	0.07	40.00	3.45
Pennsylvania	Scranton	Verizon	20.62	13.57	0.07	40.00	3.45
Rhode Island	Providence	Verizon	26.73	14.50	0.19	36.20	3.45
South Carolina	Beaufort	Sprint	22.28	14.68	0.12	32.30	4.00
Tennessee	Memphis	BellSouth	22.98	15.14	0.10	47.35	4.75
Tennessee	Nashville	BellSouth	22.17	14.74	0.10	45.03	4.75
Texas	Brownsville	SBC	17.36	12.46	0.08	44.06	3.95
Texas	Corpus Christi	SBC	19.59	14.54	0.08	43.91	3.95
Texas	Dallas	SBC	20.56	14.76	0.08	44.06	3.95
Texas	Fort Worth	SBC	18.53	13.07	0.08	44.06	3.95
Texas	Houston	SBC	21.45	15.32	0.08	44.06	3.95
Texas	San Antonio	SBC	19.56	14.12	0.08	43.91	3.95
Utah	Logan	Qwest	20.65	18.13	0.01	27.41	4.75
Virginia	Richmond	Verizon	30.93	24.09	0.10	38.50	1.25
Virginia	Smithfield	Verizon	29.09	20.40	0.16	40.00	2.50
Washington	Everett	Verizon	23.54	16.86	0.02	46.67	3.95
Washington	Seattle	Qwest	20.35	16.69	0.07	32.98	4.75
West Virginia	Huntington	Verizon	28.61	13.69	0.16	42.00	3.45
Wisconsin	Milwaukee	SBC	35.19	13.49	0.05	58.08	
Wisconsin	Racine	SBC	35.04	13.45	0.05	57.81	



**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	2002
Alabama	Huntsville	\$25.14	\$25.57	\$25.20	\$24.60	\$24.60	\$23.06	\$22.67	\$22.67	\$22.67	\$22.67	\$23.61	\$24.85	\$26.01
Alaska	Anchorage	10.56	10.56	14.45	16.20	14.44	14.47	14.47	14.46	14.48	14.48	14.34	15.42	20.40
Arizona	Tuscon	16.25	18.20	18.23	18.23	18.23	19.18	19.13	19.42	19.42	19.43	20.10	20.78	22.24
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	25.09	25.41
Arkansas	West Memphis	27.24	29.28		29.00	29.55	28.57	28.65	28.78	20.79	28.75	29.72	31.58	31.91
California	Anaheim	12.50	12.30	12.47	12.18	12.18	15.59	15.69	15.57	15.57	15.42	15.34	15.71	15.79
California	Bakersfield	12.50	12.30	12.23	12.18	12.18	15.59	15.69	15.57	15.57	15.42	15.34	15.71	15.79
California	Fresno	12.50	12.30	12.23	12.18	12.18	15.59	15.69	16.67	17.13	15.42	15.34	15.71	15.65
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	25.05	26.11
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	17.28	17.37
California	Oakland	13.19	13.09	13.05	13.09	13.09	16.72	16.82	15.57	16.01	16.23	16.49	16.89	16.98
California	Salinas	13.13	12.91	12.83	12.79	12.91	16.49	16.59	15.57	16.01	16.02	16.26	16.65	16.74
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	25.05	26.35
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	15.71	15.79
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	15.71	15.79
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	16.49	16.58
Colorado	Boulder	18.67	20.59	20.87	20.99	21.26	21.51	21.55	21.36	21.39	22.07	23.04	23.07	24.33
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	22.33	23.51
Colorado	Denver	18.95	20.80	20.87	20.80	21.12	21.10	21.14	21.11	21.40	21.91	22.85	22.98	24.25
Connecticut	Ansonia	14.33	16.68	14.66	17.22	17.60	18.70	18.70	18.70	18.64	19.41	20.67	22.02	21.28
Connecticut	Norwalk	15.44	18.06	16.04	16.13	16.51	17.60	17.60	17.60	17.55	18.32	19.58	20.93	20.18
District of Columbia	Washington	21.91	22.16	21.88	21.70	21.67	20.13	21.05	19.23	20.10	19.94	20.12	21.03	21.08
Florida	Miami	17.49	17.96	18.05	18.07	16.92	16.84	16.86	16.86	16.85	16.83	17.76	18.97	20.24
Florida	Tampa	17.79	17.95	17.99	17.45	17.45	17.65	19.09	19.19	19.23	19.23	20.27	21.04	22.45
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	18.15	19.41
Georgia	Albany	20.30	20.70	20.03	20.60	20.63	20.63	21.29	21.29	21.34	21.88	22.98	24.22	25.33
Georgia	Atlanta	23.44	24.48	24.50	24.50	24.53	24.80	24.98	24.98	24.92	24.92	26.04	27.25	28.37
Hawaii	Honolulu	19.21	19.29	19.29	19.35	20.60	21.35	22.52	22.40	22.40	22.40	23.28	23.28	24.56
Illinois	Chicago	18.11	18.17	18.00	18.21	18.20	17.31	17.63	17.18	17.18	14.52	15.52	21.64	21.82
Illinois	Decatur	19.09	20.29	21.29	21.56	21.54	20.19	20.18	20.18	20.18	22.26	23.26	21.08	21.15
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	20.79	20.97
Indiana	Indianapolis	22.42	22.47	21.53	21.87	20.44	19.81	18.82	18.82	18.82	19.05	20.25	20.40	20.36
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	23.63	24.80
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	17.62	18.81
Kentucky	Louisville	23.33	24.22	24.17	24.17	24.17	23.66	23.66	24.63	24.63	24.70	26.41	27.11	28.22
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	23.17	23.18
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	20.67	21.74
Maine	Portland	18.07	18.24	18.24	18.24	18.27	17.99	18.19	19.12	19.70	22.53	23.34	24.72	26.09
Maryland	Baltimore	24.80	25.27	26.05	24.98	24.98	24.98	24.98	24.98	24.67	24.67	25.73	26.47	27.34
Massachusetts	Boston	15.38	18.97	20.18	21.72	23.07	23.07	23.07	23.07	23.07	23.07	23.46	24.53	25.71
Massachusetts	Hyannis	13.65	17.42	18.63	20.43	23.07	23.07	23.07	23.07	23.07	23.07	23.46	24.53	25.71
Massachusetts	Springfield	14.79	18.44	19.65	21.72	23.07	23.07	23.07	23.07	23.07	23.07	23.46	24.53	25.71
Michigan	Detroit	19.07	19.04	19.21	19.25	19.55	19.50	19.42	19.42	19.76	22.50	25.99	27.12	27.59
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	24.54	24.97
Michigan	Saginaw	16.34	16.31	16.48	18.75	16.93	18.96	20.05	20.05	20.11	19.85	22.99	27.71	28.16
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	21.50	21.76
Minnesota	Minneapolis	21.09	21.19	21.19	21.64	21.66	21.73	21.73	21.45	21.46	20.61	21.54	22.48	22.74
Mississippi	Pascagoula	25.91	26.34	26.15	26.03	26.42	26.42	26.03	26.03	25.26	24.81	25.80	27.05	28.16
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	20.68	21.00
Missouri	Mexico	17.00	17.07	17.07	17.14	15.81	17.19	17.19	17.26	17.26	17.26	18.42	20.10	20.41
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	20.87	21.13
Montana	Butte	19.25	19.25	19.25	18.22	18.22	18.22	18.22	19.26	19.69	22.70	23.16	24.23	25.39
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	26.25	26.79
New Jersey	Phillipsburg	13.43	13.16	13.04	13.04	13.04	13.04	13.04	13.04	13.05	13.05	13.21	15.31	16.41

**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	2002
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	18.14	21.09
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	25.01	29.54
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	32.41	33.55
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	24.94	26.07
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	28.45	29.60
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	25.62	26.78
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	19.55	19.57
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	19.33	20.40
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	19.20	20.30
Ohio	Canton	21.29	21.29	21.29	21.29	21.29	20.00	19.59	18.87	18.72	18.56	19.28	20.31	20.75
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	24.21
Ohio	Cleveland	21.29	21.29	21.29	21.29	21.29	20.00	19.44	18.87	18.72	18.56	19.28	20.31	20.75
Ohio	Columbus	21.29	21.29	21.29	21.29	21.29	20.00	19.85	18.87	18.72	18.56	19.28	20.31	20.75
Ohio	Toledo	21.29	21.29	21.29	21.29	21.29	20.00	19.85	18.87	18.72	18.56	19.28	20.31	20.75
Oregon	Corvallis	19.31	19.21	19.08	19.02	18.21	18.73	19.65	19.66	19.88	19.97	21.05	21.62	22.14
Oregon	Portland	21.65	21.44	21.22	21.42	18.36	22.07	23.02	21.22	21.19	21.19	22.07	23.64	23.75
Pennsylvania	Allentown	16.10	16.10	16.10	17.70	17.70	17.59	17.63	17.47	17.94	17.48	18.35	19.59	20.62
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	20.00	21.03
Pennsylvania	Johnstown	18.67	19.25	18.98	20.11	21.95	21.78	20.31	19.48	19.48	21.94	22.86	20.97	22.07
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	18.30	19.33
Pennsylvania	Philadelphia	17.44	17.44	17.44	20.09	20.09	19.98	18.72	18.56	18.56	18.56	19.41	20.67	21.70
Pennsylvania	Pittsburgh	17.44	17.44	17.44	18.78	18.78	18.67	18.72	17.48	17.48	18.56	19.41	20.67	21.70
Pennsylvania	Scranton	16.10	16.10	16.10	16.41	16.41	17.59	17.63	18.56	18.56	17.48	18.32	19.59	20.62
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	25.52	26.73
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	22.26	22.28
Tennessee	Memphis	20.29	20.31	20.25	20.25	20.25	20.25	20.33	20.33	20.33	19.95	20.33	21.76	22.98
Tennessee	Nashville	19.03	19.21	19.50	19.41	19.41	19.41	19.41	19.41	19.88	19.51	19.90	20.99	22.17
Texas	Brownsville	15.71	15.42	15.27	15.27	14.33	15.33	15.31	14.91	14.78	15.33	17.16	18.33	17.36
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	17.32	19.59
Texas	Dallas	17.77	18.45	18.45	18.97	17.99	18.00	17.92	17.47	18.07	17.97	19.45	20.64	20.56
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	19.66	18.53
Texas	Houston	18.59	19.40	19.37	19.42	18.39	18.44	18.28	17.98	18.31	18.31	18.87	19.55	21.45
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	18.13	19.56
Utah	Logan	15.82	15.63	15.63	15.66	15.62	15.76	15.76	15.70	17.73	17.99	19.38	19.44	20.65
Virginia	Richmond	23.70	23.98	23.96	24.60	24.60	23.90	23.78	23.78	23.78	23.78	28.67	29.60	30.93
Virginia	Smithfield	17.14	16.90	17.01	17.01	17.01	17.01	16.90	16.90	16.90	16.90	17.87	27.82	29.09
Washington	Everett	21.96	19.86	20.54	18.97	18.97	18.97	18.97	18.97	18.97	19.53	20.47	22.27	23.54
Washington	Seattle	16.13	16.06	16.21	17.00	17.00	16.22	15.93	15.97	15.61	18.16	19.03	19.23	20.35
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	27.47	28.61
Wisconsin	Milwaukee	23.11	16.66	16.66	16.56	15.91	15.91	15.92	15.92	15.92	16.76	17.46	34.75	35.19
Wisconsin	Racine	20.97	16.63	16.63	16.61	15.96	15.87	15.88	15.88	15.88	16.40	17.09	34.61	35.04

\* Beginning in 2001, all rates reflect flat-rate service. Rates are for flat-rate service where available and measured/message service with 100 local calls elsewhere. All 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	2002
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	\$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	43.40
Arizona	Tucson	59.42	51.64	51.74	51.74	51.74	51.74	48.92	48.92	48.92	49.85	46.59	38.43	38.95
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	44.16	44.16
Arkansas	West Memphis	52.53	53.76		53.25	44.24	44.54	44.67	44.71	44.57	44.69	39.70	44.69	44.69
California	Anaheim	36.20	34.80	34.50	34.32	34.32	35.19	35.47	35.61	35.93	34.29	32.23	32.47	32.44
California	Bakersfield	36.20	34.80	34.50	34.32	34.32	35.19	35.47	34.92	35.93	34.29	32.23	32.47	32.44
California	Fresno	36.20	34.80	34.50	34.32	34.32	35.19	35.47	34.92	35.93	34.29	32.23	32.47	32.44
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	45.67
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	35.77	35.74
California	Oakland	36.20	34.80	34.50	34.32	34.32	35.19	35.47	34.92	35.93	33.70	32.23	32.47	32.44
California	Salinas	36.20	34.80	34.50	34.32	34.32	35.19	35.47	34.92	35.93	33.70	32.23	32.47	32.44
California	San Bernadino	49.00	54.79	55.25	55.25	52.89	45.73	45.61	45.61	45.61	45.61	45.61	45.51	45.67
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	32.47	32.44
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	32.47	32.44
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	34.12	34.09
Colorado	Boulder	65.53	37.33	37.33	37.33	37.42	37.45	37.54	37.54	37.54	38.78	36.09	38.59	38.43
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	37.38	37.17
Colorado	Denver	65.93	37.56	37.56	37.56	37.56	37.56	37.56	37.56	37.56	38.72	36.09	38.54	38.33
Connecticut	Ansonia	35.73	37.87	37.87	47.70	47.70	47.70	47.70	47.70	47.70	47.70	55.00	58.30	58.30
Connecticut	Norwalk	35.73	37.87	37.87	47.70	47.70	47.70	47.70	47.70	47.70	47.70	55.00	58.30	58.30
District of Columbia	Washington	32.68	33.12	30.76	30.76	30.76	30.76	30.76	30.76	30.76	30.76	30.76	21.00	21.00
Florida	Miami	44.55	44.50	44.50	44.50	40.00	40.00	40.00	40.00	40.00	40.00	40.00	43.32	43.92
Florida	Tampa	60.97	60.97	62.04	62.98	62.98	62.98	59.13	59.13	59.13	59.13	55.00	59.13	59.13
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	43.28	44.12
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	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	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	50.72	50.72
Illinois	Chicago	60.95	60.95	60.56	60.56	60.56	60.56	60.56	60.56	60.56	63.03	55.00	59.76	50.67
Illinois	Decatur	60.73	60.73	60.64	60.64	60.64	60.64	60.64	60.64	60.64	62.56	55.00	59.31	50.28
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	59.31	50.28
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	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	60.06	60.06	60.06
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	13.57	13.57
Kentucky	Louisville	34.55	34.50	34.50	34.50	34.50	34.50	42.00	42.00	42.00	42.00	42.00	44.52	44.52
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	44.28	44.28
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	42.23	42.23
Maine	Portland	46.99	47.44	47.44	47.44	47.44	47.44	47.44	47.44	47.21	47.21	44.75	46.99	46.99
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	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	14.18	14.18
Massachusetts	Hyannis	33.36	36.53	38.92	38.92	38.92	38.92	38.92	38.92	38.92	38.92	37.07	14.18	14.18
Massachusetts	Springfield	33.36	36.53	38.92	38.92	38.92	38.92	38.92	38.92	38.92	38.92	37.07	14.18	14.18
Michigan	Detroit	45.78	43.68	43.68	43.68	44.52	44.52	44.52	44.52	44.52	46.62	42.00	46.62	46.62
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	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	42.00	44.52	44.52
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	19.54	19.54
Minnesota	Minneapolis	32.00	32.00	18.75	18.75	18.75	18.75	20.06	19.63	19.63	19.63	18.35	19.63	19.63
Mississippi	Pascagoula	35.53	35.85	35.85	49.22	49.22	49.22	49.22	49.22	49.22	49.22	46.00	49.22	49.22
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	41.69	41.51
Missouri	Mexico	50.84	51.98	51.98	51.98	51.98	41.70	41.70	41.88	41.88	41.88	36.50	41.49	41.18
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	42.93	42.61
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	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	37.27	37.44
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	44.89	44.89

