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This is an unofficial announcement of Commission action. Release of the full text of a Commission order constitutes official action. See MCI v. FCC, 515 F.2d 385 (D.C. Cir. 1975).

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Report No. DC-1193

ACTION IN DOCKET CASE

July 1, 1988

COMPREHENSIVE MONITORING REPORT ON TELEPHONE SERVICE RELEASED  
(CC DOCKET 87-339)

The Federal-State Joint Board staff yesterday released the fourth in a series of quarterly reports to be issued over a five year period that are intended to assist telecommunications policymakers and the general public in monitoring the impact of two major decisions adopted by the FCC during 1987.

In the first of the decisions these reports are designed to monitor, the Commission adopted the recommendations of the Federal-State Joint Board in CC Docket 80-286 to increase subscriber line charges (SLCs), expand the federal lifeline assistance program, retarget the formula for high cost assistance, and modify the common line pooling system.

In the second decision, the Commission adopted the recommendations of the Joint Board in CC Docket 86-297 to simplify jurisdictional separations rules and conform them to the recently revised Uniform System of Accounts.

The reports present current data in each of the eight subject categories selected for monitoring: (1) subscribership and penetration levels; (2) lifeline assistance plans, including both the SLC waiver and Link-Up programs; (3) costs and high cost assistance; (4) network usage and growth; (5) rates and revenues; (6) bypass; (7) pooling and rate deaveraging; and (8) jurisdictional shifts in revenue requirements.

This is an open docket which allows materials, comments and studies to be submitted at any time. The comments that have been received since the last report are summarized in each section of this report, insofar as they relate to that section. Future reports will include a list and summary of comments received since the previous report.

This report differs from the three preceding it in that it summarizes the first year of the monitoring program and includes most of the data that have appeared in previous reports. Since this report will provide data for the Joint Board's 90-day study and review of the subscriber line charge, the staff has made it as comprehensive as possible. The report invites interested parties to submit comments by August 29 and reply comments by September 28.

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Copies of the report are available from the Commission's duplicating contractor, ITS, Inc., 2100 M St., NW, Washington, DC 20037; (202) 857-3800.

- FCC -

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Monitoring Report

CC Docket No. 87-339

June 1988

Prepared by the Staff of the

Federal-State Joint Board

In CC Docket No. 80-286

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Monitoring Report  
CC Docket No. 87-339  
June 1988

Introduction and Summary

This is the fourth report of a series of quarterly reports being issued over a five-year period that is intended to help telecommunications policymakers and the general public monitor the impact of two major decisions adopted by the Federal Communications Commission (Commission) during 1987. In the first of these decisions, the Commission adopted the recommendations of the Federal-State Joint Board in CC Docket No. 80-286 to increase subscriber line charges, expand the federal lifeline assistance program, retarget the formula for high cost assistance, and modify the common line pooling system. In the second decision, the Commission adopted the recommendations of the Federal-State Joint Board in CC Docket No. 86-297 to simplify jurisdictional separations rules and conform those rules to the recently revised Uniform System of Accounts. This report concludes the first year of the monitoring program and includes most of the data that have appeared in previous reports. Since this report will be a key input into the Joint Board's 90-day study and review of the subscriber line charge increases, a special effort has been made to make it as comprehensive as possible.

In an Order released on August 26, 1987, the Commission acted upon the recommendations of the Joint Boards in CC Docket Nos. 80-286 and 86-297, and established a program to monitor the impact of the two decisions noted above. This report presents currently available data in each of the eight subject categories selected for monitoring, which are: (1) subscribership and penetration levels; (2) lifeline assistance plans, including both the subscriber line charge waiver and Link-Up programs; (3) costs and high cost assistance; (4) network usage and growth; (5) rates and revenues; (6) bypass; (7) pooling and rate deaveraging; and (8) jurisdictional shifts in revenue requirements.

The eight monitoring categories, and much of the text describing those monitoring categories, remain unchanged from our previous monitoring report. However, since our March monitoring report, new information in several of the areas we are monitoring has become available. For example, the March 1988 telephone penetration report from the Bureau of the Census is now available and shows the percentage of households with telephone service is 92.9%, the highest on record. Supplementary disconnect studies have been filed and are summarized herein. Also, bypass studies submitted recently by the eight largest local exchange carrier holding companies contain valuable baseline data and are summarized herein. In addition, this report provides descriptions of recent actions to implement lifeline and Link-Up America programs in the states. Network usage data show substantial increases in traffic growth rates since 1984, when subscriber line charges were

introduced and interstate toll rates started declining. The Consumer Price Index (CPI) and Producer Price Index (PPI) are now available through April 1988. The most recent data show that for the 12 months ending in April 1988, the nation's overall rate of inflation was 3.9% (measured by the CPI for all items). The CPI price of telephone service declined by 0.1% during the same 12-month period. The CPI for telephone services is based on a market basket of services purchased by typical consumers and thus includes both local and long distance service. More specifically, the overall CPI for telephone service is composed of three subindexes. During the most recent 12 months, the local service component (including subscriber line charges) increased at an annual rate of 2.7%, while the price of interstate toll calls fell 6.4% and the price of state toll calls fell 3.2%.

The data and comments in this report and in past and future reports will serve as the foundation for the review to be undertaken by members of the Joint Board and the FCC in CC Docket No. 80-286 prior to the scheduled implementation of subscriber line charge increases in December 1988 and April 1989. We emphasize that our monitoring efforts are being conducted in the context of an open docket (CC Docket No. 87-339) which allows materials, comments, and studies to be submitted at any time. The comments that have been received since the last report are summarized in each section of this report, insofar as they relate to that section. We plan to continue to include in future reports a list and summary of comments that have been received in the docket in the period since the previous report. To help the Joint Board and the FCC study and review the effects of their decisions, we ask that during the next 90 days interested parties review the information in the monitoring reports and submit comments. This 90-day period will be divided into 60 days for comments, due by August 29, 1988, and 30 days for reply comments, due by September 28, 1988.

The deadline for submission of information for each future monitoring report is the first day of the month preceding the one which the report is released. Thus, the deadline for March reports is February 1, for June reports May 1, for September reports August 1, and for December reports November 1. Despite this deadline, the staff intends to report all filings made in the docket at the earliest possible time. In this report we have been able to incorporate all information received prior to May 24, 1988. While materials filed after the formal cutoff date will continue to be included whenever possible, filings received after the deadline will usually appear in the next report. For ease of public reference, we ask that parties submitting materials for the docket provide a duplicate copy to the Public Reference Room of the Common Carrier Bureau's Industry Analysis Division,<sup>1</sup> where copies of all materials filed in the docket are available

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## 1. Subscribership and Penetration Levels

The number and percentage of households that have telephone service represent the most basic measures of the extent of universal service. Continuing analysis of telephone penetration statistics allows us to examine trends in households' decisions to maintain, acquire or drop telephone service due to Commission actions and other factors such as general trends in employment levels and the strength of the economy. Attachment I presents comprehensive data on telephone penetration statistics collected by the Bureau of the Census under contract with the FCC. Along with telephone penetration statistics for the United States and each of the states from November 1983 to March 1988, data are provided on penetration based on various demographic characteristics. Attachment II presents a summary of the first group of disconnect studies that have been submitted, as well as other recent studies of telephone subscribership.

Prior to the 1980s, precise measurements of telephone subscribership received little attention. The most widely used measure of telephone availability is the percentage of households with telephone service --sometimes called a measure of telephone "penetration". This statistic, however, can be subject to large measurement errors. Traditionally, telephone penetration was measured by dividing the number of residential telephone lines by the number of households. With some households adding second telephone lines and with an increasing number of second homes, measures of penetration based on the number of residential lines became subject to a large margin of error.

By 1980, the traditional penetration measure (residential lines divided by the number of households) reached 96% while the number of households reporting that they had telephones in the 1980 census was slightly less than 93%. Recognizing the need for precise periodic measurements of subscribership, the FCC requested that the Bureau of the Census include questions on telephones as part of its Current Population Survey (CPS), which monitors demographic trends between the decennial censuses. This survey is a staggered panel survey in which the people residing at particular addresses are included for four consecutive months in one year and the same four months in the following year. Use of the CPS has several advantages -- it is conducted every month by an independent and expert agency, the sample is large and the questions are consistent. Thus, changes in the results can be compared over time with a great deal of confidence.

Unfortunately, the results of the CPS cannot be directly compared with the penetration figures contained in the 1980 decennial census. This is because of differences in the sampling methodologies and because of differences in the context in which the questions were asked.

The specific questions asked in the CPS are: "Is there a telephone in this house/apartment?" and, if the answer to the first question is "no",

"Is there a telephone elsewhere on which people in this household can be called?" Although the survey is conducted every month, not all questions are asked every month. The telephone questions are asked once every four months, in the month that a household is first included in the sample and in the month that the household reenters the sample a year later. Since the sample is staggered, the information that is reported for any given month actually reflects responses over the preceding four months. Aggregated summaries of the responses are reported to the FCC, based on the surveys conducted through March, July, and November of each year. These reports are generally released approximately two-months after the final month of each four-month survey period.

Census Bureau figures for March 1988, the most recent data available, show that in the past year the percentage of households subscribing to telephone service has increased to the highest level ever reported. As a result of this increase and an increasing number of households, 1.9 million households were added to the nation's telephone system between March 1987 and March 1988.

Attachment I contains eleven tables and two charts presenting penetration statistics broken out for various geographic and demographic characteristics. They are updates of the tables and charts that appeared in the March 1988 monitoring report.

Table 1.1 in Attachment I summarizes the telephone penetration for the United States, combining information on the number of households with the penetration rates. It shows that, for March 1988, 92.9% of all households in the U.S. have a telephone. This is the highest level of penetration since the CPS began collecting penetration data in November 1983. The percentage of households with telephones is up 0.6% from the November 1987 report and up 0.4% from the March 1987 report. The increase from last November is statistically significant and is the largest increase ever reported in a four-month period.

Attachment I also includes figures showing subscribership percentages by state (Table 1.2), by householder's age and race (Table 1.3), by household size (Table 1.4), by family income (Table 1.5), and for individual persons by labor force status (Table 1.6). The data for individual persons (Table 1.6 and Chart 1.2) show that 93.8% of those adults in the civilian noninstitutionalized population have a telephone in their household. This is the highest percentage ever reported by the CPS. This figure is up 0.4% from November 1987 and up 0.2% from March 1987.

Table 1.2 shows the CPS responses for the United States and for each state for the period from November 1983 through November 1987. Because the CPS began collecting this data only in 1983, comparable values are not available prior to November 1983. For each of the surveys, the column headed "Unit" indicates the percentage of households for which the response

to the question of whether they had a telephone was "yes". The column headed "Avail." indicates the percentage of households which responded "yes" to either that question or the question of whether there was a telephone elsewhere at which they could be called. The annual averages are the average of the 3 surveys of the year in question.

Chart 1.1 depicts the nationwide penetration rates for households graphically, with the values taken from the top line of Table 1.2.

Table 1.3 shows the nationwide penetration rates for households by the age and race of the householder. It shows that the penetration rate is lowest for young and non-white households. The penetration rate for the elderly is above the average for all age groups.

Table 1.4 shows the nationwide penetration rates for households by the size of the household and the race of the householder. It shows that penetration is highest for households of 2 to 5 people.

Table 1.5 shows the nationwide penetration rates for households by family income and the race of the householder. It shows a strong positive relationship between income and penetration.

Table 1.6 shows the nationwide penetration rates for all persons at least 16 years old in the civilian noninstitutionalized population by their race and employment status. Since this table is for individuals rather than households, the total penetration rates are different from those in the previous tables. It shows that penetration is lowest among the unemployed.

Chart 1.2 depicts the nationwide penetration rates for individuals graphically, with the values taken from the totals in Table 1.6.

Tables 1.7-1.11 present critical values for determining whether changes in penetration in the earlier Tables are statistically significant. The Census Bureau data are based on a nationwide sample of about 58,000 households. Because a sample is used, the estimates are subject to sampling error. For the nationwide totals, the critical value for determining a significant difference in telephone penetration over time is 0.5% (at the 95% confidence level). For individual states, the amount of sampling variability is much greater. These critical values are shown in Table 1.7 and are relevant because changes less than or equal to the values shown are likely to be due to sampling error and thus cannot be regarded as demonstrating that a change in telephone penetration has occurred. Because there is an overlap of half of the sample from year to year, but no overlap in the sample between surveys that are four months apart, annual changes are less subject to variations in sampling error. Consequently the critical values should be multiplied by .9 when making a comparison for the same month in two consecutive years. When comparing the annual averages, the critical values should be multiplied by 0.5774, since these are based on

three surveys and hence have a lower standard error. Tables 1.8, 1.9, 1.10 and 1.11 show the corresponding critical values for testing for significant differences over time for the penetration rates shown in Tables 1.3, 1.4, 1.5, and 1.6, respectively. In some cases these critical values are very large because the sample sizes are very small for these subcategories, rendering the estimated penetration rates unreliable.

The December 1987 monitoring report presented various tables relating telephone penetration for March 1987 to various household characteristics. They are not reproduced here.

In addition to the CPS reports, the Joint Board asked that all of the seven Regional Bell Operating Companies and GTE voluntarily conduct special disconnect studies and report the results in this docket. We asked that each study involve taking a sample of telephone exchanges from one of the company's study areas and surveying those customers whose service is terminated as to the reason for the termination. We asked that the survey commence as soon as possible so that a benchmark of information would be available for the period prior to the July 1, 1987, subscriber line charge (SLC) increase, to enable us to make a comparison of the effects before and after the increase. We requested that the study continue for at least three months after the initial increase to allow time for customers to react to it. We asked that the exchanges sampled include representation of low income areas, in which any possible effect on subscribership is most likely to occur, as well as medium and high income areas. For those subscribers disconnected during the study period, we requested that the study attempt to determine: (1) whether the termination of service was voluntary or involuntary; (2) the composition of the unpaid bill for involuntary disconnections (e.g., the dollar amounts of SLCs, nonrecurring charges, interstate and intrastate toll charges, basic local service charges, and other recurring charges) as determined from the company's billing records; (3) the type of service subscribed to (e.g., flat rate, measured, lifeline, etc.); and (4) the reason for voluntary disconnections, i.e., whether the reason was economic (such as an increase in telephone bills or a decrease in personal income) or noneconomic (such as death or relocation), as well as the composition of the bills for the preceding three months in the case of voluntary disconnections for economic reasons. We requested that the results of those studies be reported by February 15, 1988. In addition, we requested the designated LECs to update their disconnect studies and report the results by August 31, 1988, and December 31, 1988, so that they may be considered by the Joint Board and the FCC during the study and review period in advance of the December 1, 1988, and April 1, 1989, SLC increases.

The first reports of these studies were submitted in February. Since then, NYNEX and US West have submitted additional information. All of the reports are individually summarized in Attachment II. Some overall observations can be made of common and disparate elements of these reports.

Most customers that are involuntarily disconnected or who disconnect for voluntary economic reasons are above-average users of telephone services and find themselves in a position in which they cannot afford their level of usage. They tend to have higher than average toll usage, are more likely to have flat-rate local service, and are more likely to have purchased discretionary services such as Touch-Tone and Call Waiting than customers who are able to maintain their service. There is no reported evidence that the SLC increase has had an adverse effect on the disconnection rate. Since disconnected customers are generally heavy toll users, the SLC increase for them was generally offset by the accompanying reduction in interstate toll rates. There appears to be seasonality in the disconnect rates, but this seems to be primarily in voluntary disconnects due to moving. Involuntary disconnects do not appear to be very seasonal, although this would be more apparent if future disconnect studies would include the ratio of involuntary disconnects to current customers. In general, it appears that very few customers voluntarily disconnect for economic reasons. One difference worth noting is the report by US West of a high proportion of involuntary disconnects who moved without paying their final bill. Other companies did not report similar behavior. There is a possibility that some of those customers may have been classified as "abandoned service" by other companies. That category was included in the involuntary disconnect group by some companies and in the voluntary disconnect group by others. The characteristics of customers reported by US West who moved without paying seem to be more similar to other involuntary disconnects than to the voluntary disconnects who paid their final bill when they moved. US West's categorization of the involuntary disconnects who moved as "non-economic" appears to be inconsistent with that of other companies.

In addition to the disconnect studies, other telephone subscribership studies have been submitted by the Public Service Commission of the District of Columbia, the Florida Public Service Commission, and the Washington Utilities and Transportation Commission. These are also summarized in Attachment II. The D.C. study is an analysis of penetration data for the District of Columbia, linking declining penetration to increasing local rates. Florida submitted two studies analyzing penetration data in that state. It finds that penetration is price inelastic, but is strongly related to income and demographic factors. The Washington study is a survey of telephone subscribers in the State of Washington. Among other findings, it notes that toll usage is heavier among rural than urban customers, since toll calls are more frequently necessary to obtain essential community services. This finding suggests that the characterization of toll usage as being entirely "discretionary" may be somewhat questionable. It also raises the question of whether there is a significant difference in involuntary and economic disconnects in rural versus urban areas, an issue which has not been addressed in the disconnect studies.



ATTACHMENT I  
CHARTS AND TABLES

TABLE 1.1

## Telephone Penetration in the U.S.

<u>Date</u>	<u>Households</u> (millions)	<u>Households</u> with <u>Telephones</u> (millions)	<u>Percentage</u> with <u>Telephones</u>	<u>Households</u> without <u>Telephones</u> (millions)	<u>Percentage</u> without <u>Telephones</u>
November 1983	85.8	78.4	91.4%	7.4	8.6%
March 1984	86.0	78.9	91.8	7.1	8.2
July 1984	86.6	79.3	91.6	7.3	8.4
November 1984	87.4	79.9	91.4	7.5	8.6
March 1985	87.4	80.2	91.8	7.2	8.2
July 1985	88.2	81.0	91.8	7.2	8.2
November 1985	88.8	81.6	91.9	7.2	8.1
March 1986	89.0	82.1	92.2	6.9	7.8
July 1986	89.5	82.5	92.2	7.0	7.8
November 1986	89.9	83.1	92.4	6.8	7.6
March 1987	90.2	83.4	92.5	6.8	7.5
July 1987	90.7	83.7	92.3	7.0	7.7
November 1987	91.3	84.3	92.3	7.0	7.7
March 1988	91.8	85.3	92.9	6.5	7.1

TABLE 1.2

## PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY NATIONAL TOTAL AND STATES

	1983		1984		JULY		NOVEMBER		1984 ANNUAL AVERAGE		1985 MARCH	
	NOVEMBER		MARCH									
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
UNITED STATES	91.4	93.7	91.8	93.6	91.6	93.8	91.4	93.6	91.6	93.7	91.8	93.7
ALABAMA	87.9	90.2	88.9	90.4	90.3	91.8	86.1	89.3	88.4	90.5	88.4	90.3
ALASKA	83.8	88.8	85.8	88.7	87.6	90.0	86.1	88.4	86.5	89.0	89.4	91.7
ARIZONA	88.8	90.7	89.6	90.6	84.2	86.8	87.0	90.7	86.9	89.4	87.0	89.4
ARKANSAS	88.2	91.4	87.1	90.1	87.8	92.6	84.8	89.2	86.6	90.6	85.7	89.8
CALIFORNIA	91.7	93.5	92.8	93.8	92.2	93.8	92.4	93.8	92.5	93.8	93.0	94.1
COLORADO	94.4	96.5	94.7	96.4	91.9	94.4	93.2	95.2	93.2	95.4	96.2	97.7
CONNECTICUT	95.5	98.4	94.5	96.2	96.0	97.6	96.0	97.2	95.5	97.0	94.9	97.2
DELAWARE	95.0	96.6	95.4	96.3	93.7	95.1	93.7	95.8	94.3	95.7	96.6	97.4
DIST OF COL	94.7	95.6	96.1	97.5	93.5	95.4	95.1	96.0	94.9	96.3	91.6	93.5
FLORIDA	85.5	89.9	89.9	92.4	89.6	91.4	86.6	90.1	88.7	91.3	88.8	90.9
GEORGIA	88.9	92.1	85.8	88.2	86.8	90.5	86.0	88.7	86.2	89.1	89.0	91.1
HAWAII	94.6	96.4	93.6	94.2	95.1	96.3	91.9	94.3	93.5	94.9	93.3	95.1
IDAHO	89.5	92.2	90.4	91.8	91.0	91.8	90.8	91.4	90.7	91.7	91.7	93.3
ILLINDIS	95.0	95.9	95.7	96.8	93.6	95.0	93.2	95.5	94.2	95.8	94.4	95.6
INDIANA	90.3	93.5	91.8	93.2	91.2	93.3	91.7	94.4	91.6	93.6	91.7	94.8
IOWA	95.4	97.2	95.7	96.2	97.5	98.7	95.4	97.2	96.2	97.4	96.0	96.9
KANSAS	94.9	96.7	94.4	95.4	95.1	96.4	93.5	95.6	94.3	95.8	94.8	97.1
KENTUCKY	86.9	90.9	87.1	90.6	88.3	91.2	89.1	91.1	88.1	91.0	89.0	92.1
LOUISIANA	88.9	93.3	89.8	92.2	88.7	93.1	90.5	92.7	89.7	92.7	90.5	93.5
MAINE	90.7	93.1	94.4	95.7	92.1	94.9	93.9	95.2	93.4	95.3	94.2	95.3
MARYLAND	96.3	96.7	96.1	96.9	94.9	95.7	96.1	96.8	95.7	96.5	95.2	96.2
MASSACHUSETTS	94.3	95.9	95.7	96.5	96.5	97.4	95.4	96.9	95.9	96.9	95.6	96.7
MICHIGAN	93.8	94.9	93.1	95.0	93.0	94.5	92.4	94.0	92.8	94.5	92.6	94.1
MINNESOTA	96.4	97.5	95.8	97.4	96.6	97.2	95.0	96.6	95.8	97.1	97.1	98.2
MISSISSIPPI	82.4	89.1	81.8	86.1	83.1	89.8	82.2	86.6	82.4	87.5	81.6	87.0
MISSOURI	92.1	94.1	92.1	94.0	91.3	93.2	91.0	93.9	91.5	93.7	92.6	94.2
MONTANA	92.8	94.5	90.2	93.9	91.6	94.5	91.1	93.8	91.0	94.0	92.2	95.2
NEBRASKA	94.0	95.3	96.4	97.2	94.8	95.8	95.9	97.3	95.7	96.8	96.4	96.9
NEVADA	89.4	91.9	93.0	95.6	88.2	89.8	89.8	93.0	90.4	92.8	91.3	93.6
NEW HAMPSHIRE	95.0	96.9	94.7	96.3	95.9	96.4	92.4	94.7	94.3	95.8	93.4	94.4
NEW JERSEY	94.1	95.1	93.5	95.0	96.0	96.9	94.8	96.3	94.8	96.1	95.1	96.5
NEW MEXICO	85.3	90.9	81.0	85.8	81.2	86.3	84.0	88.8	82.0	87.0	85.0	88.0
NEW YORK	90.8	92.2	91.2	92.5	92.3	94.5	91.8	93.6	91.8	93.6	92.0	93.1
N. CAROLINA	89.3	92.9	88.5	92.2	87.9	91.4	88.5	92.2	88.3	91.9	89.8	92.2
N. DAKOTA	95.1	97.3	94.1	96.3	95.2	97.7	94.6	96.3	94.6	96.8	95.0	96.1
OHIO	92.2	93.9	93.2	94.9	93.4	95.1	90.8	93.3	92.4	94.4	91.7	94.7
OKLAHOMA	91.5	93.7	91.1	92.5	89.4	92.3	90.3	92.6	90.3	92.5	90.3	92.7
OREGON	91.2	93.5	91.1	92.6	92.2	93.5	88.5	90.9	90.6	92.3	89.2	91.0
PENNSYLVANIA	95.1	97.1	94.4	96.0	95.1	96.4	95.1	97.2	94.9	96.5	94.2	95.5
RHODE ISLAND	93.3	94.6	94.2	95.1	92.7	93.9	93.9	95.0	93.6	94.6	93.4	94.4
S. CAROLINA	81.8	84.9	84.5	87.9	83.6	88.1	82.9	87.1	83.7	87.7	87.2	90.6
S. DAKOTA	92.7	95.0	92.8	94.3	92.8	95.2	94.0	95.2	93.2	94.9	92.4	94.5
TENNESSEE	87.6	92.6	87.0	90.3	88.3	92.0	90.1	93.8	88.5	92.0	87.7	90.0
TEXAS	89.0	92.6	88.2	91.7	87.6	91.0	89.4	92.3	88.4	91.6	87.8	91.5
UTAH	90.3	92.2	92.2	94.1	93.2	94.6	92.2	93.9	92.5	94.2	95.3	95.7
VERMONT	92.7	94.3	91.2	93.4	93.1	94.6	92.5	94.0	92.3	94.0	90.6	91.8
VIRGINIA	93.1	94.7	93.2	95.1	93.0	95.6	92.9	94.6	93.1	95.1	92.8	94.5
WASHINGTON	92.5	93.7	92.7	94.3	93.6	95.2	92.7	93.6	93.0	94.4	92.7	94.4
W. VIRGINIA	88.1	91.1	87.2	93.5	86.5	90.0	89.4	92.1	87.7	91.8	88.1	91.4
WISCONSIN	94.8	96.1	95.9	96.3	93.5	96.0	96.3	97.4	95.2	96.6	93.8	95.7
WYOHING	89.7	93.3	89.2	92.3	88.4	91.2	92.1	95.0	89.9	92.8	91.7	94.2

TABLE 1.2 (cont.)

	JULY		NOVEMBER		1985 ANNUAL AVERAGE		1986 MARCH		JULY		NOVEMBER	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
	UNITED STATES	91.8	93.9	91.9	94.0	91.8	93.9	92.2	93.9	92.2	94.0	92.4
ALABAMA	89.1	90.9	89.9	91.8	89.1	91.0	89.1	90.6	89.5	91.3	87.5	89.4
ALASKA	86.4	88.0	85.7	88.7	87.1	89.5	88.4	91.0	83.5	86.1	87.3	89.6
ARIZONA	88.0	89.8	86.9	89.8	87.3	89.6	90.8	91.8	89.8	91.4	87.6	89.4
ARKANSAS	86.6	90.8	85.5	89.2	85.9	89.9	85.8	89.4	85.1	89.8	88.3	92.1
CALIFORNIA	92.7	94.1	93.0	94.1	92.9	94.1	93.3	94.1	92.3	93.2	93.4	94.8
COLORADO	93.7	95.9	93.1	95.0	94.3	96.2	95.0	97.1	93.2	94.8	94.2	96.0
CONNECTICUT	96.5	97.6	97.1	98.0	96.2	97.6	97.3	97.7	96.8	98.3	97.0	97.8
DELAWARE	94.4	96.1	93.4	95.2	94.8	96.2	95.2	97.0	93.5	95.4	95.3	96.5
DIST OF COL	93.6	94.9	95.6	97.4	93.6	95.2	91.9	93.3	93.6	94.8	91.1	93.9
FLORIDA	89.5	91.6	90.3	92.7	89.6	91.7	89.1	91.3	89.9	92.4	91.1	93.8
GEORGIA	88.4	90.2	85.4	88.0	87.6	89.7	88.2	91.4	89.1	91.4	88.0	90.2
HAWAII	92.7	95.8	93.1	94.2	93.0	95.0	94.3	96.0	92.8	94.0	89.6	93.2
IDAHO	91.1	92.7	92.6	93.5	91.8	93.1	92.1	93.6	89.8	91.8	92.7	93.7
ILLINOIS	93.4	95.3	93.3	95.2	93.7	95.3	93.4	94.7	94.4	95.5	93.2	95.5
INDIANA	92.8	95.0	92.4	94.3	92.3	94.7	92.9	94.7	91.4	93.8	92.4	94.5
IOWA	94.6	96.4	94.7	95.9	95.1	96.4	95.5	96.6	96.0	96.9	95.6	96.1
KANSAS	93.9	95.9	94.4	96.2	94.4	96.4	93.9	95.4	94.5	96.0	95.4	96.9
KENTUCKY	86.8	90.3	86.4	90.8	87.4	91.1	87.3	90.3	85.3	90.0	86.1	91.6
LOUISIANA	90.3	94.0	90.2	93.4	90.3	93.6	90.5	93.0	89.7	93.2	85.9	89.6
MAINE	93.8	95.2	94.2	96.2	94.0	95.6	92.8	95.5	93.0	94.8	94.3	95.9
MARYLAND	96.2	98.1	95.3	95.9	95.5	96.7	95.7	96.6	95.6	96.8	95.9	96.7
MASSACHUSETTS	95.0	95.9	94.8	96.5	95.2	96.3	96.3	97.2	96.5	97.1	96.4	97.1
MICHIGAN	93.5	94.7	92.6	93.7	92.9	94.2	93.7	94.5	93.3	94.7	93.4	94.4
MINNESOTA	96.8	97.4	95.3	96.7	96.4	97.4	95.6	97.0	96.4	96.9	96.7	97.9
MISSISSIPPI	80.1	88.7	81.0	87.0	80.9	87.6	81.9	87.5	76.9	86.6	81.6	87.8
MISSOURI	92.9	95.2	92.0	95.0	92.5	94.8	93.0	93.8	94.1	95.8	93.1	95.0
MONTANA	90.0	91.4	92.0	95.1	91.4	93.9	93.0	95.1	89.1	92.6	90.6	93.5
NEBRASKA	95.0	96.3	94.6	96.7	95.3	96.6	96.0	97.2	95.0	96.1	95.8	97.1
NEVADA	90.3	92.8	94.0	95.1	91.8	93.8	91.0	92.7	92.9	93.6	93.1	94.8
NEW HAMPSHIRE	93.0	94.2	93.4	95.4	93.2	94.6	93.9	95.0	93.4	94.0	94.6	96.1
NEW JERSEY	95.4	96.5	94.1	95.5	94.9	96.2	94.2	95.6	96.0	96.9	94.4	96.0
NEW MEXICO	85.1	88.8	82.1	87.8	84.1	88.2	86.0	89.4	85.2	88.9	84.2	89.1
NEW YORK	91.2	93.1	93.0	94.5	92.1	93.6	92.9	93.9	93.7	94.7	93.0	94.3
N. CAROLINA	89.2	92.7	89.2	92.2	89.4	92.4	90.0	92.1	90.6	93.0	90.1	92.5
N. DAKOTA	95.1	96.7	95.7	97.4	95.3	96.7	95.0	95.5	95.6	97.2	97.9	98.2
OHIO	93.3	95.1	91.7	93.8	92.2	94.5	93.6	95.1	92.7	94.0	92.8	94.1
OKLAHOMA	87.0	89.6	89.2	92.6	88.8	91.7	89.7	92.7	91.1	93.0	90.5	93.4
OREGON	91.0	93.2	90.6	92.0	90.3	92.1	92.6	94.6	92.6	94.5	92.9	93.6
PENNSYLVANIA	95.8	96.8	95.8	97.5	95.3	96.6	95.9	97.4	96.3	97.1	96.7	97.7
RHODE ISLAND	95.1	96.4	93.6	94.5	94.0	95.1	95.0	95.8	97.1	97.7	95.5	96.8
S. CAROLINA	85.6	90.5	87.6	90.4	86.8	90.5	88.8	91.6	83.8	88.8	86.3	91.4
S. DAKOTA	93.1	94.2	92.2	94.9	92.6	94.5	93.4	94.2	91.5	93.3	92.9	95.1
TENNESSEE	88.3	91.8	91.9	95.9	89.3	92.6	89.7	92.9	88.5	93.3	90.8	94.8
TEXAS	87.7	91.6	88.9	91.8	88.1	91.6	87.7	90.7	89.4	92.1	89.5	92.8
UTAH	93.3	95.1	93.2	94.5	93.9	95.1	93.8	94.5	91.8	93.0	93.3	94.3
VERMONT	93.0	94.4	95.1	96.2	92.9	94.1	93.7	94.9	93.4	95.2	94.4	96.5
VIRGINIA	90.4	92.3	92.0	94.5	91.7	93.8	92.0	93.7	91.3	93.7	92.9	94.9
WASHINGTON	96.1	97.5	95.3	96.6	94.7	96.2	92.2	94.6	96.6	97.7	95.2	96.4
W. VIRGINIA	88.7	92.8	86.1	90.8	87.6	91.7	90.7	93.7	87.4	91.6	86.5	90.3
WISCONSIN	94.4	95.5	94.1	95.0	94.1	95.4	94.6	95.1	95.4	95.8	95.4	96.7
WYOMING	92.7	93.8	95.7	96.7	93.4	94.9	90.5	93.7	92.4	94.8	93.3	96.8

TABLE 1.2 (cont.)

	1986		1987				1987		1987		1988	
	ANNUAL		MARCH		JULY		NOVEMBER		ANNUAL		MARCH	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
UNITED STATES	92.3	94.1	92.5	94.3	92.3	94.2	92.3	94.3	92.4	94.2	92.9	94.6
ALABAMA	88.7	90.4	87.2	89.9	86.3	88.5	88.9	90.5	87.5	89.6	88.4	89.6
ALASKA	86.4	88.9	88.3	90.5	87.4	89.6	87.8	90.3	87.8	90.2	87.2	89.4
ARIZONA	89.4	90.9	89.1	91.8	88.6	90.4	88.2	89.8	88.6	90.7	90.5	92.5
ARKANSAS	86.4	90.4	87.0	90.4	85.8	90.4	86.0	91.3	86.3	90.7	83.6	87.7
CALIFORNIA	93.0	94.0	94.3	95.4	93.2	94.5	93.8	95.0	93.8	95.0	94.7	95.6
COLORADO	94.1	96.0	93.2	96.4	93.0	95.0	92.5	95.2	92.9	95.5	95.1	96.3
CONNECTICUT	97.0	97.9	97.9	97.9	96.7	98.2	96.4	97.9	97.0	98.0	96.5	99.0
DELAWARE	94.7	96.3	96.5	97.6	96.9	97.7	96.1	96.5	96.5	97.3	97.2	98.4
DIST OF COL	92.2	94.0	91.2	93.1	92.1	94.2	94.0	95.4	92.4	94.2	93.3	95.2
FLORIDA	90.0	92.5	91.2	93.1	92.3	94.5	91.7	93.9	91.7	93.8	93.0	94.7
GEORGIA	88.4	91.0	87.5	90.7	89.2	92.0	89.5	91.2	88.7	91.3	91.5	93.2
HAWAII	92.2	94.4	94.8	96.5	94.8	96.9	93.1	96.2	94.2	96.6	95.3	96.2
IDAHO	91.5	93.1	90.9	91.7	90.4	92.1	92.0	93.8	91.1	92.5	92.9	93.1
ILLINOIS	93.6	95.2	94.0	95.6	93.3	95.2	93.7	94.7	93.7	95.2	94.3	95.6
INDIANA	92.2	94.3	91.3	92.9	91.0	93.4	91.4	93.3	91.2	93.2	91.4	94.2
IOWA	95.7	96.5	95.5	96.7	94.9	96.4	94.8	96.0	95.1	96.3	94.5	96.2
KANSAS	94.6	96.1	95.5	96.6	95.2	96.4	94.9	96.8	95.2	96.6	95.3	95.9
KENTUCKY	86.2	90.6	87.4	90.9	85.0	89.9	87.2	91.0	86.5	90.6	89.5	92.2
LOUISIANA	88.7	91.9	86.9	90.6	89.5	91.6	86.1	90.3	87.5	90.8	86.8	90.1
MAINE	93.4	95.4	94.2	95.9	93.1	94.6	93.1	95.2	93.5	95.2	94.3	95.3
MARYLAND	95.7	96.7	96.2	96.5	94.2	96.1	96.0	97.3	95.4	96.6	96.4	97.4
MASSACHUSETTS	96.4	97.1	96.7	97.5	97.0	97.4	95.5	96.1	96.4	97.0	97.3	97.7
MICHIGAN	93.4	94.5	94.1	95.0	93.3	94.4	93.7	94.9	93.7	94.8	94.4	95.5
MINNESOTA	96.2	97.2	95.8	97.6	96.0	97.5	96.1	97.3	96.0	97.4	97.3	98.3
MISSISSIPPI	80.1	87.3	82.6	87.7	79.8	82.8	81.9	88.4	81.5	86.3	83.8	88.9
MISSOURI	93.4	94.9	91.5	94.3	93.5	95.6	94.0	95.9	93.0	95.3	93.0	95.5
MONTANA	90.9	93.7	91.4	94.2	89.3	92.1	91.9	95.2	90.9	93.9	91.4	93.2
NEBRASKA	95.6	96.8	95.0	96.4	95.1	95.7	93.8	96.0	94.6	96.1	96.4	96.9
NEVADA	92.4	93.7	92.1	92.6	92.5	94.3	92.5	94.2	92.4	93.7	91.8	92.8
NEW HAMPSHIRE	94.0	95.0	94.0	96.2	94.8	96.1	93.6	96.3	94.1	96.2	96.5	97.1
NEW JERSEY	94.9	96.1	94.3	95.5	95.6	96.6	95.2	96.9	95.0	96.3	94.3	96.0
NEW MEXICO	85.1	89.1	89.1	91.7	83.6	87.9	85.5	88.2	86.0	89.3	85.9	89.1
NEW YORK	93.2	94.3	93.3	94.2	92.5	94.1	92.5	94.1	92.7	94.2	93.0	94.4
N. CAROLINA	90.2	92.5	89.7	92.1	89.5	91.9	88.5	91.2	89.2	91.7	90.1	92.7
N. DAKOTA	96.1	97.0	97.8	98.2	96.1	96.8	96.4	97.1	96.8	97.4	96.7	97.9
OHIO	93.1	94.4	93.4	94.8	93.9	95.0	92.9	94.2	93.4	94.7	94.0	94.9
OKLAHOMA	90.4	93.0	88.5	91.9	89.1	92.5	88.6	91.1	88.7	91.8	89.6	92.0
OREGON	92.7	94.3	91.1	92.3	94.5	96.6	94.3	95.5	93.3	94.8	89.4	91.8
PENNSYLVANIA	96.3	97.4	96.0	97.0	97.0	97.8	96.1	97.2	96.4	97.3	96.1	97.2
RHODE ISLAND	95.9	96.8	95.1	96.6	95.0	95.8	93.6	96.6	95.2	96.3	95.4	96.7
S. CAROLINA	86.3	90.6	89.0	91.2	85.6	89.0	88.5	91.6	87.7	90.6	88.3	91.6
S. DAKOTA	92.6	94.2	92.2	95.1	93.3	94.9	92.8	95.1	92.8	95.0	92.2	95.0
TENNESSEE	89.6	93.6	89.3	92.3	89.1	91.6	89.2	93.9	89.2	92.6	91.7	94.7
TEXAS	88.9	91.9	90.4	92.4	89.5	92.3	88.6	91.8	89.5	92.2	87.8	90.6
UTAH	93.0	93.9	93.2	94.6	90.1	94.5	93.7	94.6	92.3	94.6	93.0	93.7
VERMONT	93.8	95.6	95.8	96.8	95.4	96.7	94.8	97.4	95.3	96.9	95.9	97.2
VIRGINIA	92.1	94.1	92.9	94.8	92.7	94.5	91.9	94.3	92.5	94.6	94.7	96.2
WASHINGTON	94.6	96.3	93.2	96.5	94.5	95.9	95.1	96.8	94.3	96.4	93.4	94.9
W. VIRGINIA	88.2	91.9	88.7	91.5	88.1	91.5	86.7	91.5	87.8	91.5	87.9	92.1
WISCONSIN	95.1	95.9	96.2	97.0	95.5	96.1	97.5	98.2	96.4	97.1	95.9	97.4
WYOMING	92.1	95.1	93.3	95.2	93.5	95.3	90.1	91.8	92.3	94.1	93.6	94.6

CHART 1.1

Percent with Telephone

# Telephone Penetration

Households

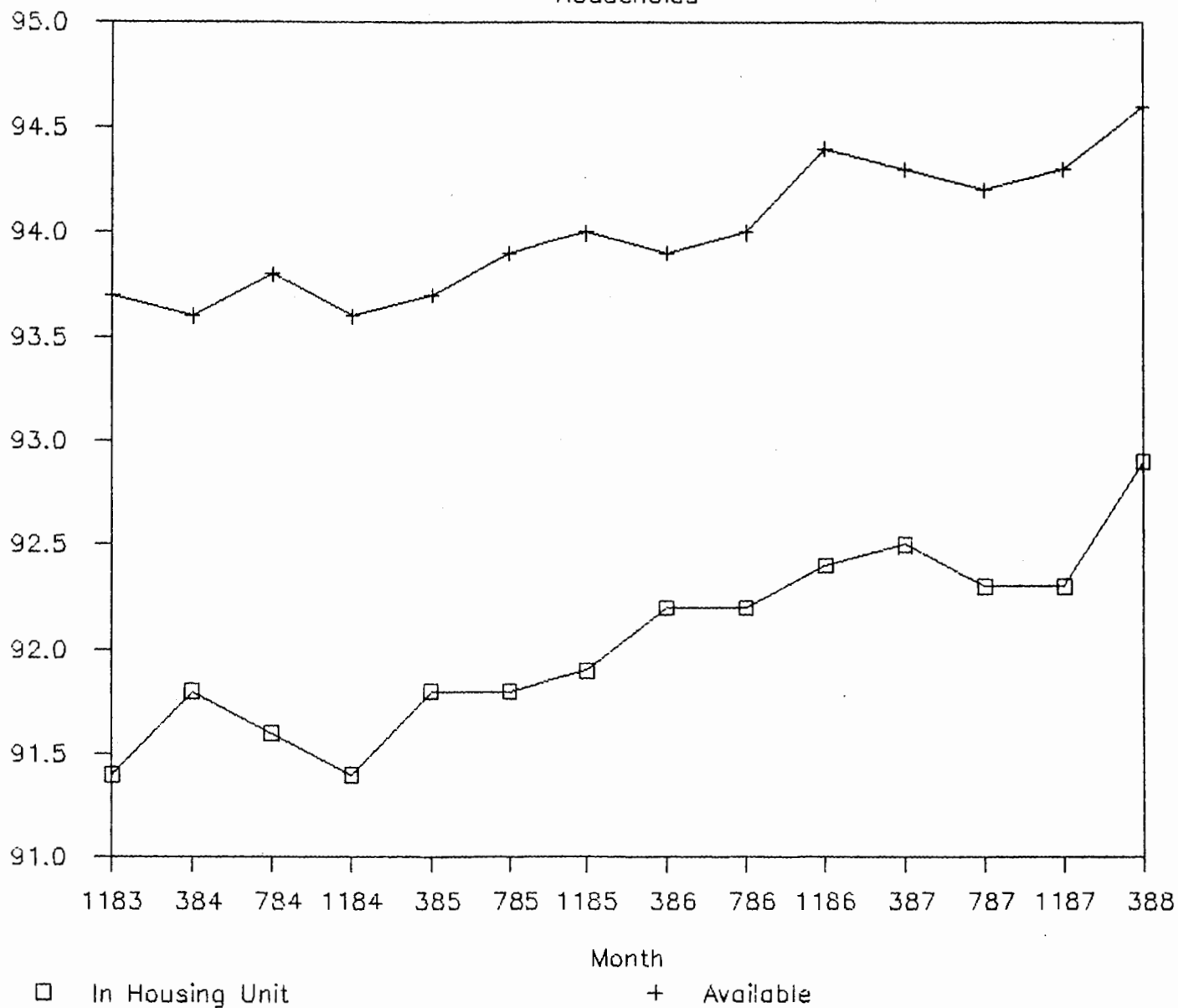


TABLE 1.3

## PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY HOUSEHOLDER'S AGE

	ALL RACES		WHITE		BLACK		HISPANIC ORIGIN	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
NOVEMBER 83								
TOTAL HOUSEHOLDS	91.4	93.7	93.1	95.0	78.8	83.9	80.7	84.6
16-24 YRS OLD	76.6	84.1	80.2	86.2	49.9	68.2	64.9	71.9
25-54 YRS OLD	91.5	93.7	93.4	95.2	78.7	83.3	81.8	85.6
55-59 YRS OLD	95.0	96.1	96.1	97.0	86.3	88.5	89.3	89.3
60-64 YRS OLD	95.5	96.4	96.4	97.2	89.5	90.7	87.3	90.2
65-69 YRS OLD	95.5	96.2	96.5	97.0	87.2	89.0	90.7	90.7
70-99 YRS OLD	95.4	96.5	96.0	97.0	90.1	92.3	85.5	89.1
MARCH 84								
TOTAL HOUSEHOLDS	91.8	93.6	93.3	94.9	80.1	84.1	80.7	83.6
16-24 YRS OLD	77.8	84.0	80.3	85.5	57.9	71.5	59.0	66.2
25-54 YRS OLD	91.9	93.7	93.5	95.0	80.4	84.0	83.2	85.6
55-59 YRS OLD	94.9	95.9	95.7	96.6	87.6	89.9	88.7	90.5
60-64 YRS OLD	94.2	95.3	95.9	96.7	81.7	85.0	87.4	89.6
65-69 YRS OLD	96.1	96.6	97.0	97.4	87.8	89.3	85.8	87.8
70-99 YRS OLD	95.3	96.3	96.2	97.1	87.2	88.8	82.2	85.5
JULY 84								
TOTAL HOUSEHOLDS	91.6	93.8	93.2	95.0	80.5	85.3	81.1	84.6
16-24 YRS OLD	77.0	83.3	79.4	85.3	60.4	70.0	62.9	70.8
25-54 YRS OLD	91.7	93.8	93.4	95.1	79.8	84.9	83.1	85.8
55-59 YRS OLD	95.1	96.3	96.1	97.1	87.5	90.2	87.4	91.4
60-64 YRS OLD	95.0	96.2	95.8	96.9	87.7	89.5	88.1	90.5
65-69 YRS OLD	96.4	97.1	97.3	97.9	89.3	91.3	88.7	90.6
70-99 YRS OLD	95.2	96.5	95.9	96.9	89.6	93.1	84.0	88.5
NOVEMBER 84								
TOTAL HOUSEHOLDS	91.4	93.6	93.1	95.0	78.9	84.0	81.1	84.5
16-24 YRS OLD	76.1	83.4	79.0	85.4	56.3	70.8	60.8	70.8
25-54 YRS OLD	91.4	93.6	93.3	95.1	78.5	83.3	83.1	85.8
55-59 YRS OLD	94.9	96.2	96.3	97.5	84.7	87.4	85.3	88.3
60-64 YRS OLD	95.6	96.5	96.5	97.3	90.3	92.1	86.0	87.2
65-69 YRS OLD	96.0	96.7	97.1	97.6	86.7	89.1	96.2	96.2
70-99 YRS OLD	95.3	96.6	96.1	97.2	88.0	90.7	87.1	88.8
1984 ANNUAL AVERAGE								
TOTAL HOUSEHOLDS	91.6	93.7	93.2	94.9	79.8	84.5	80.9	84.3
16-24 YRS OLD	77.0	83.6	79.6	85.4	58.2	70.8	60.9	69.2
25-54 YRS OLD	91.7	93.7	93.4	95.1	79.6	84.1	83.1	85.7
55-59 YRS OLD	94.9	96.1	96.1	97.1	86.6	89.2	87.1	90.1
60-64 YRS OLD	94.9	96.0	96.0	97.0	86.6	88.8	87.1	89.1
65-69 YRS OLD	96.2	96.8	97.1	97.6	87.9	89.9	90.2	91.5
70-99 YRS OLD	95.3	96.5	96.0	97.1	88.2	90.9	84.4	87.6

TABLE 1.3 (cont.)

## PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY HOUSEHOLDER'S AGE

	ALL RACES		WHITE		BLACK		HISPANIC ORIGIN	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
MARCH 85								
TOTAL HOUSEHOLDS	91.8	93.7	93.3	95.0	80.1	84.4	81.2	84.1
16-24 YRS OLD	77.3	83.1	79.6	84.8	59.8	70.0	62.4	67.1
25-54 YRS OLD	91.9	93.8	93.6	95.2	79.5	83.9	83.0	85.5
55-59 YRS OLD	94.9	95.9	95.8	96.7	87.3	89.1	86.5	89.1
60-64 YRS OLD	94.3	95.4	95.5	96.2	84.4	87.6	91.3	93.2
65-69 YRS OLD	96.1	97.0	96.8	97.5	90.7	93.6	86.5	90.4
70-99 YRS OLD	95.6	96.5	96.5	97.3	87.4	89.4	87.4	91.7
JULY 85								
TOTAL HOUSEHOLDS	91.8	93.9	93.2	95.0	81.6	85.8	80.3	83.3
16-24 YRS OLD	78.3	84.4	80.7	86.3	59.6	70.2	67.8	73.7
25-54 YRS OLD	91.8	93.9	93.3	95.1	81.4	85.8	81.0	83.6
55-59 YRS OLD	94.7	95.9	95.9	96.8	86.3	89.4	87.2	88.0
60-64 YRS OLD	95.0	95.9	95.5	96.4	91.1	91.8	85.5	88.3
65-69 YRS OLD	95.5	96.5	96.7	97.4	86.1	88.5	85.9	89.7
70-99 YRS OLD	95.6	96.8	96.2	97.3	90.8	92.4	87.6	90.5
NOVEMBER 85								
TOTAL HOUSEHOLDS	91.9	94.0	93.3	95.2	81.5	85.3	82.5	85.7
16-24 YRS OLD	78.0	83.9	80.6	86.3	60.7	68.1	64.3	71.6
25-54 YRS OLD	91.9	94.0	93.5	95.3	81.1	85.2	83.4	86.5
55-59 YRS OLD	95.0	96.2	95.7	96.8	90.0	91.4	88.4	90.6
60-64 YRS OLD	95.5	96.3	96.3	97.0	89.8	91.3	92.3	92.3
65-69 YRS OLD	96.1	97.0	97.0	97.7	88.0	90.8	95.1	95.1
70-99 YRS OLD	95.3	96.6	96.0	97.2	88.9	90.5	87.8	90.4
1985 ANNUAL AVERAGE								
TOTAL HOUSEHOLDS	91.8	93.9	93.3	95.0	81.1	85.2	81.3	84.4
16-24 YRS OLD	77.9	83.8	80.3	85.8	60.0	69.4	64.8	70.8
25-54 YRS OLD	91.9	93.9	93.5	95.2	80.7	85.0	82.5	85.2
55-59 YRS OLD	94.9	96.0	95.8	96.8	87.8	90.0	87.4	89.2
60-64 YRS OLD	94.9	95.9	95.8	96.5	88.4	90.2	89.7	91.3
65-69 YRS OLD	95.9	96.8	96.8	97.5	88.2	90.9	89.1	91.7
70-99 YRS OLD	95.5	96.6	96.2	97.3	89.1	90.7	87.6	90.9
MARCH 86								
TOTAL HOUSEHOLDS	92.2	93.9	93.6	95.0	82.0	85.8	81.5	83.9
16-24 YRS OLD	78.1	82.9	80.6	84.7	58.2	69.0	60.1	63.8
25-54 YRS OLD	92.3	93.9	93.8	95.1	82.1	85.6	83.1	85.3
55-59 YRS OLD	95.2	96.3	96.1	97.0	87.8	90.6	86.8	90.3
60-64 YRS OLD	95.5	96.2	96.2	96.9	89.0	90.5	92.4	92.4
65-69 YRS OLD	95.7	96.7	96.6	97.4	87.2	89.8	94.1	95.1
70-99 YRS OLD	95.9	97.0	96.4	97.5	91.2	93.0	93.1	96.2



TABLE 1.3 (cont.)

## PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY HOUSEHOLDER'S AGE

	ALL RACES		WHITE		BLACK		HISPANIC ORIGIN	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
JULY 86								
TOTAL HOUSEHOLDS	92.2	94.0	93.7	95.2	81.5	85.7	81.1	83.6
16-24 YRS OLD	79.7	85.4	82.0	86.7	63.8	76.6	64.1	69.7
25-54 YRS OLD	92.1	93.9	93.8	95.3	80.4	84.4	83.0	85.1
55-59 YRS OLD	95.0	96.0	96.0	96.9	87.9	90.0	86.0	87.1
60-64 YRS OLD	95.3	96.2	95.9	96.6	90.9	92.9	81.8	85.1
65-69 YRS OLD	95.7	96.5	96.7	97.4	87.8	89.4	91.4	92.6
70-99 YRS OLD	95.8	96.5	96.4	97.1	90.6	91.8	85.3	86.1
NOVEMBER 86								
TOTAL HOUSEHOLDS	92.4	94.4	93.8	95.5	81.3	86.1	81.6	84.7
16-24 YRS OLD	79.4	84.7	81.9	86.3	57.5	71.1	65.9	68.8
25-54 YRS OLD	92.2	94.3	93.9	95.6	80.8	85.5	82.6	86.0
55-59 YRS OLD	95.3	96.6	96.1	97.0	88.3	93.2	90.1	93.8
60-64 YRS OLD	95.4	96.2	96.6	97.4	86.7	87.8	93.2	93.6
65-69 YRS OLD	96.0	96.9	96.7	97.5	90.2	92.5	85.7	88.0
70-99 YRS OLD	96.4	97.3	96.8	97.7	92.2	93.9	84.1	86.9
1986 ANNUAL AVERAGE								
TOTAL HOUSEHOLDS	92.3	94.1	93.7	95.2	81.6	85.9	81.4	84.1
16-24 YRS OLD	79.0	84.4	81.5	85.9	59.8	72.2	63.4	67.4
25-54 YRS OLD	92.2	94.0	93.8	95.3	81.1	85.2	82.9	85.5
55-59 YRS OLD	95.2	96.3	96.1	97.0	88.0	91.3	87.6	90.4
60-64 YRS OLD	95.4	96.2	96.2	97.0	88.9	90.4	89.1	90.3
65-69 YRS OLD	95.8	96.7	96.7	97.4	88.4	90.6	90.4	91.9
70-99 YRS OLD	96.0	97.0	96.5	97.4	91.3	92.9	87.5	89.8
MARCH 87								
TOTAL HOUSEHOLDS	92.5	94.3	93.9	95.4	82.2	85.7	84.1	86.5
16-24 YRS OLD	79.7	85.5	81.9	87.0	64.3	73.8	68.1	75.1
25-54 YRS OLD	92.6	94.2	94.1	95.5	81.7	85.3	85.1	87.0
55-59 YRS OLD	95.0	96.1	96.4	97.0	85.0	88.6	87.4	90.5
60-64 YRS OLD	95.6	96.4	96.5	97.2	87.6	89.8	92.6	92.6
65-69 YRS OLD	95.6	96.2	96.5	97.0	87.9	89.2	89.4	89.4
70-99 YRS OLD	95.8	97.0	96.3	97.5	91.4	92.3	95.3	96.1
JULY 87								
TOTAL HOUSEHOLDS	92.3	94.2	93.7	95.3	82.0	86.0	83.1	85.2
16-24 YRS OLD	78.2	83.3	81.2	85.7	57.6	67.2	66.2	69.7
25-54 YRS OLD	92.1	94.2	93.6	95.3	81.9	86.2	84.2	86.1
55-59 YRS OLD	95.4	96.2	96.5	97.2	87.1	89.8	90.8	92.4
60-64 YRS OLD	95.8	96.4	96.7	97.2	88.5	90.2	91.1	93.7
65-69 YRS OLD	96.5	97.2	97.5	98.1	88.9	90.2	87.5	87.5
70-99 YRS OLD	96.0	96.9	96.4	97.3	93.4	94.1	88.8	91.6

TABLE 1.3 (cont.)

## PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY HOUSEHOLDER'S AGE

	ALL RACES		WHITE		BLACK		HISPANIC ORIGIN	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
NOVEMBER 87								
TOTAL HOUSEHOLDS	92.3	94.3	93.8	95.4	81.2	85.9	81.9	84.6
16-24 YRS OLD	78.9	84.4	81.0	85.5	63.6	76.0	61.3	67.8
25-54 YRS OLD	92.1	94.2	93.9	95.5	80.4	85.1	83.9	86.4
55-59 YRS OLD	95.3	96.4	96.3	97.3	88.9	90.3	89.1	89.3
60-64 YRS OLD	95.7	96.5	96.7	97.4	88.0	90.5	89.0	89.9
65-69 YRS OLD	95.7	96.6	97.0	97.6	84.6	88.4	89.6	89.6
70-99 YRS OLD	96.3	97.3	96.8	97.7	90.8	92.7	90.7	91.7
1987 ANNUAL AVERAGE								
TOTAL HOUSEHOLDS	92.4	94.2	93.8	95.4	81.8	85.9	83.0	85.4
16-24 YRS OLD	78.9	84.4	81.4	86.1	61.8	72.3	65.2	70.8
25-54 YRS OLD	92.3	94.2	93.9	95.4	81.4	85.5	84.4	86.5
55-59 YRS OLD	95.2	96.2	96.4	97.2	87.0	89.6	89.1	90.7
60-64 YRS OLD	95.7	96.4	96.6	97.3	88.0	90.2	90.9	92.0
65-69 YRS OLD	95.9	96.7	97.0	97.5	87.1	89.3	88.8	88.8
70-99 YRS OLD	96.0	97.0	96.5	97.5	91.9	93.0	91.6	93.1
MARCH 88								
TOTAL HOUSEHOLDS	92.9	94.6	94.2	95.7	82.7	86.3	82.6	85.7
16-24 YRS OLD	81.2	85.7	83.3	87.2	67.3	75.1	66.1	72.7
25-54 YRS OLD	92.8	94.4	94.3	95.7	81.2	84.9	83.9	86.5
55-59 YRS OLD	95.5	97.0	96.4	97.7	89.1	92.4	91.7	94.1
60-64 YRS OLD	95.4	96.4	96.4	97.2	87.7	90.8	85.3	88.4
65-69 YRS OLD	96.3	96.9	96.8	97.3	91.3	93.1	84.5	87.4
70-99 YRS OLD	95.8	97.3	96.2	97.7	92.7	94.0	91.2	93.5

TABLE 1.4

## PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY HOUSEHOLD SIZE

HOUSEHOLD SIZE	ALL RACES		WHITE		BLACK		HISPANIC ORIGIN	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
NOVEMBER 83								
TOTAL	91.4	93.7	93.1	95.0	78.8	83.9	80.7	84.6
1 PERSON	87.5	91.3	90.2	93.7	71.2	77.1	73.8	82.0
2 - 3	93.3	95.0	94.5	95.9	82.5	87.8	80.7	84.3
4 - 5	92.4	94.2	93.6	95.0	83.1	87.3	83.4	86.2
6 +	86.6	88.9	90.5	92.2	74.5	78.5	81.0	84.0
MARCH 84								
TOTAL	91.8	93.6	93.3	94.9	80.1	84.1	80.7	83.6
1 PERSON	88.6	91.7	90.7	93.3	73.9	79.9	72.2	76.4
2 - 3	93.3	94.9	94.5	95.8	82.4	86.2	80.7	84.2
4 - 5	92.7	94.0	94.1	95.2	82.9	85.7	85.4	87.2
6 +	86.4	88.3	88.6	90.2	78.8	82.0	78.8	81.5
JULY 84								
TOTAL	91.6	93.8	93.2	95.0	80.5	85.3	81.1	84.6
1 PERSON	88.6	92.1	90.2	93.4	77.3	83.2	71.9	80.5
2 - 3	93.1	94.9	94.4	95.8	82.2	87.2	82.5	85.1
4 - 5	92.3	93.9	93.8	95.1	81.9	86.1	83.9	86.3
6 +	87.6	89.3	91.0	92.3	76.1	79.0	79.5	83.1
NOVEMBER 84								
TOTAL	91.4	93.6	93.1	95.0	78.9	84.0	81.1	84.5
1 PERSON	87.8	91.5	90.1	93.5	73.5	78.9	74.6	81.1
2 - 3	93.1	95.0	94.4	96.0	82.3	87.1	82.7	86.2
4 - 5	92.3	93.9	93.9	95.1	80.6	85.3	82.6	85.1
6 +	86.8	88.8	89.8	91.0	74.0	79.3	79.1	80.8
1984 ANNUAL AVERAGE								
TOTAL	91.6	93.7	93.2	94.9	79.8	84.5	80.9	84.3
1 PERSON	88.3	91.8	90.3	93.4	74.9	80.7	72.9	79.4
2 - 3	93.2	94.9	94.5	95.9	82.3	86.8	82.0	85.2
4 - 5	92.5	94.0	93.9	95.1	81.8	85.7	83.9	86.2
6 +	86.9	88.8	89.8	91.1	76.3	80.1	79.2	81.8
MARCH 85								
TOTAL	91.8	93.7	93.3	95.0	80.1	84.4	81.2	84.1
1 PERSON	88.9	92.3	91.1	94.0	73.7	80.4	75.0	82.4
2 - 3	93.4	94.8	94.5	95.7	83.8	86.8	82.4	84.8
4 - 5	92.2	93.7	93.6	94.8	81.9	86.2	81.5	83.4
6 +	87.4	89.4	90.7	92.0	75.0	79.0	84.0	85.5

TABLE 1.4 (cont.)

## PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY HOUSEHOLD SIZE

HOUSEHOLD SIZE	ALL RACES		WHITE		BLACK		HISPANIC ORIGIN	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
JULY 85								
TOTAL	91.8	93.9	93.2	95.0	81.6	85.8	80.3	83.3
1 PERSON	87.0	90.7	89.3	92.6	73.9	80.2	67.8	74.3
2 - 3	93.5	95.1	94.5	95.9	85.1	88.4	83.8	85.9
4 - 5	95.1	96.0	95.7	96.4	91.9	93.5	86.5	87.6
6 +	91.6	92.2	94.4	94.5	82.2	85.0	84.5	84.5
NOVEMBER 85								
TOTAL	91.9	94.0	93.3	95.2	81.5	85.3	82.5	85.7
1 PERSON	86.8	90.6	89.3	92.8	73.3	78.8	73.0	78.8
2 - 3	93.7	95.2	94.7	95.9	85.9	88.6	84.7	87.5
4 - 5	95.2	96.3	96.3	97.0	89.1	91.3	89.0	90.1
6 +	91.9	93.8	93.5	94.2	86.6	90.9	88.3	88.3
1985 ANNUAL AVERAGE								
TOTAL	91.8	93.9	93.3	95.0	81.1	85.2	81.3	84.4
1 PERSON	87.6	91.2	89.9	93.1	73.6	79.8	71.9	78.5
2 - 3	93.5	95.0	94.5	95.8	84.9	87.9	83.6	86.0
4 - 5	94.2	95.3	95.2	96.1	87.6	90.4	85.6	87.0
6 +	90.3	91.8	92.8	93.6	81.3	84.9	85.6	86.1
MARCH 86								
TOTAL	92.2	93.9	93.6	95.0	82.0	85.8	81.5	83.9
1 PERSON	89.1	92.3	90.6	93.5	79.2	83.9	79.1	85.0
2 - 3	93.9	95.2	95.0	96.0	84.5	88.0	81.2	83.3
4 - 5	92.7	93.8	94.1	94.9	82.8	86.4	83.8	85.5
6 +	86.7	88.0	89.7	90.7	74.2	76.9	78.8	79.8
JULY 86								
TOTAL	92.2	94.0	93.7	95.2	81.5	85.7	81.1	83.6
1 PERSON	87.6	90.8	90.1	92.9	74.3	79.5	71.8	76.6
2 - 3	94.0	95.3	94.9	96.0	85.4	89.1	83.4	85.5
4 - 5	95.1	95.8	96.0	96.4	89.6	91.2	86.8	87.5
6 +	92.5	94.2	95.4	95.5	78.0	87.4	88.2	88.2
NOVEMBER 86								
TOTAL	92.4	94.4	93.8	95.5	81.3	86.1	81.6	84.7
1 PERSON	87.7	91.2	90.4	93.3	72.6	79.5	70.9	76.5
2 - 3	94.1	95.5	95.0	96.2	86.0	89.7	84.7	87.4
4 - 5	95.5	96.3	96.3	96.8	91.3	93.5	85.9	87.1
6 +	91.1	92.3	93.5	94.1	81.2	84.1	82.8	84.3

TABLE 1.4 (cont.)

## PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY HOUSEHOLD SIZE

HOUSEHOLD SIZE	ALL RACES		WHITE		BLACK		HISPANIC ORIGIN	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
1986 ANNUAL .								
AVERAGE								
TOTAL	92.3	94.1	93.7	95.2	81.6	85.9	81.4	84.1
1 PERSON	88.1	91.4	90.4	93.2	75.4	81.0	73.9	79.3
2 - 3	94.0	95.3	95.0	96.1	85.3	88.9	83.1	85.4
4 - 5	94.4	95.3	95.4	96.1	87.9	90.4	85.5	86.7
6 +	90.1	91.5	92.9	93.5	77.8	82.8	83.3	84.1
MARCH 87								
TOTAL	92.5	94.3	93.9	95.4	82.2	85.7	84.1	86.5
1 PERSON	89.5	92.8	91.3	94.2	77.6	82.9	80.3	84.5
2 - 3	93.9	95.2	95.1	96.2	84.0	86.6	84.4	86.8
4 - 5	93.5	94.7	94.5	95.5	85.2	88.4	86.6	88.8
6 +	88.0	89.9	90.5	91.6	78.6	82.6	80.4	80.7
JULY 87								
TOTAL	92.3	94.2	93.7	95.3	82.0	86.0	83.1	85.2
1 PERSON	89.6	92.8	91.3	94.2	78.8	83.5	79.5	83.1
2 - 3	93.9	95.2	95.1	96.2	84.0	87.5	85.6	87.3
4 - 5	92.5	94.1	93.8	95.1	82.6	86.9	81.5	83.4
6 +	88.3	90.0	90.7	91.9	78.8	82.5	83.3	84.9
NOVEMBER 87								
TOTAL	92.3	94.3	93.8	95.4	81.2	85.9	81.9	84.6
1 PERSON	89.4	92.5	91.3	94.0	77.0	83.0	78.6	82.8
2 - 3	93.8	95.5	95.1	96.4	83.6	87.9	81.5	84.8
4 - 5	93.1	94.6	94.5	95.7	83.0	86.8	85.2	87.0
6 +	85.8	87.5	88.1	89.4	74.9	79.3	78.2	79.2
1987 ANNUAL								
AVERAGE								
TOTAL	92.4	94.2	93.8	95.4	81.8	85.9	83.0	85.4
1 PERSON	89.5	92.7	91.3	94.1	77.8	83.1	79.5	83.5
2 - 3	93.9	95.3	95.1	96.3	83.9	87.3	83.8	86.3
4 - 5	93.0	94.5	94.3	95.4	83.6	87.4	84.4	86.4
6 +	87.4	89.1	89.8	91.0	77.4	81.5	80.6	81.6
MARCH 88								
TOTAL	92.9	94.6	94.2	95.7	82.7	86.3	82.6	85.7
1 PERSON	88.7	92.0	90.8	93.7	77.5	82.5	76.8	82.2
2 - 3	94.6	95.7	95.5	96.4	85.9	88.7	84.2	86.9
4 - 5	94.6	95.5	95.7	96.6	85.7	87.6	83.6	85.0
6 +	93.8	95.0	95.3	95.3	86.7	93.1	91.0	91.0

TABLE 1.5

## PERCENTAGE OF FAMILIES WITH A TELEPHONE BY FAMILY INCOME

	ALL RACES		WHITE		BLACK		HISPANIC ORIGIN	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
NOVEMBER 83								
TOTAL	91.4	93.7	93.1	95.0	78.8	83.9	80.7	84.6
UNDER \$5,000	71.7	78.4	75.7	81.9	62.7	70.4	58.3	64.6
\$5,000 - \$7,499	82.7	87.2	84.5	88.5	74.7	82.0	71.1	76.5
\$7,500 - \$9,999	88.2	90.9	89.6	92.2	80.5	83.9	72.6	77.9
\$10,000 - \$12,499	89.7	92.7	91.2	93.9	82.0	86.2	76.8	82.1
\$12,500 - \$14,999	92.1	94.6	93.4	95.2	82.5	90.7	89.8	91.7
\$15,000 - \$17,499	94.6	96.2	94.9	96.4	91.7	95.1	86.9	90.8
\$17,500 - \$19,999	95.7	97.4	96.1	97.7	91.4	95.0	88.4	91.5
\$20,000 - \$24,999	96.9	97.8	97.4	98.2	91.2	93.2	93.1	94.3
\$25,000 - \$29,999	98.0	98.9	98.2	99.0	96.1	97.2	98.3	99.0
\$30,000 - \$34,999	98.8	99.1	99.0	99.2	95.1	97.7	97.7	98.9
\$35,000 - \$39,999	99.0	99.5	99.1	99.5	98.4	98.4	92.1	98.2
\$40,000 - \$49,999	99.2	99.5	99.4	99.7	97.3	97.3	100.0	100.0
\$50,000 - \$74,999	99.4	99.7	99.5	99.7	98.5	100.0	99.6	100.0
\$75,000 +	99.4	99.6	99.4	99.6	100.0	100.0	100.0	100.0
MARCH 84								
TOTAL	91.8	93.6	93.3	94.9	80.1	84.1	80.7	83.6
UNDER \$5,000	71.4	77.0	74.7	79.8	62.8	69.7	53.6	60.2
\$5,000 - \$7,499	83.6	86.8	85.8	88.7	74.6	79.1	70.0	73.9
\$7,500 - \$9,999	85.8	89.3	87.7	90.8	75.9	81.1	72.2	76.3
\$10,000 - \$12,499	90.0	92.4	91.3	93.5	82.5	86.3	81.8	86.2
\$12,500 - \$14,999	92.7	94.3	93.6	95.2	84.6	86.7	88.5	89.7
\$15,000 - \$17,499	93.6	95.6	94.3	95.9	87.6	92.7	89.4	91.2
\$17,500 - \$19,999	95.3	96.3	95.4	96.3	94.8	96.4	87.1	88.0
\$20,000 - \$24,999	97.1	98.0	97.3	98.1	94.6	97.4	90.0	92.8
\$25,000 - \$29,999	98.1	98.6	98.5	98.9	93.5	94.8	96.2	97.6
\$30,000 - \$34,999	98.8	99.2	98.8	99.3	97.5	97.5	99.2	99.2
\$35,000 - \$39,999	99.4	99.6	99.5	99.7	96.3	97.2	100.0	100.0
\$40,000 - \$49,999	99.4	99.6	99.5	99.7	98.0	98.3	100.0	100.0
\$50,000 - \$74,999	99.2	99.6	99.3	99.7	97.0	97.0	100.0	100.0
\$75,000 +	98.9	99.6	99.0	99.6	94.0	100.0	95.1	100.0
JULY 84								
TOTAL	91.6	93.8	93.2	95.0	80.5	85.3	81.1	84.6
UNDER \$5,000	71.8	77.9	74.5	80.1	65.4	72.4	53.2	60.6
\$5,000 - \$7,499	82.6	86.9	84.8	88.8	74.4	80.3	71.7	76.1
\$7,500 - \$9,999	86.5	89.8	88.6	91.3	75.6	82.4	76.4	83.3
\$10,000 - \$12,499	89.7	92.7	90.7	93.3	83.4	88.9	80.7	84.1
\$12,500 - \$14,999	91.7	94.6	92.8	95.3	85.0	90.0	87.0	93.0
\$15,000 - \$17,499	94.1	95.9	94.5	96.3	89.4	91.1	87.6	88.0
\$17,500 - \$19,999	95.6	97.0	96.1	97.2	92.4	95.7	94.4	95.3
\$20,000 - \$24,999	96.8	97.8	97.2	98.0	92.9	95.7	96.7	97.3
\$25,000 - \$29,999	97.9	98.6	98.1	98.6	95.8	98.4	96.3	97.4
\$30,000 - \$34,999	98.8	99.1	98.8	99.2	97.7	97.7	100.0	100.0
\$35,000 - \$39,999	99.2	99.6	99.3	99.6	98.1	99.1	98.0	98.0
\$40,000 - \$49,999	99.3	99.5	99.5	99.7	96.1	96.1	100.0	100.0
\$50,000 - \$74,999	99.7	99.8	99.7	99.8	98.8	100.0	100.0	100.0
\$75,000 +	99.1	99.6	99.1	99.6	100.0	100.0	100.0	100.0

TABLE 1.5 (cont.)

## PERCENTAGE OF FAMILIES WITH A TELEPHONE BY FAMILY INCOME

	ALL RACES		WHITE		BLACK		HISPANIC ORIGIN	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
NOVEMBER 84								
TOTAL	91.4	93.6	93.1	95.0	78.9	84.0	81.1	84.5
UNDER \$5,000	70.3	77.5	74.4	81.3	61.4	69.4	58.5	66.1
\$5,000 - \$7,499	83.7	87.1	85.8	88.8	75.3	81.2	67.7	70.8
\$7,500 - \$9,999	87.0	89.8	88.7	90.9	80.2	84.7	76.3	79.5
\$10,000 - \$12,499	89.4	92.6	91.4	94.1	77.4	83.6	76.8	83.5
\$12,500 - \$14,999	92.0	94.2	92.5	94.5	86.6	91.6	86.5	88.9
\$15,000 - \$17,499	93.3	95.6	93.8	95.8	88.6	93.0	88.3	91.0
\$17,500 - \$19,999	94.3	95.9	95.2	96.5	88.0	91.0	91.5	95.2
\$20,000 - \$24,999	96.5	97.6	96.8	97.9	92.3	94.3	90.7	93.3
\$25,000 - \$29,999	98.4	99.1	98.6	99.2	96.0	98.3	96.7	96.7
\$30,000 - \$34,999	98.6	99.1	98.9	99.3	95.3	96.6	97.1	98.0
\$35,000 - \$39,999	99.1	99.4	99.1	99.4	98.7	98.7	96.5	97.6
\$40,000 - \$49,999	99.2	99.6	99.3	99.7	95.7	96.4	96.8	97.8
\$50,000 - \$74,999	99.5	99.9	99.6	99.9	98.3	98.3	100.0	100.0
\$75,000 +	98.7	99.5	98.8	99.5	95.6	100.0	99.0	100.0
1984 ANNUAL AVERAGE								
TOTAL	91.6	93.7	93.2	94.9	79.8	84.5	80.9	84.3
UNDER \$5,000	71.2	77.5	74.5	80.4	63.2	70.5	55.1	62.3
\$5,000 - \$7,499	83.3	86.9	85.5	88.7	74.8	80.2	69.8	73.6
\$7,500 - \$9,999	86.5	89.6	88.3	91.0	77.2	82.7	75.0	79.7
\$10,000 - \$12,499	89.7	92.6	91.1	93.6	81.1	86.3	79.7	84.6
\$12,500 - \$14,999	92.1	94.4	93.0	95.0	85.4	89.5	87.3	90.5
\$15,000 - \$17,499	93.7	95.7	94.2	96.0	88.5	92.2	88.4	90.0
\$17,500 - \$19,999	95.1	96.4	95.6	96.7	91.7	94.4	91.0	92.8
\$20,000 - \$24,999	96.8	97.8	97.1	98.0	93.3	95.8	92.5	94.5
\$25,000 - \$29,999	98.1	98.8	98.4	98.9	95.1	97.2	96.4	97.2
\$30,000 - \$34,999	98.7	99.1	98.8	99.3	96.8	97.2	98.8	99.1
\$35,000 - \$39,999	99.2	99.5	99.3	99.6	97.7	98.3	98.2	98.5
\$40,000 - \$49,999	99.3	99.6	99.4	99.7	96.6	96.9	98.9	99.3
\$50,000 - \$74,999	99.4	99.8	99.5	99.8	98.0	98.4	100.0	100.0
\$75,000 +	98.9	99.6	98.9	99.6	96.5	100.0	98.0	100.0
MARCH 85								
TOTAL	91.8	93.7	93.3	95.0	80.1	84.4	81.2	84.1
UNDER \$5,000	71.1	77.5	75.1	81.0	62.1	69.7	57.9	64.1
\$5,000 - \$7,499	82.5	86.1	85.0	88.1	72.0	77.6	65.9	70.8
\$7,500 - \$9,999	86.3	89.2	87.6	90.3	79.9	83.9	72.2	77.1
\$10,000 - \$12,499	89.5	92.2	90.7	93.1	81.5	86.0	85.1	86.6
\$12,500 - \$14,999	91.4	93.9	92.6	94.7	83.3	87.8	86.9	90.0
\$15,000 - \$17,499	93.7	95.8	94.6	96.3	88.1	92.0	85.8	88.5
\$17,500 - \$19,999	94.1	95.5	94.7	96.0	89.1	92.0	93.6	94.2
\$20,000 - \$24,999	96.2	97.2	96.4	97.3	93.3	95.5	88.8	91.0
\$25,000 - \$29,999	97.8	98.5	98.0	98.7	95.3	96.6	93.1	96.2
\$30,000 - \$34,999	98.6	99.0	98.8	99.0	97.3	98.3	97.8	97.8
\$35,000 - \$39,999	99.0	99.4	99.1	99.4	96.7	98.2	99.5	99.5
\$40,000 - \$49,999	98.9	99.2	99.0	99.3	97.0	98.0	97.4	97.4
\$50,000 - \$74,999	99.5	99.6	99.5	99.7	98.4	98.7	98.4	98.4
\$75,000 +	99.5	99.6	99.5	99.6	100.0	100.0	100.0	100.0

TABLE 1.5 (cont.)

## PERCENTAGE OF FAMILIES WITH A TELEPHONE BY FAMILY INCOME

	ALL RACES		WHITE		BLACK		HISPANIC ORIGIN	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
JULY 85								
TOTAL	91.8	93.9	93.2	95.0	81.6	85.8	80.3	83.3
UNDER \$5,000	72.0	77.9	74.9	80.7	64.5	71.1	60.7	65.8
\$5,000 - \$7,499	83.2	87.0	84.6	87.9	76.7	83.2	67.9	71.2
\$7,500 - \$9,999	86.9	90.8	87.7	91.1	82.3	88.1	76.0	78.1
\$10,000 - \$12,499	89.7	92.5	91.1	93.6	82.1	86.8	76.7	79.5
\$12,500 - \$14,999	91.0	93.6	92.6	94.9	80.2	84.6	79.2	83.2
\$15,000 - \$17,499	93.4	95.5	94.2	96.2	88.6	91.2	86.1	88.4
\$17,500 - \$19,999	94.5	96.1	94.8	96.5	91.9	93.0	87.1	89.8
\$20,000 - \$24,999	96.7	97.8	96.8	98.0	94.7	96.5	92.9	95.7
\$25,000 - \$29,999	97.1	98.1	97.4	98.2	94.4	97.0	91.5	95.2
\$30,000 - \$34,999	98.4	98.9	98.5	99.0	96.5	97.9	96.9	96.9
\$35,000 - \$39,999	98.7	99.2	98.8	99.4	98.4	98.4	95.8	98.6
\$40,000 - \$49,999	99.3	99.6	99.3	99.6	99.3	99.3	98.8	98.8
\$50,000 - \$74,999	99.3	99.7	99.4	99.7	97.7	98.8	100.0	100.0
\$75,000 +	99.0	99.4	99.0	99.4	100.0	100.0	95.6	95.6
NOVEMBER 85								
TOTAL	91.9	94.0	93.3	95.2	81.5	85.3	82.5	85.7
UNDER \$5,000	72.7	79.0	75.9	82.2	65.2	71.1	66.4	71.0
\$5,000 - \$7,499	82.5	86.3	84.7	88.2	73.3	78.6	65.9	71.9
\$7,500 - \$9,999	87.1	89.9	88.9	91.4	78.7	82.9	76.8	82.8
\$10,000 - \$12,499	89.6	92.0	90.5	93.1	83.3	85.2	79.3	82.4
\$12,500 - \$14,999	90.6	93.6	91.6	93.9	84.7	90.9	82.4	84.2
\$15,000 - \$17,499	93.1	95.5	93.8	96.1	88.0	92.1	85.3	89.0
\$17,500 - \$19,999	95.4	96.9	95.8	97.3	93.5	95.3	90.7	94.4
\$20,000 - \$24,999	96.0	97.4	96.1	97.5	95.1	96.8	92.3	94.4
\$25,000 - \$29,999	98.0	98.8	98.1	98.8	97.5	98.3	94.3	96.3
\$30,000 - \$34,999	98.7	99.1	98.8	99.2	98.2	98.9	97.3	97.3
\$35,000 - \$39,999	98.6	99.1	98.8	99.3	95.5	96.7	99.2	100.0
\$40,000 - \$49,999	99.0	99.3	99.1	99.4	97.0	97.3	96.3	98.3
\$50,000 - \$74,999	99.2	99.7	99.3	99.7	97.5	98.8	100.0	100.0
\$75,000 +	99.2	99.3	99.3	99.4	92.7	92.7	100.0	100.0
1985 ANNUAL AVERAGE								
TOTAL	91.8	93.9	93.3	95.0	81.1	85.2	81.3	84.4
UNDER \$5,000	71.9	78.1	75.3	81.3	63.9	70.6	61.6	67.0
\$5,000 - \$7,499	82.7	86.5	84.8	88.1	74.0	79.8	66.6	71.3
\$7,500 - \$9,999	86.8	90.0	88.1	90.9	80.3	85.0	75.0	79.4
\$10,000 - \$12,499	89.6	92.2	90.8	93.2	82.3	86.0	80.4	82.8
\$12,500 - \$14,999	91.0	93.7	92.2	94.5	82.7	87.8	82.8	85.8
\$15,000 - \$17,499	93.4	95.6	94.2	96.2	88.2	91.8	85.7	88.6
\$17,500 - \$19,999	94.7	96.2	95.1	96.6	91.5	93.4	90.4	92.8
\$20,000 - \$24,999	96.3	97.5	96.5	97.6	94.4	96.3	91.3	93.7
\$25,000 - \$29,999	97.6	98.5	97.8	98.6	95.8	97.3	93.0	95.9
\$30,000 - \$34,999	98.6	99.0	98.7	99.1	97.3	98.4	97.3	97.3
\$35,000 - \$39,999	98.8	99.2	98.9	99.4	96.9	97.8	98.2	99.4
\$40,000 - \$49,999	99.1	99.4	99.1	99.4	97.8	98.2	97.5	98.2
\$50,000 - \$74,999	99.3	99.7	99.4	99.7	97.9	98.8	99.5	99.5
\$75,000 +	99.2	99.5	99.2	99.5	97.6	97.6	98.5	98.5



TABLE 1.5 (cont.)

## PERCENTAGE OF FAMILIES WITH A TELEPHONE BY FAMILY INCOME

	ALL RACES		WHITE		BLACK		HISPANIC ORIGIN	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
MARCH 86								
TOTAL	92.2	93.9	93.6	95.0	82.0	85.8	81.5	83.9
UNDER \$5,000	71.1	76.9	74.0	79.3	63.8	71.1	56.7	61.3
\$5,000 - \$7,499	82.7	85.8	85.1	87.8	72.0	76.9	68.7	72.7
\$7,500 - \$9,999	87.6	90.0	88.8	90.8	82.1	86.4	72.1	73.9
\$10,000 - \$12,499	89.5	91.8	90.6	92.7	82.1	86.0	78.5	81.0
\$12,500 - \$14,999	91.3	94.1	92.0	94.7	87.6	90.9	84.6	90.0
\$15,000 - \$17,499	92.9	94.5	93.6	95.2	88.0	91.0	84.9	89.1
\$17,500 - \$19,999	94.6	96.0	95.2	96.4	90.1	92.8	86.1	88.8
\$20,000 - \$24,999	96.3	97.1	96.7	97.4	93.6	95.0	92.3	93.5
\$25,000 - \$29,999	97.2	98.0	97.7	98.3	91.6	94.0	92.5	92.5
\$30,000 - \$34,999	98.3	98.6	98.4	98.7	97.5	97.8	96.9	97.7
\$35,000 - \$39,999	98.9	99.2	99.1	99.3	98.1	98.1	100.0	100.0
\$40,000 - \$49,999	98.9	99.3	99.0	99.3	98.3	98.3	97.5	97.5
\$50,000 - \$74,999	99.5	99.7	99.5	99.7	99.3	99.3	100.0	100.0
\$75,000 +	99.3	99.4	99.3	99.4	100.0	100.0	98.5	100.0
JULY 86								
TOTAL	92.2	94.0	93.7	95.2	81.5	85.7	81.1	83.6
UNDER \$5,000	71.5	77.0	74.4	79.7	65.4	71.2	57.1	63.8
\$5,000 - \$7,499	82.6	86.1	85.0	87.9	73.8	79.2	64.9	68.6
\$7,500 - \$9,999	86.3	90.1	87.8	90.8	77.4	85.9	72.9	75.9
\$10,000 - \$12,499	89.6	92.4	90.8	93.2	82.9	87.3	80.9	81.9
\$12,500 - \$14,999	91.5	93.9	92.4	94.5	83.4	88.8	87.1	87.7
\$15,000 - \$17,499	93.1	95.2	94.3	95.8	84.2	90.6	86.9	88.9
\$17,500 - \$19,999	95.5	96.6	95.8	97.0	93.2	94.3	89.4	91.9
\$20,000 - \$24,999	96.6	97.6	97.0	98.0	92.1	94.0	94.5	95.0
\$25,000 - \$29,999	97.7	98.4	98.0	98.7	95.7	96.6	92.2	95.0
\$30,000 - \$34,999	98.3	98.8	98.5	99.0	96.6	97.8	98.0	98.7
\$35,000 - \$39,999	99.2	99.3	99.2	99.4	98.4	98.4	98.6	98.6
\$40,000 - \$49,999	99.1	99.4	99.1	99.4	99.0	99.0	98.1	98.9
\$50,000 - \$74,999	99.6	99.8	99.6	99.8	100.0	100.0	98.2	99.2
\$75,000 +	99.6	99.8	99.7	99.8	95.5	100.0	100.0	100.0
NOVEMBER 86								
TOTAL	92.4	94.4	93.8	95.5	81.3	86.1	81.6	84.7
UNDER \$5,000	72.3	78.3	76.3	81.3	62.6	70.9	58.9	63.7
\$5,000 - \$7,499	83.9	87.7	85.6	89.0	77.0	82.7	70.8	75.0
\$7,500 - \$9,999	86.8	90.4	88.7	91.6	76.3	83.2	73.8	77.7
\$10,000 - \$12,499	89.6	92.1	90.6	93.0	82.9	85.9	81.4	84.9
\$12,500 - \$14,999	90.8	93.6	91.3	94.0	88.1	91.3	80.0	85.7
\$15,000 - \$17,499	93.4	95.6	94.9	96.1	83.7	93.3	87.2	88.8
\$17,500 - \$19,999	94.6	96.4	94.9	96.6	93.4	95.6	86.0	89.7
\$20,000 - \$24,999	96.5	97.9	96.9	98.1	92.5	95.0	92.1	93.8
\$25,000 - \$29,999	98.2	98.9	98.4	99.0	96.2	97.1	97.0	98.1
\$30,000 - \$34,999	98.7	99.1	99.0	99.3	96.2	97.1	97.7	98.9
\$35,000 - \$39,999	98.6	99.3	98.8	99.4	96.5	97.2	95.8	99.2
\$40,000 - \$49,999	99.2	99.5	99.3	99.6	97.4	97.4	100.0	100.0
\$50,000 - \$74,999	99.5	99.7	99.6	99.8	99.0	99.0	100.0	100.0
\$75,000 +	99.3	99.7	99.3	99.7	98.6	98.6	93.9	100.0

TABLE 1.5 (cont.)

## PERCENTAGE OF FAMILIES WITH A TELEPHONE BY FAMILY INCOME

	ALL RACES		WHITE		BLACK		HISPANIC ORIGIN	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
1986 ANNUAL AVERAGE								
TOTAL	92.3	94.1	93.7	95.2	81.6	85.9	81.4	84.1
UNDER \$5,000	71.6	77.4	74.9	80.1	63.9	71.0	57.5	62.9
\$5,000 - \$7,499	83.1	86.5	85.2	88.2	74.3	79.6	68.1	72.1
\$7,500 - \$9,999	86.9	90.2	88.4	91.1	78.6	85.2	72.9	75.8
\$10,000 - \$12,499	89.6	92.1	90.7	93.0	82.6	86.4	80.3	82.6
\$12,500 - \$14,999	91.2	93.8	91.9	94.4	86.4	90.3	83.9	87.8
\$15,000 - \$17,499	93.1	95.1	94.3	95.7	85.3	91.6	86.3	88.9
\$17,500 - \$19,999	94.9	96.3	95.3	96.7	92.2	94.2	87.2	90.1
\$20,000 - \$24,999	96.5	97.5	96.9	97.9	92.8	94.6	93.0	94.1
\$25,000 - \$29,999	97.7	98.4	98.0	98.7	94.5	95.9	93.9	95.2
\$30,000 - \$34,999	98.4	98.9	98.6	99.0	96.7	97.5	97.5	98.4
\$35,000 - \$39,999	98.9	99.3	99.0	99.4	97.6	97.9	98.1	99.3
\$40,000 - \$49,999	99.1	99.4	99.1	99.4	98.2	98.2	98.5	98.8
\$50,000 - \$74,999	99.5	99.8	99.6	99.8	99.4	99.4	99.4	99.7
\$75,000 +	99.4	99.6	99.4	99.6	98.0	99.5	97.5	100.0
MARCH 87								
TOTAL	92.5	94.3	93.9	95.4	82.2	85.7	84.1	86.5
UNDER \$5,000	71.9	78.0	75.1	80.9	63.8	70.5	63.8	67.6
\$5,000 - \$7,499	83.6	86.7	85.3	87.9	76.8	81.9	69.5	73.0
\$7,500 - \$9,999	87.7	89.9	88.5	90.6	83.6	86.2	78.1	81.0
\$10,000 - \$12,499	89.4	92.0	90.5	93.1	81.4	85.2	78.9	82.1
\$12,500 - \$14,999	90.5	92.9	91.7	93.9	84.2	86.3	83.6	85.0
\$15,000 - \$17,499	92.4	94.7	93.3	95.6	85.8	88.6	83.7	88.9
\$17,500 - \$19,999	94.2	95.9	95.0	96.3	88.1	92.4	91.0	93.0
\$20,000 - \$24,999	96.6	97.4	97.1	97.9	93.5	94.6	94.1	95.1
\$25,000 - \$29,999	97.3	98.4	97.8	98.7	92.8	95.0	96.6	97.8
\$30,000 - \$34,999	98.1	98.7	98.3	98.9	96.0	96.4	96.5	97.5
\$35,000 - \$39,999	98.6	99.0	98.9	99.1	94.7	97.1	96.9	96.9
\$40,000 - \$49,999	99.4	99.7	99.4	99.7	99.6	99.6	99.6	99.9
\$50,000 - \$74,999	99.4	99.6	99.5	99.7	98.1	98.8	98.6	99.5
\$75,000 +	99.7	99.8	99.7	99.8	97.2	100.0	100.0	100.0
JULY 87								
TOTAL	92.3	94.2	93.7	95.3	82.0	86.0	83.1	85.2
UNDER \$5,000	70.7	75.9	74.1	78.7	63.8	70.5	58.0	62.7
\$5,000 - \$7,499	83.6	87.0	85.8	88.8	75.5	80.7	71.6	73.1
\$7,500 - \$9,999	86.5	89.6	88.1	90.8	78.8	83.7	76.6	79.0
\$10,000 - \$12,499	89.6	92.6	90.6	93.4	82.9	87.8	84.2	86.6
\$12,500 - \$14,999	91.2	93.7	92.3	94.4	83.6	88.8	86.3	88.4
\$15,000 - \$17,499	92.2	94.4	92.7	94.6	89.0	93.2	87.0	88.9
\$17,500 - \$19,999	94.8	96.2	95.8	97.0	88.1	91.0	87.7	87.7
\$20,000 - \$24,999	96.0	97.4	96.4	97.8	92.0	93.9	93.4	95.6
\$25,000 - \$29,999	97.6	98.4	98.1	98.8	93.7	95.2	98.7	98.7
\$30,000 - \$34,999	98.0	98.9	98.1	98.8	97.5	98.9	96.9	98.2
\$35,000 - \$39,999	98.8	99.2	98.8	99.2	97.8	98.9	96.8	96.8
\$40,000 - \$49,999	99.3	99.6	99.4	99.7	98.3	98.6	100.0	100.0
\$50,000 - \$74,999	99.4	99.8	99.4	99.9	99.4	99.4	97.6	99.1
\$75,000 +	99.4	99.8	99.4	99.7	100.0	100.0	97.2	100.0

TABLE 1.5 (cont.)

## PERCENTAGE OF FAMILIES WITH A TELEPHONE BY FAMILY INCOME

	ALL RACES		WHITE		BLACK		HISPANIC ORIGIN	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
NOVEMBER 87								
TOTAL	92.3	94.3	93.8	95.4	81.2	85.9	81.9	84.6
UNDER \$5,000	71.8	78.2	75.7	81.3	63.5	72.0	60.3	66.9
\$5,000 - \$7,499	82.9	86.5	85.6	88.7	72.2	78.0	68.5	71.0
\$7,500 - \$9,999	85.8	89.2	87.6	90.4	75.7	82.2	72.9	76.7
\$10,000 - \$12,499	89.4	92.3	90.1	92.9	85.5	89.4	80.0	83.7
\$12,500 - \$14,999	90.5	93.1	91.6	93.9	83.7	88.1	85.6	87.5
\$15,000 - \$17,499	93.3	95.5	94.5	96.2	85.8	90.6	86.1	88.4
\$17,500 - \$19,999	94.1	95.8	94.5	96.0	90.9	94.8	89.2	91.2
\$20,000 - \$24,999	96.8	98.0	97.0	98.1	95.1	96.7	92.0	94.0
\$25,000 - \$29,999	97.6	98.4	98.1	98.6	93.8	95.7	93.8	94.7
\$30,000 - \$34,999	98.1	99.0	98.5	99.2	94.8	96.4	97.4	97.4
\$35,000 - \$39,999	98.9	99.4	99.1	99.4	96.9	99.7	98.4	99.3
\$40,000 - \$49,999	99.5	99.6	99.6	99.7	98.0	98.0	99.4	99.4
\$50,000 - \$74,999	99.7	99.8	99.7	99.9	99.7	100.0	99.8	100.0
\$75,000 +	99.4	99.8	99.4	99.8	98.2	98.7	98.4	100.0
1987 ANNUAL AVERAGE								
TOTAL	92.4	94.2	93.8	95.4	81.8	85.9	83.0	85.4
UNDER \$5,000	71.5	77.4	75.0	80.3	63.7	71.0	60.7	65.7
\$5,000 - \$7,499	83.4	86.7	85.5	88.4	74.8	80.2	69.9	72.4
\$7,500 - \$9,999	86.7	89.6	88.1	90.6	79.3	84.0	75.8	78.9
\$10,000 - \$12,499	89.5	92.3	90.4	93.1	83.2	87.5	81.0	84.1
\$12,500 - \$14,999	90.8	93.2	91.9	94.1	83.8	87.7	85.2	86.9
\$15,000 - \$17,499	92.6	94.9	93.5	95.5	86.9	90.8	85.6	88.7
\$17,500 - \$19,999	94.4	96.0	95.1	96.4	89.0	92.7	89.3	90.6
\$20,000 - \$24,999	96.4	97.6	96.8	97.9	93.5	95.1	93.1	94.9
\$25,000 - \$29,999	97.5	98.4	98.0	98.7	93.4	95.3	96.4	97.1
\$30,000 - \$34,999	98.1	98.9	98.3	99.0	96.1	97.2	96.9	97.7
\$35,000 - \$39,999	98.8	99.2	98.9	99.3	96.5	98.6	97.4	97.7
\$40,000 - \$49,999	99.4	99.7	99.5	99.7	98.7	98.7	99.7	99.8
\$50,000 - \$74,999	99.5	99.8	99.5	99.8	99.1	99.4	98.7	99.6
\$75,000 +	99.5	99.8	99.5	99.8	98.5	99.6	98.6	100.0
MARCH 88								
TOTAL	92.9	94.6	94.2	95.7	82.7	86.3	82.6	85.7
UNDER \$5,000	72.3	78.1	75.2	81.1	65.5	71.6	59.4	67.0
\$5,000 - \$7,499	84.0	87.4	86.1	89.1	75.6	80.5	71.6	76.9
\$7,500 - \$9,999	85.8	89.0	86.8	90.1	79.9	83.1	63.0	69.0
\$10,000 - \$12,499	89.4	92.2	90.7	92.9	82.3	88.4	78.7	82.2
\$12,500 - \$14,999	91.2	93.1	92.2	94.0	83.7	86.5	82.7	83.6
\$15,000 - \$19,999	93.4	94.8	94.2	95.4	87.3	89.7	87.3	89.0
\$20,000 - \$24,999	96.4	97.7	96.6	97.9	94.3	95.9	91.6	95.1
\$25,000 - \$29,999	97.7	98.3	97.8	98.4	95.5	97.1	94.1	95.3
\$30,000 - \$34,999	98.1	98.7	98.6	99.1	92.6	94.9	97.5	97.5
\$35,000 - \$39,999	98.9	99.3	99.0	99.3	97.5	98.0	98.7	98.7
\$40,000 - \$49,999	99.2	99.7	99.2	99.6	97.6	100.0	99.1	99.1
\$50,000 - \$74,999	99.5	99.8	99.6	99.9	99.1	99.1	99.3	99.4
\$75,000 +	99.6	99.9	99.5	99.9	100.0	100.0	96.7	100.0

TABLE 1.0

## PERCENTAGE OF PERSONS WITH A TELEPHONE BY LABOR FORCE STATUS

	TOTAL		WHITE		BLACK		HISPANIC ORIGIN	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
NOVEMBER 83								
TOTAL CNP	92.8	94.5	94.1	95.6	82.7	86.6	83.4	86.5
EMPLOYED	94.1	95.9	95.0	96.6	85.7	89.8	86.3	89.6
UNEMPLOYED	82.5	86.5	84.8	88.1	74.6	81.2	76.6	79.9
NOT IN LABOR FORCE	92.1	93.4	93.8	94.9	80.8	83.7	80.4	83.0
MARCH 84								
TOTAL CNP	93.0	94.5	94.2	95.5	83.5	86.7	83.3	85.7
EMPLOYED	94.5	95.9	95.3	96.5	87.6	90.8	87.1	89.3
UNEMPLOYED	82.0	85.7	83.8	87.1	75.5	80.3	73.3	76.1
NOT IN LABOR FORCE	92.0	93.3	93.8	94.9	80.2	82.7	79.6	82.1
JULY 84								
TOTAL CNP	92.8	94.5	94.1	95.5	83.1	87.1	82.7	85.7
EMPLOYED	93.9	95.6	94.9	96.3	85.6	89.6	84.8	87.8
UNEMPLOYED	81.2	84.8	83.7	86.6	73.9	79.7	74.0	78.2
NOT IN LABOR FORCE	92.4	93.8	93.9	95.1	82.1	85.7	80.8	83.5
NOVEMBER 84								
TOTAL CNP	92.6	94.4	94.1	95.5	82.0	86.2	82.9	85.5
EMPLOYED	93.8	95.6	94.8	96.4	84.7	89.1	85.1	87.8
UNEMPLOYED	81.8	85.6	84.3	87.3	74.7	80.8	74.7	77.8
NOT IN LABOR FORCE	92.0	93.4	93.8	95.0	79.8	83.2	80.6	82.9
1984 ANNUAL AVERAGE								
TOTAL CNP	92.8	94.5	94.1	95.5	82.9	86.7	83.0	85.6
EMPLOYED	94.0	95.7	95.0	96.4	85.9	89.8	85.7	88.3
UNEMPLOYED	81.7	85.3	84.0	87.0	74.7	80.2	74.0	77.4
NOT IN LABOR FORCE	92.1	93.5	93.8	95.0	80.7	83.9	80.3	82.8
MARCH 85								
TOTAL CNP	93.0	94.5	94.2	95.5	83.5	86.8	83.3	85.4
EMPLOYED	94.3	95.8	95.1	96.4	87.1	90.2	85.1	87.4
UNEMPLOYED	82.9	86.0	84.6	87.1	76.1	81.3	72.6	75.1
NOT IN LABOR FORCE	92.1	93.5	93.8	94.9	80.2	83.4	82.5	84.3

## PERCENTAGE OF PERSONS WITH A TELEPHONE BY LABOR FORCE STATUS

	TOTAL		WHITE		BLACK		HISPANIC ORIGIN	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
JULY 85								
TOTAL CNP	92.9	94.6	94.0	95.5	84.5	87.9	82.9	85.0
EMPLOYED	94.0	95.8	94.8	96.4	87.4	90.6	84.5	86.5
UNEMPLOYED	83.6	87.3	85.5	88.7	78.0	83.0	77.9	80.7
NOT IN LABOR FORCE	92.2	93.6	93.6	94.8	82.0	85.1	81.1	83.5
NOVEMBER 85								
TOTAL CNP	93.1	94.7	94.3	95.7	84.4	87.4	84.2	86.9
EMPLOYED	94.4	96.0	95.2	96.6	87.5	90.5	85.8	88.7
UNEMPLOYED	80.5	84.3	82.4	86.0	74.9	79.0	70.9	74.9
NOT IN LABOR FORCE	92.3	93.7	93.9	95.1	82.2	85.1	84.2	86.0
1985 ANNUAL AVERAGE								
TOTAL CNP	93.0	94.6	94.2	95.6	84.1	87.4	83.5	85.8
EMPLOYED	94.2	95.8	95.0	96.5	87.3	90.4	85.1	87.5
UNEMPLOYED	82.3	85.8	84.2	87.3	76.3	81.1	73.8	76.9
NOT IN LABOR FORCE	92.2	93.6	93.8	94.9	81.5	84.5	82.6	84.6
MARCH 86								
TOTAL CNP	93.4	94.7	94.5	95.6	84.9	87.8	83.4	85.1
EMPLOYED	94.6	95.8	95.4	96.4	88.3	91.0	85.1	86.9
UNEMPLOYED	82.7	86.1	85.1	88.0	74.6	80.2	73.6	75.3
NOT IN LABOR FORCE	92.7	93.8	94.2	95.1	82.4	85.0	82.5	84.1
JULY 86								
TOTAL CNP	93.4	94.8	94.6	95.7	84.4	87.9	83.2	85.1
EMPLOYED	94.8	96.1	95.6	96.8	87.3	90.9	85.4	87.3
UNEMPLOYED	82.2	85.9	84.1	87.4	75.7	80.8	79.0	80.1
NOT IN LABOR FORCE	92.3	93.6	93.8	94.8	82.3	85.2	79.9	82.2
NOVEMBER 86								
TOTAL CNP	93.4	95.1	94.6	95.9	84.5	88.5	83.4	86.1
EMPLOYED	94.6	96.2	95.4	96.7	87.7	91.4	85.4	87.9
UNEMPLOYED	81.9	86.0	84.2	87.6	74.1	81.0	73.3	79.2
NOT IN LABOR FORCE	92.8	94.2	94.3	95.4	82.3	85.9	81.7	84.0

TABLE 1.6 (cont.)

## PERCENTAGE OF PERSONS WITH A TELEPHONE BY LABOR FORCE STATUS

	TOTAL		WHITE		BLACK		HISPANIC ORIGIN	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
1986 ANNUAL AVERAGE								
TOTAL CNP	93.4	94.8	94.6	95.8	84.6	88.1	83.3	85.4
EMPLOYED	94.7	96.1	95.5	96.6	87.7	91.1	85.3	87.4
UNEMPLOYED	82.3	86.0	84.5	87.6	74.8	80.7	75.3	78.2
NOT IN LABOR FORCE	92.6	93.9	94.1	95.1	82.3	85.4	81.4	83.4
MARCH 87								
TOTAL CNP	93.6	95.0	94.8	95.9	85.0	87.9	85.5	87.3
EMPLOYED	94.8	96.1	95.6	96.7	88.6	91.1	86.7	88.6
UNEMPLOYED	84.1	87.1	86.7	89.3	75.5	80.1	82.8	84.9
NOT IN LABOR FORCE	92.8	94.0	94.3	95.2	82.0	85.2	83.9	85.5
JULY 87								
TOTAL CNP	93.4	94.9	94.6	95.8	85.2	88.4	84.5	86.3
EMPLOYED	94.4	96.0	95.3	96.6	87.4	90.7	86.4	88.2
UNEMPLOYED	83.9	87.3	85.9	89.1	77.5	82.1	77.1	80.5
NOT IN LABOR FORCE	92.7	93.7	94.1	94.9	83.3	86.1	82.1	83.6
NOVEMBER 87								
TOTAL CNP	93.4	94.9	94.6	95.9	84.1	87.9	83.5	85.7
EMPLOYED	94.6	96.1	95.4	96.7	87.8	91.2	85.8	88.1
UNEMPLOYED	80.0	83.8	83.3	86.3	69.2	75.6	71.2	73.5
NOT IN LABOR FORCE	92.6	94.0	94.3	95.3	81.2	85.1	81.6	83.3
1987 ANNUAL AVERAGE								
TOTAL CNP	93.5	94.9	94.7	95.9	84.7	88.1	84.5	86.4
EMPLOYED	94.6	96.1	95.4	96.7	87.9	91.0	86.3	88.3
UNEMPLOYED	82.7	86.1	85.3	88.2	74.0	79.3	77.0	79.6
NOT IN LABOR FORCE	92.7	93.9	94.2	95.2	82.2	85.5	82.5	84.1
MARCH 88								
TOTAL CNP	93.8	95.2	95.0	96.2	84.8	87.7	83.8	86.4
EMPLOYED	95.2	96.4	95.9	97.0	88.5	91.3	86.5	88.8
UNEMPLOYED	83.2	86.2	86.0	88.6	74.2	78.8	74.6	77.8
NOT IN LABOR FORCE	92.6	94.0	94.2	95.4	81.5	84.3	80.4	83.5

CHART 1.2

Percent with Telephone

# Telephone Penetration

Individuals

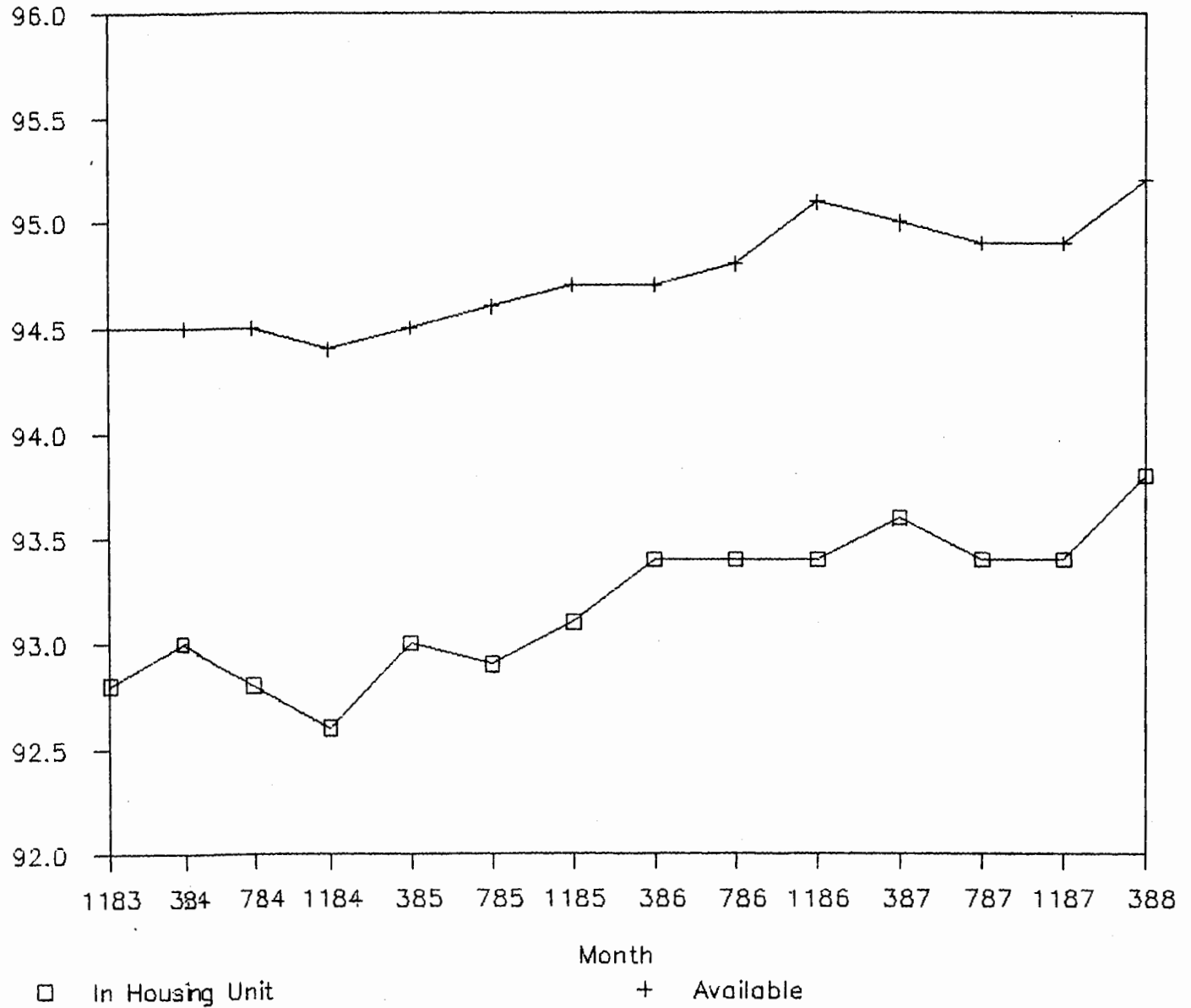


TABLE 1.7

## Critical Values for Determining Significant Differences for States

<u>State</u>	<u>In Unit</u>	<u>Available</u>
Total US	0.5%	0.5%
Alabama	3.6	3.4
Alaska	5.3	4.5
Arizona	4.4	4.3
Arkansas	5.8	4.8
California	1.6	1.4
Colorado	3.3	3.0
Connecticut	2.9	1.8
Delaware	3.2	2.7
Dist. of Columbia	3.8	2.8
Florida	2.9	2.8
Georgia	4.9	4.5
Hawaii	2.7	2.1
Idaho	4.1	3.4
Illinois	2.1	1.8
Indiana	3.3	2.7
Iowa	3.0	2.3
Kansas	2.5	2.3
Kentucky	5.2	4.8
Louisiana	4.2	3.7
Maine	3.8	3.2
Maryland	3.2	2.7
Massachusetts	2.5	2.3
Michigan	2.6	2.2
Minnesota	2.6	2.4
Mississippi	4.9	4.5
Missouri	3.6	2.9
Montana	5.2	4.3
Nebraska	3.3	3.0
Nevada	5.0	4.3
New Hampshire	4.0	3.4
New Jersey	2.4	2.1
New Mexico	5.8	4.5
New York	2.1	1.9
North Carolina	3.9	3.4
North Dakota	3.9	3.5
Ohio	2.2	1.9
Oklahoma	3.8	3.6



TABLE 1.7 (cont.)

<u>State</u>	<u>In Unit</u>	<u>Available</u>
Oregon	3.5	3.0
Pennsylvania	1.6	1.3
Rhode Island	3.0	2.5
South Carolina	6.2	5.3
South Dakota	3.7	3.5
Tennessee	4.8	4.3
Texas	2.6	2.3
Utah	4.5	4.5
Vermont	5.4	4.6
Virginia	4.0	3.4
Washington	4.0	3.9
West Virginia	4.5	3.9
Wisconsin	3.2	3.0
Wyoming	4.6	3.9

TABLE 1.8

## Critical Values for Determining Significant Differences for Age and Race

	ALL RACES		WHITE		BLACK		HISPANIC	
	<u>In Unit</u>	<u>Avail- able</u>	<u>In Unit</u>	<u>Avail- able</u>	<u>In Unit</u>	<u>Avail- able</u>	<u>In Unit</u>	<u>Avail- able</u>
Total Households	0.5%	0.5%	0.5%	0.5%	2.2%	1.9%	4.9%	4.4%
16 - 24 Yrs old	1.6%	1.4%	1.6%	1.5%	5.5%	5.5%	10.6%	10.2%
25 - 54 Yrs old	0.7%	0.6%	0.7%	0.6%	2.7%	2.4%	6.0%	5.4%
55 - 59 Yrs old	2.1%	1.8%	2.1%	1.8%	8.8%	7.6%	21.0%	19.0%
60 - 64 Yrs old	2.1%	1.8%	2.1%	1.8%	9.4%	8.1%	25.0%	22.4%
65 - 69 Yrs old	2.3%	2.0%	2.3%	1.9%	10.1%	8.8%	30.1%	26.7%
70 - 99 Yrs old	1.6%	1.4%	1.6%	1.4%	7.9%	6.7%	23.6%	21.2%

TABLE 1.9

## Critical Values for Determining Significant Differences for Household Size

	ALL RACES		WHITE		BLACK		HISPANIC	
	<u>In Unit</u>	<u>Avail- able</u>	<u>In Unit</u>	<u>Avail- able</u>	<u>In Unit</u>	<u>Avail- able</u>	<u>In Unit</u>	<u>Avail- able</u>
Total	0.5%	0.5%	0.5%	0.5%	2.2%	1.9%	4.9%	4.4%
1 Person	1.1%	1.0%	1.1%	1.0%	4.1%	3.7%	11.9%	11.1%
2 - 3	0.8%	0.7%	0.8%	0.7%	3.4%	3.0%	7.5%	6.9%
4 - 5	1.1%	1.0%	1.2%	1.0%	4.6%	4.1%	8.8%	8.0%
6 +	2.5%	2.2%	2.8%	2.4%	7.7%	6.9%	13.9%	12.5%

TABLE 1.10

## Critical Values for Determining Significant Differences for Income

		ALL RACES		WHITE		BLACK		HISPANIC	
		<u>In</u>	<u>Avail-</u>	<u>In</u>	<u>Avail-</u>	<u>In</u>	<u>Avail-</u>	<u>In</u>	<u>Avail-</u>
		<u>Unit</u>	<u>able</u>	<u>Unit</u>	<u>able</u>	<u>Unit</u>	<u>able</u>	<u>Unit</u>	<u>able</u>
Total		0.5%	0.5%	0.5%	0.5%	2.2%	1.9%	4.8%	4.4%
Under	\$5,000	1.3%	1.2%	1.5%	1.4%	3.4%	3.2%	9.0%	8.7%
	\$5,000 - \$7,499	1.7%	1.5%	1.8%	1.6%	5.5%	5.0%	11.6%	10.7%
	\$7,500 - \$9,999	2.0%	1.7%	2.0%	1.8%	7.2%	6.5%	14.5%	13.4%
	\$10,000 - \$12,499	1.9%	1.6%	1.9%	1.7%	7.3%	6.5%	16.4%	15.1%
	\$12,500 - \$14,999	2.1%	1.8%	2.1%	1.8%	8.5%	7.5%	18.7%	16.9%
	\$15,000 - \$17,499	2.2%	1.9%	2.2%	2.0%	9.2%	8.1%	19.6%	18.0%
	\$17,500 - \$19,999	2.3%	2.0%	2.3%	2.0%	10.5%	9.2%	20.5%	18.4%
	\$20,000 - \$24,999	1.7%	1.5%	1.7%	1.5%	9.1%	7.8%	16.9%	15.3%
	\$25,000 - \$29,999	1.9%	1.7%	1.9%	1.6%	10.8%	9.3%	22.4%	20.0%
	\$30,000 - \$34,999	2.0%	1.8%	2.0%	1.7%	12.5%	10.7%	24.7%	22.1%
	\$35,000 - \$39,999	2.4%	2.1%	2.4%	2.0%	15.4%	13.3%	28.6%	25.5%
	\$40,000 - \$49,999	2.2%	1.9%	2.1%	1.8%	15.3%	12.9%	29.3%	26.0%
	\$50,000 - \$74,999	2.3%	1.9%	2.2%	1.9%	16.4%	13.9%	32.1%	28.7%
	\$75,000 +	3.5%	3.0%	3.3%	2.8%	44.6%	38.0%	54.5%	49.0%

TABLE 1.11

Critical Values for Determining Significant Differences for Employment Status

	ALL RACES		WHITE		BLACK		HISPANIC	
	<u>In Unit</u>	<u>Avail- able</u>	<u>In Unit</u>	<u>Avail- able</u>	<u>In Unit</u>	<u>Avail- able</u>	<u>In Unit</u>	<u>Avail- able</u>
Total CNP	0.8%	0.7%	0.8%	0.7%	3.2%	2.8%	7.4%	6.7%
Employed	1.0%	0.9%	1.0%	0.9%	4.0%	3.5%	9.9%	9.0%
Unemployed	3.1%	2.8%	3.4%	3.0%	9.1%	8.3%	25.4%	23.3%
Not in Labor Force	1.3%	1.1%	1.3%	1.1%	5.1%	4.4%	12.0%	10.9%

## ATTACHMENT II

### SUMMARY OF DISCONNECT AND SUBSCRIBERSHIP STUDIES

#### Ameritech

Ameritech chose Wisconsin Bell territory as the study area for its disconnect study. It submitted comparative data for April, May, and June 1987, prior to the latest subscriber line charge (SLC) increase, and for July, August, and September 1987 after the SLC increase. It reports the following results of its study: (1) The July 1 SLC increase has not caused any discernable change in the number of disconnects. (2) Customers disconnecting voluntarily for economic reasons account for only 1% of all disconnected customers. Of these, less than 1% subscribed to the lowest-priced basic service available. (3) The only tariff rate changes during this period were the SLC increase and the interstate toll rate decrease. (4) Customers disconnected for economic or involuntary reasons spent more on discretionary services, including toll, than on basic service.

#### Bell Atlantic

Bell Atlantic chose Chesapeake and Potomac of Virginia territory for its disconnect study. It submitted comparative data for June 1987 before the SLC increase, and for August, September, and October 1987 after the SLC increase. It reports the following results from its study: (1) 97% of the customers involuntarily disconnected could have subscribed to a less expensive class of service and potentially saved more than the SLC. (2) Nearly all customers disconnected for economic or involuntary reasons spent more than the full SLC on toll calling. (3) The number of involuntary disconnects increased during the four months of the study; however, the available data does indicate that this has not occurred as a result of the SLC increase, since toll bills for disconnected customers increased by a greater amount. (4) Economic and involuntary disconnects appear to be primarily due to toll charges that the customers could not afford.

#### BellSouth

BellSouth's disconnect study used Southern Bell territory in all four states (Florida, Georgia, North Carolina, and South Carolina) that it serves. It submitted comparative data for April, May, and June 1987 before the SLC increase, and July, August, and September 1987 after the SLC increase. It reports the following results from its study: (1) The monthly variation in disconnects appears to be seasonal and unrelated to the SLC increase. (2) Customers disconnected for economic or involuntary reasons had toll charges that were substantially higher than the average for current customers. (3) Involuntarily disconnected customers in low income areas had toll charges that were on the average more than twice as high as toll charges of current customers in those areas.

## GTE

GTE used the Tampa exchange of GTE Florida for its disconnect study. It submitted comparative data for June (and partial data for May) 1987 before the SLC increase, and July, August, and September 1987 after the SLC increase. It provides little analysis of its data but does note that the substantial increase in involuntary disconnections was the result of intensified bill collection efforts during the months covered by the data.

## NYNEX

NYNEX chose New York Telephone territory for its disconnect study. It submitted comparative data for April, May, and June 1987 before the SLC increase, and July through December 1987 after the SLC increase. It reports the following results of its study: (1) The SLC increase has had no adverse effect on the number of subscribers who disconnect from the network. (2) Customers who voluntarily disconnect for economic reasons account for less than 1% of all disconnects, even in low income areas. (3) Customers who disconnect for involuntary and voluntary economic reasons generally have high charges for discretionary services. (4) The percentage of customers disconnected voluntarily and involuntarily declined between October and December.

## Pacific Telesis

Pacific Telesis provided disconnect information for both of its operating companies, Nevada Bell and Pacific Bell. For Nevada Bell it submitted data on the number of disconnects from April through December 1987, and bill composition data for September through December 1987. It notes that in Nevada the July 1, 1987, SLC increase was offset for six months by an equal intrastate credit, thus effectively delaying the impact of the SLC increase until January 1, 1988. Hence, all of the Nevada data should be regarded as benchmark data. The Pacific Bell disconnect data for California includes information on the number of voluntary and involuntary disconnects from January 1986 through November 1987. It also submitted partial billing information for a 5% sample of accounts for disconnected Pacific Bell customers for April, May, and June 1987 before the SLC increase, and July, August, and September 1987 after the SLC increase, as well as for a 5% sample of current customers in June and September 1987. It reports the following results of its study: (1) Voluntary disconnects follow a strong seasonal pattern with a peak in June. Involuntary disconnects have substantially less seasonal variation, but there is a peak in January. This seasonality must be considered in evaluating economic changes. (2) There has been a growth in total disconnects from 1986 to 1987, but this can be explained by the increase in the number of access lines. (3) Involuntary disconnects have decreased from 1986 to 1987. (4) Voluntary disconnects have increased from 1986 to 1987, but this can be explained by the increase in

access lines. (5) There was no notable increase in disconnects after July 1987; thus, it appears that the SLC increase had no noticeable effect.

### Southwestern Bell

Southwestern Bell chose its territory in Arkansas as the study area for its disconnect study. It submitted comparative data for May and June 1987 before the SLC increase, and July, August, and September 1987 after the SLC increase. It supplemented its company records with a survey of disconnected customers. It reports the following results of its study: (1) There was little difference in the survey results before and after the SLC increase. (2) Substantially more of those surveyed cited the high cost of long distance calls than the cost of local service as the reason for being disconnected. (3) About one-third of all disconnects were involuntary for nonpayment. Only 2% disconnected voluntarily for economic reasons. There were more new customers than disconnects, causing the total number of residential subscribers to increase slightly. (4) There was little difference in customer bills before and after the SLC increase. (5) Customers disconnected involuntarily or voluntarily for economic reasons had higher total bills than current customers or those disconnected for voluntary non-economic reasons. (6) Customers disconnected involuntarily or voluntarily for economic reasons spent significantly more on other local services such as Touch-Tone and Custom Calling. (7) Disconnected customers with higher incomes used more toll than disconnected customers with lower incomes.

### US West

US West chose Mountain States Telephone and Telegraph territory in Arizona as the study area for its disconnect study. It submitted data for August, September, and October 1987. No data from before the SLC increase was available. It supplemented its company records with a sample survey of disconnected customers. It reports the following results of its study: (1) 84% of disconnected customers were disconnected because they moved. (2) Most of those disconnected for non-payment moved without paying their final bill. (3) Only about 5% of all disconnects were for economic reasons. (4) Only one customer in the survey identified the SLC as the reason for disconnecting. (5) No customers disconnected lifeline service during the study period. (6) Reasons given for disconnecting in the survey generally matched those given by the service representative. (7) Only 6% of the surveyed disconnected customers understood the purpose of the SLC. (8) Those disconnected voluntarily for economic reasons had higher average intra-LATA toll charges than other groups, while their basic local service charges and subscriber line charges were the same.

### Public Service Commission of the District of Columbia

The Public Service Commission of the District of Columbia (DCPSC) submitted an analysis of telephone penetration data for D.C., based on the CPS data and other information from C&P Telephone Co. Since CPS data began being collected in November 1983, DCPSC notes that penetration rates have declined in D.C., while the price of local telephone service increased substantially in January 1984 and January 1986. DCPSC notes that the decreases in penetration were largest for low-income households. It estimates the price elasticity of demand for telephone service as being between 0 and .2.

### Florida Public Service Commission

The Florida Public Service Commission submitted two studies, Florida Residential Demand for Local Telephone Service and Residential Telephone Demand in Small Company Service Territories. The first of these is an econometric study of telephone penetration in Florida, using 1980 Census data. Its findings include: (1) Residential demand for local service is price inelastic. (2) Penetration is much lower for low income customers and in rural areas than for the state as a whole. (3) Penetration is highest for households headed by persons over 65 and lowest for those headed by the youngest people. (4) Penetration is positively related to education. (5) Blacks have lower penetration rates than others. (6) Households headed by single males have lower penetration rates than others. The study concludes with demand estimates for individual large companies in Florida. The second study analyzes the penetration rates for the smaller telephone companies in Florida. It concludes that their lower penetration rates are due largely to lower incomes in their service territories as well as demographic factors associated with lower penetration rates. It also indicates that small local calling areas may contribute to low penetration rates for some small companies.

### Washington Utilities and Transportation Commission

The Washington Utilities and Transportation Commission reports the results of a survey of telephone subscribers conducted by Washington State University. Its findings include: (1) Most Washington residents are satisfied with their telephone service. The area creating the most problems was understanding their telephone bills. (2) There were noteworthy differences between urban and rural areas on a number of telephone service issues. Residents of rural areas are more likely to have party lines and less likely to have Touch-Tone and other advanced services and technologies. Rural residents are more likely to have to call long distance to obtain essential community services. Rural residents also are more likely to say that they will disconnect if their phone bill is increased substantially. (3) Some policy issues were proposed, with the following receiving strong



statewide support: to allow telephone companies to provide cable TV service in rural areas; to keep rates low for low-income people by adding a small surcharge to other customers' bills; and to subsidize special telecommunication devices for the deaf with a similar surcharge. Significant opposition was expressed to two other policy proposals. They were the introduction of local measured service and the abolition of flat-rate service. (4) A majority of Washington residents felt the breakup of AT&T was a bad idea. However, opposition to the breakup was not reflected in the evaluation of the telephone service they receive. (5) Improvements in telecommunications services are considered to be less important by Washington residents than improvements in roads and highways. However, telephone service improvement was felt to be a necessary investment in the future.

## 2. Lifeline Assistance Plans

To further the universal service objectives of the Communications Act, the Joint Board and the FCC established lifeline assistance programs to ensure that low income subscribers do not drop off the telephone network, and additionally to encourage new subscribers to obtain service. This section discusses the three federal lifeline plans and the various state programs implemented in response to those federal programs to date. This section does not discuss the many state programs that are unrelated to the federal lifeline programs. Attachment I is a report from NECA on projected costs on a state-by-state basis for implementing lifeline assistance in 1988. Attachment II provides a summary of the annual reports, required by the Commission to recertify existing lifeline and Link Up America programs, <sup>1</sup> which have thus far been received. The reports include eligibility, participation, and cost data reported by the states of Maryland, North Carolina, Vermont, Washington, and West Virginia, and by the Ameritech, Bell Atlantic, NYNEX, Southwestern Bell, and US West telephone companies.

Because participating states and telephone companies have wide latitude in selecting means tests, eligibility criteria, and in shaping the benefits of the programs, and because no uniform reporting form has heretofore been required, existing reports do not fully describe the impact of these programs. To improve the evaluation measures required of certified states and telephone companies, a new annual reporting form has been developed. Attachment III is a copy of the annual cost report that will be filed by FCC certified local telephone companies and state commissions. Attachment IV provides summary data indicating the percentage of total residential service customers enrolled in lifeline programs which were in effect by the second quarter of 1987.

The FCC, in conjunction with the states and local telephone companies, has established lifeline programs which are designed to promote universal service by helping low income or disadvantaged individuals afford telephone service. The programs are funded through charges ultimately paid by interstate ratepayers, are managed by the states, and may take the form of a reduction in monthly charges or a reduction in service connection and

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1 MTS and WATS Market Structure and Amendment of Part 67 of the Commission's Rules and Establishment of a Joint Board, Decision and Order, CC Docket Nos. 78-72 and 80-286 (para 5) FCC 85-643, 51 Fed. Reg. 1371 (January 13, 1986); and Establishment of a Program to Monitor the Impact of Joint Board Decision, Order, CC Docket No. 87-339, 2 FCC Rcd 5266 (1987).

installation charges. After state programs are certified by the FCC, local exchange carriers receive additional revenues from interexchange carriers to cover the cost of the program. These revenues are not funded by federal tax dollars. Under these programs, lifeline benefits are only available to persons who pass a "means" test such as eligibility for food stamps or Medicaid. A second requirement for FCC certification is that each applicant's eligibility for benefits be verified. The state has considerable latitude in selecting means tests, shaping the benefits, and determining the geographic availability of the programs.

Based on the recommendation of the Federal-State Joint Board, the FCC has made available the following three federal lifeline assistance plans:

Plan 1- On December 19, 1984, the FCC adopted an optional plan which allows a reduction in fixed charges for telephone service equal to the federal subscriber line charge (SLC) for low income households satisfying a state determined means test subject to verification. This is accomplished by a 50% reduction in the SLC funded through the interstate carrier common line charge (CCLC). States wishing to take advantage of this assistance mechanism are required to implement an equal monetary reduction in the local exchange rate for those low income households to be funded from state sources. The assistance would be available for a single telephone line for the principal residence of eligible households.

Plan 2- On December 10, 1985, the FCC adopted broader lifeline assistance measures for low income households providing for a reduction in fixed charges for telephone service of twice the size of the SLC. This reduction would be achieved through a waiver of the full federal SLC up to the amount matched by state assistance, provided that the state plans meet the following federal requirements:

a) means test -- highly targeted assistance plan which focuses on those individuals on limited incomes;

b) subject to verification -- procedures must be established which routinely check to ensure that those individuals eligible under the plans are the individuals benefitting under the plan;

c) availability -- for a single telephone line for the principal residence of eligible households.

The state matching contribution can be in the form of reduced local telephone service rates, reduced connection charges or

deposit requirements. No restrictions are imposed on the source of funding for the state assistance. The federal assistance is to be funded by the carriers through the interstate CCLC.

Plan 3- On April 16, 1987, the FCC adopted a two part plan, Link Up America, to connect low income households to the telephone network. Under the first part, sufficient federal assistance will be provided to pay one-half of the connection charges, up to a maximum of \$30.00 in benefits to cover charges assessed for commencing telephone service. Under the second part, when a local exchange company (LEC) offers a deferred payment plan not to exceed 12 months for service commencement charges and it does not assess the subscribers any interest charges, federal assistance will be available to that LEC to cover the interest on costs of up to \$200.

Connection assistance will be available for one telephone line per household, at a subscriber's principal place of residence. Before receiving federal assistance, a plan must meet the following criteria to ensure that the assistance is properly targeted: 1) the customer requesting assistance has lived at an address or addresses where there has been no telephone service for at least three months immediately prior to the request for assistance; 2) assistance is available, at most, once every two years; 3) the customer cannot be a dependent (as defined by the federal income tax code) under the age of 60; and 4) the customer must meet state-determined income criteria. The first two criteria are to be verified by using LEC records. The final two criteria may be self-certified. If a state determines, however, that verification of criteria #1 and #2 is administratively or economically impractical for a LEC, that the necessary information must be provided by a LEC or agency outside the state, or that other specified circumstances exist, then self-certification of these criteria will be allowed and criterion #4 must be verified by the state or LEC.

States are encouraged, but not required, to match the federal benefits and cover the remaining half of the connection charges. The states and LECs are encouraged to develop deferred payment plans for service commencement charges as well as to provide reductions in, or waivers of, security deposit requirements for low income customers who do not have poor credit histories.

Federal assistance is to be funded through the interstate CCLC until April 1989, at which time all three lifeline assistance

plans will be funded through direct billing of the interexchange carriers (IXCs) by NECA. IXCs will be responsible for paying lifeline assistance if they have at least 1) 1% of the "1+" or "presubscribed" common lines presubscribed to interexchange carriers in all study areas, or 2) 5% of the presubscribed lines in any study area and a minimum of 1,000 presubscribed lines in that study area.

On June 23, 1988, the FCC adopted a Notice of Proposed Rule Making which proposed eliminating the requirement that consumers requesting to be included in the Link Up America program have lived at an address where there has not been telephone service for the last three months and have not received Link Up benefits in the last two years. This Notice was adopted in response to waiver requests from the States of Maine and New York. Some telephone companies have declined to participate in the program due to the existence of non-means-based eligibility criteria. The Commission is concerned that the three-month and two-year eligibility rules are discouraging participation in Link Up America. Data from a pilot program indicate that approximately 15 percent of Link Up applicants have been rejected for failure to meet the three-month rule. Therefore, the Commission proposed eliminating these rules for states and telephone companies that verify income eligibility but retaining them in cases where income eligibility is not verified.

Two states, California and New York, have been offering a lifeline assistance program pursuant to Plan 1 since January 1985. New York switched to Plan 2 in November 1987. Twenty-two states and the District of Columbia have been certified to offer lifeline assistance pursuant to Plan 2. At this time, thirty states and the District of Columbia have been certified by the FCC to provide lifeline connection assistance under the Link Up America Program, Plan 3, which became effective July 1, 1987. Table 2.1 provides a complete listing of all approved state programs offering assistance under Plans 2 and 3, and the dates of FCC certification.

TABLE 2.1

LIFELINE & LIFELINE CONNECTION ASSISTANCE PROGRAMS  
DATE OF APPROVAL

STATE	APPROVED LIFELINE	APPROVED LINK UP
1 - Alabama		10/01/87
2 - Arizona	11/14/86	1/15/88
3 - Arkansas	5/22/86	10/01/87
4 - Colorado	7/25/86	11/13/87
5 - Connecticut		11/13/87
6 - District of Columbia	3/18/86	8/19/87
7 - Hawaii	10/27/86	
8 - Idaho	7/24/87	
9 - Indiana		4/25/88
10 - Iowa		3/10/88
11 - Kansas		1/27/88
12 - Kentucky		12/24/87
13 - Maine	8/11/87	8/11/87*
14 - Maryland	5/22/86	10/01/87
15 - Minnesota	1/27/88	1/27/88
16 - Mississippi		4/27/88
17 - Missouri	10/01/87	12/28/87
18 - Montana	8/11/87	8/11/87
19 - Nebraska		3/17/88
20 - Nevada	4/28/87	
21 - New Jersey		11/13/87
22 - New Mexico	4/01/87	1/15/88
23 - New York	11/02/87	8/11/87
24 - North Carolina	5/22/86	10/19/87
25 - North Dakota		12/24/87
26 - Ohio	7/01/87	10/01/87
27 - Oregon	5/22/86	5/05/88
28 - Rhode Island	9/21/87	9/21/87
29 - South Carolina		12/24/87
30 - South Dakota	3/25/88	3/25/88
31 - Texas		10/01/87
32 - Utah	12/31/86	3/17/88
33 - Vermont	10/01/86	
34 - Virginia	12/24/87	12/24/87
35 - Washington	7/24/87	
36 - West Virginia	7/25/86	9/11/87

\* Approved but not implemented.

A brief summary of Plan 2 being offered in each of these states follows. It should be noted that South Dakota has been added to this listing since our March report.

-Arizona: established a three year telephone Assistance Pilot Program that targets individuals at or below 150% of federal poverty guidelines. State assistance includes coverage of all costs of flat-rate unlimited local calling, wire and line maintenance fee, and a one-time upgrade of service (not to exceed a value of \$27.50). A telephone rental for a monthly fee of \$2.25 is also offered. All applicants are state interviewed and certified annually. The program was approved on November 14, 1986.

-Arkansas: established a Lifeline Measured Rate service available to residential ratepayers who meet the criteria of the federal food stamp program. The local program has been in effect since September 1984 and provides an estimated average benefit of \$4.10 per month per subscriber, independent of the waiver of the subscriber line charge.

-Colorado: enacted legislation effective September 1, 1986, to establish the Colorado low-income Telephone Assistance Program through revised state statutes. The law provides single-line dial-tone and flat-rate service in a principal residence at the equivalent of a twenty-five percent discount. Eligible subscribers are state social service recipients of financial assistance programs for the elderly and low-income disabled persons who qualify for supplemental security income under federal programs.

-District of Columbia: established an Economy II service available to residential ratepayers who are over 65 years of

age and qualify under federal statutory criteria for participation in the Low Income Home Energy Assistance Programs (LIHEAP) or the Complementary Energy Assistance Program in the District. The local program provides an average benefit of \$4.81 per month per subscriber, independent of the waiver of the subscriber line charge. The program was approved on March 18, 1986.

-Hawaii: enacted legislation on April 30, 1986. The rate is \$2.70 less than the regular individual residence rate for eligible participants 60 years of age or older with total

annual household income of \$10,000 or less. On October 15, 1986, the Hawaiian Telephone Company filed tariffs with the Public Utilities Commission setting verification and income eligibility standards, providing for installation of a single residence access line and associated equipment, a 50% reduction in service connection charges, elimination of nonrecurring charges and three-month payment leniency on reduced connection charges.

-Idaho: legislation passed in 1987 (H.B. No. 298) provides for Telecommunications Service Assistance which requires that recipients meet both age and income means tests. Applicants must be a head of household, sixty years of age or older, and participants in LIHEAP (130% of the federal poverty guidelines). The Idaho Public Utilities Commission will set a uniform monthly surcharge on each business and residential access line to reimburse telephone service providers. The program matches the subscriber line charge, and was approved on July 24, 1987.

-Maine: established a Lifeline Service Program for eligible households receiving AFDC, SSI, Medicaid, Food Stamps, or Energy Assistance. The program provides reduced service and equipment charges for installation, and a reduction in the monthly rate of basic exchange service. Maine estimates over 22,250 participating subscribers (40% of those qualified) and forecasts an annual installation program of 8,600. The program was approved on August 11, 1987.

-Maryland: established a Tel-Life service available to residential ratepayers who qualify under the state general public assistance program or under the federal Social Security Act. The Public Service Commission estimates that 39,750 people will qualify under the program and that the average benefit will be \$4.40 per month per subscriber, independent of the additional discount available on initial installation and connection services and of the waiver of the subscriber line charge. The program was approved May 22, 1986.

-Minnesota: In 1987, the state of Minnesota enacted a law to provide state assistance to low income subscribers. Approximately 30,000 households may be eligible for benefits. Eligibility is certified by the Department of Human Service. The MPUC ordered all 94 local telephone companies to use the same tariff. The MPUC set a surcharge initially at 10 cents per local subscriber per month to generate approximately \$2.4 million annually. The Minnesota program was approved on January 27, 1988.



-Missouri: enacted a Lifeline Service Plan on October 1, 1987. The plan offers reduced rates of \$5.30 for one basic residential access line. Eligible subscribers must qualify for energy assistance, be at least 65 years of age or disabled, and have an annual income of no more than \$7,500. The Missouri Division of Family Services will provide Southwestern Bell with a list of residents eligible to participate. Continued eligibility will be certified by Southwestern Bell through a list provided by the Division of Family Services.

-Montana: established a program based on criteria in Montana S.B. No. 257. Assistance will be verified by the Montana Department of Social and Rehabilitation Services for subscribers receiving Medicaid (26,000 households). The state assistance for subscribers will equal the residential subscriber line charge. Reimbursement of the telephone company for discounts will be authorized by the Public Service Commission through a monthly rate surcharge. The program was approved on August 11, 1987.

-Nevada: established the Nevada Experimental Lifeline Program which has two sets of criteria for eligibility, each of which meets the federal criteria: (a) the applicant must be at least 60 years of age and the applicant's household gross income must be under 150% of the federal poverty level; (b) the applicant must be a recipient of government-funded public assistance, e.g., SSI or SSA, regardless of age, with household income under 150% of the poverty level. The Experimental Lifeline Program will be funded solely by the shareholders of Nevada Bell to provide a \$2.00 per month discount and the once-a-year 50% discount connection charge. Eligible subscribers will receive discounts without limitation to the grade of service or customer calling patterns. The program was approved on April 18, 1987.

-New Mexico: approved the Mountain Bell Low Income Telephone Assistance Program (LITAP), effective March 1, 1987. Under LITAP, Mountain Bell's customers in New Mexico who qualify for Medicaid benefits under regulations administered by the New Mexico Human Services Department, will receive a \$2.00 per month reduction in monthly bills for basic exchange service. The service and equipment charge to change to this program will be waived. Eligible customers are entitled to a 25% discount on the access line service and equipment charge.

-New York: beginning June 1, 1985, New York Telephone offered a basic lifeline plan to qualified subscribers that waived 50% of the Subscriber Line Charge. In September 1987 the Public Service Commission ordered the telephone company to expand the program. The expanded lifeline plan provides discounts on monthly service in excess of the \$2.60 Subscriber Line Charge. One option, the Basic Lifeline plan, provides eligible subscribers a message rate access line for \$1 per month plus a 10% discount on up to \$5 of monthly usage. A second option, the Expanded Lifeline Service, provides the same \$1 per month access line plus \$10 of monthly usage for a prepaid \$9 per month. Residents who qualify for AFDC, Food Stamps, Home Relief, Medicaid, SSI and the home energy assistance program will be eligible to participate. Eligibility will be certified by the New York State Department of Social Services.

-North Carolina: established a matching program in the state which is available to ratepayers who qualify under the federal AFDC and SSI programs. The program provides for a credit on the local service bill of 100% of the subscriber line charge. The program is funded through state tax credits given to the participating LECs. The program was approved on May 26, 1986.

-Ohio: approved the low-income "telephone assistance plans" (TAPS) of eight Ohio local exchange companies. Each TAP plan offers a waiver of the security deposit and a fifty percent reduction in service connection charges upon initiation or reestablishment of service to participant in the Home Energy Assistance Program or the Ohio Energy Credits Program. The requirements in both programs have annual income limits per household. Additionally, eligibility for Ohio Energy Credits requires that the head of the household and/or the spouse be age 65 or older, or permanently or totally disabled, with gross annual household income of no more than \$9,000. The TAP offerings are provided to eligible customers through the deposit waiver and connection discount only once in a one-year period. Participants in the TAP offerings receive a waiver of the full SLC for a period of months commensurate with the amount of nonrecurring state assistance provided. United Telephone Company of Ohio's TAP program went into effect on January 6, 1986, while the other seven participating LECs began offering TAP in the spring of 1987. The FCC approved the provision of the SLC waivers in association with the TAP offerings on July 1, 1987.

-Oregon: established an Oregon Telephone Assistance Program (TAP) available to ratepayers 60 years of age or older and who

qualify for the federal food stamp program. The program provides for a credit on the local service bill of \$2.00, independent of the federal waiver of the subscriber line charge. The program was approved on May 22, 1986.

-Rhode Island: enacted legislation in October 1987 to provide a Lifeline Service Program. Eligible subscribers will receive a reduction of \$5.20 per month for a single telephone line, including one and two party unlimited local service, one-state-one-rate service, ocean state service, or enhanced Ocean State service. The program is available to residents who qualify for SSI, AFDC, GPA or Rhode Island Medical assistance. The Public Utilities Commission will monitor the program by requiring data from the telephone company within six months after the implementation. A monthly cross-check will be performed by the Department of Human Resources using computer tapes of participants provided by the telephone company.

- South Dakota: approved Northwestern Bell Telephone Company's Low Income Telephone Assistance Plan, effective April 1, 1988. The impetus for the PUC Order was "the Commission's dedication to the concept of Universal service and the concern that telephone installation charges, security deposits and gradually increasing local rates may represent a barrier preventing some individuals from obtaining telephone service." South Dakota Northwestern Bell customers who are 60 years of age or older and who receive benefits from either the Food Stamp Program or the Home Energy Assistance Program qualify. The South Dakota Department of Social Services will provide verification of continuing eligibility.

-Utah: established a lifeline program which addresses the price of local service and the customer's cost of obtaining telephone service. Discounts are provided to eligible customers of telephone companies with rates for local service (not including extended area service, mileage charges for areas outside of the base rate areas, and optional features) above the state established standard needs budget for telephone service. Those companies include Mountain Bell, Continental Telephone Company of the West, and Beehive Telephone Company. Other telephone companies may apply to the Public Service Commission of Utah for a lifeline rate if they desire to offer one.

Customers who qualify by income or participate in any one of eight income-eligible welfare programs supervised by Utah's Department of Social Services may register themselves for

lifeline services by filing a certification with their local exchange carrier, if the carrier offers lifeline telephone service.

The telephone companies, not less than annually, must verify their lists of lifeline rate participants with the eligibility lists maintained by Social Services of Utah. The program was approved on December 31, 1986.

-Vermont: enacted broad legislation on May 13, 1986 requiring the Public Service Board to adopt rates designed to implement a lifeline program, and provide a \$2.00 credit toward payment on monthly local telephone charges by eligible households. The legislation also required the department of Social Welfare to continue to administer the eligibility and verification provisions of the program. Two means of eligibility exist: the first, participation in either AFDC, Food Stamps, Fuel Assistance, Medicaid, or Supplemental Security Income programs; the second, participation in the Vermont Department of Taxes' state sales tax credit program for individuals over 65 years old having gross income of less than \$13,000 per annum.

-Virginia: asked all twenty Virginia local exchange telephone companies, on September 8, 1987, to submit "Virginia Universal Service Plan" tariffs to be effective no later than January 1, 1988. To be eligible, a subscriber must be a recipient of Medicaid assistance as administered by the Virginia Department of Medical Assistance Service. The Commission approved the Virginia plan on December 24, 1987.

-Washington: effective July 26, 1987, eligible subscribers are verified by the State Department of Social and Health Services through participation in the following programs: AFDC, CHORE services, food stamps, SSI, refugee assistance, or the Community Options Program Entry System. Each of these programs is means-tested by the department. A 50 percent discount on the service connection fee is mandated, and the remaining portion is payable through installment payments. The local exchange deposit is also waived. The legislation creates a lifeline excise tax on all other switched access lines to support lifeline service.

-West Virginia: enacted legislation effective July 1, 1986, requiring telephone companies to provide Telephone Assistance Service to low-income residential customers. Subscribers must be either disabled or at least 60 years of age and be receiving Social Security supplemental security income

benefits, aid to families with dependent children benefits, aid to dependent children-unemployed benefits, food stamps, or be a member of a household who total income qualifies under Social Security supplemental income programs.

Since the March monitoring report was issued, a new study, Telephone Assistance Programs for Low-Income Households: A Preliminary Assessment (January 1988), has been filed in the monitoring docket. The study was prepared by Leland Johnson and published by the Rand Corporation of Santa Monica, California. The general objective of the study is to "offer guidance in the design and evaluation of assistance programs," e.g. lifeline and Link Up America programs certified by the FCC. More specific objectives are to describe the established programs of eight states and the District of Columbia, identify relationships between program costs and program designs, evaluate whether then can be characterized more as promoting universal service or easing financial hardship, and draw inferences for future design and evaluation.

In providing the Federal-State Joint Board and the Commission reports on the Lifeline and Link Up America programs, the following states have submitted materials in the monitoring docket: Arkansas, California, District of Columbia, Florida, Maine, Rhode Island, Washington, and Wisconsin. These are summarized below.

#### Arkansas Public Service Commission

Arkansas is a pilot state in the Link Up America program. All local exchange companies participate in the state certified program. Additionally, Southwestern Bell Telephone Company has been approved to offer statewide lifeline assistance.

#### California Public Utilities Commission

The Moore Universal Telephone Service Act in 1987 required the PUC to annually designate a class of universal service necessary to meet minimum residential communications needs and that the program be supported through a surcharge on telecommunication services. The PUC designated the initial surcharge rate at 4% applicable to intraLATA toll services beginning January 1, 1988, and intrastate interLATA services July 29, 1987. For the months ending December 31, 1987, the program had a deficit of \$41.9 million, but it is projected to have a surplus of \$23.8 million for the six months ending June 30, 1988. A new surcharge rate will be set by the middle of June 1988. Participation is estimated at 1.25 million subscribers in June 1988.

### District of Columbia Public Service Commission

The lifeline service (Economy II) provides a reduced monthly rate of \$3.93 and includes 60 free calls per month. The equivalent residential service is \$7.84. Initially, a new applicant received a 50% reduction in the service connection charge. With the implementation of Link Up America, a new Economy II customer receives a 75% discount on the service connection charges. The service is targeted to residents who are 65 years of age or older and who qualify for the D.C. Energy Assistance Program.

### Florida Public Service Commission

The State of Florida Public Service Commission has filed staff memoranda in the monitoring docket which address its ongoing review of both the lifeline and Link Up programs. This assessment includes reports on twenty-five participating state programs, and provides costs, funding, eligibility, and legality data for the State of Florida to consider. Florida is not participating in the federal assistance programs.

### Maine Public Utilities Commission

Maine reported a total of 29,757 residential customers receiving lifeline service through April 1988. The penetration ratio for all lifeline customers is 43.3% of statewide low income residences. The installation credit is offered to 2,525 customers. All telephone companies in the state have offered this program without the 50% federal assistance. The Maine PUC petitioned the FCC to review eligibility criteria, and requested changes eliminating the three-month and two-year exclusions.

### Rhode Island Public Utilities Commission

Rhode Island continues maximum participation in the matching subscriber line charge waiver assistance to low income households. New England Telephone Company agreed to increase the special reduction contained in its lifeline service for eligible residential exchange service customers, matching any increase in the interstate subscriber line charge approved by the Joint Board and the FCC, up to a total charge of \$3.50 per line. New England Telephone also agreed to absorb the additional costs of this revision, up to \$200,000 annually.

### Washington State Utilities and Transportation Commission

The Washington State UTC program was initiated in August 1987. A six month report indicated 31,611 lifeline program participants, and 13,369 Link Up America subscribers receiving connection assistance. The statewide program provides assistance that brings the cost of local service down to \$10 per month, a 50% discount on installation fees, and a waiver of the deposit on local service.

Wisconsin Public Service Commission

The Wisconsin PSC filed tariff materials which indicate special rates for low income customers. The state commission authorized the waiver of non-recurring charges associated with moving or establishing new service. These benefits are available to customers receiving income assistance in Wisconsin. Wisconsin is not participating in the Link Up program. The Wisconsin PSC did not authorize monthly rate reductions proposed by state telephone companies, but encouraged individual companies to apply for participation in the federal program.

ATTACHMENT I

LIFELINE ASSISTANCE PLANS  
NECA BUDGET PROJECTIONS FOR STATE PLANS

The monitoring of Lifeline Assistance plans requires NECA to submit reports at the state and study area level of detail. Because the Link Up America program is new, having been introduced in July 1987, and the end user charge waiver historically has been netted against SLC revenues in reporting for pooling purposes, no actual amounts flowed to each LEC are available. In lieu of actuals for the prior period, NECA has submitted the projection of Lifeline Assistance amounts that were included in the Annual Tariff filing made on October 2, 1987, for calendar year 1988.

Beginning in 1988, NECA will collect actual data from the exchange carriers on a semi-annual basis in June and December of each year and will report these data in this docket as they become available.

TABLE 2.2

LIFELINE ASSISTANCE BY STATE  
(PROJECTED IN 1988 DOLLARS)

STATE	END USER CHARGES WAIVED	LCA CONNECTION CHARGES	LCA-DEFERRED INTEREST	TOTAL ASSISTANCE
AK	0	0	0	0
AL	0	60,071	0	60,071
AR	160,586	60,651	0	221,237
AZ	312,000	25,343	0	337,343
CA	19,688,452	0	0	19,688,452
CO	686,400	18,020	0	704,420
CT	0	0	0	0
DC	93,600	3,426	0	97,026
DE	81,214	1,100	0	82,314
FL	0	285,827	1,676	287,503
GA	0	74,407	0	74,407
HI	163,862	0	0	163,862
IA	0	22,950	0	22,950
ID	172,550	4,453	0	177,003
IL	0	0	0	0
IN	0	0	0	0
KS	0	2,296	0	2,296
KY	0	60,681	0	60,681
LA	0	161,257	0	161,257



LIFELINE ASSISTANCE BY STATE

MA	0	0	0	0
MD	99,840	48,000	0	147,840
ME	429,624	644	0	430,268
MI	27,540	3,400	0	30,940
MN	1,123,200	47,040	0	1,170,240
MO	830,481	21,140	0	851,621
MS	0	89,622	0	89,622
MT	374,400	11,393	0	385,793
NC	732,420	108,325	0	840,745
ND	0	2,310	0	2,310
NE	475,800	20,400	0	496,200
NH	0	0	0	0
NJ	500,697	215,670	0	716,367
NM	642,720	29,125	0	671,845
NV	35,053	120	3	35,176
NY	2,297,598	577,040	40,017	2,914,655
OH	1,183,018	18,640	0	1,201,658
OK	0	11,760	0	11,760
OR	468,425	19,880	0	488,305
PA	0	20,000	0	20,000
PR	0	0	0	0
RI	453,118	7,100	138	460,356
SC	0	72,705	0	72,705
SD	135,377	13,125	0	148,502
TN	0	129,929	0	129,929
TX	0	39,630	0	39,630
UT	701,376	21,994	0	723,370
VA	78,000	148,279	0	226,279
VI	0	0	0	0
VT	485,160	00	0	485,160
WA	727,212	139,830	26	867,068
WI	0	1,960	0	1,960
WV	190,289	8,108	0	198,397
WY	70,200	8,293	0	78,493
X <u>1/</u>	936,963	0	0	936,963
	=====	=====	=====	=====
	34,357,173	2,615,944	41,860	37,014,977
	=====	=====	=====	=====

1/ X represents the national total for unsampled study areas.