**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	2002
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	31.99	31.99
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	61.53	61.53
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	62.57	62.57
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	61.18	61.18
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	62.47	62.47
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	62.83	62.83
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	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	44.03	45.32
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	44.03	45.32
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	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	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	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	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	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	12.72	17.90
Oregon	Portland	12.42	12.00	12.00	12.00	12.00	12.00	12.36	12.36	12.36	12.36	12.36	12.72	17.90
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	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	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	55.86	55.86
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	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	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	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	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	36.20	36.20
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	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	47.28	47.35
Tennessee	Nashville	44.78	45.13	45.13	45.13	45.13	45.13	45.13	45.13	45.13	44.92	41.50	44.92	45.03
Texas	Brownsville	71.04	47.10	46.66	46.66	44.06	47.12	47.08	47.07	46.65	47.39	38.35	47.39	44.06
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	43.91	43.91
Texas	Dallas	73.07	51.12	50.95	51.15	48.38	48.38	48.18	46.95	48.58	48.31	38.35	48.31	44.06
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	48.36	44.06
Texas	Houston	72.78	51.17	51.10	51.22	48.37	48.40	47.98	47.20	44.06	44.06	38.35	44.06	44.06
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	43.85	43.91
Utah	Logan	31.27	19.92	19.92	19.92	19.90	19.90	26.53	26.50	26.50	26.83	25.17	27.41	27.41
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	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	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	46.67	46.67
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	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	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	58.08	58.08
Wisconsin	Racine	36.57	34.70	34.70	34.70	34.70	34.70	34.74	34.74	35.52	47.30	55.00	57.81	57.81

**Table 1.6**  
**Comparison of Standard Local Telephone Rates to Lifeline and LinkUp Rates**  
**(As of October 15, 2002)**

	<b>Standard Rate in Cities with Subsidy Plan</b>	<b>Subsidy-Plan Rate</b>	<b>Benefit</b>
	(a)	(b)	(a) - (b)
Representative Monthly Charge	\$14.55	\$8.05	
Federal and State Subscriber Line Charges	5.64	0.16	
Taxes, 911 and Other Charges	3.14	1.91	
Total Monthly Charge <sup>1</sup>	\$23.33	\$10.12	\$13.21
Basic Connection Charge	\$39.57	\$11.92	
Taxes	2.82	0.75	
Total Connection Charge <sup>1</sup>	\$42.39	\$12.67	\$29.73

<sup>1</sup> 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, 2002)**

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	\$26.01	\$11.48	\$40.00	\$20.00
Alaska	Anchorage	Anchorage	20.40	2.40	43.40	0.00
Arizona	Tucson	Qwest	22.24	9.38	38.95	19.48
Arkansas	Pine Bluff	SBC	25.41	12.67	44.16	22.08
Arkansas	West Memphis	SBC	31.91	19.01	44.69	22.34
California	Anaheim	SBC	15.79	5.44	32.44	9.34
California	Bakersfield	SBC	15.79	5.44	32.44	9.83
California	Fresno	SBC	15.65	5.44	32.44	9.34
California	Long Beach	Verizon	26.11	5.89	45.67	9.93
California	Los Angeles	SBC	17.37	5.99	35.74	10.83
California	Oakland	SBC	16.98	5.85	32.44	9.83
California	Salinas	SBC	16.74	5.77	32.44	9.83
California	San Bernardino	Verizon	26.35	5.94	45.67	9.93
California	San Diego	SBC	15.79	5.44	32.44	9.83
California	San Francisco	SBC	15.79	5.44	32.44	9.83
California	San Jose	SBC	16.58	6.26	34.09	10.33
Colorado	Boulder	Qwest	24.33	7.98	38.43	19.22
Colorado	Colorado Springs	Qwest	23.51	7.46	37.17	18.59
Colorado	Denver	Qwest	24.25	7.70	38.33	19.16
Connecticut	Ansonia	SBC	21.28	13.29	58.30	29.15
Connecticut	Norwalk	SBC	20.18	12.47	58.30	29.15
District of Columbia	Washington	Verizon	21.08	5.56	21.00	10.50
Florida	Miami	BellSouth	20.24	5.67	43.92	21.97
Florida	Tampa	Verizon	22.45	6.67	59.13	29.56
Florida	West Palm Beach	BellSouth	19.41	6.09	44.12	22.11
Georgia	Albany	BellSouth	25.33	11.01	42.50	21.25
Georgia	Atlanta	BellSouth	28.37	12.54	42.50	21.25
Hawaii	Honolulu	Verizon	24.56	10.10	50.72	25.36
Illinois	Chicago	SBC	21.82	11.13	50.67	14.17
Illinois	Decatur	SBC	21.15	10.65	50.28	14.07
Illinois	Rock Island	SBC	20.97	10.75	50.28	14.07
Indiana	Indianapolis	SBC	20.36	8.75	47.00	0.00
Indiana	Terre Haute	Verizon	24.80	15.95	60.06	30.03
Iowa	Fort Dodge	Frontier	18.81	9.32	13.57	6.78
Kentucky	Louisville	BellSouth	28.22	14.00	44.52	22.26
Louisiana	Baton Rouge	BellSouth	23.18	14.17	44.28	22.14
Louisiana	New Orleans	BellSouth	21.74	13.62	42.23	21.12
Maine	Portland	Verizon	26.09	11.33	46.99	10.50
Maryland	Baltimore	Verizon	27.34	7.45	48.00	0.00
Massachusetts	Boston	Verizon	25.71	7.95	14.18	0.00
Massachusetts	Hyannis	Verizon	25.71	7.95	14.18	0.00
Massachusetts	Springfield	Verizon	25.71	8.47	14.18	0.00
Michigan	Detroit	SBC	27.59	15.50	46.62	0.00
Michigan	Grand Rapids	SBC	24.97	17.28	44.52	0.00
Michigan	Saginaw	SBC	28.16	14.42	44.52	0.00
Minnesota	Detroit Lakes	Qwest	21.76	6.25	19.54	9.78
Minnesota	Minneapolis	Qwest	22.74	7.90	19.63	9.82
Mississippi	Pascagoula	BellSouth	28.16	12.73	49.22	24.61
Missouri	Kansas City	SBC	21.00	9.94	41.51	20.76
Missouri	Mexico	SBC	20.41	8.05	41.18	20.60
Missouri	St. Louis	SBC	21.13	10.61	42.61	21.31
Montana	Butte	Qwest	25.39	6.97	26.00	13.00
Nebraska	Grand Island	Qwest	26.79	12.66	37.44	18.72
New Jersey	Phillipsburg	Verizon	16.41	4.66	44.89	22.45

**Table 1.7**  
**Lifeline and LinkUp Rates in the Sample Cities - Continued**  
**(As of October 15, 2002)**

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
New Mexico	Alamogordo	Qwest	21.09	4.94	31.99	8.00
New York	Binghamton	Verizon	29.54	15.96	61.53	5.59
New York	Buffalo	Verizon	33.55	20.36	62.57	5.69
New York	Massena	Verizon	26.07	12.63	61.18	5.56
New York	New York City	Verizon	29.60	16.21	62.47	5.68
New York	Ogdensburg	Verizon	26.78	12.22	62.83	5.71
New York	Rochester	Frontier - Rochester	19.57	8.84	33.32	10.00
North Carolina	Raleigh	BellSouth	20.40	7.28	45.32	22.66
North Carolina	Rockingham	BellSouth	20.30	5.42	45.32	22.66
Ohio	Canton	Ameritech	20.75	9.84	36.50	0.00
Ohio	Cincinnati	Cincinnati Bell	24.21	11.65	25.70	0.00
Ohio	Cleveland	SBC	20.75	9.84	36.50	0.00
Ohio	Columbus	SBC	20.75	9.84	36.50	0.00
Ohio	Toledo	Ameritech	20.75	10.49	36.50	0.00
Oregon	Corvallis	Qwest	22.14	8.52	17.90	11.39
Oregon	Portland	Qwest	23.75	9.08	17.90	0.00
Pennsylvania	Allentown	Verizon	20.62	14.44	40.00	20.00
Pennsylvania	Ellwood City	Verizon	21.03	14.85	40.00	20.00
Pennsylvania	Johnstown	Verizon	22.07	9.59	55.86	27.93
Pennsylvania	New Castle	Verizon	19.33	12.90	40.00	20.00
Pennsylvania	Philadelphia	Verizon	21.70	15.52	40.00	20.00
Pennsylvania	Pittsburgh	Verizon	21.70	15.78	40.00	20.00
Pennsylvania	Scranton	Verizon	20.62	13.64	40.00	20.00
Rhode Island	Providence	Verizon	26.73	12.03	36.20	18.10
South Carolina	Beaufort	Sprint	22.28	8.26	32.30	16.15
Tennessee	Memphis	BellSouth	22.98	7.33	47.35	23.67
Tennessee	Nashville	BellSouth	22.17	6.86	45.03	22.51
Texas	Brownsville	SBC	17.36	3.92	44.06	20.76
Texas	Corpus Christi	SBC	19.59	5.86	43.91	20.69
Texas	Dallas	SBC	20.56	6.25	44.06	20.76
Texas	Fort Worth	SBC	18.53	4.32	44.06	20.76
Texas	Houston	SBC	21.45	7.28	44.06	20.76
Texas	San Antonio	SBC	19.56	5.43	43.91	20.69
Utah	Logan	Qwest	20.65	8.96	27.41	13.71
Virginia	Richmond	Verizon	30.93	11.05	38.50	19.25
Virginia	Smithfield	Verizon	29.09	6.91	40.00	20.00
Washington	Everett	Verizon	23.54	5.43	46.67	23.34
Washington	Seattle	Qwest	20.35	6.21	32.98	0.00
West Virginia	Huntington	Verizon	28.61	18.49	42.00	0.00
Wisconsin	Milwaukee	SBC	35.19	25.90	58.08	0.00
Wisconsin	Racine	SBC	35.04	25.60	57.81	0.00

**Table 1.8**  
**Average Local Rates for Businesses with a Single Line in Urban Areas**  
**(As of October 15, 2002)**

	Average Rate	Median Rate <sup>2</sup>
Monthly Charge for Flat-Rate Service <sup>1</sup>	\$33.34	\$33.85
Federal and State Subscriber Line Charges	5.73	6.00
Additional Monthly Charge for Touch-Tone Service	0.30	0.00
Taxes, 911, and Other Charges	6.88	6.03
<b>Total Monthly Charge for Flat-Rate Service</b>	<b>\$46.25</b>	<b>\$45.88</b>
Number of Sample Cities with Flat-Rate Service	54	-
Monthly Charge for Measured/Message Service <sup>1</sup>	\$17.44	\$17.59
Federal and State Subscriber Line Charges	5.33	6.00
Additional Monthly Charge for Touch-Tone Service	0.14	0.00
Taxes, 911, and Other Charges	4.11	3.75
<b>Total Monthly Charge for Measured/Message Service</b>	<b>\$27.01</b>	<b>\$27.34</b>
Cost of a 5-Minute Daytime Call	0.09	0.09
Number of Sample Cities with Message/Measured Service	86	-
Basic Connection Charge	\$67.25	\$62.85
Additional Connection Charge for Touch-Tone Service	0.12	0.00
Taxes	4.97	4.50
<b>Total Connection Charge</b>	<b>\$72.35</b>	<b>\$67.35</b>
Additional Charge if Drop Line and Connection Block Needed	6.63	0.00
Lowest-Cost Inside Wiring Maintenance Plan	\$4.95	\$5.00

<sup>1</sup> Rate reflects universal service fund pass-through charges.

<sup>2</sup> Where a rate exists for fewer than 95 cities the median represents the midpoint rate for those cities which have the service offering.



**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	2002
Monthly Representative Service Charge <sup>d</sup>	\$31.06	\$30.97	\$32.29	\$32.45	\$32.70	\$32.25	\$32.48	\$32.58	\$32.76	\$32.44	\$32.41	\$32.18	\$31.88	\$32.12
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	4.91	5.38
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	0.14
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	5.45	5.95
<b>Total Monthly Charge</b>	<b>\$41.25</b>	<b>\$41.21</b>	<b>\$42.12</b>	<b>\$42.29</b>	<b>\$42.57</b>	<b>\$41.64</b>	<b>\$41.80</b>	<b>\$41.81</b>	<b>\$41.67</b>	<b>\$41.27</b>	<b>\$41.21</b>	<b>\$41.80</b>	<b>\$42.43</b>	<b>\$43.59</b>
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	\$32.02	\$33.34
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	4.77	5.73
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	0.39	0.30
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	5.98	6.88
<b>Total Monthly Charge for Flat-Rate Service</b>	<b>\$43.71</b>	<b>\$44.07</b>	<b>\$44.91</b>	<b>\$44.94</b>	<b>\$45.81</b>	<b>\$44.57</b>	<b>\$44.71</b>	<b>\$44.47</b>	<b>\$44.39</b>	<b>\$44.07</b>	<b>\$43.20</b>	<b>\$43.90</b>	<b>\$43.15</b>	<b>\$46.25</b>
Number of Sample Cities with Flat-Rate Service	59	56	54	54	54	53	53	53	53	54	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	\$17.16	\$17.44
200 Five-Minute, Business-Day, Same-Zone Call	16.11	16.19	16.70	17.23	17.57	17.38	17.15	17.10	17.18	17.15	17.24	17.63	17.56	17.24
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	4.90	5.33
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	0.14
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	5.76	6.26
<b>Total Monthly Charge for Measured/Message Service</b>	<b>\$42.72</b>	<b>\$42.83</b>	<b>\$43.44</b>	<b>\$43.82</b>	<b>\$44.26</b>	<b>\$43.72</b>	<b>\$43.75</b>	<b>\$43.84</b>	<b>\$43.57</b>	<b>\$43.35</b>	<b>\$43.35</b>	<b>\$44.45</b>	<b>\$45.57</b>	<b>\$46.40</b>
Number of Sample Cities with Measured/Message Service	83	83	84	84	84	87	87	86	85	85	85	85	85	86
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	\$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	\$67.04	\$67.25
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	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	4.69	4.97
<b>Total Connection Charge</b>	<b>\$76.81</b>	<b>\$77.40</b>	<b>\$78.20</b>	<b>\$78.07</b>	<b>\$76.83</b>	<b>\$74.93</b>	<b>\$72.31</b>	<b>\$72.85</b>	<b>\$73.29</b>	<b>\$70.09</b>	<b>\$72.55</b>	<b>\$72.29</b>	<b>\$71.86</b>	<b>\$72.35</b>
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	\$6.63
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	\$4.86	\$4.95

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

**Table 1.10**  
**Telephone Rates in the Sample Cities for a Business with a Single Line**  
**(As of October 15, 2002)**