ATTACHMENT II  
ANNUAL LIFELINE AND LINK UP REPORT

STATE/ TELEPHONE CO. (implementation date)	PARTICIPATION / SUBSCRIBERS		COST DATA	
Maryland Public Service Commission (7/1/86 to 10/31/87)	Participating households New subscribers Number of regrades	4,382 1,624 2,758	Implementation (C&P) Administrative (C&P) State verification costs Connection charges Monthly charges	\$ 97,000 \$ 196,340 \$ 15,000 \$ 16,722 \$ 165,761
North Carolina Utilities Commission (12/31/87)	SLOW New subscribers responding to SLOW	16,221 554	Implementation Administrative State tax credits	\$ 49,032 \$ 69,769 \$ 210,545
Vermont Public Service Board (7/01/86 to 7/01/87)	Participation estimate (Eligible households)	15,912 40,000	Administrative Benefits	\$ 23,400 \$ 74,895
Washington State Utilities Commission (8/1/87)	SLOW LUA	31,611 13,369	Start up costs Benefits	\$ 240,000 \$1,075,800
West Virginia Public Service Commission (SLOW 1986 data)	SLOW LUA	6,345 3,563	Customer discount	\$ 75,951
Ameritech: Ohio Bell (SLOW 4/01/87)	SLOW 11/87	581	SLOW	\$ 36,748
Bell Atlantic: C&P Telephone District of Columbia	SLOW 3/88	3,220	SLOW Customer survey	\$ 25,750 \$ 8,000
NYNEX: New York Telephone Co. (50% SLOW 6/85) (100% SLOW 9/87)	SLOW 12/01/87	92,193	(Tracking is being developed)	

ATTACHMENT II  
(Continued)

STATE/ TELEPHONE CO. (implementation date)	PARTICIPATION/ SUBSCRIBERS		COST DATA	
Southwestern Bell: Arkansas (SLOW 9/10/87)	SLOW (12/31/86) (50% new subscribers on network)	4,475	SLOW	\$ 12,464
US West: Arizona (10/86)	Participation 6/30/87 New customers (Estimated eligible	1,195 185 3,000)	SLOW	\$145,404
Colorado (9/01/86)	Participation 6/30/87 New connects (Estimated eligible	18,338 276 35,000)	SLOW (includes 25% discount on basic and mileage)	\$398,038
New Mexico (3/01/87)	Participation 6/30/87 New users (Estimated eligible	10,500 255 40,000)	SLOW (includes 25% discount on service)	\$ 49,215
Oregon (6/01/87 to 7/01/87)	Participation 6/30/87 New connects (Estimated eligible	6,479 97 20,000)	SLOW	\$155,446
Utah (1/01/87)	Participation 6/30/87 New connects (Estimated eligible	14,547 1,915 60,000)	SLOW	\$338,618

NOTE: The responses are not uniform in the definition of benefits provided. In some states, lifeline costs include rate discounts beyond the subscriber line charges waiver. The terminologies are those of the respondents and are also not uniform.

LUA = Link Up America: connection charges  
SLCW = Subscriber line charge waiver

ATTACHMENT III

FCC 496

FEDERAL COMMUNICATIONS COMMISSION  
WASHINGTON, D.C. 20554

APPROVED BY OMB  
3060-0391  
EXPRES 09/30/91

**STATE TELEPHONE ASSISTANCE REPORT**

READ ALL INSTRUCTIONS ON BACK BEFORE COMPLETING

1. NAME AND ADDRESS OF REPORTING ENTITY	2. FOR STATE OF:
	3. YEAR REPORT ENDING: DECEMBER 31, 19_____

4. REPORT REFLECTS THE FOLLOWING TELEPHONE COMPANY(IES)

5(a) PARTICULARS PERTAINING TO PROGRAM PARTICIPANTS AND COST	AT END OF YEAR	
	(b) Lifeline Program	(c) Link Up Program
1. Number of Households/Customers enrolled in program		
2. Number of enrolled households that are new customers (incl. in 1. above)		
3. Number of Households eligible		
4. Annual Administrative Costs - <b>Recurring</b> (See Instruction C)		
5. Administrative Costs - <b>Start-up</b> (See Instruction C)		

6. PARTICULARS PERTAINING TO SERVICE AREA AND CHARGES	AT END OF YEAR
1. Number of households in service area	
2. Number of households with telephone service	
3. Subscriber line charges waived (Per Subscriber Per Month (Average) \$ _____)	
4. Additional Reduction in Local Charges or Benefits Provided (Per Subscriber Per Month \$ _____)	

7. DESCRIPTION OF PROGRAM (See Instruction D)		
a. Name of Program	b. Type of Program (Mark "X" One)	c. Date of Most Recent FCC Certification
	1. <input type="checkbox"/> Lifeline Program	
	2. <input type="checkbox"/> Link Up Program	d. Effective Date of Program

e. Eligibility Requirements. Describe eligibility requirements. Response should include income criteria and/or participation in other assistance programs such as Medicaid, Food Stamps, fuel assistance, etc. Also, include non-income criteria such as age and disability. Describe how the number of eligible households is developed.

f. Verification of Eligibility Requirements. Describe how the eligibility requirements, defined above, are verified.

g. Determination of Costs. Describe how the costs of the plan are determined.

h. Publicity Methodologies. Describe methodologies used to inform the public about the availability of the program.

8. CONTACT REPRESENTATIVE. Give name, address and telephone number of person preparing this report.		
Name	Mailing Street Address or P.O. Box, City, State and ZIP Code	Area Code - Telephone No.

9. CERTIFICATION: I certify that to the best of my knowledge and belief that this is a true and correct report.			
Date	Typed Name of Person Signing	Title of Person Signing	Signature

PERSONS MAKING WILLFUL FALSE STATEMENTS IN THIS REPORT CAN BE PUNISHED BY FINE OR IMPRISONMENT, U.S. CODE, TITLE 18, SECTION 1001.

## INSTRUCTIONS

A. This report is prescribed under authority of Sections 4(i) and 4(j) of the Communications Act of 1934, as amended. FCC 496 shall be filed in duplicate with the Federal Communications Commission, Washington, D.C. 20554, not later than May 1, of the year following that for which the report is made.

B. The following entities that participate in Federal telephone assistance under Parts 69 and/or 36 of the FCC Rules are required to file this report:

1. All states that have obtained FCC certification to provide such assistance programs;
2. All telephone companies that have obtained FCC certification; and
3. All other telephone companies that participate in waivers or reductions of the end user subscriber line charge.

C. The cost of the program should include all costs specifically identifiable as related solely to the lifeline and Link Up America programs; no allocation of common or joint costs should be included. For states filing this report, the figures reported should include both state and local exchange carrier costs.

D. Item 7. Description of Program. Complete item 7 only once for each different program even if this report is being submitted by a state commission for more than one company.

If the state or company reporting has both a lifeline program and a Link Up program, please provide a separate descriptive sheet for each program.

If a description is already on file at the FCC, please indicate "No change since my submission of (include date)."

E. Any data that requires clarification should be footnoted and fully explained in the Remarks section below. If the space provided is insufficient for the required data or it is otherwise necessary or desirable to insert additional statements or schedules, the insert pages should include the name of the respondent and the time period covered, in a style conforming nearly as practicable to that appearing on the regular page.

F. All instructions shall be followed. All questions and statements must be completed. If proper answer is "none" or "not applicable," insert that answer. If exact data are not available, please estimate and label your response "estimate".

G. Notice. The FCC 496 Report is needed to provide the Commission with the data necessary to fulfill its regulatory responsibilities with respect to interstate telephone service under Title II of the Communications Act of 1934, as amended. Information from FCC 496 Report is used in analyzing requests for continuing certification of state telephone assistance programs and selected data are tabulated and released by the Commission. Your response is mandatory. This Notice is required by the Privacy Act of 1974, P.L. 93-579, December 31, 1974, 5 U.S.C. 552(a)(3) and the Paperwork Reduction Act of 1980, P.L. 96-511, December 11, 1980, 44 U.S.C. 3507.

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REMARKS

ATTACHMENT IV

PERCENT OF RESIDENCE C.P.T. WHICH ARE LIFELINE

QUARTER	AR	AZ	CA	CO	DC	HI	MD
87/1	0.78%	0.13%	10.05%	1.57%	0.90%	1.37%	0.17%
87/2	0.72%	0.15%	10.75%	1.54%	0.95%	1.46%	0.17%
	NC	NM	NY	OR	UT	VT	WV
87/1	0.02%	0.00%	0.89%	0.92%	2.85%	5.37%	0.98%
87/2	0.02%	1.53%	1.10%	1.00%	3.09%	6.62%	0.98%
	TBOC	TICO	TOTAL				
87/1	1.39%	1.58%	1.42%				
87/2	1.51%	1.72%	1.55%				

- NOTES: A. C.P.T. are customer premises terminations, a measure of the number of telephone customers. These data show the percentage of total residence customers enrolled in the Lifeline program.
- B. TBOC are total Bell Operating Company figures; TICO are total non-Bell Operating Company figures.
- C. Data are provided only for those states which had Lifeline programs in effect by the second quarter of 1987.

Source: Schedule DMD-5, 1988 Tariff Review Plan, Tier I Rollup

### 3. Costs and High Cost Assistance

On a nationwide average basis, approximately 28 percent of local exchange carrier (LEC) local loop costs are allocated to the interstate (federal) jurisdiction, and 72 percent are allocated to the state jurisdiction. The average cost per loop, however, varies significantly among LECs. The Commission's high cost assistance program requires LECs with very high per loop costs to allocate more of their loop costs to the interstate jurisdiction, thus recovering these costs from interexchange carriers and leaving less costs to be recovered through state rates. In this manner, the high cost assistance program operates to hold down local rates and thereby furthers one of the most important goals of federal and state regulation -- the preservation of universal telephone service. Acting on the recommendation of the Federal-State Joint Board in CC Docket No. 80-286, the Commission adopted rule changes that, effective January 1988, retargeted federal assistance provided to high cost LECs. This section of the report outlines the high cost assistance program and the changes adopted by the Commission, and discusses the high cost data included in the report.

The Commission regulates the recovery by LECs of that portion of their total costs associated with the provision of interstate services. The states regulate the recovery of costs associated with intrastate services (local service and state long distance services). The Commission's high cost assistance program relates to the allocation between the state and interstate jurisdictions of non-traffic sensitive (NTS) "local loop costs" -- a term that refers to the costs of outside telephone wires, poles, and other facilities that link each telephone customer's premises to the public switched telephone network. These costs are allocated between the state and interstate jurisdictions because all local loops can be used for making and receiving state and interstate telephone calls.

Pursuant to the changes recommended by the Joint Board and adopted by the Commission, high cost assistance has been retargeted to increase benefits to small and medium sized LECs beginning in January 1988. This retargeting takes the form of an additional interstate cost allocation for such LECs. The old and new high cost formulas are compared in Table 3.1. 1

The Commission's high cost assistance program is being implemented during a period in which the basic interstate allocation of loop costs is being shifted from a level based on the Subscriber Plant Factor (SPF) to a

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1 Of course, the percentages shown in the table are in addition to the basic allocator of NTS costs allocated to the interstate jurisdiction under our rules.

gross allocation factor of 25%. Both of these changes are being phased in over the same eight-year period. Data permitting an analysis of the increasing cost support and the changing SPF based interstate allocation are included in this report.

The Commission's high cost assistance program is administered by the National Exchange Carrier Association (NECA). As part of the administration of the program, NECA collects certain cost data from LECs that provide service to approximately 98% of the nation's subscribers. Each year NECA collects NTS cost and loop data from the previous year, and uses it to distribute high cost assistance in the following year. State totals from NECA's 1987 report, covering high cost data for 1986, and using the 12.75% rate of return which was in effect in 1986 (rather than the 12% rate currently in effect) are presented in Table 3.2, labeled "support determination at 200,000 loops", which shows the universal service fund (USF) calculation for 1985 data based on the new high cost formula which took effect in 1988. 2 Table 3.3, labeled "support determination at 50,000 loops", shows the USF calculation based on the old high cost formula. 3 Table 3.4 shows the percentage change from 1985 to 1986 for each of the values in the preceding two tables. This table shows that for all telephone companies combined, the unseparated NTS revenue requirement increased by 7%, the number of loops increased by 2%, and the unseparated revenue requirement per loop rose by 5%. The retargeting of the universal service fund resulted in a 1% decline in the full expense adjustment, and an increase in the actual transitional amount of less than the 50% that would have occurred if there had been no retargeting and no cost changes. The number of study areas declined by 1% as a result of mergers and acquisitions.

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- 2 In the September 1987 monitoring report, we included a restatement of the high cost data for 1985, which was recast at a rate of return of 12% instead of the 12.75% used in NECA's filing, and we used the high cost formula then in place (not the new formula that became effective in January 1988).
  - 3 The introduction of the USF and the movement of the basic interstate allocation from SPF to 25% is being accomplished over an eight-year transition period which began in 1986. Therefore, the "expense adjustment applicable to the specified year" is 3/8 of the full amount in Table 3.2, and is 2/8 of the full amount in Table 3.3.



The next two tables provide information for individual study areas. Table 3.5 shows the data for all study areas from NECA's report of high cost data for 1986. This table includes average schedule companies as well as those that settle on a cost basis. For average schedule companies, the costs shown are based on averages for other companies and don't necessarily reflect the costs of the particular company listed. Since these companies do not settle on a cost basis, they do not have to report their costs in detail and they do not receive high cost assistance from the universal service fund. However, the estimates of their average costs shown in Table 3.5 are used to compute the nationwide average cost per loop. Table 3.6 shows the values of the basic SPF allocator by study area for the past three years for all companies that settle on a cost basis. The frozen SPF value was in effect from 1981 through 1985. Since then, the allocator changes each year by one-eighth of the difference between the frozen value and .25, except that study areas with a frozen SPF of over .65 are limited to a maximum change of .05 per year. 4

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4 A study area with a frozen SPF over .65 that receives high cost assistance can have its transitional SPF change by more than .05, as long as the total interstate allocation from the transitional SPF plus the USF does not change by more than .05 in the allocation of NTS capital, depreciation, and maintenance costs. This, however, is not reflected in the transitional SPF values in Table 3.6, which ignore the USF impact on the transitional SPF values of study areas with a frozen SPF over .65.

TABLE 3.1

## HIGH COST FORMULAS

Cost Range As % of National Average	% Expense Adjustment Within Range
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Old Formula, Study Areas with Over 50,000 Loops

0% - 115%	0%
115% - 150%	25%
150% and above	75%

Old Formula, Study Areas with 50,000 Loops or Less

0% - 115%	0%
115% - 150%	50%
150% and above	75%

New Formula, Study Areas with Over 200,000 Loops

0% - 115%	0%
115% - 160%	10%
160% - 200%	30%
200% - 250%	60%
250% and above	75%

New Formula, Study Areas with 200,000 Loops or Less

0% - 115%	0%
115% - 150%	65%
150% and above	75%

NATIONAL EXCHANGE CARRIERS ASSOCIATION  
UNIVERSAL SERVICE FUND  
EXPENSE ADJUSTMENT  
STATE SUMMARY  
SUPPORT DETERMINATION AT 200,000 LOOPS

STATE	UNSEPARATED REVENUE REQUIREMENT	LOOPS	UNSEPARATED REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FULL EXPENSE ADJUSTMENT	UNIVERSAL SERVICE FUND EXPENSE ADJUSTMENT APPLICABLE TO 1988	PERCENT OF TOTAL
ALABAMA	417,632,162	1,577,841	264.69	13,547,468	5,080,301	2.83
ALASKA	94,930,486	246,353	385.34	29,621,860	11,108,198	6.19
ARIZONA	442,938,160	1,609,130	275.27	13,459,169	5,047,188	2.81
ARKANSAS	292,247,796	921,662	317.09	15,906,792	5,965,047	3.32
CALIFORNIA	3,366,496,750	14,418,836	233.48	39,633,172	14,862,440	8.28
COLORADO	359,532,276	1,671,532	215.09	2,879,278	1,079,729	0.60
CONNECTICUT	343,494,608	1,686,842	203.63	0	0	0.00
DELAWARE	65,659,079	348,315	188.50	0	0	0.00
DISTRICT OF COLUMBIA	86,402,458	767,536	112.57	0	0	0.00
FLORIDA	1,899,816,661	6,166,648	308.08	32,384,721	12,144,270	6.77
GEORGIA	756,739,454	2,739,265	276.26	13,687,670	5,132,876	2.86
HAWAII	83,488,176	483,933	172.52	0	0	0.00
IDAHO	126,688,465	419,610	301.92	11,735,527	4,400,823	2.45
ILLINOIS	957,258,178	5,774,341	165.78	1,488,667	558,250	0.31
INDIANA	480,417,959	2,367,727	202.90	1,448,499	543,187	0.30
IOWA	262,807,104	1,280,788	205.19	2,339,627	877,360	0.49
KANSAS	289,620,562	1,182,565	244.91	11,924,858	4,471,822	2.49
KENTUCKY	380,826,956	1,391,084	273.76	6,705,695	2,514,636	1.40
LOUISIANA	540,869,118	1,792,119	301.80	13,803,556	5,176,334	2.89
MAINE	152,757,546	559,667	272.94	3,256,315	1,221,118	0.68
MARYLAND	436,526,593	2,419,800	180.40	0	0	0.00
MASSACHUSETTS	509,544,887	3,262,486	156.18	0	0	0.00
MICHIGAN	891,200,104	4,404,137	202.36	2,619,551	982,332	0.55
MINNESOTA	431,307,856	2,090,627	206.31	4,615,687	1,730,883	0.96
MISSISSIPPI	299,711,688	881,325	340.07	8,836,177	3,313,566	1.85
MISSOURI	562,197,793	2,358,163	238.40	25,743,491	9,653,809	5.38
MONTANA	120,357,719	359,651	334.65	8,678,763	3,254,536	1.81
NEBRASKA	155,876,911	781,046	199.57	3,889,737	1,458,651	0.81
NEVADA	121,535,669	544,558	223.18	7,918,291	2,969,359	1.66
NEW HAMPSHIRE	141,773,537	542,779	261.20	470,762	176,536	0.10
NEW JERSEY	806,259,897	4,369,685	184.51	212,255	79,596	0.04
NEW MEXICO	175,986,175	601,538	292.56	18,601,800	6,975,675	3.89
NEW YORK	2,127,827,382	9,732,897	218.62	8,577,061	3,216,398	1.79
NORTH CAROLINA	720,988,658	2,825,224	255.20	11,024,349	4,134,131	2.30
NORTH DAKOTA	89,068,532	332,497	267.88	2,822,503	1,058,439	0.59
OHIO	920,450,939	4,835,553	190.35	789,106	295,915	0.16
OKLAHOMA	439,868,358	1,482,439	296.72	21,399,545	8,024,829	4.47
OREGON	310,103,682	1,289,115	240.56	12,097,306	4,536,490	2.53
PENNSYLVANIA	1,082,069,044	5,811,015	186.21	1,488,319	558,120	0.31
PUERTO RICO	170,816,921	703,621	242.77	0	0	0.00
RHODE ISLAND	94,845,437	482,269	196.67	0	0	0.00
SOUTH CAROLINA	422,054,061	1,358,935	310.58	9,109,050	3,415,894	1.90
SOUTH DAKOTA	82,645,152	306,166	269.94	2,833,093	1,062,410	0.59

NATIONAL EXCHANGE CARRIERS ASSOCIATION  
 UNIVERSAL SERVICE FUND  
 EXPENSE ADJUSTMENT  
 STATE SUMMARY  
 SUPPORT DETERMINATION AT 200,000 LOOPS

STATE	UNSEPARATED REVENUE REQUIREMENT	LOOPS	UNSEPARATED REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FULL EXPENSE ADJUSTMENT	UNIVERSAL SERVICE FUND EXPENSE ADJUSTMENT APPLICABLE TO 1988	PERCENT OF TOTAL
TENNESSEE	477,758,685	2,072,194	230.56	1,807,756	677,909	0.38
TEXAS	2,158,278,555	7,842,869	275.19	61,953,030	23,232,386	12.95
UTAH	140,959,580	669,509	210.54	2,633,726	987,647	0.55
VERMONT	83,903,757	271,109	309.48	3,254,435	1,220,413	0.68
VIRGIN ISLANDS	17,092,504	39,232	435.68	4,665,701	1,749,638	0.98
VIRGINIA	682,438,913	2,795,122	244.15	4,744,815	1,779,306	0.99
WASHINGTON	488,016,701	2,273,171	214.69	12,885,353	4,832,007	2.69
WEST VIRGINIA	254,148,137	733,341	346.56	10,962,489	4,110,933	2.29
WISCONSIN	484,658,587	2,189,622	221.34	3,582,276	1,343,354	0.75
WYOMING	92,366,847	221,632	416.76	6,363,319	2,386,245	1.33
INDUSTRY TOTAL	27,393,263,217	118,289,121	231.58	478,402,620	179,400,983	100.00

TOTAL NUMBER OF STUDY AREA CODES: 1485

NATIONAL EXCHANGE CARRIERS ASSOCIATION  
 UNIVERSAL SERVICE FUND  
 EXPENSE ADJUSTMENT  
 STATE SUMMARY  
 SUPPORT DETERMINATION AT 50,000 LOOPS

STATE	UNSEPARATED REVENUE REQUIREMENT	LOOPS	UNSEPARATED REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FULL EXPENSE ADJUSTMENT	UNIVERSAL SERVICE FUND EXPENSE ADJUSTMENT APPLICABLE TO 1987	PERCENT OF TOTAL
ALABAMA	403,177,045	1,541,330	261.58	5,596,529	1,399,132	1.16
ALASKA	83,069,417	243,355	341.35	23,455,100	5,863,775	4.86
ARIZONA	389,916,290	1,541,449	252.95	11,871,979	2,967,995	2.46
ARKANSAS	278,714,897	882,859	315.70	18,422,811	4,605,703	3.81
CALIFORNIA	3,236,141,075	14,281,301	226.60	35,630,104	8,907,526	7.38
COLORADO	339,615,979	1,686,315	201.40	2,447,228	611,807	0.51
CONNECTICUT	313,933,137	1,653,182	189.90	0	0	0.00
DELAWARE	61,480,806	333,039	184.61	0	0	0.00
DISTRICT OF COLUMBIA	76,744,291	779,688	98.43	0	0	0.00
FLORIDA	1,654,810,461	5,753,924	287.60	54,102,932	13,525,733	11.20
GEORGIA	667,208,406	2,619,232	254.73	7,616,201	1,904,050	1.58
HAWAII	81,459,526	467,493	174.25	0	0	0.00
IDAHO	119,093,033	423,829	280.99	6,530,959	1,632,740	1.35
ILLINOIS	938,965,996	5,756,619	163.11	220,925	55,231	0.05
INDIANA	454,931,957	2,357,250	192.99	748,689	187,172	0.15
IOWA	269,120,232	1,291,065	208.45	810,226	202,557	0.17
KANSAS	279,704,669	1,156,405	241.87	9,558,086	2,389,522	1.98
KENTUCKY	348,878,708	1,365,202	255.55	6,271,842	1,567,961	1.30
LOUISIANA	562,854,338	1,831,402	307.34	27,805,111	6,951,278	5.76
MAINE	141,249,725	531,172	265.92	3,320,667	830,167	0.69
MARYLAND	417,249,418	2,347,608	177.73	0	0	0.00
MASSACHUSETTS	464,654,383	3,157,269	147.17	0	0	0.00
MICHIGAN	865,975,542	4,373,901	197.99	2,112,590	528,148	0.44
MINNESOTA	413,773,025	2,069,414	199.95	2,802,156	700,539	0.58
MISSISSIPPI	296,145,029	868,335	341.05	26,220,266	6,555,067	5.43
MISSOURI	510,733,322	2,293,510	222.69	16,717,220	4,179,305	3.46
MONTANA	114,145,421	367,519	310.58	9,723,417	2,430,854	2.01
NEBRASKA	150,646,152	782,309	192.57	2,692,532	673,133	0.56
NEVADA	113,657,207	493,590	230.27	5,855,551	1,463,888	1.21
NEW HAMPSHIRE	128,324,265	515,959	248.71	189,961	47,490	0.04
NEW JERSEY	768,009,488	4,345,774	176.73	501,125	125,281	0.10
NEW MEXICO	165,865,365	591,043	280.63	17,504,617	4,376,154	3.62
NEW YORK	1,998,318,067	9,558,230	209.07	4,556,072	1,139,018	0.94
NORTH CAROLINA	653,690,228	2,707,458	241.44	11,000,264	2,750,066	2.28
NORTH DAKOTA	90,406,395	333,357	271.20	3,591,273	897,818	0.74
OHIO	842,457,520	4,753,438	177.23	1,143,891	285,973	0.24
OKLAHOMA	410,055,334	1,480,944	276.89	15,754,974	3,938,744	3.26
OREGON	288,030,314	1,298,062	221.89	8,742,011	2,185,503	1.81
PENNSYLVANIA	960,228,404	5,734,493	167.45	867,160	216,790	0.18
PUERTO RICO	150,154,077	647,100	232.04	0	0	0.00
RHODE ISLAND	93,407,084	465,782	200.54	0	0	0.00
SOUTH CAROLINA	374,739,261	1,309,356	286.20	13,999,069	3,499,767	2.90
SOUTH DAKOTA	83,606,377	303,508	275.47	3,514,191	878,548	0.73

NATIONAL EXCHANGE CARRIERS ASSOCIATION  
 UNIVERSAL SERVICE FUND  
 EXPENSE ADJUSTMENT  
 STATE SUMMARY  
 SUPPORT DETERMINATION AT 50,000 LOOPS

STATE	UNSEPARATED REVENUE REQUIREMENT	LOOPS	UNSEPARATED REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FULL EXPENSE ADJUSTMENT	UNIVERSAL SERVICE FUND EXPENSE ADJUSTMENT APPLICABLE TO 1987	PERCENT OF TOTAL
TENNESSEE	452,153,193	2,033,849	222.31	2,172,147	543,037	0.45
TEXAS	1,965,793,885	7,666,965	256.40	52,185,556	13,046,389	10.80
UTAH	123,230,772	658,919	187.02	2,538,179	634,545	0.53
VERMONT	74,662,675	262,174	284.78	3,134,837	783,709	0.65
VIRGIN ISLANDS	12,990,607	35,289	368.12	2,359,070	589,768	0.49
VIRGINIA	632,007,598	2,690,060	234.94	3,296,054	824,014	0.68
WASHINGTON	437,425,029	2,237,544	195.49	10,084,043	2,521,011	2.09
WEST VIRGINIA	243,423,139	715,666	340.14	22,167,530	5,541,883	4.59
WISCONSIN	455,026,997	2,157,197	210.93	5,613,789	1,403,447	1.16
WYOMING	94,046,539	234,080	401.77	17,656,150	4,414,038	3.65
INDUSTRY TOTAL	25,546,102,097	115,985,813	220.25	483,105,084	120,776,271	100.00

TOTAL NUMBER OF STUDY AREA CODES: 1502

TABLE 3.4

% CHANGES

PAGE 1

NATIONAL EXCHANGE CARRIERS ASSOCIATION  
UNIVERSAL SERVICE FUND  
EXPENSE ADJUSTMENT  
STATE SUMMARY  
PERCENTAGE CHANGES FROM 1985 TO 1986

STATE	UNSEPARATED REVENUE REQUIREMENT	LOOPS	UNSEPARATED REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FULL EXPENSE ADJUSTMENT	UNIVERSAL SERVICE FUND EXPENSE ADJUSTMENT APPLICABLE TO SPECIFIED YEAR	PERCENT OF TOTAL
ALABAMA	3.59%	2.37%	1.19%	142.07%	263.10%	144.45%
ALASKA	14.28%	1.23%	12.89%	26.29%	89.44%	27.53%
ARIZONA	13.60%	4.39%	8.82%	13.37%	70.05%	14.48%
ARKANSAS	4.86%	4.40%	0.44%	-13.66%	29.51%	-12.81%
CALIFORNIA	4.03%	0.96%	3.04%	11.24%	66.85%	12.33%
COLORADO	5.86%	-0.88%	6.80%	17.65%	76.48%	18.81%
CONNECTICUT	9.42%	2.04%	7.23%	0.00%	0.00%	0.00%
DELAWARE	6.80%	4.59%	2.11%	0.00%	0.00%	0.00%
DISTRICT OF COLUMBIA	12.58%	-1.56%	14.37%	0.00%	0.00%	0.00%
FLORIDA	14.81%	7.17%	7.12%	-40.14%	-10.21%	-39.55%
GEORGIA	13.42%	4.58%	8.45%	79.72%	169.58%	81.48%
HAWAII	2.49%	3.52%	-0.99%	0.00%	0.00%	0.00%
IDAHO	6.38%	-1.00%	7.45%	79.69%	169.54%	81.46%
ILLINOIS	1.95%	0.31%	1.64%	573.83%	910.75%	580.46%
INDIANA	5.60%	0.44%	5.13%	93.47%	190.21%	95.37%
IOWA	-2.35%	-0.80%	-1.56%	188.76%	333.14%	191.60%
KANSAS	3.55%	2.26%	1.25%	24.76%	87.14%	25.99%
KENTUCKY	9.16%	1.90%	7.13%	6.92%	60.38%	7.97%
LOUISIANA	-3.91%	-2.14%	-1.80%	-50.36%	-25.53%	-49.87%
MAINE	8.15%	5.36%	2.64%	-1.94%	47.09%	-0.97%
MARYLAND	4.62%	3.08%	1.50%	0.00%	0.00%	0.00%
MASSACHUSETTS	9.66%	3.33%	6.12%	0.00%	0.00%	0.00%
MICHIGAN	2.91%	0.69%	2.21%	24.00%	86.00%	25.22%
MINNESOTA	4.24%	1.03%	3.18%	64.72%	147.08%	66.34%
MISSISSIPPI	1.20%	1.50%	-0.29%	-66.30%	-49.45%	-65.97%
MISSOURI	10.08%	2.82%	7.06%	53.99%	130.99%	55.51%
MONTANA	5.44%	-2.14%	7.75%	-10.74%	33.88%	-9.87%
NEBRASKA	3.47%	-0.16%	3.64%	44.46%	116.70%	45.88%
NEVADA	6.93%	10.33%	-3.08%	35.23%	102.84%	36.56%
NEW HAMPSHIRE	10.48%	5.20%	5.02%	147.82%	271.73%	150.26%
NEW JERSEY	4.98%	0.55%	4.41%	-57.64%	-36.47%	-57.23%
NEW MEXICO	6.10%	1.78%	4.25%	6.27%	59.40%	7.31%
NEW YORK	6.48%	1.83%	4.57%	88.26%	182.38%	90.11%
NORTH CAROLINA	10.30%	4.35%	5.70%	0.22%	50.33%	1.20%
NORTH DAKOTA	-1.48%	-0.26%	-1.23%	-21.41%	17.89%	-20.63%
OHIO	9.26%	1.73%	7.40%	-31.02%	3.48%	-30.34%
OKLAHOMA	7.27%	0.10%	7.16%	35.83%	103.74%	37.16%
OREGON	7.66%	-0.69%	8.41%	38.38%	107.57%	39.74%
PENNSYLVANIA	12.69%	1.33%	11.20%	71.63%	157.45%	73.32%
PUERTO RICO	13.76%	8.73%	4.62%	0.00%	0.00%	0.00%
RHODE ISLAND	1.54%	3.54%	-1.93%	0.00%	0.00%	0.00%
SOUTH CAROLINA	12.63%	3.79%	8.52%	-34.93%	-2.40%	-34.29%
SOUTH DAKOTA	-1.15%	0.88%	-2.01%	-19.38%	20.93%	-18.59%

TABLE 3.4

% CHANGES

PAGE 2

NATIONAL EXCHANGE CARRIERS ASSOCIATION  
 UNIVERSAL SERVICE FUND  
 EXPENSE ADJUSTMENT  
 STATE SUMMARY  
 PERCENTAGE CHANGES FROM 1985 TO 1986

STATE	UNSEPARATED REVENUE REQUIREMENT	LOOPS	UNSEPARATED REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FULL EXPENSE ADJUSTMENT	UNIVERSAL SERVICE FUND EXPENSE ADJUSTMENT APPLICABLE TO SPECIFIED YEAR	PERCENT OF TOTAL
TENNESSEE	5.66%	1.89%	3.71%	-16.78%	24.84%	-15.96%
TEXAS	9.79%	2.29%	7.33%	18.72%	78.08%	19.88%
UTAH	14.39%	1.61%	12.58%	3.76%	55.65%	4.78%
VERMONT	12.38%	3.41%	8.67%	3.82%	55.72%	4.84%
VIRGIN ISLANDS	31.58%	11.17%	18.35%	97.78%	196.67%	99.72%
VIRGINIA	7.98%	3.91%	3.92%	43.95%	115.93%	45.37%
WASHINGTON	11.57%	1.59%	9.82%	27.78%	91.67%	29.04%
WEST VIRGINIA	4.41%	2.47%	1.89%	-50.55%	-25.82%	-50.06%
WISCONSIN	6.51%	1.50%	4.93%	-36.19%	-4.28%	-35.56%
WYOMING	-1.79%	-5.32%	3.73%	-63.96%	-45.94%	-63.61%
INDUSTRY TOTAL	7.23%	1.99%	5.14%	-0.97%	48.54%	0.00%

TOTAL NUMBER OF STUDY AREA CODES: -1.13%



NATIONAL EXCHANGE CARRIERS ASSOCIATION  
UNIVERSAL SERVICE FUND  
EXPENSE ADJUSTMENT  
STUDY AREA DETAIL FOR ALL EXCHANGE CARRIERS  
SUPPORT DETERMINATION AT 200,000 LOOPS

STUDY AREA	UNSEPARATED REVENUE REQUIREMENT	LOOPS	UNSEPARATED REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FULL EXPENSE ADJUSTMENT	UNIVERSAL SERVICE FUND EXPENSE ADJUSTMENT APPLICABLE TO 1988	PERCENT OF TOTAL
<b>ALABAMA</b>						
CONTEL OF THE SOUTH	28,618,401	69,898	409.43	6,936,567	2,601,213	1.450
BLOUNTSVILLE TEL CO	422,840	1,792	235.96	0	0	0.000
BRINDLEE MOUNTAIN	1,956,580	8,292	235.96	0	0	0.000
BUTLER TEL CO	1,064,047	3,199	332.62	137,891	51,709	0.029
CASTLEBERRY TEL CO	154,790	656	235.96	0	0	0.000
NATIONAL OF ALABAMA	398,536	1,689	235.96	0	0	0.000
ELMORE COOSA TEL CO	714,959	3,030	235.96	0	0	0.000
FARMERS TEL COOP -AL	3,021,940	12,807	235.96	0	0	0.000
GTC OF THE SO-AL	34,421,864	108,094	318.44	3,663,027	1,373,635	0.766
GRACEBA TOTAL COMM	931,046	3,315	280.86	31,361	11,760	0.007
GOSHEN TEL CO	141,340	599	235.96	0	0	0.000
GROVE HILL TEL CORP	457,262	1,589	287.77	22,169	8,313	0.005
GULF TEL CO - AL	6,524,300	20,940	311.57	616,095	231,036	0.129
HAYNEVILLE TEL CO	321,613	1,363	235.96	0	0	0.000
HOPPER TEL. CO INC	992,859	2,548	389.66	215,079	80,655	0.045
LAMAR COUNTY TEL CO	404,199	1,713	235.96	0	0	0.000
ALLTEL ALABAMA	2,750,586	11,657	235.96	0	0	0.000
MILRY TEL CO	2,020,293	4,356	463.80	609,909	228,716	0.127
MCN-CRE TEL COOP	447,380	1,896	235.96	0	0	0.000
MONROEVILLE TEL CO	2,773,108	8,928	310.61	257,107	96,415	0.054
MOUNDVILLE TEL CO	240,443	1,019	235.96	0	0	0.000
NEW HOPE TEL COOP	920,480	3,901	235.96	0	0	0.000
OAKMAN TEL CO (TDS)	445,257	1,887	235.96	0	0	0.000
ONEONTA TEL CO	1,103,821	4,678	235.96	0	0	0.000
PEOPLES TEL CO	3,327,170	8,951	371.71	635,059	238,147	0.133
PINE BELT TEL CO	525,305	1,742	301.55	39,907	14,965	0.008
RAGLAND TEL CO	261,553	877	298.24	18,204	6,827	0.004
ROANOKE TEL CO	830,579	3,520	235.96	0	0	0.000
SOUTHLAND TEL CO-AL	2,603,442	8,728	298.29	181,454	68,045	0.038
UNION SPRINGS TEL CO	781,735	3,313	235.96	0	0	0.000
SOUTHEAST MS TEL CO	435,228	687	633.52	183,639	68,865	0.038
SO CENTRAL BELL-AL	317,619,205	1,270,177	250.06	0	0	0.000
<b>STATE TOTAL</b>	<b>417,632,162</b>	<b>1,577,841</b>	<b>264.69</b>	<b>13,547,468</b>	<b>5,080,301</b>	<b>2.832</b>
<b>ALASKA</b>						
ANCHORAGE TEL UTIL	21,191,685	117,934	179.69	0	0	0.000
ARCTIC SLOPE TEL	1,562,330	1,091	1,432.02	945,003	354,376	0.198
BETTLES TEL CO INC	25,568	44	581.08	10,030	3,761	0.002
BRISTOL BAY TEL COOP	724,758	834	869.01	370,232	138,837	0.077

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<b>ALASKA (CONT.)</b>						
BUSH-TELL INC.	313,674	442	709.67	143,392	53,772	0.030
CIRCLE UTILITIES	12,857	18	714.28	5,901	2,213	0.001
COPPER VALLEY TEL	1,608,461	3,211	500.92	538,985	202,119	0.113
CORDOVA TEL COOP	537,916	1,171	459.36	160,059	60,022	0.033
FAIRBANKS MUNICIPAL	10,763,526	22,445	479.55	3,407,788	1,277,921	0.712
GTC OF ALASKA	2,031,186	11,122	182.63	0	0	0.000
GLACIER STATE TEL CO	20,607,808	22,386	920.57	10,803,336	4,051,251	2.258
INTERIOR TEL CO INC	1,600,549	1,845	867.51	816,963	306,361	0.171
JUNEAU & DOUGLAS TEL	5,704,062	14,684	388.45	1,226,164	459,812	0.256
KETCHIKAN PUBLIC UT	3,366,201	6,119	550.12	1,252,901	469,838	0.262
MATANUSKA TEL ASSOC	16,085,784	26,276	612.19	6,603,380	2,476,268	1.380
MUKLUK TEL CO INC	652,481	558	1,169.32	373,389	140,021	0.078
NATIONAL UTILITIES	395,451	1,056	374.48	77,115	28,918	0.016
NUSHAGAK TEL COOP	755,356	1,169	646.16	323,562	121,336	0.068
OTZ TEL COOPERATIVE	667,711	1,658	402.72	156,193	58,572	0.033
SITKA TELEPHONE CO	3,851,660	6,616	582.17	1,513,697	567,636	0.316
TEL UTIL OF ALASKA	269,701	2,029	132.92	0	0	0.000
UNITED UTILITIES INC	1,905,386	3,201	595.25	763,769	286,413	0.160
YUKON TEL CO INC	240,269	337	712.96	110,160	41,310	0.023
NORTH COUNTRY TEL CO	41,051	85	482.95	13,122	4,921	0.003
SUMMIT TEL & TEL -AK	15,056	22	684.38	6,719	2,520	0.001
<b>STATE TOTAL</b>	<b>94,930,486</b>	<b>246,353</b>	<b>385.34</b>	<b>29,621,860</b>	<b>11,108,198</b>	<b>6.192</b>
<b>ARIZONA</b>						
ARIZONA TELEPHONE CO	862,846	1,542	559.56	326,650	122,494	0.068
CITIZENS UTILITIES	16,363,146	39,718	411.98	4,017,512	1,506,567	0.840
SOUTHWESTERN TEL CO	432,751	1,834	235.96	0	0	0.000
UNIVERSAL TEL OF SW	311,571	930	335.02	41,537	15,576	0.009
VALLEY TEL COOP-AZ	1,247,472	1,660	751.49	590,600	221,475	0.123
CONTEL OF WEST-AZ	11,479,593	21,119	543.57	4,220,493	1,582,685	0.882
NAVAJO COMMUN-AZ	6,553,932	6,777	967.08	3,506,934	1,315,100	0.733
CONTEL CALIF - AZ	2,272,263	4,565	497.76	755,443	283,291	0.158
MOUNTAIN BELL - AZ	403,414,585	1,530,985	263.50	0	0	0.000
<b>STATE TOTAL</b>	<b>442,938,160</b>	<b>1,609,130</b>	<b>275.27</b>	<b>13,459,169</b>	<b>5,047,188</b>	<b>2.813</b>
<b>ARKANSAS</b>						
ALLTEL ARKANSAS INC	17,227,835	52,803	326.27	2,058,098	771,787	0.430

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<b>ARKANSAS (CONT.)</b>						
ARKANSAS TEL CO	1,520,212	5,187	293.08	90,271	33,852	0.019
CENTRAL ARKANSAS TEL	624,317	1,877	332.61	80,894	30,335	0.017
CLEVELAND COUNTY TEL	476,502	1,360	350.37	74,723	28,021	0.016
DECATUR TEL CO INC	217,556	654	332.65	28,203	10,576	0.006
SOUTH ARKANSAS TEL	960,837	3,052	314.82	96,243	36,091	0.020
LAVACA TEL CO-AR	249,646	1,058	235.96	0	0	0.000
LIBERTY TEL & COMM	3,119,455	9,630	323.93	360,700	135,263	0.075
MADISON COUNTY TEL	618,593	1,821	339.70	86,873	32,577	0.018
MAGAZINE TEL CO	177,873	606	293.52	10,719	4,020	0.002
MOUNTAIN HOME TEL	3,426,365	12,794	267.81	12,511	4,692	0.003
MOUNTAIN VIEW TEL CO	802,448	3,158	254.10	0	0	0.000
NORTH ARKANSAS TEL	1,262,442	3,628	347.97	192,804	72,302	0.040
PERCO TELEPHONE CO	545,070	1,899	287.03	25,581	9,593	0.005
PRAIRIE GROVE TEL CO	1,320,668	5,597	235.96	0	0	0.000
REDFIELD TEL CO	478,883	1,237	387.13	102,069	38,276	0.021
RICE BELT TEL CO	260,594	867	300.57	19,309	7,241	0.004
E RITTER TEL CO	643,328	3,830	167.97	0	0	0.000
SW ARKANSAS TEL COOP	1,442,542	4,237	340.46	204,225	76,584	0.043
TRI-COUNTY TEL CO-AR	1,338,850	3,275	408.81	323,482	121,306	0.068
UNION TEL CO INC	338,379	797	424.57	88,142	33,053	0.018
UTC OF ARKANSAS	3,983,707	14,817	268.86	24,602	9,226	0.005
WALNUT HILL TEL CO	1,974,030	4,136	477.28	620,920	232,845	0.130
CONTEL OF ARKANSAS	22,440,073	59,621	376.38	4,438,838	1,664,564	0.928
YELCOT TEL CO INC	768,182	2,357	325.92	91,332	34,250	0.019
YELL COUNTY TEL CO	859,608	3,838	223.97	0	0	0.000
GTC OF THE SW-AR	21,196,913	56,901	372.52	4,071,603	1,526,851	0.851
SOUTHWESTERN BELL-AR	203,972,885	660,625	308.76	2,804,650	1,051,744	0.586
<b>STATE TOTAL</b>	<b>292,247,796</b>	<b>921,662</b>	<b>317.09</b>	<b>15,906,792</b>	<b>5,965,047</b>	<b>3.325</b>
<b>CALIFORNIA</b>						
CALAVERAS TEL CO	742,588	1,364	544.42	273,455	102,546	0.057
CONTEL OF CALIFORNIA	101,180,718	226,745	446.23	7,513,433	2,817,537	1.571
C P NATIONAL CORP-CA	4,618,366	10,655	433.45	1,249,335	468,501	0.261
CAPAY VALLEY TEL SYS	187,181	400	467.95	57,251	21,469	0.012
CITIZENS UTIL OF CA	25,231,447	46,485	542.79	9,262,527	3,473,448	1.936
CALIF-OREGON TEL CO	1,024,712	2,009	510.06	350,994	131,623	0.073
DUCOR TELEPHONE CO	268,574	534	502.95	90,448	33,918	0.019
EVANS TEL CO.	2,145,494	6,097	351.89	341,940	128,228	0.071
FORESTHILL TEL CO.	549,611	1,511	363.74	98,171	36,814	0.021

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<b>CALIFORNIA (CONT.)</b>						
GTC OF CALIFORNIA	859,451,552	2,757,888	311.63	12,499,989	4,687,496	2.613
HAPPY VALLEY TEL CO	1,310,167	2,238	585.42	517,494	194,060	0.108
HORNITOS TEL CO	377,990	394	959.37	201,607	75,603	0.042
KERMAN TELEPHONE CO	1,103,263	3,706	297.70	75,626	28,360	0.016
PONDEROSA TEL CO	3,794,475	5,044	752.28	1,797,560	674,085	0.376
ROSEVILLE TEL CO	12,726,268	56,047	227.06	0	0	0.000
SIERRA TELEPHONE CO	5,080,695	10,186	498.79	1,693,508	635,066	0.354
SISKIYOU TEL CO	1,669,899	2,881	579.62	653,643	245,116	0.137
TUOLUMNE TEL CO	3,879,369	3,862	1,004.50	2,106,879	790,080	0.440
VOLCANO TEL CO	2,733,224	6,756	404.56	645,778	242,167	0.135
WEST COAST TEL OF CA	2,489,681	8,338	298.59	174,972	65,615	0.037
PINNACLES TEL CO	67,734	107	633.03	28,562	10,711	0.006
PACIFIC BELL	2,335,863,742	11,265,589	207.35	0	0	0.000
<b>STATE TOTAL</b>	<b>3,366,496,750</b>	<b>14,418,836</b>	<b>233.48</b>	<b>39,633,172</b>	<b>14,862,440</b>	<b>8.284</b>
<b>COLORADO</b>						
SUNFLOWER TEL - CO	151,835	308	492.97	49,863	18,699	0.010
AGATE TEL CO	26,425	46	574.46	10,258	3,847	0.002
BIJOU TEL COOP ASSOC	282,705	938	301.39	21,391	8,022	0.004
BLANCA TEL CO	250,782	429	584.57	98,924	37,097	0.021
DELTA COUNTY TEL CO	1,323,430	5,747	230.28	0	0	0.000
EAGLE TELECOMMUN INC	2,640,657	4,303	613.68	1,086,188	407,321	0.227
EASTERN SLOPE RURAL	1,158,639	3,831	302.44	89,980	33,743	0.019
EL PASO COUNTY TEL	806,175	1,634	493.38	265,036	99,389	0.055
FARMERS TEL CO - CO	166,799	271	615.49	68,775	25,791	0.014
HAXTUN TEL CO	301,655	1,099	274.48	5,839	2,190	0.001
BIG SANDY TELCOMM	450,250	652	690.57	202,180	75,818	0.042
NUCLA-NATURITA TEL	551,762	1,091	505.74	187,074	70,153	0.039
NURN TEL CO	150,525	253	594.96	60,311	22,617	0.013
PEETZ COOP TEL CO	92,258	182	506.91	31,367	11,763	0.007
PHILLIPS COUNTY TEL	255,133	1,609	158.57	0	0	0.000
PINE DRIVE TEL CO	104,869	442	237.26	0	0	0.000
PLAINS COOP TEL ASSN	478,205	1,434	333.48	62,613	23,480	0.013
RICO TEL CO	41,384	86	481.21	13,164	4,937	0.003
ROGGEN TEL COOP CO	63,377	165	384.10	13,239	4,965	0.003
RYE TELEPHONE CO	605,223	1,208	501.01	202,851	76,069	0.042
COLUMBINE TEL CO	358,872	583	615.56	147,986	55,495	0.031
STONEHAM COOP TEL CO	26,425	46	574.46	10,258	3,847	0.002
STRASBURG TEL CO	228,406	846	269.98	2,020	758	0.000

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<b>COLORADO (CONT.)</b>						
UNIVERSAL TEL CO -CO	1,185,961	3,618	327.79	144,593	54,222	0.030
WIGGINS TEL ASSOC	413,125	1,038	398.00	94,111	35,292	0.020
WILLARD TEL CO	30,528	56	545.14	11,257	4,221	0.002
MOUNTAIN BELL-CO	347,386,873	1,639,617	211.87	0	0	0.000
STATE TOTAL	359,532,276	1,671,532	215.09	2,879,278	1,079,729	0.602
<b>CONNECTICUT</b>						
WOODBURY TEL CO	3,201,977	13,570	235.96	0	0	0.000
SOUTHERN NEW ENGLAND	340,292,631	1,673,272	203.37	0	0	0.000
STATE TOTAL	343,494,608	1,686,842	203.63	0	0	0.000
<b>DELAWARE</b>						
DIAMOND STATE TEL	65,659,079	348,315	188.50	0	0	0.000
STATE TOTAL	65,659,079	348,315	188.50	0	0	0.000
<b>DISTRICT OF COLUMBIA</b>						
C & P TEL CO OF WASH	86,402,458	767,536	112.57	0	0	0.000
STATE TOTAL	86,402,458	767,536	112.57	0	0	0.000
<b>FLORIDA</b>						
FLORALA TEL CO	983,541	2,483	396.11	221,603	83,101	0.046
SOUTHLAND TEL-FL	908,141	2,727	333.02	118,254	44,345	0.025
GTC OF FLORIDA	372,815,344	1,415,170	263.44	0	0	0.000
GULF TEL CO	1,736,371	6,496	267.30	4,199	1,575	0.001
VISTA-UNITED TELCOM	1,365,656	2,221	614.88	562,636	210,989	0.118
INDIANTOWN SYSTEM	1,059,426	1,726	613.80	435,842	163,441	0.091
NORTHEAST FLORIDA	1,889,162	4,254	444.09	532,742	199,778	0.111
ALLTEL FLORIDA INC.	16,496,436	40,782	404.50	3,896,349	1,461,131	0.814
QUINCY TEL CO-FL DIV	2,261,945	7,002	323.04	258,215	96,831	0.054
ST JOSEPH TEL & TEL	5,692,420	18,877	301.55	432,451	162,169	0.090
CENTEL OF FLORIDA	48,009,442	206,235	232.79	0	0	0.000
UTC OF FLORIDA	223,344,607	788,130	283.39	1,346,480	504,930	0.281
SOUTHERN BELL-FL	1,223,254,171	3,670,545	333.26	24,575,950	9,215,981	5.137

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<b>FLORIDA (CONT.)</b>						
STATE TOTAL	1,899,816,661	6,166,648	308.08	32,384,721	12,144,270	6.769
<b>GEORGIA</b>						
CONTEL OF SOUTH - GA	16,176,157	47,595	339.87	2,275,846	853,442	0.476
VALLEY TEL CO - GA	611,051	3,873	157.77	0	0	0.000
QUINCY TEL CO-GA DIV	183,730	517	355.38	30,348	11,381	0.006
ALMA TEL CO	1,859,377	4,856	382.90	385,279	144,480	0.081
BLUE RIDGE TEL CO	1,136,383	4,816	235.96	0	0	0.000
BRANTLEY TEL CO	924,108	2,302	401.44	214,652	80,495	0.045
BULLOCH COUNTY RURAL	1,114,439	4,723	235.96	0	0	0.000
CAMDEN TEL & TEL CO	3,038,008	7,611	399.16	696,679	261,255	0.146
CHICKAMAUGA TEL COOP	956,110	4,052	235.96	0	0	0.000
CITIZENS TEL CO - GA	1,201,257	3,639	330.11	150,919	56,595	0.032
COASTAL UTILITIES	4,930,261	17,711	278.37	138,888	52,083	0.029
ALLTEL GEORGIA INC.	7,484,179	31,718	235.96	0	0	0.000
DARIEN TEL CO	884,441	3,075	287.62	42,602	15,976	0.009
ELLIJAY TEL CO	1,458,134	5,635	258.76	0	0	0.000
FAIRMOUNT TEL CO	329,400	1,396	235.96	0	0	0.000
GEORGIA TEL CORP	1,060,404	4,494	235.96	0	0	0.000
GLENWOOD TEL CO	156,441	663	235.96	0	0	0.000
HART COUNTY TEL CO	1,365,736	5,788	235.96	0	0	0.000
HAWKINSVILLE TEL CO	761,679	3,228	235.96	0	0	0.000
INTERSTATE TEL CO	1,075,603	8,793	122.32	0	0	0.000
NELSON-BALL GROUND	690,655	2,927	235.96	0	0	0.000
PEMBROKE TEL CO	553,562	2,346	235.96	0	0	0.000
PINELAND TEL COOP	2,251,654	8,274	272.14	31,378	11,767	0.007
PLANTERS RURAL COOP	1,138,507	4,825	235.96	0	0	0.000
PLANT TEL. CO.	2,784,879	6,526	426.74	732,353	274,632	0.153
PROGRESSIVE RURAL	754,600	3,198	235.96	0	0	0.000
PUBLIC SERVICE TEL	2,863,919	6,827	419.50	729,061	273,398	0.152
RINGGOLD TEL CO	1,618,686	6,860	235.96	0	0	0.000
STANDARD TEL CO	10,120,161	28,481	355.33	1,670,792	626,547	0.349
STATESBORO TEL CO	2,750,822	11,658	235.96	0	0	0.000
TRENTON TEL CO	937,941	3,975	235.96	0	0	0.000
WAVERLY HALL TEL CO	233,608	824	283.50	9,209	3,453	0.002
WILKES TEL & ELC CO	1,446,743	8,146	177.60	0	0	0.000
WILKINSON COUNTY TEL	737,847	3,127	235.96	0	0	0.000
GTC OF THE SO-GA	55,022,348	176,772	311.26	5,165,352	1,937,007	1.080
SOUTHERN BELL-GA	626,126,623	2,298,014	272.46	1,414,312	530,367	0.296

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EXPENSE ADJUSTMENT  
STUDY AREA DETAIL FOR ALL EXCHANGE CARRIERS  
SUPPORT DETERMINATION AT 200,000 LOOPS

STUDY AREA	UNSEPARATED REVENUE REQUIREMENT	LOOPS	UNSEPARATED REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FULL EXPENSE ADJUSTMENT	UNIVERSAL SERVICE FUND EXPENSE ADJUSTMENT APPLICABLE TO 1988	PERCENT OF TOTAL
<b>GEORGIA (CONT.)</b>						
STATE TOTAL	756,739,454	2,739,265	276.26	13,687,670	5,132,876	2.861
<b>HAWAII</b>						
HAWAIIAN TEL CO	83,488,176	483,933	172.52	0	0	0.000
STATE TOTAL	83,488,176	483,933	172.52	0	0	0.000
<b>IDAHO</b>						
CONTEL OF WEST-ID	6,808,799	11,426	595.90	2,731,852	1,024,445	0.571
ALBION TEL CO INC	687,037	825	832.77	343,813	128,930	0.072
CAMBRIDGE TEL CO	430,010	811	530.22	153,952	57,732	0.032
CUSTER TEL COOP	495,315	1,367	362.34	87,379	32,767	0.018
FILER MUTUAL TEL -ID	356,300	1,510	235.96	0	0	0.000
FARMERS MUTUAL TEL	345,681	1,465	235.96	0	0	0.000
GEM STATE UTIL-ID	901,682	818	1,102.30	506,252	189,845	0.106
CENTURY TEL OF IDAHO	1,209,700	2,225	543.69	444,851	166,819	0.093
MIDVALE TEL EXCH INC	198,214	303	654.17	85,686	32,132	0.018
MUD LAKE TEL COOP	350,230	975	359.21	60,034	22,513	0.013
POTLATCH TEL CO INC	168,428	544	309.61	15,312	5,742	0.003
PROJECT MUTUAL TEL	1,116,808	5,872	190.19	0	0	0.000
ROCKLAND TEL CO INC	255,382	356	717.36	117,546	44,080	0.025
RURAL TEL CO - ID	284,214	184	1,544.64	174,918	65,594	0.037
TROY TELEPHONE CO	268,727	637	421.86	69,153	25,932	0.014
SILVER STAT TEL- ID	168,252	318	529.09	60,096	22,536	0.013
GTC OF THE NW-ID	26,213,097	61,925	423.30	6,789,513	2,546,067	1.419
INLAND TEL-ID	174,003	170	1,023.55	95,170	35,689	0.020
MOUNTAIN BELL-ID	80,984,188	306,632	264.11	0	0	0.000
PACIFIC NW BELL-ID	5,272,399	21,247	248.15	0	0	0.000
STATE TOTAL	126,688,465	419,610	301.92	11,735,527	4,400,823	2.453
<b>ILLINOIS</b>						
ADAMS TEL COOP	1,154,186	3,925	294.06	70,808	26,553	0.015
ALHAMBRA-GRANTFORK	214,724	910	235.96	0	0	0.000
CAMBRIDGE TEL CO -IL	369,513	1,566	235.96	0	0	0.000
CASS COUNTY TEL CO	533,270	2,260	235.96	0	0	0.000
CENTEL OF ILLINOIS	26,103,314	153,667	169.87	0	0	0.000

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ILLINOIS (CONT.)						
CHANDLERVILLE TEL CO	116,800	495	235.96	0	0	0.000
CLARKSVILLE MUTUAL	56,156	136	412.91	13,851	5,194	0.003
CROSSVILLE TEL CO	161,633	685	235.96	0	0	0.000
DEPUE TEL CO	179,330	760	235.96	0	0	0.000
ALLTEL ILLINOIS INC.	5,972,946	38,370	155.67	0	0	0.000
EGYPTIAN COOP ASSN	693,850	2,445	283.78	27,771	10,414	0.006
EL PASO TEL CO	338,932	1,488	227.78	0	0	0.000
C-R TEL CO	215,728	869	248.25	0	0	0.000
LAKESIDE TEL CO	230,574	723	318.91	24,721	9,270	0.005
FLAT ROCK MUTUAL TEL	106,418	451	235.96	0	0	0.000
GTC OF ILLINOIS	115,799,196	491,281	235.71	0	0	0.000
GENESEO TEL CO	1,414,816	5,996	235.96	0	0	0.000
GLASFORD TEL CO	240,207	1,018	235.96	0	0	0.000
GRAFTON TEL CO	163,048	691	235.96	0	0	0.000
GRANDVIEW MUTUAL TEL	45,873	100	458.73	13,621	5,108	0.003
GRIDLEY TEL CO	246,274	1,101	223.68	0	0	0.000
HAMILTON COUNTY COOP	616,725	2,081	296.36	40,653	15,245	0.008
SHAWNEE TELEPHONE CO	904,456	3,569	253.42	0	0	0.000
HARRISONVILLE TEL CO	3,039,873	12,883	235.96	0	0	0.000
HENRY COUNTY TEL CO	336,007	1,424	235.96	0	0	0.000
HOME TEL CO-ST JACOB	167,060	708	235.96	0	0	0.000
CONTEL OF ILLINOIS	42,528,273	154,241	275.73	944,868	354,326	0.198
IL CONSOLIDATED TEL	18,011,335	72,657	247.90	0	0	0.000
INLAND TEL CO	1,085,701	4,021	270.01	9,682	3,631	0.002
KINSMAN MUTUAL TEL	39,359	80	491.99	12,892	4,835	0.003
LA HARPE TEL CO	251,061	1,064	235.96	0	0	0.000
LEAF RIVER VLY TEL	174,758	561	311.51	16,483	6,181	0.003
LEONORE MUTUAL TEL	56,156	136	412.91	13,851	5,194	0.003
MCDONOUGH TEL COOP	1,149,518	4,257	270.03	10,305	3,864	0.002
MENABB TEL CO	101,869	410	248.46	0	0	0.000
MADISON TEL CO	302,664	1,201	252.01	0	0	0.000
MARSEILLES TEL CO	662,812	2,809	235.96	0	0	0.000
METAMORA TEL CO	584,473	2,477	235.96	0	0	0.000
MID CENTURY TEL COOP	1,154,186	3,925	294.06	70,808	26,553	0.015
MIDLAND TEL CO	1,333,450	3,897	342.17	192,168	72,063	0.040
MONROSE MUTUAL TEL	367,596	1,297	283.42	14,428	5,411	0.003
MOULTRIE INDEPENDENT	117,847	670	175.89	0	0	0.000
MT PULASKI TEL & ELE	413,402	1,752	235.96	0	0	0.000
NEW WINDSOR TEL CO	135,441	574	235.96	0	0	0.000
ODIN TEL EXCH INC	255,309	1,082	235.96	0	0	0.000
ONEIDA TEL EXCHANGE	111,373	472	235.96	0	0	0.000



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<b>ILLINOIS (CONT.)</b>						
ORION TEL EXCH ASSN	387,446	1,642	235.96	0	0	0.000
PRAIRIE TEL CO	189,924	941	201.83	0	0	0.000
REYNOLDS TEL CO, INC	124,823	529	235.96	0	0	0.000
SCHUYLER TEL CO - IL	603,586	2,558	235.96	0	0	0.000
TONICA TEL CO	107,598	456	235.96	0	0	0.000
VIOLA HOME TEL CO	161,869	686	235.96	0	0	0.000
WABASH TEL COOP, INC	1,042,235	4,417	235.96	0	0	0.000
WOODHULL COMMUNITY	147,239	624	235.96	0	0	0.000
STELLE TEL CO	32,858	62	529.97	11,757	4,409	0.002
YATES CITY TEL CO	115,384	489	235.96	0	0	0.000
ILLINOIS BELL TEL CO	726,087,728	4,774,752	152.07	0	0	0.000
<b>STATE TOTAL</b>	<b>957,258,178</b>	<b>5,774,341</b>	<b>165.78</b>	<b>1,488,667</b>	<b>558,250</b>	<b>0.311</b>
<b>INDIANA</b>						
BLOOMINGDALE HOME	131,430	557	235.96	0	0	0.000
CAMDEN TEL CO - IN	347,097	1,471	235.96	0	0	0.000
CENTRAL INDIANA TEL	510,146	2,162	235.96	0	0	0.000
CITIZENS TEL CO	488,673	2,071	235.96	0	0	0.000
CITIZENS TEL CORP	337,187	1,429	235.96	0	0	0.000
CLAY CTY RURAL COOP	1,216,575	5,363	226.85	0	0	0.000
CRAIGVILLE TEL CO	125,767	533	235.96	0	0	0.000
DAVISS-MARTIN RURAL	516,516	2,189	235.96	0	0	0.000
ELMORA TEL CO	73,991	414	178.72	0	0	0.000
GARRETT TEL CO	367,925	2,250	163.52	0	0	0.000
GREETINGSVILLE TEL CO	102,747	419	245.22	0	0	0.000
GTC OF INDIANA	117,024,366	536,233	218.23	0	0	0.000
HANCOCK RURAL CORP	1,037,280	4,396	235.96	0	0	0.000
COMM CORP OF INDIANA	1,596,505	6,766	235.96	0	0	0.000
HOME CO OF PITTSBORO	313,827	1,330	235.96	0	0	0.000
HOME TEL CO INC	607,298	1,765	344.08	89,226	33,460	0.019
COMTEL OF INDIANA	34,522,717	123,858	278.73	1,000,267	375,100	0.209
LIGONIER TEL CO	448,324	1,900	235.96	0	0	0.000
LIBERTY CENTER TEL	129,070	547	235.96	0	0	0.000
MERCHANTS & FARMERS	120,104	509	235.96	0	0	0.000
MONON TEL CO	297,310	1,260	235.96	0	0	0.000
MONROVIA TEL CORP	491,269	2,082	235.96	0	0	0.000
MULBERRY COOP TEL CO	405,379	1,718	235.96	0	0	0.000
NEW LISBON TEL CO	175,318	743	235.96	0	0	0.000
NEW PARIS TEL INC	345,653	1,404	246.19	0	0	0.000

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<b>INDIANA (CONT.)</b>						
NORTHWESTERN INDIANA	1,550,257	6,570	235.96	0	0	0.000
ODON TEL CO	235,960	1,000	235.96	0	0	0.000
PERRY-SPENCER RURAL	1,132,247	3,749	302.01	87,006	32,627	0.018
POSEYVILLE TEL CO	187,352	794	235.96	0	0	0.000
PULASKI-WHITE RURAL	428,289	1,550	276.32	10,089	3,783	0.002
ROCHESTER TEL CO	1,024,066	4,340	235.96	0	0	0.000
S & W TEL CO	109,957	466	235.96	0	0	0.000
SMITHVILLE TEL CO	4,636,850	19,651	235.96	0	0	0.000
SE INDIANA RURAL	688,059	2,916	235.96	0	0	0.000
SUNMAN TEL CO	696,082	2,950	235.96	0	0	0.000
SWAYZEE TEL CO	216,847	919	235.96	0	0	0.000
SWEETSER RURAL TEL	306,040	1,297	235.96	0	0	0.000
THORNTOWN TEL CO	448,560	1,901	235.96	0	0	0.000
TIPTON TEL CO	910,334	3,858	235.96	0	0	0.000
TRI-COUNTY TEL CO	495,700	2,638	187.91	0	0	0.000
ALLTEL INDIANA INC.	1,820,667	7,716	235.96	0	0	0.000
UTC OF INDIANA	43,248,479	160,887	268.81	261,911	98,217	0.055
WADESVILLE TEL CO	104,511	438	238.61	0	0	0.000
WASHINGTON CTY RURAL	478,999	2,030	235.96	0	0	0.000
WEST POINT TEL CO	132,845	563	235.96	0	0	0.000
YEOMAN TEL CO, INC	238,485	970	245.86	0	0	0.000
INDIANA BELL TEL CO	259,594,896	1,437,155	180.63	0	0	0.000
<b>STATE TOTAL</b>	<b>480,417,959</b>	<b>2,367,727</b>	<b>202.90</b>	<b>1,448,499</b>	<b>543,187</b>	<b>0.303</b>
<b>IOWA</b>						
AMANA SOC SERV CO	211,184	895	235.96	0	0	0.000
ANDREW TEL CO INC	88,208	298	296.00	5,751	2,157	0.001
ARCADIA TEL CO	88,503	300	295.01	5,597	2,099	0.001
ATKINS TEL CO, INC	121,283	514	235.96	0	0	0.000
AYRSHIRE FARMERS MUT	82,144	359	228.81	0	0	0.000
BALDWIN-NASHVILLE	88,208	298	296.00	5,751	2,157	0.001
BARNES CITY COOP	64,079	168	381.42	13,142	4,928	0.003
BERNARD TEL CO INC	195,096	439	444.41	55,082	20,656	0.012
BREDA TEL COOP	228,409	968	235.96	0	0	0.000
BROOKLYN MUTUAL TEL	193,999	1,323	146.64	0	0	0.000
THE BURT TEL CO	102,652	418	245.58	0	0	0.000
BUTLER-BREMER MUTUAL	421,896	1,788	235.96	0	0	0.000
CASCADE TEL CO	314,063	1,331	235.96	0	0	0.000
CASEY MUTUAL TEL CO	102,164	413	247.37	0	0	0.000

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IOWA (CONT.)						
CENTER JUNCTION TEL	55,359	133	416.23	13,877	5,204	0.003
CENTRAL SCOTT TEL CO	859,130	3,641	235.96	0	0	0.000
CHESTER TEL CO -IOWA	71,906	204	352.48	11,531	4,324	0.002
CENTEL OF IOWA	10,576,671	44,824	235.96	0	0	0.000
THE CITIZENS MUTUAL	773,477	3,278	235.96	0	0	0.000
CLARENCE TEL CO	171,307	726	235.96	0	0	0.000
CLEAR LAKE INDEPEND	1,294,948	5,488	235.96	0	0	0.000
C-M-L TEL COOP ASSN	275,722	759	363.27	49,045	18,392	0.010
COLO TEL CO	126,475	536	235.96	0	0	0.000
COON CREEK TEL CO	121,991	517	235.96	0	0	0.000
COON VALLEY COOP TEL	177,873	606	293.52	10,719	4,020	0.002
COOPERATIVE TEL CO	356,765	1,219	292.67	20,889	7,833	0.004
CORN BELT TEL CO	160,453	680	235.96	0	0	0.000
CUMBERLAND TEL CO	99,697	389	256.29	0	0	0.000
DANVILLE MUTUAL TEL	187,588	795	235.96	0	0	0.000
DEEP RIVER MUTUAL	87,169	291	299.55	6,288	2,358	0.001
DEFLIANCE TEL CO	78,961	241	327.64	9,608	3,603	0.002
DIXON TEL CO	127,182	539	235.96	0	0	0.000
DUMONT TEL CO	127,418	540	235.96	0	0	0.000
DUNKERTON TEL COOP	116,008	628	184.73	0	0	0.000
EAST BUCHANAN COOP	310,235	1,278	242.75	0	0	0.000
ELLSWORTH COOP ASSN	170,808	559	305.56	14,263	5,349	0.003
FARMERS & BUSINESSME	224,870	953	235.96	0	0	0.000
FARMERS COOP TEL CO	267,815	1,135	235.96	0	0	0.000
FARMERS & MERCHANTS	158,565	672	235.96	0	0	0.000
FARMERS MUTUAL COOP	556,466	1,708	325.80	66,050	24,769	0.014
FARMERS MUTUAL COOP	132,374	561	235.96	0	0	0.000
FARMERS MUTUAL JESUP	379,188	1,607	235.96	0	0	0.000
FARMERS MUTUAL TEL	515,809	2,186	235.96	0	0	0.000
FARMERS MUTUAL TEL	344,266	1,459	235.96	0	0	0.000
FARMERS MUTUAL TEL	286,377	1,056	271.19	3,352	1,257	0.001
FARMERS TEL CO - BAT	97,125	366	265.37	0	0	0.000
FARMERS TEL CO-ESSEX	155,498	659	235.96	0	0	0.000
FARMERS TEL CO -RICE	411,271	1,679	244.95	0	0	0.000
FENTON CO-OP TEL CO	97,010	365	265.78	0	0	0.000
FORT ATKINSON TEL CO	142,520	604	235.96	0	0	0.000
GTC OF THE MW-IA	22,662,229	100,500	225.49	0	0	0.000
MID-IOWA TEL CO	236,432	1,002	235.96	0	0	0.000
GOLDFIELD TEL CO	126,946	538	235.96	0	0	0.000
RIVER VALLEY COOP	205,970	843	244.33	0	0	0.000
GRAND MOUND COOP TEL	121,519	515	235.96	0	0	0.000

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IOWA (CONT.)						
GRISWOLD CO-OP TEL	448,796	1,902	235.96	0	0	0.000
HAWKEYE TEL CO	104,777	441	237.59	0	0	0.000
HOSPERS TEL EXCH INC	139,688	592	235.96	0	0	0.000
HUBBARD COOP ASSN	174,138	738	235.96	0	0	0.000
HUXLEY COOP TEL CO	303,445	1,286	235.96	0	0	0.000
IAMO TEL CO - IA	146,823	423	347.10	22,214	8,330	0.005
CONTEL OF IOWA	20,033,632	67,665	296.07	1,309,109	490,916	0.274
INTERSTATE 35 TEL CO	269,101	925	290.92	14,799	5,550	0.003
JEFFERSON TEL CO -IA	682,396	2,892	235.96	0	0	0.000
JORDAN SOLDIER VLY	80,889	252	320.99	8,957	3,359	0.002
KALONA COOP TEL CO	181,479	1,474	123.12	0	0	0.000
KEYSTONE FRMS COOP	267,966	917	292.22	15,446	5,792	0.003
LA PORTE CITY TEL CO	394,997	1,674	235.96	0	0	0.000
LA MOTTE TEL CO	114,677	486	235.96	0	0	0.000
LAUREL TEL CO, INC	85,481	280	305.29	7,095	2,661	0.001
LEHIGH VALLEY COOP	414,862	1,717	241.62	0	0	0.000
LONE ROCK CO-OP TEL	85,638	281	304.76	7,023	2,634	0.001
LOST NATION-ELWOOD	174,257	613	284.27	7,157	2,684	0.001
NORTHEAST IOWA TEL	391,930	1,661	235.96	0	0	0.000
LYNNVILLE COMMUNITY	89,512	307	291.57	5,041	1,890	0.001
MANILLA TEL CO	134,025	568	235.96	0	0	0.000
MARNE & ELK HORN TEL	369,741	1,313	281.60	13,053	4,895	0.003
MARTELLE COOP ASSN	85,168	278	306.36	7,237	2,714	0.002
MASSENA TEL CO	182,650	640	285.39	7,939	2,977	0.002
MECHANICSVILLE TEL	167,060	708	235.96	0	0	0.000
MILES COOP TEL ASSN	152,902	648	235.96	0	0	0.000
MILLER TEL CO - IA	45,251	98	461.74	13,570	5,089	0.003
MINBURN TEL CO	105,474	447	235.96	0	0	0.000
MINERVA VALLEY TEL	191,401	708	270.34	1,856	696	0.000
MODERN COOP TEL CO	258,001	850	303.53	20,566	7,712	0.004
MONTEZUMA MUTUAL TEL	352,996	1,496	235.96	0	0	0.000
MORLEY TEL CO	60,980	155	393.42	13,520	5,070	0.003
MUTUAL TEL CO	134,733	571	235.96	0	0	0.000
MEDIAPOLIS TEL CO	336,715	1,427	235.96	0	0	0.000
MUTUAL TEL CO	669,419	2,837	235.96	0	0	0.000
NORTH CENTRAL TEL CO	435,845	1,455	299.55	31,440	11,790	0.007
NORTH ENGLISH COOP	164,700	698	235.96	0	0	0.000
NORTHERN IOWA TEL CO	653,499	2,347	278.44	18,511	6,942	0.004
NORTHWEST IOWA TEL	515,573	2,185	235.96	0	0	0.000
NORTHWEST TEL COOP	344,412	1,136	303.18	27,228	10,211	0.006
NORWAY RURAL TEL CO	153,846	652	235.96	0	0	0.000

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STUDY AREA	UNSEPARATED REVENUE REQUIREMENT	LOOPS	UNSEPARATED REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FULL EXPENSE ADJUSTMENT	UNIVERSAL SERVICE FUND EXPENSE ADJUSTMENT APPLICABLE TO 1988	PERCENT OF TOTAL
IOWA (CONT.)						
OGDEN TEL CO - IA	363,378	1,540	235.96	0	0	0.000
OLIN TEL CO, INC	123,171	522	235.96	0	0	0.000
ONSLow COOP TEL ASSN	73,114	210	348.16	11,190	4,196	0.002
ORAN MUTUAL TEL CO	77,697	234	332.04	9,998	3,749	0.002
PALO COOP TEL ASSN	94,214	342	275.48	2,039	765	0.000
PALMER MUTUAL TEL CO	91,732	323	284.00	3,714	1,393	0.001
PANORA COOP TEL ASSN	288,579	1,223	235.96	0	0	0.000
PEOPLES TEL CO - IA	185,936	788	235.96	0	0	0.000
POSTVILLE TEL CO	304,388	1,290	235.96	0	0	0.000
PRAIRIEBURG TEL CO	66,803	180	371.13	12,692	4,760	0.003
PRESTON TEL CO	256,960	1,089	235.96	0	0	0.000
RADCLIFFE TEL CO	108,542	460	235.96	0	0	0.000
READLYN TEL CO	158,329	671	235.96	0	0	0.000
RINGSTED TEL CO	105,474	447	235.96	0	0	0.000
ROCKWELL COOP ASSN	357,481	1,224	292.06	20,490	7,684	0.004
ROYAL TEL CO	98,716	380	259.78	0	0	0.000
RUTHUEN TEL EXCHANGE	156,206	662	235.96	0	0	0.000
SAC COUNTY MUTUAL	243,275	1,031	235.96	0	0	0.000
SCHALLER TEL CO	401,861	1,585	253.54	0	0	0.000
SEARSBORO TEL CO	115,953	286	405.43	27,524	10,322	0.006
SHARON TEL CO	208,024	865	240.49	0	0	0.000
SCRANTON TEL CO	120,812	512	235.96	0	0	0.000
SHELL ROCK TEL CO	201,038	852	235.96	0	0	0.000
HEART OF IOWA COOP	581,046	1,852	313.74	57,101	21,413	0.012
SOUTH SLOPE COOP TEL	1,132,844	4,801	235.96	0	0	0.000
SOUTHWEST TEL EXCH	224,054	654	342.59	32,428	12,161	0.007
SPRINGVILLE COOP TEL	240,207	1,018	235.96	0	0	0.000
COOP TEL EXCHANGE	177,873	606	293.52	10,719	4,020	0.002
SWISHER TEL CO	121,519	515	235.96	0	0	0.000
STRATFORD MUTUAL TEL	128,598	545	235.96	0	0	0.000
SULLY TEL ASSOC	212,600	901	235.96	0	0	0.000
SUPERIOR TEL COOP	65,908	176	374.48	12,852	4,820	0.003
TEMPLETON TEL CO	92,664	330	280.80	3,109	1,166	0.001
TERRIL TEL CO	98,716	380	259.78	0	0	0.000
TITONKA TEL CO	134,497	570	235.96	0	0	0.000
UNITED FARMERS TEL	177,731	524	339.18	24,821	9,308	0.005
UTC OF IOWA	14,305,032	59,698	239.62	0	0	0.000
VAN BUREN TEL CO	593,946	2,295	258.80	0	0	0.000
VAN HORNE COOP TEL	105,042	444	236.58	0	0	0.000
VENTURA TEL CO, INC	111,373	472	235.96	0	0	0.000
VILLISCA FARMERS TEL	265,691	1,126	235.96	0	0	0.000

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<b>IOWA (CONT.)</b>						
WALNUT TEL CO, INC	168,475	714	235.96	0	0	0.000
WEBB-DICKENS TEL	121,623	457	266.13	0	0	0.000
WEBSTER-CALHOUN COOP	923,619	2,975	310.46	85,383	32,019	0.018
WELLMAN COOP TEL	217,160	1,093	198.68	0	0	0.000
WEST BRANCH TEL CO	348,041	1,475	235.96	0	0	0.000
WEST IOWA TEL CO	1,030,909	4,369	235.96	0	0	0.000
WEST LIBERTY TEL CO	374,233	1,586	235.96	0	0	0.000
WESTERN IOWA ASSN	765,474	2,831	270.39	7,516	2,819	0.002
WESTSIDE INDEPENDENT	93,318	335	278.56	2,668	1,001	0.001
WILTON TEL CO	377,536	1,600	235.96	0	0	0.000
WINNEBAGO COOP ASSN	1,464,658	5,557	263.57	0	0	0.000
SCHUYLER TEL CO - IA	199,386	845	235.96	0	0	0.000
WOOLSTOCK MUTUAL	82,580	262	315.19	8,325	3,122	0.002
WYOMING MUTUAL TEL	144,879	614	235.96	0	0	0.000
PRAIRIE TEL CO	269,528	928	290.44	14,557	5,459	0.003
ACE TEL ASSN-IA	816,925	2,966	275.43	17,591	6,597	0.004
HILLS TEL CO, INC-IA	396,401	1,534	258.41	0	0	0.000
MABEL COOP TEL-IA	250,862	805	311.63	23,716	8,894	0.005
GRAND RIVER MUT-IA	1,640,917	5,535	296.46	108,488	40,683	0.023
NORTHWESTERN BELL-IA	154,299,399	847,150	182.14	0	0	0.000
<b>STATE TOTAL</b>	<b>262,807,104</b>	<b>1,280,788</b>	<b>205.19</b>	<b>2,339,627</b>	<b>877,360</b>	<b>0.489</b>
<b>KANSAS</b>						
ASSARIA TEL EXCHANGE	133,153	426	312.57	12,810	4,804	0.003
BLUE VALLEY TEL CO	788,989	2,617	301.49	59,850	22,444	0.013
COLUMBUS TELEPHONE	418,121	1,772	235.96	0	0	0.000
COUNCIL GROVE TEL CO	383,907	1,627	235.96	0	0	0.000
CUNNINGHAM TEL CO	599,381	1,523	393.55	133,001	49,875	0.028
ELKHART TEL CO INC	279,703	1,366	204.76	0	0	0.000
GOLDEN BELT TEL ASSN	1,353,791	3,592	376.89	268,801	100,800	0.056
GORHAM TEL CO	116,464	288	404.39	27,492	10,310	0.006
HAVILAND TEL CO	1,003,683	3,543	283.29	39,114	14,668	0.008
H & B COMMUNICATIONS	373,154	960	388.70	80,343	30,129	0.017
HOME TEL CO	466,367	1,194	390.59	101,619	38,107	0.021
J B N TEL CO INC	674,944	2,092	322.63	76,590	28,721	0.016
KANOKLA TEL ASSN-KS	846,390	2,157	392.39	186,490	69,934	0.039
KANSAS STATE TEL CO	1,129,097	5,082	222.18	0	0	0.000
CONTEL OF KANSAS	20,365,862	42,783	476.03	6,382,728	2,393,523	1.334
LA HARPE TEL CO INC	93,318	335	278.56	2,668	1,001	0.001

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<b>KANSAS (CONT.)</b>						
MADISON TEL CO INC	356,807	744	479.58	112,977	42,366	0.024
MOKAN DIAL INC-KS	504,864	1,780	283.63	20,044	7,517	0.004
MOUNDRIDGE TEL CO	911,946	2,042	446.59	259,555	97,333	0.054
MUTUAL TEL CO	103,318	425	243.10	0	0	0.000
PEOPLES MUTUAL TEL	369,243	995	371.10	70,138	26,302	0.015
PIONEER TEL ASSN INC	2,495,041	10,574	235.96	0	0	0.000
CRAW-KAN TEL COOP	3,056,955	11,350	269.34	22,387	8,395	0.005
RAINBOW TEL COOP	451,315	1,780	253.55	0	0	0.000
RURAL TEL SERVICE CO	3,020,925	6,321	477.92	951,980	356,993	0.199
S & T TEL COOP ASSN	1,118,251	1,600	698.91	506,157	189,809	0.106
S & A TEL CO INC	203,672	680	299.52	14,680	5,505	0.003
S. CENTRAL TEL - KS	298,840	1,126	265.40	0	0	0.000
SOUTHERN KANSAS TEL	956,951	3,282	291.58	53,918	20,219	0.011
SUNFLOWER TEL CO	1,908,918	3,914	487.72	618,239	231,840	0.129
TRI-COUNTY TEL ASSN	914,426	3,197	286.03	40,988	15,371	0.009
TWIN VALLEY TEL INC	979,545	2,109	464.46	296,337	111,126	0.062
UNITED TEL ASSN	1,227,300	4,247	288.98	62,594	23,473	0.013
UTC OF KANSAS	17,706,282	61,793	286.54	812,727	304,773	0.170
WAMEGO TEL CO INC	912,783	3,605	253.20	0	0	0.000
WHEAT STATE TEL	751,593	1,836	409.36	182,105	68,289	0.038
WILSON TEL CO INC	735,091	2,130	345.11	109,104	40,914	0.023
ZENDA TEL COMPANY	120,065	238	504.47	40,583	15,219	0.008
TOTAH TELEPHONE CO	870,076	1,317	660.65	378,839	142,065	0.079
SOUTHWESTERN BELL-KS	220,620,034	984,123	224.18	0	0	0.000
<b>STATE TOTAL</b>	<b>289,620,562</b>	<b>1,182,565</b>	<b>244.91</b>	<b>11,924,858</b>	<b>4,471,822</b>	<b>2.493</b>
<b>KENTUCKY</b>						
BALLARD RURAL COOP	1,129,776	4,788	235.96	0	0	0.000
BRANDENBURG TEL CO	3,713,067	15,736	235.96	0	0	0.000
DUO COUNTY TEL COOP	1,785,745	7,568	235.96	0	0	0.000
ALLTEL KENTUCKY	3,061,581	12,975	235.96	0	0	0.000
FOOTHILLS RURAL COOP	2,358,420	9,995	235.96	0	0	0.000
GTC OF THE SO-KY	80,468,865	280,874	286.49	566,930	212,599	0.119
HAROLD TEL CO	998,111	4,230	235.96	0	0	0.000
CONTEL OF KENTUCKY	21,341,517	49,728	429.16	5,670,778	2,126,542	1.185
LESLIE COUNTY TEL CO	1,316,421	5,579	235.96	0	0	0.000
LEWISPORT TEL CO	230,061	975	235.96	0	0	0.000
LOGAN CTY RURAL COOP	1,115,383	4,727	235.96	0	0	0.000
MOUNTAIN RURAL COOP	2,188,529	9,275	235.96	0	0	0.000

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<b>KENTUCKY (CONT.)</b>						
PEOPLES RURAL COOP	1,132,372	4,799	235.96	0	0	0.000
SALEM TEL CO	376,356	1,595	235.96	0	0	0.000
SOUTH CENTRAL RURAL	4,192,773	17,769	235.96	0	0	0.000
THACKER/GRIGSBY TEL	1,288,814	5,462	235.96	0	0	0.000
WEST KENTUCKY RURAL	2,960,118	12,545	235.96	0	0	0.000
CINCINNATI BELL-KY	28,780,289	124,947	230.34	0	0	0.000
SO CENTRAL BELL-KY	222,388,758	817,517	272.03	467,987	175,495	0.098
<b>STATE TOTAL</b>	<b>380,826,956</b>	<b>1,391,084</b>	<b>273.76</b>	<b>6,705,695</b>	<b>2,514,636</b>	<b>1.402</b>
<b>LOUISIANA</b>						
ATHENS TEL CO	178,021	279	638.07	75,530	28,324	0.016
CENTRAL LOUISIANA	5,193,569	12,121	428.48	1,376,047	516,018	0.288
COASTAL TEL & ELECTR	2,612,853	9,123	286.40	119,159	44,685	0.025
CAMERON TEL CO - LA	3,162,622	5,513	573.67	1,226,192	459,822	0.256
CAMPTI-PLEASANT HILL	414,213	1,710	242.23	0	0	0.000
CHATHAM TEL CO	404,214	1,203	336.01	54,505	20,439	0.011
DEL CAMBRE TEL CO	230,061	975	235.96	0	0	0.000
EAST ASCENSION TEL	6,055,892	19,182	315.71	615,990	230,996	0.129
ELIZABETH TEL CO	1,659,133	2,262	733.48	774,228	290,336	0.162
CADDOAN TEL CO	2,516,281	7,669	328.11	308,086	115,532	0.064
KAPLAN TEL CO	1,032,325	4,375	235.96	0	0	0.000
LAFOURCHE TEL CO	4,182,740	10,785	387.83	895,569	335,838	0.187
EVANGELINE TEL CO	8,349,150	24,561	339.94	1,175,549	440,831	0.246
NORTHEAST LOUISIANA	474,375	794	597.45	190,761	71,535	0.040
NORTHWEST LOUISIANA	320,108	980	326.64	38,433	14,412	0.008
PLAIN DEALING TEL CO	565,124	1,448	390.28	122,900	46,088	0.026
RESERVE TEL CO	874,468	3,706	235.96	0	0	0.000
RINGGOLD TEL CO	331,196	1,465	226.07	0	0	0.000
CENTURY TEL CO	816,033	1,346	606.27	332,284	124,607	0.069
STAR TEL CO	975,459	4,134	235.96	0	0	0.000
LOUISIANA WESTERN	1,764,953	2,815	626.98	738,658	276,997	0.154
UTC OF LOUISIANA	1,400,495	2,217	631.71	589,607	221,103	0.123
SO CENTRAL BELL-LA	497,355,831	1,673,456	297.20	5,170,058	1,938,772	1.081
<b>STATE TOTAL</b>	<b>540,869,118</b>	<b>1,792,119</b>	<b>301.80</b>	<b>13,803,556</b>	<b>5,176,334</b>	<b>2.885</b>
<b>MAINE</b>						
BRYANT POND TEL CO	103,412	426	242.75	0	0	0.000



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<b>MAINE (CONT.)</b>						
LINCOLNVILLE TEL CO	325,044	1,097	296.30	21,387	8,020	0.004
CHINA TEL CORP	587,959	2,185	269.09	3,954	1,483	0.001
COBOSSEECONTEE TEL	132,845	563	235.96	0	0	0.000
ISLAND TEL CO	20,113	32	628.54	8,434	3,163	0.002
HAMPDEN TEL CO	541,888	1,809	299.55	39,090	14,659	0.008
HARTLAND & ST ALBANS	789,054	1,769	446.05	224,138	84,052	0.047
CONTEL OF MAINE	11,798,164	29,530	399.53	2,711,250	1,016,719	0.567
COMMUNITY SERVICE	1,511,796	6,407	235.96	0	0	0.000
OXFORD COUNTY TEL	628,505	2,644	237.71	0	0	0.000
PINE TREE TEL & TEL	867,153	3,675	235.96	0	0	0.000
SACO RIVER TEL & TEL	1,070,786	4,538	235.96	0	0	0.000
SOMERSET TEL CO	1,898,667	7,391	256.89	0	0	0.000
STANDISH TEL CO	1,313,182	4,789	274.21	24,605	9,227	0.005
UNION RIVER TEL CO	310,313	660	470.17	95,563	35,836	0.020
UNITY TEL CO	908,897	2,782	326.71	109,229	40,961	0.023
WARREN TEL CO	200,297	983	203.76	0	0	0.000
WEST PENOBSCOT TEL	407,409	1,422	286.50	18,665	6,999	0.004
NEW ENGLAND TEL-ME	129,342,062	486,965	265.61	0	0	0.000
<b>STATE TOTAL</b>	<b>152,757,546</b>	<b>559,667</b>	<b>272.94</b>	<b>3,256,315</b>	<b>1,221,118</b>	<b>0.681</b>
<b>MARYLAND</b>						
ARMSTRONG TEL OF MD	886,717	3,604	246.04	0	0	0.000
C & P TEL CO OF MD	435,639,876	2,416,196	180.30	0	0	0.000
<b>STATE TOTAL</b>	<b>436,526,593</b>	<b>2,419,800</b>	<b>180.40</b>	<b>0</b>	<b>0</b>	<b>0.000</b>
<b>MASSACHUSETTS</b>						
GRANBY TEL & TEL -MA	496,224	2,103	235.96	0	0	0.000
RICHMOND TEL CO	195,375	828	235.96	0	0	0.000
NEW ENGLAND TEL-MA	508,853,289	3,259,555	156.11	0	0	0.000
<b>STATE TOTAL</b>	<b>509,544,887</b>	<b>3,262,486</b>	<b>156.18</b>	<b>0</b>	<b>0</b>	<b>0.000</b>
<b>MICHIGAN</b>						
ALLENDALE TEL CO	747,521	3,168	235.96	0	0	0.000
AU GRES TEL CO	519,584	2,202	235.96	0	0	0.000
AUGUSTA TEL CO	339,546	1,439	235.96	0	0	0.000

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MICHIGAN (CONT.)						
BARAGA TEL CO	648,182	2,747	235.96	0	0	0.000
BARRY COUNTY TEL CO	1,237,846	5,246	235.96	0	0	0.000
ISLAND TEL CO	172,665	571	302.39	13,392	5,022	0.003
BLANCHARD TEL ASSN	283,411	930	304.74	23,233	8,712	0.005
BLOOMINGDALE TEL CO	457,078	1,447	315.88	46,627	17,485	0.010
CHIPPewa COUNTY TEL	250,225	834	300.03	18,282	6,856	0.004
ALLTEL MICHIGAN INC.	7,908,308	34,944	226.31	0	0	0.000
C, C & S TELCO - MI	2,625,072	15,957	164.51	0	0	0.000
CARR TEL CO	296,194	1,188	249.32	0	0	0.000
CENTRAL TEL CO	3,518,636	14,912	235.96	0	0	0.000
CHATHAM TEL CO - MI	531,546	2,114	251.44	0	0	0.000
CLAYTON TEL CO	198,242	541	366.44	36,244	13,592	0.008
CLIMAX TEL CO	239,499	1,015	235.96	0	0	0.000
DEERFIELD FARMERS	484,190	2,052	235.96	0	0	0.000
DRENTHE TEL CO	113,025	479	235.96	0	0	0.000
FARMERS MUTUAL TEL	92,796	331	280.35	3,021	1,133	0.001
GTC OF MICHIGAN	117,125,472	445,736	262.77	0	0	0.000
HADLEY TEL CO	274,657	1,164	235.96	0	0	0.000
HICKORY TEL CO	240,289	1,119	214.74	0	0	0.000
CENTURY OF MICHIGAN	10,978,945	32,714	335.60	1,473,485	552,557	0.308
KALEVA TEL CO	296,372	1,142	259.52	0	0	0.000
ACE TEL OF MICHIGAN	1,325,364	2,942	450.50	382,580	143,468	0.080
KINGSLEY TEL CO	402,312	1,705	235.96	0	0	0.000
LENNON TEL CO	364,322	1,544	235.96	0	0	0.000
MIDWAY TEL CO	324,436	713	455.03	95,141	35,678	0.020
HLAWATHA TEL CO	1,005,585	2,994	335.87	135,379	50,767	0.028
OGDEN TEL CO	81,404	255	319.23	8,772	3,290	0.002
ONTONAGON COUNTY TEL	799,814	3,653	218.95	0	0	0.000
PENINSULA TEL CO -MI	209,297	887	235.96	0	0	0.000
PIGEON TEL CO	741,127	2,395	309.45	67,165	25,187	0.014
SAND CREEK TEL CO	192,543	816	235.96	0	0	0.000
SHLAWASSEE TEL CO	869,513	3,685	235.96	0	0	0.000
SPRINGPORT TEL CO	392,952	1,482	265.15	0	0	0.000
UPPER PENINSULA TEL	1,179,938	2,766	426.59	310,091	116,284	0.065
WALDRON TEL CO	145,145	542	267.79	522	196	0.000
WESTPHALIA TEL CO	205,439	739	278.00	5,617	2,106	0.001
WINN TEL CO	112,081	475	235.96	0	0	0.000
WOLVERINE TEL CO	1,262,899	6,777	186.35	0	0	0.000
MICHIGAN BELL TEL CO	732,006,633	3,795,775	192.85	0	0	0.000
STATE TOTAL	891,200,104	4,404,137	202.36	2,619,551	982,332	0.548

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STUDY AREA	UNSEPARATED REVENUE REQUIREMENT	LOOPS	UNSEPARATED REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FULL EXPENSE ADJUSTMENT	UNIVERSAL SERVICE FUND EXPENSE ADJUSTMENT APPLICABLE TO 1988	PERCENT OF TOTAL
<b>MINNESOTA</b>						
CONTEL OF MINNESOTA	27,221,671	88,448	307.77	2,383,843	893,941	0.498
GTC OF THE MW-MN	689,467	3,235	213.13	0	0	0.000
WINNEBAGO COOP ASSN	270,089	733	368.47	50,224	18,834	0.010
ACE TEL ASSN-MN	1,599,619	8,264	193.56	0	0	0.000
ALBANY MUTUAL ASSN	564,416	2,392	235.96	0	0	0.000
ARVIG TEL CO	1,777,829	8,309	213.96	0	0	0.000
CITY OF BARNESVILLE	242,095	1,026	235.96	0	0	0.000
BENTON COOP TEL CO	641,811	2,720	235.96	0	0	0.000
BLACKDUCK TEL CO	286,933	985	291.30	16,002	6,001	0.003
BLUE EARTH VALLEY	1,501,885	6,365	235.96	0	0	0.000
BRIDGEMATER TEL CO	1,080,521	3,846	280.95	36,609	13,728	0.008
CALLAWAY TEL CO	72,109	205	351.75	11,475	4,303	0.002
CENTEL OF MN	12,981,722	65,015	199.67	0	0	0.000
CLARA CITY TEL EXCH	529,314	1,447	365.80	96,248	36,093	0.020
CLEMENTS TEL CO	62,190	160	388.69	13,389	5,021	0.003
CONSOLIDATED TEL CO	1,119,588	5,662	197.74	0	0	0.000
ARROWHEAD COMM CORP	224,372	531	422.55	57,920	21,720	0.012
MID-COMMUNICATIONS	1,666,585	7,063	235.96	0	0	0.000
DANUBE TEL CO	104,239	435	239.63	0	0	0.000
DEER RIVER TEL CO	446,711	1,588	281.30	15,477	5,804	0.003
DELAVAN TEL CO	89,937	310	290.12	4,798	1,799	0.001
DURNELL TEL CO	82,912	264	314.06	8,194	3,073	0.002
EAGLE VALLEY TEL CO	167,738	624	268.81	1,015	381	0.000
EASTON TEL CO	78,243	237	330.14	9,833	3,687	0.002
EAST OTTER TAIL TEL	3,026,417	12,200	248.07	0	0	0.000
ECKLES TEL CO	590,608	2,503	235.96	0	0	0.000
EMILY COOP TEL CO	194,645	942	206.63	0	0	0.000
FARMERS MUTUAL TEL	343,171	1,128	304.23	27,806	10,427	0.006
FEDERATED TEL COOP	591,586	1,917	308.60	52,701	19,763	0.011
FELTON TEL CO. INC.	232,536	699	332.67	30,152	11,307	0.006
GARDEN VALLEY TEL CO	3,229,453	12,551	257.31	0	0	0.000
GARDONVILLE COOP TEL	460,830	1,953	235.96	0	0	0.000
GRANADA TEL CO	67,918	256	265.30	0	0	0.000
HALSTAD TEL CO	262,702	1,454	180.68	0	0	0.000
HANCOCK TEL CO - MN	155,734	660	235.96	0	0	0.000
HARMONY TEL CO	183,105	776	235.96	0	0	0.000
HILLS TEL CO, INC	162,807	510	319.23	17,544	6,579	0.004
HORMAN TEL CO	1,309,814	5,551	235.96	0	0	0.000
HOME TEL CO - MN	378,952	1,606	235.96	0	0	0.000
HUTCHINSON TEL CO	1,600,517	6,783	235.96	0	0	0.000
JOHNSON TEL CO	735,167	1,257	584.86	290,129	108,798	0.061

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MINNESOTA (CONT.)						
KASSON & MANTORVILLE	525,247	2,226	235.96	0	0	0.000
K M P TEL CO	327,277	1,387	235.96	0	0	0.000
LAKEDALE TEL CO	1,877,779	8,912	210.70	0	0	0.000
LISMORE COOP TEL CO	92,001	325	283.08	3,543	1,329	0.001
LONSDALE TEL CO	258,612	1,096	235.96	0	0	0.000
LOWRY TEL CO	156,441	663	235.96	0	0	0.000
MABLE COOP TEL - MN	191,157	706	270.76	2,044	767	0.000
MADELIA TEL CO	263,830	1,493	176.71	0	0	0.000
MANCHESTER-HARTLAND	169,384	550	307.97	14,895	5,586	0.003
MANKATO CITIZENS TEL	5,747,986	24,360	235.96	0	0	0.000
MELROSE TEL CO	1,297,780	5,500	235.96	0	0	0.000
MIDWEST TEL CO	519,112	2,200	235.96	0	0	0.000
MID STATE TEL CO	1,066,364	5,186	205.62	0	0	0.000
MINNESOTA LAKE TEL	118,452	502	235.96	0	0	0.000
MINNESOTA VALLEY TEL	270,094	932	289.80	14,232	5,337	0.003
CANNON VLY TELECOM	419,649	1,770	237.09	0	0	0.000
NEW ULM TELECOM, INC	1,605,214	7,632	210.33	0	0	0.000
NORMAN COUNTY TEL CO	1,046,211	3,558	294.04	64,141	24,053	0.013
NORTHLAND TEL CO	143,324	584	245.42	0	0	0.000
OSAKIS TEL CO	306,748	1,300	235.96	0	0	0.000
PARK REGION MUTUAL	627,683	2,635	238.21	0	0	0.000
PAUL BUNYAN RURAL	1,664,720	4,847	343.45	243,047	91,143	0.051
PEOPLES TEL CO - MN	309,862	1,274	243.22	0	0	0.000
PINE ISLAND TEL CO	499,527	2,117	235.96	0	0	0.000
UTC OF MINNESOTA	24,620,208	86,373	285.05	1,052,362	394,636	0.220
REDWOOD COUNTY TEL	949,503	4,024	235.96	0	0	0.000
ROCK DELL TEL CO	97,244	367	264.97	0	0	0.000
ROTHSAY TEL CO, INC	111,609	473	235.96	0	0	0.000
RUNESTONE TEL ASSN	884,534	3,385	261.31	0	0	0.000
SACRED HEART TEL CO	122,699	520	235.96	0	0	0.000
SANBORN TELEPHONE CO	105,042	444	236.58	0	0	0.000
SCOTT RICE TEL CO	1,644,641	6,970	235.96	0	0	0.000
SHERBURNE CTY RURAL	1,097,031	5,000	219.41	0	0	0.000
SLEEPY EYE TEL CO	1,254,190	5,081	246.84	0	0	0.000
SPRING GROVE COOP	239,499	1,015	235.96	0	0	0.000
STARBUCK TEL CO	383,435	1,271	301.68	29,224	10,959	0.006
TWIN VALLEY-ULEN TEL	647,336	2,721	237.90	0	0	0.000
UPSALA COOP TEL ASSN	189,712	804	235.96	0	0	0.000
VALLEY TEL CO - MN	152,194	645	235.96	0	0	0.000
CROSSLAKE TEL CO	210,519	1,245	169.09	0	0	0.000
NORTHERN TEL CO - MN	17,654	27	653.86	7,629	2,861	0.002

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<b>MINNESOTA (CONT.)</b>						
WEST CENTRAL TEL	696,082	2,950	235.96	0	0	0.000
WESTERN TEL CO	377,536	1,600	235.96	0	0	0.000
WIKSTROM TEL CO, INC	1,286,743	4,971	258.85	0	0	0.000
WINSTED TEL CO	283,860	1,203	235.96	0	0	0.000
WINTHROP TEL CO	229,117	971	235.96	0	0	0.000
WOODSTOCK TEL CO	394,268	1,202	328.01	48,209	18,078	0.010
WOLVERTON TEL CO	65,001	172	377.91	13,002	4,876	0.003
ZUMBROTA TEL CO	375,412	1,591	235.96	0	0	0.000
DEUEL TEL COOP ASSN	336,715	1,427	235.96	0	0	0.000
NORTHWESTERN BELL-MN	308,003,658	1,609,810	191.33	0	0	0.000
<b>STATE TOTAL</b>	<b>431,307,856</b>	<b>2,090,627</b>	<b>206.31</b>	<b>4,615,687</b>	<b>1,730,883</b>	<b>0.965</b>
<b>MISSISSIPPI</b>						
BAY SPRINGS TEL CO	3,464,856	7,832	442.40	970,901	364,088	0.203
BRUCE TEL CO - MS	576,686	2,444	235.96	0	0	0.000
CALHOUN CITY TEL CO	684,756	2,902	235.96	0	0	0.000
MYRTLE TEL CO	117,272	497	235.96	0	0	0.000
DECATUR TEL CO -MS	298,613	1,455	205.23	0	0	0.000
DELTA TEL CO	708,293	2,779	254.87	0	0	0.000
ALLTEL MISSISSIPPI	1,772,532	7,512	235.96	0	0	0.000
FRANKLIN TEL CO - MS	2,249,662	5,859	383.97	469,560	176,085	0.098
FULTON TEL CO	1,418,356	6,011	235.96	0	0	0.000
GEORGETOWN TEL CO	61,224	156	392.46	13,495	5,061	0.003
GLEN ALLAN TEL CO	91,596	322	284.46	3,799	1,425	0.001
HOME TEL CO-OLIVE BR	2,579,495	5,425	475.48	807,109	302,666	0.169
HUGHES TEL CO	1,781,195	4,821	369.47	333,943	125,229	0.070
MID-SOUTH TEL CO	933,458	3,956	235.96	0	0	0.000
MOUND BAYOU TEL & CO	178,622	757	235.96	0	0	0.000
NOXAPATER TEL CO	269,660	916	294.39	16,721	6,270	0.003
SHERWOOD TEL CO	90,638	315	287.74	4,388	1,646	0.001
SLEDGE TEL CO	109,888	390	281.76	3,917	1,469	0.001
SMITHVILLE TEL CO	190,184	806	235.96	0	0	0.000
SO CENTRAL BELL-MS	282,134,703	826,170	341.50	6,212,344	2,329,629	1.299
<b>STATE TOTAL</b>	<b>299,711,688</b>	<b>881,325</b>	<b>340.07</b>	<b>8,836,177</b>	<b>3,313,566</b>	<b>1.847</b>
<b>MISSOURI</b>						
GTC OF THE MW-MO	24,368,444	90,939	267.96	97,798	36,674	0.020

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MISSOURI (CONT.)						
IAMO TEL CO - MO	340,034	1,108	306.89	29,228	10,961	0.006
CRAW-KAN TEL COOP-MO	542,021	1,877	288.77	27,407	10,278	0.006
MOKAN DIAL INC-MO	175,535	542	323.87	20,279	7,605	0.004
CONTINENTAL SYS. -MO	8,518,392	36,101	235.96	0	0	0.000
BOURBEUSE TEL	352,129	1,481	237.76	0	0	0.000
ALMA TEL CO	93,060	333	279.46	2,847	1,068	0.001
CHARITON VALLEY TEL	1,776,102	6,833	259.93	0	0	0.000
CITIZENS TEL CO - MO	787,604	3,364	234.13	0	0	0.000
EASTERN MISSOURI TEL	1,011,797	2,483	407.49	242,796	91,049	0.051
ELLINGTON TEL CO	389,025	1,173	331.65	49,821	18,683	0.010
FARBER TEL CO	74,685	218	342.59	10,809	4,053	0.002
FIDELITY TEL CO	2,267,252	9,180	246.98	0	0	0.000
ALLTEL MISSOURI	6,416,495	18,765	341.94	922,532	345,950	0.193
GOODMAN TEL CO	389,517	1,275	305.50	32,482	12,181	0.007
GRANBY TEL CO - MO	440,301	1,866	235.96	0	0	0.000
GRAND RIVER MUT-MO	3,119,577	12,278	254.08	0	0	0.000
GREEN HILLS TEL CORP	876,387	2,695	325.19	103,150	38,681	0.022
CHOCTAW TELEPHONE CO	98,271	376	261.36	0	0	0.000
KLM TEL CO	338,613	1,099	308.11	29,863	11,199	0.006
KINGDOM TELEPHONE CO	916,483	2,403	381.39	187,934	70,475	0.039
MISSOURI TEL CO	4,897,379	14,897	328.75	604,653	226,745	0.126
LE-RU TELEPHONE CO	594,397	904	657.52	257,916	96,719	0.054
MCDONALD COUNTY TEL	427,088	1,810	235.96	0	0	0.000
MARK TWAIN RURAL TEL	1,182,357	3,829	308.79	105,737	39,651	0.022
MID-MISSOURI TEL CO	1,120,691	3,269	342.82	162,581	60,968	0.034
MILLER TEL CO - MO	229,079	857	267.30	553	207	0.000
CONTEL OF MISSOURI	57,472,594	121,017	474.91	17,952,680	6,732,255	3.753
NEW FLORENCE TEL CO	93,448	336	278.12	2,580	968	0.001
NEW LONDON TEL CO	133,317	565	235.96	0	0	0.000
HOLWAY TEL CO	259,213	600	432.02	69,708	26,141	0.015
NE MISSOURI RURAL	1,755,112	3,290	533.47	632,563	237,211	0.132
LATHROP TEL COMPANY	221,927	1,014	218.86	0	0	0.000
ORCHARD FARM TEL CO	262,601	634	414.20	65,185	24,444	0.014
OREGON FARMERS MUT	234,544	994	235.96	0	0	0.000
PEACE VALLEY TEL CO	77,879	235	331.40	9,943	3,729	0.002
ROCK PORT TEL CO	340,962	1,445	235.96	0	0	0.000
SENECA TEL CO	642,421	2,152	298.52	45,061	16,898	0.009
STEELVILLE TEL EXCH	738,791	3,131	235.96	0	0	0.000
STOUTLAND TEL CO	677,637	824	822.37	336,969	126,363	0.070
UTC OF MISSOURI	45,944,918	155,093	296.24	3,017,710	1,131,641	0.631
WEBSTER COUNTY TEL	1,922,369	3,629	529.72	687,535	257,826	0.144

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<b>MISSOURI (CONT.)</b>						
WHEELING TEL CO	133,907	314	426.46	35,171	13,189	0.007
SOUTHWESTERN BELL-MO	389,543,437	1,840,935	211.60	0	0	0.000
STATE TOTAL	562,197,793	2,358,163	238.40	25,743,491	9,653,809	5.381
<b>MONTANA</b>						
BLACKFOOT TEL COOP	2,164,501	4,425	489.15	703,700	263,888	0.147
HOT SPRINGS TEL CO	81,061	253	320.40	8,895	3,336	0.002
INTERBEL TEL COOP	415,620	830	500.75	139,214	52,205	0.029
LINCOLN TEL CO INC	347,074	681	509.65	118,768	44,538	0.025
MID-RIVERS TEL COOP	3,805,505	6,108	623.04	1,584,695	594,261	0.331
NEMONT TEL COOP-MT	1,323,070	2,194	603.04	536,314	201,118	0.112
NORTHERN TEL COOP	796,044	1,347	590.98	317,085	118,907	0.066
NW TEL SYSTEMS, INC.	7,782,531	26,551	293.12	462,768	173,538	0.097
PROJECT TEL CO	1,016,181	2,430	418.18	257,096	96,411	0.054
RANGE TEL COOP-MT	1,935,982	2,883	671.52	852,808	319,803	0.178
RONAN TEL CO	434,638	1,842	235.96	0	0	0.000
SOUTHERN MONTANA TEL	490,539	636	771.29	235,722	88,396	0.049
3-RIVERS TEL COOP	2,856,895	7,969	358.50	486,435	182,413	0.102
TRIANGLE TEL COOP	3,392,905	8,007	423.74	880,537	330,201	0.184
VALLEY RURAL TEL	585,927	682	859.13	297,702	111,638	0.062
GTC OF THE NW - MT	2,031,908	5,622	361.42	355,484	133,307	0.074
MOUNTAIN BELL-MT	90,897,337	287,191	316.50	1,441,540	540,578	0.301
STATE TOTAL	120,357,719	359,651	334.65	8,678,763	3,254,536	1.814
<b>NEBRASKA</b>						
GTC OF THE MW-NE	10,389,434	41,001	253.39	0	0	0.000
ARAPAHOE TEL CO	415,301	1,037	400.48	95,949	35,981	0.020
ARLINGTON TEL CO	397,690	906	438.95	109,968	41,238	0.023
BLAIR TEL CO	1,257,730	5,117	245.79	0	0	0.000
THREE RIVER TELCO	494,697	1,206	410.20	120,377	45,141	0.025
CAMBRIDGE TEL CO -NE	265,219	1,124	235.96	0	0	0.000
CONSOLIDATED TELCO	474,978	1,426	333.08	61,893	23,210	0.013
CLARKS TEL CO	288,394	954	302.30	22,320	8,370	0.005
CONSOLIDATED TEL CO	919,050	2,736	335.91	123,784	46,419	0.026
COZAD TEL CO	595,562	2,517	236.62	0	0	0.000
CRAIG TEL CO	87,169	291	299.55	6,288	2,358	0.001
CURTIS TEL CO	320,147	783	408.87	77,374	29,015	0.016

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<b>NEBRASKA (CONT.)</b>						
DALTON TEL CO, INC	722,565	1,265	571.20	279,015	104,631	0.058
DILLER TEL CO	277,173	895	309.69	25,238	9,464	0.005
EASTERN NEBRASKA TEL	914,966	2,428	376.84	181,604	68,102	0.038
ELSIE MUTUAL TEL CO	68,770	189	363.86	12,296	4,611	0.003
EUSTIS TEL EXCHANGE	104,421	437	238.95	0	0	0.000
GLENWOOD TEL MEMBER	675,394	2,501	270.05	6,087	2,283	0.001
HAMILTON TEL CO	1,081,877	4,585	235.96	0	0	0.000
HARTINGTON TEL CO	307,692	1,304	235.96	0	0	0.000
HARTMAN TEL EXCH INC	313,106	451	694.25	141,096	52,911	0.029
HEMINGFORD COOP TEL	287,151	829	346.38	43,148	16,181	0.009
HENDERSON CO-OP TEL	210,712	893	235.96	0	0	0.000
HERSHEY COOP TEL CO	150,810	649	232.37	0	0	0.000
HOME TEL CO OF NE	182,788	641	285.16	7,855	2,946	0.002
HOOPER TEL CO	261,444	1,108	235.96	0	0	0.000
K & M TEL CO, INC	171,101	649	263.64	0	0	0.000
KEYSTONE-ARTHUR TEL	283,174	501	565.22	108,256	40,596	0.023
LINCOLN TEL & TEL CO	40,726,718	215,851	188.68	0	0	0.000
NEBRASKA CENTRAL TEL	1,055,048	3,451	305.72	88,412	33,155	0.018
NORTHEAST NEBRASKA	838,191	3,884	215.81	0	0	0.000
GREAT PLAINS COMMUN	7,628,391	24,489	311.50	719,399	269,775	0.150
PETERSBURG TEL CO	216,101	429	503.73	72,914	27,343	0.015
PIERCE TEL CO	372,305	1,621	229.68	0	0	0.000
PLAINVIEW TEL CO	266,635	1,130	235.96	0	0	0.000
ROCK COUNTY TEL CO	694,022	1,011	686.47	310,395	116,398	0.065
RODEO TEL, INC	649,700	2,416	268.92	4,105	1,539	0.001
SODTOWN TEL CO	37,972	76	499.63	12,683	4,756	0.003
SE NEBRASKA TEL CO	1,839,140	3,608	509.74	629,491	236,059	0.132
STANTON TEL CO, INC	456,412	984	463.83	137,797	51,674	0.029
UTC OF THE WEST-NE	6,092,284	22,757	267.71	20,775	7,791	0.004
WAUNETA TEL CO	513,922	618	831.59	257,000	96,375	0.054
BENKELMAN TEL CO	611,509	1,176	519.99	214,218	80,332	0.045
NORTHWESTERN BELL-NE	71,960,049	419,122	171.69	0	0	0.000
<b>STATE TOTAL</b>	<b>155,876,911</b>	<b>781,046</b>	<b>199.57</b>	<b>3,889,737</b>	<b>1,458,651</b>	<b>0.813</b>
<b>NEVADA</b>						
FILER MUTUAL TEL -NV	84,373	273	309.06	7,586	2,845	0.002
GEM STATE UTIL-NV	249,681	267	935.14	131,770	49,414	0.028
RURAL TEL CO - NV	35,234	75	469.79	10,838	4,064	0.002
BEEHIVE TEL CO - NV	15,056	22	684.38	6,719	2,520	0.001



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<b>NEVADA (CONT.)</b>						
CONTEL OF CALIF-NV	6,247,808	15,334	407.45	1,498,950	562,106	0.313
CP NATIONAL-NV	3,775,224	8,980	420.40	965,043	361,891	0.202
CENTEL OF NV	51,530,163	326,396	157.88	0	0	0.000
CHURCHILL COUNTY TEL	1,939,789	7,149	271.34	23,394	8,773	0.005
LINCOLN CTY TEL SYS	401,443	1,397	287.36	19,118	7,169	0.004
MOAPA VALLEY TEL CO.	470,083	1,675	280.65	15,617	5,856	0.003
NEVADA TEL-TELEGRAPH	660,419	2,247	293.91	40,317	15,119	0.008
RIO VIRGIN TEL CO	316,113	825	383.17	65,623	24,609	0.014
NEVADA BELL	55,810,281	179,918	310.20	5,133,316	1,924,994	1.073
<b>STATE TOTAL</b>	<b>121,535,669</b>	<b>544,558</b>	<b>223.18</b>	<b>7,918,291</b>	<b>2,969,359</b>	<b>1.655</b>
<b>NEW HAMPSHIRE</b>						
BRETTON WOODS TEL CO	50,287	90	558.74	19,009	7,128	0.004
GRANITE STATE TEL CO	1,774,742	5,456	325.28	209,147	78,430	0.044
CHICHESTER TEL CO	214,016	907	235.96	0	0	0.000
CONTEL OF NH	2,484,848	8,211	302.62	193,815	72,681	0.041
DIXVILLE TEL CO	45,873	100	458.73	13,621	5,108	0.003
DUNBARTON TEL CO	187,116	793	235.96	0	0	0.000
KEARSARGE TEL CO	1,164,049	4,203	276.96	29,107	10,915	0.006
MERIDEN TEL CO	84,473	380	222.30	0	0	0.000
MERRIMAK COUNTY TEL	1,155,495	4,781	241.68	0	0	0.000
UNION TEL CO	755,630	4,429	170.61	0	0	0.000
WILTON TEL CO - NH	538,470	1,987	271.00	6,063	2,274	0.001
NEW ENGLAND TEL-NH	133,318,539	511,442	260.67	0	0	0.000
<b>STATE TOTAL</b>	<b>141,773,537</b>	<b>542,779</b>	<b>261.20</b>	<b>470,762</b>	<b>176,536</b>	<b>0.098</b>
<b>NEW JERSEY</b>						
WARWICK VALLEY-NJ	737,455	6,030	122.30	0	0	0.000
UNITED-SUSSEX TEL CO	2,840,978	9,442	300.89	212,255	79,596	0.044
HILLSBOROUGH & MONT	2,604,655	13,125	198.45	0	0	0.000
NEW JERSEY TEL CO	11,660,328	51,364	227.01	0	0	0.000
UTC OF NEW JERSEY	7,487,824	33,716	222.09	0	0	0.000
WEST JERSEY TEL CO	2,407,307	11,111	216.66	0	0	0.000
NEW JERSEY BELL	778,521,351	4,244,897	183.40	0	0	0.000
<b>STATE TOTAL</b>	<b>806,259,897</b>	<b>4,369,685</b>	<b>184.51</b>	<b>212,255</b>	<b>79,596</b>	<b>0.044</b>

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<b>NEW MEXICO</b>						
DELL TEL CO-OP - NM	438,164	237	1,848.80	279,367	104,763	0.058
GTC OF THE SW - NM	10,691,866	36,090	296.26	702,687	263,508	0.147
VALLEY TEL COOP - NM	766,081	1,055	726.14	355,293	133,235	0.074
CONTEL OF WEST - NM	13,643,904	25,907	526.65	4,848,583	1,818,219	1.013
BACA VALLEY TEL CO	677,436	554	1,222.81	392,937	147,351	0.082
ENMR TEL COOP INC-NM	7,830,166	8,490	922.28	4,108,106	1,540,540	0.859
LA JICARITA RURAL	903,168	1,399	645.58	386,614	144,980	0.081
LEACO RURAL TEL COOP	698,504	795	878.62	358,649	134,493	0.075
WESTERN NEW MEXICO	5,991,302	3,844	1,558.61	3,694,558	1,385,459	0.772
PENASCO VALLEY TEL	2,125,203	1,935	1,098.30	1,191,748	446,906	0.249
ROOSEVELT CNTY RURAL	808,132	1,466	551.25	301,414	113,030	0.063
UNIVERSAL TEL OF SW	909,645	2,849	319.29	98,119	36,795	0.021
NAVAJO COMMUN - NM	3,334,101	2,968	1,123.35	1,883,725	706,397	0.394
MOUNTAIN BELL-NM	127,168,502	513,949	247.43	0	0	0.000
<b>STATE TOTAL</b>	<b>175,986,175</b>	<b>601,538</b>	<b>292.56</b>	<b>18,601,800</b>	<b>6,975,675</b>	<b>3.888</b>
<b>NEW YORK</b>						
ADDISON HOME TEL CO	561,319	2,725	205.99	0	0	0.000
AU SABLE VALLEY TEL	1,375,788	5,024	273.84	24,604	9,227	0.005
BERKSHIRE TEL CORP	703,769	4,137	170.12	0	0	0.000
CASSADAGA TEL CORP	259,556	1,100	235.96	0	0	0.000
CHAMPLAIN TEL CO	924,376	3,534	261.57	0	0	0.000
CHAUTAUQUA & ERIE	1,698,607	8,005	212.19	0	0	0.000
CHAZY & WESTPORT	567,659	2,419	234.67	0	0	0.000
CITIZENS HAMMOND NY	472,909	1,153	410.15	115,044	43,142	0.024
CLYMER TEL CO	208,046	685	303.72	16,658	6,247	0.003
TACONIC TEL CORP	3,318,407	16,154	205.42	0	0	0.000
CROWN POINT TEL CORP	335,793	682	492.37	110,104	41,289	0.023
DELHI TEL CO	783,847	3,334	235.11	0	0	0.000
DEPOSIT TEL CO	1,346,388	5,706	235.96	0	0	0.000
DUNKIRK & FREDONIA	944,032	7,407	127.45	0	0	0.000
EDWARDS TEL CO	612,144	1,328	460.95	183,102	68,663	0.038
EMPIRE TEL CORP	1,648,105	5,290	311.55	155,573	58,340	0.033
FISHERS ISLAND TEL	194,195	823	235.96	0	0	0.000
CONTEL OF NY, INC	52,535,459	164,551	319.27	5,664,984	2,124,369	1.184
GERMANTOWN TEL CO	553,900	1,415	391.45	121,341	45,503	0.025
HANCOCK TEL CO	337,928	1,138	296.95	22,667	8,500	0.005
HIGHLAND TEL CO	7,088,310	40,304	175.87	0	0	0.000
MARGARETVILLE TEL CO	595,343	2,256	263.89	0	0	0.000

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<b>NEW YORK (CONT.)</b>						
MIDDLEBURGH TEL CO	1,277,493	3,517	363.23	227,157	85,184	0.047
ALLTEL NY-FULTON	7,294,266	32,671	223.26	0	0	0.000
NEWPORT TEL CO	652,687	1,970	331.31	83,238	31,214	0.017
NICHOLVILLE TEL CO	444,985	1,193	373.00	85,795	32,173	0.018
ALLTEL NY-JAMESTOWN	5,437,506	37,059	146.73	0	0	0.000
OGDEN TEL CO	2,090,333	15,235	137.21	0	0	0.000
ONEIDA COUNTY RURAL	651,437	2,815	231.42	0	0	0.000
ONTARIO TEL CO	819,961	3,475	235.96	0	0	0.000
ALLTEL NY-RED JACKET	359,077	2,215	162.11	0	0	0.000
ORISKANY FALLS TEL	146,531	621	235.96	0	0	0.000
PATTERSONVILLE TEL	249,882	1,059	235.96	0	0	0.000
PORT BYRON TEL CO	676,394	2,609	259.25	0	0	0.000
RED HOOK TEL CO	2,973,572	9,774	304.23	240,938	90,352	0.050
ROCHESTER TEL CORP	81,904,180	410,548	199.50	0	0	0.000
SENECA-GORHAM TEL	1,163,787	6,489	179.35	0	0	0.000
STATE TEL CO	1,462,244	6,197	235.96	0	0	0.000
SYLVAN LAKE TEL CO	1,963,589	11,028	178.05	0	0	0.000
TOWNSHIP TEL CO	621,047	2,632	235.96	0	0	0.000
TRUMANSBURG HOME TEL	1,059,224	4,489	235.96	0	0	0.000
VERNON TEL CO	463,814	1,750	265.04	0	0	0.000
WARWICK VALLEY-NY	1,150,305	9,071	126.81	0	0	0.000
WESTERN COUNTIES TEL	6,659,403	16,690	399.01	1,525,856	572,196	0.319
NEW YORK TEL CO	1,931,239,787	8,870,620	217.71	0	0	0.000
<b>STATE TOTAL</b>	<b>2,127,827,382</b>	<b>9,732,897</b>	<b>218.62</b>	<b>8,577,061</b>	<b>3,216,398</b>	<b>1.793</b>
<b>NORTH CAROLINA</b>						
ATLANTIC MEMBERSHIP	3,322,781	16,325	203.54	0	0	0.000
BARNARDSVILLE TEL CO	198,303	786	252.29	0	0	0.000
CAROLINA TEL & TEL	155,252,210	687,094	225.95	0	0	0.000
CENTEL OF NC	30,843,129	172,303	179.01	0	0	0.000
CITIZENS TEL CO	3,474,399	11,775	295.07	220,156	82,559	0.046
CONCORD TEL CO	8,120,988	66,903	121.38	0	0	0.000
ALLTEL CAROLINA-NC	18,705,069	78,858	237.20	0	0	0.000
ELLERBE TEL CO	346,861	1,470	235.96	0	0	0.000
GTC OF THE SO-NC	26,321,815	119,232	220.76	0	0	0.000
HEINS TEL CO	4,307,886	20,769	207.42	0	0	0.000
LEXINGTON TEL CO	4,994,801	21,168	235.96	0	0	0.000
MEBANE HOME TEL CO	1,259,554	5,338	235.96	0	0	0.000
NORTH STATE TEL CO	17,630,223	74,717	235.96	0	0	0.000

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<b>NORTH CAROLINA (CONT.)</b>						
PINEVILLE TEL CO	254,837	1,080	235.96	0	0	0.000
RANDOLPH TEL CO	649,598	2,753	235.96	0	0	0.000
RANDOLPH MEMBERSHIP	1,308,634	5,546	235.96	0	0	0.000
PIEDMONT MEMBERSHIP	493,628	2,092	235.96	0	0	0.000
SALUDA MOUNTAIN TEL	218,263	925	235.96	0	0	0.000
SANDHILL TEL CO	803,208	3,404	235.96	0	0	0.000
SERVICE TEL CO	219,207	929	235.96	0	0	0.000
SKYLINE MEMBERSHIP	4,813,584	20,400	235.96	0	0	0.000
STAR MEMBERSHIP CORP	2,811,769	11,411	246.41	0	0	0.000
SURRY MEMBERSHIP	1,945,018	8,243	235.96	0	0	0.000
TRI COUNTY TEL MEMBR	574,799	2,436	235.96	0	0	0.000
CONTEL OF NC	30,130,929	69,779	431.81	8,095,998	3,035,999	1.692
WILKES MEMBERSHIP	2,258,714	6,710	336.62	306,676	115,004	0.064
YADKIN VALLEY TEL	3,990,320	16,911	235.96	0	0	0.000
SOUTHERN BELL-NC	395,738,131	1,395,867	283.51	2,401,519	900,570	0.502
<b>STATE TOTAL</b>	<b>720,988,658</b>	<b>2,825,224</b>	<b>255.20</b>	<b>11,024,349</b>	<b>4,134,131</b>	<b>2.304</b>
<b>NORTH DAKOTA</b>						
NORTH DAKOTA TEL CO	3,151,064	9,340	337.37	431,432	161,787	0.090
WOLVERTON TEL CO	110,717	266	416.23	27,754	10,408	0.006
ABSARAKA COOP TEL CO	19,145	30	638.16	8,123	3,046	0.002
BEK TEL MUTUAL AID	1,157,284	3,738	309.60	105,192	39,447	0.022
CONSOLIDATED COOP	2,243,967	4,174	537.61	815,488	305,808	0.170
DAKOTA CENTRAL RURAL	1,026,274	2,230	460.21	306,231	114,837	0.064
DICKEY RURAL COOP	1,086,384	2,695	403.11	254,673	95,502	0.053
GILBY TEL CO	81,572	256	318.64	8,708	3,266	0.002
GRIGGS COUNTY TEL CO	355,592	1,507	235.96	0	0	0.000
INTER-COMMUNITY TEL	616,323	1,253	491.88	201,828	75,686	0.042
MIDSTATE TEL CO	453,992	1,421	319.49	49,123	18,421	0.010
MOORE & LIBERTY TEL	176,734	749	235.96	0	0	0.000
NOONAN FARMERS TEL	73,511	212	346.75	11,085	4,157	0.002
NORTH. STATES POWER	4,846,854	20,541	235.96	0	0	0.000
NORTHWEST COMM COOP	1,148,291	3,524	325.85	136,392	51,147	0.029
POLAR COMM MUT AID	1,834,410	8,418	217.92	0	0	0.000
RED RIVER RURAL TEL	542,956	1,633	332.49	70,251	26,344	0.015
RESERVATION TEL COOP	1,707,793	4,486	380.69	348,487	130,683	0.073
SOURIS RIVER TEL MUT	2,836,783	11,938	237.63	0	0	0.000
UNITED TEL MUTUAL	791,678	4,353	181.87	0	0	0.000
W. RIVER MUTUAL AID	1,825,751	8,634	211.46	0	0	0.000

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<b>NORTH DAKOTA (CONT.)</b>						
YORK TEL. CO.	23,363	39	599.06	9,416	3,531	0.002
NEMONT TEL COOP - ND	115,661	233	496.40	38,320	14,370	0.008
NORTHWESTERN BELL-ND	62,842,434	240,827	260.94	0	0	0.000
<b>STATE TOTAL</b>	<b>89,068,532</b>	<b>332,497</b>	<b>267.88</b>	<b>2,822,503</b>	<b>1,058,439</b>	<b>0.590</b>
<b>OHIO</b>						
ARCADIA TEL CO	151,486	642	235.96	0	0	0.000
ARTHUR MUTUAL	219,207	929	235.96	0	0	0.000
AYERSVILLE TEL CO	227,701	965	235.96	0	0	0.000
BASCOM MUTUAL TEL CO	115,620	490	235.96	0	0	0.000
BENTON RIDGE TEL CO	277,737	988	281.11	9,507	3,565	0.002
BUCKLAND MUTUAL TEL	152,902	648	235.96	0	0	0.000
CHAMPAIGN TEL CO	1,906,793	8,081	235.96	0	0	0.000
CHILLICOTHE TEL	5,343,054	23,097	231.33	0	0	0.000
MCCLURE TEL CO	148,655	630	235.96	0	0	0.000
COLUMBUS GROVE TEL	329,636	1,397	235.96	0	0	0.000
CONNEAUT TEL CO	1,263,566	5,355	235.96	0	0	0.000
CONTEL OF OHIO	727,576	1,862	390.75	158,695	59,511	0.033
DOYLESTOWN TEL CO	679,565	2,880	235.96	0	0	0.000
ELYRIA TEL CO	9,110,888	38,612	235.96	0	0	0.000
FARMERS MUTUAL TEL	98,044	374	262.15	0	0	0.000
FAYETTEVILLE TEL CO	518,957	1,109	467.95	158,729	59,523	0.033
FORT JENNINGS TEL CO	104,239	435	239.63	0	0	0.000
GTC OF OHIO	140,725,091	580,580	242.39	0	0	0.000
GERMANTOWN INDEPEND	734,308	3,112	235.96	0	0	0.000
GLANDORF TEL CO	140,396	595	235.96	0	0	0.000
HARLAN TEL CO	143,936	610	235.96	0	0	0.000
KALIDA TEL CO	172,251	730	235.96	0	0	0.000
CENTEL OF OHIO	8,686,286	55,827	155.59	0	0	0.000
MIDDLE POINT HOME	109,721	465	235.96	0	0	0.000
MINFORD TEL CO	472,628	2,003	235.96	0	0	0.000
ALLTEL OHIO-NEWARK	8,411,266	35,647	235.96	0	0	0.000
NEW KNOXVILLE	202,926	860	235.96	0	0	0.000
NOVA TEL CO	191,279	707	270.55	1,950	731	0.000
OAKWOOD MUTUAL TEL	218,263	925	235.96	0	0	0.000
ORWELL TEL CO	907,497	4,883	185.85	0	0	0.000
OTTOVILLE MUTUAL	236,668	1,003	235.96	0	0	0.000
PATTERSONVILLE TEL	80,198	248	323.38	9,200	3,450	0.002
RIDGEVILLE TEL CO	102,262	414	247.01	0	0	0.000

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<b>OHIO (CONT.)</b>						
SHERWOOD MUTUAL TEL	212,128	899	235.96	0	0	0.000
SYCAMORE TEL CO	311,993	1,297	240.55	0	0	0.000
TELEPHONE SERVICE	1,578,808	6,691	235.96	0	0	0.000
UTC OF OHIO	109,486,242	394,578	277.48	440,921	165,345	0.092
VANLUE TEL CO	108,778	461	235.96	0	0	0.000
VAUGHNSVILLE TEL CO	77,328	232	333.31	10,104	3,789	0.002
WABASH MUTUAL TEL CO	141,812	601	235.96	0	0	0.000
ALLTEL OHIO-WEST OH	3,944,468	17,179	229.61	0	0	0.000
WESTERN RESERVE TEL	24,001,143	101,717	235.96	0	0	0.000
C, C & S TELCO -OHIO	64,268	428	150.16	0	0	0.000
CINCINNATI BELL-OH	96,675,114	590,736	163.65	0	0	0.000
OHIO BELL TEL CO	500,938,255	2,943,631	170.18	0	0	0.000
<b>STATE TOTAL</b>	<b>920,450,939</b>	<b>4,835,553</b>	<b>190.35</b>	<b>789,106</b>	<b>295,915</b>	<b>0.165</b>
<b>OKLAHOMA</b>						
LAVACA TEL CO-OK	243,039	1,030	235.96	0	0	0.000
KANOKLA TEL ASSN-OK	484,152	1,226	394.90	108,305	40,614	0.023
S. CENTRAL TEL - OK	132,827	399	332.90	17,271	6,477	0.004
ALLTEL OKLAHOMA INC	5,020,571	10,349	485.13	1,614,582	605,468	0.337
ATLAS TEL CO	314,867	1,329	236.92	0	0	0.000
BEGGS TEL CO	297,782	1,262	235.96	0	0	0.000
BIXBY TEL CO	1,304,859	5,530	235.96	0	0	0.000
CANADIAN VALLEY TEL	365,926	803	455.70	107,554	40,333	0.022
CARNEGIE TEL CO INC	436,029	1,568	278.08	12,000	4,500	0.003
CENTRAL OKLAHOMA TEL	855,974	2,116	404.52	202,196	75,824	0.042
CHEROKEE TEL CO	837,214	4,031	207.69	0	0	0.000
CHICKASAW TEL CO	2,237,501	6,933	322.73	254,274	95,353	0.053
CHOUTEAU TEL CO	1,186,820	2,635	450.41	342,479	128,430	0.072
CIMARRON TEL CO	1,445,019	6,124	235.96	0	0	0.000
OKLAHOMA COMM SYSTEM	6,455,416	12,341	523.09	2,276,709	853,766	0.476
CROSS TEL CO	2,514,357	6,891	364.88	453,606	170,102	0.095
DOBSON TEL CO	2,339,265	4,163	561.92	889,241	333,465	0.186
GRAND TEL CO INC	726,653	1,982	366.63	133,068	49,901	0.028
HINTON TEL CO	1,133,370	3,117	363.61	202,210	75,829	0.042
MICLOUD TEL CO	1,741,506	5,697	305.69	145,842	54,691	0.030
MEDICINE PARK TEL CO	134,497	570	235.96	0	0	0.000
MID-AMERICA TEL INC	354,912	1,389	255.52	0	0	0.000
OKLAHOMA ALLTEL, INC	3,901,085	9,177	425.09	1,018,494	381,935	0.213
OKLAHOMA TEL & TEL	1,044,138	1,756	594.61	418,144	156,804	0.087

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<b>OKLAHOMA (CONT.)</b>						
OKLAHOMA WESTERN TEL	1,019,284	2,450	416.03	255,261	95,723	0.053
PANHANDLE TEL COOP	2,416,696	4,335	557.48	911,546	341,830	0.191
PINE TELEPHONE CO	1,113,495	4,719	235.96	0	0	0.000
PIONEER TEL COOP INC	10,756,867	35,951	299.21	768,917	288,344	0.161
POTTAWATOMIE TEL CO	1,699,189	1,826	930.55	894,883	335,581	0.187
SALINA-SPAVINAW TEL	1,066,539	4,520	235.96	0	0	0.000
SHIDLER TEL CO	350,645	977	358.90	59,930	22,474	0.013
SW OKLAHOMA TEL CO	336,897	913	369.00	62,920	23,595	0.013
TERRAL TEL CO	87,618	294	298.02	6,060	2,273	0.001
TOTAH TELEPHONE CO	1,056,757	1,710	617.99	437,175	163,941	0.091
VALLIANT TEL CO	762,761	1,731	440.65	212,313	79,617	0.044
WYANDOTTE TEL CO	150,925	331	455.97	44,401	16,650	0.009
GTC OF THE SW-OK	35,908,596	92,484	388.27	7,710,244	2,891,342	1.612
SANTA ROSA TEL COOP	235,240	630	373.40	45,496	17,061	0.010
SOUTHWESTERN BELL-OK	347,399,070	1,237,150	280.81	1,794,424	672,909	0.375
<b>STATE TOTAL</b>	<b>439,868,358</b>	<b>1,482,439</b>	<b>296.72</b>	<b>21,399,545</b>	<b>8,024,829</b>	<b>4.473</b>
<b>OREGON</b>						
MIDVALE TEL EXCH -OR	125,600	200	628.00	52,633	19,737	0.011
C P NATIONAL CORP-OR	4,113,685	9,723	423.09	1,064,507	399,190	0.223
BEAVER CREEK COOP	1,026,105	2,964	346.19	153,905	57,714	0.032
TEL UTIL OF OREGON	14,660,399	32,334	453.41	4,275,312	1,603,242	0.894
CANBY TEL ASSN	1,591,042	6,533	243.54	0	0	0.000
CLEAR CREEK MUTUAL	875,688	2,510	348.88	135,103	50,664	0.028
COLTON TEL CO	331,251	847	391.09	72,404	27,152	0.015
EAGLE TEL SYSTEMS	82,912	264	314.06	8,194	3,073	0.002
CASCADE UTIL INC	1,737,161	6,738	257.82	0	0	0.000
GERVAIS TELEPHONE CO	153,138	649	235.96	0	0	0.000
RTI/HALSEY TEL CO	244,138	636	383.86	50,918	19,094	0.011
HELIX TEL CO.	132,424	233	568.34	50,892	19,085	0.011
HOME TELEPHONE CO	361,437	510	708.70	165,082	61,906	0.035
TRANS-CASCADES TEL	225,915	89	2,538.37	150,938	56,602	0.032
MOLALLA TEL CO.	1,462,728	4,130	354.17	238,686	89,507	0.050
MONITOR COOP TEL	120,104	509	235.96	0	0	0.000
MONROE TELEPHONE CO.	188,613	586	321.86	21,160	7,935	0.004
MT. ANGEL TEL CO.	306,040	1,297	235.96	0	0	0.000
NEHALEM TEL & TEL	479,416	1,498	320.04	52,321	19,620	0.011
NORTH STATE TEL CO.	153,938	351	438.57	42,503	15,939	0.009
OREGON TEL CORP	448,999	1,265	354.94	73,839	27,690	0.015

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<b>OREGON (CONT.)</b>						
PEOPLES TEL CO. - OR	237,140	1,005	235.96	0	0	0.000
PINE TEL SYSTEM INC.	265,637	602	441.26	74,112	27,792	0.015
PIONEER TEL COOP	2,166,577	9,294	233.12	0	0	0.000
ST PAUL COOP ASSN	103,412	426	242.75	0	0	0.000
SCIO MUTUAL TEL ASSN	419,550	1,271	330.09	52,695	19,761	0.011
STAYTON COOP TEL CO	1,068,790	4,282	249.60	0	0	0.000
UTC OF THE NW - OR	16,460,474	41,980	392.10	3,620,393	1,357,647	0.757
ASOTIN TEL - OR	38,613	45	858.06	19,606	7,352	0.004
GTC OF THE NW - OR	56,234,065	232,553	241.81	0	0	0.000
CONTEL OF THE NW- OR	7,667,701	19,403	395.18	1,718,153	644,307	0.359
MALHEUR HOME TEL CO	2,556,773	9,578	266.94	3,950	1,481	0.001
PACIFIC NW BELL-OR	194,064,220	894,810	216.88	0	0	0.000
<b>STATE TOTAL</b>	<b>310,103,682</b>	<b>1,289,115</b>	<b>240.56</b>	<b>12,097,306</b>	<b>4,536,490</b>	<b>2.529</b>
<b>PENNSYLVANIA</b>						
BENVILEYVILLE TEL	689,711	2,923	235.96	0	0	0.000
BREEZEWOOD TEL CO	702,925	2,979	235.96	0	0	0.000
BROOKVILLE TEL CO	6,132,364	25,989	235.96	0	0	0.000
BUFFALO VALLEY TEL	3,269,226	13,855	235.96	0	0	0.000
CANTON TEL CO	580,462	2,460	235.96	0	0	0.000
CITIZENS - KECKSBURG	1,000,706	4,241	235.96	0	0	0.000
CITIZENS UTIL OF PA	743,510	3,151	235.96	0	0	0.000
C-TEC CORPORATION	35,069,791	148,626	235.96	0	0	0.000
CONESTOGA TEL	7,865,019	33,332	235.96	0	0	0.000
COOPERSBURG TEL CO	646,294	2,739	235.96	0	0	0.000
DENVER & EPHRATA	8,020,280	33,990	235.96	0	0	0.000
ENTERPRISE TEL CO	3,747,753	15,883	235.96	0	0	0.000
GTC OF PENNSYLVANIA	81,860,774	365,349	224.06	0	0	0.000
CONTEL OF PA	9,928,063	40,771	243.51	0	0	0.000
HICKORY TEL CO	250,354	1,061	235.96	0	0	0.000
IRONTON TEL CO	518,640	2,198	235.96	0	0	0.000
ALLTEL PENNSYLVANIA	26,779,336	113,491	235.96	0	0	0.000
LACKAWAXEN TEL CO	593,723	1,133	524.03	209,818	78,682	0.044
LAKEWOOD RURAL TEL	302,265	1,281	235.96	0	0	0.000
LAUREL HIGHLAND TEL	994,335	4,214	235.96	0	0	0.000
LEWISBERRY TEL CO	1,455,401	6,168	235.96	0	0	0.000
MAHONNY & MAHANTONGO	416,705	1,766	235.96	0	0	0.000
MARIANNA - SCENERY	539,641	2,287	235.96	0	0	0.000
MURDOCKSVILLE INS	405,979	1,239	327.67	49,419	18,532	0.010



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<b>PENNSYLVANIA (CONT.)</b>						
MURRAYSVILLE TEL CO	5,260,964	22,296	235.96	0	0	0.000
NORTH EASTERN PA TEL	1,569,842	6,653	235.96	0	0	0.000
NORTH PENN TEL CO	1,010,032	3,679	274.54	19,691	7,384	0.004
NORTH PITTSBURGH TEL	8,415,985	35,667	235.96	0	0	0.000
OSWAYO RIVER TEL CO	435,103	1,766	246.38	0	0	0.000
OTTO TEL CO	105,710	448	235.96	0	0	0.000
PALMERTON TEL CO	1,807,690	7,661	235.96	0	0	0.000
PENNSYLVANIA TEL CO	200,802	851	235.96	0	0	0.000
PYMATUNING IND TEL	391,458	1,659	235.96	0	0	0.000
QUAKER STATE TEL CO	8,373,576	24,754	338.27	1,157,916	434,219	0.242
SOUTH CANAAN TEL CO	432,751	1,834	235.96	0	0	0.000
SUGAR VALLEY TEL CO	249,358	692	360.34	43,195	16,198	0.009
UTC OF PENNSYLVANIA	54,055,179	255,524	211.55	0	0	0.000
VENUS TEL CORP	244,992	998	245.48	0	0	0.000
YUKON - WALTZ TEL CO	224,162	950	235.96	0	0	0.000
WEST SIDE TEL CO-PA	19,631	31	633.27	8,280	3,105	0.002
BELL OF PENNSYLVANIA	806,758,551	4,614,426	174.83	0	0	0.000
<b>STATE TOTAL</b>	<b>1,082,069,044</b>	<b>5,811,015</b>	<b>186.21</b>	<b>1,488,319</b>	<b>558,120</b>	<b>0.311</b>
<b>PUERTO RICO</b>						
PUERTO RICO COMM	18,632,815	78,779	236.52	0	0	0.000
PUERTO RICO TEL CO	152,184,107	624,842	243.56	0	0	0.000
<b>STATE TOTAL</b>	<b>170,816,921</b>	<b>703,621</b>	<b>242.77</b>	<b>0</b>	<b>0</b>	<b>0.000</b>
<b>RHODE ISLAND</b>						
NEW ENGLAND TEL - RI	94,845,437	482,269	196.67	0	0	0.000
<b>STATE TOTAL</b>	<b>94,845,437</b>	<b>482,269</b>	<b>196.67</b>	<b>0</b>	<b>0</b>	<b>0.000</b>
<b>SOUTH CAROLINA</b>						
GTC OF THE SO-SC	30,973,505	122,008	253.86	0	0	0.000
UTC OF THE CAROLINAS	15,500,830	60,846	254.76	0	0	0.000
BLUFFTON TEL & APPL	586,279	2,129	275.38	12,557	4,709	0.003
CHESNEE TEL CO	752,005	3,187	235.96	0	0	0.000
CHESTER TEL CO - SC	2,581,166	10,939	235.96	0	0	0.000
ALLTEL SO CAROLINA	5,388,147	22,835	235.96	0	0	0.000

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<u>SOUTH CAROLINA (CONT.)</u>						
FARMERS TEL COOP	9,828,839	30,933	317.75	1,034,366	387,887	0.216
FORT MILL TEL CO	1,922,838	8,149	235.96	0	0	0.000
HARGRAY TEL CO	8,591,698	25,289	339.74	1,207,105	452,664	0.252
HEATH SPRINGS TEL CO	208,825	885	235.96	0	0	0.000
CONTEL OF SC	3,344,129	12,034	277.89	90,615	33,981	0.019
HOME TEL CO	2,776,069	11,765	235.96	0	0	0.000
HORRY TEL COOP	8,730,711	30,933	282.25	320,587	120,220	0.067
LANCASTER TEL CO	3,485,365	14,771	235.96	0	0	0.000
LOCKHART TEL CO INC	140,396	595	235.96	0	0	0.000
MCCLELLANVILLE TEL	310,030	922	336.26	41,923	15,721	0.009
NORWAY TEL CO	132,138	560	235.96	0	0	0.000
PALMETTO RURAL COOP	1,886,972	7,997	235.96	0	0	0.000
PIEDMONT RURAL COOP	1,859,129	7,879	235.96	0	0	0.000
POND BRANCH TEL CO	1,850,918	6,843	270.48	18,567	6,963	0.004
RIDGE TEL CO	273,950	1,161	235.96	0	0	0.000
RIDGEWAY TEL CO	251,769	1,067	235.96	0	0	0.000
ROCK HILL TEL CO	6,974,034	29,556	235.96	0	0	0.000
ST MATTHEWS TEL CO	755,544	3,202	235.96	0	0	0.000
ST STEPHEN TEL CO	747,993	3,170	235.96	0	0	0.000
SANDHILL TEL COOP-SC	2,101,224	8,905	235.96	0	0	0.000
WEST CAROLINA RURAL	1,739,025	7,370	235.96	0	0	0.000
WILLISTON TEL CO	1,102,820	3,270	337.25	150,792	56,547	0.032
SOUTHERN BELL-SC	307,257,714	919,735	334.07	6,232,538	2,337,202	1.303
<b>STATE TOTAL</b>	<b>422,054,061</b>	<b>1,358,935</b>	<b>310.58</b>	<b>9,109,050</b>	<b>3,415,894</b>	<b>1.904</b>
<u>SOUTH DAKOTA</u>						
ARMOUR INDEPENDENT	142,992	606	235.96	0	0	0.000
BALTIC COOP TEL CO	245,398	1,040	235.96	0	0	0.000
BISON STATE TEL CO	2,463,175	7,309	337.01	335,906	125,965	0.070
BROOKINGS-LAKE TEL	774,558	2,528	306.39	65,866	24,700	0.014
CHEYENNE RIVER SIOUX	905,566	1,693	534.89	327,313	122,742	0.068
BERESFORD MUNICIPAL	233,128	988	235.96	0	0	0.000
CITY OF BROOKINGS	2,035,863	8,628	235.96	0	0	0.000
DAKOTA COOP TELECOMM	1,224,396	5,189	235.96	0	0	0.000
CITY OF FAITH MUNIC	89,656	308	291.09	4,961	1,860	0.001
DEUEL TEL COOP ASSN	999,482	3,483	286.96	46,760	17,535	0.010
SPLITROCK TELCOMM	564,888	2,394	235.96	0	0	0.000
GOLDEN WEST TELECOMM	4,413,359	10,463	421.81	1,135,480	425,805	0.237
MT RUSHMORE TEL	83,892	270	310.71	7,792	2,922	0.002

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<u>SOUTH DAKOTA (CONT.)</u>						
HANSON COUNTY TEL CO	117,508	498	235.96	0	0	0.000
JAMES VALLEY COOP	634,902	1,946	326.26	75,836	28,439	0.016
JEFFERSON TEL CO -SD	109,014	462	235.96	0	0	0.000
KADOKA TELEPHONE CO	116,328	493	235.96	0	0	0.000
KENNEBEC TEL CO	154,539	276	559.92	58,541	21,953	0.012
MCCOOK COOP TEL CO	235,604	791	297.86	16,223	6,084	0.003
MIDSTATE TEL COMPANY	789,745	2,390	330.44	99,632	37,362	0.021
ROBERTS COUNTY COOP	146,428	421	347.81	22,322	8,371	0.005
SANBORN TEL COOP	596,991	2,402	248.54	0	0	0.000
SIOUX VALLEY TEL CO	1,041,999	4,416	235.96	0	0	0.000
STOCKHOLM-STRANDBURG	70,465	197	357.69	11,905	4,464	0.002
SULLY BUTTES TEL	1,310,390	3,962	330.74	165,938	62,227	0.035
TRI-COUNTY MUTUAL-SD	150,141	440	341.23	21,428	8,036	0.004
UNION TEL CO.	237,376	1,006	235.96	0	0	0.000
VALLEY TEL COOP ASSN	591,586	1,917	308.60	52,701	19,763	0.011
VIVIAN TELEPHONE CO	43,024	91	472.79	13,355	5,008	0.003
WESTERN TEL CO.	207,291	857	241.88	0	0	0.000
WEST RIVER COOP	904,425	1,478	611.92	371,134	139,175	0.078
NORTHWESTERN BELL-SD	61,011,043	237,224	257.19	0	0	0.000
<b>STATE TOTAL</b>	<b>82,645,152</b>	<b>306,166</b>	<b>269.94</b>	<b>2,833,093</b>	<b>1,062,410</b>	<b>0.592</b>
<u>TENNESSEE</u>						
ARDMORE TEL CO	1,292,117	5,476	235.96	0	0	0.000
WALKER COUNTY TEL CO	1,738,553	7,368	235.96	0	0	0.000
GTC OF THE SO-TN	12,692,150	44,672	284.12	517,276	193,979	0.108
ADAMSVILLE TEL CO	1,756,577	5,247	334.78	233,535	87,576	0.049
BEN LOMAND RURAL	4,802,966	20,355	235.96	0	0	0.000
BLED SOE TEL COOP	1,482,301	6,282	235.96	0	0	0.000
CLAIBORNE TEL CO	1,139,687	4,830	235.96	0	0	0.000
CONCORD TEL EXCHANGE	2,033,267	8,617	235.96	0	0	0.000
CROCKETT TEL CO	832,703	3,529	235.96	0	0	0.000
DEKALB TEL COOP	2,710,237	11,486	235.96	0	0	0.000
HIGHLAND TEL COOP-TN	3,540,108	15,003	235.96	0	0	0.000
HUMPHREYS COUNTY TEL	258,376	1,095	235.96	0	0	0.000
UNITED INTER-MT-TN	34,784,572	153,290	226.92	0	0	0.000
LORETTO TEL CO	982,301	4,163	235.96	0	0	0.000
MILLINGTON TEL CO	2,509,296	15,236	164.70	0	0	0.000
NORTH CENTRAL COOP	2,903,016	12,303	235.96	0	0	0.000
COLTEWAH-COLLEGE DALE	1,105,237	4,684	235.96	0	0	0.000