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	\$48.94	\$44.86	\$0.06	\$69.00	\$5.00
Alaska	Anchorage	Anchorage	34.71			65.70	2.00
Arizona	Tucson	Qwest	44.31			55.65	5.75
Arkansas	Pine Bluff	SBC	44.69	29.39	0.07	93.43	6.00
Arkansas	West Memphis	SBC	57.43	27.61	0.07	94.55	6.00
California	Anaheim	SBC		14.89	0.06	66.05	2.75
California	Bakersfield	SBC		14.89	0.06	66.05	2.75
California	Fresno	SBC		15.48	0.06	66.05	2.75
California	Long Beach	Verizon		28.28	0.08	92.69	1.95
California	Los Angeles	SBC		16.38	0.06	72.77	2.75
California	Oakland	SBC		16.01	0.06	71.09	2.75
California	Salinas	SBC		16.50	0.06	66.05	2.75
California	San Bernadino	Verizon		28.54	0.08	91.42	1.95
California	San Diego	SBC		14.89	0.06	66.05	2.75
California	San Francisco	SBC		17.12	0.06	66.05	2.75
California	San Jose	SBC		15.64	0.06	66.05	2.75
Colorado	Boulder	Qwest	47.74	28.80	0.13	59.30	5.75
Colorado	Colorado Springs	Qwest	44.52	26.88	0.13	57.35	5.75
Colorado	Denver	Qwest	47.48	28.61	0.13	59.13	5.75
Connecticut	Ansonia	SBC	46.95	30.06	0.18	79.50	4.25
Connecticut	Norwalk	SBC	44.03	30.08	0.18	79.50	4.25
District of Columbia	Washington	Verizon		21.32	0.08	83.25	3.50
Florida	Miami	BellSouth	43.99	34.09	0.12	64.23	5.00
Florida	Tampa	Verizon	43.77			74.07	4.25
Florida	West Palm Beach	BellSouth	41.75	36.25	0.12	64.17	5.00
Georgia	Albany	BellSouth	45.44	38.65	0.12	58.25	5.00
Georgia	Atlanta	BellSouth	63.02	52.74	0.12	58.25	5.00
Hawaii	Honolulu	Verizon	53.12			49.61	4.25
Illinois	Chicago	SBC		13.31	0.10	58.42	4.95
Illinois	Decatur	SBC		20.53	0.10	57.98	4.95
Illinois	Rock Island	SBC		20.25	0.10	57.98	4.95
Indiana	Indianapolis	SBC	53.23	36.13	0.25	59.00	4.95
Indiana	Terre Haute	Verizon	40.20		0.00	68.78	4.25
Iowa	Fort Dodge	Frontier	30.76			21.57	3.95
Kentucky	Louisville	BellSouth	44.97	49.80	0.06	77.38	5.00
Louisiana	Baton Rouge	BellSouth	45.90	38.38	0.06	91.80	5.00
Louisiana	New Orleans	BellSouth	44.41	37.04	0.06	87.55	5.00
Maine	Portland	Verizon	48.16			58.80	3.95
Maryland	Baltimore	Verizon		23.91	0.09	87.00	3.50
Massachusetts	Boston	Verizon		22.33	0.10	97.67	3.95
Massachusetts	Hyannis	Verizon	49.97	22.33	0.10	97.67	3.95
Massachusetts	Springfield	Verizon		22.33	0.10	97.67	3.95
Michigan	Detroit	SBC		24.30	0.09	46.62	4.29
Michigan	Grand Rapids	SBC		22.90	0.09	44.52	4.29
Michigan	Saginaw	SBC		26.90	0.09	44.52	4.29
Minnesota	Detroit Lakes	Qwest	44.41	28.64	0.09	51.01	5.75
Minnesota	Minneapolis	Qwest	54.19	35.57	0.09	51.25	5.75
Mississippi	Pascagoula	BellSouth	50.20	42.81	0.06	71.69	5.00
Missouri	Kansas City	SBC	49.96	29.47	0.08	66.37	6.00
Missouri	Mexico	SBC	39.12	25.22	0.08	58.96	6.00
Missouri	St. Louis	SBC	50.27	29.65	0.08	68.13	6.00
Montana	Butte	Qwest	43.79	28.73	0.10	61.25	5.75
Nebraska	Grand Island	Qwest	38.20	28.54	0.09	51.05	5.75
New Jersey	Phillipsburg	Verizon		22.47	0.07	80.75	1.90

**Table 1.10**  
**Telephone Rates in the Sample Cities for a Business with a Single Line - Continued**  
**(As of October 15, 2002)**

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		24.95	0.15	57.53	5.75
New York	Binghamton	Verizon		29.27	0.09	87.00	3.50
New York	Buffalo	Verizon		29.79	0.10	97.67	3.95
New York	Massena	Verizon		29.15	0.10	97.67	3.95
New York	New York City	Verizon		29.74	0.10	97.67	3.95
New York	Ogdensburg	Verizon		29.90	0.09	46.62	4.29
New York	Rochester	Frontier		19.58	0.09	44.52	
North Carolina	Raleigh	BellSouth	42.38			68.90	5.00
North Carolina	Rockingham	BellSouth	41.15			68.90	5.00
Ohio	Canton	Ameritech		35.84	0.08	62.85	4.95
Ohio	Cincinnati	Cincinnati Bell	53.94	37.46	0.15	49.75	4.00
Ohio	Cleveland	SBC		31.20	0.08	62.85	4.95
Ohio	Columbus	SBC		31.20	0.08	62.85	4.95
Ohio	Toledo	SBC		33.26	0.08	62.85	4.95
Oregon	Corvallis	Qwest	38.93	27.40	0.15	33.64	5.75
Oregon	Portland	Qwest	39.96	28.66	0.15	33.64	5.75
Pennsylvania	Allentown	Verizon		25.30	0.07	79.50	1.90
Pennsylvania	Ellwood City	Verizon		28.03	0.07	79.50	1.90
Pennsylvania	Johnstown	Verizon	39.38	23.01	0.15	60.44	4.25
Pennsylvania	New Castle	Verizon		28.03	0.07	79.50	1.90
Pennsylvania	Philadelphia	Verizon		19.75	0.07	79.50	1.90
Pennsylvania	Pittsburgh	Verizon		22.51	0.07	79.50	1.90
Pennsylvania	Scranton	Verizon		25.30	0.07	79.50	1.90
Rhode Island	Providence	Verizon		28.78	0.20	47.73	4.25
South Carolina	Beaufort	Sprint	41.70	26.27	0.12	35.60	3.00
Tennessee	Memphis	BellSouth	58.60	44.21	0.10	66.74	5.00
Tennessee	Nashville	BellSouth	56.98	43.35	0.10	63.47	4.00
Texas	Brownsville	SBC	34.70	26.21	0.08	64.57	6.00
Texas	Corpus Christi	SBC	37.96	29.21	0.08	64.35	6.00
Texas	Dallas	SBC	43.40	33.65	0.08	64.57	6.00
Texas	Fort Worth	SBC	39.41	29.88	0.08	64.57	6.00
Texas	Houston	SBC	46.93	35.68	0.08	64.57	5.50
Texas	San Antonio	SBC	39.26	29.76	0.08	64.35	6.00
Utah	Logan	Qwest	31.81	26.78	0.08	53.30	5.75
Virginia	Richmond	Verizon	78.38	28.15	0.10	64.00	2.45
Virginia	Smithfield	Verizon	51.14	37.02	0.16	40.00	2.75
Washington	Everett	Verizon	42.94	29.00	0.02	70.67	4.25
Washington	Seattle	Qwest	40.63	30.74	0.07	55.29	5.75
West Virginia	Huntington	Verizon	59.92	31.55	0.16	79.00	3.00
Wisconsin	Milwaukee	SBC		23.20	0.09	68.27	4.29
Wisconsin	Racine	SBC		23.11	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	2002
Alabama	Huntsville	\$61.61	\$62.49	\$62.74	\$61.58	\$60.55	\$56.15	\$53.46	\$50.90	\$48.40	\$45.97	\$46.91	\$48.00	\$48.94
Alaska	Anchorage	21.99	21.99	29.16	33.33	31.04	31.05	31.05	31.08	31.12	31.11	31.11	34.95	34.71
Arizona	Tucson	33.90	40.65	40.72	40.72	40.72	41.73	41.71	42.00	42.00	42.01	42.68	43.65	44.31
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	44.37	44.69
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	57.10	57.43
California	Anaheim	27.81	28.88	29.24	29.10	29.10	30.43	30.65	30.25	30.28	28.34	27.20	27.66	27.74
California	Bakersfield	28.37	29.50	29.29	29.15	29.15	31.06	31.29	30.64	30.92	28.23	27.20	28.24	27.74
California	Fresno	29.11	30.33	30.11	29.97	29.97	31.06	31.29	31.10	30.92	28.11	27.78	28.24	28.32
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	44.97	45.91
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	30.42	30.52
California	Oakland	29.34	30.75	30.52	30.67	30.67	32.63	32.86	NA	32.45	29.58	29.24	29.73	29.82
California	Salinas	30.66	31.08	30.85	30.71	31.00	32.97	33.21	31.10	32.79	29.94	29.54	30.03	30.12
California	San Bernardino	31.42	37.41	37.86	37.86	36.41	43.35	43.25	43.29	43.25	43.25	44.20	44.97	46.34
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	27.66	27.74
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	29.73	30.93
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	29.04	29.13
Colorado	Boulder	43.91	46.15	46.46	46.94	46.88	47.16	47.15	47.03	46.94	45.52	46.25	46.42	47.74
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	43.40	44.52
Colorado	Denver	44.23	46.47	46.58	46.62	46.69	46.68	46.65	46.59	46.57	45.22	45.89	46.31	47.48
Connecticut	Ansonia	33.04	35.39	35.39	41.81	40.76	43.70	43.70	43.70	43.65	44.39	45.67	47.02	46.95
Connecticut	Norwalk	36.53	39.47	38.70	38.70	37.91	40.86	40.86	40.86	40.70	41.46	42.72	44.07	44.03
District of Columbia	Washington	34.60	34.73	33.88	35.32	35.32	33.37	39.17	37.84	34.85	35.81	36.34	37.22	39.92
Florida	Miami	40.60	37.65	41.44	41.88	40.65	40.65	40.67	40.13	37.40	40.64	41.63	42.21	43.99
Florida	Tampa	40.70	40.91	41.53	37.66	37.66	37.87	41.09	41.09	41.18	41.18	42.21	42.51	43.77
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	40.00	41.75
Georgia	Albany	42.67	41.87	39.14	39.70	39.74	39.74	41.00	41.00	41.15	41.70	42.98	44.08	45.44
Georgia	Atlanta	53.32	53.61	53.61	53.61	53.64	58.82	58.87	58.87	58.81	58.81	60.25	60.46	63.02
Hawaii	Honolulu	40.17	40.25	40.25	41.85	42.74	44.39	46.09	47.32	47.32	47.32	48.20	51.71	53.12
Illinois	Chicago	34.17	34.20	33.87	34.13	34.12	32.12	31.91	31.91	33.74	35.12	36.12	36.01	36.30
Illinois	Decatur	37.89	37.92	37.76	38.02	38.01	35.96	35.71	35.15	40.17	42.49	43.49	43.37	43.35
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	42.74	43.06
Indiana	Indianapolis	60.85	60.85	59.96	60.24	57.46	56.78	55.84	55.84	55.84	56.07	57.27	58.50	53.23
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	39.03	40.20
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	28.95	30.76
Kentucky	Louisville	58.75	61.01	60.96	60.96	60.96	61.01	55.87	56.84	45.27	45.33	48.75	47.93	44.97
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	44.47	45.90
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	43.28	44.41
Maine	Portland	40.13	40.52	40.52	40.52	40.54	38.63	38.82	39.75	41.33	43.06	43.78	46.78	48.16
Maryland	Baltimore	42.64	43.10	44.97	43.57	43.57	43.57	43.57	43.60	43.16	43.12	44.14	44.18	45.05
Massachusetts	Boston	36.90	43.41	54.10	49.77	43.22	42.78	42.78	42.78	42.78	42.78	42.99	40.39	42.88
Massachusetts	Hyannis	32.16	32.16	43.42	46.92	46.92	46.92	46.92	48.38	48.38	48.38	47.72	48.79	49.97
Massachusetts	Springfield	35.29	37.28	38.89	49.77	43.22	38.89	38.89	38.89	38.89	38.89	39.31	40.39	42.88
Michigan	Detroit	36.17	34.50	36.31	36.35	37.02	37.81	40.89	40.89	38.32	40.68	43.28	44.22	44.69
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	41.83	42.37
Michigan	Saginaw	34.29	34.29	34.43	34.45	35.11	36.59	37.95	39.14	37.46	38.35	40.71	45.93	46.38
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	44.15	44.41
Minnesota	Minneapolis	53.25	53.50	53.50	54.93	54.91	54.98	54.98	54.85	54.85	52.05	52.99	53.92	54.19
Mississippi	Pascagoula	56.05	56.75	56.56	56.59	57.33	57.33	57.41	56.16	55.88	55.88	54.51	48.94	50.20
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	47.32	49.96
Missouri	Mexico	35.87	35.93	35.93	36.00	32.28	36.13	36.13	36.29	36.29	36.29	37.64	38.96	39.12
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	47.76	50.27
Montana	Butte	45.26	45.26	45.26	43.82	43.82	43.82	43.82	44.07	45.36	42.29	41.84	43.69	43.79
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	37.59	38.20
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	30.37	31.48

**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	2002
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	44.18	45.38
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	47.55	52.10
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	48.43	53.05
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	47.29	51.90
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	48.37	52.95
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	48.58	53.23
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	42.24	42.26
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	41.92	42.38
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	38.73	41.15
Ohio	Canton	44.48	44.48	44.48	44.48	44.48	44.22	44.22	44.22	43.11	43.96	44.84	45.86	46.30
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	53.94
Ohio	Cleveland	44.48	44.48	44.48	44.48	44.48	43.19	42.16	43.38	40.23	40.20	40.20	41.23	41.67
Ohio	Columbus	44.48	44.48	44.48	44.48	44.48	43.19	42.16	42.16	40.23	40.20	40.20	41.23	41.67
Ohio	Toledo	44.48	44.48	44.48	44.48	44.48	44.22	44.22	42.16	42.29	41.23	42.11	43.29	43.73
Oregon	Corvallis	44.50	46.06	39.59	39.60	39.69	36.99	39.56	39.58	39.83	39.97	38.11	37.72	38.93
Oregon	Portland	46.51	47.68	42.89	46.06	46.18	42.79	42.29	42.04	42.00	42.00	42.88	38.25	39.96
Pennsylvania	Allentown	35.76	35.76	35.76	36.09	35.98	37.34	37.34	36.53	37.26	37.26	38.15	39.48	39.49
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	42.21	42.22
Pennsylvania	Johnstown	36.97	38.24	37.65	37.63	37.70	37.37	37.72	37.26	40.01	40.01	40.94	42.23	39.38
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	42.21	42.22
Pennsylvania	Philadelphia	30.46	30.46	30.46	30.63	30.63	30.63	28.55	29.99	31.53	31.53	32.42	33.75	34.08
Pennsylvania	Pittsburgh	30.46	30.46	30.46	30.63	30.63	31.72	31.72	31.72	31.53	34.26	35.15	36.48	36.83
Pennsylvania	Scranton	35.76	35.76	35.76	35.76	35.98	35.98	37.34	37.26	37.26	37.26	38.15	39.48	39.49
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	70.77	73.30
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	52.21	41.70
Tennessee	Memphis	54.79	54.70	54.70	54.70	54.70	54.70	54.95	54.95	54.95	54.69	55.71	57.17	58.60
Tennessee	Nashville	52.37	52.65	52.65	52.35	52.35	52.35	52.35	52.35	53.77	53.52	54.47	55.58	56.98
Texas	Brownsville	30.32	30.03	29.74	29.74	29.23	31.23	31.23	33.82	35.26	31.44	33.83	35.02	34.70
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	32.26	37.96
Texas	Dallas	36.14	37.83	37.84	39.14	38.66	38.65	38.49	33.35	34.54	38.59	39.11	40.33	43.40
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	38.46	39.41
Texas	Houston	39.70	41.79	41.73	41.83	41.27	41.37	40.35	39.48	42.85	42.85	39.87	40.98	46.93
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	34.22	39.26
Utah	Logan	35.42	31.81	31.81	31.84	31.88	31.93	30.22	30.14	28.46	27.82	29.56	29.79	31.81
Virginia	Richmond	72.66	72.94	72.68	75.06	75.06	75.06	72.53	72.53	NA	74.56	77.97	76.98	78.38
Virginia	Smithfield	30.15	29.98	30.08	30.08	30.08	30.08	30.08	29.98	29.98	29.98	30.94	48.34	51.14
Washington	Everett	50.25	46.21	47.50	39.98	39.98	39.98	39.98	39.98	39.98	41.37	42.31	40.02	42.94
Washington	Seattle	39.08	38.35	38.39	39.43	37.03	37.03	37.03	37.19	36.47	36.47	37.42	39.32	40.63
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	61.10	59.92
Wisconsin	Milwaukee	44.71	42.63	41.54	39.27	37.48	37.48	37.51	39.69	39.69	40.80	41.15	42.18	42.78
Wisconsin	Racine	44.45	42.68	41.58	39.40	39.40	39.12	39.16	39.53	39.52	40.63	40.97	41.30	42.60