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<b>TENNESSEE (CONT.)</b>						
TENNESSEE TEL CO	9,399,679	29,191	322.01	1,056,945	396,354	0.221
PEOPLES TEL CO	719,678	3,050	235.96	0	0	0.000
ALLTEL TENNESSEE	2,907,499	12,322	235.96	0	0	0.000
TELLICO TEL CO	1,139,215	4,828	235.96	0	0	0.000
TWIN LAKES TEL COOP	4,725,588	20,905	226.05	0	0	0.000
UTC OF TN	1,493,391	6,329	235.96	0	0	0.000
WEST TENNESSEE TEL	861,490	3,651	235.96	0	0	0.000
YORKVILLE TEL COOP	416,605	1,736	239.98	0	0	0.000
SO. CENTRAL BELL -TN	379,532,078	1,666,546	227.74	0	0	0.000
<b>STATE TOTAL</b>	<b>477,758,685</b>	<b>2,072,194</b>	<b>230.56</b>	<b>1,807,756</b>	<b>677,909</b>	<b>0.378</b>
<b>TEXAS</b>						
CAMERON TEL CO TEXAS	420,753	969	434.21	114,170	42,814	0.024
BLOSSOM TEL CO	248,230	1,052	235.96	0	0	0.000
BIG BEND TEL CO INC	2,217,264	2,299	964.45	1,185,142	444,428	0.248
BRAZORIA TEL CO	1,766,570	4,659	379.17	356,615	133,731	0.075
BRAZOS TEL COOP INC	829,081	1,141	726.63	384,674	144,253	0.080
BYERS & PETROLIA TEL	198,640	771	257.64	0	0	0.000
CAP ROCK TEL CO INC	1,165,564	2,339	498.32	388,053	145,520	0.081
CENTRAL TEXAS CO-OP	3,089,324	3,374	915.63	1,615,769	605,913	0.338
COLEMAN COUNTY CO-OP	594,362	1,800	330.20	74,756	28,034	0.016
COLORADO VALLEY TEL	2,098,243	4,801	437.04	575,860	215,948	0.120
COMANCHE COUNTY TEL	1,147,936	4,673	245.65	0	0	0.000
COMMUNITY TEL CO	464,714	1,396	332.89	60,418	22,657	0.013
CUMBY TEL COOP INC	128,598	545	235.96	0	0	0.000
DELL TEL. CO-OP - TX	1,030,674	324	3,181.09	705,666	264,625	0.148
EASTEX TEL COOP INC	7,845,025	20,080	390.69	1,710,483	641,431	0.358
ELECTRA TELEPHONE CO	412,458	1,748	235.96	0	0	0.000
EYEX TEL COOP INC	2,525,716	8,905	283.63	100,278	37,604	0.021
FIVE AREA TEL CO-OP	1,477,611	1,460	1,012.06	804,767	301,788	0.168
FORT BEND TEL CO	5,591,722	15,879	352.15	893,645	335,117	0.187
GANADO TELEPHONE CO	459,541	1,272	361.27	80,286	30,107	0.017
GTC OF THE SW - TX	327,021,627	970,179	337.07	6,865,423	2,574,534	1.435
GUADALUPE VALLEY TEL	4,938,855	14,003	352.70	793,842	297,691	0.166
UTC OF TEXAS INC	36,001,057	93,923	383.30	7,480,114	2,805,043	1.564
HILL COUNTRY CO-OP	4,986,451	8,657	576.00	1,940,604	727,727	0.406
ALENCO CPMUNICATION	51,567	89	579.40	20,177	7,566	0.004
INDUSTRY TEL CO	1,084,803	1,461	742.51	509,959	191,235	0.107
KERRVILLE TEL CO	2,879,991	13,811	208.53	0	0	0.000

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TEXAS (CONT.)						
KNIPPA TELEPHONE CO	50,359	115	437.90	13,867	5,200	0.003
LAKE DALLAS TEL CO	1,405,129	4,142	339.24	196,361	73,635	0.041
LA WARD TEL EXCHANGE	469,664	848	553.85	176,005	66,002	0.037
LAKE LIVINGSTON TEL	424,688	921	461.12	127,103	47,664	0.027
LIPAN TEL CO	200,249	786	254.77	0	0	0.000
LIVINGSTON TEL CO	1,013,212	4,294	235.96	0	0	0.000
LUFKIN-CONROE TEL EX	14,374,157	56,998	252.19	0	0	0.000
MID-PLAINS RURAL TEL	1,199,386	2,112	567.89	460,592	172,722	0.096
CENTEL OF TEXAS	34,828,793	113,682	306.37	2,960,498	1,110,187	0.619
MUENSTER TEL CORP-TX	424,307	1,689	251.22	0	0	0.000
MUSTANG TEL CO	956,703	2,210	432.90	258,218	96,832	0.054
ALLTEL TEXAS INC	687,750	2,669	257.68	0	0	0.000
PEEPLS TELEPHONE CO	502,828	888	566.25	192,565	72,212	0.040
PEOPLES TEL COOP -TX	2,087,842	6,658	313.58	204,589	76,721	0.043
POKA-LAMBRO RURAL	1,811,013	3,209	564.35	691,309	259,241	0.145
RIVIERA TEL CO INC	504,074	729	691.46	226,544	84,954	0.047
SOUTHWEST TEXAS TEL	1,610,003	1,935	832.04	805,339	302,002	0.168
ROMAIN TELEPHONE CO	555,343	930	597.14	223,219	83,707	0.047
SAN MARCOS TEL CO	4,296,596	18,209	235.96	0	0	0.000
SANTA ROSA TEL COOP	910,339	1,571	579.46	356,241	133,590	0.074
SOUTH PLAINS TEL	1,437,754	3,462	415.30	358,804	134,552	0.075
SUGAR LAND TEL CO	6,633,377	22,051	300.82	494,701	185,513	0.103
SWEENEY-OLD OCEAN	1,196,096	2,607	458.80	355,245	133,217	0.074
TATUM TEL CO	162,340	688	235.96	0	0	0.000
TAYLOR TEL CO-OP INC	1,770,936	5,249	337.39	242,529	90,948	0.051
TEXAS-MIDLAND TEL	4,805,502	9,430	509.60	1,644,270	616,601	0.344
CENTEL OF TEXAS	68,305,450	144,341	473.22	21,229,807	7,961,178	4.438
TRI-COUNTY TEL - TX	100,856	400	252.14	0	0	0.000
TRINITY VALLEY TEL	2,706,265	5,005	540.71	989,480	371,055	0.207
VALLEY TEL CO-OP -TX	3,311,560	4,154	797.20	1,620,333	607,625	0.339
VALLEY VIEW TEL CO	303,464	851	356.60	50,733	19,025	0.011
WATERWOOD COMM INC	166,985	442	377.79	33,374	12,515	0.007
WEST TEXAS RURAL TEL	1,193,264	1,793	665.51	522,298	195,862	0.109
WES-TEX TEL CO-OP	1,343,033	3,017	445.16	380,250	142,594	0.079
XIT RURAL TEL CO-OP	912,308	992	919.66	478,055	179,271	0.100
ENMR TEL COOP-TX	149,055	726	205.31	0	0	0.000
SOUTHWESTERN BELL-TX	1,584,791,501	6,231,456	254.32	0	0	0.000
STATE TOTAL	2,158,278,555	7,842,869	275.19	61,953,030	23,232,386	12.950

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<b>UTAH</b>						
CONTEL THE WEST - UT	6,385,411	13,683	466.67	1,945,290	729,484	0.407
NAVAJO COMMUN - UT	246,588	265	930.52	129,864	48,699	0.027
CENTRAL UTAH TEL INC	189,713	737	257.41	0	0	0.000
EMERY COUNTY FARMERS	585,661	2,451	238.95	0	0	0.000
GUNNISON TEL CO	207,409	879	235.96	0	0	0.000
KAMAS-WOODLAND TEL	594,272	1,414	420.28	151,829	56,936	0.032
MANTI TEL CO	203,633	863	235.96	0	0	0.000
SKYLINE TELECOM	115,540	522	221.34	0	0	0.000
BEEHIVE TEL CO - UT	180,726	456	396.33	40,772	15,290	0.009
SOUTH CENTRAL UTAH	562,498	1,925	292.21	32,413	12,155	0.007
UINTAH BASIN TEL	1,101,044	2,494	441.48	307,450	115,294	0.064
UT-WY TELECOM	158,680	447	354.99	26,108	9,791	0.005
MOUNTAIN BELL-UT	130,428,406	643,373	202.73	0	0	0.000
<b>STATE TOTAL</b>	<b>140,959,580</b>	<b>669,509</b>	<b>210.54</b>	<b>2,633,726</b>	<b>987,647</b>	<b>0.551</b>
<b>VERMONT</b>						
FRANKLIN TEL CO - VT	129,542	549	235.96	0	0	0.000
LUDLOW TEL CO	660,599	3,119	211.80	0	0	0.000
NORTHFIELD TEL CO	412,921	2,383	173.28	0	0	0.000
PERKINSVILLE TEL CO	178,205	640	278.45	5,052	1,895	0.001
SHOREHAM TEL CO	545,205	1,900	286.95	25,495	9,561	0.005
TOPSHAM TEL CO	224,024	816	274.54	4,367	1,638	0.001
WAITSFIELD/FAYSTON	1,509,434	3,958	381.36	309,459	116,047	0.065
CONTEL OF VERMONT	10,189,705	26,897	378.84	2,052,131	769,549	0.429
NEW ENGLAND TEL-VT	70,054,121	230,847	303.47	857,931	321,724	0.179
<b>STATE TOTAL</b>	<b>83,903,757</b>	<b>271,109</b>	<b>309.48</b>	<b>3,254,435</b>	<b>1,220,413</b>	<b>0.680</b>
<b>VIRGIN ISLANDS</b>						
VIRGIN ISLANDS TEL	17,092,504	39,232	435.68	4,665,701	1,749,638	0.975
<b>STATE TOTAL</b>	<b>17,092,504</b>	<b>39,232</b>	<b>435.68</b>	<b>4,665,701</b>	<b>1,749,638</b>	<b>0.975</b>
<b>VIRGINIA</b>						
AMELIA TEL CORP	918,093	2,072	443.10	257,945	96,729	0.054
BUGGS ISLAND COOP	449,032	1,903	235.96	0	0	0.000
BURKE'S GARDEN TEL	42,045	88	477.78	13,244	4,967	0.003

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<u>VIRGINIA (CONT.)</u>						
CITIZENS TEL COOP	1,044,359	4,426	235.96	0	0	0.000
CLIFTON FORGE WAYNES	5,616,792	23,804	235.96	0	0	0.000
CONTEL OF VA	75,119,192	263,512	285.07	494,467	185,425	0.103
NORTH RIVER TEL COOP	158,801	673	235.96	0	0	0.000
HIGHLAND TEL COOP	263,745	888	297.01	17,722	6,646	0.004
MT GROVE-WILLIAMSVIL	391,028	1,184	330.26	49,219	18,457	0.010
NEW HOPE TEL CO - VA	149,127	632	235.96	0	0	0.000
PEMBROKE TEL COOP	346,153	1,467	235.96	0	0	0.000
PEOPLES MUTUAL TEL	1,334,118	5,654	235.96	0	0	0.000
SCOTT COUNTY COOP	1,095,090	4,641	235.96	0	0	0.000
ROANOKE & BOTETOURT	2,113,101	4,851	435.60	576,618	216,232	0.121
SHENANDOAH TEL CO	3,374,700	14,302	235.96	0	0	0.000
VIRGINIA HOT SPRINGS	363,850	1,542	235.96	0	0	0.000
CENTEL OF VIRGINIA	47,763,991	175,947	271.47	590,640	221,490	0.123
GTC OF THE SO - VA	9,330,019	27,464	339.72	1,310,566	491,462	0.274
UNITED INTER-MT-VA	19,937,403	66,580	299.45	1,434,394	537,898	0.300
C & P TEL CO OF VA	512,628,274	2,193,492	233.70	0	0	0.000
<b>STATE TOTAL</b>	<b>682,438,913</b>	<b>2,795,122</b>	<b>244.15</b>	<b>4,744,815</b>	<b>1,779,306</b>	<b>0.992</b>
<u>WASHINGTON</u>						
UTC OF THE NW-WA	16,225,302	44,630	363.55	2,893,292	1,084,985	0.605
ASOTIN TEL - WA	413,330	749	551.84	154,328	57,873	0.032
TEL UTIL OF WA INC	20,338,892	62,949	323.10	2,323,852	871,445	0.486
COWICHE TELEPHONE CO	357,994	1,318	271.62	4,552	1,707	0.001
ELLENSBURG TEL CO	2,720,969	12,851	211.73	0	0	0.000
GTC OF THE NW - WA	118,641,229	440,306	269.45	138,454	51,920	0.029
HAT ISLAND TEL CO	13,523	42	321.97	1,519	570	0.000
HOOD CANAL TEL CO	238,400	643	370.76	45,161	16,935	0.009
INLAND TEL CO -WA	651,810	1,286	506.85	221,582	83,093	0.046
KALAMA TEL CO	470,007	1,436	327.30	56,932	21,350	0.012
LEWIS RIVER TEL CO	744,282	2,046	363.77	132,976	49,866	0.028
MCDANIEL TEL CO	416,469	1,765	235.96	0	0	0.000
MASHELL TEL CO INC	696,113	1,649	422.14	179,363	67,261	0.037
PENINSULA TELECOMM	1,201,048	3,879	309.63	109,236	40,964	0.023
PIONEER TEL CO	485,879	745	652.19	209,574	78,590	0.044
ST JOHN TEL CO	183,471	529	346.83	27,688	10,383	0.006
TENINO TELEPHONE CO	712,000	1,820	391.21	155,743	58,404	0.033
TOLEDO TELEPHONE CO	505,985	1,228	412.04	124,268	46,601	0.026
CONTEL OF THE NW-WA	19,261,393	41,179	467.75	5,887,708	2,207,891	1.231

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<b>WASHINGTON (CONT.)</b>						
WESTERN WAHIAKUM	337,486	820	411.57	82,691	31,009	0.017
WHIDBEY TEL CO.	1,625,691	5,531	293.92	99,278	37,229	0.021
YELM TELEPHONE CO	1,267,774	4,546	278.88	37,156	13,934	0.008
PACIFIC NW BELL-WA	300,507,652	1,641,224	183.10	0	0	0.000
<b>STATE TOTAL</b>	<b>488,016,701</b>	<b>2,273,171</b>	<b>214.69</b>	<b>12,885,353</b>	<b>4,832,007</b>	<b>2.693</b>
<b>WEST VIRGINIA</b>						
ARMSTRONG OF WV	520,056	2,204	235.96	0	0	0.000
SPRUCE KNOB SENECA	176,970	750	235.96	0	0	0.000
HARDY TEL CO	940,562	1,727	544.62	346,489	129,933	0.072
RITCHIE TEL CO	837,422	3,549	235.96	0	0	0.000
MOUNTAIN STATE TEL	6,605,830	14,467	456.61	1,947,597	730,349	0.407
WAR TEL CO	397,121	1,683	235.96	0	0	0.000
WEST SIDE TEL-WV	384,379	1,629	235.96	0	0	0.000
CONTEL OF WV	8,954,094	20,713	432.29	2,410,649	903,993	0.504
GTC OF THE SO-WV	17,498,909	58,818	297.51	1,193,001	447,375	0.249
C & P TEL CO OF WV	217,832,794	627,801	346.98	5,064,753	1,899,282	1.059
<b>STATE TOTAL</b>	<b>254,148,137</b>	<b>733,341</b>	<b>346.56</b>	<b>10,962,489</b>	<b>4,110,933</b>	<b>2.291</b>
<b>WISCONSIN</b>						
CENCOM OF WISCONSIN	5,663,539	20,463	276.77	139,187	52,195	0.029
AMERY TEL CO	995,342	4,576	217.51	0	0	0.000
AMHERST TEL CO	843,064	3,158	266.96	1,343	504	0.000
BADGER STATE TEL CO	988,867	3,650	270.92	10,947	4,105	0.002
BALDWIN TELECOM	598,631	2,537	235.96	0	0	0.000
BELMONT TEL CO	158,093	670	235.96	0	0	0.000
BERGEN TEL CO	78,374	159	492.92	25,735	9,651	0.005
BLACK EARTH TEL CO	248,938	1,055	235.96	0	0	0.000
BLOOMER TEL CO	519,112	2,200	235.96	0	0	0.000
BONDUEL TEL CO	366,642	1,344	272.80	5,673	2,127	0.001
BRUCE TEL CO, INC	415,865	1,322	314.57	41,473	15,552	0.009
BURLINGTON B&W	453,751	2,607	174.05	0	0	0.000
CASCO TEL CO	254,203	992	256.25	0	0	0.000
LAKESHORE TEL CO	307,878	1,482	207.74	0	0	0.000
CENTRAL STATE TEL CO	1,999,101	6,500	307.55	174,258	65,347	0.036
CHEQUAMEGON TEL COOP	1,361,039	5,200	261.74	0	0	0.000
CHIBARDUM TEL COOP	940,441	4,292	219.11	0	0	0.000



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WISCONSIN (CONT.)						
CITIZENS TEL COOP-WI	369,749	1,567	235.96	0	0	0.000
CLEAR LAKE TEL CO-WI	269,702	1,143	235.96	0	0	0.000
COCHRANE COOP TEL CO	224,870	953	235.96	0	0	0.000
COON VALLEY FARMERS	422,604	1,791	235.96	0	0	0.000
CRANDON TEL CO	739,833	1,889	391.65	162,271	60,852	0.034
CUBA CITY EXCHANGE	329,400	1,396	235.96	0	0	0.000
DICKEYVILLE TEL CORP	207,409	879	235.96	0	0	0.000
DODGE COUNTY TEL CO	178,528	856	208.56	0	0	0.000
FAIRWATER-BRANDON-AL	260,972	1,106	235.96	0	0	0.000
FARMERS INDEPENDENT	483,718	2,050	235.96	0	0	0.000
FARMERS TEL CO - WI	1,170,834	4,962	235.96	0	0	0.000
MID-PLAINS TEL CO	3,324,204	14,088	235.96	0	0	0.000
FENNIMORE TEL CO	281,232	1,490	188.75	0	0	0.000
FOOTVILLE TEL CO	201,585	778	259.11	0	0	0.000
FORESTVILLE TEL CO	399,008	1,691	235.96	0	0	0.000
GTC OF WISCONSIN	93,225,249	261,269	356.82	2,364,863	886,824	0.494
GREENWOOD TEL CO	302,841	1,257	240.92	0	0	0.000
HAGER CITY TEL CO	424,775	1,532	277.27	10,918	4,094	0.002
HEADWATERS TEL CO	1,085,350	3,156	343.90	159,177	59,691	0.033
HILLSBORO TEL CO	263,744	1,366	193.08	0	0	0.000
CENTURY OF WISCONSIN	5,330,888	38,344	139.03	0	0	0.000
LAKEFIELD TEL CO	280,792	1,190	235.96	0	0	0.000
LARSEN-READFIELD TEL	379,595	1,862	203.86	0	0	0.000
LA VALLE TEL COOP	338,131	1,433	235.96	0	0	0.000
LEMONWEIR VALLEY TEL	656,082	2,254	291.07	36,282	13,606	0.008
LUCK TEL CO	397,121	1,683	235.96	0	0	0.000
MADLINE ISLAND TEL	76,772	229	335.25	10,262	3,848	0.002
MANAWA TEL CO	410,286	1,803	227.56	0	0	0.000
MAPLE TEL COOP, INC	86,714	288	301.09	6,511	2,442	0.001
MARQUETTE-ADAMS COOP	500,675	2,543	196.88	0	0	0.000
MIDWAY TEL CO	1,316,787	5,653	232.94	0	0	0.000
MILLTOWN MUTUAL TEL	360,361	1,734	207.82	0	0	0.000
MONDOVI TEL CO	466,965	1,979	235.96	0	0	0.000
MONROE COUNTY TEL CO	1,706,757	7,971	214.12	0	0	0.000
MOSEL & CENTERVILLE	574,934	2,617	219.69	0	0	0.000
MOSINEE TEL CO	767,106	3,251	235.96	0	0	0.000
MOUNT HOREB TEL CO	743,865	2,667	278.91	21,850	8,194	0.005
MT VERNON TEL CO	839,182	4,565	183.83	0	0	0.000
NELSON TEL COOP	743,274	3,150	235.96	0	0	0.000
NIAGARA TEL CO	723,552	2,999	241.26	0	0	0.000
NORTH-WEST TEL CO	12,684,812	49,774	254.85	0	0	0.000

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WISCONSIN (CONT.)						
NOVY'S TEL CO	119,396	506	235.96	0	0	0.000
BAYLAND TEL CO	279,645	1,198	233.43	0	0	0.000
PEOPLES TEL CO	405,156	1,617	250.56	0	0	0.000
PEOPLES TEL CO	1,405,747	5,180	271.38	17,085	6,407	0.004
PLATTEVILLE TEL CO	1,217,211	7,162	169.95	0	0	0.000
INDIANHEAD TEL CO	691,039	1,550	445.83	196,134	73,550	0.041
PRICE COUNTY TEL CO	897,992	3,074	292.12	51,579	19,342	0.011
NORTHEAST TEL CO	1,003,774	4,254	235.96	0	0	0.000
RHINELANDER TEL CO	1,609,334	8,851	181.83	0	0	0.000
RIB LAKE TEL CO	267,986	1,049	255.47	0	0	0.000
RICHLAND-GRANT COOP	517,710	2,137	242.26	0	0	0.000
ROCK RIVER TEL CO	344,855	1,310	263.25	0	0	0.000
ST CROIX TEL CO	1,166,350	4,943	235.96	0	0	0.000
SCANDINAVIA TEL CO	437,829	1,742	251.34	0	0	0.000
SHARON TEL CO	209,378	880	237.93	0	0	0.000
SHELL LAKE TEL CO	296,117	1,793	165.15	0	0	0.000
SIREN TEL CO, INC	317,376	1,663	190.85	0	0	0.000
SOLON SPRINGS TEL CO	3,223,067	12,805	251.70	0	0	0.000
SOMERSET TEL CO	261,444	1,108	235.96	0	0	0.000
SE TEL OF WISCONSIN	1,371,995	5,137	267.08	2,586	970	0.001
SPRING VALLEY TEL CO	182,869	775	235.96	0	0	0.000
STOCKBRIDGE & SHERWD	573,226	2,095	273.62	9,960	3,735	0.002
STATE LONG DISTANCE	1,251,532	5,304	235.96	0	0	0.000
UNIVERSAL OF N WISC	2,524,858	8,784	287.44	120,669	45,251	0.025
SULLIVAN TEL CO	347,097	1,471	235.96	0	0	0.000
TENNEY TEL CO	202,926	860	235.96	0	0	0.000
THORP TEL CO	486,909	1,845	263.91	0	0	0.000
TRI-COUNTY TEL COOP	738,791	3,131	235.96	0	0	0.000
TURTLE LAKE TEL CO	231,967	1,101	210.69	0	0	0.000
UNION TEL CO	725,813	3,076	235.96	0	0	0.000
UNITED TELEQUIPMENT	1,812,043	11,932	151.86	0	0	0.000
URBAN TEL CORP	2,808,673	16,049	175.01	0	0	0.000
VALDERS TEL CO	341,192	1,744	195.64	0	0	0.000
VERNON TEL COOP	1,204,812	5,106	235.96	0	0	0.000
VIROQUA TEL CO	598,126	2,972	201.25	0	0	0.000
WAUNAKEE TEL CO	764,982	3,242	235.96	0	0	0.000
WAYSIDE TEL CO	269,466	1,142	235.96	0	0	0.000
WEST WISCONSIN COOP	727,937	3,085	235.96	0	0	0.000
WITTENBERG TEL CO	467,110	1,676	278.71	13,513	5,067	0.003
WOOD COUNTY TEL CO	2,725,908	19,608	139.02	0	0	0.000
WISCONSIN BELL	299,885,809	1,521,250	197.13	0	0	0.000

NATIONAL EXCHANGE CARRIERS ASSOCIATION  
UNIVERSAL SERVICE FUND  
EXPENSE ADJUSTMENT  
STUDY AREA DETAIL FOR ALL EXCHANGE CARRIERS  
SUPPORT DETERMINATION AT 200,000 LOOPS

STUDY AREA	UNSEPARATED REVENUE REQUIREMENT	LOOPS	UNSEPARATED REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FULL EXPENSE ADJUSTMENT	UNIVERSAL SERVICE FUND EXPENSE ADJUSTMENT APPLICABLE TO 1988	PERCENT OF TOTAL
<b>WISCONSIN (CONT.)</b>						
<b>STATE TOTAL</b>	<b>484,658,587</b>	<b>2,189,622</b>	<b>221.34</b>	<b>3,582,276</b>	<b>1,343,354</b>	<b>0.749</b>
<b>WYOMING</b>						
UTC OF THE WEST-WY	1,420,107	5,487	258.81	0	0	0.000
RANGE TEL COOP - WY	822,780	1,356	606.77	335,262	125,723	0.070
CHUGWATER TEL CO	56,156	136	412.91	13,851	5,194	0.003
UTAH-WYOMING TELECOM	83,559	304	274.86	1,690	634	0.000
DUBOIS TEL EXCHANGE	965,161	1,549	623.09	401,939	150,727	0.084
EDEN VALLEY TEL CO	69,834	194	359.97	12,055	4,521	0.003
MEDICINE BOW TEL CO	68,477	225	304.34	5,562	2,086	0.001
SILVER STAR TEL-WY	265,086	947	279.92	8,380	3,143	0.002
TRI COUNTY TEL ASSN	323,047	1,005	321.44	36,016	13,506	0.008
UNION TELEPHONE CO	1,075,022	2,734	393.20	238,038	89,264	0.050
WYOMING TEL CO INC	692,585	2,727	253.97	0	0	0.000
MOUNTAIN BELL-WY	86,525,034	204,968	422.14	5,310,526	1,991,447	1.110
<b>STATE TOTAL</b>	<b>92,366,847</b>	<b>221,632</b>	<b>416.76</b>	<b>6,363,319</b>	<b>2,386,245</b>	<b>1.330</b>
<b>INDUSTRY TOTAL</b>	<b>27,393,263,217</b>	<b>118,289,121</b>	<b>231.58</b>	<b>478,402,620</b>	<b>179,400,983</b>	<b>100.000</b>

TOTAL NUMBER OF STUDY AREA CODES: 1485

SPF FACTORS FOR YEARS ENDING 1985-1987  
 COMPANIES SETTLING ON A COST BASIS IN 1986  
 NATIONAL EXCHANGE CARRIER ASSOCIATION

CODE	STUDY AREA	FROZEN SPF	1986 SPF	1987 SPF
----- ALABAMA -----				
250281	CONTEL OF THE SOUTH	0.2156	0.2199	0.2242
250284	BUTLER TEL CO	0.2941	0.2886	0.2831
250293	GTC OF THE SO-AL	0.3123	0.3045	0.2967
250295	GRACEBA TOTAL COMM	0.2910	0.2859	0.2808
250297	GROVE HILL TEL CORP	0.2121	0.2168	0.2216
250298	GULF TEL CO - AL	0.3827	0.3661	0.3495
250300	HOPPER TEL. CO INC	0.1375	0.1516	0.1656
250304	MILLRY TEL CO	0.3310	0.3209	0.3108
250306	MONROEVILLE TEL CO	0.2408	0.2420	0.2431
250314	PEOPLES TEL CO	0.1931	0.2002	0.2073
250315	PINE BELT TEL CO	0.1360	0.1503	0.1645
250316	RAGLAND TEL CO	0.1886	0.1963	0.2040
250318	SOUTHLAND TEL CO-AL	0.2666	0.2645	0.2625
250461	SOUTHEAST MS TEL CO	NA	NA	NA
255181	SO CENTRAL BELL-AL	0.2078	0.2131	0.2184
----- ALASKA -----				
613000	ANCHORAGE TEL UTIL	0.5502	0.5127	0.4752
613001	ARCTIC SLOPE TEL	0.8500	0.8000	0.7500
613003	BRISTOL BAY TEL COOP	0.8500	0.8000	0.7500
613004	BUSH-TELL INC.	0.4879	0.4582	0.4284
613006	COPPER VALLEY TEL	0.6443	0.5950	0.5457
613007	CORDOVA TEL COOP	0.8400	0.7900	0.7400
613008	FAIRBANKS MUNICIPAL	0.5035	0.4718	0.4401
613009	GTC OF ALASKA	0.5829	0.5413	0.4997
613010	GLACIER STATE TEL CO	0.6877	0.6377	0.5877
613011	INTERIOR TEL CO INC	0.8500	0.8000	0.7500
613012	JUNEAU & DOUGLAS TEL	0.6485	0.5987	0.5489
613013	KETCHIKAN PUBLIC UT	0.6584	0.6084	0.5584
613015	MATANUSKA TEL ASSOC	0.4458	0.4213	0.3969
613016	MUKLUK TEL CO INC	0.2804	0.2766	0.2728
613018	NUSHAGAK TEL COOP	0.6702	0.6202	0.5702
613019	OTZ TEL COOPERATIVE	0.3712	0.3561	0.3409
613020	SITKA TELEPHONE CO	0.6799	0.6299	0.5799
613022	TEL UTIL OF ALASKA	0.8500	0.8000	0.7500
613023	UNITED UTILITIES INC	0.3207	0.3119	0.3030
613025	YUKON TEL CO INC	0.4349	0.4118	0.3887
----- ARIZONA -----				
452171	ARIZONA TELEPHONE CO	0.8500	0.8000	0.7500
452172	CITIZENS UTILITIES	0.7250	0.6750	0.6250
452175	UNIVERSAL TEL OF SW	0.5762	0.5354	0.4947
452176	VALLEY TEL COOP-AZ	0.7298	0.6798	0.6298

SPF FACTORS FOR YEARS ENDING 1985-1987  
 COMPANIES SETTLING ON A COST BASIS IN 1986  
 NATIONAL EXCHANGE CARRIER ASSOCIATION

CODE	STUDY AREA	FROZEN SPF	1986 SPF	1987 SPF
-----				
ARIZONA (CONT.)				
-----				
452177	CONTEL OF WEST-AZ	0.4194	0.3982	0.3771
452275	NAVAJO COMMUN-AZ	0.8206	0.7706	0.7206
452302	CONTEL CALIF - AZ	0.6195	0.5733	0.5271
455101	MOUNTAIN BELL - AZ	0.4364	0.4131	0.3898
-----				
ARKANSAS				
-----				
401691	ALLTEL ARKANSAS INC *	0.3129	0.3050	0.2972
401692	ARKANSAS TEL CO	0.2803	0.2765	0.2727
401697	CENTRAL ARKANSAS TEL	0.2472	0.2476	0.2479
401698	CLEVELAND COUNTY TEL	NA	NA	NA
401699	DECATUR TEL CO INC	NA	NA	NA
401702	SOUTH ARKANSAS TEL	0.2839	0.2797	0.2754
401705	LIBERTY TEL & COMM	0.3702	0.3552	0.3402
401709	MADISON COUNTY TEL	0.3029	0.2963	0.2897
401711	MOUNTAIN HOME TEL	0.4904	0.4604	0.4303
401713	NORTH ARKANSAS TEL	0.5478	0.5106	0.4734
401720	REDFIELD TEL CO	NA	NA	NA
401722	E RITTER TEL CO	0.3411	0.3297	0.3183
401724	SW ARKANSAS TEL COOP	0.3106	0.3030	0.2955
401726	TRI-COUNTY TEL CO-AR	0.2580	0.2570	0.2560
401727	UNION TEL CO INC	0.3997	0.3810	0.3623
401728	UTC OF ARKANSAS	0.3457	0.3337	0.3218
401729	WALNUT HILL TEL CO	0.4652	0.4383	0.4114
401730	CONTEL OF ARKANSAS	0.3006	0.2943	0.2880
401733	YELCOT TEL CO INC	0.3808	0.3645	0.3481
401734	YELL COUNTY TEL CO	0.2295	0.2321	0.2346
402080	GTC OF THE SW-AR	0.2896	0.2847	0.2797
405211	SOUTHWESTERN BELL-AR	0.2855	0.2811	0.2766
-----				
CALIFORNIA				
-----				
542301	CALAVERAS TEL CO	0.2484	0.2486	0.2488
542302	CONTEL OF CALIFORNIA	0.2765	0.2732	0.2699
542304	C P NATIONAL CORP-CA	0.2863	0.2818	0.2772
542306	CAPAY VALLEY TEL SYS	NA	NA	NA
542308	CITIZENS UTIL OF CA	0.2259	0.2289	0.2319
542311	CALIF-OREGON TEL CO	0.4721	0.4443	0.4166
542313	DUCOR TELEPHONE CO	0.2041	0.2098	0.2156
542315	EVANS TEL CO.	0.1754	0.1847	0.1941
542318	FORESTHILL TEL CO.	0.2646	0.2628	0.2610
542319	GTC OF CALIFORNIA	0.2489	0.2490	0.2492
542321	HAPPY VALLEY TEL CO	0.1582	0.1697	0.1812
542322	HORNITOS TEL CO	0.2550	0.2544	0.2538
542324	KERMAN TELEPHONE CO	0.1152	0.1321	0.1489

SPF FACTORS FOR YEARS ENDING 1985-1987  
 COMPANIES SETTling ON A COST BASIS IN 1986  
 NATIONAL EXCHANGE CARRIER ASSOCIATION

CODE	STUDY AREA	FROZEN SPF	1986 SPF	1987 SPF
-----				
CALIFORNIA (CONT.)				
-----				
542332	PONDEROSA TEL CO	0.1796	0.1884	0.1972
542334	ROSEVILLE TEL CO	0.1821	0.1906	0.1991
542338	SIERRA TELEPHONE CO	0.1760	0.1853	0.1945
542339	SISKIYOU TEL CO	0.3307	0.3206	0.3105
542342	TUOLUMNE TEL CO	0.2678	0.2656	0.2634
542343	VOLCANO TEL CO	0.1881	0.1958	0.2036
542344	WEST COAST TEL OF CA	0.3986	0.3800	0.3615
542346	PINNACLES TEL CO	0.4592	0.4331	0.4069
545170	PACIFIC BELL	0.2496	0.2497	0.2497
-----				
COLORADO				
-----				
461835	SUNFLOWER TEL - CO	0.4856	0.4562	0.4267
462181	BIJOU TEL COOP ASSOC	0.4042	0.3849	0.3657
462182	BLANCA TEL CO	0.7548	0.7048	0.6548
462184	DELTA COUNTY TEL CO	0.3020	0.2955	0.2890
462185	EAGLE TELECOMMUN INC	0.6331	0.5852	0.5373
462186	EASTERN SLOPE RURAL	0.3875	0.3703	0.3531
462187	EL PASO COUNTY TEL	0.3710	0.3559	0.3408
462188	FARMERS TEL CO - CO	0.4998	0.4686	0.4374
462190	HAXTUN TEL CO	0.3454	0.3335	0.3216
462192	BIG SANDY TELCOMM	0.3445	0.3327	0.3209
462193	NUCLA-NATURITA TEL	0.4895	0.4596	0.4296
462194	NUNN TEL CO	0.6123	0.5670	0.5217
462196	PEETZ COOP TEL CO	0.4606	0.4343	0.4080
462197	PHILLIPS COUNTY TEL	0.4055	0.3861	0.3666
462199	PLAINS COOP TEL ASSN	0.2633	0.2616	0.2600
462203	RYE TELEPHONE CO	0.4716	0.4439	0.4162
462204	COLUMBINE TEL CO	0.7117	0.6617	0.6117
462207	STRASBURG TEL CO	0.4137	0.3932	0.3728
462208	UNIVERSAL TEL CO -CO	0.7651	0.7151	0.6651
462209	WIGGINS TEL ASSOC	0.2942	0.2887	0.2832
465102	MOUNTAIN BELL-CO	0.4298	0.4073	0.3849
-----				
CONNECTICUT				
-----				
135200	SOUTHERN NEW ENGLAND	0.3388	0.3277	0.3166
-----				
DELAWARE				
-----				
565010	DIAMOND STATE TEL	0.3452	0.3333	0.3214
-----				
DISTRICT OF COLUMBIA				
-----				
575020	C & P TEL CO OF WASH	0.4376	0.4142	0.3907

SPF FACTORS FOR YEARS ENDING 1985-1987  
 COMPANIES SETTLING ON A COST BASIS IN 1986  
 NATIONAL EXCHANGE CARRIER ASSOCIATION

CODE	STUDY AREA	FROZEN SPF	1986 SPF	1987 SPF
-----				
FLORIDA				
-----				
210291	FLORALA TEL CO	0.3504	0.3379	0.3253
210318	SOUTHLAND TEL-FL	0.2865	0.2819	0.2774
210328	GTC OF FLORIDA	0.4335	0.4106	0.3876
210329	GULF TEL CO	0.2804	0.2766	0.2728
210330	VISTA-UNITED TELCOM	0.6859	0.6359	0.5859
210331	INDIANTOWN SYSTEM	0.4374	0.4140	0.3906
210335	NORTHEAST FLORIDA	0.2059	0.2114	0.2169
210336	ALLTEL FLORIDA INC.	0.2616	0.2602	0.2587
210338	QUINCY TEL CO-FL DIV	0.2097	0.2147	0.2198
210339	ST JOSEPH TEL & TEL	0.3533	0.3404	0.3275
210340	CENDEL OF FLORIDA *	0.3593	0.3456	0.3320
210341	UTC OF FLORIDA	0.5015	0.4701	0.4386
215191	SOUTHERN BELL-FL	0.3643	0.3500	0.3357
-----				
GEORGIA				
-----				
220281	CONTEL OF SOUTH - GA	0.2024	0.2084	0.2143
220324	VALLEY TEL CO - GA	0.3779	0.3619	0.3459
220338	QUINCY TEL CO-GA DIV	0.2804	0.2766	0.2728
220344	ALMA TEL CO	0.1677	0.1780	0.1883
220347	BRANTLEY TEL CO	0.1839	0.1922	0.2004
220351	CAMDEN TEL & TEL CO	0.5922	0.5494	0.5067
220355	CITIZENS TEL CO - GA	0.1966	0.2033	0.2100
220356	COASTAL UTILITIES	0.5658	0.5263	0.4869
220358	DARIEN TEL CO	0.2665	0.2644	0.2624
220360	ELLIJAY TEL CO	0.1639	0.1747	0.1854
220371	INTERSTATE TEL CO	0.2478	0.2481	0.2484
220377	PINELAND TEL COOP	0.1521	0.1643	0.1766
220379	PLANT TEL. CO.	0.2195	0.2233	0.2271
220381	PUBLIC SERVICE TEL	0.1602	0.1714	0.1827
220386	STANDARD TEL CO	0.1858	0.1938	0.2019
220392	WAVERLY HALL TEL CO	0.2372	0.2388	0.2404
220394	WILKES TEL & ELC CO	0.1795	0.1883	0.1971
220479	GTC OF THE SO-GA	0.2170	0.2211	0.2253
225192	SOUTHERN BELL-GA	0.2891	0.2842	0.2793
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HAWAII				
-----				
623100	HAWAIIAN TEL CO	0.2885	0.2837	0.2789
-----				
IDAHO				
-----				
472177	CONTEL OF WEST-ID	0.4912	0.4611	0.4309
472213	ALBION TEL CO INC	0.4192	0.3981	0.3769
472215	CAMBRIDGE TEL CO	0.4220	0.4005	0.3790

SPF FACTORS FOR YEARS ENDING 1985-1987  
 COMPANIES SETTLING ON A COST BASIS IN 1986  
 NATIONAL EXCHANGE CARRIER ASSOCIATION

CODE	STUDY AREA	FROZEN SPF	1986 SPF	1987 SPF
-----				
IDAHO (CONT.)				
-----				
472218	CUSTER TEL COOP	0.8500	0.8000	0.7500
472223	GEM STATE UTIL-ID	0.5202	0.4864	0.4527
472225	CENTURY TEL OF IDAHO	0.3911	0.3735	0.3558
472226	MIDVALE TEL EXCH INC	0.3190	0.3104	0.3018
472231	PROJECT MUTUAL TEL	0.3126	0.3048	0.2970
472232	ROCKLAND TEL CO INC	0.3460	0.3340	0.3220
472233	RURAL TEL CO - ID	0.3911	0.3735	0.3558
472234	TROY TELEPHONE CO	0.5082	0.4759	0.4437
472295	SILVER STAT TEL- ID	0.6617	0.6117	0.5617
472416	GTC OF THE NW-ID	0.5724	0.5321	0.4918
472423	INLAND TEL-ID	0.3950	0.3769	0.3588
475103	MOUNTAIN BELL-ID	0.3535	0.3406	0.3276
475162	PACIFIC NW BELL-ID	0.3787	0.3626	0.3465
-----				
ILLINOIS				
-----				
340985	CENDEL OF ILLINOIS	0.3168	0.3085	0.3001
341000	ALLTEL ILLINOIS INC.	0.3477	0.3355	0.3233
341003	EGYPTIAN COOP ASSN	0.2313	0.2336	0.2360
341004	EL PASO TEL CO	0.2461	0.2466	0.2471
341009	C-R TEL CO	0.1665	0.1769	0.1874
341011	LAKESIDE TEL CO	0.1846	0.1928	0.2010
341015	GTC OF ILLINOIS	0.2570	0.2561	0.2553
341023	GRIDLEY TEL CO	0.2563	0.2555	0.2547
341036	CONTEL OF ILLINOIS	0.2695	0.2671	0.2646
341037	IL CONSOLIDATED TEL	0.2229	0.2263	0.2297
341038	INLAND TEL CO	0.1884	0.1961	0.2038
341045	LEAF RIVER VLY TEL	0.2090	0.2141	0.2193
341055	MIDLAND TEL CO	0.1899	0.1974	0.2049
341060	MOULTRIE INDEPENDENT	0.1563	0.1680	0.1797
341073	PRAIRIE TEL CO	0.2063	0.2118	0.2172
345070	ILLINOIS BELL TEL CO	0.2701	0.2676	0.2651
-----				
INDIANA				
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320753	CLAY CTY RURAL COOP	0.1962	0.2029	0.2097
320762	ELNORA TEL CO	0.1313	0.1461	0.1610
320770	GARRETT TEL CO	0.2803	0.2765	0.2727
320772	GTC OF INDIANA	0.3179	0.3094	0.3009
320778	HOME TEL CO INC	0.1152	0.1321	0.1489
320779	CONTEL OF INDIANA	0.2662	0.2642	0.2622
320797	NEW PARIS TEL INC	0.2512	0.2511	0.2509
320807	PERRY-SPENCER RURAL	0.2022	0.2082	0.2142
320813	PULASKI-WHITE RURAL	0.2175	0.2216	0.2256
320830	TRI-COUNTY TEL CO	0.1544	0.1664	0.1783



SPF FACTORS FOR YEARS ENDING 1985-1987  
 COMPANIES SETTLING ON A COST BASIS IN 1986  
 NATIONAL EXCHANGE CARRIER ASSOCIATION

CODE	STUDY AREA	FROZEN SPF	1986 SPF	1987 SPF
-----				
INDIANA (CONT.)				
-----				
320832	UTC OF INDIANA	0.3094	0.3020	0.2946
320839	YEOMAN TEL CO, INC	0.2266	0.2295	0.2325
325080	INDIANA BELL TEL CO	0.2355	0.2373	0.2391
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IOWA				
-----				
351105	AYRSHIRE FARMERS MUT	0.2296	0.2322	0.2347
351110	BERNARD TEL CO INC	0.1830	0.1914	0.1998
351113	BROOKLYN MUTUAL TEL	0.1890	0.1966	0.2043
351153	DUNKERTON TEL COOP	0.1585	0.1699	0.1814
351186	GTC OF THE MW-IA	0.2856	0.2812	0.2767
351207	CONTEL OF IOWA	0.2336	0.2357	0.2377
351214	KALONA COOP TEL CO	0.2527	0.2524	0.2520
351229	LOST NATION-ELWOOD	0.1550	0.1669	0.1788
351316	UNITED FARMERS TEL	0.2940	0.2885	0.2830
351317	UTC OF IOWA	0.2583	0.2573	0.2562
351327	WEBB-DICKENS TEL	0.2710	0.2684	0.2658
351329	WELLMAN COOP TEL	0.1730	0.1826	0.1923
351346	ACE TEL ASSN-IA	0.1894	0.1970	0.2046
351888	GRAND RIVER MUT-IA	0.2804	0.2766	0.2728
355141	NORTHWESTERN BELL-IA	0.2849	0.2805	0.2762
-----				
KANSAS				
-----				
411741	ASSARIA TEL EXCHANGE	0.3181	0.3096	0.3011
411746	BLUE VALLEY TEL CO	0.2826	0.2785	0.2745
411761	CUNNINGHAM TEL CO	0.2990	0.2929	0.2868
411764	ELKHART TEL CO INC	0.5548	0.5167	0.4786
411777	GOLDEN BELT TEL ASSN	0.4788	0.4502	0.4216
411780	HAVILAND TEL CO	0.2887	0.2839	0.2790
411781	H & B COMMUNICATIONS	0.3346	0.3240	0.3135
411782	HOME TEL CO	0.2988	0.2927	0.2866
411785	J B N TEL CO INC	0.2904	0.2854	0.2803
411788	KANOKLA TEL ASSN-KS	0.3774	0.3615	0.3456
411789	KANSAS STATE TEL CO	0.2804	0.2766	0.2728
411790	CONTEL OF KANSAS	0.3199	0.3112	0.3024
411801	MADISON TEL CO INC	0.3029	0.2963	0.2897
411807	MOKAN DIAL INC-KS	0.3344	0.3239	0.3133
411808	MOUNDRIDGE TEL CO	0.3049	0.2980	0.2912
411814	PEOPLES MUTUAL TEL	0.4502	0.4252	0.4002
411818	CRAW-KAN TEL COOP	0.3067	0.2996	0.2925
411820	RAINBOW TEL COOP	0.2281	0.2308	0.2336
411826	RURAL TEL SERVICE CO	0.2780	0.2745	0.2710
411827	S & T TEL COOP ASSN	0.4099	0.3899	0.3699
411829	S & A TEL CO INC	0.2305	0.2329	0.2354

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KANSAS (CONT.)				
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411831	S. CENTRAL TEL - KS	0.3131	0.3052	0.2973
411833	SOUTHERN KANSAS TEL	0.3073	0.3001	0.2930
411835	SUNFLOWER TEL CO *	0.4635	0.4368	0.4101
411839	TRI-COUNTY TEL ASSN	0.2174	0.2215	0.2256
411840	TWIN VALLEY TEL INC	0.2527	0.2524	0.2520
411841	UNITED TEL ASSN	NA	NA	NA
411842	UTC OF KANSAS	0.4663	0.4393	0.4122
411845	WAMEGO TEL CO INC	0.2793	0.2756	0.2720
411847	WHEAT STATE TEL	0.2970	0.2911	0.2853
411849	WILSON TEL CO INC	0.2499	0.2499	0.2499
411852	ZENDA TEL COMPANY	0.1985	0.2049	0.2114
412030	TOTAH TELEPHONE CO	0.4864	0.4569	0.4273
415214	SOUTHWESTERN BELL-KS	0.3001	0.2938	0.2876
-----				
KENTUCKY				
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260407	GTC OF THE SO-KY	0.2537	0.2532	0.2528
260410	CONTEL OF KENTUCKY	0.1714	0.1812	0.1911
265061	CINCINNATI BELL-KY	0.1304	0.1454	0.1603
265182	SO CENTRAL BELL-KY	0.2047	0.2104	0.2160
-----				
LOUISIANA				
-----				
270422	ATHENS TEL CO	0.3010	0.2946	0.2883
270423	CENTRAL LOUISIANA	0.2804	0.2766	0.2728
270424	COASTAL TEL & ELECTR	0.1521	0.1643	0.1766
270425	CAMERON TEL CO - LA	0.3657	0.3512	0.3368
270427	CHATHAM TEL CO	0.1519	0.1642	0.1764
270429	EAST ASCENSION TEL	0.1783	0.1873	0.1962
270430	ELIZABETH TEL CO	0.1915	0.1988	0.2061
270431	CADDOAN TEL CO	0.3500	0.3375	0.3250
270433	LAFOURCHE TEL CO	0.2486	0.2488	0.2490
270434	EVANGELINE TEL CO	0.3500	0.3375	0.3250
270435	NORTHEAST LOUISIANA	0.2700	0.2675	0.2650
270436	NORTHWEST LOUISIANA	0.3092	0.3018	0.2944
270437	PLAIN DEALING TEL CO	0.1888	0.1965	0.2041
270439	RINGGOLD TEL CO	0.2804	0.2766	0.2728
270440	CENTURY TEL CO	0.3500	0.3375	0.3250
270442	LOUISIANA WESTERN	0.3500	0.3375	0.3250
270443	UTC OF LOUISIANA	0.3500	0.3375	0.3250
275183	SO CENTRAL BELL-LA	0.2023	0.2083	0.2142
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MAINE				
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100003	LINCOLNVILLE TEL CO	NA	NA	NA

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-----				
MAINE (CONT.)				
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100004	CHINA TEL CORP	0.3007	0.2944	0.2880
100010	HAMPDEN TEL CO	0.2625	0.2609	0.2594
100011	HARTLAND & ST ALBANS	0.3166	0.3083	0.3000
100014	CONTEL OF MAINE	0.3775	0.3616	0.3456
100024	SOMERSET TEL CO	0.3365	0.3257	0.3149
100025	STANDISH TEL CO	0.3422	0.3307	0.3192
100027	UNION RIVER TEL CO	0.4710	0.4434	0.4158
100029	UNITY TEL CO	0.3609	0.3470	0.3332
100031	WARREN TEL CO	0.3532	0.3403	0.3274
100034	WEST PENOBSCOT TEL	0.2551	0.2545	0.2538
105111	NEW ENGLAND TEL-ME	0.2987	0.2926	0.2865
-----				
MARYLAND				
-----				
180216	ARMSTRONG TEL OF MD	0.4052	0.3858	0.3664
185030	C & P TEL CO OF MD	0.2142	0.2187	0.2232
-----				
MASSACHUSETTS				
-----				
115112	NEW ENGLAND TEL-MA	0.2794	0.2757	0.2721
-----				
MICHIGAN				
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310678	BLANCHARD TEL ASSN	0.1298	0.1448	0.1599
310679	BLOOMINGDALE TEL CO	0.2608	0.2595	0.2581
310680	CHIPPEWA COUNTY TEL	0.2685	0.2662	0.2639
310681	ALLTEL MICHIGAN INC.	0.2385	0.2399	0.2414
310682	C, C & S TELCO - MI	0.1996	0.2059	0.2122
310683	CARR TEL CO	0.4030	0.3839	0.3648
310685	CHATHAM TEL CO - MI	0.2360	0.2378	0.2395
310687	CLAYTON TEL CO	0.2205	0.2242	0.2279
310695	GTC OF MICHIGAN	0.1920	0.1993	0.2065
310699	HICKORY TEL CO	0.1866	0.1945	0.2025
310702	CENTURY OF MICHIGAN	0.2027	0.2086	0.2145
310704	ACE TEL OF MICHIGAN	0.2079	0.2132	0.2184
310711	MIDWAY TEL CO	0.2848	0.2805	0.2761
310713	HIAWATHA TEL CO	0.3009	0.2945	0.2882
310717	ONTONAGON COUNTY TEL	0.3090	0.3016	0.2943
310721	PIGEON TEL CO *	0.1651	0.1757	0.1863
310728	SPRINGPORT TEL CO	0.1970	0.2036	0.2103
310732	UPPER PENINSULA TEL	0.3723	0.3570	0.3417
310734	WALDRON TEL CO	0.4235	0.4018	0.3801
310735	WESTPHALIA TEL CO	0.0682	0.0909	0.1137
310738	WOLVERINE TEL CO	0.1484	0.1611	0.1738
315090	MICHIGAN BELL TEL CO	0.1725	0.1822	0.1919

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-----				
MINNESOTA				
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361140	CONTEL OF MINNESOTA	0.2083	0.2135	0.2187
361186	GTC OF THE MW-MN	0.2604	0.2591	0.2578
361346	ACE TEL ASSN-MN	0.2594	0.2582	0.2571
361350	ARVIG TEL CO	0.3208	0.3120	0.3031
361357	BLACKDUCK TEL CO	0.2242	0.2274	0.2307
361362	BRIDGEWATER TEL CO	0.2986	0.2925	0.2865
361367	CENTEL OF MN	0.2344	0.2364	0.2383
361370	CLARA CITY TEL EXCH	NA	NA	NA
361373	CONSOLIDATED TEL CO	0.2094	0.2145	0.2196
361374	ARROWHEAD COMM CORP	0.2769	0.2735	0.2702
361379	DEER RIVER TEL CO	0.2123	0.2170	0.2217
361383	EAGLE VALLEY TEL CO	0.1403	0.1540	0.1677
361385	EAST OTTER TAIL TEL	0.2723	0.2695	0.2667
361387	EMILY COOP TEL CO	0.2142	0.2187	0.2232
361395	GARDEN VALLEY TEL CO	0.2344	0.2364	0.2383
361399	GRANADA TEL CO	0.1520	0.1643	0.1765
361401	HALSTAD TEL CO	0.2746	0.2715	0.2685
361410	JOHNSON TEL CO	0.3306	0.3205	0.3105
361414	LAKEDALE TEL CO	0.1655	0.1761	0.1866
361425	MADELIA TEL CO	0.1953	0.2021	0.2090
361433	MID STATE TEL CO	0.1898	0.1973	0.2049
361442	NEW ULM TELECOM, INC	0.2605	0.2592	0.2579
361443	NORMAN COUNTY TEL CO	0.2437	0.2445	0.2453
361445	NORTHLAND TEL CO	0.1974	0.2040	0.2106
361451	PAUL BUNYAN RURAL	0.2340	0.2360	0.2380
361456	UTC OF MINNESOTA	0.1913	0.1986	0.2060
361482	SHERBURNE CTY RURAL	0.1672	0.1776	0.1879
361483	SLEEPY EYE TEL CO	0.1597	0.1710	0.1823
361487	STARBUCK TEL CO	0.2537	0.2532	0.2528
361491	TWIN VALLEY-ULEN TEL	0.2075	0.2128	0.2181
361499	CROSSLAKE TEL CO	0.3443	0.3325	0.3207
365142	NORTHWESTERN BELL-MN	0.2707	0.2681	0.2655
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MISSISSIPPI				
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280446	BAY SPRINGS TEL CO	0.1964	0.2031	0.2098
280451	DECATUR TEL CO -MS	0.1240	0.1398	0.1555
280452	DELTA TEL CO	0.2399	0.2412	0.2424
280454	FRANKLIN TEL CO - MS	0.2075	0.2128	0.2181
280458	HOME TEL CO-OLIVE BR	NA	NA	NA
280459	HUGHES TEL CO	0.1810	0.1896	0.1983
280464	NOXAPATER TEL CO	0.1772	0.1863	0.1954
280466	SLEDGE TEL CO	0.2671	0.2650	0.2628
285184	SO CENTRAL BELL-MS	0.2492	0.2493	0.2494
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-----				
MISSOURI				
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421186	GTC OF THE MW-MO	0.3115	0.3038	0.2961
421807	MOKAN DIAL INC-MO	0.2389	0.2403	0.2417
421859	BOURBEUSE TEL	0.2804	0.2766	0.2728
421865	CITIZENS TEL CO - MO	0.2356	0.2374	0.2392
421873	EASTERN MISSOURI TEL	0.1849	0.1930	0.2012
421882	FIDELITY TEL CO	0.2135	0.2181	0.2226
421885	ALLTEL MISSOURI	0.2406	0.2418	0.2430
421886	GOODMAN TEL CO	0.4509	0.4258	0.4007
421888	GRAND RIVER MUT-MO	0.2448	0.2455	0.2461
421901	KINGDOM TELEPHONE CO	0.4115	0.3913	0.3711
421904	MISSOURI TEL CO	0.2256	0.2287	0.2317
421908	LE-RU TELEPHONE CO	0.2803	0.2765	0.2727
421917	MID-MISSOURI TEL CO	0.1772	0.1863	0.1954
421920	MILLER TEL CO - MO	0.2810	0.2771	0.2733
421922	CONTEL OF MISSOURI *	0.2844	0.2801	0.2758
421929	HOLWAY TEL CO	0.2951	0.2895	0.2838
421931	NE MISSOURI RURAL	0.2914	0.2862	0.2811
421932	LATHROP TEL COMPANY	0.1845	0.1927	0.2009
421934	ORCHARD FARM TEL CO	0.2725	0.2697	0.2669
421945	SENECA TEL CO	0.3710	0.3559	0.3408
421951	STOUTLAND TEL CO	0.2865	0.2819	0.2774
421957	UTC OF MISSOURI	0.3507	0.3381	0.3255
421963	WEBSTER COUNTY TEL	NA	NA	NA
421964	WHEELING TEL CO	0.1599	0.1712	0.1824
425213	SOUTHWESTERN BELL-MO	0.2709	0.2683	0.2657
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MONTANA				
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482235	BLACKFOOT TEL COOP	0.5518	0.5141	0.4764
482242	INTERBEL TEL COOP	0.6120	0.5668	0.5215
482244	LINCOLN TEL CO INC	0.5509	0.5133	0.4757
482246	MID-RIVERS TEL COOP	0.3390	0.3279	0.3168
482247	NEMONT TEL COOP-MT	0.4141	0.3936	0.3731
482248	NORTHERN TEL COOP	0.5608	0.5220	0.4831
482249	NW TEL SYSTEMS, INC.	0.4711	0.4435	0.4158
482250	PROJECT TEL CO	0.4051	0.3857	0.3663
482251	RANGE TEL COOP-MT	0.5017	0.4702	0.4388
482254	SOUTHERN MONTANA TEL	0.7929	0.7429	0.6929
482255	3-RIVERS TEL COOP	0.4883	0.4585	0.4287
482257	TRIANGLE TEL COOP	0.3505	0.3379	0.3254
482258	VALLEY RURAL TEL	0.8135	0.7635	0.7135
482416	GTC OF THE NW - MT	0.4653	0.4384	0.4115
485104	MOUNTAIN BELL-MT	0.4450	0.4206	0.3963
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----- NEBRASKA -----				
371186	GTC OF THE MW-NE	0.2718	0.2691	0.2664
371516	ARAPAHOE TEL CO	0.3290	0.3191	0.3093
371517	ARLINGTON TEL CO	NA	NA	NA
371524	BLAIR TEL CO	0.3236	0.3144	0.3052
371525	THREE RIVER TELCO	0.4006	0.3818	0.3630
371530	CONSOLIDATED TELCO	0.2363	0.2380	0.2397
371531	CLARKS TEL CO	0.1822	0.1907	0.1992
371534	COZAD TEL CO	0.2804	0.2766	0.2728
371536	CURTIS TEL CO	0.1759	0.1852	0.1944
371537	DALTON TEL CO, INC	0.4989	0.4678	0.4367
371540	DILLER TEL CO	0.2804	0.2766	0.2728
371542	EASTERN NEBRASKA TEL	0.3653	0.3509	0.3365
371553	GLENWOOD TEL MEMBER	0.1844	0.1926	0.2008
371557	HARTMAN TEL EXCH INC	0.2804	0.2766	0.2728
371558	HEMINGFORD COOP TEL	0.2923	0.2870	0.2817
371561	HERSHEY COOP TEL CO	0.3063	0.2993	0.2922
371565	K & M TEL CO, INC	0.1855	0.1936	0.2016
371567	KEYSTONE-ARTHUR TEL	0.5899	0.5474	0.5049
371568	LINCOLN TEL & TEL CO	0.3167	0.3084	0.3000
371574	NEBRASKA CENTRAL TEL	0.2594	0.2582	0.2571
371576	NORTHEAST NEBRASKA	0.2373	0.2389	0.2405
371577	GREAT PLAINS COMMUN	0.2862	0.2817	0.2772
371580	PETERSBURG TEL CO	0.2212	0.2248	0.2284
371581	PIERCE TEL CO	0.1618	0.1728	0.1839
371586	ROCK COUNTY TEL CO	0.2932	0.2878	0.2824
371587	RODEO TEL, INC	0.1622	0.1732	0.1842
371591	SE NEBRASKA TEL CO	0.3248	0.3155	0.3061
371592	STANTON TEL CO, INC	0.1787	0.1876	0.1965
371595	UTC OF THE WEST-NE	0.3854	0.3685	0.3516
371597	WAUNETA TEL CO	0.2804	0.2766	0.2728
372455	BENKELMAN TEL CO	0.4141	0.3936	0.3731
375143	NORTHWESTERN BELL-NE	0.3784	0.3624	0.3463
----- NEVADA -----				
552223	GEM STATE UTIL-NV	0.6780	0.6280	0.5780
552233	RURAL TEL CO - NV	NA	NA	NA
552302	CONTEL OF CALIF-NV	0.8300	0.7800	0.7300
552304	CP NATIONAL-NV	0.8200	0.7700	0.7200
552348	CENTEL OF NV	0.5886	0.5463	0.5040
552349	CHURCHILL COUNTY TEL	0.6460	0.5965	0.5470
552351	LINCOLN CTY TEL SYS	0.6709	0.6209	0.5709
552353	MOAPA VALLEY TEL CO.	0.7200	0.6700	0.6200
552354	NEVADA TEL-TELEGRAPH	0.8500	0.8000	0.7500
552356	RIO VIRGIN TEL CO	0.3500	0.3375	0.3250

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-----				
NEVADA (CONT.)				
-----				
555173	NEVADA BELL	0.6264	0.5794	0.5323
-----				
NEW HAMPSHIRE				
-----				
120038	BRETTON WOODS TEL CO	NA	NA	NA
120039	GRANITE STATE TEL CO	0.4730	0.4451	0.4173
120041	CONTEL OF NH	0.6542	0.6042	0.5542
120045	KEARSARGE TEL CO	0.6978	0.6478	0.5978
120046	MERIDEN TEL CO	0.8300	0.7800	0.7300
120047	MERRIMAK COUNTY TEL	0.5791	0.5380	0.4968
120049	UNION TEL CO	NA	NA	NA
120050	WILTON TEL CO - NH	NA	NA	NA
125113	NEW ENGLAND TEL-NH	0.4299	0.4074	0.3849
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NEW JERSEY				
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160135	WARWICK VALLEY-NJ	0.3971	0.3787	0.3603
160139	UNITED-SUSSEX TEL CO	0.3420	0.3305	0.3190
160140	HILLSBOROUGH & MONT	0.5027	0.4711	0.4395
160141	NEW JERSEY TEL CO	0.4371	0.4137	0.3903
160142	UTC OF NEW JERSEY	0.3735	0.3581	0.3426
160143	WEST JERSEY TEL CO	0.4088	0.3890	0.3691
165120	NEW JERSEY BELL	0.3186	0.3100	0.3015
-----				
NEW MEXICO				
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492066	DELL TEL CO-OP - NM	0.2804	0.2766	0.2728
492080	GTC OF THE SW - NM	0.4534	0.4280	0.4026
492176	VALLEY TEL COOP - NM	0.6384	0.5899	0.5413
492177	CONTEL OF WEST - NM	0.4414	0.4175	0.3936
492259	BACA VALLEY TEL CO	0.6777	0.6277	0.5777
492262	ENMR TEL COOP INC-NM	0.4199	0.3987	0.3774
492263	LA JICARITA RURAL	0.2587	0.2576	0.2565
492264	LEACO RURAL TEL COOP	0.6042	0.5599	0.5157
492268	WESTERN NEW MEXICO	0.4677	0.4405	0.4133
492270	PENASCO VALLEY TEL	0.6144	0.5689	0.5233
492272	ROOSEVELT CNTY RURAL	0.3628	0.3487	0.3346
492274	UNIVERSAL TEL OF SW	0.4901	0.4601	0.4301
492275	NAVAJO COMMUN - NM	0.7887	0.7387	0.6887
495105	MOUNTAIN BELL-NM	0.3607	0.3469	0.3330
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NEW YORK				
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150071	ADDISON HOME TEL CO	0.2442	0.2449	0.2457
150072	AU SABLE VALLEY TEL	0.3294	0.3195	0.3096

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-----				
NEW YORK (CONT.)				
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150073	BERKSHIRE TEL CORP	0.2558	0.2551	0.2544
150077	CHAMPLAIN TEL CO	0.5404	0.5041	0.4678
150078	CHAUTAUQUA & ERIE	0.4354	0.4122	0.3891
150079	CHAZY & WESTPORT	0.3404	0.3291	0.3178
150081	CITIZENS HAMMOND NY	0.2240	0.2273	0.2305
150082	CLYMER TEL CO	0.5595	0.5208	0.4821
150084	TACONIC TEL CORP	0.3754	0.3597	0.3441
150085	CROWN POINT TEL CORP	0.2676	0.2654	0.2632
150088	DELHI TEL CO	0.2636	0.2619	0.2602
150091	DUNKIRK & FREDONIA	0.2379	0.2394	0.2409
150092	EDWARDS TEL CO	0.1807	0.1894	0.1980
150093	EMPIRE TEL CORP	0.2638	0.2621	0.2604
150096	CONTEL OF NY, INC	0.2286	0.2313	0.2340
150097	GERMANTOWN TEL CO	0.2888	0.2840	0.2791
150099	HANCOCK TEL CO	0.3067	0.2996	0.2925
150100	HIGHLAND TEL CO	0.3047	0.2979	0.2910
150104	MARGARETVILLE TEL CO	0.2325	0.2347	0.2369
150105	MIDDLEBURGH TEL CO	0.2046	0.2103	0.2160
150106	ALLTEL NY-FULTON	0.1828	0.1912	0.1996
150107	NEWPORT TEL CO	0.1471	0.1600	0.1728
150108	NICHOLVILLE TEL CO	0.2010	0.2071	0.2133
150109	ALLTEL NY-JAMESTOWN	0.2492	0.2493	0.2494
150110	OGDEN TEL CO	0.1845	0.1927	0.2009
150111	ONEIDA COUNTY RURAL	0.1390	0.1529	0.1668
150113	ALLTEL NY-RED JACKET	0.2093	0.2144	0.2195
150118	PORT BYRON TEL CO	0.1524	0.1646	0.1768
150119	RED HOOK TEL CO	0.2970	0.2911	0.2853
150121	ROCHESTER TEL CORP	0.2140	0.2185	0.2230
150122	SENECA-GORHAM TEL	0.2018	0.2078	0.2139
150128	SYLVAN LAKE TEL CO	0.2884	0.2836	0.2788
150133	VERNON TEL CO	0.2594	0.2582	0.2571
150135	WARWICK VALLEY-NY	0.3879	0.3707	0.3534
150136	WESTERN COUNTIES TEL	0.2346	0.2365	0.2385
155130	NEW YORK TEL CO	0.2823	0.2783	0.2742
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NORTH CAROLINA				
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230468	ATLANTIC MEMBERSHIP	0.2195	0.2233	0.2271
230469	BARNARDSVILLE TEL CO	0.1940	0.2010	0.2080
230470	CAROLINA TEL & TEL	0.2409	0.2420	0.2432
230471	CENTEL OF NC	0.2009	0.2070	0.2132
230473	CITIZENS TEL CO	0.2482	0.2484	0.2487
230474	CONCORD TEL CO	0.1452	0.1583	0.1714
230476	ALLTEL CAROLINA-NC	0.2023	0.2083	0.2142
230479	GTC OF THE SO-NC	0.3102	0.3027	0.2952



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CODE	STUDY AREA	FROZEN SPF	1986 SPF	1987 SPF
-----				
NORTH CAROLINA (CONT.)				
-----				
230481	HEINS TEL CO	0.2041	0.2098	0.2156
230502	STAR MEMBERSHIP CORP	0.1224	0.1384	0.1543
230509	CONTEL OF NC	0.2877	0.2830	0.2783
230510	WILKES MEMBERSHIP	0.0844	0.1051	0.1258
235193	SOUTHERN BELL-NC	0.2441	0.2448	0.2456
-----				
NORTH DAKOTA				
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381447	NORTH DAKOTA TEL CO	0.2909	0.2858	0.2807
381604	BEK TEL MUTUAL AID	0.1831	0.1915	0.1998
381607	CONSOLIDATED COOP	0.3423	0.3308	0.3192
381610	DAKOTA CENTRAL RURAL	0.2226	0.2260	0.2295
381611	DICKEY RURAL COOP	0.2447	0.2454	0.2460
381616	INTER-COMMUNITY TEL	0.2140	0.2185	0.2230
381617	MIDSTATE TEL CO	0.4382	0.4147	0.3912
381625	NORTHWEST COMM COOP	0.3786	0.3625	0.3465
381630	POLAR COMM MUT AID	0.2460	0.2465	0.2470
381632	RESERVATION TEL COOP	0.3488	0.3365	0.3241
381634	SOURIS RIVER TEL MUT	0.4539	0.4284	0.4029
381636	UNITED TEL MUTUAL	0.2307	0.2331	0.2355
381637	W. RIVER MUTUAL AID	0.3784	0.3624	0.3463
385144	NORTHWESTERN BELL-ND	0.3241	0.3148	0.3056
-----				
OHIO				
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300597	CHILLICOTHE TEL	0.1363	0.1505	0.1647
300607	CONTEL OF OHIO	0.1593	0.1706	0.1820
300613	FAYETTEVILLE TEL CO	0.1503	0.1628	0.1752
300615	GTC OF OHIO	0.2258	0.2288	0.2319
300630	CENTEL OF OHIO	0.1837	0.1920	0.2003
300649	ORWELL TEL CO	0.2093	0.2144	0.2195
300661	UTC OF OHIO	0.2168	0.2210	0.2251
300665	ALLTEL OHIO-WEST OH	0.2019	0.2079	0.2139
300682	C, C & S TELCO -OHIO	0.2804	0.2766	0.2728
305062	CINCINNATI BELL-OH	0.1973	0.2039	0.2105
305150	OHIO BELL TEL CO	0.1972	0.2038	0.2104
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OKLAHOMA				
-----				
431788	KANOKLA TEL ASSN-OK	0.3600	0.3463	0.3325
431831	S. CENTRAL TEL - OK	0.4331	0.4102	0.3873
431965	ALLTEL OKLAHOMA INC	0.3450	0.3331	0.3213
431974	CANADIAN VALLEY TEL	0.3820	0.3655	0.3490
431976	CARNEGIE TEL CO INC	0.2706	0.2680	0.2655
431977	CENTRAL OKLAHOMA TEL	0.1897	0.1972	0.2048

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-----				
OKLAHOMA (CONT.)				
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431979	CHEROKEE TEL CO	0.4273	0.4051	0.3830
431980	CHICKASAW TEL CO	0.3273	0.3176	0.3080
431981	CHOUTEAU TEL CO	0.3183	0.3098	0.3012
431984	OKLAMOMA COMM SYSTEM	0.2367	0.2384	0.2400
431985	CROSS TEL CO	0.2790	0.2754	0.2718
431988	DOBSON TEL CO	0.4080	0.3883	0.3685
431994	GRAND TEL CO INC	0.4925	0.4622	0.4319
431995	HINTON TEL CO	0.2171	0.2212	0.2253
432006	MICLOUD TEL CO	0.1984	0.2049	0.2113
432010	MID-AMERICA TEL INC	0.3359	0.3252	0.3144
432011	OKLAHOMA ALLTEL, INC	0.3260	0.3165	0.3070
432013	OKLAHOMA TEL & TEL	0.2837	0.2795	0.2753
432014	OKLAHOMA WESTERN TEL	NA	NA	NA
432016	PANHANDLE TEL COOP	0.6183	0.5723	0.5262
432018	PIONEER TEL COOP INC	0.2979	0.2919	0.2859
432020	POTTAWATOMIE TEL CO	0.2578	0.2568	0.2559
432030	TOTAH TELEPHONE CO	0.3473	0.3351	0.3230
432032	VALLIANT TEL CO	0.2804	0.2766	0.2728
432034	WYANDOTTE TEL CO	NA	NA	NA
432080	GTC OF THE SW-OK	0.3302	0.3202	0.3102
432141	SANTA ROSA TEL COOP	0.3423	0.3308	0.3192
435215	SOUTHWESTERN BELL-OK	0.3223	0.3133	0.3042
-----				
OREGON				
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532226	MIDVALE TEL EXCH -OR	NA	NA	NA
532304	C P NATIONAL CORP-OR	0.5099	0.4774	0.4449
532359	BEAVER CREEK COOP	0.2566	0.2558	0.2550
532361	TEL UTIL OF OREGON	0.3863	0.3693	0.3522
532362	CANBY TEL ASSN	0.2996	0.2934	0.2872
532363	CLEAR CREEK MUTUAL	0.2535	0.2531	0.2526
532364	COLTON TEL CO	0.3343	0.3238	0.3132
532371	CASCADE UTIL INC	0.3213	0.3124	0.3035
532375	RTI/HALSEY TEL CO	0.4308	0.4082	0.3856
532376	HELIX TEL CO.	0.4696	0.4422	0.4147
532377	HOME TELEPHONE CO	0.3382	0.3272	0.3162
532378	TRANS-CASCADES TEL	0.5113	0.4786	0.4460
532383	MOLALLA TEL CO.	0.2601	0.2588	0.2576
532385	MONROE TELEPHONE CO.	0.4267	0.4046	0.3825
532387	NEHALEM TEL & TEL	0.4674	0.4402	0.4131
532388	NORTH STATE TEL CO.	0.3554	0.3422	0.3291
532389	OREGON TEL CORP	0.4209	0.3995	0.3782
532392	PINE TEL SYSTEM INC.	0.2951	0.2895	0.2838
532393	PIONEER TEL COOP	0.4153	0.3946	0.3740
532397	SCIO MUTUAL TEL ASSN	0.2435	0.2443	0.2451

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-----				
OREGON (CONT.)				
-----				
532399	STAYTON COOP TEL CO	0.3199	0.3112	0.3024
532400	UTC OF THE NW - OR	0.4209	0.3995	0.3782
532404	ASOTIN TEL - OR	0.8500	0.8000	0.7500
532416	GTC OF THE NW - OR	0.3854	0.3685	0.3516
532449	CONTEL OF THE NW- OR	0.3099	0.3024	0.2949
532456	MALHEUR HOME TEL CO	0.3812	0.3648	0.3484
535163	PACIFIC NW BELL-OR	0.3276	0.3179	0.3082
-----				
PENNSYLVANIA				
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170169	GTC OF PENNSYLVANIA	0.2203	0.2240	0.2277
170170	CONTEL OF PA	0.2618	0.2603	0.2589
170177	LACKAWAXEN TEL CO	0.7785	0.7285	0.6785
170189	MURDOCKSVILLE INS	0.2147	0.2191	0.2235
170192	NORTH PENN TEL CO	0.3391	0.3280	0.3168
170194	OSWAYO RIVER TEL CO	NA	NA	NA
170201	QUAKER STATE TEL CO	0.3157	0.3075	0.2993
170206	SUGAR VALLEY TEL CO	0.2536	0.2532	0.2527
170209	UTC OF PENNSYLVANIA	0.2202	0.2239	0.2277
170210	VENUS TEL CORP	0.1009	0.1195	0.1382
175000	BELL OF PENNSYLVANIA	0.2152	0.2196	0.2239
-----				
PUERTO RICO				
-----				
633200	PUERTO RICO COMM	0.3500	0.3375	0.3250
633201	PUERTO RICO TEL CO	0.3500	0.3375	0.3250
-----				
RHODE ISLAND				
-----				
585114	NEW ENGLAND TEL - RI	0.2868	0.2822	0.2776
-----				
SOUTH CAROLINA				
-----				
240479	GTC OF THE SO-SC	0.3291	0.3192	0.3093
240506	UTC OF THE CAROLINAS	0.2916	0.2864	0.2812
240512	BLUFFTON TEL & APPL	0.6278	0.5806	0.5334
240520	FARMERS TEL COOP	0.2793	0.2756	0.2720
240523	HARGRAY TEL CO	0.6930	0.6430	0.5930
240526	CONTEL OF SC	0.2870	0.2824	0.2778
240528	HORRY TEL COOP	0.2970	0.2911	0.2853
240533	MCCLELLANVILLE TEL	0.3214	0.3125	0.3036
240539	POND BRANCH TEL CO	0.1914	0.1987	0.2061
240551	WILLISTON TEL CO	0.2043	0.2100	0.2157
245194	SOUTHERN BELL-SC	0.2207	0.2244	0.2280
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CODE	STUDY AREA	FROZEN SPF	1986 SPF	1987 SPF
-----				
SOUTH DAKOTA				
-----				
391643	BISON STATE TEL CO	0.4130	0.3926	0.3723
391645	BROOKINGS-LAKE TEL	0.2922	0.2869	0.2817
391647	CHEYENNE RIVER SIOUX	0.2926	0.2873	0.2820
391659	GOLDEN WEST TELECOMM	0.4053	0.3859	0.3665
391668	KENNEBEC TEL CO	0.3034	0.2967	0.2901
391669	MCCOOK COOP TEL CO	0.2382	0.2397	0.2412
391670	MIDSTATE TEL COMPANY	0.2160	0.2203	0.2245
391676	SANBORN TEL COOP	0.2142	0.2187	0.2232
391680	SULLY BUTTES TEL	0.2272	0.2301	0.2329
391689	WEST RIVER COOP	0.3320	0.3218	0.3115
395145	NORTHWESTERN BELL-SD	0.3620	0.3480	0.3340
-----				
TENNESSEE				
-----				
290479	GTC OF THE SO-TN	0.2335	0.2356	0.2376
290552	ADAMSVILLE TEL CO	0.2803	0.2765	0.2727
290567	UNITED INTER-MT-TN	0.2192	0.2231	0.2269
290571	MILLINGTON TEL CO	0.3908	0.3732	0.3556
290575	TENNESSEE TEL CO	0.1741	0.1836	0.1931
290579	TWIN LAKES TEL COOP	0.1751	0.1845	0.1938
295185	SO. CENTRAL BELL -TN	0.2236	0.2269	0.2302
-----				
TEXAS				
-----				
440425	CAMERON TEL CO TEXAS	0.2304	0.2329	0.2353
442039	BIG BEND TEL CO INC	0.4114	0.3912	0.3711
442040	BRAZORIA TEL CO	0.1436	0.1569	0.1702
442041	BRAZOS TEL COOP INC	0.1639	0.1747	0.1854
442046	CAP ROCK TEL CO INC	0.1679	0.1782	0.1884
442052	CENTRAL TEXAS CO-OP	0.1437	0.1570	0.1703
442057	COLEMAN COUNTY CO-OP	0.2014	0.2075	0.2136
442059	COLORADO VALLEY TEL	0.1401	0.1538	0.1676
442060	COMANCHE COUNTY TEL	0.1182	0.1347	0.1512
442066	DELL TEL. CO-OP - TX	0.6719	0.6219	0.5719
442068	EASTEX TEL COOP INC	0.2025	0.2084	0.2144
442070	ETEX TEL COOP INC	0.1676	0.1779	0.1882
442071	FIVE AREA TEL CO-OP	0.2654	0.2635	0.2616
442072	FORT BEND TEL CO	0.2801	0.2763	0.2726
442076	GANADO TELEPHONE CO	0.0938	0.1133	0.1329
442080	GTC OF THE SW - TX	0.2504	0.2504	0.2503
442083	GUADALUPE VALLEY TEL	0.2288	0.2315	0.2341
442084	UTC OF TEXAS INC	0.1800	0.1888	0.1975
442086	HILL COUNTRY CO-OP	0.2503	0.2503	0.2502
442093	INDUSTRY TEL CO	0.1396	0.1534	0.1672
442097	KERRVILLE TEL CO	0.3400	0.3288	0.3175