\* Rates are based upon flat-rate service where available and measured/message service with 200 five-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	2002
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	\$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	65.70
Arizona	Tucson	69.97	62.19	62.31	62.31	62.31	62.47	58.91	58.91	58.91	60.03	60.03	61.48	55.65
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	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	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	66.10	66.05
California	Bakersfield	76.20	70.84	70.25	71.17	69.87	71.64	72.23	73.16	71.10	69.80	65.62	66.10	66.05
California	Fresno	76.20	70.84	70.25	71.17	69.87	71.64	72.23	73.16	71.10	69.80	65.62	66.10	66.05
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	92.40	92.69
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	66.10	72.77
California	Oakland	76.20	70.84	70.25	71.17	69.87	71.64	72.23	73.16	71.10	69.80	70.54	66.10	71.09
California	Salinas	76.20	70.84	70.25	71.17	69.87	71.64	72.23	73.16	71.10	69.80	69.55	66.10	66.05
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	91.13	91.42
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	66.10	66.05
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	66.10	66.05
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	66.10	66.05
Colorado	Boulder	90.30	74.66	74.66	74.66	74.84	74.91	75.08	75.08	75.08	60.94	59.83	59.54	59.30
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	57.67	57.35
Colorado	Denver	91.12	75.11	75.11	75.11	75.11	75.11	75.11	75.11	75.11	60.84	59.74	59.45	59.13
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	79.50
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	79.50
District of Columbia	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	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	64.23
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	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	64.17
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	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	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	49.61	49.61
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	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	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	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	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	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	21.57	21.57
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	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	91.80	91.80
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	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	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	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	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	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	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	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	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	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	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	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	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	66.37
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	58.96
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	68.13
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	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	50.83	51.05
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	85.09	80.75

**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	2002
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	57.53	57.53
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	118.64	118.54
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	120.64	120.64
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	128.76	128.76
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	120.45	120.45
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	121.15	121.15
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	56.48	56.48
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	68.90
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	68.90
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	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	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	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	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	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	32.86	33.64
Oregon	Portland	31.15	31.00	31.00	31.00	31.00	31.00	31.00	31.93	31.93	31.93	31.93	32.86	33.64
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	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	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	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	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	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	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	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	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	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	66.65	66.74
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	63.47
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	64.57
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	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	64.57
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	64.57
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	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	64.35
Utah	Logan	70.49	53.13	53.13	53.13	53.06	53.06	53.06	53.00	53.00	53.66	53.48	53.30	53.30
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	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	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	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	55.29	55.29
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	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	68.27
Wisconsin	Racine	71.54	68.21	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, 2002)**

	Average Rate	Median Rate <sup>2</sup>
Monthly Charge for Flat-Rate Service <sup>1</sup>	\$43.41	\$40.28
Federal and State Subscriber Line Charges	6.99	7.14
Additional Monthly Charge for Touch-Tone Service	0.30	0.00
Taxes, 911, and Other Charges	8.35	7.44
<b>Total Monthly Charge for Flat-Rate Service</b>	<b>\$59.04</b>	<b>\$54.85</b>
Number of Sample Cities with Flat-Rate Service	54	-
Monthly Charge for Measured/Message Service <sup>1</sup>	\$21.13	\$18.77
Federal and State Subscriber Line Charges	6.34	0.00
Additional Monthly Charge for Touch-Tone Service	0.07	0.00
Taxes, 911, and Other Charges	4.38	3.82
<b>Total Monthly Charge for Measured/Message Service</b>	<b>\$31.92</b>	<b>\$22.59</b>
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	\$162.57	\$140.23
Additional Connection Charge for Touch-Tone Service	0.37	0.00
Taxes, 911, and Other Charges	11.42	9.57
<b>Total Connection Charge for Three Lines</b>	<b>\$174.35</b>	<b>\$149.80</b>
Additional Charge if Drop Line and Connection Block Needed	10.90	0.00

<sup>1</sup> Rate reflects universal service fund pass-through charges.

<sup>2</sup> Where a rate exists for fewer than 95 cities the median represents the midpoint rate for those cities which have the service offering.



**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	2002
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	\$37.76	\$36.72
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	6.62	6.40
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	0.14
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	6.65	6.67
<b>Total Monthly Charge</b>	<b>\$49.89</b>	<b>\$49.44</b>	<b>\$48.84</b>	<b>\$49.08</b>	<b>\$49.78</b>	<b>\$49.04</b>	<b>\$49.54</b>	<b>\$49.00</b>	<b>\$49.22</b>	<b>\$49.56</b>	<b>\$50.12</b>	<b>\$49.45</b>	<b>\$51.22</b>	<b>\$49.94</b>
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	\$43.90	\$43.41
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	7.46	6.99
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	0.40	0.30
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	7.84	8.35
<b>Total Monthly Charge for Flat-Rate Service</b>	<b>\$59.51</b>	<b>\$59.32</b>	<b>\$58.48</b>	<b>\$58.64</b>	<b>\$59.60</b>	<b>\$59.14</b>	<b>\$59.70</b>	<b>\$59.55</b>	<b>\$59.11</b>	<b>\$60.39</b>	<b>\$59.10</b>	<b>\$58.34</b>	<b>\$59.61</b>	<b>\$59.04</b>
Number of Sample Cities with Flat-Rate Service	59	56	54	54	54	53	53	53	53	54	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	\$20.76	\$21.13
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	19.07	18.05
Subscriber Line Charges	4.78	4.88	4.74	4.67	5.24	5.35	5.53	5.46	5.61	6.17	8.63	6.85	6.63	6.34
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	0.12	0.07
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	6.06	6.53
<b>Total Monthly Charge for Measured/Message Service</b>	<b>\$48.87</b>	<b>\$49.14</b>	<b>\$48.33</b>	<b>\$48.41</b>	<b>\$49.98</b>	<b>\$49.24</b>	<b>\$49.40</b>	<b>\$49.40</b>	<b>\$50.10</b>	<b>\$50.32</b>	<b>\$52.95</b>	<b>\$51.15</b>	<b>\$52.65</b>	<b>\$52.13</b>
Number of Sample Cities with Measured/Message Service	77	77	78	78	80	81	81	79	77	80	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	\$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	\$162.35	\$162.57
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	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	10.12	11.42
<b>Total Connection Charge for Three Lines</b>	<b>\$181.42</b>	<b>\$180.11</b>	<b>\$191.21</b>	<b>\$191.25</b>	<b>\$183.08</b>	<b>\$181.54</b>	<b>\$178.49</b>	<b>\$178.64</b>	<b>\$178.74</b>	<b>\$177.28</b>	<b>\$175.47</b>	<b>\$174.86</b>	<b>\$172.84</b>	<b>\$174.35</b>
Additional Charge if Drop Line and Connection Block Needec	13.39	14.09	20.79	12.76	13.28	11.58	11.69	9.89	9.57	9.57	9.69	9.66	10.90	10.90

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

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

State	City	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Alabama	Huntsville	\$90.44	\$91.97	\$90.91	\$88.82	\$78.13	\$73.73	\$70.77	\$65.70	\$64.49	\$61.80	\$61.73	\$62.33	\$61.86
Alaska	Anchorage	29.61	29.61	36.01	40.80	41.12	41.13	41.13	41.17	41.23	41.22	41.22	46.13	43.54
Arizona	Tucson	45.92	52.66	52.75	52.76	52.76	53.80	53.74	54.92	56.88	56.58	57.23	56.50	55.21
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	52.90	52.86
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	68.16	68.13
California	Anaheim	32.54	29.94	30.23	30.09	30.09	32.15	32.51	32.71	33.70	31.76	28.05	28.22	28.30
California	Bakersfield	33.10	30.56	30.26	30.12	30.12	32.79	33.14	33.36	34.35	30.69	28.62	28.80	28.88
California	Fresno	33.84	31.39	31.08	30.94	30.94	32.79	33.14	33.36	34.35	30.57	28.62	28.80	28.88
California	Long Beach	39.26	42.44	42.22	41.24	39.77	46.81	46.70	46.70	48.45	48.45	47.98	47.98	47.77
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	31.04	31.13
California	Oakland	34.32	31.88	31.56	31.71	31.71	34.48	34.29	34.44	35.56	32.23	30.15	30.34	30.43
California	Salinas	35.62	32.19	31.87	31.73	32.03	34.79	35.17	35.34	36.41	32.54	30.45	30.64	30.73
California	San Bernardino	48.73	41.67	41.64	40.68	39.23	46.17	46.06	46.06	46.06	47.79	47.79	47.98	48.21
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	28.22	28.30
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	30.34	31.53
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	29.63	29.72
Colorado	Boulder	52.33	52.18	52.54	53.77	54.30	54.59	54.57	56.69	57.68	54.67	56.44	56.00	56.11
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	52.34	52.33
Colorado	Denver	52.69	52.53	52.70	53.44	54.12	54.11	54.07	56.22	57.29	56.10	56.04	55.87	55.81
Connecticut	Ansonia	39.30	40.29	40.29	47.86	47.95	49.53	49.53	49.53	51.78	52.43	53.59	53.72	52.25
Connecticut	Norwalk	42.80	44.37	43.65	44.49	44.68	46.69	46.69	46.69	48.94	49.50	50.64	50.77	49.33
District of Columbia	Washington	35.20	35.34	35.62	35.73	35.73	33.75	35.79	37.84	35.33	36.34	36.34	37.22	40.32
Florida	Miami	61.32	56.68	62.40	63.02	61.80	56.38	56.41	56.48	57.68	57.38	58.02	57.67	57.98
Florida	Tampa	61.17	61.43	62.37	52.77	52.77	52.97	67.60	67.60	67.74	57.65	61.28	60.68	60.42
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	55.44	55.72
Georgia	Albany	63.39	62.06	59.59	60.15	60.18	60.18	62.10	63.16	64.72	65.00	65.49	66.09	66.14
Georgia	Atlanta	79.27	79.11	81.39	81.39	81.42	89.45	89.49	89.06	90.28	90.01	90.74	89.98	91.83
Hawaii	Honolulu	49.20	50.50	50.47	53.21	54.23	56.41	58.38	62.99	62.99	63.20	63.20	67.43	67.46
Illinois	Chicago	34.17	34.20	33.87	34.85	34.84	32.83	32.63	33.31	35.82	37.43	36.80	36.09	36.19
Illinois	Decatur	37.89	37.92	37.76	38.74	38.73	36.67	36.43	36.54	42.25	44.79	44.17	43.45	43.35
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	42.82	43.06
Indiana	Indianapolis	68.95	69.12	68.19	69.29	66.22	65.80	64.94	64.00	65.65	65.52	65.97	59.68	53.66
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	59.55	59.58
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	32.27	34.80
Kentucky	Louisville	89.46	92.72	92.95	93.23	93.23	81.56	76.42	75.57	56.74	56.55	58.97	57.47	51.06
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	66.35	66.44
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	64.73	64.56
Maine	Portland	42.84	43.25	43.25	43.25	43.27	41.36	41.55	42.39	46.49	48.11	47.81	50.34	49.47
Maryland	Baltimore	44.79	45.47	47.87	46.31	46.20	46.20	46.25	46.52	43.06	46.35	46.33	45.55	45.05
Massachusetts	Boston	37.67	44.04	54.91	51.36	45.62	45.49	45.49	45.40	47.92	47.80	47.02	43.95	42.88
Massachusetts	Hyannis	32.94	32.79	44.23	48.51	49.32	49.62	49.62	50.99	53.51	53.39	51.75	52.35	51.28
Massachusetts	Springfield	36.07	37.91	39.70	51.36	45.62	41.59	41.59	41.51	44.03	43.91	43.35	43.95	42.88
Michigan	Detroit	36.53	34.85	36.78	38.36	39.07	39.86	42.93	42.09	40.70	42.76	44.41	44.65	44.69
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	42.23	42.37
Michigan	Saginaw	35.70	35.70	34.88	36.37	37.07	38.58	39.93	40.29	39.72	40.27	41.75	46.34	46.38
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	48.54	48.80
Minnesota	Minneapolis	54.30	54.28	56.57	60.07	61.64	61.93	61.33	61.52	62.84	55.21	55.85	58.33	58.60
Mississippi	Pascagoula	85.07	86.02	85.26	82.93	83.67	83.67	84.39	84.86	85.87	85.61	82.05	72.66	63.25
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	61.30	59.68
Missouri	Mexico	45.17	44.87	44.70	46.65	43.29	48.72	48.92	49.11	49.11	50.96	53.77	53.56	52.35
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	61.88	60.05
Montana	Butte	56.07	56.07	56.07	54.63	54.28	54.63	54.63	56.44	59.27	56.40	55.58	55.97	56.00
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	49.07	47.75
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	35.08	35.18

**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	2002
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	57.90	57.94
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	51.35	53.40
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	52.30	54.38
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	51.06	53.20
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	52.24	54.28
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	52.46	54.56
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	50.15	50.19
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	59.65	59.32
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	56.47	58.10
Ohio	Canton	48.97	48.83	48.99	49.92	49.92	50.25	50.25	49.24	49.39	49.83	50.13	50.12	50.11
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	89.00
Ohio	Cleveland	48.97	48.83	48.99	49.92	49.92	49.22	48.19	47.18	46.51	46.07	45.50	45.49	45.48
Ohio	Columbus	48.97	48.83	48.99	49.92	49.92	49.22	48.19	47.18	46.51	46.07	45.50	45.49	45.48
Ohio	Toledo	48.97	48.83	48.99	49.92	49.92	50.25	48.19	47.18	48.57	48.13	47.56	47.55	47.54
Oregon	Corvallis	48.52	50.01	42.76	43.82	43.91	45.15	47.72	48.14	51.08	46.40	47.43	42.94	40.38
Oregon	Portland	50.55	51.65	46.08	50.62	50.76	51.65	50.52	50.64	53.31	48.47	49.07	43.28	43.99
Pennsylvania	Allentown	35.42	35.17	35.40	35.82	35.72	37.09	37.45	37.03	37.83	37.71	37.67	38.29	37.21
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	41.02	39.94
Pennsylvania	Johnstown	44.62	46.44	45.49	46.58	40.82	40.49	40.84	40.82	49.41	51.73	51.72	52.29	47.30
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	41.02	39.94
Pennsylvania	Philadelphia	30.07	29.82	30.05	30.36	30.27	30.27	28.55	31.30	32.10	31.98	31.94	32.56	31.78
Pennsylvania	Pittsburgh	30.07	29.82	30.05	30.36	30.27	31.36	31.72	31.30	32.10	34.71	34.67	35.29	34.53
Pennsylvania	Scranton	35.42	35.17	35.40	36.97	35.72	35.72	37.45	37.03	37.83	37.71	37.67	38.29	37.21
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	74.40	73.30
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	71.15	71.19
Tennessee	Memphis	91.94	92.15	92.22	92.22	92.53	92.53	92.94	94.03	95.34	94.63	94.65	95.84	95.92
Tennessee	Nashville	87.86	88.42	88.50	88.21	88.51	88.51	88.51	89.60	92.32	91.63	91.60	92.17	92.32
Texas	Brownsville	45.97	36.00	35.49	36.92	36.35	38.78	38.96	38.59	38.59	40.69	41.45	41.18	39.07
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	37.86	42.37
Texas	Dallas	56.98	45.40	45.21	48.06	47.53	47.47	47.45	46.22	47.82	49.03	47.93	47.71	48.81
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	45.25	44.29
Texas	Houston	63.17	50.08	49.83	51.50	50.88	50.94	49.87	50.67	51.71	53.09	48.61	48.37	53.02
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	40.26	44.12
Utah	Logan	41.44	37.30	37.60	39.55	39.99	40.29	38.59	38.97	38.95	37.53	39.16	37.66	37.82
Virginia	Richmond	76.13	76.41	76.15	78.94	79.52	79.52	76.94	76.96	NA	80.03	80.93	79.08	79.20
Virginia	Smithfield	32.98	32.81	32.91	45.98	45.98	45.98	45.98	58.50	58.50	62.12	62.12	93.21	96.21
Washington	Everett	70.13	64.73	66.45	64.54	64.54	59.54	59.54	59.54	59.54	65.15	55.59	50.61	52.74
Washington	Seattle	43.08	41.01	41.44	43.91	41.49	55.01	41.72	42.00	41.49	40.85	41.84	42.37	41.09
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	72.05	68.84
Wisconsin	Milwaukee	48.07	43.07	42.14	39.87	39.10	39.03	38.96	40.55	41.94	42.80	42.43	42.55	42.78
Wisconsin	Racine	47.81	43.13	42.17	40.00	40.00	40.66	40.59	40.39	41.76	42.62	42.25	42.49	42.60

\* Rates are based upon flat-rate service where available and measured/message service with 200 five-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	2002
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	\$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	137.00
Arizona	Tucson	253.22	229.90	230.31	230.31	230.31	220.89	217.76	217.76	217.76	221.91	221.91	227.27	220.35
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	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	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	282.40	282.19
California	Bakersfield	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54	303.74	298.21	280.32	282.40	282.19
California	Fresno	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54	303.74	298.21	280.32	282.40	282.19
California	Long Beach	186.14	208.14	209.89	209.89	200.93	209.08	229.36	229.36	229.36	152.94	152.94	152.77	153.24
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	282.40	310.90
California	Oakland	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54	303.74	298.21	301.34	282.40	303.73
California	Salinas	228.61	302.66	300.10	304.06	298.50	306.05	308.55	312.54	303.74	298.21	297.14	282.40	282.19
California	San Bernadino	186.14	208.14	209.89	209.89	200.93	209.08	226.24	226.24	226.24	150.86	150.86	150.66	151.14
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	282.40	282.19
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	282.40	282.19
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	282.40	282.19
Colorado	Boulder	297.98	255.98	255.98	255.98	256.58	256.82	257.42	257.78	257.42	216.04	212.72	211.70	205.89
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	205.06	199.13
Colorado	Denver	300.70	257.52	257.52	257.52	257.52	257.52	257.52	257.52	257.52	215.72	212.40	211.39	205.31
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	238.50
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	238.50
District of Columbia	Washington	124.07	125.72	116.77	116.77	116.77	116.77	147.25	147.25	147.25	147.25	147.25	133.50	133.50
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	91.75
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	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	91.67
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	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	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	111.98	111.98
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	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	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	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	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	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	27.80	27.80
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	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	160.92	160.92
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	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	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	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	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	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	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	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	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	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	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	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	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	178.30
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	176.88
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	183.01
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	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	186.37	187.19
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	131.11	124.43

**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	2002
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	215.79	215.79
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	230.63	230.42
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	234.52	234.52
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	250.29	250.29
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	234.15	234.15
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	235.50	235.50
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	103.09	103.09
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	115.54
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	115.54
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	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	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	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	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	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	115.54	126.95
Oregon	Portland	93.46	93.00	93.00	93.00	93.00	117.00	120.51	120.51	120.51	120.51	120.51	115.54	126.95
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	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	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	121.20	121.20
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	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	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	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	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	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	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	137.29	137.48
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	130.74
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	125.52
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	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	125.52
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	125.52
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	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	125.08
Utah	Logan	255.99	204.00	204.00	204.00	203.75	203.76	203.76	203.52	203.52	206.04	205.37	204.99	188.54
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	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	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	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	203.87	203.87
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	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	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	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, 2002)**

	Average Rate	Median Rate <sup>2</sup>
Monthly Charge for Flat-Rate Service <sup>1</sup>	\$48.77	\$45.15
Federal and State Subscriber Line Charges	7.11	7.64
Additional Monthly Charge for Touch-Tone Service	0.38	0.00
Taxes, 911, and Other Charges	9.17	8.01
<b>Total Monthly Charge for Flat-Rate Service</b>	<b>\$65.44</b>	<b>\$60.79</b>
Number of Sample Cities with Flat-Rate Service	54	-
Monthly Charge for Measured/Message Service <sup>1</sup>	\$20.92	\$19.48
Federal and State Subscriber Line Charges	6.33	6.55
Additional Monthly Charge for Touch-Tone Service	0.07	0.00
Taxes, 911, and Other Charges	4.39	3.77
<b>Total Monthly Charge for Measured/Message Service</b>	<b>\$31.72</b>	<b>\$29.80</b>
Cost of a 5-Minute Daytime Call	\$0.09	\$0.09
Number of Sample Cities with Message/Measured Service	76	-
Basic Connection Charge for Three Lines	\$162.03	\$140.23
Additional Connection Charge for Touch-Tone Service	0.37	0.00
Taxes, 911, and Other Charges	11.43	9.57
<b>Total Connection Charge for Three Lines</b>	<b>\$173.83</b>	<b>\$149.80</b>
Additional Charge if Drop Line and Connection Block Needed	9.84	0.00

<sup>1</sup> Rate reflects universal service fund pass-through charges.

<sup>2</sup> Where a rate exists for fewer than 95 cities the median represents the midpoint rate for those cities which have the service offering.

**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	2002
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	\$39.75	\$39.38
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	6.56	6.41
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	0.23	0.17
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	7.51	8.02
<b>Total Monthly Charge</b>	<b>\$53.14</b>	<b>\$53.10</b>	<b>\$54.08</b>	<b>\$54.11</b>	<b>\$53.98</b>	<b>\$52.85</b>	<b>\$53.12</b>	<b>\$52.95</b>	<b>\$52.63</b>	<b>\$52.29</b>	<b>\$53.66</b>	<b>\$53.10</b>	<b>\$54.06</b>	<b>\$53.98</b>
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	\$49.54	\$49.26
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	7.47	7.11
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	0.51	0.38
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	9.44	9.17
<b>Total Monthly Charge for Flat-Rate Service</b>	<b>\$65.81</b>	<b>\$65.19</b>	<b>\$67.11</b>	<b>\$66.99</b>	<b>\$67.36</b>	<b>\$66.56</b>	<b>\$66.66</b>	<b>\$66.26</b>	<b>\$65.87</b>	<b>\$67.36</b>	<b>\$65.55</b>	<b>\$65.58</b>	<b>\$66.96</b>	<b>\$65.44</b>
Number of Sample Cities with Flat-Rate Service	53	56	54	54	54	53	53	53	53	54	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	\$21.09	\$21.40
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	17.95	18.01
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	6.33	6.33
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	0.07	0.07
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	6.40	6.56
<b>Total Monthly Charge for Measured/Message Service</b>	<b>\$50.09</b>	<b>\$49.97</b>	<b>\$49.93</b>	<b>\$50.20</b>	<b>\$50.73</b>	<b>\$49.71</b>	<b>\$49.73</b>	<b>\$49.54</b>	<b>\$50.31</b>	<b>\$49.72</b>	<b>\$51.83</b>	<b>\$51.54</b>	<b>\$51.84</b>	<b>\$52.38</b>
Number of Sample Cities with Measured/Message Service	77	74	76	76	78	79	79	78	76	78	78	78	76	76
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	\$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	\$161.85	\$162.03
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	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	10.13	11.43
<b>Total Connection Charge for Three Lines</b>	<b>\$179.31</b>	<b>\$179.31</b>	<b>\$191.16</b>	<b>\$191.39</b>	<b>\$183.23</b>	<b>\$181.69</b>	<b>\$178.59</b>	<b>\$178.73</b>	<b>\$177.99</b>	<b>\$177.14</b>	<b>\$175.06</b>	<b>\$174.46</b>	<b>\$172.36</b>	<b>\$173.83</b>
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	9.83	9.84

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

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

State	City	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Alabama	Huntsville	\$94.73	\$91.97	\$90.91	\$88.82	\$78.13	\$73.73	\$70.77	\$65.70	\$64.49	\$61.80	\$61.73	\$62.33	\$61.86
Alaska	Anchorage	29.61	29.61	36.01	40.80	41.12	41.13	41.13	41.17	43.31	43.29	43.29	48.38	45.63
Arizona	Tucson	50.03	58.05	58.14	58.15	58.15	60.04	60.35	61.24	63.20	62.89	63.55	63.06	63.00
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	52.90	52.86
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	68.16	68.13
California	Anaheim	32.54	33.98	34.32	30.09	30.09	32.15	32.51	32.71	33.70	31.76	28.05	28.22	28.30
California	Bakersfield	33.10	34.61	34.27	30.12	30.12	32.79	33.14	33.36	34.35	33.25	28.62	28.80	28.88
California	Fresno	33.84	35.43	35.09	30.94	30.94	32.79	33.14	33.36	34.35	33.12	28.62	28.80	28.88
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	53.34	53.09
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	31.04	31.13
California	Oakland	34.32	36.18	35.83	31.71	31.71	34.48	34.85	35.01	36.12	32.23	30.15	30.34	30.43
California	Salinas	35.62	36.44	36.08	31.73	32.03	34.79	35.17	35.34	36.41	34.71	30.45	30.64	30.73
California	San Bernadino	48.73	41.67	41.64	40.68	39.23	51.57	51.45	51.45	53.18	53.18	53.18	53.34	53.59
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	28.22	28.30
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	30.34	31.53
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	29.63	29.72
Colorado	Boulder	53.59	59.02	59.38	60.65	58.23	58.52	58.50	60.61	61.60	63.43	62.51	61.89	62.10
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	57.85	57.91
Colorado	Denver	53.96	59.40	59.57	60.29	58.04	58.03	57.98	60.13	61.20	63.06	62.06	61.76	61.76
Connecticut	Ansonia	39.30	40.29	40.29	47.86	47.95	49.53	49.53	49.53	51.78	52.43	53.59	53.72	52.25
Connecticut	Norwalk	42.80	44.37	43.65	44.49	44.68	46.69	46.69	46.69	48.94	49.50	50.64	50.77	49.33
District of Columbia	Washington	35.20	35.34	36.23	35.96	35.96	33.97	36.03	37.97	35.33	36.34	36.34	37.22	40.32
Florida	Miami	86.87	80.18	88.30	89.15	87.93	81.38	81.40	81.47	82.37	82.37	83.01	81.28	80.90
Florida	Tampa	79.88	80.18	81.40	52.77	52.77	65.41	71.06	71.06	71.21	71.21	74.85	73.92	73.60
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	77.66	65.48
Georgia	Albany	63.39	66.87	62.50	63.07	63.10	63.10	65.08	65.08	67.99	67.99	68.51	69.11	69.16
Georgia	Atlanta	79.27	84.99	84.99	84.99	85.02	93.31	93.35	94.41	95.36	95.36	96.14	95.33	97.25
Hawaii	Honolulu	60.64	61.93	61.90	65.10	66.30	69.14	71.61	76.60	76.60	76.81	76.81	81.55	81.58
Illinois	Chicago	35.31	35.34	35.01	34.85	34.84	32.83	32.63	33.31	35.82	37.43	36.80	36.09	36.19
Illinois	Decatur	42.44	42.46	42.30	38.74	38.73	36.67	36.43	36.54	42.25	44.79	44.17	43.45	43.35
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	42.82	43.06
Indiana	Indianapolis	68.95	69.12	68.19	69.29	66.22	65.80	64.94	64.00	65.65	65.52	65.97	59.36	53.66
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	59.55	59.58
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	47.97	51.73
Kentucky	Louisville	89.46	92.72	92.95	93.23	93.23	81.56	76.42	75.57	56.49	56.55	58.97	57.47	51.08
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	66.35	66.44
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	64.73	64.56
Maine	Portland	61.74	62.33	62.33	62.33	62.35	58.75	58.95	60.26	65.08	67.57	67.18	70.66	69.79
Maryland	Baltimore	44.79	45.47	47.87	46.31	46.20	46.20	46.25	46.52	43.06	46.35	46.33	45.55	45.05
Massachusetts	Boston	40.45	46.82	57.69	54.14	48.40	48.27	48.27	48.18	50.70	50.58	47.02	43.95	42.88
Massachusetts	Hyannis	49.12	48.97	66.05	72.06	72.87	73.17	73.17	75.64	78.16	78.04	73.62	74.22	73.15
Massachusetts	Springfield	38.85	40.69	42.48	54.14	48.40	44.37	44.37	44.29	46.81	46.69	43.35	43.95	42.88
Michigan	Detroit	37.83	36.09	38.08	39.66	40.39	41.18	44.26	43.42	40.70	42.76	44.41	44.65	44.69
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	42.23	42.37
Michigan	Saginaw	36.95	36.95	36.12	37.61	38.33	39.87	39.93	40.29	39.72	40.27	41.75	46.34	46.38
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	50.47	50.73
Minnesota	Minneapolis	61.67	61.55	61.64	61.67	63.24	64.93	64.32	64.14	65.45	61.73	62.37	60.44	60.70
Mississippi	Pascagoula	85.07	86.02	85.26	82.93	83.67	83.67	84.39	84.86	85.61	85.61	82.05	72.66	63.25
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	61.30	59.68
Missouri	Mexico	45.17	44.87	44.70	46.65	43.29	48.72	48.92	49.11	49.11	50.96	53.77	53.56	52.35
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	61.88	60.05
Montana	Butte	56.07	56.07	56.07	54.63	54.28	54.63	54.63	56.44	59.27	45.27	58.45	58.84	58.88
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	61.04	59.78
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	35.47	35.57