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CODE	STUDY AREA	FROZEN SPF	1986 SPF	1987 SPF
-----				
TEXAS (CONT.)				
-----				
442101	LAKE DALLAS TEL CO	0.3330	0.3226	0.3123
442103	LA WARD TEL EXCHANGE	0.1663	0.1768	0.1872
442104	LAKE LIVINGSTON TEL	0.3321	0.3218	0.3116
442109	LUFKIN-CONROE TEL EX *	0.1756	0.1849	0.1942
442112	MID-PLAINS RURAL TEL	0.1961	0.2028	0.2096
442114	CENDEL OF TEXAS	0.4390	0.4154	0.3918
442116	MUENSTER TEL CORP-TX	0.1818	0.1903	0.1989
442117	MUSTANG TEL CO	0.2803	0.2765	0.2727
442121	ALLTEL TEXAS INC	0.2560	0.2553	0.2545
442129	PEEPLS TELEPHONE CO	0.1474	0.1602	0.1731
442130	PEOPLES TEL COOP -TX	0.1621	0.1731	0.1841
442131	POKA-LAMBRO RURAL	0.1391	0.1530	0.1668
442134	RIVIERA TEL CO INC	0.2293	0.2319	0.2345
442135	SOUTHWEST TEXAS TEL	0.1872	0.1951	0.2029
442136	ROMAIN TELEPHONE CO	0.2884	0.2836	0.2788
442141	SANTA ROSA TEL COOP	0.1715	0.1813	0.1911
442143	SOUTH PLAINS TEL	0.1561	0.1678	0.1796
442147	SUGAR LAND TEL CO	0.3073	0.3001	0.2930
442148	SWEENEY-OLD OCEAN	0.2194	0.2232	0.2271
442151	TAYLOR TEL CO-OP INC	0.1587	0.1701	0.1815
442153	TEXAS-MIDLAND TEL	0.1773	0.1864	0.1955
442154	CONTEL OF TEXAS *	0.2194	0.2232	0.2271
442156	TRINITY VALLEY TEL	0.2439	0.2447	0.2454
442159	VALLEY TEL CO-OP -TX	0.1851	0.1932	0.2013
442160	VALLEY VIEW TEL CO	0.2277	0.2305	0.2333
442163	WATERWOOD COMM INC	NA	NA	NA
442166	WEST TEXAS RURAL TEL	0.3457	0.3337	0.3218
442168	WES-TEX TEL CO-OP	0.1478	0.1606	0.1734
442170	XIT RURAL TEL CO-OP	0.4778	0.4493	0.4209
442262	ENMR TEL COOP-TX	0.4700	0.4425	0.4150
445216	SOUTHWESTERN BELL-TX	0.2347	0.2366	0.2385
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UTAH				
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502177	CONTEL THE WEST - UT	0.3933	0.3754	0.3575
502275	NAVAJO COMMUN - UT	0.8500	0.8000	0.7500
502277	CENTRAL UTAH TEL INC	0.1952	0.2021	0.2089
502278	EMERY COUNTY FARMERS	0.2667	0.2646	0.2625
502280	KAMAS-WOODLAND TEL	0.2465	0.2469	0.2474
502283	SKYLINE TELECOM	0.1443	0.1575	0.1707
502286	SOUTH CENTRAL UTAH	0.4529	0.4275	0.4022
502287	UINTAH BASIN TEL	0.3042	0.2974	0.2907
502288	UT-WY TELECOM	0.6028	0.5587	0.5146
505107	MOUNTAIN BELL-UT	0.3195	0.3108	0.3021
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-----				
VERMONT				
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140058	LUDLOW TEL CO	0.5127	0.4799	0.4470
140061	NORTHFIELD TEL CO	0.7143	0.6643	0.6143
140062	PERKINSVILLE TEL CO	0.5444	0.5076	0.4708
140068	TOPSHAM TEL CO	0.3976	0.3792	0.3607
140069	WAITSFIELD/FAYSTON	0.8222	0.7722	0.7222
140070	CONTEL OF VERMONT	0.5679	0.5282	0.4884
145115	NEW ENGLAND TEL-VT	0.4394	0.4157	0.3921
-----				
VIRGIN ISLANDS				
-----				
643300	VIRGIN ISLANDS TEL	0.4634	0.4367	0.4101
-----				
VIRGINIA				
-----				
190217	AMELIA TEL CORP	0.1625	0.1734	0.1844
190233	CONTEL OF VA	0.3248	0.3155	0.3061
190249	ROANOKE & BOTETOURT	0.2312	0.2336	0.2359
190254	CENTEL OF VIRGINIA	0.2918	0.2866	0.2814
190479	GTC OF THE SO - VA	0.2005	0.2067	0.2129
190567	UNITED INTER-MT-VA	0.2102	0.2152	0.2202
195040	C & P TEL CO OF VA	0.2693	0.2669	0.2645
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WASHINGTON				
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522400	UTC OF THE NW-WA	0.4063	0.3868	0.3672
522404	ASOTIN TEL - WA	0.2743	0.2713	0.2682
522408	TEL UTIL OF WA INC	0.4385	0.4149	0.3914
522410	COWICHE TELEPHONE CO	0.3049	0.2980	0.2912
522412	ELLENSBURG TEL CO	0.2973	0.2914	0.2855
522416	GTC OF THE NW - WA	0.3275	0.3178	0.3081
522417	HAT ISLAND TEL CO	0.2804	0.2766	0.2728
522419	HOOD CANAL TEL CO	0.4681	0.4408	0.4136
522423	INLAND TEL CO -WA	0.4471	0.4225	0.3978
522426	KALAMA TEL CO	0.4831	0.4540	0.4248
522427	LEWIS RIVER TEL CO	0.4405	0.4167	0.3929
522431	MASHELL TEL CO INC	0.2840	0.2798	0.2755
522436	PENINSULA TELECOMM	0.3488	0.3365	0.3241
522437	PIONEER TEL CO	0.3059	0.2989	0.2919
522442	ST JOHN TEL CO	0.2390	0.2404	0.2418
522446	TENINO TELEPHONE CO	0.2353	0.2371	0.2390
522447	TOLEDO TELEPHONE CO	0.2331	0.2352	0.2373
522449	CONTEL OF THE NW-WA	0.3305	0.3204	0.3104
522451	WESTERN WAHAKIUM	0.3079	0.3007	0.2934
522452	WHIDBEY TEL CO.	0.2804	0.2766	0.2728
522453	YELM TELEPHONE CO	0.2859	0.2814	0.2769

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-----				
WASHINGTON (CONT.)				
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525161	PACIFIC NW BELL-WA	0.3024	0.2959	0.2893
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WEST VIRGINIA				
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200259	HARDY TEL CO	0.2526	0.2523	0.2520
200270	MOUNTAIN STATE TEL	0.1719	0.1817	0.1914
200278	CONTEL OF WV	0.2245	0.2277	0.2309
200479	GTC OF THE SO-WV	0.2933	0.2879	0.2825
205050	C & P TEL CO OF WV	0.2152	0.2196	0.2239
-----				
WISCONSIN				
-----				
330841	CENCOM OF WISCONSIN	0.2402	0.2414	0.2427
330842	AMERY TEL CO	0.2933	0.2879	0.2825
330843	AMHERST TEL CO	0.1910	0.1984	0.2058
330844	BADGER STATE TEL CO	0.1443	0.1575	0.1707
330851	BONDUEL TEL CO	0.0984	0.1174	0.1363
330855	BRUCE TEL CO, INC	0.2830	0.2789	0.2748
330856	BURLINGTON B&W	0.3067	0.2996	0.2925
330857	CASCO TEL CO	0.0827	0.1036	0.1245
330858	LAKESHORE TEL CO	0.1753	0.1846	0.1940
330859	CENTRAL STATE TEL CO	0.2022	0.2082	0.2142
330860	CHEQUAMEGON TEL COOP	0.4266	0.4045	0.3825
330861	CHIBARDUM TEL COOP	0.1977	0.2042	0.2108
330870	CRANDON TEL CO	0.1757	0.1850	0.1943
330876	DODGE COUNTY TEL CO	0.1000	0.1188	0.1375
330882	FENNIMORE TEL CO	0.2316	0.2339	0.2362
330883	FOOTVILLE TEL CO	0.1573	0.1689	0.1805
330886	GTC OF WISCONSIN	0.2611	0.2597	0.2583
330888	GREENWOOD TEL CO	0.1550	0.1669	0.1788
330889	HAGER CITY TEL CO	0.2804	0.2766	0.2728
330891	HEADWATERS TEL CO	0.3244	0.3151	0.3058
330892	HILLSBORO TEL CO	0.1337	0.1482	0.1628
330895	CENTURY OF WISCONSIN	0.2624	0.2609	0.2593
330898	LARSEN-READFIELD TEL	0.1370	0.1511	0.1653
330900	LEMONWEIR VALLEY TEL	0.3562	0.3429	0.3297
330905	MANAWA TEL CO	0.1683	0.1785	0.1887
330908	MARQUETTE-ADAMS COOP	0.5665	0.5269	0.4874
330909	MIDWAY TEL CO	0.2020	0.2080	0.2140
330910	MILLTOWN MUTUAL TEL	0.2876	0.2829	0.2782
330913	MONROE COUNTY TEL CO	0.3120	0.3043	0.2965
330914	MOSEL & CENTERVILLE	0.1951	0.2020	0.2088
330916	MOUNT HOREB TEL CO	0.2804	0.2766	0.2728
330917	MT VERNON TEL CO	0.2172	0.2213	0.2254
330920	NIAGARA TEL CO	0.3607	0.3469	0.3330

SPF FACTORS FOR YEARS ENDING 1985-1987  
 COMPANIES SETTLING ON A COST BASIS IN 1986  
 NATIONAL EXCHANGE CARRIER ASSOCIATION

CODE	STUDY AREA	FROZEN SPF	1986 SPF	1987 SPF
-----				
WISCONSIN (CONT.)				
-----				
330922	NORTH-WEST TEL CO	0.2474	0.2477	0.2481
330925	BAYLAND TEL CO	0.1255	0.1411	0.1566
330931	PEOPLES TEL CO	0.1861	0.1941	0.2021
330934	PLATTEVILLE TEL CO	0.3324	0.3221	0.3118
330936	INDIANHEAD TEL CO	0.3561	0.3428	0.3296
330937	PRICE COUNTY TEL CO	0.2908	0.2857	0.2806
330940	RHINELANDER TEL CO	0.2302	0.2327	0.2352
330941	RIB LAKE TEL CO	0.2804	0.2766	0.2728
330943	ROCK RIVER TEL CO	0.2054	0.2110	0.2166
330945	SCANDINAVIA TEL CO	0.2580	0.2570	0.2560
330948	SHELL LAKE TEL CO	0.2381	0.2396	0.2411
330949	SIREN TEL CO, INC	0.4445	0.4202	0.3959
330950	OLON SPRINGS TEL CO	0.4341	0.4111	0.3881
330952	SE TEL OF WISCONSIN	0.1855	0.1936	0.2016
330954	STOCKBRIDGE & SHERWD	0.1151	0.1320	0.1488
330956	UNIVERSAL OF N WISC	0.5511	0.5135	0.4758
330959	THORP TEL CO	0.2103	0.2153	0.2202
330961	TURTLE LAKE TEL CO	0.3142	0.3062	0.2982
330963	UNITED TELEQUIPMENT	0.2763	0.2730	0.2697
330964	URBAN TEL CORP	0.2025	0.2084	0.2144
330965	VALDERS TEL CO	0.1412	0.1548	0.1684
330967	VIROQUA TEL CO	0.1821	0.1906	0.1991
330973	WITTENBERG TEL CO	0.1030	0.1214	0.1398
330974	WOOD COUNTY TEL CO	0.2033	0.2091	0.2150
335220	WISCONSIN BELL	0.2201	0.2238	0.2276
-----				
WYOMING				
-----				
511595	UTC OF THE WEST-WY	0.5004	0.4691	0.4378
512251	RANGE TEL COOP - WY	0.6419	0.5929	0.5439
512290	UTAH-WYOMING TELECOM	0.8300	0.7800	0.7300
512291	DUBOIS TEL EXCHANGE *	0.8016	0.7516	0.7016
512294	MEDICINE BOW TEL CO	0.7947	0.7447	0.6947
512295	SILVER STAR TEL-WY	0.8200	0.7700	0.7200
512297	UNION TELEPHONE CO	0.7944	0.7444	0.6944
512299	WYOMING TEL CO INC	0.7820	0.7320	0.6820
515108	MOUNTAIN BELL-WY	0.5670	0.5274	0.4878
-----				

NA = NOT AVAILABLE

\* SPF DATA DO NOT REFLECT MERGERS OR ACQUISITIONS IN 1986



#### 4. Network Usage and Growth

The amount of traffic carried on the public switched network is a vital concern to the Joint Board and the Commission, since the interstate toll rate decreases that have accompanied the subscriber line charge increase were designed to make usage of the network more efficient and to stimulate its growth. To monitor use of this network, the National Exchange Carrier Association (NECA) provides monthly reports to the Commission on the volumes of switched interstate usage. To supplement this information, the Joint Board recommended that the larger local telephone companies also provide, on an annual basis, their total switched minutes of use, their interstate switched minutes of use, and their Subscriber Plant Factor (SPF), Subscriber Line Usage (SLU), and Dial Equipment Minutes (DEM) factors. The Joint Board recognized that much of these data were not previously collected by any single entity and that reports could be received and consolidated by some other entity (such as NECA).

This report includes data on switched telephone traffic as reflected in the NECA calculations of carrier common line (CCL) minutes of use from June 1984 through February 1988. Our March report included this cumulative data through November 1987. Table 4.1 shows the latest available figures on minutes of use for interstate traffic as reported by NECA, derived from the Common Line Pool earned revenues. Tables 4.2 and 4.3 show the figures for large (Tier 1) and small (non-Tier 1) companies, respectively. Since June 1986, these figures do not count the minutes from the closed end of WATS.

Tables 4.4 and 4.5 are summary tables derived from the data from all cost companies as compiled by NECA. Table 4.4 gives local, state, interstate, and total subscriber line usage minutes (SLU) for the sum of the continental United States, Hawaii, and Puerto Rico, for 1980 through 1986. It also gives the year over year growth rates for 1981 through 1986 and annualized growth rates for 1980 through 1983 and 1983 through 1986. State and interstate SLU have grown faster since 1983 than they did before, leading to a slightly higher growth rate since 1983 for total SLU. Table 4.5 gives the same data for dial equipment minutes (DEM), and shows the same pattern of growth rates. These two tables suggest that the imposition of subscriber line charges has indeed stimulated the use of the public switched network.

NECA's compilation of data provided by all cost companies appears in Tables 4.6 through 4.23. Table 4.6 shows premium and non-premium minutes for 1984 for all Tier 1 companies, and Table 4.7 shows the same data for all of 1985. Table 4.8 shows these data for 1986, and also provides a breakdown of these minutes into originating and terminating. The originating and terminating minutes were counted separately only from June 1986 on, therefore originating and terminating do not sum to the total, which includes traffic for the entire year. Tables 4.9 through 4.23 give data for the years 1980 through 1986 for each large local exchange company

(LEC) and for All Other Cost Companies. The "All Other Cost Companies" data are drawn from a sample of smaller companies and weighted to represent all the smaller companies. Data for these smaller companies are reported only from 1984 on. Table 4.9 gives the data for local SLU minutes. Table 4.10 gives the data for state toll SLU minutes. Table 4.11 gives the data for interstate SLU minutes and table 4.12 gives total SLU minutes. Tables 4.13 through 4.16 give data for, respectively, local, state, interstate, and total DEM minutes. Tables 4.17 and 4.18 give message data for state and interstate calls, respectively. Table 4.19 gives the number of loops. Table 4.20 gives the interstate SLU factor, the proportion of total SLU minutes which are interstate. The interstate subscriber plant factor (SPF), the proportion of plant costs allocated to interstate, is given in table 4.21. Tables 4.22 and 4.23 give the interstate and weighted DEM factors, respectively. Data for 1987 and future years will be collected by NECA in conjunction with the USF cost data collection.

These data represent as major step forward in understanding the changes the telecommunications industry has gone through in the past several years. They provide, for perhaps the first time, publicly available consistent data that spans the years before and after divestiture. We recognize, however, that there are certain anomalies in the data. We solicit comments on problems detected in the data and on solutions to these problems.

TABLE 4.1

## NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.

SUPPLEMENTAL REPORT OF COMMON LINE POOL RESULTS  
REPORTED AS OF APRIL, 1988

PAGE 1 OF 1

## MINUTES OF USE DERIVED FROM N E C A CCL EARNED REVENUES

## TIER 1

(MOU REPORTED IN MILLIONS)

MONTH/YR	PREMIUM CCL MOUS			NONPREMIUM CCL MOUS		
	ORIGINATING	TERMINATING	TOTAL	ORIGINATING	TERMINATING	TOTAL
JUN 84	N/A	N/A	13,685.597	N/A	N/A	1,813.710
JUL 84	N/A	N/A	11,795.348	N/A	N/A	1,875.077
AUG 84	N/A	N/A	12,345.332	N/A	N/A	1,898.366
SEP 84	N/A	N/A	11,542.403	N/A	N/A	1,707.373
OCT 84	N/A	N/A	12,347.081	N/A	N/A	2,001.905
NOV 84	N/A	N/A	12,291.952	N/A	N/A	1,994.562
DEC 84	N/A	N/A	12,562.210	N/A	N/A	1,971.868
JAN 85	N/A	N/A	12,302.152	N/A	N/A	2,158.260
FEB 85	N/A	N/A	12,201.878	N/A	N/A	2,164.499
MAR 85	N/A	N/A	12,600.320	N/A	N/A	2,264.289
APR 85	N/A	N/A	12,915.205	N/A	N/A	2,249.389
MAY 85	N/A	N/A	12,959.438	N/A	N/A	2,007.246
JUN 85	N/A	N/A	13,003.811	N/A	N/A	2,271.726
JUL 85	N/A	N/A	13,262.800	N/A	N/A	2,165.717
AUG 85	N/A	N/A	13,658.918	N/A	N/A	1,970.276
SEP 85	N/A	N/A	13,553.502	N/A	N/A	1,950.462
OCT 85	N/A	N/A	14,303.096	N/A	N/A	1,757.488
NOV 85	N/A	N/A	13,386.365	N/A	N/A	1,757.072
DEC 85	N/A	N/A	14,083.511	N/A	N/A	1,743.455
JAN 86	N/A	N/A	14,389.693	N/A	N/A	1,500.785
FEB 86	N/A	N/A	13,824.567	N/A	N/A	1,370.954
MAR 86	N/A	N/A	14,935.645	N/A	N/A	1,322.737
APR 86	N/A	N/A	14,978.971	N/A	N/A	1,273.609
MAY 86	N/A	N/A	15,093.545	N/A	N/A	1,180.940
JUN 86	5,135.274	7,694.869	12,830.143	482.168	813.505	1,295.674
JUL 86	5,950.868	7,597.037	13,547.906	505.366	767.541	1,272.908
AUG 86	5,722.880	7,673.106	13,395.987	418.602	696.567	1,115.170
SEP 86	5,888.335	7,642.806	13,531.142	355.163	676.073	1,031.237
OCT 86	6,350.147	7,941.904	14,292.052	296.029	654.754	950.784
NOV 86	6,038.438	7,609.939	13,648.378	321.113	673.363	994.476
DEC 86	6,576.572	8,315.994	14,892.567	282.929	650.895	933.825
JAN 87	6,596.130	8,027.592	14,623.722	336.928	626.447	963.376
FEB 87	6,389.087	8,113.404	14,502.491	354.674	676.239	1,030.914
MAR 87	7,019.930	8,960.103	15,980.033	364.216	757.128	1,121.345
APR 87	6,874.424	8,636.536	15,510.961	350.308	683.347	1,033.655
MAY 87	6,717.540	8,427.631	15,145.172	308.385	656.594	964.980
JUN 87	7,176.345	8,787.899	15,964.246	284.490	697.512	982.003
JUL 87	7,815.543	8,899.525	16,715.069	334.645	667.920	1,002.566
AUG 87	7,129.225	8,937.447	16,066.673	254.706	666.517	921.224
SEP 87	7,198.659	9,177.143	16,375.804	251.228	654.879	906.108
OCT 87	7,461.387	9,660.221	17,121.609	234.723	628.465	863.189
NOV 87	7,272.962	9,150.552	16,423.515	217.963	591.900	809.864
DEC 87	8,041.262	9,942.116	17,983.379	252.062	575.530	827.593
JAN 88	7,417.234	9,631.981	17,049.216	177.109	579.422	756.532
FEB 88	7,491.568	9,837.350	17,328.919	172.173	583.756	755.930

TABLE 4.2

## NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.

SUPPLEMENTAL REPORT OF COMMON LINE POOL RESULTS  
 REPORTED AS OF APRIL, 1988

PAGE 1 OF 1

## MINUTES OF USE DERIVED FROM N E C A CCL EARNED REVENUES

## NON-TIER 1

(MOU REPORTED IN MILLIONS)

MONTH/YR	PREMIUM CCL MOUS			NONPREMIUM CCL MOUS		
	ORIGINATING	TERMINATING	TOTAL	ORIGINATING	TERMINATING	TOTAL
JUN 84	N/A	N/A	859.674	N/A	N/A	13.297
JUL 84	N/A	N/A	770.946	N/A	N/A	11.163
AUG 84	N/A	N/A	790.615	N/A	N/A	12.723
SEP 84	N/A	N/A	777.390	N/A	N/A	13.593
OCT 84	N/A	N/A	814.183	N/A	N/A	16.579
NOV 84	N/A	N/A	798.958	N/A	N/A	15.879
DEC 84	N/A	N/A	816.048	N/A	N/A	18.959
JAN 85	N/A	N/A	813.399	N/A	N/A	18.231
FEB 85	N/A	N/A	796.366	N/A	N/A	17.952
MAR 85	N/A	N/A	818.509	N/A	N/A	19.248
APR 85	N/A	N/A	840.427	N/A	N/A	20.906
MAY 85	N/A	N/A	850.629	N/A	N/A	21.227
JUN 85	N/A	N/A	901.397	N/A	N/A	24.152
JUL 85	N/A	N/A	883.295	N/A	N/A	24.671
AUG 85	N/A	N/A	927.105	N/A	N/A	24.488
SEP 85	N/A	N/A	903.478	N/A	N/A	24.412
OCT 85	N/A	N/A	903.293	N/A	N/A	23.746
NOV 85	N/A	N/A	899.485	N/A	N/A	23.561
DEC 85	N/A	N/A	918.649	N/A	N/A	23.927
JAN 86	N/A	N/A	901.322	N/A	N/A	21.944
FEB 86	N/A	N/A	866.900	N/A	N/A	26.749
MAR 86	N/A	N/A	925.390	N/A	N/A	26.186
APR 86	N/A	N/A	926.472	N/A	N/A	26.785
MAY 86	N/A	N/A	951.163	N/A	N/A	28.620
JUN 86	366.778	540.556	907.334	10.078	16.957	27.037
JUL 86	394.316	503.346	897.663	10.299	15.643	25.943
AUG 86	398.917	534.196	933.114	11.576	19.259	30.836
SEP 86	392.249	509.120	901.370	12.880	24.521	37.403
OCT 86	404.567	514.676	919.244	11.746	26.062	37.809
NOV 86	396.415	502.319	898.736	12.214	25.644	37.859
DEC 86	412.553	521.292	933.846	11.504	26.520	38.025
JAN 87	450.694	548.490	999.185	14.635	27.247	41.883
FEB 87	402.168	510.712	912.881	12.974	24.744	37.719
MAR 87	419.025	534.713	953.740	11.302	23.497	34.800
APR 87	427.257	545.495	972.753	12.291	23.822	36.115
MAY 87	430.932	544.541	975.474	12.667	26.990	39.658
JUN 87	444.325	552.808	997.134	10.905	27.514	38.420
JUL 87	517.057	589.053	1,106.111	12.590	25.095	37.685
AUG 87	478.841	600.241	1,079.083	10.616	27.881	38.497
SEP 87	445.394	577.982	1,023.377	10.425	27.730	38.156
OCT 87	452.056	585.429	1,037.486	9.789	26.207	35.996
NOV 87	457.371	579.173	1,036.544	11.622	31.562	43.185
DEC 87	488.576	604.070	1,092.647	13.606	31.067	44.674
JAN 88	490.868	636.633	1,127.502	10.097	31.268	41.367
FEB 88	451.217	592.502	1,043.720	8.599	29.163	37.763

TABLE 4.3

## NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.

SUPPLEMENTAL REPORT OF COMMON LINE POOL RESULTS  
 REPORTED AS OF APRIL, 1988

PAGE 1 OF 1

## MINUTES OF USE DERIVED FROM N E C A CCL EARNED REVENUES

## TOTAL COMMON LINE POOL

(MOU REPORTED IN MILLIONS)

MONTH/YR	PREMIUM CCL MOUS			NONPREMIUM CCL MOUS		
	ORIGINATING	TERMINATING	TOTAL	ORIGINATING	TERMINATING	TOTAL
JUN 84	N/A	N/A	14,545.271	N/A	N/A	1,827.007
JUL 84	N/A	N/A	12,566.294	N/A	N/A	1,886.240
AUG 84	N/A	N/A	13,135.947	N/A	N/A	1,911.089
SEP 84	N/A	N/A	12,919.799	N/A	N/A	1,720.966
OCT 84	N/A	N/A	13,161.269	N/A	N/A	2,018.484
NOV 84	N/A	N/A	13,090.910	N/A	N/A	2,010.440
DEC 84	N/A	N/A	13,378.258	N/A	N/A	1,990.827
JAN 85	N/A	N/A	13,115.551	N/A	N/A	2,176.491
FEB 85	N/A	N/A	12,998.244	N/A	N/A	2,182.451
MAR 85	N/A	N/A	13,418.828	N/A	N/A	2,283.537
APR 85	N/A	N/A	13,755.632	N/A	N/A	2,270.295
MAY 85	N/A	N/A	13,810.066	N/A	N/A	2,028.473
JUN 85	N/A	N/A	13,905.208	N/A	N/A	2,295.878
JUL 85	N/A	N/A	14,146.095	N/A	N/A	2,190.388
AUG 85	N/A	N/A	14,586.024	N/A	N/A	1,994.763
SEP 85	N/A	N/A	14,456.980	N/A	N/A	1,974.874
OCT 85	N/A	N/A	15,206.389	N/A	N/A	1,781.234
NOV 85	N/A	N/A	14,285.850	N/A	N/A	1,780.633
DEC 85	N/A	N/A	15,002.159	N/A	N/A	1,767.382
JAN 86	N/A	N/A	15,291.015	N/A	N/A	1,522.729
FEB 86	N/A	N/A	14,691.467	N/A	N/A	1,397.703
MAR 86	N/A	N/A	15,861.035	N/A	N/A	1,348.922
APR 86	N/A	N/A	15,905.442	N/A	N/A	1,300.394
MAY 86	N/A	N/A	16,044.708	N/A	N/A	1,209.560
JUN 86	5,502.052	8,235.425	13,737.478	492.247	830.463	1,322.711
JUL 86	6,345.185	8,100.384	14,445.569	515.665	783.185	1,298.850
AUG 86	6,121.797	8,207.302	14,329.101	430.178	715.826	1,146.005
SEP 86	6,280.584	8,151.926	14,432.512	368.044	700.595	1,068.639
OCT 86	6,754.715	8,456.581	15,211.297	307.775	680.817	988.593
NOV 86	6,434.854	8,112.259	14,547.114	393.327	699.007	1,032.335
DEC 86	6,989.125	8,837.286	15,826.413	294.493	677.416	971.850
JAN 87	7,046.824	8,576.082	15,622.907	351.564	653.694	1,005.259
FEB 87	6,791.255	8,624.117	15,415.373	367.648	700.984	1,068.633
MAR 87	7,438.956	9,494.816	16,933.773	375.519	780.626	1,156.146
APR 87	7,301.681	9,182.031	16,483.714	362.599	707.169	1,069.770
MAY 87	7,148.472	8,972.173	16,120.646	321.052	683.585	1,004.639
JUN 87	7,620.671	9,340.708	16,961.380	295.396	725.027	1,020.424
JUL 87	8,332.600	9,488.578	17,821.179	347.236	693.015	1,040.251
AUG 87	7,608.066	9,537.688	17,145.755	265.322	694.398	959.722
SEP 87	7,644.054	9,755.125	17,399.180	261.654	682.609	944.264
OCT 87	7,913.443	10,245.651	18,159.095	244.512	654.672	899.185
NOV 87	7,730.334	9,729.725	17,460.059	229.586	623.462	853.049
DEC 87	8,529.838	10,546.187	19,076.026	265.669	606.598	872.268
JAN 88	7,908.102	10,268.615	18,176.718	187.207	610.691	797.899
FEB 88	7,942.786	10,429.853	18,372.640	180.773	612.920	793.693

TABLE 4.4

TOTAL TIER I COMPANY  
SUBSCRIBER LINE USAGE MINUTES  
(in 000's)

	LOC SLU	ST SLU	IS SLU	TOT SLU
1980	1,389,390,482	127,274,020	125,135,677	1,641,800,179
1981	1,430,737,151	139,148,130	136,708,633	1,706,593,914
1982	1,482,707,513	146,458,649	143,812,742	1,772,978,904
1983	1,521,797,713	153,489,141	152,715,828	1,828,002,682
1984	1,593,956,652	181,268,005	182,572,697	1,957,797,354
1985	1,627,480,986	198,213,363	217,429,395	2,043,123,744
1986	1,636,046,764	204,120,546	229,182,334	2,069,349,644

GROWTH RATES OF  
TOTAL TIER I COMPANY  
SUBSCRIBER LINE USAGE MINUTES

	LOC SLU	ST SLU	IS SLU	TOT SLU
1981	2.98%	9.33%	9.25%	3.95%
1982	3.63%	5.25%	5.20%	3.89%
1983	2.64%	4.80%	6.19%	3.10%
1984	4.74%	18.10%	19.55%	7.10%
1985	2.10%	9.35%	19.09%	4.36%
1986	0.53%	2.98%	5.41%	1.28%

ANNUALIZED  
GROWTH,  
83/80

3.08%	6.44%	6.86%	3.65%
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ANNUALIZED  
GROWTH,  
86/83

2.44%	9.97%	14.49%	4.22%
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ANNUALIZED  
GROWTH,  
86/80

2.76%	8.19%	10.61%	3.93%
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TABLE 4.5

TOTAL TIER I COMPANY  
DIAL EQUIPMENT MINUTES  
(in 000's)

	LOC DEM	ST DEM	IS DEM	TOT DEM
1980	1,384,198,331	137,213,773	129,748,696	1,651,160,800
1981	1,429,888,745	150,730,261	143,172,697	1,723,791,691
1982	1,479,455,068	159,568,545	154,068,429	1,793,092,046
1983	1,518,924,063	166,014,647	168,227,011	1,853,165,732
1984	1,601,014,334	200,556,574	209,441,159	2,008,502,479
1985	1,626,683,888	226,148,105	251,598,866	2,111,550,943
1986	1,636,145,334	234,183,633	267,996,037	2,138,324,008

GROWTH RATES OF  
TOTAL TIER I COMPANY  
DIAL EQUIPMENT MINUTES

	LOC DEM	ST DEM	IS DEM	TOT DEM
1981	3.30%	9.85%	10.35%	4.40%
1982	3.47%	5.86%	7.61%	4.02%
1983	2.67%	4.04%	9.19%	3.35%
1984	5.40%	20.81%	24.50%	8.38%
1985	1.60%	12.76%	20.13%	5.13%
1986	0.58%	3.55%	6.52%	1.27%
 ANNUALIZED GROWTH, 83/80	 3.14%	 6.56%	 9.04%	 3.92%
 ANNUALIZED GROWTH, 86/83	 2.51%	 12.15%	 16.79%	 4.89%
 ANNUALIZED GROWTH, 86/80	 2.83%	 9.32%	 12.85%	 4.40%

Table 4.6

1984 TIER1 NETWORK USAGE DATA  
MINUTES OF USE (IN THOUSANDS)

PAGE 1

fcode	year	carrier	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
105111	84	NEW ENGLAND TEL.-MAINE	0	0	338459	0	0	5444
115112	84	NEW ENGLAND TEL.-MA	0	0	2401757	0	0	469532
125113	84	NEW ENGLAND TEL.-NH	0	0	539288	0	0	37476
135200	84	SOUTHERN NEW ENGLAND TEL.	0	0	2586854	0	0	582349
145115	84	NEW ENGLAND TEL.-VERMONT	0	0	423508	0	0	46353
150096	84	CONTEL-NEW YORK	0	0	100217	0	0	60
150121	84	ROCHESTER	0	0	248079	0	0	0
155130	84	NEW YORK TEL. CO.	0	0	6602341	0	0	961666
160138	84	UNITED TEL.-NEW JERSEY	0	0	0	0	0	0
165120	84	NEW JERSEY BELL	0	0	5060287	0	0	601158
170169	84	GTE NORTH-PA	0	0	236429	0	0	35287
170209	84	UNITED TEL.-PA	0	0	141088	0	0	6900
175000	84	BELL OF PENNSYLVANIA	0	0	3553213	0	0	706369
185030	84	C&P OF MARYLAND	0	0	1902384	0	0	206025
190233	84	CONTEL-VIRGINIA	0	0	224584	0	0	14172
190254	84	CENTEL-VIRGINIA	0	0	137755	0	0	0
190479	84	GTE SOUTH-VIRGINIA	0	0	2300	0	0	0
190567	84	UNITED INTER-MOUNTAIN-VA	0	0	50838	0	0	205
195040	84	C&P OF VIRGINIA	0	0	1996252	0	0	164435
200479	84	GTE SOUTH-WEST VIRGINIA	0	0	55589	0	0	1730
205050	84	C&P OF WEST VIRGINIA	0	0	555000	0	0	26712
210328	84	GTE OF FLORIDA	0	0	1119363	0	0	88138
210340	84	CENTEL OF FLORIDA	0	0	292418	0	0	9532
210341	84	UNITED TEL.-FLORIDA	0	0	570662	0	0	831
215191	84	SOUTHERN BELL-FLORIDA	0	0	5285203	0	0	990744
220479	84	GTE SOUTH-GEORGIA	0	0	104185	0	0	720
225192	84	SOUTHERN BELL-GEORGIA	0	0	3426576	0	0	539969
230470	84	CAROLINA TELEPHONE & TEL. CO.	0	0	540407	0	0	3075
230471	84	CENTEL-NORTH CAROLINA	0	0	103702	0	0	0
230479	84	GTE SOUTH-NORTH CAROLINA	0	0	117409	0	0	6374
235193	84	SOUTHERN BELL-NORTH CAROLINA	0	0	1712786	0	0	221402
240479	84	GTE SOUTH-SOUTH CAROLINA	0	0	117293	0	0	779
240506	84	UNITED OF THE CAROLINAS	0	0	0	0	0	0
245194	84	SOUTHERN BELL-SOUTH CAROLINA	0	0	1243077	0	0	148717
250293	84	GTE SOUTH-ALABAMA	0	0	93031	0	0	170
255181	84	SOUTH CENTRAL BELL-ALABAMA	0	0	1609527	0	0	148667
260407	84	GTE SOUTH-KENTUCKY	0	0	220256	0	0	32035
265061	84	CINCINNATI BELL-KENTUCKY	0	0	6562	0	0	1786
265182	84	SOUTH CENTRAL BELL-KENTUCKY	0	0	929188	0	0	84997
275183	84	SOUTH CENTRAL BELL-LOUISIANA	0	0	1966704	0	0	308327
285184	84	SOUTH CENTRAL BELL-MISSISSIPPI	0	0	1162695	0	0	63726
290479	84	GTE SOUTH-TENNESSEE	0	0	29504	0	0	99
290567	84	UNITED INTER-MOUNTAIN-TN	0	0	115964	0	0	3716
295185	84	SOUTH CENTRAL BELL-TENNESSEE	0	0	2217766	0	0	396550
300615	84	GTE NORTH-OHIO	0	0	321395	0	0	13513
300630	84	CENTEL-OHIO	0	0	35168	0	0	0
300661	84	UNITED TEL.-OHIO	0	0	239547	0	0	9249
305062	84	CINCINNATI BELL-OHIO	0	0	4491	0	0	1275
305150	84	OHIO BELL	0	0	1625345	0	0	420928
310695	84	GTE NORTH-MICHIGAN	0	0	233809	0	0	3934
315090	84	MICHIGAN BELL	0	0	1731593	0	0	261419



Table 4.6

1984 TIER1 NETWORK USAGE DATA  
MINUTES OF USE (IN THOUSANDS)

PAGE 2

fcode	year	carrier	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
320772	84	GTE NORTH-INDIANA	0	0	463646	0	0	43888
320832	84	UNITED TEL.-INDIANA	0	0	105413	0	0	155
325080	84	INDIANA BELL	0	0	924809	0	0	169984
330886	84	GTE NORTH-WISCONSIN	0	0	180604	0	0	462
335220	84	WISCONSIN BELL	0	0	857288	0	0	188431
340985	84	CENTEL-ILLINOIS	0	0	158516	0	0	0
341015	84	GTE NORTH-ILLINOIS	0	0	323726	0	0	2380
345070	84	ILLINOIS BELL	0	0	3196894	0	0	545504
351186	84	GTE NORTH-IOWA	0	0	59735	0	0	433
351317	84	UNITED TEL.-IOWA	0	0	0	0	0	0
355141	84	US WEST-IOWA	0	0	596801	0	0	110862
361186	84	GTE NORTH-MN	0	0	1747	0	0	0
361367	84	CENTEL-MN	0	0	67550	0	0	0
361456	84	UNITED TEL.-MINNESOTA	0	0	0	0	0	0
365142	84	US WEST-MINNESOTA	0	0	924481	0	0	215995
371186	84	GTE NORTH-NEBRASKA	0	0	26055	0	0	0
371568	84	LINCOLN TEL. & TEL.	0	0	115381	0	0	10657
371595	84	UNITED TEL.-NEBRASKA	0	0	0	0	0	0
375143	84	US WEST-NEBRASKA	0	0	368534	0	0	48855
385144	84	US WEST-NORTH DAKOTA	0	0	190821	0	0	6840
395145	84	US WEST-SOUTH DAKOTA	0	0	204466	0	0	6363
401728	84	UNITED TEL.-ARKANSAS	0	0	0	0	0	0
402080	84	GTE SOUTHWEST-ARKANSAS	0	0	47461	0	0	0
405211	84	SWB-ARKANSAS	0	0	591342	0	0	56851
411842	84	UNITED TEL.-KANSAS	0	0	0	0	0	0
415214	84	SWB-KANSAS	0	0	806397	0	0	104654
421186	84	GTE NORTH-MISSOURI	0	0	62565	0	0	2003
421957	84	UNITED TEL.-MO	0	0	0	0	0	0
425213	84	SWB-MISSOURI	0	0	1501246	0	0	361741
432080	84	GTE SOUTHWEST-OKLAHOMA	0	0	70746	0	0	1340
435215	84	SWB-OKLAHOMA	0	0	1052473	0	0	200274
442080	84	GTE SOUTHWEST-TEXAS	0	0	511831	0	0	26674
442084	84	UNITED TEL.-TEXAS	0	0	0	0	0	0
442114	84	CENTEL-TEXAS	0	0	74620	0	0	728
442154	84	CONTEL-TEXAS	0	0	53689	0	0	0
445216	84	SWB-TEXAS	0	0	3823803	0	0	833728
455101	84	US WEST-ARIZONA	0	0	1248835	0	0	189190
465102	84	US WEST-COLORADO	0	0	1485826	0	0	272966
472416	84	GTE NORTHWEST-IDAHO	0	0	101249	0	0	765
475103	84	US WEST-IDAHO-MB	0	0	275264	0	0	21380
475162	84	US WEST-IDAHO-PNB	0	0	21684	0	0	0
482416	84	GTE NORTHWEST-MONTANA	0	0	6745	0	0	0
485104	84	US WEST-MONTANA	0	0	230788	0	0	2627
492080	84	GTE SOUTHWEST-NEW MEXICO	0	0	45453	0	0	35
495105	84	US WEST-NEW MEXICO	0	0	460109	0	0	24401
505107	84	US WEST-UTAH	0	0	514897	0	0	156206
511595	84	UNITED TEL.-WYOMING	0	0	0	0	0	0
515108	84	US WEST-WYOMING	0	0	238278	0	0	17999
522400	84	UNITED TEL.-NW-WA	0	0	0	0	0	0
522416	84	GTE NORTHWEST-WASHINGTON	0	0	300527	0	0	5928
525161	84	US WEST-WASHINGTON	0	0	1071908	0	0	138905

Table 4.6

1984 TIER1 NETWORK USAGE DATA  
MINUTES OF USE (IN THOUSANDS)

PAGE 3

fcode	year	carrier	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
532400	84	UNITED TEL.-NW-OR	0	0	0	0	0	0
532416	84	GTE NORTHWEST-OREGON	0	0	198275	0	0	3868
535163	84	US WEST-OREGON	0	0	672886	0	0	99617
542302	84	CONTEL-CALIFORNIA	0	0	108505	0	0	0
542319	84	GTE OF CALIFORNIA	0	0	1391294	0	0	40299
542344	84	GTE NORTHWEST-CALIFORNIA	0	0	4882	0	0	3900
545170	84	PACIFIC BELL	0	0	6037771	0	0	1564870
552348	84	CENDEL-NV	0	0	655131043	0	0	46540406
555173	84	NEVADA BELL	0	0	263382	0	0	18964
565010	84	DIAMOND STATE TELEPHONE	0	0	419496	0	0	41184
575020	84	C&P OF WASHINGTON, D.C.	0	0	828793	0	0	334462
585114	84	NEW ENGLAND TEL.-RHODE ISLAND	0	0	219692	0	0	1693
623100	84	GTE HAWAIIAN TELCO	0	0	315891	0	0	27096
633201	84	PUERTO RICO TELEPHONE CO.	0	0	253348	0	0	0
999111	84	ALL OTHER COST COMPANIES	2979246	3511350	6490597	221029	152656	373685

Table 4.7  
 1985 TIER1 NETWORK USAGE DATA  
 MINUTES OF USE (IN THOUSANDS)

fcode	year	carrier	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
105111	85	NEW ENGLAND TEL.-MAINE	0	0	716114	0	0	29864
115112	85	NEW ENGLAND TEL.-MA	0	0	5207022	0	0	884651
125113	85	NEW ENGLAND TEL.-NH	0	0	1163692	0	0	84186
135200	85	SOUTHERN NEW ENGLAND TEL.	0	0	2760890	0	0	706043
145115	85	NEW ENGLAND TEL.-VERMONT	0	0	459297	0	0	15668
150096	85	CONTEL-NEW YORK	0	0	209570	0	0	204
150121	85	ROCHESTER	0	0	586544	0	0	0
155130	85	NEW YORK TELEPHONE	0	0	14140890	0	0	1916404
160138	85	UNITED TEL.-NEW JERSEY	0	0	0	0	0	0
165120	85	NEW JERSEY BELL	0	0	8936246	0	0	1307739
170169	85	GTE NORTH-PA	0	0	429847	0	0	72573
170209	85	UNITED TEL.-PA	0	0	270186	0	0	5994
175000	85	BELL OF PENNSYLVANIA	0	0	6295215	0	0	1060370
185030	85	C&P OF MARYLAND	0	0	3361972	0	0	339541
190233	85	CONTEL-VIRGINIA	0	0	414647	0	0	29408
190254	85	CENDEL-VIRGINIA	0	0	206374	0	0	0
190479	85	GTE SOUTH-VIRGINIA	0	0	41885	0	0	197
190567	85	UNITED INTER-MOUNTAIN-VA	0	0	93602	0	0	894
195040	85	C&P OF VIRGINIA	0	0	3847304	0	0	515738
200479	85	GTE SOUTH-WEST VIRGINIA	0	0	109521	0	0	550
205050	85	C&P OF WEST VIRGINIA	0	0	885149	0	0	66049
210328	85	GTE OF FLORIDA	0	0	2150763	0	0	213257
210340	85	CENDEL OF FLORIDA	0	0	329038	0	0	16900
210341	85	UNITED TEL.-FLORIDA	0	0	1193257	0	0	10017
215191	85	SOUTHERN BELL-FLORIDA	0	0	6119290	0	0	1090533
220479	85	GTE SOUTH-GEORGIA	0	0	205742	0	0	10012
225192	85	SOUTHERN BELL-GEORGIA	0	0	4295238	0	0	658028
230470	85	CAROLINA TELEPHONE & TELEGRAPH	0	0	989993	0	0	16867
230471	85	CENDEL-NORTH CAROLINA	0	0	151945	0	0	0
230479	85	GTE SOUTH-NORTH CAROLINA	0	0	205674	0	0	34019
235193	85	SOUTHERN BELL-NORTH CAROLINA	0	0	2111569	0	0	375449
240479	85	GTE SOUTH-SOUTH CAROLINA	0	0	216704	0	0	15551
240506	85	UNITED OF THE CAROLINAS	0	0	0	0	0	0
245194	85	SOUTHERN BELL-SOUTH CAROLINA	0	0	1374488	0	0	242877
250293	85	GTE SOUTH-ALABAMA	0	0	177839	0	0	1665
255181	85	SOUTH CENTRAL BELL-ALABAMA	0	0	1872556	0	0	173867
260407	85	GTE SOUTH-KENTUCKY	0	0	405208	0	0	60475
265061	85	CINCINNATI BELL-KENTUCKY	0	0	129810	0	0	2302
265182	85	SOUTH CENTRAL BELL-KENTUCKY	0	0	1154402	0	0	94042
275183	85	SOUTH CENTRAL BELL-LOUISIANA	0	0	2293235	0	0	302563
285184	85	SOUTH CENTRAL BELL-MISSISSIPPI	0	0	1401743	0	0	72834
290479	85	GTE SOUTH-TENNESSEE	0	0	58436	0	0	2452
290567	85	UNITED INTER-MOUNTAIN-TN	0	0	226281	0	0	16162
295185	85	SOUTH CENTRAL BELL-TENNESSEE	0	0	2752040	0	0	421043
300615	85	GTE NORTH-OHIO	0	0	629237	0	0	24465
300630	85	CENDEL-OHIO	0	0	51804	0	0	0
300661	85	UNITED TEL.-OHIO	0	0	455084	0	0	19156
305062	85	CINCINNATI BELL-OHIO	0	0	867586	0	0	160471
305150	85	OHIO BELL	0	0	3532238	0	0	857196
310695	85	GTE NORTH-MICHIGAN	0	0	438452	0	0	14797
315090	85	MICHIGAN BELL	0	0	3643325	0	0	858952

Table 4.7

1985 TIER1 NETWORK USAGE DATA  
MINUTES OF USE (IN THOUSANDS)

PAGE 2

fcode	year	carrier	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
320772	85	GTE NORTH-INDIANA	0	0	792211	0	0	85049
320832	85	UNITED TEL.-INDIANA	0	0	191806	0	0	509
325080	85	INDIANA BELL	0	0	2071991	0	0	394249
330886	85	GTE NORTH-WISCONSIN	0	0	346613	0	0	2699
335220	85	WISCONSIN BELL	0	0	1967319	0	0	267801
340985	85	CENDEL-ILLINOIS	0	0	258648176	0	0	0
341015	85	GTE NORTH-ILLINOIS	0	0	621654	0	0	18614
345070	85	ILLINOIS BELL	0	0	6758397	0	0	1150744
351186	85	GTE NORTH-IOWA	0	0	113155	0	0	470
351317	85	UNITED TEL.-IOWA	0	0	0	0	0	0
355141	85	US WEST-IOWA	0	0	1412754	0	0	301734
361186	85	GTE NORTH-MN	0	0	3060	0	0	0
361367	85	CENDEL-MN	0	0	674479	0	0	0
361456	85	UNITED TEL.-MINNESOTA	0	0	0	0	0	0
365142	85	US WEST-MINNESOTA	0	0	2425063	0	0	262401
371186	85	GTE NORTH-NEBRASKA	0	0	45957	0	0	1248
371568	85	LINCOLN TEL. & TEL.	0	0	249541	0	0	36100
371595	85	UNITED TEL.-NEBRASKA	0	0	0	0	0	0
375143	85	US WEST-NEBRASKA	0	0	890952	0	0	66488
385144	85	US WEST-NORTH DAKOTA	0	0	410352	0	0	33606
395145	85	US WEST-SOUTH DAKOTA	0	0	461669	0	0	40792
401728	85	UNITED TEL.-ARKANSAS	0	0	0	0	0	0
402080	85	GTE SOUTHWEST-ARKANSAS	0	0	86081	0	0	0
405211	85	SWB-ARKANSAS	0	0	1050164	0	0	124749
411842	85	UNITED TEL.-KANSAS	0	0	0	0	0	0
415214	85	SWB-KANSAS	0	0	1546025	0	0	147247
421186	85	GTE NORTH-MISSOURI	0	0	115045	0	0	19277
421957	85	UNITED TEL.-MO	0	0	0	0	0	0
425213	85	SWB-MISSOURI	0	0	2796393	0	0	674174
432080	85	GTE SOUTHWEST-OKLAHOMA	0	0	130180	0	0	15
435215	85	SWB-OKLAHOMA	0	0	1893190	0	0	267989
442080	85	GTE SOUTHWEST-TEXAS	0	0	974868	0	0	49434
442084	85	UNITED TEL.-TEXAS	0	0	0	0	0	0
442114	85	CENDEL-TEXAS	0	0	164066	0	0	0
442154	85	CONTEL-TEXAS	0	0	104623	0	0	0
445216	85	SWB-TEXAS	0	0	7296957	0	0	1616746
455101	85	US WEST-ARIZONA	0	0	2705941	0	0	429343
465102	85	US WEST-COLORADO	0	0	3212930	0	0	460794
472416	85	GTE NORTHWEST-IDAHO	0	0	177189	0	0	3414
475103	85	US WEST-IDAHO	0	0	624912	0	0	51569
475162	85	US WEST-IDAHO-PNB	0	0	43759	0	0	261
482416	85	GTE NORTHWEST-MONTANA	0	0	10953	0	0	20
485104	85	US WEST-MONTANA	0	0	517339	0	0	56292
492080	85	GTE SOUTHWEST-NEW MEXICO	0	0	80127	0	0	7
495105	85	US WEST-NEW MEXICO	0	0	909062	0	0	173348
505107	85	US WEST-UTAH	0	0	996070	0	0	222444
511595	85	UNITED TEL.-WYOMING	0	0	0	0	0	0
515108	85	US WEST-WYOMING	0	0	490735	0	0	50960
522400	85	UNITED TEL.-NW-WA	0	0	0	0	0	0
522416	85	GTE NORTHWEST-WASHINGTON	0	0	556645	0	0	32644
525161	85	US WEST-WASHINGTON	0	0	2411592	0	0	341360

Table 4.7  
 1985 TIER1 NETWORK USAGE DATA  
 MINUTES OF USE (IN THOUSANDS)

fcode	year	carrier	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
532400	85	UNITED TEL.-NW-OR	0	0	0	0	0	0
532416	85	GTE NORTHWEST-OREGON	0	0	360674	0	0	10297
535163	85	US WEST-OREGON	0	0	1498165	0	0	307567
542302	85	CONTEL-CALIFORNIA	0	0	197045	0	0	630
542319	85	GTE OF CALIFORNIA	0	0	2577873	0	0	115109
542344	85	GTE NORTHWEST-CALIFORNIA	0	0	8603	0	0	0
545170	85	PACIFIC BELL	0	0	10959	0	0	2918309
552348	85	CENTEL-NV	0	0	805887	0	0	31611
555173	85	NEVADA BELL	0	0	418847	0	0	43631
565010	85	DIAMOND STATE TELEPHONE	0	0	791315	0	0	90366
575020	85	C&P OF WASHINGTON D.C.	0	0	1415088	0	0	670881
585114	85	NEW ENGLAND TEL.-RHODE ISLAND	0	0	792642	0	0	115810
623100	85	GTE HAWAIIAN TELCO	0	0	565602	0	0	77836
633201	85	PUERTO RICO TELEPHONE CO.	0	0	507069	0	0	0
999111	85	ALL OTHER COST COMPANIES	3602	4212	7814	267	184	452

Table 4.8  
1986 TIER1 NETWORK USAGE DATA  
MINUTES OF USE (IN THOUSANDS)

fcode	year	carrier	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
105111	86	NEW ENGLAND TEL.-MAINE	195889	254271	747527	2488	21644	44872
115112	86	NEW ENGLAND TEL.-MA	1446188	1793143	5688579	60586	154963	382264
125113	86	NEW ENGLAND TEL.-NH	339916	420404	1290778	4734	35852	67736
135200	86	SOUTHERN NEW ENGLAND TEL.	1295441	1704262	2999703	223622	437055	660677
145115	86	NEW ENGLAND TEL.-VERMONT	126996	170538	520872	857	18242	29027
150096	86	CONTEL-NEW YORK	59785	83192	234380	403	3267	3825
150121	86	ROCHESTER	118060	160594	475546	19721	19957	101577
155130	86	NEW YORK TELEPHONE	3986371	4595546	15048490	179553	557693	1298447
160138	86	UNITED TEL.-NEW JERSEY	0	0	0	0	0	0
165120	86	NEW JERSEY BELL	2362342	3093095	9511902	105540	208690	675264
170169	86	GTE NORTH-PA	121532	158461	462944	18432	13997	59498
170209	86	UNITED TEL.-PA	68719	91471	273377	2863	1904	8875
175000	86	BELL OF PENNSYLVANIA	1637436	2445112	7170998	61670	136101	422473
185030	86	C&P OF MARYLAND	895673	1257710	3589692	65623	127551	332881
190233	86	CONTEL-VIRGINIA	113013	181707	478969	7161	9928	29629
190254	86	CENTEL-VIRGINIA	97333	133368	230701	6906	9462	16368
190479	86	GTE SOUTH-VIRGINIA	8617	13527	40339	723	582	1347
190567	86	UNITED INTER-MOUNTAIN-VA	24787	33614	97228	25	202	618
195040	86	C&P OF VIRGINIA	1095633	1304594	4010857	29407	78343	198284
200479	86	GTE SOUTH-WEST VIRGINIA	28058	37850	112308	1388	1005	2473
205050	86	C&P OF WEST VIRGINIA	200099	333285	914837	5958	29030	60519
210328	86	GTE OF FLORIDA	565082	704771	2308547	46221	80659	233387
210340	86	CENTEL OF FLORIDA	76938	103546	354626	11342	14230	33654
210341	86	UNITED TEL.-FLORIDA	320107	381743	1287018	18422	25427	61121
215191	86	SOUTHERN BELL-FLORIDA	1711393	2143492	6836459	173753	105394	547129
220479	86	GTE SOUTH-GEORGIA	45581	67191	195911	626	144	3506
225192	86	SOUTHERN BELL-GEORGIA	1098717	1407240	4544788	91055	59918	309848
230470	86	CAROLINA TELEPHONE & TELEGRAPH	272116	356041	1084686	2655	15231	31753
230471	86	CENTEL-NORTH CAROLINA	59367	100868	160235	1796	3051	4846
230479	86	GTE SOUTH-NORTH CAROLINA	51669	72231	210160	1817	806	10842
235193	86	SOUTHERN BELL-NORTH CAROLINA	515727	802174	2358553	58960	58967	236116
240479	86	GTE SOUTH-SOUTH CAROLINA	65125	72208	216888	784	1528	6966
240506	86	UNITED OF THE CAROLINAS	0	0	0	0	0	0
245194	86	SOUTHERN BELL-SOUTH CAROLINA	381772	50678	1541386	55358	45131	191345
250293	86	GTE SOUTH-ALABAMA	46410	57789	179807	1355	84	5577
255181	86	SOUTH CENTRAL BELL-ALABAMA	449667	658405	1951816	19838	59651	131380
260407	86	GTE SOUTH-KENTUCKY	95419	146002	413174	12139	12909	44127
265061	86	CINCINNATI BELL-KENTUCKY	31066	44785	136438	1151	1832	5405
265182	86	SOUTH CENTRAL BELL-KENTUCKY	290315	400688	1218852	13287	44130	93775
275183	86	SOUTH CENTRAL BELL-LOUISIANA	565704	771105	2349509	46481	73661	202039
285184	86	SOUTH CENTRAL BELL-MISSISSIPPI	350064	498614	1464634	11017	50079	94922
290479	86	GTE SOUTH-TENNESSEE	13003	18302	53942	68	168	1096
290567	86	UNITED INTER-MOUNTAIN-TN	51655	77940	225062	5296	8481	21007
295185	86	SOUTH CENTRAL BELL-TENNESSEE	658977	914523	2821160	44777	80446	211096
300615	86	GTE NORTH-OHIO	149520	205644	641568	3816	1333	12661
300630	86	CENTEL-OHIO	10700	16651	27351	0	0	0
300661	86	UNITED TEL.-OHIO	99225	156848	449675	9439	10853	29304
305062	86	CINCINNATI BELL-OHIO	173990	275151	837152	41289	60168	173668
305150	86	OHIO BELL	716286	1342844	3840317	109625	160020	481204
310695	86	GTE NORTH-MICHIGAN	110053	142034	439775	3057	1949	9520
315090	86	MICHIGAN BELL	1060386	1366936	4316837	68357	142420	401008

Table 4.8

1986 TIER1 NETWORK USAGE DATA  
MINUTES OF USE (IN THOUSANDS)

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fcode	year	carrier	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
320772	86	GTE NORTH-INDIANA	182341	265118	809428	19538	17158	66254
320832	86	UNITED TEL.-INDIANA	45642	64905	193378	351	184	671
325080	86	INDIANA BELL	500092	697088	2138219	23657	68623	177599
330886	86	GTE NORTH-WISCONSIN	84608	122043	366143	3218	1973	6896
335220	86	WISCONSIN BELL	451435	769486	2136917	21516	75008	160066
340985	86	CENDEL-ILLINOIS	48584	85878	13446	0	0	0
341015	86	GTE NORTH-ILLINOIS	150230	200179	614503	7124	5317	27232
345070	86	ILLINOIS BELL	1745498	232344	7060190	62879	142404	471671
351186	86	GTE NORTH-IOWA	27073	42581	120769	20	18	38
351317	86	UNITED TEL.-IOWA	0	0	0	0	0	0
355141	86	US WEST-IOWA	353652	442935	1345124	69601	87134	253005
361186	86	GTE NORTH-MN	929	1049	3326	0	0	0
361367	86	CENDEL-MN	30121	44190	74611	503	0	503
361456	86	UNITED TEL.-MINNESOTA	0	0	0	0	0	0
365142	86	US WEST-MINNESOTA	505976	772424	2391671	19346	39071	120050
371186	86	GTE NORTH-NEBRASKA	10679	17110	47451	0	0	151
371568	86	LINCOLN TEL. & TEL.	55851	72271	233633	8079	21791	51414
371595	86	UNITED TEL.-NEBRASKA	0	0	0	0	0	0
375143	86	US WEST-NEBRASKA	166629	269233	831476	11609	21940	60726
385144	86	US WEST-NORTH DAKOTA	91435	142619	425802	2764	13346	31062
395145	86	US WEST-SOUTH DAKOTA	99338	133050	421761	11049	22030	66116
401728	86	UNITED TEL.-ARKANSAS	0	0	0	0	0	0
402080	86	GTE SOUTHWEST-ARKANSAS	21875	27541	83686	0	0	0
405211	86	SWB-ARKANSAS	208233	306390	1076267	7289	42552	106536
411842	86	UNITED TEL.-KANSAS	0	0	0	0	0	0
415214	86	SWB-KANSAS	332336	440754	1614855	14177	39065	110328
421186	86	GTE NORTH-MISSOURI	28474	43608	124678	1454	8535	13764
421957	86	UNITED TEL.-MO	0	0	0	0	0	0
425213	86	SWB-MISSOURI	540201	888216	2995721	30539	68081	294447
432080	86	GTE SOUTHWEST-OKLAHOMA	35898	41851	133661	0	6	1889
435215	86	SWB-OKLAHOMA	407231	555314	1982126	16373	43263	144338
442080	86	GTE SOUTHWEST-TEXAS	290627	332656	1060719	2497	17073	33900
442084	86	UNITED TEL.-TEXAS	0	0	0	0	0	0
442114	86	CENDEL-TEXAS	54297	51076	176346	3434	0	6065
442154	86	CONTEL-TEXAS	29358	34995	109982	63	120	183
445216	86	SWB-TEXAS	1656470	2237796	8081222	177415	219827	855826
455101	86	US WEST-ARIZONA	777343	967302	3067793	34580	22716	128541
465102	86	US WEST-COLORADO	827501	1074501	3479867	51201	46440	296974
472416	86	GTE NORTHWEST-IDAHO	45020	55808	169379	1812	2214	6042
475103	86	US WEST-IDAHO	130988	181865	570597	5236	12159	29732
475162	86	US WEST-IDAHO-PNB	10712	10906	40674	3	152	269
482416	86	GTE NORTHWEST-MONTANA	3129	3787	11614	3	0	3
485104	86	US WEST-MONTANA	102078	169418	503342	2371	8744	16473
492080	86	GTE SOUTHWEST-NEW MEXICO	20395	20646	71768	0	114	259
495105	86	US WEST-NEW MEXICO	264414	321846	998285	10465	18251	58394
505107	86	US WEST-UTAH	246777	401930	1196013	15004	17984	65662
511595	86	UNITED TEL.-WYOMING	0	0	0	0	0	0
515108	86	US WEST-WYOMING	131574	155908	502542	1951	8328	26282
522400	86	UNITED TEL.-NW-WA	0	0	0	0	0	0
522416	86	GTE NORTHWEST-WASHINGTON	142081	180057	558471	9933	4322	24979
525161	86	US WEST-WASHINGTON	646210	812086	2548168	34475	79944	245030

Table 4.8

1986 TIER1 NETWORK USAGE DATA  
MINUTES OF USE (IN THOUSANDS)

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fcode	year	carrier	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
532400	86	UNITED TEL.-NW-OR	0	0	0	0	0	0
532416	86	GTE NORTHWEST-OREGON	84318	120244	359573	10977	11536	31659
535163	86	US WEST-OREGON	369089	536606	1606779	18736	58243	156530
542302	86	CONTEL-CALIFORNIA	62478	66772	217888	1139	526	1995
542319	86	GTE OF CALIFORNIA	747543	803784	2643039	23649	54121	124756
542344	86	GTE NORTHWEST-CALIFORNIA	2602	2945	9596	0	0	0
545170	86	PACIFIC BELL	3297692	3750775	12362798	177841	459752	1255136
552348	86	CENDEL-NV	415934	419960	835893	5752	7151	12903
555173	86	NEVADA BELL	220687	237645	458332	8843	19346	28189
565010	86	DIAMOND STATE TELEPHONE	211653	297375	895784	5844	2871	42508
575020	86	C&P OF WASHINGTON D.C.	295469	653453	1662841	38663	80222	254548
585114	86	NEW ENGLAND TEL.-RHODE ISLAND	257064	307076	970081	8778	21337	48770
623100	86	GTE HAWAIIAN TELCO	166242	200704	629366	25665	41471	91522
633201	86	PUERTO RICO TELEPHONE CO.	281575	301131	582705	0	2452	2452
999111	86	ALL OTHER COST COMPANIES	3904	4448	8352	302	207	509



TABLE 4.9

LOCAL SUBSCRIBER LINE USAGE MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
NEW ENGLAND TEL.-MAINE	4,513,528	4,642,356	4,771,184	4,882,278	5,002,057	4,792,715	4,952,286
NEW ENGLAND TEL.-MA	38,574,742	39,716,541	40,858,339	41,506,206	43,380,280	43,612,379	43,012,985
NEW ENGLAND TEL.-NH	4,118,325	4,249,991	4,381,658	4,489,644	4,910,858	4,976,892	5,020,098
SOUTHERN NEW ENGLAND TEL.	19,561,769	19,610,582	19,865,915	20,192,605	20,587,843	21,232,702	22,952,746
NEW ENGLAND TEL.-VERMONT	1,981,366	2,116,238	2,251,110	2,355,182	2,355,504	2,319,250	2,296,468
COMTEL-NEW YORK	1,494,484	1,586,260	1,624,649	1,672,416	1,720,660	1,763,524	1,816,248
ROCHESTER	0	0	0	0	5,719,806	5,939,486	5,981,000
NEW YORK TELEPHONE	110,824,494	115,844,691	119,478,434	125,487,260	135,170,650	143,167,334	144,528,735
UNITED TEL.-NEW JERSEY	0	571,372	583,045	602,626	663,416	737,315	678,308
NEW JERSEY BELL	44,712,272	46,131,631	45,646,398	46,076,798	47,181,128	46,150,813	45,781,592
GTE NORTH-PA	170,843	182,730	201,418	225,167	4,955,785	5,168,627	5,419,644
UNITED TEL.-PA	2,242,979	2,331,149	2,345,184	2,391,406	2,554,047	2,587,573	2,618,311
BELL OF PENNSYLVANIA	66,682,148	68,624,448	70,476,803	70,438,228	69,276,567	66,363,106	70,331,698
C&P OF MARYLAND	36,679,689	38,385,402	40,441,811	41,645,800	41,732,435	40,546,858	41,880,385
COMTEL-VIRGINIA	0	2,251,776	2,375,104	2,468,393	2,843,493	3,057,223	3,256,535
CENTEL-VIRGINIA	1,945,582	2,020,015	2,160,976	2,209,046	2,145,700	2,325,941	2,363,793
GTE SOUTH-VIRGINIA	412,819	413,641	456,669	436,727	439,999	546,017	449,467
UNITED INTER-MOUNTAIN-WA	1,130,721	1,130,762	1,138,486	1,175,083	1,034,421	963,562	970,859
C&P OF VIRGINIA	29,944,105	30,184,710	31,180,863	32,660,689	33,560,021	34,510,494	35,823,722
GTE SOUTH-WEST VIRGINIA	699,587	695,095	795,622	783,651	789,880	959,797	784,196
C&P OF WEST VIRGINIA	10,095,256	10,245,289	10,164,221	10,216,428	10,279,221	10,301,471	10,259,219
GTE OF FLORIDA	10,845,434	11,193,700	12,658,949	13,515,828	14,291,318	15,544,596	16,479,556
CENTEL OF FLORIDA	1,648,642	1,794,326	1,824,101	1,959,810	2,132,983	2,212,019	2,265,428
UNITED TEL.-FLORIDA	0	5,333,613	5,784,159	5,961,057	6,527,727	6,980,705	7,581,921
SOUTHERN BELL-FLORIDA	43,352,390	44,564,977	46,656,950	49,277,897	50,981,248	52,305,309	52,769,241
GTE SOUTH-GEORGIA	1,834,390	2,014,531	2,092,251	2,167,173	2,168,934	2,744,583	2,349,948
SOUTHERN BELL-GEORGIA	36,244,370	36,938,993	36,956,261	39,128,107	41,879,083	43,161,141	43,956,605
CAROLINA TELEPHONE & TELEGRAPH	7,388,362	7,445,685	7,764,256	8,023,080	8,571,746	8,814,110	8,988,269
CENTEL-NORTH CAROLINA	1,898,366	1,956,614	2,035,657	2,115,755	2,184,700	2,280,917	2,342,276
GTE SOUTH-NORTH CAROLINA	1,274,528	1,397,960	1,497,256	1,570,288	1,680,628	2,176,461	1,657,849
SOUTHERN BELL-NORTH CAROLINA	19,080,388	19,108,284	19,288,338	19,696,302	21,480,822	22,590,386	23,546,030
GTE SOUTH-SOUTH CAROLINA	1,191,603	1,335,970	1,315,234	1,371,120	1,497,350	1,933,975	1,558,436
UNITED OF THE CAROLINAS	690,751	716,262	710,948	753,991	741,018	792,722	828,202
SOUTHERN BELL-SOUTH CAROLINA	14,855,959	14,763,559	15,085,487	15,396,999	16,448,376	17,245,819	17,718,278
GTE SOUTH-ALABAMA	1,078,960	1,244,812	1,345,156	1,347,123	1,391,548	1,754,821	1,414,697
SOUTH CENTRAL BELL-ALABAMA	22,105,838	22,581,787	23,138,321	24,106,964	24,632,119	25,155,895	25,966,980
GTE SOUTH-KENTUCKY	3,025,422	3,775,210	3,803,491	3,901,436	4,088,526	5,449,504	4,270,038
CINCINNATI BELL-KENTUCKY	2,179,524	2,204,676	2,245,622	2,258,411	2,277,416	2,336,532	2,326,071
SOUTH CENTRAL BELL-KENTUCKY	14,542,898	14,554,468	14,748,592	14,849,949	15,655,339	15,945,514	15,159,806
SOUTH CENTRAL BELL-LOUISIANA	29,161,404	30,897,013	32,373,556	32,950,113	32,796,721	32,421,145	31,905,656
SOUTH CENTRAL BELL-MISSISSIPPI	12,731,693	12,758,972	13,298,224	13,561,685	13,919,405	14,861,844	14,787,183
GTE SOUTH-TENNESSEE	549,278	543,096	559,708	549,240	567,873	726,300	609,730
UNITED INTER-MOUNTAIN-TN	2,276,145	2,336,028	2,306,390	2,328,409	2,280,291	2,353,250	2,459,811
SOUTH CENTRAL BELL-TENNESSEE	29,694,880	29,113,801	29,793,836	30,038,453	31,137,621	32,352,780	33,664,863
GTE NORTH-OHIO	5,702,847	6,456,432	6,573,991	6,660,339	7,090,769	8,958,897	7,506,384
CENTEL-OHIO	0	730,097	695,136	704,671	739,714	737,061	719,122
UNITED TEL.-OHIO	4,068,201	4,167,892	4,212,345	4,149,962	4,325,047	4,455,340	4,684,380
CINCINNATI BELL-OHIO	11,370,809	11,024,703	11,295,717	11,470,662	12,173,295	11,803,633	11,792,093
OHIO BELL	50,465,734	49,742,157	50,282,970	52,137,195	54,216,560	53,487,809	50,410,051
GTE NORTH-MICHIGAN	4,139,113	4,534,839	4,535,513	4,521,694	4,655,649	5,924,288	4,757,796
MICHIGAN BELL	56,921,819	56,734,698	56,583,482	57,754,366	58,012,062	57,219,830	58,186,528
GTE NORTH-INDIANA	5,524,422	5,904,932	6,003,543	6,194,043	6,788,529	8,264,047	6,946,289
UNITED TEL.-INDIANA	1,266,664	1,322,972	1,392,948	1,365,961	1,450,296	1,433,315	1,481,146

TABLE 4.9

LOCAL SUBSCRIBER LINE USAGE MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
INDIANA BELL	22,926,536	22,319,898	23,462,693	23,433,759	23,751,071	23,543,409	23,483,220
GTE NORTH-WISCONSIN	2,454,307	2,724,603	2,779,897	2,783,071	2,835,514	3,626,017	2,943,002
WISCONSIN BELL	21,560,865	20,694,189	21,152,291	20,937,477	20,961,279	21,486,760	21,678,189
CENTEL-ILLINOIS	0	2,046,485	2,100,342	2,126,227	2,174,638	2,064,640	2,046,900
GTE NORTH-ILLINOIS	4,219,992	5,073,945	5,143,785	5,267,921	5,605,055	6,958,488	5,318,964
ILLINOIS BELL	70,306,775	72,742,969	72,925,132	73,909,088	78,018,680	80,018,384	79,497,515
GTE NORTH-IOWA	716,182	766,251	814,837	824,535	884,134	1,044,938	815,589
UNITED TEL.-IOWA	0	473,371	491,913	497,804	485,660	495,232	487,514
US WEST-IOWA	10,879,248	9,671,985	10,829,114	10,872,073	11,020,391	11,001,119	11,087,957
GTE NORTH-MN	22,498	24,117	24,777	24,273	23,521	28,679	21,837
CENTEL-MN	597,587	641,863	668,602	720,340	724,767	766,734	787,456
UNITED TEL.-MINNESOTA	0	786,298	822,156	864,230	876,902	960,574	989,473
US WEST-MINNESOTA	21,404,079	21,183,410	22,331,348	23,488,700	24,276,607	24,293,079	24,737,951
GTE NORTH-NEBRASKA	328,279	331,425	375,787	390,747	397,392	478,328	370,107
LINCOLN TEL. & TEL.	1,923,116	1,950,750	3,035,625	2,148,287	2,254,255	2,278,543	2,277,149
UNITED TEL.-NEBRASKA	0	225,819	224,670	232,046	212,495	232,220	227,248
US WEST-NEBRASKA	5,264,608	5,610,156	5,547,723	6,042,953	6,246,613	6,222,227	6,166,858
US WEST-NORTH DAKOTA	2,714,884	2,767,111	2,858,424	2,820,473	2,990,827	2,928,214	2,822,722
US WEST-SOUTH DAKOTA	2,400,660	2,377,861	2,457,410	2,408,230	2,542,917	2,611,484	2,606,229
UNITED TEL.-ARKANSAS	127,680	127,513	130,174	127,453	131,546	135,053	126,775
GTE SOUTHWEST-ARKANSAS	593,649	686,709	699,243	647,629	1,530,904	945,072	743,844
SMB-ARKANSAS	8,513,605	8,383,415	8,657,969	9,045,151	9,558,759	9,648,155	9,754,987
UNITED TEL.-KANSAS	473,442	471,503	482,806	495,885	489,453	479,740	450,518
SMB-KANSAS	12,061,420	11,736,565	11,939,447	12,303,799	12,492,728	13,082,685	13,101,980
GTE NORTH-MISSOURI	728,344	797,564	839,013	857,438	895,457	1,135,561	911,085
UNITED TEL.-MO	1,185,508	1,214,915	1,292,753	1,310,798	1,323,084	1,323,683	1,305,694
SMB-MISSOURI	28,915,911	28,856,561	30,046,802	29,706,300	30,889,140	31,892,613	32,596,184
GTE SOUTHWEST-OKLAHOMA	757,827	886,835	952,664	880,043	2,073,079	1,358,901	1,068,402
SMB-OKLAHOMA	15,946,633	16,142,576	17,099,619	17,696,832	17,460,114	17,166,135	16,928,804
GTE SOUTHWEST-TEXAS	8,560,980	10,093,519	10,406,907	9,874,509	23,056,930	15,179,703	12,281,719
UNITED TEL.-TEXAS	0	0	721,931	745,401	741,121	740,034	799,971
CENTEL-TEXAS	942,070	1,019,121	1,113,886	1,177,923	1,249,872	1,342,890	1,364,354
CONTEL-TEXAS	844,285	877,137	952,698	999,840	1,081,504	1,118,527	1,172,857
SMB-TEXAS	80,721,212	85,089,990	92,339,105	95,696,173	97,578,677	102,656,897	104,580,091
US WEST-ARIZONA	15,584,317	16,545,195	16,676,672	18,078,973	16,803,299	20,610,316	22,182,883
US WEST-COLORADO	19,549,197	20,670,324	22,270,279	22,065,378	21,630,894	22,788,790	22,840,184
GTE NORTHWEST-IDAHO	510,207	545,412	542,521	565,742	594,217	620,685	615,497
US WEST-IDAHO	3,388,039	3,488,223	3,565,347	3,518,012	3,456,003	3,498,350	3,468,345
US WEST-IDAHO-PNB	285,227	281,738	276,203	291,942	295,193	297,307	284,526
GTE NORTHWEST-MONTANA	44,747	52,034	50,140	59,469	60,079	61,261	59,629
US WEST-MONTANA	2,816,147	2,779,264	2,865,067	2,925,233	2,961,547	2,972,324	3,042,205
GTE SOUTHWEST-NEW MEXICO	379,749	459,795	480,225	399,775	859,555	516,598	419,375
US WEST-NEW MEXICO	6,053,651	6,291,930	6,360,725	6,582,005	6,800,982	7,057,675	7,407,234
US WEST-UTAH	8,757,669	8,813,989	9,271,654	9,657,923	9,543,520	10,051,251	10,221,464
UNITED TEL.-WYOMING	0	44,553	44,214	45,390	46,061	44,991	43,188
US WEST-WYOMING	2,073,248	2,120,341	2,207,277	2,128,196	1,806,104	2,122,211	2,062,851
UNITED TEL.-NW-WA	294,917	309,423	319,723	324,011	319,609	334,714	323,425
GTE NORTHWEST-WASHINGTON	3,665,944	3,916,296	4,014,695	4,172,178	4,409,919	4,768,059	5,169,924
US WEST-WASHINGTON	18,951,454	19,399,936	19,399,959	20,371,133	19,978,374	19,842,732	21,168,721
UNITED TEL.-NW-OR	247,369	257,420	249,103	257,541	268,347	336,365	298,698
GTE NORTHWEST-OREGON	1,862,754	2,376,559	2,401,625	2,508,705	2,662,537	2,813,972	2,843,639
US WEST-OREGON	11,552,476	11,390,309	10,980,334	11,298,052	10,843,215	10,651,496	10,895,482
CONTEL-CALIFORNIA	1,422,726	1,467,587	1,543,603	1,572,809	1,645,032	1,762,637	1,834,248

TABLE 4.9

LOCAL SUBSCRIBER LINE USAGE MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
GTE OF CALIFORNIA	25,503,496	27,888,290	29,200,875	30,864,953	31,129,279	31,876,281	32,505,061
GTE NORTHWEST-CALIFORNIA	48,161	58,851	60,615	65,347	67,646	66,059	65,634
PACIFIC BELL	131,319,692	134,695,786	139,028,393	143,332,937	142,506,508	144,801,816	145,424,193
CENTEL-NV	3,153,809	3,302,441	3,353,181	3,455,307	3,381,496	3,729,753	3,878,229
NEVADA BELL	1,600,926	1,669,716	1,753,310	1,823,919	1,902,635	1,906,815	1,955,837
DIAMOND STATE TELEPHONE	4,168,874	4,223,911	4,214,206	4,356,202	4,466,081	4,379,185	4,674,729
C&P OF WASHINGTON D.C.	12,099,221	12,334,768	12,499,005	12,730,915	13,227,518	12,681,613	12,868,235
NEW ENGLAND TEL.-RHODE ISLAND	6,294,928	6,410,899	6,526,870	6,638,871	6,795,192	6,765,419	6,651,566
GTE HAWAIIAN TELCO	6,773,812	0	6,773,812	6,645,671	6,972,899	7,956,394	7,832,733
PUERTO RICO TELEPHONE CO.	0	0	0	0	6,598,741	6,470,572	7,186,926
ALL OTHER COST COMPANIES	0	0	0	0	52,756,306	58,729,154	65,450,150

TABLE 4.10

STATE SUBSCRIBER LINE USAGE MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
NEW ENGLAND TEL.-MAINE	607,294	640,919	674,544	730,642	797,002	916,369	837,759
NEW ENGLAND TEL.-MA	3,830,989	4,006,967	4,182,945	4,512,816	5,138,012	5,932,039	5,667,562
NEW ENGLAND TEL.-NH	468,650	508,558	548,466	611,076	686,512	787,636	834,400
SOUTHERN NEW ENGLAND TEL.	2,724,526	2,999,343	3,206,921	3,358,670	3,545,738	3,892,049	4,319,473
NEW ENGLAND TEL.-VERMONT	273,190	284,721	296,252	314,739	341,399	356,835	364,365
CONTEL-NEW YORK	377,385	421,488	452,299	488,871	556,546	633,222	695,176
ROCHESTER	0	0	0	0	533,287	569,251	617,081
NEW YORK TELEPHONE	4,898,171	5,203,614	5,555,248	6,134,272	6,057,379	6,410,530	7,343,544
UNITED TEL.-NEW JERSEY	0	353,069	378,442	409,631	458,504	572,130	658,029
NEW JERSEY BELL	10,198,317	10,645,082	11,339,543	12,360,792	14,212,360	15,233,542	16,319,222
GTE NORTH-PA	26,594	30,840	34,952	37,183	570,896	665,316	663,701
UNITED TEL.-PA	423,916	449,207	464,354	493,686	585,990	620,050	664,469
BELL OF PENNSYLVANIA	4,590,819	4,932,229	5,231,560	5,526,149	7,119,121	8,160,739	7,149,100
C&P OF MARYLAND	1,127,149	1,196,776	1,254,382	1,305,138	1,382,713	1,499,494	1,671,253
CONTEL-VIRGINIA	0	426,992	465,696	486,539	570,013	771,324	783,720
CENDEL-VIRGINIA	246,518	274,436	292,372	307,626	324,092	344,919	351,783
GTE SOUTH-VIRGINIA	34,433	37,654	40,889	39,275	43,158	62,149	50,841
UNITED INTER-MOUNTAIN-VA	78,558	83,772	86,866	87,095	96,381	107,795	113,044
C&P OF VIRGINIA	1,613,569	1,700,032	1,776,348	1,845,552	2,086,219	2,513,617	2,543,780
GTE SOUTH-WEST VIRGINIA	67,901	71,784	79,202	80,174	88,230	127,416	102,884
C&P OF WEST VIRGINIA	749,251	787,193	807,210	791,140	877,297	1,017,983	946,924
GTE OF FLORIDA	1,037,794	1,149,098	1,334,326	1,412,807	1,809,552	2,060,361	2,279,784
CENDEL OF FLORIDA	185,456	215,137	237,052	251,056	298,412	346,926	383,539
UNITED TEL.-FLORIDA	0	751,426	848,952	993,365	1,104,224	1,249,145	1,259,669
SOUTHERN BELL-FLORIDA	2,857,060	3,167,895	3,473,021	3,736,202	4,649,616	5,602,306	6,595,867
GTE SOUTH-GEORGIA	237,257	277,189	288,519	307,923	338,905	478,942	418,412
SOUTHERN BELL-GEORGIA	1,790,787	1,895,709	1,993,247	2,028,691	2,384,695	2,819,987	2,929,351
CAROLINA TELEPHONE & TELEGRAPH	877,130	912,589	950,173	1,032,740	1,152,484	1,309,918	1,342,599
CENDEL-NORTH CAROLINA	241,756	260,170	265,055	287,621	306,749	340,575	374,479
GTE SOUTH-NORTH CAROLINA	134,835	151,180	158,557	170,682	194,007	289,678	247,957
SOUTHERN BELL-NORTH CAROLINA	1,631,957	1,766,216	1,870,619	1,973,481	2,261,485	2,558,799	2,928,585
GTE SOUTH-SOUTH CAROLINA	131,986	148,004	151,952	160,797	176,000	265,342	227,313
UNITED OF THE CAROLINAS	65,308	68,745	69,845	73,954	88,636	100,162	105,172
SOUTHERN BELL-SOUTH CAROLINA	781,931	837,886	846,256	867,709	1,020,387	1,196,751	1,268,895
GTE SOUTH-ALABAMA	120,895	141,721	150,132	159,358	180,768	227,766	190,250
SOUTH CENTRAL BELL-ALABAMA	1,094,713	1,154,624	1,213,248	1,252,592	1,407,179	1,585,168	1,726,167
GTE SOUTH-KENTUCKY	258,724	325,753	335,796	346,243	377,908	536,942	450,359
CINCINNATI BELL-KENTUCKY	43,462	42,207	47,919	55,067	59,449	74,917	75,169
SOUTH CENTRAL BELL-KENTUCKY	774,937	800,594	805,033	825,109	933,758	1,002,817	1,080,111
SOUTH CENTRAL BELL-LOUISIANA	1,850,887	2,079,686	2,232,794	2,236,463	2,639,507	2,829,103	2,658,641
SOUTH CENTRAL BELL-MISSISSIPPI	949,237	982,022	1,025,662	1,080,952	1,232,735	1,362,307	1,416,954
GTE SOUTH-TENNESSEE	50,261	53,703	62,854	66,205	73,502	108,105	84,697
UNITED INTER-MOUNTAIN-TN	143,628	148,104	154,934	164,510	204,429	231,247	259,818
SOUTH CENTRAL BELL-TENNESSEE	1,325,110	1,429,352	1,510,456	1,567,055	1,852,225	2,119,042	2,291,955
GTE NORTH-OHIO	945,055	1,079,391	1,131,981	1,139,440	1,185,958	1,582,673	1,344,470
CENDEL-OHIO	0	86,675	88,927	87,031	88,217	108,025	129,969
UNITED TEL.-OHIO	699,889	750,319	791,471	821,221	849,589	913,584	893,080
CINCINNATI BELL-OHIO	277,712	293,672	329,866	349,035	355,594	466,683	483,162
OHIO BELL	2,942,625	2,958,658	3,022,524	3,076,803	3,625,302	4,176,103	4,394,279
GTE NORTH-MICHIGAN	992,701	1,091,438	1,122,866	1,148,109	1,209,228	1,644,981	1,409,096
MICHIGAN BELL	5,278,248	5,542,826	5,618,418	5,866,891	7,167,906	8,790,932	9,317,828
GTE NORTH-INDIANA	563,489	652,405	681,592	716,797	773,441	1,041,596	875,041
UNITED TEL.-INDIANA	249,763	266,600	279,500	293,382	332,743	356,012	357,786

TABLE 4.10

STATE SUBSCRIBER LINE USAGE MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
INDIANA BELL	1,254,170	1,320,767	1,389,280	1,435,274	1,653,110	1,811,029	1,887,190
GTE NORTH-WISCONSIN	480,320	554,514	573,850	593,979	622,078	853,477	720,149
WISCONSIN BELL	1,506,257	1,590,868	1,689,031	1,731,619	1,859,291	2,000,574	2,088,066
CENTEL-ILLINOIS	0	180,986	185,816	192,600	214,979	226,481	244,478
GTE NORTH-ILLINOIS	1,044,526	1,310,942	1,385,946	1,406,263	1,464,087	1,911,417	1,582,320
ILLINOIS BELL	2,795,107	2,792,678	2,842,898	2,999,454	3,461,162	3,585,204	3,753,737
GTE NORTH-IOWA	198,819	226,645	241,449	258,789	258,631	337,299	272,226
UNITED TEL.-IOWA	0	113,058	121,926	123,858	133,468	148,293	145,529
US WEST-IOWA	1,151,815	1,202,196	1,254,510	1,287,712	1,505,355	1,412,151	1,473,873
GTE NORTH-MN	6,204	7,266	8,103	8,868	8,543	10,111	8,346
CENTEL-MN	77,352	84,922	91,900	100,423	105,534	116,715	120,404
UNITED TEL.-MINNESOTA	0	114,611	124,845	134,068	143,505	169,109	170,926
US WEST-MINNESOTA	1,145,025	1,209,717	1,286,080	1,364,122	1,670,731	1,686,419	1,782,595
GTE NORTH-NEBRASKA	71,849	78,117	92,037	97,496	101,249	127,572	100,619
LINCOLN TEL. & TEL.	281,176	299,881	329,033	339,257	358,462	357,440	356,330
UNITED TEL.-NEBRASKA	0	20,854	22,018	23,253	23,195	28,591	27,874
US WEST-NEBRASKA	378,570	373,877	430,088	452,228	632,766	496,014	507,088
US WEST-NORTH DAKOTA	281,200	307,504	321,157	326,811	365,567	400,723	394,523
US WEST-SOUTH DAKOTA	273,420	289,120	306,493	317,986	345,726	382,304	384,748
UNITED TEL.-ARKANSAS	26,039	26,109	26,280	26,829	27,628	31,275	31,967
GTE SOUTHWEST-ARKANSAS	98,119	110,714	108,346	102,428	233,106	166,982	131,652
SMB-ARKANSAS	881,219	940,795	948,497	971,418	1,059,775	1,120,307	1,107,102
UNITED TEL.-KANSAS	138,162	141,479	145,376	148,637	145,952	158,079	150,542
SMB-KANSAS	1,200,138	1,310,646	1,316,170	1,327,216	1,384,533	1,448,935	1,418,006
GTE NORTH-MISSOURI	154,903	180,888	182,168	189,367	194,101	276,194	235,637
UNITED TEL.-MO	321,660	341,453	350,364	355,275	367,691	401,927	388,638
SMB-MISSOURI	1,579,062	1,631,980	1,639,366	1,592,922	1,706,188	1,858,455	1,932,471
GTE SOUTHWEST-OKLAHOMA	167,145	207,679	219,659	213,789	483,626	322,616	249,196
SMB-OKLAHOMA	1,740,306	1,946,051	2,108,497	2,116,478	2,203,765	2,344,976	2,221,825
GTE SOUTHWEST-TEXAS	1,512,653	1,836,636	1,931,153	1,861,151	4,434,021	3,071,433	2,516,230
UNITED TEL.-TEXAS	0	0	258,273	261,630	307,064	342,420	344,671
CENTEL-TEXAS	147,142	167,868	204,007	209,925	241,999	264,407	268,844
CONTEL-TEXAS	310,503	365,023	410,817	419,009	482,454	537,166	551,548
SMB-TEXAS	7,163,641	7,984,232	8,624,156	8,366,678	10,711,543	11,856,268	11,572,476
US WEST-ARIZONA	780,067	859,628	906,913	907,327	1,361,524	1,279,569	1,467,747
US WEST-COLORADO	1,198,914	1,340,451	1,464,981	1,519,353	2,248,071	1,910,358	2,049,182
GTE NORTHWEST-IDAHO	70,371	79,297	80,913	86,591	100,150	107,166	109,302
US WEST-IDAHO	367,713	382,959	390,840	407,341	511,995	518,941	515,939
US WEST-IDAHO-PNB	28,055	29,023	29,378	31,820	34,841	35,835	36,580
GTE NORTHWEST-MONTANA	6,833	7,520	7,322	7,873	8,741	9,056	9,359
US WEST-MONTANA	440,074	463,298	478,570	511,165	559,284	583,107	616,394
GTE SOUTHWEST-NEW MEXICO	35,556	44,519	49,677	44,726	109,245	76,162	51,491
US WEST-NEW MEXICO	414,027	443,979	486,228	495,268	611,080	600,070	670,198
US WEST-UTAH	607,973	662,798	649,725	653,533	1,170,811	792,038	850,832
UNITED TEL.-WYOMING	0	6,487	6,061	6,380	6,157	7,647	7,647
US WEST-WYOMING	266,368	288,983	290,129	278,147	324,173	342,294	336,195
UNITED TEL.-NM-WA	113,104	119,359	126,657	134,617	130,314	145,562	146,102
GTE NORTHWEST-WASHINGTON	539,695	615,038	648,849	716,582	788,485	852,928	924,879
US WEST-WASHINGTON	1,707,317	1,862,792	1,960,852	2,107,864	2,600,286	2,821,724	2,705,882
UNITED TEL.-NM-OR	106,257	110,267	108,367	113,236	114,335	137,405	122,456
GTE NORTHWEST-OREGON	289,690	370,726	375,089	390,566	403,489	402,926	420,945
US WEST-OREGON	1,188,001	1,128,707	1,253,644	1,312,778	1,611,851	1,468,563	1,560,903
CONTEL-CALIFORNIA	528,928	583,532	616,939	649,193	690,091	768,577	833,960

TABLE 4.10

STATE SUBSCRIBER LINE USAGE MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
GTE OF CALIFORNIA	6,721,915	7,880,738	8,222,677	8,523,993	8,912,648	8,865,221	9,845,737
GTE NORTHWEST-CALIFORNIA	15,895	17,886	16,858	16,333	16,870	17,705	18,381
PACIFIC BELL	23,837,631	25,474,982	26,047,955	27,859,718	31,902,707	35,162,679	36,972,951
CENTEL-NV	33,138	36,461	40,153	47,526	50,456	56,959	71,448
NEVADA BELL	81,088	90,660	91,294	95,978	114,861	141,032	158,560
DIAMOND STATE TELEPHONE	112,942	120,355	126,498	143,724	219,273	278,426	193,396
C&P OF WASHINGTON D.C.	0	0	0	0	0	0	0
NEW ENGLAND TEL.-RHODE ISLAND	308,779	321,939	335,099	349,461	371,858	404,454	437,476
GTE HAWAIIAN TELCO	215,364	0	215,364	250,873	273,165	301,806	328,029
PUERTO RICO TELEPHONE CO.	0	0	0	0	704,920	891,490	1,018,185
ALL OTHER COST COMPANIES	0	0	0	0	13,678,304	15,237,250	17,072,472

TABLE 4.11

INTERSTATE SUBSCRIBER LINE USAGE MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
NEW ENGLAND TEL.-MAINE	481,232	529,080	576,927	640,969	724,815	864,010	842,509
NEW ENGLAND TEL.-MA	3,909,460	4,158,899	4,408,339	4,706,411	5,293,437	6,934,079	6,938,794
NEW ENGLAND TEL.-NH	806,688	877,109	947,530	1,037,359	1,181,965	1,497,337	1,520,071
SOUTHERN NEW ENGLAND TEL.	2,586,964	3,604,712	3,739,316	3,902,430	4,266,775	4,980,743	5,471,190
NEW ENGLAND TEL.-VERMONT	392,561	420,731	448,901	490,731	560,773	615,851	578,437
CONTEL-NEW YORK	132,050	146,814	158,648	173,657	205,253	254,046	290,771
ROCHESTER	0	0	0	0	458,813	534,534	617,566
NEW YORK TELEPHONE	10,925,994	11,709,096	12,637,315	13,757,135	16,832,605	19,755,330	21,857,171
UNITED TEL.-NEW JERSEY	0	142,699	152,963	171,269	193,581	255,092	273,792
NEW JERSEY BELL	7,173,029	7,542,440	7,876,876	8,425,222	9,772,646	11,738,232	11,521,702
GTE NORTH-PA	10,394	12,368	13,697	14,325	490,924	490,053	545,858
UNITED TEL.-PA	192,534	209,889	213,853	228,291	295,613	322,745	328,405
BELL OF PENNSYLVANIA	5,435,893	5,747,278	6,064,591	6,481,488	7,748,620	9,283,435	8,613,981
C&P OF MARYLAND	2,793,163	2,937,391	3,005,099	3,192,233	3,627,630	4,013,929	4,738,455
CONTEL-VIRGINIA	0	303,651	331,357	357,602	483,365	604,009	718,539
CENTEL-VIRGINIA	214,091	229,720	243,914	270,559	293,695	358,331	289,503
GTE SOUTH-VIRGINIA	33,731	36,491	38,797	36,535	43,333	58,703	48,806
UNITED INTER-MOUNTAIN-VA	85,581	94,581	99,191	103,254	112,485	122,570	129,441
C&P OF VIRGINIA	2,702,546	2,849,621	2,969,606	3,256,237	3,920,968	4,491,670	4,465,614
GTE SOUTH-WEST VIRGINIA	86,790	91,928	99,415	99,035	116,860	158,120	139,215
C&P OF WEST VIRGINIA	812,365	862,245	869,138	901,117	1,019,138	1,130,119	1,104,206
GTE OF FLORIDA	1,332,526	1,547,275	1,855,454	1,964,069	2,309,384	2,638,081	2,979,781
CENTEL OF FLORIDA	199,583	233,678	257,460	285,868	324,177	395,426	456,501
UNITED TEL.-FLORIDA	0	895,484	1,004,883	1,077,248	1,115,222	1,385,412	1,495,040
SOUTHERN BELL-FLORIDA	4,639,255	5,024,777	5,422,977	5,872,280	6,622,091	7,616,467	9,107,734
GTE SOUTH-GEORGIA	145,202	166,167	169,567	182,750	216,080	304,302	243,596
SOUTHERN BELL-GEORGIA	3,375,324	3,654,000	3,856,208	3,963,328	4,532,620	5,252,475	5,987,591
CAROLINA TELEPHONE & TELEGRAPH	620,701	653,659	697,556	787,820	932,369	1,142,784	1,235,204
CENTEL-NORTH CAROLINA	134,924	148,995	150,172	169,874	195,965	223,854	255,691
GTE SOUTH-NORTH CAROLINA	125,528	157,051	172,171	192,790	220,671	329,281	251,344
SOUTHERN BELL-NORTH CAROLINA	1,537,854	1,723,292	1,818,150	1,979,818	2,277,122	2,618,057	3,006,378
GTE SOUTH-SOUTH CAROLINA	135,267	165,483	171,687	193,341	219,184	315,713	275,153
UNITED OF THE CAROLINAS	67,610	75,346	81,119	87,734	103,559	112,130	114,913
SOUTHERN BELL-SOUTH CAROLINA	1,056,324	1,163,444	1,230,150	1,347,911	1,597,919	1,715,878	2,087,019
GTE SOUTH-ALABAMA	119,752	146,396	153,332	161,240	196,224	248,013	209,478
SOUTH CENTRAL BELL-ALABAMA	1,496,885	1,593,038	1,657,039	1,735,018	2,001,702	2,496,474	2,801,719
GTE SOUTH-KENTUCKY	279,848	354,504	363,458	367,031	416,260	604,186	499,406
CINCINNATI BELL-KENTUCKY	97,102	100,990	118,896	148,218	160,033	230,813	234,074
SOUTH CENTRAL BELL-KENTUCKY	1,041,342	1,085,292	1,100,683	1,124,224	1,317,494	1,537,244	1,706,693
SOUTH CENTRAL BELL-LOUISIANA	1,884,529	2,070,844	2,166,548	2,264,646	2,613,634	3,119,750	3,206,197
SOUTH CENTRAL BELL-MISSISSIPPI	1,072,552	1,151,992	1,200,145	1,264,112	1,436,064	1,784,017	1,993,211
GTE SOUTH-TENNESSEE	38,055	44,960	53,273	56,115	60,690	96,493	72,144
UNITED INTER-MOUNTAIN-TN	177,603	193,736	208,934	220,020	244,162	265,937	270,640
SOUTH CENTRAL BELL-TENNESSEE	2,100,771	2,248,573	2,449,311	2,633,088	3,206,753	3,797,088	4,160,489
GTE NORTH-OHIO	476,296	560,169	547,498	556,710	608,726	839,254	774,296
CENTEL-OHIO	0	44,276	46,836	47,614	59,705	76,087	80,336
UNITED TEL.-OHIO	323,585	346,944	375,648	404,453	445,744	531,338	496,347
CINCINNATI BELL-OHIO	653,777	697,353	799,596	851,738	924,167	1,300,998	1,402,629
OHIO BELL	3,161,223	3,262,614	3,356,813	3,441,126	4,558,378	4,978,086	5,984,248
GTE NORTH-MICHIGAN	299,699	333,013	356,398	373,387	419,491	584,018	533,553
MICHIGAN BELL	3,237,384	3,315,932	2,997,982	3,343,832	4,495,813	5,507,136	6,271,950
GTE NORTH-INDIANA	612,907	717,095	723,945	758,531	831,804	1,166,171	1,035,750
UNITED TEL.-INDIANA	154,460	175,640	183,152	194,734	209,542	226,266	210,487

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INTERSTATE SUBSCRIBER LINE USAGE MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
INDIANA BELL	1,754,619	1,855,212	1,920,145	1,956,224	2,288,833	2,837,176	2,943,954
GTE NORTH-WISCONSIN	247,333	290,329	295,861	313,761	353,212	505,128	413,156
WISCONSIN BELL	1,520,812	1,606,919	1,677,293	1,756,255	2,166,457	2,489,556	2,806,560
CENTEL-ILLINOIS	0	223,357	218,486	243,960	274,970	296,297	368,766
GTE NORTH-ILLINOIS	420,387	555,749	587,183	608,678	628,804	843,236	689,865
ILLINOIS BELL	6,267,023	6,389,398	6,263,330	6,437,998	8,523,190	9,669,295	10,395,166
GTE NORTH-IOWA	79,160	96,312	103,705	112,163	119,494	162,148	132,387
UNITED TEL.-IOWA	0	50,106	55,592	58,888	68,945	88,519	84,948
US WEST-IOWA	1,090,361	1,145,090	1,193,092	1,319,258	1,654,471	2,053,867	2,178,722
GTE NORTH-MN	2,725	3,283	3,545	3,962	4,022	5,116	4,084
CENTEL-MN	49,666	55,757	59,052	63,534	76,541	86,279	93,993
UNITED TEL.-MINNESOTA	0	52,567	55,250	59,876	64,717	85,239	89,769
US WEST-MINNESOTA	1,784,250	1,895,217	1,956,822	2,130,621	2,409,724	3,201,145	3,540,222
GTE NORTH-NEBRASKA	32,689	35,423	40,545	43,865	49,137	66,911	55,290
LINCOLN TEL. & TEL.	213,534	226,014	235,231	234,282	289,835	317,463	354,921
UNITED TEL.-NEBRASKA	0	33,190	34,893	35,301	35,557	44,787	45,555
US WEST-NEBRASKA	657,986	786,387	789,675	835,900	1,019,806	1,148,948	1,280,982
US WEST-NORTH DAKOTA	298,558	334,594	377,241	364,777	416,723	507,247	529,080
US WEST-SOUTH DAKOTA	300,992	327,845	350,736	381,193	479,191	514,461	595,617
UNITED TEL.-ARKANSAS	17,809	19,210	20,593	21,454	22,079	27,492	28,908
GTE SOUTHWEST-ARKANSAS	65,246	77,491	76,864	71,867	167,752	127,894	104,096
SWB-ARKANSAS	823,288	906,621	946,861	1,009,077	1,187,686	1,438,910	1,391,099
UNITED TEL.-KANSAS	94,658	97,093	99,061	107,797	110,239	119,373	124,403
SWB-KANSAS	1,206,452	1,302,109	1,320,938	1,432,234	1,647,121	1,946,868	1,954,336
GTE NORTH-MISSOURI	88,679	100,323	104,460	117,094	134,175	185,595	175,544
UNITED TEL.-MO	160,699	180,541	203,942	224,451	207,975	295,624	288,035
SWB-MISSOURI	2,739,563	2,762,225	2,784,578	2,851,208	3,270,661	4,094,676	3,906,329
GTE SOUTHWEST-OKLAHOMA	95,036	122,599	130,577	121,299	285,739	212,837	183,602
SWB-OKLAHOMA	1,728,534	1,892,303	2,052,839	2,020,341	2,194,776	2,469,684	2,363,044
GTE SOUTHWEST-TEXAS	725,311	875,136	883,047	840,341	2,107,319	1,561,820	1,427,087
UNITED TEL.-TEXAS	0	0	49,271	46,201	60,325	71,283	73,847
CENTEL-TEXAS	119,158	131,895	136,791	151,563	199,791	223,694	275,500
CONTEL-TEXAS	71,139	81,839	94,332	95,216	120,236	156,630	153,800
SWB-TEXAS	5,589,713	6,267,802	7,039,559	7,239,999	8,451,452	10,688,564	10,133,479
US WEST-ARIZONA	2,110,331	2,233,671	2,298,028	2,291,902	2,743,688	3,608,881	4,047,659
US WEST-COLORADO	2,523,456	2,902,241	3,142,296	3,263,128	3,795,739	4,188,054	4,724,356
GTE NORTHWEST-IDAHO	115,414	135,580	135,633	144,666	179,076	195,222	195,335
US WEST-IDAHO	418,023	448,512	466,319	503,319	612,668	742,939	781,546
US WEST-IDAHO-PNB	38,262	38,796	41,330	42,280	48,108	53,191	56,646
GTE NORTHWEST-MONTANA	7,830	9,474	9,427	10,002	12,153	13,171	13,424
US WEST-MONTANA	406,083	456,997	473,017	474,200	550,447	624,065	645,866
GTE SOUTHWEST-NEW MEXICO	65,122	83,558	87,668	76,616	176,985	119,091	84,201
US WEST-NEW MEXICO	703,274	767,976	823,212	864,229	1,003,989	1,190,878	1,319,899
US WEST-UTAH	816,676	921,679	992,385	1,097,729	1,242,423	1,513,486	1,640,365
UNITED TEL.-WYOMING	0	10,259	9,724	9,663	11,072	13,574	14,798
US WEST-WYOMING	432,928	495,642	519,354	504,858	564,510	622,473	630,117
UNITED TEL.-NW-WA	51,303	54,717	57,176	62,052	68,681	75,905	73,632
GTE NORTHWEST-WASHINGTON	357,656	423,742	445,010	482,028	533,764	599,149	643,730
US WEST-WASHINGTON	1,750,289	1,924,844	2,036,402	2,153,692	2,600,721	3,157,911	3,391,040
UNITED TEL.-NW-OR	46,837	49,463	50,180	54,419	60,850	76,106	73,791
GTE NORTHWEST-OREGON	249,080	324,376	320,949	336,002	359,750	384,425	447,149
US WEST-OREGON	1,121,512	1,285,031	1,289,544	1,365,586	1,664,824	2,225,805	2,092,637
CONTEL-CALIFORNIA	131,163	139,993	153,124	169,787	184,745	219,020	248,641



TABLE 4.11

INTERSTATE SUBSCRIBER LINE USAGE MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
GTE OF CALIFORNIA	1,902,489	2,193,721	2,237,487	2,374,093	2,467,694	2,961,702	3,543,810
GTE NORTHWEST-CALIFORNIA	9,131	10,804	10,448	11,056	11,935	12,066	11,349
PACIFIC BELL	9,683,515	10,145,217	10,560,841	11,676,623	13,579,847	16,381,192	16,392,151
CENTEL-NV	563,335	613,920	624,540	647,682	859,509	873,281	1,238,527
NEVADA BELL	374,636	408,824	418,932	469,841	535,500	570,528	540,491
DIAMOND STATE TELEPHONE	619,575	640,000	646,107	688,151	831,090	1,025,248	1,056,767
C&P OF WASHINGTON D.C.	1,843,797	1,910,972	1,912,159	2,007,116	2,391,430	3,006,849	2,890,773
NEW ENGLAND TEL.-RHODE ISLAND	703,986	739,933	775,880	829,168	939,642	1,159,393	1,130,628
GTE HAWAIIAN TELCO	471,660	0	471,660	498,775	514,796	743,960	861,247
PUERTO RICO TELEPHONE CO.	0	0	0	0	503,063	625,901	731,995
ALL OTHER COST COMPANIES	0	0	0	0	6,960,299	8,129,069	9,234,463

TABLE 4.12

TOTAL SUBSCRIBER LINE USAGE MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
NEW ENGLAND TEL.-MAINE	5,602,054	5,812,355	6,022,655	6,253,889	6,523,874	6,573,094	6,632,554
NEW ENGLAND TEL.-MA	46,315,191	47,882,407	49,449,623	50,725,433	53,811,723	56,478,497	55,619,341
NEW ENGLAND TEL.-NH	5,393,663	5,635,658	5,877,654	6,138,079	6,779,335	7,261,865	7,374,569
SOUTHERN NEW ENGLAND TEL.	24,873,259	26,214,637	26,812,152	27,453,705	28,400,356	30,105,494	32,743,409
NEW ENGLAND TEL.-VERMONT	2,647,117	2,821,690	2,996,263	3,160,652	3,257,676	3,291,936	3,239,270
CONTEL-NEW YORK	2,003,919	2,154,562	2,235,596	2,334,944	2,482,459	2,650,792	2,802,195
ROCHESTER	0	0	0	0	6,711,906	7,043,271	7,215,647
NEW YORK TELEPHONE	126,648,659	132,757,401	137,670,997	145,378,667	158,060,634	169,333,194	173,729,450
UNITED TEL.-NEW JERSEY	0	1,067,140	1,114,450	1,183,526	1,315,501	1,564,537	1,610,129
NEW JERSEY BELL	62,083,618	64,319,153	64,862,817	66,862,812	71,166,134	73,122,587	73,622,516
GTE NORTH-PA	207,831	225,938	250,067	276,675	5,934,605	6,323,996	6,629,203
UNITED TEL.-PA	2,859,429	2,990,245	3,023,391	3,113,383	3,435,650	3,530,368	3,611,185
BELL OF PENNSYLVANIA	76,708,860	79,303,955	81,772,954	82,445,865	84,144,308	83,807,280	86,094,779
C&P OF MARYLAND	40,600,001	42,519,569	44,701,292	46,143,171	46,742,778	46,060,281	48,290,093
CONTEL-VIRGINIA	0	2,982,419	3,172,157	3,312,534	3,896,871	4,432,556	4,758,794
CENTEL-VIRGINIA	2,406,191	2,524,171	2,697,262	2,787,231	2,763,487	3,029,191	3,005,079
GTE SOUTH-VIRGINIA	480,983	487,786	536,355	512,537	526,490	666,869	549,114
UNITED INTER-MOUNTAIN-VA	1,294,860	1,309,115	1,324,543	1,365,432	1,243,287	1,193,927	1,213,344
C&P OF VIRGINIA	34,260,220	34,734,363	35,926,817	37,762,478	39,567,208	41,515,781	42,833,116
GTE SOUTH-WEST VIRGINIA	854,278	858,807	974,239	962,860	994,970	1,245,333	1,026,295
C&P OF WEST VIRGINIA	11,656,872	11,894,721	11,840,569	11,908,685	12,175,656	12,449,573	12,310,349
GTE OF FLORIDA	13,215,754	13,896,073	15,848,729	16,892,704	18,410,854	20,243,038	21,739,121
CENTEL OF FLORIDA	2,033,681	2,243,141	2,318,613	2,496,734	2,755,572	2,954,371	3,105,468
UNITED TEL.-FLORIDA	0	6,986,523	7,637,994	8,031,670	8,747,173	9,615,262	10,336,630
SOUTHERN BELL-FLORIDA	50,848,705	52,757,649	55,552,948	58,886,379	62,252,955	65,524,082	68,472,842
GTE SOUTH-GEORGIA	2,216,849	2,457,887	2,550,337	2,657,846	2,723,919	3,527,827	3,011,956
SOUTHERN BELL-GEORGIA	41,410,481	42,488,702	42,805,716	45,120,126	48,796,398	51,233,603	52,873,547
CAROLINA TELEPHONE & TELEGRAPH	8,886,193	9,011,933	9,411,985	9,843,640	10,656,599	11,266,812	11,566,072
CENTEL-NORTH CAROLINA	2,275,046	2,365,779	2,450,884	2,573,250	2,687,414	2,845,346	2,972,446
GTE SOUTH-NORTH CAROLINA	1,534,891	1,706,191	1,827,984	1,933,760	2,095,306	2,795,420	2,157,150
SOUTHERN BELL-NORTH CAROLINA	22,250,199	22,597,792	22,977,107	23,649,601	26,019,429	27,767,242	29,480,993
GTE SOUTH-SOUTH CAROLINA	1,458,856	1,649,457	1,638,873	1,725,258	1,892,534	2,515,030	2,060,902
UNITED OF THE CAROLINAS	823,669	860,353	861,912	915,679	933,213	1,005,014	1,048,287
SOUTHERN BELL-SOUTH CAROLINA	16,694,214	16,770,889	17,161,893	17,612,619	19,066,682	20,158,448	21,074,192
GTE SOUTH-ALABAMA	1,319,607	1,532,929	1,648,620	1,667,721	1,768,540	2,230,600	1,814,425
SOUTH CENTRAL BELL-ALABAMA	24,697,436	25,329,449	26,008,608	27,094,574	28,041,000	29,237,537	30,494,866
GTE SOUTH-KENTUCKY	3,563,994	4,455,467	4,502,745	4,614,710	4,882,694	6,590,632	5,219,803
CINCINNATI BELL-KENTUCKY	2,320,088	2,347,873	2,412,437	2,461,696	2,496,898	2,642,262	2,635,314
SOUTH CENTRAL BELL-KENTUCKY	16,359,177	16,440,354	16,654,308	16,799,282	17,906,591	18,485,575	17,946,610
SOUTH CENTRAL BELL-LOUISIANA	32,896,820	35,047,543	36,772,898	37,451,222	38,049,862	38,369,998	37,770,494
SOUTH CENTRAL BELL-MISSISSIPPI	14,753,482	14,892,986	15,524,031	15,906,749	16,588,204	18,008,168	18,197,348
GTE SOUTH-TENNESSEE	637,594	641,759	675,835	671,560	702,065	930,898	766,571
UNITED INTER-MOUNTAIN-TN	2,597,376	2,677,868	2,670,258	2,712,939	2,728,882	2,850,434	2,990,269
SOUTH CENTRAL BELL-TENNESSEE	33,120,761	32,791,726	33,753,603	34,238,596	36,196,599	38,268,910	40,117,307
GTE NORTH-OHIO	7,124,198	8,095,932	8,253,470	8,356,489	8,885,453	11,380,824	9,625,150
CENTEL-OHIO	0	861,048	830,959	839,316	887,636	921,173	929,427
UNITED TEL.-OHIO	5,091,675	5,265,155	5,379,464	5,375,636	5,620,380	5,900,262	6,073,807
CINCINNATI BELL-OHIO	12,302,298	12,015,728	12,425,179	12,671,435	13,453,056	13,571,314	13,677,884
OHIO BELL	56,569,582	55,963,429	56,662,307	58,655,124	62,400,240	62,641,998	60,788,578
GTE NORTH-MICHIGAN	5,431,513	5,959,290	6,014,777	6,043,190	6,284,368	8,153,287	6,700,445
MICHIGAN BELL	65,437,451	65,593,456	65,199,882	66,965,089	69,675,781	71,517,898	73,776,306
GTE NORTH-INDIANA	6,700,818	7,274,432	7,409,080	7,669,371	8,393,774	10,471,814	8,857,080
UNITED TEL.-INDIANA	1,670,887	1,765,212	1,855,600	1,854,077	1,992,581	2,015,593	2,049,419

TABLE 4.12

TOTAL SUBSCRIBER LINE USAGE MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
INDIANA BELL	25,935,325	25,495,877	26,772,118	26,825,257	27,693,014	28,191,614	28,314,364
GTE NORTH-WISCONSIN	3,181,960	3,569,446	3,649,608	3,690,811	3,810,804	4,984,622	4,076,307
WISCONSIN BELL	24,587,934	23,891,976	24,518,615	24,425,351	24,987,027	25,976,890	26,572,815
CENDEL-ILLINOIS	0	2,450,828	2,504,644	2,562,787	2,664,587	2,587,418	2,660,144
GTE NORTH-ILLINOIS	5,684,905	6,940,636	7,116,920	7,282,862	7,697,946	9,713,141	7,591,149
ILLINOIS BELL	79,368,905	81,925,045	82,031,360	83,346,540	90,003,032	93,272,883	93,646,418
GTE NORTH-IOWA	994,161	1,089,208	1,159,991	1,195,487	1,262,259	1,544,385	1,220,202
UNITED TEL.-IOWA	0	636,535	669,431	680,550	688,073	732,044	717,991
US WEST-IOWA	13,121,424	12,019,271	13,276,716	13,479,043	14,180,217	14,467,137	14,740,552
GTE NORTH-MN	31,427	34,666	36,425	37,103	36,086	43,906	34,267
CENDEL-MN	724,605	782,542	819,554	884,297	906,842	969,728	1,001,853
UNITED TEL.-MINNESOTA	0	953,476	1,002,251	1,058,174	1,085,124	1,214,922	1,250,168
US WEST-MINNESOTA	24,333,354	24,288,344	25,574,250	26,983,443	28,357,062	29,180,643	30,060,768
GTE NORTH-NEBRASKA	432,817	444,965	508,369	532,108	547,778	672,811	526,016
LINCOLN TEL. & TEL.	2,417,826	2,476,645	3,599,889	2,721,826	2,902,552	2,953,446	2,988,400
UNITED TEL.-NEBRASKA	0	279,863	281,581	290,600	271,247	305,598	300,677
US WEST-NEBRASKA	6,301,164	6,770,420	6,767,486	7,331,081	7,899,185	7,867,189	7,954,928
US WEST-NORTH DAKOTA	3,294,642	3,409,209	3,556,822	3,512,061	3,773,117	3,836,184	3,746,325
US WEST-SOUTH DAKOTA	2,975,072	2,994,826	3,114,639	3,107,409	3,367,834	3,508,249	3,586,594
UNITED TEL.-ARKANSAS	171,528	172,832	177,047	175,736	181,253	193,820	187,650
GTE SOUTHWEST-ARKANSAS	757,014	874,914	884,453	821,924	1,931,762	1,239,948	979,592
SMB-ARKANSAS	10,218,112	10,230,831	10,553,327	11,025,646	11,806,220	12,207,372	12,253,188
UNITED TEL.-KANSAS	706,262	710,075	727,243	752,319	745,644	757,192	725,463
SMB-KANSAS	14,468,010	14,349,320	14,576,555	15,063,249	15,524,382	16,478,488	16,474,322
GTE NORTH-MISSOURI	971,926	1,078,775	1,125,641	1,163,899	1,223,733	1,597,350	1,322,266
UNITED TEL.-MO	1,667,867	1,736,909	1,847,059	1,890,524	1,898,750	2,024,234	1,982,367
SMB-MISSOURI	33,234,536	33,250,766	34,470,746	34,150,430	35,865,989	37,845,744	38,434,984
GTE SOUTHWEST-OKLAHOMA	1,020,008	1,217,113	1,302,900	1,215,131	2,842,444	1,894,354	1,501,200
SMB-OKLAHOMA	19,415,473	19,980,930	21,260,945	21,833,651	21,858,655	21,980,795	21,513,673
GTE SOUTHWEST-TEXAS	10,798,944	12,805,291	13,221,107	12,576,001	29,598,270	19,812,956	16,225,036
UNITED TEL.-TEXAS	0	0	1,029,475	1,053,232	1,108,510	1,153,737	1,218,489
CENDEL-TEXAS	1,208,370	1,318,884	1,454,684	1,539,411	1,691,662	1,830,991	1,908,698
CONTEL-TEXAS	1,225,927	1,323,999	1,457,847	1,514,065	1,684,194	1,812,323	1,878,205
SMB-TEXAS	93,474,566	99,342,024	108,002,820	111,302,850	116,741,672	125,201,729	126,286,046
US WEST-ARIZONA	18,474,715	19,638,494	19,881,613	21,278,202	20,908,511	25,498,766	27,698,289
US WEST-COLORADO	23,271,567	24,913,016	26,877,556	26,847,859	27,674,704	28,887,202	29,613,722
GTE NORTHWEST-IDAHO	695,992	760,289	759,067	796,999	873,443	923,073	920,134
US WEST-IDAHO	4,173,775	4,319,694	4,422,506	4,428,672	4,580,666	4,760,230	4,765,830
US WEST-IDAHO-PNB	351,544	349,557	346,911	366,042	378,142	386,333	377,752
GTE NORTHWEST-MONTANA	59,410	69,028	66,889	77,344	80,973	83,488	82,412
US WEST-MONTANA	3,662,304	3,699,559	3,816,654	3,910,598	4,071,278	4,179,496	4,304,465
GTE SOUTHWEST-NEW MEXICO	480,427	587,872	617,570	521,117	1,145,785	711,851	555,067
US WEST-NEW MEXICO	7,170,952	7,503,885	7,670,165	7,941,502	8,416,051	8,848,623	9,397,331
US WEST-UTAH	10,182,318	10,398,466	10,913,764	11,409,185	11,956,754	12,356,775	12,712,661
UNITED TEL.-WYOMING	0	61,299	59,999	61,433	63,290	66,212	65,633
US WEST-WYOMING	2,772,544	2,904,966	3,016,760	2,911,201	2,694,787	3,086,978	3,029,163
UNITED TEL.-NW-WA	459,324	483,499	503,556	520,680	518,604	556,181	543,159
GTE NORTHWEST-WASHINGTON	4,563,295	4,955,076	5,108,554	5,370,788	5,732,168	6,220,136	6,738,533
US WEST-WASHINGTON	22,409,060	23,187,572	23,391,213	24,632,689	25,179,381	25,822,367	27,265,643
UNITED TEL.-NW-OR	400,463	417,150	407,650	425,196	443,532	549,876	494,945
GTE NORTHWEST-OREGON	2,401,524	3,071,661	3,097,663	3,235,273	3,425,776	3,601,323	3,711,733
US WEST-OREGON	13,861,989	13,804,047	13,523,522	13,976,416	14,119,890	14,345,864	14,549,022
CONTEL-CALIFORNIA	2,082,817	2,191,112	2,313,666	2,391,795	2,519,868	2,750,234	2,916,849

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TOTAL SUBSCRIBER LINE USAGE MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
GTE OF CALIFORNIA	34,127,900	37,962,749	39,661,039	41,763,039	42,509,621	43,703,204	45,894,608
GTE NORTHWEST-CALIFORNIA	73,187	87,541	87,921	92,736	96,451	95,830	95,364
PACIFIC BELL	164,840,838	170,315,985	175,637,189	182,869,278	187,989,062	196,345,687	198,789,295
CENTEL-NV	3,750,282	3,952,822	4,017,874	4,150,515	4,291,461	4,659,993	5,188,204
NEVADA BELL	2,056,650	2,169,200	2,269,536	2,389,738	2,552,996	2,618,375	2,654,888
DIAMOND STATE TELEPHONE	4,901,391	4,984,266	4,986,811	5,188,077	5,516,444	5,682,859	5,924,892
C&P OF WASHINGTON D.C.	13,943,018	14,245,740	14,411,164	14,738,031	15,618,948	15,688,462	15,759,008
NEW ENGLAND TEL.-RHODE ISLAND	7,307,693	7,472,771	7,637,849	7,817,500	8,106,692	8,329,266	8,219,670
GTE HAWAIIAN TELCO	7,460,836	0	7,460,836	7,395,319	7,760,860	9,002,160	9,022,009
PUERTO RICO TELEPHONE CO.	0	0	0	0	7,806,724	7,987,963	8,937,106
ALL OTHER COST COMPANIES	0	0	0	0	73,394,909	82,095,473	91,757,085

TABLE 4.13

LOCAL DIAL EQUIPMENT MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
NEW ENGLAND TEL.-MAINE	4,513,528	4,642,356	4,771,184	4,882,278	5,002,057	4,792,715	4,952,286
NEW ENGLAND TEL.-MA	38,574,742	39,716,541	40,721,636	41,506,206	43,380,280	43,612,281	43,012,791
NEW ENGLAND TEL.-NH	4,118,325	4,249,991	4,381,658	4,489,644	4,910,858	4,976,892	5,020,098
SOUTHERN NEW ENGLAND TEL.	20,071,101	20,110,437	20,319,009	20,618,235	20,983,743	21,594,733	23,300,306
NEW ENGLAND TEL.-VERMONT	1,981,366	2,116,238	2,251,110	2,355,182	2,355,504	2,319,250	2,296,468
CONTEL-NEW YORK	1,494,484	1,586,260	1,624,649	1,672,416	1,720,660	1,763,524	1,816,248
ROCHESTER	0	0	0	0	5,866,206	5,877,676	5,738,413
NEW YORK TELEPHONE	110,824,494	115,845,571	119,478,434	125,487,260	134,850,271	143,167,334	144,618,735
UNITED TEL.-NEW JERSEY	0	571,372	583,045	602,626	663,416	737,315	678,308
NEW JERSEY BELL	44,712,272	46,131,631	45,646,398	46,076,798	47,181,128	46,150,813	45,781,592
GTE NORTH-PA	170,843	182,730	201,418	225,167	4,955,785	4,003,277	5,419,644
UNITED TEL.-PA	2,242,979	2,331,149	2,345,184	2,391,406	2,554,047	2,587,573	2,618,311
BELL OF PENNSYLVANIA	66,682,148	68,624,448	70,476,803	70,438,228	69,276,567	66,363,106	70,331,698
C&P OF MARYLAND	36,679,689	38,385,402	40,441,811	41,645,800	41,732,435	40,546,858	41,880,385
CONTEL-VIRGINIA	0	2,251,776	2,375,104	2,468,393	2,843,493	3,057,223	3,256,535
CENTEL-VIRGINIA	1,945,582	2,020,015	2,160,976	2,209,046	2,145,700	2,325,941	2,363,793
GTE SOUTH-VIRGINIA	412,819	413,641	456,669	436,727	439,999	516,040	449,467
UNITED INTER-MOUNTAIN-VA	1,130,721	1,130,762	1,138,486	1,175,083	1,034,421	963,562	970,859
C&P OF VIRGINIA	29,780,356	30,012,720	30,993,812	32,450,571	33,327,288	34,263,443	35,566,171
GTE SOUTH-WEST VIRGINIA	699,587	695,095	795,622	783,651	789,880	898,579	784,196
C&P OF WEST VIRGINIA	10,095,256	10,245,283	10,164,221	10,216,428	10,279,221	10,301,471	10,259,219
GTE OF FLORIDA	10,846,227	11,207,147	12,689,673	13,582,525	14,291,918	15,544,596	16,479,556
CENTEL OF FLORIDA	1,648,642	1,672,735	1,739,463	1,931,263	2,101,123	2,132,764	2,443,025
UNITED TEL.-FLORIDA	0	5,339,613	5,784,159	5,961,057	6,527,727	6,980,705	7,581,921
SOUTHERN BELL-FLORIDA	43,262,335	44,463,520	46,549,288	49,205,750	50,946,667	52,286,249	52,769,241
GTE SOUTH-GEORGIA	1,834,390	2,014,531	2,092,251	2,167,173	2,168,934	2,566,337	2,349,948
SOUTHERN BELL-GEORGIA	36,244,370	36,938,993	36,956,261	39,128,107	41,879,083	43,161,141	43,956,605
CAROLINA TELEPHONE & TELEGRAPH	7,388,362	7,445,685	7,764,256	8,023,080	8,498,418	8,814,110	8,988,269
CENTEL-NORTH CAROLINA	1,898,366	1,956,614	2,035,657	2,115,755	2,184,700	2,280,917	2,342,276
GTE SOUTH-NORTH CAROLINA	1,274,528	1,397,960	1,498,384	1,576,345	1,867,277	1,791,188	1,657,849
SOUTHERN BELL-NORTH CAROLINA	19,080,388	19,108,284	19,288,338	19,696,302	21,480,822	22,590,386	23,546,030
GTE SOUTH-SOUTH CAROLINA	1,191,603	1,335,970	1,315,234	1,371,233	1,497,350	1,933,975	1,558,436
UNITED OF THE CAROLINAS	690,751	716,262	710,948	753,991	741,018	792,722	828,202
SOUTHERN BELL-SOUTH CAROLINA	14,855,959	14,769,559	15,085,487	15,396,999	16,448,426	17,245,819	17,718,278
GTE SOUTH-ALABAMA	1,078,960	1,244,812	1,345,172	1,347,139	1,391,548	1,754,821	1,413,387
SOUTH CENTRAL BELL-ALABAMA	22,105,838	22,683,351	23,138,321	24,093,295	24,610,448	25,131,672	25,932,481
GTE SOUTH-KENTUCKY	3,025,878	3,777,443	3,809,040	3,915,869	4,088,526	4,179,282	4,270,038
CINCINNATI BELL-KENTUCKY	2,179,524	2,204,676	2,245,622	2,258,411	2,277,416	2,336,532	2,326,071
SOUTH CENTRAL BELL-KENTUCKY	14,542,898	14,554,468	14,748,592	14,849,949	15,655,339	15,945,514	15,159,806
SOUTH CENTRAL BELL-LOUISIANA	29,161,404	30,897,013	32,373,556	32,950,113	32,796,721	32,421,145	31,905,656
SOUTH CENTRAL BELL-MISSISSIPPI	12,731,693	12,758,972	13,298,224	13,561,685	13,919,405	14,861,844	14,787,183
GTE SOUTH-TENNESSEE	549,278	543,096	559,708	549,266	567,873	726,516	609,730
UNITED INTER-MOUNTAIN-TN	2,276,145	2,336,028	2,306,390	2,328,409	2,280,291	2,353,250	2,459,811
SOUTH CENTRAL BELL-TENNESSEE	29,694,880	29,113,801	29,793,836	30,038,453	31,137,621	32,352,780	33,664,863
GTE NORTH-OHIO	5,702,847	6,456,432	6,574,091	6,663,704	7,090,769	8,958,897	7,506,384
CENTEL-OHIO	0	730,097	695,196	704,671	740,366	765,184	768,115
UNITED TEL.-OHIO	4,068,201	4,167,892	4,212,345	4,149,962	4,307,463	4,450,958	4,682,698
CINCINNATI BELL-OHIO	11,370,809	11,024,703	11,295,717	11,470,662	12,173,295	11,803,633	11,792,093
OHIO BELL	50,351,530	49,607,580	50,024,755	51,757,398	54,218,560	53,487,846	50,410,045
GTE NORTH-MICHIGAN	4,139,113	4,534,839	4,535,512	4,521,997	5,777,863	5,924,288	4,757,796
MICHIGAN BELL	56,871,261	56,667,348	56,340,061	57,464,171	58,012,062	57,219,830	58,186,528
GTE NORTH-INDIANA	5,524,422	5,905,646	6,012,326	6,216,814	6,788,529	8,264,047	6,946,289
UNITED TEL.-INDIANA	1,266,664	1,322,972	1,392,948	1,365,961	1,440,710	1,433,315	1,481,146

TABLE 4.13

LOCAL DIAL EQUIPMENT MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
INDIANA BELL	22,911,391	22,662,496	23,406,142	23,298,239	23,749,071	23,543,409	23,483,220
GTE NORTH-WISCONSIN	2,454,307	2,724,603	2,779,897	2,783,071	2,835,514	3,626,017	2,943,002
WISCONSIN BELL	21,541,487	20,668,575	21,083,811	20,825,534	20,961,279	21,486,760	21,678,189
CENTEL-ILLINOIS	0	2,046,485	2,100,342	2,126,227	2,174,638	2,067,248	2,032,712
GTE NORTH-ILLINOIS	4,219,892	5,073,945	5,143,785	5,267,921	5,605,055	6,958,488	5,318,964
ILLINOIS BELL	70,185,973	70,593,405	72,400,690	73,281,679	78,018,209	80,018,384	79,497,515
GTE NORTH-IOWA	716,182	766,251	814,837	824,535	884,134	3,671,151	815,589
UNITED TEL.-IOWA	0	473,371	491,913	497,804	485,660	495,232	487,514
US WEST-IOWA	10,879,248	10,601,791	9,829,114	10,872,073	11,243,986	11,001,119	11,087,957
GTE NORTH-MN	22,498	24,117	24,777	24,273	23,521	178,255	21,837
CENTEL-MN	597,952	641,863	668,602	720,340	724,767	766,734	787,456
UNITED TEL.-MINNESOTA	0	786,298	822,156	864,230	876,902	960,574	989,473
US WEST-MINNESOTA	21,404,079	21,283,410	22,497,479	23,488,720	24,490,091	24,293,079	24,737,951
GTE NORTH-NEBRASKA	328,279	331,425	375,787	390,747	397,392	383,750	370,107
LINCOLN TEL. & TEL.	1,923,116	1,950,750	2,035,625	2,148,287	2,254,255	2,278,543	2,277,149
UNITED TEL.-NEBRASKA	0	225,819	224,670	232,046	212,495	232,220	227,248
US WEST-NEBRASKA	6,149,668	5,594,880	5,847,723	6,042,953	6,639,512	6,222,227	6,166,858
US WEST-NORTH DAKOTA	2,713,941	2,767,111	2,915,644	2,912,502	3,005,903	2,928,214	2,822,722
US WEST-SOUTH DAKOTA	2,400,660	2,377,861	1,857,410	2,467,895	2,580,419	2,611,484	2,606,229
UNITED TEL.-ARKANSAS	127,680	127,513	130,174	127,453	131,546	135,053	126,775
GTE SOUTHWEST-ARKANSAS	593,649	686,709	699,243	647,629	1,530,904	945,072	743,844
SMB-ARKANSAS	8,513,605	8,383,415	8,657,969	9,045,151	9,558,759	9,648,155	9,754,987
UNITED TEL.-KANSAS	473,442	471,503	482,806	495,885	489,453	479,740	450,518
SMB-KANSAS	12,061,420	11,736,565	11,939,447	12,303,799	12,492,728	13,082,685	13,101,980
GTE NORTH-MISSOURI	728,344	797,564	839,013	857,438	895,457	913,082	911,085
UNITED TEL.-MO	1,185,508	1,214,915	1,292,753	1,310,798	1,323,084	1,326,683	1,305,694
SMB-MISSOURI	28,915,911	28,856,561	30,046,802	29,706,300	30,889,140	31,892,613	32,596,184
GTE SOUTHWEST-OKLAHOMA	757,827	886,835	952,664	880,043	2,073,079	1,358,901	1,068,347
SMB-OKLAHOMA	15,946,633	16,142,576	17,099,619	17,696,832	17,460,114	17,166,135	16,928,804
GTE SOUTHWEST-TEXAS	8,560,980	10,093,519	10,428,489	9,928,150	23,136,159	15,134,036	12,281,719
UNITED TEL.-TEXAS	0	0	721,931	745,401	741,121	740,034	799,971
CENTEL-TEXAS	942,070	987,760	1,120,301	1,177,923	1,249,872	1,324,467	1,354,594
CONTEL-TEXAS	844,285	877,137	952,698	999,840	1,081,504	1,118,527	1,172,857
SMB-TEXAS	80,721,212	85,089,990	92,339,105	95,696,173	97,578,677	102,656,897	104,580,091
US WEST-ARIZONA	15,584,317	16,565,590	16,698,491	17,828,677	19,184,921	20,610,316	22,182,883
US WEST-COLORADO	19,545,165	20,673,872	22,270,279	22,016,287	22,261,892	22,788,790	22,840,184
GTE NORTHWEST-IDAHO	510,207	545,412	542,521	565,742	593,214	620,685	615,497
US WEST-IDAHO	3,388,039	3,487,223	3,565,347	3,518,012	3,515,802	3,498,350	3,468,345
US WEST-IDAHO-PNB	285,187	281,735	279,203	291,942	295,915	297,307	284,526
GTE NORTHWEST-MONTANA	44,747	52,034	50,140	59,469	60,365	61,261	59,629
US WEST-MONTANA	2,816,147	2,779,264	2,864,462	2,870,688	2,971,842	2,978,324	3,042,205
GTE SOUTHWEST-NEW MEXICO	379,749	459,795	480,225	399,775	859,555	516,598	419,375
US WEST-NEW MEXICO	6,353,651	6,291,930	6,360,725	6,582,005	6,832,567	7,057,675	7,411,937
US WEST-UTAH	8,757,669	8,813,989	9,230,862	9,221,559	10,027,620	10,051,251	10,232,334
UNITED TEL.-WYOMING	0	44,553	44,214	45,390	46,061	44,991	43,188
US WEST-WYOMING	2,621,075	2,120,276	2,225,671	2,128,196	2,083,871	2,122,211	2,064,328
UNITED TEL.-NW-WA	302,743	309,423	319,723	324,011	319,609	334,714	323,425
GTE NORTHWEST-WASHINGTON	3,665,944	3,916,296	4,014,695	4,172,178	4,470,118	4,768,059	5,169,924
US WEST-WASHINGTON	19,021,381	19,399,936	19,393,959	20,372,133	20,445,902	19,842,732	21,168,721
UNITED TEL.-NW-OR	252,438	257,420	249,103	257,541	268,347	336,365	298,698
GTE NORTHWEST-OREGON	1,862,754	2,376,559	2,401,625	2,508,705	2,661,338	2,813,972	2,843,639
US WEST-OREGON	11,468,403	11,397,319	10,980,335	11,398,052	11,500,756	10,651,496	10,895,482
CONTEL-CALIFORNIA	1,422,726	1,467,587	1,543,603	1,572,809	1,645,032	1,762,637	1,834,248

TABLE 4.13

LOCAL DIAL EQUIPMENT MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
GTE OF CALIFORNIA	25,503,496	27,888,290	29,200,875	30,864,953	31,129,279	31,876,281	32,523,471
GTE NORTHWEST-CALIFORNIA	48,480	59,349	61,174	66,256	68,612	66,892	66,529
PACIFIC BELL	131,286,664	134,695,786	139,028,393	142,332,937	142,506,508	144,801,816	145,424,193
CENTEL-NV	3,158,671	3,317,244	3,359,959	3,455,307	3,352,977	3,729,753	3,878,229
NEVADA BELL	1,600,926	1,669,716	1,759,583	1,823,919	1,902,635	1,906,888	1,955,837
DIAMOND STATE TELEPHONE	4,168,874	4,223,911	4,214,206	4,356,202	4,466,081	4,379,185	4,674,729
C&P OF WASHINGTON D.C.	12,045,153	12,274,859	12,438,958	12,670,231	13,161,515	12,616,117	12,802,759
NEW ENGLAND TEL.-RHODE ISLAND	6,294,928	6,410,899	6,526,870	6,638,871	6,795,192	6,765,419	6,651,566
GTE HAWAIIAN TELCO	0	0	6,788,409	6,645,671	6,992,440	7,956,394	7,858,106
PUERTO RICO TELEPHONE CO.	0	0	0	0	6,598,741	6,470,572	7,186,926
ALL OTHER COST COMPANIES	0	0	0	0	52,756,306	58,729,154	65,450,150

TABLE 4.14

STATE DIAL EQUIPMENT MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
NEW ENGLAND TEL.-MAINE	607,294	640,919	674,544	730,642	797,002	916,369	949,327
NEW ENGLAND TEL.-MA	3,830,989	4,006,967	4,182,945	4,512,816	5,138,012	5,973,708	6,842,891
NEW ENGLAND TEL.-NH	468,650	508,558	548,466	611,076	686,512	787,636	942,367
SOUTHERN NEW ENGLAND TEL.	2,462,911	2,596,230	2,756,719	2,867,289	3,013,862	3,307,838	3,641,306
NEW ENGLAND TEL.-VERMONT	273,190	284,721	296,252	314,739	341,399	356,835	405,331
CONTEL-NEW YORK	377,385	421,488	452,299	488,871	556,546	633,222	695,176
ROCHESTER	0	0	0	0	755,107	805,967	865,329
NEW YORK TELEPHONE	4,886,837	5,194,639	5,552,564	6,134,268	6,498,827	6,653,036	7,637,548
UNITED TEL.-NEW JERSEY	0	353,069	378,442	409,631	458,504	572,130	669,003
NEW JERSEY BELL	10,194,701	10,641,782	11,336,223	12,357,451	14,209,161	15,230,936	16,891,133
GTE NORTH-PA	61,167	70,931	80,646	85,577	1,043,811	1,208,147	1,237,376
UNITED TEL.-PA	423,916	449,207	464,354	493,686	585,990	623,371	693,364
BELL OF PENNSYLVANIA	4,568,639	4,909,148	5,224,948	5,526,149	8,062,207	9,635,335	7,752,118
C&P OF MARYLAND	1,127,149	1,196,776	1,254,382	1,305,138	1,394,495	1,590,471	1,779,045
CONTEL-VIRGINIA	0	426,992	465,696	486,539	570,013	771,324	789,436
CENTEL-VIRGINIA	248,231	275,155	293,689	310,234	359,094	343,632	350,013
GTE SOUTH-VIRGINIA	70,722	77,449	83,602	80,142	90,875	120,181	104,088
UNITED INTER-MOUNTAIN-VA	0	83,686	86,793	87,001	99,816	112,841	119,264
C&P OF VIRGINIA	1,588,923	1,674,972	1,752,517	1,826,539	2,182,925	2,698,694	2,766,194
GTE SOUTH-WEST VIRGINIA	131,589	138,760	152,993	154,382	180,570	239,485	208,642
C&P OF WEST VIRGINIA	749,251	787,193	807,210	791,140	930,154	1,127,166	1,078,878
GTE OF FLORIDA	1,456,307	1,575,669	1,788,369	1,859,235	2,531,172	2,931,838	3,332,504
CENTEL OF FLORIDA	176,867	187,408	212,303	235,218	264,229	308,834	387,773
UNITED TEL.-FLORIDA	0	751,426	848,952	993,365	1,104,224	1,389,793	1,450,702
SOUTHERN BELL-FLORIDA	2,845,355	3,153,575	3,455,881	3,726,445	5,020,309	6,239,152	7,643,551
GTE SOUTH-GEORGIA	473,159	535,813	549,909	588,828	641,041	856,776	823,896
SOUTHERN BELL-GEORGIA	1,785,058	1,889,880	1,987,666	2,023,693	2,496,022	3,108,951	3,110,201
CAROLINA TELEPHONE & TELEGRAPH	877,130	912,589	950,173	1,032,740	1,154,996	1,347,741	1,479,775
CENTEL-NORTH CAROLINA	232,588	251,361	257,315	278,990	398,331	337,655	366,707
GTE SOUTH-NORTH CAROLINA	207,392	222,737	239,964	268,869	286,270	388,923	402,965
SOUTHERN BELL-NORTH CAROLINA	1,631,957	1,766,216	1,870,619	1,973,481	2,346,175	2,736,776	3,083,320
GTE SOUTH-SOUTH CAROLINA	268,533	295,145	299,006	315,135	364,478	521,712	437,388
UNITED OF THE CAROLINAS	0	68,234	69,503	73,517	94,729	111,480	116,469
SOUTHERN BELL-SOUTH CAROLINA	781,931	837,886	846,256	867,709	1,073,115	1,285,104	1,369,599
GTE SOUTH-ALABAMA	230,014	262,299	280,733	296,428	343,878	443,329	376,724
SOUTH CENTRAL BELL-ALABAMA	1,094,713	1,161,585	1,213,248	1,252,281	1,460,439	1,684,132	1,826,713
GTE SOUTH-KENTUCKY	435,404	538,130	553,468	564,301	575,689	675,860	776,030
CINCINNATI BELL-KENTUCKY	43,462	42,207	47,919	55,067	59,449	76,077	75,971
SOUTH CENTRAL BELL-KENTUCKY	774,937	800,594	805,033	825,109	974,177	1,064,132	1,156,885
SOUTH CENTRAL BELL-LOUISIANA	1,848,700	2,065,734	2,207,224	2,210,188	2,900,100	3,194,533	2,844,749
SOUTH CENTRAL BELL-MISSISSIPPI	949,237	982,022	1,025,662	1,080,952	1,293,617	1,465,415	1,514,310
GTE SOUTH-TENNESSEE	91,005	96,690	123,425	130,304	145,969	215,515	179,425
UNITED INTER-MOUNTAIN-TN	0	145,746	151,701	161,086	229,255	275,292	309,987
SOUTH CENTRAL BELL-TENNESSEE	1,325,105	1,429,352	1,510,456	1,567,055	1,961,068	2,327,188	2,490,419
GTE NORTH-OHIO	1,769,807	2,045,044	2,128,085	2,140,824	2,215,175	2,978,267	2,511,506
CENTEL-OHIO	0	86,733	88,979	87,181	89,899	101,771	116,635
UNITED TEL.-OHIO	699,889	750,319	791,471	821,221	875,626	950,150	986,572
CINCINNATI BELL-OHIO	277,712	293,672	329,866	349,035	355,594	537,460	529,636
OHIO BELL	2,942,625	2,958,658	3,022,524	3,076,803	3,739,579	4,391,612	4,845,618
GTE NORTH-MICHIGAN	2,013,529	2,211,914	2,214,986	2,253,779	3,002,845	3,268,096	2,713,316
MICHIGAN BELL	5,269,534	5,535,674	5,615,334	5,863,891	7,819,813	9,908,487	10,031,836
GTE NORTH-INDIANA	946,483	1,082,728	1,139,558	1,188,131	1,288,112	1,723,526	1,461,662
UNITED TEL.-INDIANA	247,600	264,134	276,399	289,539	335,712	352,279	373,764



TABLE 4.14

STATE DIAL EQUIPMENT MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
INDIANA BELL	1,249,929	1,316,610	1,384,808	1,430,469	1,745,752	1,974,978	2,056,149
GTE NORTH-WISCONSIN	1,018,398	1,143,802	1,197,617	1,228,116	1,263,528	1,670,148	1,384,848
WISCONSIN BELL	1,498,433	1,587,790	1,689,031	1,731,619	1,879,959	2,043,957	2,158,412
CENTEL-ILLINOIS	0	180,916	185,198	192,240	217,201	228,751	252,323
GTE NORTH-ILLINOIS	2,054,697	2,579,589	2,752,656	2,772,130	2,854,248	2,928,210	3,002,171
ILLINOIS BELL	2,790,901	2,787,755	2,838,036	2,997,045	3,461,162	3,593,255	3,807,459
GTE NORTH-IOWA	404,320	461,919	491,328	525,401	524,844	1,387,282	547,304
UNITED TEL.-IOWA	0	111,547	120,308	122,293	131,561	146,576	147,484
US WEST-IOWA	1,147,245	1,202,196	1,254,510	1,287,712	1,339,035	1,437,483	1,517,061
GTE NORTH-MN	14,008	16,388	18,331	20,047	19,302	111,126	18,903
CENTEL-MN	76,190	83,634	90,434	98,834	103,908	114,320	120,098
UNITED TEL.-MINNESOTA	0	112,953	123,088	132,169	141,295	166,375	173,664
US WEST-MINNESOTA	1,132,969	1,200,320	1,279,068	1,357,711	1,516,590	1,754,456	1,843,026
GTE NORTH-NEBRASKA	136,494	147,308	173,351	184,294	191,152	202,487	213,821
LINCOLN TEL. & TEL.	281,175	299,881	329,033	339,257	358,462	357,440	356,330
UNITED TEL.-NEBRASKA	0	20,624	21,787	23,028	22,774	28,550	26,855
US WEST-NEBRASKA	378,570	404,453	430,088	452,228	556,714	503,039	517,877
US WEST-NORTH DAKOTA	281,200	307,504	320,539	324,811	360,113	410,186	402,090
US WEST-SOUTH DAKOTA	273,420	289,120	306,493	317,986	343,844	387,891	395,959
UNITED TEL.-ARKANSAS	26,039	0	26,277	26,812	27,584	31,158	31,967
GTE SOUTHWEST-ARKANSAS	217,569	242,148	232,513	220,325	495,548	353,459	285,238
SWB-ARKANSAS	881,219	940,794	948,497	971,418	1,082,071	1,155,875	1,198,874
UNITED TEL.-KANSAS	137,789	0	144,670	147,607	144,976	157,179	151,101
SWB-KANSAS	1,175,875	1,291,522	1,301,360	1,319,726	1,464,954	1,531,882	1,526,923
GTE NORTH-MISSOURI	295,928	347,430	348,233	361,144	358,577	421,218	436,331
UNITED TEL.-MO	318,108	337,421	345,327	350,149	361,560	399,234	403,902
SWB-MISSOURI	1,557,561	1,616,769	1,631,384	1,592,922	1,755,498	1,955,040	2,040,331
GTE SOUTHWEST-OKLAHOMA	358,948	440,948	464,878	448,656	1,002,494	658,630	505,548
SWB-OKLAHOMA	1,723,453	1,928,889	2,099,821	2,116,230	2,256,500	2,425,955	2,321,102
GTE SOUTHWEST-TEXAS	2,826,598	3,395,137	3,542,360	3,366,959	7,794,429	5,353,650	4,424,142
UNITED TEL.-TEXAS	0	0	545,215	544,974	631,937	345,356	346,243
CENTEL-TEXAS	144,001	156,466	198,838	298,610	249,498	264,715	279,095
CONTEL-TEXAS	309,931	364,361	410,108	417,840	485,794	542,342	558,422
SWB-TEXAS	6,984,194	7,866,492	8,534,288	8,299,948	12,889,495	14,184,440	13,925,107
US WEST-ARIZONA	773,173	854,095	899,953	894,903	1,184,770	1,455,272	1,726,277
US WEST-COLORADO	1,198,914	1,340,764	1,464,981	1,519,353	1,892,803	2,178,513	2,366,840
GTE NORTHWEST-IDAHO	139,431	153,472	155,834	164,986	184,270	203,553	207,765
US WEST-IDAHO	367,713	383,959	390,840	407,341	488,503	550,562	554,454
US WEST-IDAHO-PNB	28,895	29,023	29,778	31,820	34,841	35,835	37,003
GTE NORTHWEST-MONTANA	15,120	16,649	16,170	17,351	18,700	20,049	20,701
US WEST-MONTANA	440,074	463,298	479,170	511,165	556,319	583,396	637,772
GTE SOUTHWEST-NEW MEXICO	64,539	80,371	92,478	82,659	194,845	120,790	83,425
US WEST-NEW MEXICO	413,868	443,550	485,720	494,732	601,606	622,241	679,962
US WEST-UTAH	607,973	662,798	649,724	653,533	759,408	859,762	931,975
UNITED TEL.-WYOMING	0	6,487	6,061	6,374	6,116	7,647	7,668
US WEST-WYOMING	295,670	288,983	292,547	276,788	318,403	366,885	353,934
UNITED TEL.-NW-WA	117,733	119,359	126,657	134,617	130,314	145,941	149,268
GTE NORTHWEST-WASHINGTON	871,391	925,055	995,260	1,083,720	1,174,080	1,264,439	1,358,185
US WEST-WASHINGTON	1,707,320	1,862,792	1,960,852	2,107,864	2,487,227	3,300,165	2,805,147
UNITED TEL.-NW-OR	108,188	110,267	108,367	113,236	114,335	137,405	124,490
GTE NORTHWEST-OREGON	484,819	585,171	584,560	601,996	609,312	616,627	651,515
US WEST-OREGON	1,188,001	1,121,697	1,253,644	1,312,779	1,406,290	1,545,506	1,635,618
CONTEL-CALIFORNIA	528,928	583,532	616,939	649,199	690,091	769,786	836,929

TABLE 4.14

STATE DIAL EQUIPMENT MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
GTE OF CALIFORNIA	9,998,346	11,502,696	11,787,687	11,975,598	9,544,871	12,227,424	13,646,581
GTE NORTHWEST-CALIFORNIA	30,659	34,540	32,470	31,165	32,068	33,597	35,365
PACIFIC BELL	23,822,945	25,456,583	26,028,145	27,838,082	32,715,188	36,590,160	39,944,360
CENTEL-NV	44,757	49,656	50,865	57,725	61,241	70,168	90,922
NEVADA BELL	80,856	90,660	91,294	95,978	114,861	146,621	176,915
DIAMOND STATE TELEPHONE	112,942	120,355	126,498	143,724	283,776	380,753	202,997
C&P OF WASHINGTON D.C.	0	0	0	0	0	0	0
NEW ENGLAND TEL.-RHODE ISLAND	308,779	321,939	335,099	349,461	371,858	404,467	453,897
GTE HAWAIIAN TELCO	0	0	380,208	414,079	447,950	486,792	525,634
PUERTO RICO TELEPHONE CO.	0	0	0	0	704,200	890,926	1,017,443
ALL OTHER COST COMPANIES	0	0	0	0	24,504,391	26,295,704	30,382,691