**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	2002
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	63.45	63.49
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	51.35	53.40
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	52.30	54.38
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	51.06	53.20
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	52.24	52.17
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	52.46	54.56
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	50.15	50.19
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	67.08	68.02
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	64.32	66.18
Ohio	Canton	55.56	55.42	55.58	56.52	56.52	54.22	54.22	53.21	53.36	53.80	54.10	54.09	54.08
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	89.00
Ohio	Cleveland	55.56	55.42	55.58	56.52	56.52	53.19	52.16	51.15	50.47	50.04	49.46	49.45	49.44
Ohio	Columbus	55.56	55.42	55.58	56.52	56.52	53.19	52.16	51.15	50.47	50.04	49.46	49.45	49.44
Ohio	Toledo	55.56	55.42	55.58	56.52	56.52	54.22	54.22	51.15	52.53	52.10	51.52	51.51	51.50
Oregon	Corvallis	56.89	60.37	47.08	48.14	48.23	45.15	47.72	48.14	51.08	46.40	47.43	45.06	38.99
Oregon	Portland	57.17	60.67	47.46	52.11	52.24	51.65	50.52	50.64	53.31	48.47	49.07	45.35	42.86
Pennsylvania	Allentown	35.42	35.17	35.40	37.57	37.47	38.84	39.20	37.03	37.83	37.71	37.67	38.29	37.21
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	41.02	39.94
Pennsylvania	Johnstown	55.65	57.87	56.73	57.78	42.46	42.11	42.47	42.45	60.93	63.24	63.23	63.81	57.18
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	41.02	39.94
Pennsylvania	Philadelphia	30.07	29.82	30.05	32.11	32.01	32.01	28.55	31.30	32.10	31.98	31.94	32.56	31.78
Pennsylvania	Pittsburgh	30.07	29.82	30.05	32.11	32.01	33.10	33.46	31.30	32.10	34.71	34.67	35.29	34.53
Pennsylvania	Scranton	35.42	35.17	35.40	36.97	37.47	37.47	39.20	37.03	37.83	37.71	37.67	38.29	37.21
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	74.40	73.30
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	71.15	71.19
Tennessee	Memphis	91.94	92.15	92.22	92.22	92.53	92.53	92.94	94.03	95.07	94.63	94.65	95.84	95.92
Tennessee	Nashville	87.86	88.42	88.50	88.21	88.51	88.51	88.51	89.60	92.05	91.63	91.60	92.17	92.32
Texas	Brownsville	47.83	45.51	44.90	46.34	44.85	47.92	48.10	47.64	47.64	49.89	50.65	50.38	47.62
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	46.41	51.18
Texas	Dallas	58.83	59.15	58.91	61.81	60.39	60.33	60.26	58.70	60.73	61.87	60.77	60.54	60.52
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	55.86	54.06
Texas	Houston	65.05	65.67	65.40	67.11	65.55	65.65	64.21	65.25	65.10	66.48	62.00	61.76	66.52
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	49.69	53.85
Utah	Logan	57.83	58.07	58.36	57.26	57.69	57.98	53.34	53.71	42.79	41.77	45.40	43.29	43.86
Virginia	Richmond	114.51	114.79	114.50	118.60	119.18	119.18	115.76	115.79	NA	119.02	120.09	116.77	116.89
Virginia	Smithfield	61.16	60.76	60.87	60.87	60.87	60.87	60.87	58.50	58.50	62.12	62.12	93.21	96.21
Washington	Everett	70.13	64.73	66.45	64.54	64.54	59.54	59.54	59.54	59.54	65.15	55.59	56.52	52.74
Washington	Seattle	59.88	57.72	58.06	60.45	54.42	55.01	54.64	54.97	54.97	40.85	41.84	42.37	41.09
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	88.58	84.60
Wisconsin	Milwaukee	48.54	48.61	45.13	39.87	39.10	39.03	38.96	45.33	48.90	48.96	53.51	55.01	56.10
Wisconsin	Racine	48.28	48.66	45.16	40.00	40.00	40.66	40.59	45.15	48.69	48.75	53.28	54.78	55.86

\* Rates are based upon flat-rate service where available and measured/message service with 200 five-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	2002
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	\$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	137.00
Arizona	Tucson	243.22	219.90	220.30	220.30	220.30	220.89	217.76	217.74	217.74	221.88	221.88	227.27	220.35
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	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	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	282.40	282.19
California	Bakersfield	228.61	302.66	300.10	304.06	298.50	306.05	308.55	313.18	304.58	300.07	280.30	282.40	282.19
California	Fresno	228.61	302.66	300.10	304.06	298.50	306.05	308.55	313.18	304.58	300.07	280.30	282.40	282.19
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	152.77	153.24
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	282.40	310.90
California	Oakland	228.61	302.66	300.10	304.06	298.50	306.05	308.55	313.18	304.58	300.07	301.84	282.40	303.73
California	Salinas	228.61	302.66	300.10	304.06	298.50	306.05	308.55	313.18	304.58	300.07	297.53	282.40	282.19
California	San Bernadino	186.14	208.14	209.89	209.89	200.93	209.08	226.24	226.39	226.39	150.66	150.66	150.66	151.14
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	282.40	282.19
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	282.40	282.19
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	282.40	282.19
Colorado	Boulder	297.98	255.98	255.98	255.98	256.58	256.82	257.42	257.42	257.42	215.59	212.28	211.70	197.66
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	205.06	191.16
Colorado	Denver	300.70	257.52	257.52	257.52	257.52	257.52	257.52	257.52	257.52	215.28	211.97	198.18	197.10
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	238.50
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	238.50
District of Columbia	Washington	124.07	125.72	116.77	116.77	116.77	116.77	147.25	147.25	147.25	147.25	147.25	133.50	133.50
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	91.75
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	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	91.67
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	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	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	111.98	111.98
Illinois	Chicago	139.08	139.11	138.18	138.18	138.18	96.17	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	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	96.74
Indiana	Indianapolis	99.00	99.00	99.00	99.00	99.00	99.00	59.00	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	114.03
Iowa	Fort Dodge	50.08	45.31	45.31	45.31	45.31	45.31	45.31	45.31	28.65	27.85	27.85	27.80	27.80
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	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	160.92	160.92
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	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	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	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	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	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	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	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	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	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	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	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	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	178.30
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	176.88
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	183.01
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	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	186.37	187.19
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	131.11	124.43

**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	2002
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	284.74	284.74
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	230.63	230.42
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	234.52	234.52
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	250.29	250.29
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	234.15	234.15
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	235.50	235.50
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	103.09	103.09
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	115.54
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	115.54
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	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	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	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	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	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	115.54	126.95
Oregon	Portland	93.46	93.00	93.00	93.00	93.00	117.00	117.00	120.51	120.51	120.51	120.51	124.02	126.95
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	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	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	121.20	121.20
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	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	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	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	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	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	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	137.29	137.48
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	130.74
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	125.52
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	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	125.52
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	125.52
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	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	125.08
Utah	Logan	255.99	204.00	204.00	204.00	203.75	203.76	203.76	203.52	203.52	205.92	205.29	204.99	188.54
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	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	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	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	203.87	203.87
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	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	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	111.35

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





**Table 1.23**  
**Average Revenue per Minute for Interstate Toll Service Calls**

<b>Year</b>	<b>Revenue per Minute</b>
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
2001	0.08

Source: Industry Analysis and Technology Division, Wireline Competition Bureau, *Telecommunications Industry Revenues* (March 2003).

## II. Expenditures on Telephone Service

### A. Residential Expenditures

The Bureau of Labor Statistics (BLS) conducts surveys of consumer expenditures, in part, to develop weights for the consumer price indices. The surveys collect income, expenditure, and demographic information for “consumer units.” Consumer units are often referred to as households, but the definition is not identical to households, as defined by the Census Bureau.<sup>1</sup> For instance, there were approximately 110 million consumer units in 2001, compared with approximately 107.7 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 2001. According to BLS, 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 until 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

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<sup>1</sup> We also refer to consumer units as “households.”

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.

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 Telecoms, 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.

## **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.

## **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/](http://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. Table 2.6 comes from these databases. For additional information visit [www.tnstelecoms.com](http://www.tnstelecoms.com) or contact them at 1-866-811-TNST or by e-mail at [contact@tnstelecoms.com](mailto: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](http://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 U.S. Census Bureau has since replaced the SIC codes with the North American Industry Classification System (NAICS). Information concerning the conversion from 1987 SIC codes to NAICS can be found at [www.census.gov/epcd/naics02/](http://www.census.gov/epcd/naics02/) on the Internet.

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](http://www.census.gov) on the Internet.

**Table 2.1**  
**Average Annual Expenditures**  
**By Household Locations**

	All Households	Urban Households	Rural Households	Census Region			
				Northeast	Midwest	South	West
<b>Total Household Expenditures</b>							
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
2001	39,518	40,355	33,681	41,169	39,548	36,285	43,261
<b>Household Expenditure for Telephone Service</b>							
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
2001	914	927	825	897	914	924	914
<b>Expenditures on Telephone Service as a Percentage of Total Household Expenditures</b>							
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	2.29	2.25	2.63	2.20	2.36	2.59	1.94
2001	2.31	2.30	2.45	2.18	2.31	2.55	2.11

**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
2001	40,968	28,903	34,361	40,009
<b>Household Expenditure for Telephone Service</b>				
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
2001	899	1,024	917	914
<b>Expenditures on Telephone Service as Percentage of Total Household Expenditures</b>				
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	2.18	3.41	2.63	2.27
2001	2.19	3.54	2.67	2.28

**Table 2.3**  
**Average Annual Household Expenditures**  
**by Household Income**

<b>Households Grouped by Total Income from Lowest to Highest Quintile</b>					
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>5</b>
<b>Total Household Expenditures</b>					
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
2001	18,883	26,492	35,660	48,772	77,125
<b>Household Expenditures for Telephone Service</b>					
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
2001	558	727	906	1,054	1,343
<b>Expenditures on Telephone Service as a Percentage of Total Household Expenditures</b>					
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	3.33	2.70	2.49	2.12	1.63
2001	2.96	2.74	2.54	2.16	1.74

**Table 2.4**  
**Average Annual Household Expenditures**  
**By Age of the Head of the Household**

<b>By Age of the Head of the Household</b>							
	<b>Under 25</b>	<b>25-34</b>	<b>35-44</b>	<b>45-54</b>	<b>55-64</b>	<b>65-74</b>	<b>Over 74</b>
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
2001	23,526	39,451	46,908	47,930	41,462	32,023	23,099
<b>Household Expenditures for Telephone Service</b>							
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	1,008	869	711	506
2000	589	950	1,018	1,007	909	720	511
2001	629	1,001	1,035	1,072	926	746	551
<b>Expenditures on Telephone Service as a Percentage of Total Household Expenditures</b>							
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	2.59	2.55	2.22	2.17	2.20	2.38	2.21
2001	2.67	2.54	2.21	2.24	2.23	2.33	2.39

**Table 2.5**  
**Average Annual Household Expenditures**  
**By Size of the Household**

<b>By Size of the Household</b>					
	<b>1</b>	<b>2</b>	<b>3</b>	<b>4</b>	<b>Over 4</b>
<b>Total Household Expenditures</b>					
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
2001	23,507	40,359	45,508	54,395	53,805
<b>Household Expenditures for Telephone Service</b>					
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	1,016
1998	581	839	990	991	1,022
1999	592	847	994	1,050	1,094
2000	607	865	1,031	1,108	1,136
2001	620	905	1,091	1,166	1,194
<b>Expenditures on Telephone Service as a Percentage of Total Household Expenditures</b>					
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	2.64	2.18	2.32	2.14	2.30
2001	2.64	2.24	2.40	2.14	2.22

**Table 2.6**

**Average Annual Household Telecommunications Expenditures  
By Type of Provider \***

	<b>Local Exchange</b>	<b>Long Distance Carriers</b>	<b>Wireless Carriers</b>	<b>Total Expenditures</b>
1995	\$346	\$250	\$82	\$596
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
2002	436	149	417	1,001

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

\* Excludes households in Alaska and Hawaii.

Source: Calculated by Industry Analysis and Technology Division staff using survey data from TNS Telecoms *ReQuest Market Monitor*™, Bill Harvesting®.

**Table 2.7**  
**1999 Use of Communications Commodities by Industry**

<b>I-O Industry Group</b>	<b>Total Industry Output (Millions)</b>	<b>Purchases of Communications Except Radio &amp; Television (Millions)</b>	<b>Communications Purchases of Percent of Industry Output</b>	<b>Communications Purchases by Industry as a Percent of Total Communications Commodities</b>
1 Livestock and livestock products	\$99,657	\$325	0.33%	0.08%
2 Other Agricultural products	109,658	364	0.33	0.09
3 Forestry and fishery products	15,667	15	0.10	0.00
4 Agricultural, forestry, and fishery services	52,241	239	0.46	0.06
5 & 6 Metallic ores mining	10,157	38	0.38	0.01
7 Coal mining	21,602	44	0.21	0.01
8 Crude petroleum and natural gas	102,534	233	0.23	0.06
9&10 Nonmetallic minerals mining	16,107	63	0.39	0.02
11 New Construction	745,620	3,115	0.42	0.81
12 Repair and maintenance construction	320,753	1,512	0.47	0.39
13 Ordinance and accessories	16,367	90	0.55	0.02
14 Food and kindred products	494,576	879	0.18	0.23
15 Tobacco manufactures	51,623	77	0.15	0.02
16 Broad and narrow fabrics, yarn and thread mills	42,356	72	0.17	0.02
17 Miscellaneous textile goods and floor coverings	22,792	74	0.33	0.02
18 Apparel	64,897	166	0.26	0.04
19 Miscellaneous fabricated textile products	29,577	74	0.25	0.02
20 & 21 Lumber and wood products	128,487	240	0.19	0.06
22 & 23 Furniture and fixtures	71,860	254	0.35	0.07
24 Paper & allied products, except containers	118,003	330	0.28	0.09
25 Paperboard containers and boxes	42,615	131	0.31	0.03
26A Newspapers and periodicals	26,219	477	1.82	0.12
26B Other printing & publishing	103,135	587	0.57	0.15
27A Industrial and other chemicals	135,401	335	0.25	0.09
27B Agricultural fertilizers and chemicals	21,842	54	0.24	0.01
28 Plastics and synthetic materials	67,270	319	0.47	0.08
29A Drugs	100,278	379	0.38	0.10
29B Cleaning and toilet preparations	49,832	192	0.39	0.05
30 Paints & allied products	18,803	53	0.28	0.01
31 Petroleum refining and related industries	170,914	254	0.15	0.07
32 Rubber & miscellaneous plastics products	169,957	549	0.32	0.14
33 & 34 Footwear, leather, and leather products	8,341	24	0.29	0.01
35 Glass and glass products	23,402	89	0.38	0.02
36 Stone and clay products	72,779	229	0.32	0.06
37 Primary iron and steel manufacturing	94,889	223	0.23	0.06
38 Primary nonferrous metals manufacturing	85,226	196	0.23	0.05
39 Metal containers	12,933	26	0.20	0.01
40 Heating, plumbing, & structural metal parts	79,497	248	0.31	0.06
41 Screw machine products and stampings	56,294	142	0.25	0.04
42 Other fabricated metal products	82,339	294	0.36	0.08
43 Engines and turbines	28,605	66	0.23	0.02
44 & 45 Farm, construction and mining machinery	51,060	155	0.30	0.04
46 Materials handling machinery and equipment	14,887	55	0.37	0.01
47 Metal working machinery and equipment	39,832	176	0.44	0.05
48 Special industrial machinery and equipment	34,257	173	0.50	0.04
49 General industrial machinery and equipment	40,186	191	0.48	0.05
50 Miscellaneous machinery, except electrical	39,073	120	0.31	0.03
51 Computer and office equipment	104,654	560	0.54	0.15
52 Service industry machinery	39,049	131	0.34	0.03
53 Electrical industrial equipment and apparatus	41,404	180	0.43	0.05
54 Household appliances	22,462	92	0.41	0.02



**Table 2.7**  
**1999 Use of Communications Commodities by Industry - Continued**

<b>I-O Industry Group</b>	<b>Total Industry Output (Millions)</b>	<b>Purchases of Communications Except Radio &amp; Television (Millions)</b>	<b>Communications Purchases of Percent of Industry Output</b>	<b>Communications Purchases by Industry as a Percent of Total Communications Commodities</b>
55 Electric lighting and wiring equipment	26,750	101	0.38	0.03
56 Audio, video, and communications equipment	99,938	585	0.58	0.15
57 Electronic components and accessories	150,787	759	0.50	0.20
58 Miscellaneous electrical machinery and supplies	28,130	83	0.29	0.02
59A Motor vehicles (passenger cars and trucks)	260,164	335	0.13	0.09
59B Truck/bus bodies, trailers, and motor vehicle	148,382	317	0.21	0.08
60 Aircraft parts	127,044	273	0.21	0.07
61 Other transportation equipment	48,489	119	0.25	0.03
62 Scientific and controlling instruments	134,192	764	0.57	0.20
63 Ophthalmic and photographic equipment	21,812	154	0.71	0.04
64 Miscellaneous manufacturing	51,756	197	0.38	0.05
65A Railroads, and related services	81,841	607	0.74	0.16
65B Motor freight transportation and warehousing	245,876	3,281	1.33	0.85
65C Water transportation	40,925	54	0.13	0.01
65D Air transportation	148,915	1,618	1.09	0.42
65E Pipelines, freight forwarders and related services	41,670	1,635	3.92	0.43
66 Communications, except radio and TV	384,486	63,517	16.52	16.52
67 Radio and television broadcasting	5,928	933	15.74	0.24
68A Electric services (utilities)	230,976	402	0.17	0.10
68B Gas production and distribution (utilities)	101,547	61	0.06	0.02
68C Water and sanitary services	72,083	563	0.78	0.15
69A Wholesale trade	883,029	18,481	2.09	4.81
69B Retail trade	796,357	9,895	1.24	2.57
70A Finance	761,040	13,090	1.72	3.40
70B Insurance	356,818	6,791	1.90	1.77
71A Owner-occupied dwellings	673,525	-	0.00	0.00
71B Real estate and royalties	855,883	5,761	0.67	1.50
72A Hotels and lodging places	88,331	1,186	1.34	0.31
72B Personal and repair services	134,522	1,805	1.34	0.47
73A Computer and data processing services	419,702	9,237	2.20	2.40
73B Legal engineering accounting services	397,290	5,375	1.35	1.40
73C Other businesses and professional services	653,498	9,601	1.47	2.50
73D Advertising	213,214	586	0.27	0.15
74 Eating and drinking places	394,950	1,573	0.40	0.41
75 Automobile repair and services	282,793	2,350	0.83	0.61
76 Amusements	216,302	1,842	0.85	0.48
77A Health Services	798,018	7,865	0.99	2.05
77B Educational and social services	345,272	3,805	1.10	0.99
78 Federal government enterprises	79,082	452	0.57	0.12
79 State and local government enterprises	46,513	659	1.42	0.17
82 General government industry	1,004,347		0.00	0.00
84 Household industry	13,111.00		0.00	0.00
Personal consumption expenditures	6,246,517	158,405	2.54	
Gross private fixed investment	1,577,194	9,262	0.59	
Changes in private inventories	59,500		0.00	
Exports	909,737	5,597	0.62	
Imports	-1,159,626		0.00	
Federal government purchases	565,000	6,670	1.18	
State and local government purchases	1,076,000	12,942	1.20	
Gross Domestic Product	25,274,351	192,877	0.76	
Intermediate Use	6,998,244	191,609	2.74	
Total Commodity Output	16,272,567	384,486	2.36	

**Table 2.8**  
**1999 Use of Commodities by the Communications Industry**

<b>I-O Industry Group</b>		<b>Total Commodity Output (Millions)</b>	<b>Sales to Communications Except Radio and Television Industry (Millions)</b>	<b>Percentage of Total Sales to Communications Except Radio &amp; Television Industry</b>	<b>Sales to Communications Except Radio &amp; TV as Percent of Communications Industry Output</b>
1	Livestock and livestock products	\$99,657		0.00%	0.00%
2	Other Agricultural products	109,658	\$2	0.00	0.00
3	Forestry and fishery products	15,667		0.00	0.00
4	Agricultural, forestry, and fishery services	52,241	131	0.25	0.03
5 & 6	Metallic ores mining	10,157		0.00	0.00
7	Coal mining	21,602		0.00	0.00
8	Crude petroleum and natural gas	102,534		0.00	0.00
9&10	Nonmetallic minerals mining	16,107		0.00	0.00
11	New Construction	745,620		0.00	0.00
12	Repair and maintenance construction	320,753	18,025	5.62	4.62
13	Ordinance and accessories	16,367		0.00	0.00
14	Food and kindred products	494,576		0.00	0.00
15	Tobacco manufactures	51,623		0.00	0.00
16	Broad and narrow fabrics, yarn and thread mills	42,356		0.00	0.00
17	Miscellaneous textile goods and floor coverings	22,792	2	0.01	0.00
18	Apparel	64,897	148	0.23	0.04
19	Miscellaneous fabricated textile products	29,577	8	0.03	0.00
20 & 21	Lumber and wood products	128,487	56	0.04	0.01
22 & 23	Furniture and fixtures	71,860		0.00	0.00
24	Paper & allied products, except containers	118,003	370	0.31	0.09
25	Paperboard containers and boxes	42,615	191	0.45	0.05
26A	Newspapers and periodicals	26,219	247	0.94	0.06
26B	Other printing & publishing	103,135	1,362	1.32	0.35
27A	Industrial and other chemicals	135,401	22	0.02	0.01
27B	Agricultural fertilizers and chemicals	21,842		0.00	0.00
28	Plastics and synthetic materials	67,270		0.00	0.00
29A	Drugs	100,278	8	0.01	0.00
29B	Cleaning and toilet preparations	49,832	36	0.07	0.01
30	Paints & allied products	18,803	101	0.54	0.03
31	Petroleum refining and related industries	170,914	356	0.21	0.09
32	Rubber & miscellaneous plastics products	169,957	901	0.53	0.23
33 & 34	Footwear, leather, and leather products	8,341	3	0.03	0.00
35	Glass and glass products	23,402	46	0.20	0.01
36	Stone and clay products	72,779		0.00	0.00
37	Primary iron and steel manufacturing	94,889		0.00	0.00
38	Primary nonferrous metals manufacturing	85,226	36	0.04	0.01
39	Metal containers	12,933		0.00	0.00
40	Heating, plumbing, & structural metal parts	79,497		0.00	0.00
41	Screw machine products and stampings	56,294	608	1.08	0.16
42	Other fabricated metal products	82,339	557	0.68	0.14
43	Engines and turbines	28,605	490	1.71	0.13
44 & 45	Farm, construction and mining machinery	51,060		0.00	0.00
46	Materials handling machinery and equipment	14,887		0.00	0.00
47	Metal working machinery and equipment	39,832	11	0.03	0.00
48	Special industrial machinery and equipment	34,257		0.00	0.00
49	General industrial machinery and equipment	40,186	748	1.86	0.19
50	Miscellaneous machinery, except electrical	39,073	34	0.09	0.01
51	Computer and office equipment	104,654	837	0.80	0.21
52	Service industry machinery	39,049	7	0.02	0.00
53	Electrical industrial equipment and apparatus	41,404	836	2.02	0.21
54	Household appliances	22,462		0.00	0.00
55	Electric lighting and wiring equipment	26,750	197	0.73	0.06
56	Audio, video, and communications equipment	99,938	5,740	5.74	1.47
57	Electronic components and accessories	150,787	6,843	4.54	1.75

**Table 2.8**  
**1999 Use of Commodities by the Communications Industry - Continued**

<b>I-O Industry Group</b>		<b>Total Commodity Output (Millions)</b>	<b>Sales to Communications Except Radio and Television Industry (Millions)</b>	<b>Percentage of Total Sales to Communications Except Radio &amp; Television Industry</b>	<b>Sales to Communications Except Radio &amp; TV as Percent of Communications Industry Output</b>
58	Miscellaneous electrical machinery and supplies	28,130	358	1.27	0.09
59A	Motor vehicles (passenger cars and trucks)	260,164		0.00	0.00
59B	Truck and bus bodies, trailers, and motor vehicle	148,382	72	0.05	0.02
60	Aircraft parts	127,044		0.00	0.00
61	Other transportation equipment	48,489		0.00	0.00
62	Scientific and controlling instruments	134,192	39	0.03	0.01
63	Ophthalmic and photographic equipment	21,812	135	0.62	0.03
64	Miscellaneous manufacturing	51,756	212	0.41	0.05
65A	Railroads, and related services	81,841	377	0.46	0.10
65B	Motor freight transportation and warehousing	245,876	537	0.22	0.14
65C	Water transportation	40,925	40	0.10	0.01
65D	Air transportation	148,915	1,612	1.08	0.41
65E	Pipelines, freight forwarders and related services	41,670	21	0.05	0.01
66	Communications, except radio and TV	384,486	63,517	16.52	16.28
67	Radio and television broadcasting	5,928	272	4.59	0.07
68A	Electric services (utilities)	230,976	1,323	0.57	0.34
68B	Gas production and distribution (utilities)	101,547	184	0.18	0.05
68C	Water and sanitary services	72,083	478	0.66	0.12
69A	Wholesale trade	883,029	3,570	0.40	0.91
69B	Retail trade	796,357	135	0.02	0.03
70A	Finance	761,040	4,304	0.57	1.10
70B	Insurance	356,818	794	0.22	0.20
71A	Owner-occupied dwellings	673,525		0.00	0.00
71B	Real estate and royalties	855,883	8,016	0.94	2.05
72A	Hotels and lodging places	88,331	1,390	1.57	0.36
72B	Personal and repair services	134,522	3,021	2.25	0.77
73A	Computer and data processing services	419,702	6,835	1.63	1.75
73B	Legal engineering accounting and related services	397,290	15,886	4.00	4.07
73C	Other businesses and professional services	653,498	11,515	1.76	2.95
73D	Advertising	213,214	7,402	3.47	1.90
74	Eating and drinking places	394,950	1,256	0.32	0.32
75	Automobile repair and services	282,793	2,697	0.95	0.69
76	Amusements	216,302	6,044	2.79	1.55
77A	Health Services	798,018		0.00	0.00
77B	Educational and social services, and membership	345,272	474	0.14	0.12
78	Federal government enterprises	79,082	1,424	1.80	0.36
79	State and local government enterprises	46,513	148	0.32	0.04
82	General government industry	1,004,347		0.00	0.00
84	Household industry	13,111		0.00	0.00
	Total Sales	16,277,252	390,265	2.40	100.00
	Value Added	9,281,532	200,065	2.16	51.26

### **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. According to BLS, 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 shows three monthly consumer price indices that were first published in 1998. A long distance service index was created using the existing information collected for the interstate and intrastate toll indices. An index for cellular telephone service was created and the previous "telephone services" index was 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.

## **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 3.3 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](http://www.bls.gov) on the Internet.

## **C. Additional Sources of Information on Price Indices**

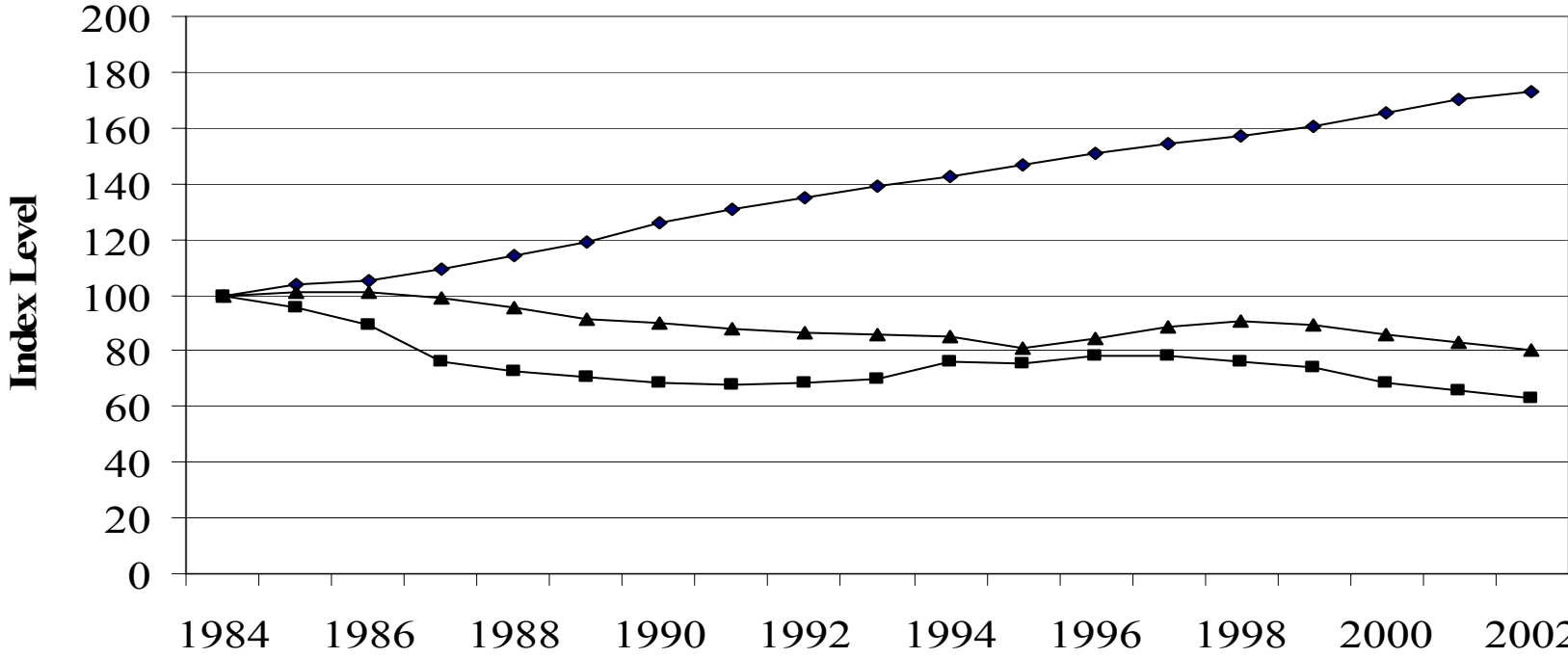
The BLS maintains current and complete access to all of the price indices at [stats.bls.gov](http://stats.bls.gov) on the Internet. Visitors can find documentation on the construction of the indices there as well.

**Table 3.1**  
**Changes in the Consumer Price Indices Since 1980**  
**( Percent Change from December of the Previous Year to December of the Year Shown )**

	All Goods and Services	Telephone Services		Local Services		Interstate Toll Service		Intrastate Toll Service		Cellular Telephone Service	
			Inflation Adjusted		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%	2.7%	-1.2%	4.2%	0.3%		
1983	3.8%	3.6%	-0.2%	3.1%	-0.6%	1.4%	-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%	0.2%	-0.7%	-3.9%	-1.6%	-4.1%	-11.6%	-13.9%
2000	3.4%	-2.3%	-5.5%	5.5%	2.1%	-11.2%	-12.2%	-6.0%	-9.1%	-12.3%	-15.2%
2001	1.6%	1.3%	-0.2%	4.5%	2.9%	-2.0%	-3.3%	-1.7%	-3.2%	-5.5%	-6.9%
2002	2.4%	0.2%	-2.1%	5.3%	2.9%	-5.9%	-8.2%	-6.1%	-3.2%	0.3%	-2.0%

# Chart 1

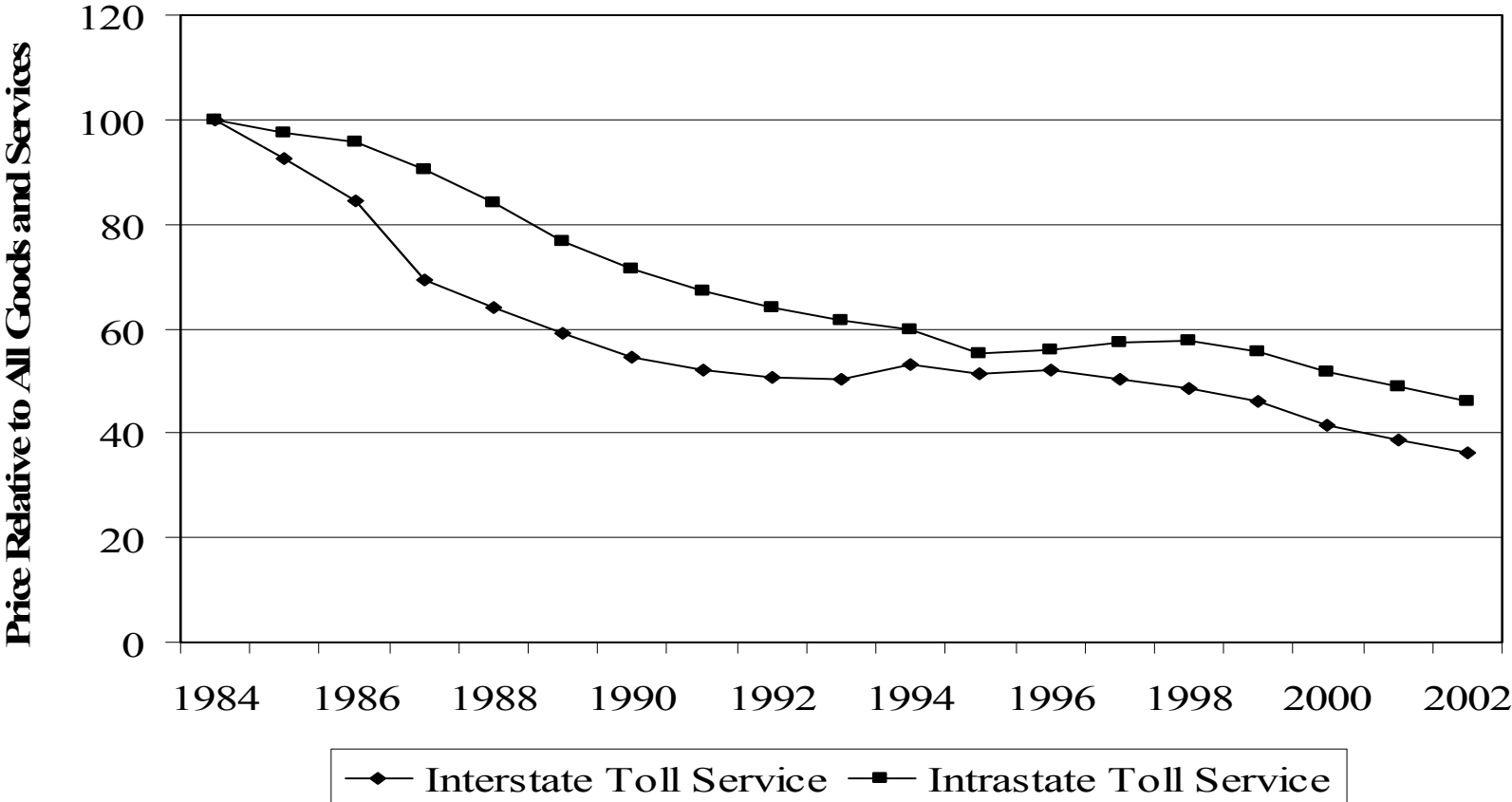
## Consumer Price Indices



—◆— All Goods and Services    —■— Interstate Toll Service    —▲— Intrastate Toll Service

# Chart 2

**Consumer Price Indices  
(Adjusted for Inflation)**





**Table 3.2**  
**Consumer Price Indices**  
**(December 1997 = 100)**

		<b>Telephone Services</b>	<b>Local Telephone Service</b>	<b>Long Distance Charges</b>	<b>Interstate Toll Service</b>	<b>Intrastate Toll Service</b>	<b>Cellular Telephone Services</b>
<b>BLS Series ID</b>		CUUR0000SEED	CUUR0000SEED01	CUUR0000SEED02	CUUR0000SS27051	CUUR0000SS27061	CUUR0000SEED03
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	105.8	90.6	89.0	95.0	76.8
	July	98.2	107.3	91.3	89.8	95.7	74.9
	August	98.9	109.5	90.7	89.2	95.1	73.7
	September	97.0	108.5	87.9	86.2	92.0	72.8
	October	98.3	109.8	89.4	87.9	92.9	73.0
	November	97.5	110.3	87.2	85.0	91.9	72.9
	December	98.4	110.0	89.5	87.5	93.9	71.1
2001	January	98.8	110.5	89.9	88.0	94.2	68.9
	February	98.7	110.7	89.5	87.6	93.7	68.9
	March	99.4	110.9	90.7	89.0	94.5	68.7
	April	99.0	111.9	89.1	87.2	93.1	68.8
	May	98.7	112.1	88.2	86.2	92.6	68.5
	June	99.0	112.3	88.7	86.7	93.0	68.1
	July	99.6	113.2	88.9	86.8	93.0	68.6
	August	99.6	113.9	88.5	86.4	92.7	68.1
	September	99.2	114.1	87.6	85.5	92.0	67.2
	October	99.9	114.6	88.5	86.4	92.9	67.1
	November	99.6	114.8	87.6	85.5	92.2	67.5
	December	99.7	114.9	87.9	85.8	92.3	67.2
2002	January	100.3	121.2	88.2	86.2	92.6	67.5
	February	100.3	116.1	87.9	85.8	92.6	67.5
	March	99.1	114.1	87.0	85.0	91.6	67.5
	April	98.2	114.0	85.1	82.7	90.1	67.6
	May	99.3	116.8	85.2	82.6	90.4	66.7
	June	99.2	116.9	85.0	82.4	90.1	66.6
	July	99.5	118.7	84.0	81.3	89.1	67.0
	August	100.6	120.2	84.7	82.6	89.1	67.8
	September	100.1	120.4	83.7	81.4	88.2	67.5
	October	99.9	120.6	83.0	80.7	87.5	67.9
	November	99.8	120.8	82.7	80.7	87.0	67.5
	December	99.9	121.0	82.6	80.7	86.7	67.4

Note: Figures for local telephone service, interstate toll service, and intrastate toll service after May, 2000 are converted from 1982-1984 base index series reported by the Bureau of Labor Statistics. Historical data on these series based upon the 1982-1984 index for January, 1972 through May, 2000 can be found in the Industry Analysis and Technology Division, Wireline Competition Bureau, *Reference Book of Rates, Price Indices, and Household Expenditures for Telephone Service* (July 2002).

**Table 3.3**  
**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	90.1	102.9	104.5	100.8	104.3	103.1	104.8
November	108.2	90.1	102.9	104.5	100.8	104.3	103.1	104.8
December	107.5	89.2	102.9	104.5	100.8	104.3	103.1	104.8
2002 January	107.5	88.4	103.4	105.2	101.0	104.3	103.1	104.8
February	107.7	88.0	103.4	105.2	101.0	104.3	103.1	104.8
March	108.4	87.9	103.4	105.3	101.0	104.3	103.1	104.8
April	108.9	87.5	103.4	105.4	101.0	104.3	103.1	104.8
May	108.6	87.8	103.4	105.3	101.0	104.3	103.1	104.8
June	109.0	87.7	103.5	105.5	101.1	104.3	103.1	104.8
July	109.0	87.4	104.0	106.1	101.1	104.3	112.3	119.5
August	108.9	87.8	104.0	106.1	101.2	104.3	112.3	119.5
September	109.5	87.7	104.0	106.2	101.1	103.9	112.6	119.9
October	110.7	85.5	104.0	106.2	101.1	103.9	112.6	119.9
November*	109.9	86.3	104.0	106.1	101.2	104.3	112.6	119.9
December*	109.4	85.9	104.0	106.1	101.2	104.3	112.6	119.9

\* Subject to revision.

**Table 3.3**  
**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	102.2	99.9	107.0	85.1	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	79.2	88.4	94.9	92.2	49.7	68.2	80.5
November	100.0	79.1	89.0	95.5	94.7	45.6	67.4	77.6
December	100.0	77.4	88.2	96.0	92.4	44.5	64.6	74.6
2002 January	100.0	75.7	86.7	95.4	89.1	43.9	62.7	72.7
February	100.0	75.0	85.2	95.8	85.4	42.4	62.8	73.3
March	100.0	74.6	84.5	95.6	84.8	40.2	62.8	73.6
April	100.0	73.8	83.9	95.3	82.9	41.2	61.9	73.4
May	100.0	74.5	83.5	95.3	82.1	40.6	63.7	73.7
June	100.0	74.2	83.3	95.1	81.3	41.6	63.3	74.3
July	100.0	73.3	83.1	94.7	80.9	42.1	61.5	72.1
August	100.0	74.1	84.1	96.9	81.5	42.3	62.0	72.4
September	100.0	73.8	83.0	96.9	78.8	41.4	62.8	72.8
October	100.0	69.7	77.1	96.8	63.6	39.4	60.7	71.1
November*	100.0	71.2	80.7	96.3	74.6	37.8	59.8	69.3
December*	100.0	70.4	80.6	96.0	74.8	37.8	58.3	68.6

\* Subject to revision.

**Table 3.3**  
**Producer Price Indices - Continued**  
**(June 1995 = 100)**

	<b>Outbound Business Switched Access Toll Service</b>	<b>Intrastate Business Switched Access Toll Service, Outbound</b>	<b>Interstate Business Switched Access Toll Service, Outbound</b>	<b>International Business Switched Access Toll Service, Outbound</b>	<b>Inbound Business Switched Access Toll Service</b>	<b>Intrastate Business Switched Access Toll Service, Inbound</b>	<b>Interstate Business Switched Access Toll Service, Inbound</b>	<b>International Business Switched Access Toll Service, Inbound</b>
<b>BLS Series ID</b>	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	95.4	77.6	48.9	78.6	66.8	70.1	45.9
November	80.2	96.7	70.8	53.5	73.2	62.0	60.2	45.4
December	74.6	93.4	60.7	51.3	74.5	56.5	66.9	40.4
2002 January	72.6	93.3	56.2	48.9	72.7	60.8	64.8	37.4
February	72.3	93.3	55.1	49.3	75.1	62.6	64.7	37.9
March	73.3	93.1	57.4	50.9	74.1	63.2	61.9	39.8
April	72.7	92.8	54.5	53.9	74.7	60.7	65.2	36.4
May	72.4	91.7	49.7	64.2	76.1	63.3	66.2	41.0
June	72.9	92.1	52.9	61.1	76.7	62.5	67.0	41.0
July	70.5	91.9	49.4	53.4	74.8	63.2	63.5	39.4
August	69.3	91.8	48.7	48.4	77.6	64.7	68.2	42.1
September	69.7	91.8	49.0	50.2	78.0	64.9	67.6	55.1
October	68.3	91.4	48.9	43.0	75.9	62.6	64.0	58.4
November*	66.7	91.0	45.3	42.2	73.8	62.9	60.8	45.7
December*	65.0	90.5	41.6	40.9	74.7	60.2	65.6	36.6

\* Subject to revision.

**Table 3.3**  
**Producer Price Indices - Continued**  
**(June 1995 = 100)**

	<b>Business Special Access Switched Toll Service, except Private Lines</b>	<b>Outbound Business Special Access Switched Toll Service</b>	<b>Intrastate Business Special Access Switched Toll Service, Outbound</b>	<b>Interstate Business Special Access Switched Toll Service, Outbound</b>	<b>International Business Special Access Switched Toll Service, Outbound</b>	<b>Inbound Business Special Access Switched Toll Service</b>	<b>Intrastate Business Special Access Switched Toll Service, Inbound</b>
<b>BLS Series ID</b>	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	47.4	40.7	49.7	33.6	34.1	59.6	53.3
November	50.2	41.9	29.5	32.6	47.3	65.0	60.8
December	47.7	40.2	47.8	30.0	38.8	61.3	53.4
2002 January	46.0	36.9	47.2	25.7	34.9	62.8	62.8
February	45.3	39.1	48.3	29.4	36.1	56.2	45.7
March	44.9	38.9	52.2	28.3	35.5	55.3	48.1
April	42.8	36.8	53.8	25.0	33.1	53.5	45.4
May	46.7	39.4	50.0	30.2	34.8	59.9	57.0
June	45.0	38.7	49.0	29.5	34.2	56.2	51.9
July	43.9	38.1	49.7	27.7	34.5	54.2	48.5
August	44.8	38.4	43.7	29.4	35.0	56.2	51.2
September	45.0	40.0	52.1	30.4	35.8	56.3	50.5
October	45.9	36.8	45.8	27.0	33.0	54.8	47.2
November*	43.3	37.9	47.7	28.6	33.3	54.5	46.3
December*	43.9	35.4	43.1	24.3	33.5	51.6	46.6

\* Subject to revision.

**Table 3.3**  
**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	85.7	100.6	100.6	101.7	101.9	101.5	101.8	100.0
November	63.0	80.7	100.3	100.6	101.7	101.9	101.7	102.1	100.0
December	58.3	70.4	101.6	100.6	101.7	101.9	101.7	102.0	100.0
2002 January	58.4	78.6	102.4	100.6	101.7	101.9	101.7	102.0	100.0
February	50.6	76.0	100.5	100.6	101.9	102.1	101.7	102.0	100.0
March	48.4	77.2	99.2	100.6	101.9	102.1	101.7	102.0	100.0
April	45.6	75.6	99.2	100.7	102.2	102.4	101.7	102.0	100.0
May	54.5	74.4	99.9	100.8	102.3	102.6	101.6	102.0	100.0
June	48.9	74.6	100.1	100.9	102.5	102.9	101.6	102.0	100.0
July	46.1	74.2	99.5	100.9	102.7	103.1	101.6	102.0	100.0
August	49.1	75.6	99.6	100.9	102.7	103.1	101.6	102.0	100.0
September	49.6	75.2	99.5	100.9	102.7	103.1	101.6	102.0	100.0
October	47.6	73.5	95.9	101.3	103.7	104.2	101.9	102.0	100.0
November*	47.3	74.5	96.4	100.9	102.8	103.1	101.9	102.3	100.0
December*	41.6	74.0	93.9	100.9	102.8	103.1	102.0	102.4	100.0

\* Subject to revision.

## Customer Response

Publication: *Reference Book of Rates, Price Indices, and Household Expenditures for Telephone Service, 2003.*

You can help us provide the best possible information to the public by completing this form and returning it to the Industry Analysis & 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="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data presentation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Timeliness of data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Completeness of data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Text clarity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Completeness of text	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

3. Overall, how do you rate this report?

	Excellent	Good	Satisfactory	Poor	No opinion
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

4. How can this report be improved?

5. May we contact you to discuss possible improvements?

Name:

Telephone #:

Questions? Contact Paul Zimmerman at 202-418-7285 or email <a href="mailto:pzimmerm@fcc.gov">pzimmerm@fcc.gov</a>		
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