TABLE 4.15

INTERSTATE DIAL EQUIPMENT MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
NEW ENGLAND TEL.-MAINE	481,232	529,080	576,927	643,697	742,498	897,070	1,036,954
NEW ENGLAND TEL.-MA	4,000,151	4,339,592	4,679,033	4,970,845	6,555,249	7,551,389	8,415,414
NEW ENGLAND TEL.-NH	806,688	877,109	956,972	1,073,885	1,279,451	1,566,429	1,876,837
SOUTHERN NEW ENGLAND TEL.	2,845,808	2,996,794	3,135,400	3,425,079	4,214,299	5,062,052	5,517,896
NEW ENGLAND TEL.-VERMONT	392,561	420,731	448,901	490,731	566,573	631,968	715,032
CONTEL-NEW YORK	132,050	146,814	158,648	173,657	205,253	254,046	290,771
ROCHESTER	0	0	0	0	522,042	623,784	758,172
NEW YORK TELEPHONE	10,951,040	11,793,369	12,968,685	14,543,220	18,537,353	22,079,790	24,005,266
UNITED TEL.-NEW JERSEY	0	142,699	152,963	171,269	193,581	255,092	286,055
NEW JERSEY BELL	7,180,151	7,573,124	8,021,729	8,783,718	10,634,140	13,143,557	13,356,233
GTE NORTH-PA	23,906	28,448	31,670	32,985	744,683	694,347	984,797
UNITED TEL.-PA	192,534	209,889	213,853	228,291	295,613	330,012	363,440
BELL OF PENNSYLVANIA	5,524,171	5,869,291	6,295,701	6,971,770	8,828,781	10,509,562	10,175,410
C&P OF MARYLAND	2,832,780	2,981,293	3,096,583	3,346,386	3,872,145	4,748,721	5,439,027
CONTEL-VIRGINIA	0	303,651	331,357	357,602	483,365	604,009	729,320
CENTEL-VIRGINIA	214,498	231,961	247,944	277,926	298,565	356,143	385,920
GTE SOUTH-VIRGINIA	70,085	76,121	80,447	74,928	89,087	113,186	101,625
UNITED INTER-MOUNTAIN-VA	0	93,398	97,951	102,145	112,911	124,286	133,156
C&P OF VIRGINIA	2,632,741	2,785,022	2,910,693	3,216,016	4,059,373	4,694,223	5,058,579
GTE SOUTH-WEST VIRGINIA	165,509	174,781	188,309	187,013	222,355	282,862	273,904
C&P OF WEST VIRGINIA	812,366	862,245	869,138	910,866	1,054,678	1,178,908	1,261,390
GTE OF FLORIDA	1,912,279	2,172,483	2,538,834	2,627,321	3,064,132	3,641,052	4,217,972
CENTEL OF FLORIDA	197,031	220,033	246,498	275,439	299,574	351,459	432,685
UNITED TEL.-FLORIDA	0	895,484	1,004,883	1,077,248	1,115,222	1,388,248	1,611,912
SOUTHERN BELL-FLORIDA	4,630,497	5,038,943	5,530,504	6,194,662	7,382,908	8,395,685	9,713,552
GTE SOUTH-GEORGIA	265,872	298,693	299,437	320,816	2,873,336	500,179	492,594
SOUTHERN BELL-GEORGIA	3,363,465	3,632,361	3,886,046	4,078,412	4,805,664	5,635,108	6,350,719
CAROLINA TELEPHONE & TELEGRAPH	620,701	653,659	697,556	787,820	928,639	1,161,454	1,338,642
CENTEL-NORTH CAROLINA	126,729	139,369	141,794	160,773	251,204	214,546	244,214
GTE SOUTH-NORTH CAROLINA	184,068	219,931	241,497	284,760	303,709	477,794	482,192
SOUTHERN BELL-NORTH CAROLINA	1,551,054	1,743,001	1,855,623	2,057,744	2,383,923	2,756,473	3,189,764
GTE SOUTH-SOUTH CAROLINA	264,257	307,840	315,139	352,371	364,958	591,067	539,360
UNITED OF THE CAROLINAS	0	74,776	80,845	86,832	103,325	112,586	115,255
SOUTHERN BELL-SOUTH CAROLINA	1,059,627	1,168,718	1,247,990	1,394,185	1,587,494	1,734,012	2,291,694
GTE SOUTH-ALABAMA	220,799	261,306	274,245	290,207	349,932	463,271	423,622
SOUTH CENTRAL BELL-ALABAMA	1,497,743	1,603,292	1,674,554	1,780,567	2,148,876	2,829,012	3,104,312
GTE SOUTH-KENTUCKY	454,062	577,755	589,743	580,402	640,938	820,657	1,000,376
CINCINNATI BELL-KENTUCKY	97,102	100,990	118,896	148,218	160,033	234,271	235,492
SOUTH CENTRAL BELL-KENTUCKY	1,048,232	1,095,569	1,125,577	1,165,423	1,416,849	1,715,259	1,912,517
SOUTH CENTRAL BELL-LOUISIANA	1,911,256	2,108,510	2,247,591	2,411,470	2,886,059	3,604,593	3,601,947
SOUTH CENTRAL BELL-MISSISSIPPI	1,072,552	1,152,060	1,203,661	1,278,256	1,476,806	1,939,545	2,190,422
GTE SOUTH-TENNESSEE	69,856	81,911	105,588	110,493	118,573	195,484	159,068
UNITED INTER-MOUNTAIN-TN	0	185,740	196,934	207,788	226,524	273,800	291,307
SOUTH CENTRAL BELL-TENNESSEE	2,069,105	2,245,223	2,531,794	2,787,260	3,578,415	4,357,912	4,716,573
GTE NORTH-OHIO	859,755	998,700	999,173	1,011,295	1,135,004	1,572,517	1,432,998
CENTEL-OHIO	0	44,157	46,754	47,637	63,456	76,927	85,988
UNITED TEL.-OHIO	323,585	346,944	375,648	404,453	464,514	560,625	581,141
CINCINNATI BELL-OHIO	653,777	697,353	799,596	851,738	924,167	1,588,109	1,610,516
OHIO BELL	3,392,011	3,535,328	3,872,616	4,176,169	5,209,362	5,486,147	6,889,191
GTE NORTH-MICHIGAN	573,072	652,371	675,526	697,437	1,021,948	1,143,617	1,014,591
MICHIGAN BELL	3,321,958	3,426,943	3,683,537	3,896,599	5,066,059	6,272,655	7,012,049
GTE NORTH-INDIANA	947,591	1,112,165	1,123,352	1,159,988	1,340,567	1,885,218	1,709,003
UNITED TEL.-INDIANA	145,549	166,703	173,543	183,417	195,895	206,149	222,994

TABLE 4.15

INTERSTATE DIAL EQUIPMENT MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
INDIANA BELL	1,779,795	1,907,751	2,036,134	2,220,221	2,547,018	3,310,054	3,310,792
GTE NORTH-WISCONSIN	508,550	577,150	587,705	613,829	677,149	925,964	783,211
WISCONSIN BELL	1,521,834	1,644,665	1,814,035	1,979,074	2,447,595	2,953,633	3,204,192
CENDEL-ILLINOIS	0	223,332	218,271	244,077	275,153	298,729	375,091
GTE NORTH-ILLINOIS	799,582	1,053,437	1,117,143	1,141,142	1,165,140	1,189,138	1,280,033
ILLINOIS BELL	6,488,720	6,667,386	6,872,674	7,600,472	9,526,466	10,828,073	11,018,014
GTE NORTH-IOWA	157,514	194,178	206,401	220,447	235,911	643,050	265,962
UNITED TEL.-IOWA	0	48,633	53,967	57,264	65,644	86,590	92,373
US WEST-IOWA	1,100,205	1,158,480	1,228,389	1,384,028	1,808,375	2,459,895	2,658,576
GTE NORTH-MN	6,006	7,222	7,834	8,768	8,874	55,665	9,025
CENDEL-MN	47,577	53,132	55,491	59,626	71,325	80,588	92,897
UNITED TEL.-MINNESOTA	0	47,620	49,605	54,281	60,250	80,239	92,295
US WEST-MINNESOTA	1,798,542	1,920,452	1,847,792	2,242,417	2,525,080	3,746,188	4,044,167
GTE NORTH-NEBRASKA	59,814	64,405	73,310	79,491	88,280	102,495	116,711
LINCOLN TEL. & TEL.	213,534	226,014	235,231	234,282	289,835	317,463	354,921
UNITED TEL.-NEBRASKA	0	33,100	34,125	35,093	34,740	44,457	43,267
US WEST-NEBRASKA	87,506	789,996	819,240	875,469	1,092,993	1,289,615	1,401,125
US WEST-NORTH DAKOTA	298,558	334,594	320,664	365,181	418,177	554,213	580,483
US WEST-SOUTH DAKOTA	300,992	327,845	350,736	383,601	451,104	533,444	678,831
UNITED TEL.-ARKANSAS	17,203	0	19,780	20,191	21,252	25,518	28,908
GTE SOUTHWEST-ARKANSAS	137,948	160,330	157,286	145,876	333,858	255,787	226,268
SWB-ARKANSAS	823,675	909,055	957,138	1,032,267	1,273,145	1,614,309	1,710,686
UNITED TEL.-KANSAS	93,867	0	97,757	105,638	107,939	117,542	125,786
SWB-KANSAS	1,160,506	1,271,956	1,322,313	1,458,428	1,774,384	2,161,698	2,300,591
GTE NORTH-MISSOURI	157,058	180,001	185,309	207,755	228,747	271,263	309,779
UNITED TEL.-MO	156,558	174,113	196,240	213,860	197,009	284,125	297,797
SWB-MISSOURI	2,662,348	2,737,764	2,896,575	3,082,351	3,722,191	4,899,109	4,959,921
GTE SOUTHWEST-OKLAHOMA	190,949	229,168	239,521	219,410	504,050	368,848	318,885
SWB-OKLAHOMA	1,593,286	1,758,604	1,996,686	2,033,535	2,443,386	2,819,328	2,722,611
GTE SOUTHWEST-TEXAS	1,185,496	1,403,933	1,398,527	1,307,056	3,216,859	2,312,967	2,196,302
UNITED TEL.-TEXAS	0	0	104,010	96,237	124,148	70,320	73,187
CENDEL-TEXAS	115,787	124,399	153,555	137,835	199,066	220,326	272,454
CONTEL-TEXAS	69,876	80,541	93,177	93,532	117,683	164,690	161,097
SWB-TEXAS	5,462,395	6,303,649	7,266,292	7,703,267	9,653,834	12,694,673	12,462,579
US WEST-ARIZONA	2,119,201	2,264,055	2,393,610	2,639,521	3,351,450	4,105,610	4,544,338
US WEST-COLORADO	2,568,955	2,947,492	3,253,427	3,496,208	4,151,030	4,761,213	5,274,369
GTE NORTHWEST-IDAHO	227,844	261,253	257,799	270,040	317,984	365,927	374,046
US WEST-IDAHO	418,023	448,512	468,383	514,587	636,160	831,983	834,329
US WEST-IDAHO-PNB	38,262	38,800	38,330	42,280	48,108	53,191	57,234
GTE NORTHWEST-MONTANA	17,350	20,862	20,668	21,901	25,465	29,029	29,545
US WEST-MONTANA	406,083	456,997	473,066	474,419	553,432	681,303	678,485
GTE SOUTHWEST-NEW MEXICO	115,801	146,652	158,621	138,427	313,155	189,266	135,996
US WEST-NEW MEXICO	701,433	765,658	834,163	888,952	1,058,905	1,343,613	1,487,821
US WEST-UTAH	827,790	936,423	983,291	1,640,406	1,384,918	1,825,405	1,805,518
UNITED TEL.-WYOMING	0	10,245	9,701	9,602	10,954	13,574	14,917
US WEST-WYOMING	466,044	496,682	534,652	527,802	598,193	673,431	675,180
UNITED TEL.-NW-WA	52,869	54,717	57,176	62,052	68,681	76,310	77,177
GTE NORTHWEST-WASHINGTON	552,886	628,476	644,603	691,413	769,003	846,592	931,325
US WEST-WASHINGTON	1,750,767	1,929,399	2,054,364	2,211,197	2,647,780	3,698,903	3,706,417
UNITED TEL.-NW-OR	47,764	49,463	50,180	54,419	60,850	76,142	76,179
GTE NORTHWEST-OREGON	368,159	466,506	457,082	476,501	509,803	543,104	659,184
US WEST-OREGON	1,205,585	1,287,954	1,304,475	1,312,199	487,361	2,839,645	2,341,107
CONTEL-CALIFORNIA	131,163	139,993	153,124	169,787	184,781	221,760	251,434

TABLE 4.15

INTERSTATE DIAL EQUIPMENT MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
GTE OF CALIFORNIA	2,817,455	3,200,120	3,217,464	3,335,307	2,712,391	4,046,866	4,789,179
GTE NORTHWEST-CALIFORNIA	17,074	20,172	19,370	20,182	22,044	22,279	21,790
PACIFIC BELL	10,031,438	10,573,128	11,370,185	13,237,335	16,923,240	19,495,440	19,785,340
CENTEL-NV	730,090	803,243	776,945	791,325	1,150,878	1,137,211	1,660,049
NEVADA BELL	376,896	410,934	429,559	490,227	570,265	627,573	648,130
DIAMOND STATE TELEPHONE	629,897	648,772	660,499	715,602	897,633	1,100,698	1,210,965
C&P OF WASHINGTON D.C.	1,324,409	1,396,729	1,499,763	1,769,730	2,447,904	3,336,366	3,495,417
NEW ENGLAND TEL.-RHODE ISLAND	717,921	762,832	807,743	880,460	1,049,400	1,252,675	1,408,417
GTE HAWAIIAN TELCO	0	0	759,395	819,900	880,405	1,111,360	1,342,314
PUERTO RICO TELEPHONE CO.	0	0	0	0	502,266	625,534	731,158
ALL OTHER COST COMPANIES	0	0	0	0	12,526,315	13,761,401	16,667,492

TABLE 4.16

TOTAL DIAL EQUIPMENT MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
NEW ENGLAND TEL.-MAINE	5,602,054	5,812,355	6,022,655	6,256,617	6,541,557	6,606,155	6,938,567
NEW ENGLAND TEL.-MA	46,405,881	48,063,099	49,583,614	50,989,867	55,073,542	57,137,378	58,271,096
NEW ENGLAND TEL.-NH	5,393,663	5,635,658	5,887,096	6,174,605	6,876,821	7,330,957	7,839,303
SOUTHERN NEW ENGLAND TEL.	25,379,820	25,703,469	26,211,128	26,910,604	28,211,905	29,964,623	32,459,507
NEW ENGLAND TEL.-VERMONT	2,647,117	2,821,690	2,996,263	3,160,652	3,263,475	3,308,053	3,416,831
CONTEL-NEW YORK	2,003,919	2,154,562	2,235,596	2,334,945	2,482,459	2,650,793	2,802,195
ROCHESTER	0	0	0	0	7,143,355	7,307,427	7,361,908
NEW YORK TELEPHONE	126,662,370	132,833,579	137,999,684	146,164,748	159,886,451	171,900,160	176,261,550
UNITED TEL.-NEW JERSEY	0	1,067,140	1,114,450	1,183,526	1,315,501	1,564,537	1,633,367
NEW JERSEY BELL	62,087,124	64,346,536	65,004,350	67,217,967	72,024,429	74,525,306	76,028,958
GTE NORTH-PA	255,917	282,108	313,734	343,729	6,744,279	7,277,562	7,641,817
UNITED TEL.-PA	2,859,429	2,990,245	3,023,391	3,113,383	3,435,650	3,540,957	3,675,114
BELL OF PENNSYLVANIA	76,774,957	79,402,887	81,997,451	82,936,147	86,167,555	86,508,003	88,259,225
C&P OF MARYLAND	40,639,618	42,563,472	44,792,777	46,297,324	46,999,074	46,886,050	49,098,457
CONTEL-VIRGINIA	0	2,982,418	3,172,157	3,312,534	3,896,870	4,432,556	4,775,290
CENTEL-VIRGINIA	2,408,310	2,527,131	2,702,609	2,797,207	2,803,359	3,025,717	3,099,727
GTE SOUTH-VIRGINIA	553,626	567,211	620,718	591,797	619,961	7,277,562	655,179
UNITED INTER-MOUNTAIN-VA	1,130,721	1,307,846	1,323,230	1,364,229	1,247,148	1,200,689	1,223,278
C&P OF VIRGINIA	34,002,021	34,472,714	35,657,022	37,493,125	39,569,587	41,656,360	43,390,944
GTE SOUTH-WEST VIRGINIA	996,685	1,008,636	1,136,924	1,125,047	1,192,805	1,360,744	1,266,742
C&P OF WEST VIRGINIA	11,656,872	11,894,722	11,840,569	11,918,434	12,264,053	12,607,544	12,599,487
GTE OF FLORIDA	14,214,813	14,955,299	17,016,876	18,069,081	19,887,223	22,117,486	24,030,031
CENTEL OF FLORIDA	2,022,540	2,080,175	2,198,264	2,441,920	2,664,926	2,793,057	3,262,482
UNITED TEL.-FLORIDA	0	6,986,523	7,637,994	8,031,670	8,747,173	9,758,746	10,644,535
SOUTHERN BELL-FLORIDA	50,738,187	52,656,039	55,535,673	59,126,857	63,349,884	66,921,086	70,126,344
GTE SOUTH-GEORGIA	2,573,421	2,849,036	2,941,597	3,076,818	3,173,336	3,757,258	3,666,438
SOUTHERN BELL-GEORGIA	41,392,893	42,461,234	42,829,973	45,230,212	49,180,769	51,905,200	53,417,526
CAROLINA TELEPHONE & TELEGRAPH	8,886,193	9,011,933	9,411,985	9,843,640	10,582,053	11,323,305	11,806,686
CENTEL-NORTH CAROLINA	2,257,683	2,347,344	2,434,766	2,555,518	2,834,234	2,833,118	2,953,197
GTE SOUTH-NORTH CAROLINA	1,665,988	1,840,628	1,979,844	2,129,975	2,457,256	2,657,905	2,543,006
SOUTHERN BELL-NORTH CAROLINA	22,263,400	22,617,501	23,014,580	23,727,526	26,210,920	28,083,634	29,819,114
GTE SOUTH-SOUTH CAROLINA	1,724,392	1,938,955	1,929,380	2,038,740	2,226,786	2,807,940	2,535,184
UNITED OF THE CAROLINAS	690,751	859,271	861,296	914,340	939,072	1,016,787	1,059,926
SOUTHERN BELL-SOUTH CAROLINA	16,697,517	16,776,162	17,179,732	17,658,893	19,109,036	20,264,935	21,379,571
GTE SOUTH-ALABAMA	1,529,773	1,768,416	1,900,150	1,933,773	2,085,359	2,439,207	2,213,733
SOUTH CENTRAL BELL-ALABAMA	24,698,295	25,448,228	26,026,123	27,126,143	28,219,763	29,644,815	30,863,506
GTE SOUTH-KENTUCKY	3,915,345	4,893,328	4,952,252	5,060,572	5,305,153	5,675,798	6,046,444
CINCINNATI BELL-KENTUCKY	2,320,088	2,347,873	2,412,437	2,461,696	2,496,899	2,646,881	2,637,534
SOUTH CENTRAL BELL-KENTUCKY	16,366,067	16,450,631	16,679,202	16,840,481	18,046,365	18,724,905	18,229,208
SOUTH CENTRAL BELL-LOUISIANA	32,921,360	35,071,256	36,828,370	37,571,772	38,582,880	39,220,271	38,352,352
SOUTH CENTRAL BELL-MISSISSIPPI	14,753,482	14,893,054	15,527,546	15,920,893	16,689,828	18,266,804	18,491,915
GTE SOUTH-TENNESSEE	710,139	721,696	788,721	790,063	832,415	1,044,891	948,224
UNITED INTER-MOUNTAIN-TN	2,276,145	2,667,515	2,655,025	2,697,284	2,736,070	2,902,342	3,061,105
SOUTH CENTRAL BELL-TENNESSEE	33,089,089	32,788,376	33,836,086	34,392,769	36,677,104	39,037,880	40,871,854
GTE NORTH-OHIO	8,332,409	9,500,175	9,701,349	9,815,824	10,440,949	13,509,680	11,450,889
CENTEL-OHIO	0	860,987	830,929	839,489	893,720	943,883	970,737
UNITED TEL.-OHIO	5,091,675	5,265,155	5,379,464	5,375,636	5,647,602	5,961,734	6,250,411
CINCINNATI BELL-OHIO	12,302,298	12,015,727	12,425,179	12,671,435	13,453,056	13,929,202	13,932,246
OHIO BELL	56,686,166	56,101,566	56,919,895	59,010,370	63,167,501	63,365,604	62,144,854
GTE NORTH-MICHIGAN	6,725,714	7,399,124	7,426,024	7,473,213	9,802,646	10,336,002	8,485,703
MICHIGAN BELL	65,462,753	65,629,964	65,638,932	67,224,660	70,897,934	73,400,972	75,230,413
GTE NORTH-INDIANA	7,418,497	8,100,540	8,275,236	8,564,933	9,417,207	11,872,791	10,116,954
UNITED TEL.-INDIANA	1,659,813	1,753,809	1,842,890	1,838,917	1,972,317	1,991,744	2,077,904

TABLE 4.16

TOTAL DIAL EQUIPMENT MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
INDIANA BELL	25,941,115	25,886,856	26,827,083	26,948,928	28,041,841	28,828,441	28,850,161
GTE NORTH-WISCONSIN	3,981,255	4,445,556	4,565,220	4,625,016	4,776,191	6,222,130	5,111,061
WISCONSIN BELL	24,561,755	23,901,030	24,586,876	24,536,227	25,288,833	26,484,349	27,040,793
CENTEL-ILLINOIS	0	2,450,733	2,503,812	2,562,545	2,666,992	2,594,728	2,660,126
GTE NORTH-ILLINOIS	7,074,171	8,706,971	9,013,584	9,181,193	9,624,444	11,075,836	9,601,168
ILLINOIS BELL	79,465,593	80,048,547	82,111,400	83,879,196	91,005,837	94,439,712	94,322,987
GTE NORTH-IOWA	1,278,016	1,422,348	1,512,565	1,570,383	1,644,889	5,701,483	1,628,856
UNITED TEL.-IOWA	0	633,550	666,188	677,361	682,866	728,398	727,371
US WEST-IOWA	13,126,698	12,962,466	12,312,014	13,543,813	14,391,396	14,898,496	15,263,594
GTE NORTH-MN	42,512	47,727	50,942	53,088	51,697	345,045	49,764
CENTEL-MN	721,719	778,629	814,528	878,800	900,001	961,642	1,000,451
UNITED TEL.-MINNESOTA	0	946,870	934,848	1,050,679	1,078,447	1,207,189	1,255,432
US WEST-MINNESOTA	24,335,590	24,404,182	25,624,339	27,088,848	28,531,761	29,793,723	30,625,144
GTE NORTH-NEBRASKA	524,587	543,138	622,448	654,533	676,823	688,732	700,640
LINCOLN TEL. & TEL.	2,417,825	2,476,645	2,599,890	2,721,826	2,902,551	2,953,445	2,988,400
UNITED TEL.-NEBRASKA	0	279,543	280,582	290,166	270,009	305,227	297,371
US WEST-NEBRASKA	6,615,745	6,789,329	7,097,051	7,370,650	8,289,219	8,014,882	8,085,860
US WEST-NORTH DAKOTA	3,293,699	3,409,209	3,556,847	3,602,495	3,784,192	3,892,612	3,805,296
US WEST-SOUTH DAKOTA	2,975,073	2,994,826	3,114,639	3,169,482	3,375,367	3,532,820	3,681,019
UNITED TEL.-ARKANSAS	170,922	127,513	176,231	174,455	180,381	191,729	187,651
GTE SOUTHWEST-ARKANSAS	949,165	1,089,187	1,089,042	1,013,831	2,360,311	1,554,318	1,255,350
SWB-ARKANSAS	10,218,500	10,233,264	10,563,605	11,048,836	11,913,975	12,418,339	12,664,547
UNITED TEL.-KANSAS	705,098	471,503	725,233	749,130	742,368	754,462	727,405
SWB-KANSAS	14,397,801	14,300,042	14,563,121	15,081,953	15,732,066	16,776,265	16,929,494
GTE NORTH-MISSOURI	1,181,330	1,324,995	1,372,555	1,426,338	1,482,781	1,605,564	1,657,195
UNITED TEL.-MO	1,660,173	1,726,449	1,834,321	1,874,807	1,881,654	2,010,042	2,007,394
SWB-MISSOURI	33,135,821	33,211,093	34,574,762	34,381,573	36,366,829	38,746,762	39,596,436
GTE SOUTHWEST-OKLAHOMA	1,307,724	1,556,951	1,657,063	1,548,109	3,579,623	2,386,379	1,892,780
SWB-OKLAHOMA	19,263,371	19,830,069	21,196,126	21,846,596	22,160,000	22,411,418	21,972,517
GTE SOUTHWEST-TEXAS	12,573,074	14,892,588	15,369,376	14,602,165	34,147,446	22,800,653	18,902,163
UNITED TEL.-TEXAS	0	0	1,371,155	1,386,612	1,497,206	1,155,710	1,219,400
CENTEL-TEXAS	1,201,858	1,268,625	1,472,694	1,614,369	1,698,435	1,809,508	1,906,143
CONTEL-TEXAS	1,224,092	1,322,039	1,455,984	1,511,213	1,684,980	1,825,559	1,892,377
SWB-TEXAS	93,167,801	99,263,130	108,139,685	111,699,388	120,122,007	129,536,010	130,967,778
US WEST-ARIZONA	18,476,691	19,683,741	19,992,054	21,363,102	23,721,141	26,171,199	28,453,498
US WEST-COLORADO	23,313,034	24,962,128	26,988,686	27,031,849	28,305,725	29,728,516	30,481,393
GTE NORTHWEST-IDAHO	877,483	960,138	956,155	1,000,769	1,095,467	1,190,165	1,197,308
US WEST-IDAHO	4,173,776	4,319,694	4,424,569	4,439,940	4,640,465	4,880,895	4,857,128
US WEST-IDAHO-PNB	352,344	349,558	347,311	366,042	378,864	386,333	378,763
GTE NORTHWEST-MONTANA	77,216	89,545	86,978	98,721	104,530	110,339	109,875
US WEST-MONTANA	3,662,304	3,699,558	3,816,699	3,856,272	4,081,593	4,243,024	4,358,462
GTE SOUTHWEST-NEW MEXICO	560,089	686,818	731,324	820,861	1,367,555	826,655	638,796
US WEST-NEW MEXICO	7,468,952	7,501,138	7,680,608	7,965,689	8,493,077	9,023,529	9,579,720
US WEST-UTAH	10,193,431	10,413,210	10,863,878	11,515,498	12,171,946	12,736,419	12,969,827
UNITED TEL.-WYOMING	0	61,285	59,975	61,366	63,131	66,213	65,773
US WEST-WYOMING	3,382,789	2,905,942	3,052,870	2,932,787	3,000,467	3,162,527	3,093,442
UNITED TEL.-NW-WA	473,345	483,499	503,556	520,681	518,604	556,965	549,870
GTE NORTHWEST-WASHINGTON	5,090,222	5,469,827	5,654,558	5,947,310	6,413,200	6,879,090	7,459,435
US WEST-WASHINGTON	22,479,468	23,192,127	23,409,175	24,691,194	25,580,909	26,841,800	27,680,286
UNITED TEL.-NW-OR	408,389	417,149	407,651	425,196	443,532	549,911	499,367
GTE NORTHWEST-OREGON	2,715,733	3,428,237	3,443,267	3,587,201	3,780,852	3,973,703	4,154,338
US WEST-OREGON	13,861,989	13,806,971	13,538,453	14,023,029	13,394,406	15,036,647	14,872,207
CONTEL-CALIFORNIA	2,082,816	2,191,111	2,313,667	2,391,794	2,519,904	2,754,183	2,922,611

TABLE 4.16

TOTAL DIAL EQUIPMENT MINUTES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
GTE OF CALIFORNIA	38,319,296	42,591,106	44,206,026	46,175,858	43,386,542	48,150,571	50,959,231
GTE NORTHWEST-CALIFORNIA	96,213	114,061	113,015	117,603	122,724	122,768	123,684
PACIFIC BELL	165,141,048	170,725,498	176,426,723	183,408,355	192,144,937	200,887,415	205,153,893
CENDEL-NV	3,933,518	4,170,143	4,187,768	4,304,357	4,565,095	4,937,132	5,629,200
NEVADA BELL	2,058,678	2,171,311	2,280,437	2,410,124	2,587,761	2,681,082	2,780,882
DIAMOND STATE TELEPHONE	4,911,713	4,993,037	5,001,202	5,215,527	5,647,490	5,860,636	6,088,690
C&P OF WASHINGTON D.C.	13,369,562	13,671,588	13,938,720	14,439,961	15,609,418	15,952,483	16,298,176
NEW ENGLAND TEL.-RHODE ISLAND	7,321,628	7,495,670	7,669,712	7,868,792	8,216,451	8,422,561	8,513,880
GTE HAWAIIAN TELCO	0	0	7,928,012	7,879,650	8,320,796	9,554,546	9,726,054
PUERTO RICO TELEPHONE CO.	0	0	0	0	7,805,207	7,987,032	8,935,527
ALL OTHER COST COMPANIES	0	0	0	0	89,787,013	98,786,259	11,250,335



TABLE 4.17  
STATE MESSAGES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
NEW ENGLAND TEL.-MAINE	67,748	69,758	75,426	80,806	84,762	94,855	104,858
NEW ENGLAND TEL.-MA	432,947	477,280	518,493	532,446	575,371	682,901	761,834
NEW ENGLAND TEL.-NH	59,304	60,118	65,734	71,612	76,421	92,446	106,295
SOUTHERN NEW ENGLAND TEL.	262,309	279,410	300,034	323,208	357,784	388,524	425,499
NEW ENGLAND TEL.-VERMONT	28,084	30,570	32,793	36,669	38,344	39,234	42,715
CONTEL-NEW YORK	33,641	0	38,290	40,947	44,799	48,851	55,842
ROCHESTER	0	0	0	0	32,371	32,684	30,608
NEW YORK TELEPHONE	450,729	484,264	517,200	562,799	553,193	537,035	603,610
UNITED TEL.-NEW JERSEY	0	35,279	37,902	41,415	50,000	56,315	64,204
NEW JERSEY BELL	1,035,320	1,104,672	1,192,899	1,313,819	1,456,241	1,575,418	1,761,152
GTE NORTH-PA	2,567	2,792	3,297	3,664	93,889	119,586	123,080
UNITED TEL.-PA	0	41,039	42,972	46,050	55,070	59,196	66,590
BELL OF PENNSYLVANIA	456,028	488,850	519,156	555,899	621,928	665,121	729,352
C&P OF MARYLAND	109,733	118,060	123,822	130,494	139,133	155,583	163,915
CONTEL-VIRGINIA	0	36,438	36,854	41,162	45,128	52,687	57,478
CENTEL-VIRGINIA	20,905	23,229	24,978	26,235	27,285	28,304	28,891
GTE SOUTH-VIRGINIA	3,146	3,493	3,930	3,767	4,035	7,490	9,414
UNITED INTER-MOUNTAIN-VA	6,607	7,166	7,467	7,625	8,092	8,821	9,461
C&P OF VIRGINIA	148,976	159,475	168,774	177,761	188,991	214,296	220,832
GTE SOUTH-WEST VIRGINIA	14,575	15,350	17,423	17,545	5,967	11,489	16,008
C&P OF WEST VIRGINIA	71,102	73,072	76,351	78,175	82,111	90,181	89,335
GTE OF FLORIDA	172,328	195,151	250,094	278,007	314,763	368,087	418,635
CENTEL OF FLORIDA	12,916	14,613	16,379	17,777	18,915	21,481	28,285
UNITED TEL.-FLORIDA	60,081	67,986	77,224	90,133	95,303	106,262	119,650
SOUTHERN BELL-FLORIDA	300,709	337,594	372,629	411,034	466,770	519,937	565,898
GTE SOUTH-GEORGIA	33,592	39,557	41,993	45,986	30,924	49,585	55,093
SOUTHERN BELL-GEORGIA	163,344	177,461	192,781	208,652	238,922	261,524	278,211
CAROLINA TELEPHONE & TELEGRAPH	83,257	88,223	92,368	102,056	113,363	128,763	144,501
CENTEL-NORTH CAROLINA	20,365	22,016	23,490	25,500	30,126	29,857	40,308
GTE SOUTH-NORTH CAROLINA	22,635	26,170	29,929	34,614	29,640	43,441	50,008
SOUTHERN BELL-NORTH CAROLINA	154,527	168,499	184,348	201,302	222,376	240,110	265,257
GTE SOUTH-SOUTH CAROLINA	18,610	21,551	23,772	26,858	17,627	27,228	36,114
UNITED OF THE CAROLINAS	5,929	6,372	6,714	7,268	8,074	8,725	9,526
SOUTHERN BELL-SOUTH CAROLINA	79,287	86,116	90,064	94,437	103,413	106,321	109,817
GTE SOUTH-ALABAMA	21,023	24,360	26,553	29,129	21,563	27,789	32,870
SOUTH CENTRAL BELL-ALABAMA	110,801	118,190	125,545	133,237	144,664	152,769	159,520
GTE SOUTH-KENTUCKY	41,390	53,410	60,947	70,489	42,444	79,488	85,886
CINCINNATI BELL-KENTUCKY	3,934	4,017	4,154	4,274	4,565	5,005	5,321
SOUTH CENTRAL BELL-KENTUCKY	78,058	81,081	84,142	88,712	93,901	95,318	97,629
SOUTH CENTRAL BELL-LOUISIANA	190,320	215,891	234,777	240,749	255,502	258,979	255,431
SOUTH CENTRAL BELL-MISSISSIPPI	104,000	108,876	114,831	119,592	124,561	131,151	136,405
GTE SOUTH-TENNESSEE	10,426	11,248	132,967	14,489	11,272	18,956	17,402
UNITED INTER-MOUNTAIN-TN	12,245	13,644	14,520	15,647	16,724	18,530	22,084
SOUTH CENTRAL BELL-TENNESSEE	141,499	150,893	161,604	169,690	184,346	193,423	209,331
GTE NORTH-OHIO	162,323	188,831	196,898	198,584	179,078	275,901	239,329
CENTEL-OHIO	0	8,098	8,528	8,214	8,447	9,478	10,611
UNITED TEL.-OHIO	65,411	69,998	72,551	75,896	82,039	89,415	93,861
CINCINNATI BELL-OHIO	28,205	29,501	30,586	31,690	34,234	37,162	39,717
OHIO BELL	282,439	304,738	316,895	314,373	339,031	360,997	354,891
GTE NORTH-MICHIGAN	158,933	180,846	182,298	186,417	171,268	197,463	224,725
MICHIGAN BELL	518,089	544,017	551,978	581,784	684,963	752,645	752,645
GTE NORTH-INDIANA	103,621	119,826	124,454	129,820	138,990	185,960	156,363
UNITED TEL.-INDIANA	23,872	26,585	28,141	29,990	32,900	35,848	38,153

TABLE 4.17  
STATE MESSAGES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
INDIANA BELL	123,854	130,536	138,296	147,354	159,057	164,239	164,239
GTE NORTH-WISCONSIN	70,420	80,352	83,749	88,177	102,476	107,904	95,671
WISCONSIN BELL	147,553	154,678	164,387	173,389	179,616	194,759	190,694
CENTEL-ILLINOIS	0	18,344	19,089	18,769	19,721	21,569	22,659
GTE NORTH-ILLINOIS	151,722	190,793	203,266	204,222	145,896	200,390	210,900
ILLINOIS BELL	265,250	282,311	291,290	302,199	340,501	349,013	358,861
GTE NORTH-IOWA	27,936	31,676	33,851	36,184	9,798	11,278	9,330
UNITED TEL.-IOWA	0	11,825	12,692	12,782	13,434	14,347	14,570
US WEST-IOWA	117,369	123,120	128,463	132,486	132,572	133,276	148,487
GTE NORTH-MN	688	808	874	956	0	0	0
CENTEL-MN	7,691	8,258	8,900	9,713	9,716	10,403	10,820
UNITED TEL.-MINNESOTA	0	10,899	11,917	12,773	13,136	15,124	15,648
US WEST-MINNESOTA	109,224	116,506	123,691	130,919	139,689	149,536	228,090
GTE NORTH-NEBRASKA	10,824	11,505	13,562	14,572	6,019	6,768	4,374
LINCOLN TEL. & TEL.	26,433	27,928	30,737	32,835	34,623	35,679	36,857
UNITED TEL.-NEBRASKA	0	1,853	1,973	2,072	2,098	2,280	2,326
US WEST-NEBRASKA	38,681	41,019	43,547	46,044	54,672	47,089	78,327
US WEST-NORTH DAKOTA	28,085	30,500	32,091	33,316	35,313	37,329	38,307
US WEST-SOUTH DAKOTA	27,681	29,192	30,951	32,458	34,160	36,778	42,028
UNITED TEL.-ARKANSAS	3,105	0	3,157	3,241	3,265	3,592	3,724
GTE SOUTHWEST-ARKANSAS	11,830	13,437	13,701	13,574	30,446	22,228	18,399
SWB-ARKANSAS	89,544	94,913	98,845	103,809	107,942	108,505	114,383
UNITED TEL.-KANSAS	13,237	13,561	13,952	15,710	14,776	16,054	15,813
SWB-KANSAS	109,304	121,610	125,049	131,358	128,806	129,671	128,483
GTE NORTH-MISSOURI	20,038	23,239	23,647	25,077	9,949	13,650	12,505
UNITED TEL.-MO	27,962	29,559	30,620	31,284	33,192	36,322	37,883
SWB-MISSOURI	154,438	158,667	148,174	161,127	173,232	174,166	184,054
GTE SOUTHWEST-OKLAHOMA	18,981	23,360	24,575	24,355	51,900	35,407	30,688
SWB-OKLAHOMA	165,212	173,356	207,881	212,444	208,572	210,380	204,893
GTE SOUTHWEST-TEXAS	207,490	261,062	275,234	266,557	608,943	334,290	371,536
UNITED TEL.-TEXAS	0	0	22,833	25,465	28,751	30,972	33,775
CENTEL-TEXAS	13,109	15,235	18,847	19,425	20,016	21,879	22,302
CONTEL-TEXAS	0	32,268	36,256	39,486	42,908	47,379	51,221
SWB-TEXAS	636,804	719,876	796,879	804,606	827,782	887,735	870,312
US WEST-ARIZONA	70,433	79,154	85,909	89,045	97,134	101,981	218,279
US WEST-COLORADO	120,443	135,050	147,152	155,393	162,581	165,183	253,742
GTE NORTHWEST-IDAHO	16,966	19,233	19,875	19,212	10,542	11,344	11,575
US WEST-IDAHO	38,549	40,403	41,470	44,016	47,134	49,352	53,222
US WEST-IDAHO-PNB	2,751	2,777	2,834	3,016	3,116	3,140	4,261
GTE NORTHWEST-MONTANA	638	726	720	765	0	0	0
US WEST-MONTANA	40,781	43,594	45,438	48,753	51,609	51,390	44,936
GTE SOUTHWEST-NEW MEXICO	6,111	8,061	8,701	7,959	19,031	12,440	8,924
US WEST-NEW MEXICO	39,205	42,621	46,447	48,170	51,452	55,279	83,968
US WEST-UTAH	60,302	66,749	66,521	67,319	68,149	71,762	89,083
UNITED TEL.-WYOMING	0	545	566	607	649	691	709
US WEST-WYOMING	25,185	27,669	28,230	27,333	28,534	29,167	43,126
UNITED TEL.-NW-WA	11,484	11,962	12,551	13,279	13,301	14,497	14,704
GTE NORTHWEST-WASHINGTON	88,521	102,745	115,580	130,205	65,869	71,753	78,862
US WEST-WASHINGTON	174,628	189,567	201,137	217,756	230,476	238,752	138,651
UNITED TEL.-NW-OR	10,424	10,778	10,690	11,155	11,357	13,101	12,343
GTE NORTHWEST-OREGON	55,008	70,440	72,567	75,827	35,700	37,012	39,478
US WEST-OREGON	121,724	128,874	139,911	141,760	146,615	144,831	204,083
CONTEL-CALIFORNIA	42,644	47,061	49,537	52,988	57,791	63,236	69,499

TABLE 4.17  
STATE MESSAGES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
GTE OF CALIFORNIA	1,149,540	1,361,762	0	0	0	0	0
GTE NORTHWEST-CALIFORNIA	2,639	2,785	2,718	2,668	1,127	1,188	1,425
PACIFIC BELL	2,242,132	2,438,270	2,576,616	2,868,243	3,282,288	3,559,774	3,885,138
CENTEL-NV	2,962	3,264	3,517	4,320	4,421	4,982	5,818
NEVADA BELL	7,550	8,647	9,010	9,828	11,960	12,726	12,716
DIAMOND STATE TELEPHONE	10,459	11,160	12,217	14,207	15,147	16,850	19,305
C&P OF WASHINGTON D.C.	0	0	0	0	0	0	0
NEW ENGLAND TEL.-RHODE ISLAND	29,116	33,566	38,015	39,464	41,522	48,099	50,647
GTE HAWAIIAN TELCO	28,630	0	28,630	34,222	42,907	47,854	40,084
PUERTO RICO TELEPHONE CO.	0	0	0	0	70,344	86,851	104,093
ALL OTHER COST COMPANIES	0	0	0	0	1,212,855	1,291,543	1,559,617

TABLE 4.18

INTERSTATE MESSAGES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
NEW ENGLAND TEL.-MAINE	33,969	36,757	40,372	45,786	50,195	57,642	65,049
NEW ENGLAND TEL.-MA	303,462	332,719	361,550	432,931	462,028	518,522	554,263
NEW ENGLAND TEL.-NH	68,352	73,456	80,515	88,559	93,338	113,672	126,905
SOUTHERN NEW ENGLAND TEL.	214,561	230,545	243,288	259,889	285,665	318,057	347,037
NEW ENGLAND TEL.-VERMONT	28,611	29,811	31,238	33,236	34,406	46,052	50,142
CONTEL-NEW YORK	6,558	0	7,626	8,173	8,996	9,936	11,316
ROCHESTER	0	0	0	0	34,398	42,026	41,005
NEW YORK TELEPHONE	913,627	982,866	1,061,731	1,134,991	1,251,746	1,313,004	1,409,296
UNITED TEL.-NEW JERSEY	0	10,435	11,429	12,982	16,951	19,277	22,815
NEW JERSEY BELL	589,868	636,155	674,941	734,455	787,480	915,219	1,067,097
GTE NORTH-PA	741	839	1,008	1,222	57,626	66,839	73,729
UNITED TEL.-PA	0	14,411	15,173	16,377	23,346	26,547	29,088
BELL OF PENNSYLVANIA	420,181	452,959	473,250	502,219	542,250	578,267	601,774
C&P OF MARYLAND	194,913	211,459	217,968	232,483	253,800	271,573	294,424
CONTEL-VIRGINIA	0	14,505	14,610	16,091	17,445	20,131	22,057
CENTEL-VIRGINIA	10,586	11,741	12,657	14,178	15,459	18,701	19,526
GTE SOUTH-VIRGINIA	2,427	2,707	3,022	2,960	3,438	6,337	8,199
UNITED INTER-MOUNTAIN-VA	5,858	6,561	6,815	7,235	7,567	8,144	9,273
C&P OF VIRGINIA	188,398	206,622	219,890	242,526	273,575	305,351	305,936
GTE SOUTH-WEST VIRGINIA	11,595	12,530	14,270	14,879	4,426	9,765	15,873
C&P OF WEST VIRGINIA	56,568	60,425	62,405	66,816	71,689	77,484	80,728
GTE OF FLORIDA	137,204	150,900	196,547	221,272	252,663	269,478	316,939
CENTEL OF FLORIDA	10,914	12,521	13,856	15,366	16,743	19,278	25,614
UNITED TEL.-FLORIDA	37,043	41,494	47,015	50,172	54,317	68,846	81,783
SOUTHERN BELL-FLORIDA	327,218	356,963	392,620	425,789	455,866	495,063	550,135
GTE SOUTH-GEORGIA	13,719	16,279	17,647	20,504	14,854	61,026	31,204
SOUTHERN BELL-GEORGIA	243,770	271,139	296,733	328,186	363,160	401,170	427,938
CAROLINA TELEPHONE & TELEGRAPH	38,463	41,860	45,165	51,300	58,354	67,964	80,717
CENTEL-NORTH CAROLINA	7,122	7,874	8,475	9,471	11,710	11,894	17,443
GTE SOUTH-NORTH CAROLINA	12,534	14,935	19,294	24,135	20,967	32,208	37,078
SOUTHERN BELL-NORTH CAROLINA	112,767	127,283	140,311	158,110	175,436	198,598	214,722
GTE SOUTH-SOUTH CAROLINA	13,736	17,744	20,419	24,223	18,060	27,143	37,488
UNITED OF THE CAROLINAS	3,917	4,429	4,846	5,312	5,937	6,560	7,140
SOUTHERN BELL-SOUTH CAROLINA	80,820	91,237	99,179	110,583	120,951	128,077	135,005
GTE SOUTH-ALABAMA	13,133	15,805	17,274	19,755	15,324	20,824	26,533
SOUTH CENTRAL BELL-ALABAMA	106,673	118,519	126,529	139,216	153,759	169,443	179,861
GTE SOUTH-KENTUCKY	29,180	37,971	44,870	57,144	35,279	82,413	74,718
CINCINNATI BELL-KENTUCKY	7,770	8,309	8,672	9,194	10,704	12,354	13,600
SOUTH CENTRAL BELL-KENTUCKY	75,355	80,638	84,472	90,054	96,547	102,464	108,867
SOUTH CENTRAL BELL-LOUISIANA	132,782	151,059	163,074	174,526	192,582	205,531	209,334
SOUTH CENTRAL BELL-MISSISSIPPI	78,703	87,319	93,476	101,502	109,750	124,079	134,507
GTE SOUTH-TENNESSEE	4,735	5,280	6,378	7,336	5,700	9,768	10,329
UNITED INTER-MOUNTAIN-TN	10,496	11,704	12,217	12,925	13,864	15,301	17,913
SOUTH CENTRAL BELL-TENNESSEE	161,241	171,319	186,338	202,373	229,273	238,908	253,490
GTE NORTH-OHIO	46,251	55,630	58,010	61,005	55,728	88,168	81,437
CENTEL-OHIO	0	2,501	2,605	2,836	2,968	3,480	3,894
UNITED TEL.-OHIO	21,499	23,006	25,099	27,058	30,499	34,502	38,062
CINCINNATI BELL-OHIO	52,190	56,209	60,408	65,189	71,704	76,089	83,192
OHIO BELL	231,500	250,599	265,174	270,546	298,689	314,472	328,420
GTE NORTH-MICHIGAN	32,416	38,380	40,065	42,488	49,631	48,650	56,517
MICHIGAN BELL	231,259	250,504	259,752	278,799	300,091	335,444	335,444
GTE NORTH-INDIANA	70,248	82,345	83,491	88,303	96,171	130,898	102,775
UNITED TEL.-INDIANA	9,261	11,893	12,485	13,608	15,167	16,462	18,135

TABLE 4.18

INTERSTATE MESSAGES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
INDIANA BELL	131,571	139,831	144,787	157,364	170,807	181,708	181,708
GTE NORTH-WISCONSIN	20,474	24,229	25,406	27,820	45,034	36,262	25,175
WISCONSIN BELL	119,207	126,919	133,549	145,180	156,374	165,998	169,525
CENTEL-ILLINOIS	0	20,760	20,233	19,638	20,513	23,387	25,773
GTE NORTH-ILLINOIS	41,367	54,153	58,239	60,382	45,561	66,612	69,639
ILLINOIS BELL	480,047	515,345	530,757	565,218	611,668	657,197	688,646
GTE NORTH-IOWA	7,093	8,675	9,385	10,076	3,077	3,540	3,271
UNITED TEL.-IOWA	0	3,539	3,785	3,972	4,253	5,143	5,466
US WEST-IOWA	87,139	95,558	101,513	116,197	133,242	156,048	132,318
GTE NORTH-MN	228	267	281	315	0	0	0
CENTEL-MN	3,232	3,675	3,860	4,249	4,650	4,990	5,736
UNITED TEL.-MINNESOTA	0	3,158	3,354	3,690	3,616	4,732	5,437
US WEST-MINNESOTA	145,754	157,715	165,751	180,257	193,129	211,927	154,159
GTE NORTH-NEBRASKA	3,417	3,746	4,337	4,772	2,155	2,844	2,049
LINCOLN TEL. & TEL.	13,285	14,496	15,900	17,441	20,881	24,289	24,336
UNITED TEL.-NEBRASKA	0	2,427	2,575	2,608	2,668	2,996	3,162
US WEST-NEBRASKA	50,069	54,697	58,495	62,723	74,164	74,645	46,365
US WEST-NORTH DAKOTA	23,278	26,603	28,277	30,817	33,327	38,255	36,492
US WEST-SOUTH DAKOTA	22,568	25,328	27,734	31,403	34,942	39,488	35,904
UNITED TEL.-ARKANSAS	1,340	0	1,456	1,490	1,531	1,697	1,879
GTE SOUTHWEST-ARKANSAS	4,404	5,241	5,472	5,417	12,287	9,906	8,818
SWB-ARKANSAS	64,049	73,270	80,261	91,182	98,810	109,354	117,328
UNITED TEL.-KANSAS	4,974	5,112	5,205	5,997	5,912	6,661	6,930
SWB-KANSAS	94,060	101,798	103,531	118,806	125,117	134,438	141,285
GTE NORTH-MISSOURI	7,687	9,043	9,457	10,650	4,761	6,455	6,476
UNITED TEL.-MO	9,303	9,899	10,696	11,565	11,288	15,290	16,600
SWB-MISSOURI	196,786	205,715	215,476	223,231	237,649	249,774	260,665
GTE SOUTHWEST-OKLAHOMA	8,315	10,685	11,132	11,208	24,042	17,500	18,653
SWB-OKLAHOMA	115,979	132,045	145,462	146,728	146,966	151,267	154,654
GTE SOUTHWEST-TEXAS	64,515	82,923	88,250	87,898	211,037	132,224	148,276
UNITED TEL.-TEXAS	0	0	2,608	2,873	3,447	4,037	4,320
CENTEL-TEXAS	5,960	6,854	7,356	8,018	9,046	10,242	11,172
CONTEL-TEXAS	0	3,726	4,219	4,571	4,773	5,354	5,945
SWB-TEXAS	398,531	455,024	521,212	549,271	569,265	619,266	625,844
US WEST-ARIZONA	137,252	148,604	152,586	170,805	188,583	205,800	108,919
US WEST-COLORADO	161,947	186,340	202,325	220,589	234,728	247,311	168,147
GTE NORTHWEST-IDAHO	19,035	22,525	22,308	24,834	13,221	14,837	15,717
US WEST-IDAHO	32,723	35,790	37,674	42,004	44,257	49,451	48,400
US WEST-IDAHO-PNB	3,026	3,215	3,303	3,655	3,953	4,132	3,176
GTE NORTHWEST-MONTANA	513	618	618	682	0	0	0
US WEST-MONTANA	27,090	31,460	33,954	37,100	40,185	42,266	52,887
GTE SOUTHWEST-NEW MEXICO	8,169	10,938	11,600	10,682	23,896	15,971	11,421
US WEST-NEW MEXICO	49,501	54,681	58,771	63,577	70,393	76,836	58,427
US WEST-UTAH	55,143	63,524	69,945	77,108	76,335	80,037	75,254
UNITED TEL.-WYOMING	0	791	812	827	936	1,070	1,116
US WEST-WYOMING	32,873	37,684	39,058	38,880	39,893	42,721	28,163
UNITED TEL.-NW-WA	2,931	3,192	3,319	3,621	4,214	4,898	4,921
GTE NORTHWEST-WASHINGTON	35,223	43,817	51,488	60,530	30,195	34,670	39,570
US WEST-WASHINGTON	133,689	150,007	162,676	177,512	187,861	202,896	253,875
UNITED TEL.-NW-OR	2,492	2,672	2,706	2,927	3,445	4,415	4,644
GTE NORTHWEST-OREGON	28,931	40,987	44,493	47,763	23,035	25,629	28,720
US WEST-OREGON	95,688	104,564	107,835	117,529	124,058	133,780	151,754
CONTEL-CALIFORNIA	5,398	6,020	6,389	6,946	7,437	8,166	9,391

TABLE 4.18

INTERSTATE MESSAGES,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
GTE OF CALIFORNIA	206,213	241,401	0	0	0	0	0
GTE NORTHWEST-CALIFORNIA	1,286	1,456	1,418	1,557	699	719	854
PACIFIC BELL	624,464	686,438	731,737	815,696	871,526	973,620	1,067,457
CENTEL-NV	44,956	48,509	50,535	56,371	61,271	66,400	84,667
NEVADA BELL	27,179	30,258	30,107	34,432	40,612	38,461	30,617
DIAMOND STATE TELEPHONE	47,377	49,811	53,309	57,364	61,290	71,878	80,962
C&P OF WASHINGTON D.C.	119,771	119,819	116,986	121,031	130,311	132,736	122,613
NEW ENGLAND TEL.-RHODE ISLAND	59,198	64,537	69,834	72,036	79,955	92,405	98,300
GTE HAWAIIAN TELCO	41,646	0	41,646	45,934	47,145	61,025	48,216
PUERTO RICO TELEPHONE CO.	0	0	0	0	22,200	26,522	33,152
ALL OTHER COST COMPANIES	0	0	0	0	380,021	423,002	505,946

TABLE 4.19  
NUMBER OF LOOPS,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
NEW ENGLAND TEL.-MAINE	380	392	400	415	431	465	487
NEW ENGLAND TEL.-MA	2,736	2,813	2,871	2,945	3,046	3,154	3,260
NEW ENGLAND TEL.-NH	376	393	410	434	463	487	511
SOUTHERN NEW ENGLAND TEL.	1,437	1,514	1,531	1,566	1,613	1,875	1,891
NEW ENGLAND TEL.-VERMONT	179	187	195	205	216	225	231
CONTEL-NEW YORK	145	0	164	166	173	186	192
ROCHESTER	0	0	0	0	409,017	409	412
NEW YORK TELEPHONE	7,946	8,077	8,101	8,210	8,475	8,712	8,865
UNITED TEL.-NEW JERSEY	0	0	0	0	100	109	118
NEW JERSEY BELL	3,572	3,675	3,771	3,896	4,101	4,230	4,250
GTE NORTH-PA	16	0	17	0	346	379	391
UNITED TEL.-PA	0	0	0	0	239	248	255
BELL OF PENNSYLVANIA	4,292	4,369	4,423	4,461	4,382	4,552	4,603
CBP OF MARYLAND	2,012	2,072	2,118	2,205	2,270	2,344	2,408
CONTEL-VIRGINIA	0	204	217	226	240	254	264
CENTEL-VIRGINIA	137	145	154	162	165	0	0
GTE SOUTH-VIRGINIA	26	22	27	27	27	29	29
UNITED INTER-MOUNTAIN-VA	61	65	67	70	70	63	66
CBP OF VIRGINIA	1,739	1,800	1,848	1,955	2,029	2,115	2,192
GTE SOUTH-WEST VIRGINIA	54	60	56	56	58	60	61
CBP OF WEST VIRGINIA	560	571	578	592	608	618	628
GTE OF FLORIDA	1,050	1,119	1,177	1,257	1,341	1,421	1,528
CENTEL OF FLORIDA	120	128	135	149	163	171	203
UNITED TEL.-FLORIDA	0	526	570	623	670	726	788
SOUTHERN BELL-FLORIDA	2,830	2,979	3,080	3,219	3,365	3,539	3,671
GTE SOUTH-GEORGIA	144	152	154	159	167	176	187
SOUTHERN BELL-GEORGIA	1,850	1,911	1,955	2,040	2,151	2,258	2,298
CAROLINA TELEPHONE & TELEGRAPH	548	570	589	608	637	660	687
CENTEL-NORTH CAROLINA	143	149	152	155	162	0	0
GTE SOUTH-NORTH CAROLINA	98	103	106	111	122	129	133
SOUTHERN BELL-NORTH CAROLINA	1,166	1,199	1,227	1,266	1,310	1,363	1,396
GTE SOUTH-SOUTH CAROLINA	97	102	104	108	117	124	130
UNITED OF THE CAROLINAS	48	49	51	53	54	59	60
SOUTHERN BELL-SOUTH CAROLINA	789	808	818	841	873	902	920
GTE SOUTH-ALABAMA	88	98	95	96	103	108	114
SOUTH CENTRAL BELL-ALABAMA	1,145	1,176	1,197	1,219	1,249	1,266	1,270
GTE SOUTH-KENTUCKY	254	250	257	262	275	289	299
CINCINNATI BELL-KENTUCKY	114	115	116	117	119	122	124
SOUTH CENTRAL BELL-KENTUCKY	780	789	793	805	819	813	818
SOUTH CENTRAL BELL-LOUISIANA	1,547	1,609	1,647	1,687	1,733	1,735	1,673
SOUTH CENTRAL BELL-MISSISSIPPI	749	774	776	791	804	826	826
GTE SOUTH-TENNESSEE	40	41	42	43	45	47	47
UNITED INTER-MOUNTAIN-TN	121	126	130	136	136	148	151
SOUTH CENTRAL BELL-TENNESSEE	1,509	1,540	1,558	1,585	1,640	1,671	1,667
GTE NORTH-OHIO	511	533	543	551	559	576	606
CENTEL-OHIO	0	55	55	55	55	54	55
UNITED TEL.-OHIO	313	329	344	355	363	380	397
CINCINNATI BELL-OHIO	550	556	553	561	573	585	585
OHIO BELL	2,844	2,866	2,865	2,884	2,924	2,955	2,944
GTE NORTH-MICHIGAN	389	0	0	0	435	468	478
MICHIGAN BELL	3,491	3,500	3,501	3,586	3,732	3,818	3,820
GTE NORTH-INDIANA	473	491	509	526	544	576	584
UNITED TEL.-INDIANA	130	133	139	149	156	161	161

TABLE 4.19  
NUMBER OF LOOPS,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
INDIANA BELL	1,330	1,354	1,362	1,365	1,397	1,440	1,433
GTE NORTH-WISCONSIN	269	280	290	299	275	276	277
WISCONSIN BELL	1,436	1,525	1,445	1,446	1,484	1,517	1,517
CENDEL-ILLINOIS	0	137	153	156	158	156	153
GTE NORTH-ILLINOIS	513	533	540	0	544	521	521
ILLINOIS BELL	4,605	4,670	4,618	4,646	4,671	4,718	4,682
GTE NORTH-IOWA	97	101	103	105	105	107	104
UNITED TEL.-IOWA	55	55	56	58	61,581	63	60
US WEST-IOWA	856	859	864	874	878	854	847
GTE NORTH-MN	3	3	4	4	3	3	3
CENDEL-MN	54	57	59	60	61	63	64
UNITED TEL.-MINNESOTA	66	67	68	74	78	80	86
US WEST-MINNESOTA	1,457	1,491	1,497	1,545	1,583	1,595	1,610
GTE NORTH-NEBRASKA	39	41	42	43	44	44	43
LINCOLN TEL. & TEL.	196	200	201	204	206	209	208
UNITED TEL.-NEBRASKA	21	22	22	23	23	23	23
US WEST-NEBRASKA	393	403	406	418	428	422	419
US WEST-NORTH DAKOTA	220	229	231	238	243	241	241
US WEST-SOUTH DAKOTA	219	225	225	231	236	234	237
UNITED TEL.-ARKANSAS	14	14	14	14	14	15	15
GTE SOUTHWEST-ARKANSAS	51	52	53	55	56	58	59
SWB-ARKANSAS	575	584	588	601	610	635	661
UNITED TEL.-KANSAS	56	57	59	61	63	65	62
SWB-KANSAS	856	889	900	918	921	958	984
GTE NORTH-MISSOURI	83	85	86	87	92	96	96
UNITED TEL.-MO	122	128	137	138	149	153	158
SWB-MISSOURI	1,681	1,711	1,720	1,749	1,765	1,765	1,841
GTE SOUTHWEST-OKLAHOMA	75	79	85	90	94	98	96
SWB-OKLAHOMA	1,128	1,200	1,225	1,243	1,222	1,235	1,237
GTE SOUTHWEST-TEXAS	749	811	848	885	944	996	1,027
UNITED TEL.-TEXAS	73	74	80	82	88	91	94
CENDEL-TEXAS	69	82	83	91	99	105	112
CONTEL-TEXAS	0	101	113	118	129	142	150
SWB-TEXAS	4,867	5,233	5,591	5,710	5,825	6,108	6,231
US WEST-ARIZONA	1,158	1,232	1,269	1,304	1,360	1,470	1,531
US WEST-COLORADO	1,322	1,404	1,453	1,513	1,547	1,654	1,640
GTE NORTHWEST-IDAHO	43	61	564	62	63	66	64
US WEST-IDAHO	263	272	278	284	293	308	307
US WEST-IDAHO-PNB	20	20	20	21	22	21	21
GTE NORTHWEST-MONTANA	5	5	54	6	6	6	6
US WEST-MONTANA	266	271	277	286	287	297	287
GTE SOUTHWEST-NEW MEXICO	38	41	42	40	41	98	96
US WEST-NEW MEXICO	425	444	459	466	477	503	514
US WEST-UTAH	546	569	582	603	611	633	643
UNITED TEL.-WYOMING	5	5	5	5	5	6	5
US WEST-WYOMING	191	205	210	211	209	217	205
UNITED TEL.-NW-WA	36	36	37	38	40	42	44
GTE NORTHWEST-WASHINGTON	358	383	3,494	367	412	441	442
US WEST-WASHINGTON	1,451	1,490	1,503	1,536	1,606	1,581	1,637
UNITED TEL.-NW-OR	32	32	33	36	39	39	41
GTE NORTHWEST-OREGON	198	211	2,008	214	227	237	242
US WEST-OREGON	861	880	877	888	918	879	890
CONTEL-CALIFORNIA	173	183	191	199	213	223	243



TABLE 4.19  
NUMBER OF LOOPS,  
BY COMPANY (in 000's)

carrier	1980	1981	1982	1983	1984	1985	1986
GTE OF CALIFORNIA	2,487	2,559	2,588	2,677	2,807	2,859	2,987
GTE NORTHWEST-CALIFORNIA	8	8	80	8	8	8	9
PACIFIC BELL	9,843	10,207	10,363	10,858	10,771	11,472	11,587
CENTEL-NV	250	262	268	291	301	354	326
NEVADA BELL	142	152	157	166	165	172	180
DIAMOND STATE TELEPHONE	281	292	298	304	312	333	346
C&P OF WASHINGTON D.C.	691	711	721	768	779	780	768
NEW ENGLAND TEL.-RHODE ISLAND	425	433	441	455	467	466	482
GTE HAWAIIAN TELCO	457	0	457	472	489	498	525
PUERTO RICO TELEPHONE CO.	0	0	0	0	504	530	579
ALL OTHER COST COMPANIES	0	0	0	0	5,501	6,015	6,321

TABLE 4.20  
INTERSTATE SLU FACTORS,  
BY COMPANY

carrier	1980	1981	1982	1983	1984	1985	1986
NEW ENGLAND TEL.-MAINE	0.0859	0.0910	0.0958	0.1025	0.1111	0.1314	0.1270
NEW ENGLAND TEL.-MA	0.0844	0.0869	0.0891	0.0928	0.0984	0.1228	0.1248
NEW ENGLAND TEL.-NH	0.1496	0.1556	0.1612	0.1690	0.1744	0.2062	0.2061
SOUTHERN NEW ENGLAND TEL.	0.1040	0.1375	0.1395	0.1421	0.1502	0.1513	0.1515
NEW ENGLAND TEL.-VERMONT	0.1483	0.1491	0.1498	0.1553	0.1721	0.1871	0.1786
CONTEL-NEW YORK	0.0659	0.0681	0.0710	0.0744	0.0827	0.0958	0.1038
ROCHESTER	0.0000	0.0000	0.0000	0.0000	0.0721	0.0759	0.0856
NEW YORK TELEPHONE	0.0855	0.0871	0.0894	0.0895	0.1068	0.1167	0.1258
UNITED TEL.-NEW JERSEY	0.0000	0.1337	0.1373	0.1447	0.1472	0.1630	0.1700
NEW JERSEY BELL	0.1155	0.1173	0.1214	0.1260	0.1373	0.1605	0.1565
GTE NORTH-PA	0.0554	0.0549	0.0586	0.0574	0.0713	0.0702	0.0807
UNITED TEL.-PA	0.0673	0.0702	0.0707	0.0733	0.0860	0.0914	0.0909
BELL OF PENNSYLVANIA	0.0709	0.0725	0.0742	0.0786	0.0921	0.1108	0.1001
C&P OF MARYLAND	0.0688	0.0691	0.0672	0.0692	0.0776	0.0871	0.0981
CONTEL-VIRGINIA	0.0000	0.1018	0.1045	0.1080	0.1240	0.1363	0.1510
CENDEL-VIRGINIA	0.0890	0.0910	0.0904	0.0971	0.1063	0.1183	0.0963
GTE SOUTH-VIRGINIA	0.0733	0.0773	0.0761	0.0711	0.0828	0.0873	0.0862
UNITED INTER-MOUNTAIN-VA	0.0681	0.0722	0.0749	0.0756	0.0905	0.1027	0.1067
C&P OF VIRGINIA	0.0789	0.0820	0.0827	0.0862	0.0991	0.1082	0.1043
GTE SOUTH-WEST VIRGINIA	0.1037	0.1083	0.1039	0.1004	0.1152	0.1263	0.1604
C&P OF WEST VIRGINIA	0.0697	0.0725	0.0734	0.0757	0.0837	0.0908	0.0897
GTE OF FLORIDA	0.0944	0.1047	0.1074	0.1093	0.1175	0.1207	0.1223
CENDEL OF FLORIDA	0.0981	0.1041	0.1110	0.1144	0.1176	0.1338	0.1470
UNITED TEL.-FLORIDA	0.0000	0.1282	0.1316	0.1341	0.1275	0.1441	0.1446
SOUTHERN BELL-FLORIDA	0.0921	0.0962	0.0986	0.1007	0.1072	0.1162	0.1331
GTE SOUTH-GEORGIA	0.0642	0.0669	0.0689	0.0691	0.0821	0.0877	0.0775
SOUTHERN BELL-GEORGIA	0.0823	0.0869	0.0910	0.0887	0.0938	0.1025	0.1133
CAROLINA TELEPHONE & TELEGRAPH	0.0699	0.0725	0.0741	0.0800	0.0875	0.1014	0.1068
CENDEL-NORTH CAROLINA	0.0593	0.0630	0.0613	0.0660	0.0729	0.0787	0.0860
GTE SOUTH-NORTH CAROLINA	0.0786	0.0888	0.0830	0.0986	0.1040	0.1266	0.0988
SOUTHERN BELL-NORTH CAROLINA	0.0698	0.0770	0.0799	0.0846	0.0884	0.0949	0.1020
GTE SOUTH-SOUTH CAROLINA	0.1098	0.1133	0.1223	0.1343	0.1411	0.1317	0.1559
UNITED OF THE CAROLINAS	0.0821	0.0876	0.0941	0.0958	0.1110	0.1116	0.1096
SOUTHERN BELL-SOUTH CAROLINA	0.0639	0.0701	0.0724	0.0773	0.0849	0.8512	0.0990
GTE SOUTH-ALABAMA	0.0895	0.0976	0.0937	0.0989	0.1071	0.1090	0.1172
SOUTH CENTRAL BELL-ALABAMA	0.0612	0.0635	0.0643	0.0647	0.0705	0.0854	0.0919
GTE SOUTH-KENTUCKY	0.0810	0.0790	0.0820	0.0795	0.0882	0.0908	0.0871
CINCINNATI BELL-KENTUCKY	0.0419	0.0430	0.0493	0.0602	0.0641	0.0874	0.0888
SOUTH CENTRAL BELL-KENTUCKY	0.0643	0.0667	0.0667	0.0676	0.0743	0.0832	0.0951
SOUTH CENTRAL BELL-LOUISIANA	0.0579	0.0597	0.0595	0.0611	0.0694	0.0813	0.0849
SOUTH CENTRAL BELL-MISSISSIPPI	0.0734	0.0781	0.0780	0.0803	0.0874	0.0991	0.1096
GTE SOUTH-TENNESSEE	0.0620	0.0683	0.0853	0.0862	0.0896	0.1149	0.0975
UNITED INTER-MOUNTAIN-TN	0.0684	0.0723	0.0782	0.0811	0.0895	0.0933	0.0905
SOUTH CENTRAL BELL-TENNESSEE	0.0640	0.0693	0.0733	0.0777	0.0895	0.0932	0.1038
GTE NORTH-OHIO	0.0651	0.0692	0.0647	0.0660	0.0685	0.0683	0.0796
CENDEL-OHIO	0.0000	0.0514	0.0564	0.0567	0.0673	0.0826	0.0864
UNITED TEL.-OHIO	0.0636	0.0659	0.0698	0.0752	0.0793	0.0901	0.0817
CINCINNATI BELL-OHIO	0.0531	0.0580	0.0644	0.0672	0.0687	0.0959	0.1025
OHIO BELL	0.0570	0.0587	0.0599	0.0593	0.0670	0.0801	0.0986
GTE NORTH-MICHIGAN	0.0543	0.0554	0.0602	0.0618	0.0000	0.0695	0.0822
MICHIGAN BELL	0.0496	0.0511	0.0504	0.0504	0.0652	0.0776	0.0851
GTE NORTH-INDIANA	0.0899	0.0974	0.0977	0.0966	0.0980	0.1061	0.1095
UNITED TEL.-INDIANA	0.0924	0.0995	0.0987	0.1050	0.1052	0.1123	0.1027

TABLE 4.20  
INTERSTATE SLU FACTORS,  
BY COMPANY

carrier	1980	1981	1982	1983	1984	1985	1986
INDIANA BELL	0.0689	0.0729	0.0717	0.0743	0.0834	0.1008	0.1041
GTE NORTH-WISCONSIN	0.0796	0.0835	0.0842	0.0873	0.0920	0.0991	0.1010
WISCONSIN BELL	0.0625	0.0679	0.0694	0.0726	0.0874	0.0959	0.1058
CENTEL-ILLINOIS	0.0000	0.0911	0.0872	0.0952	0.1032	0.1145	0.1386
GTE NORTH-ILLINOIS	0.0717	0.0798	0.0830	0.0830	0.0798	0.0850	0.0895
ILLINOIS BELL	0.0798	0.0807	0.0773	0.0780	0.0930	0.1038	0.1111
GTE NORTH-IOWA	0.0774	0.0887	0.0872	0.0882	0.0948	0.1031	0.1040
UNITED TEL.-IOWA	0.0000	0.0787	0.0830	0.0865	0.1002	0.1209	0.1183
US WEST-IOWA	0.0839	0.0962	0.0907	0.0988	0.1177	0.1420	0.1478
GTE NORTH-MN	0.0861	0.0899	0.0968	0.0993	0.1123	0.1147	0.1142
CENTEL-MN	0.0685	0.0713	0.0721	0.0718	0.0844	0.0892	0.0938
UNITED TEL.-MINNESOTA	0.0000	0.0551	0.0551	0.0566	0.0596	0.0702	0.0718
US WEST-MINNESOTA	0.0740	0.0788	0.0773	0.0797	0.0858	0.1097	0.1178
GTE NORTH-NEBRASKA	0.0735	0.0809	0.0808	0.0829	0.0920	0.1001	0.1038
LINCOLN TEL. & TEL.	0.0883	0.0913	0.0905	0.0861	0.1006	0.1075	0.1188
UNITED TEL.-NEBRASKA	0.0000	0.1186	0.1239	0.1215	0.1311	0.1466	0.1515
US WEST-NEBRASKA	0.1054	0.1173	0.1178	0.1151	0.1303	0.1460	0.1610
US WEST-NORTH DAKOTA	0.0915	0.0991	0.1071	0.1049	0.1115	0.1322	0.1412
US WEST-SOUTH DAKOTA	0.1022	0.1106	0.1137	0.1239	0.1437	0.1466	0.1661
UNITED TEL.-ARKANSAS	0.1038	0.1112	0.1163	0.1221	0.1218	0.1418	0.1541
GTE SOUTHWEST-ARKANSAS	0.0835	0.0920	0.0910	0.0847	0.0912	0.1057	0.1079
SWB-ARKANSAS	0.0806	0.0886	0.0897	0.0915	0.1006	0.1179	0.1135
UNITED TEL.-KANSAS	0.1340	0.1367	0.1362	0.1433	0.1478	0.1577	0.1715
SWB-KANSAS	0.0834	0.0907	0.0906	0.0951	0.1061	0.1181	0.1186
GTE NORTH-MISSOURI	0.0889	0.0901	0.0929	0.0963	0.1039	0.1135	0.1248
UNITED TEL.-MO	0.0964	0.1039	0.1104	0.1187	0.1095	0.1460	0.1453
SWB-MISSOURI	0.0824	0.0831	0.0808	0.0835	0.0912	0.1082	0.1016
GTE SOUTHWEST-OKLAHOMA	0.0974	0.0981	0.1016	0.0948	0.1030	0.1107	0.1201
SWB-OKLAHOMA	0.0890	0.0947	0.0966	0.0925	0.1004	0.1124	0.1098
GTE SOUTHWEST-TEXAS	0.0623	0.0683	0.0678	0.0651	0.0751	0.0774	0.0820
UNITED TEL.-TEXAS	0.0000	0.0000	0.0479	0.0439	0.0544	0.0628	0.0606
CENTEL-TEXAS	0.0986	0.1000	0.0940	0.0985	0.1181	0.1222	0.1443
COMTEL-TEXAS	0.0580	0.0618	0.0647	0.0629	0.0714	0.0864	0.0819
SWB-TEXAS	0.0598	0.0631	0.0652	0.0650	0.0724	0.0854	0.0802
US WEST-ARIZONA	0.1153	0.1148	0.1167	0.1087	0.1323	0.1415	0.1461
US WEST-COLORADO	0.1095	0.1176	0.1180	0.1227	0.1383	0.1450	0.1595
GTE NORTHWEST-IDAHO	0.1661	0.1826	0.1825	0.1796	0.2038	0.2113	0.2244
US WEST-IDAHO	0.1012	0.1049	0.1065	0.1148	0.1350	0.1561	0.1640
US WEST-IDAHO-PNB	0.1099	0.1121	0.1203	0.1167	0.1285	0.1377	0.1500
GTE NORTHWEST-MONTANA	0.1356	0.1346	0.1351	0.1315	0.1534	0.1663	0.1689
US WEST-MONTANA	0.1120	0.1248	0.1252	0.1225	0.1365	0.1493	0.1500
GTE SOUTHWEST-NEW MEXICO	0.1326	0.1348	0.1498	0.1241	0.1615	0.1665	0.1512
US WEST-NEW MEXICO	0.0991	0.1034	0.1084	0.1099	0.1254	0.1346	0.1405
US WEST-UTAH	0.0810	0.0895	0.0918	0.0971	0.1048	0.1225	0.1290
UNITED TEL.-WYOMING	0.0000	0.1674	0.1621	0.1573	0.1749	0.2050	0.2255
US WEST-WYOMING	0.1577	0.1723	0.1738	0.1751	0.2114	0.2016	0.2080
UNITED TEL.-NW-WA	0.1117	0.1132	0.1135	0.1192	0.1324	0.1365	0.1356
GTE NORTHWEST-WASHINGTON	0.0778	0.0868	0.0888	0.0924	0.0923	0.0976	0.0917
US WEST-WASHINGTON	0.0789	0.0838	0.0879	0.0883	0.1042	0.1223	0.1244
UNITED TEL.-NW-OR	0.1170	0.1186	0.1231	0.1280	0.1372	0.1384	0.1491
GTE NORTHWEST-OREGON	0.1024	0.1069	0.1031	0.1054	0.1020	0.1049	0.1036
US WEST-OREGON	0.0817	0.0940	0.0963	0.0986	0.1189	0.1552	0.1438
COMTEL-CALIFORNIA	0.0630	0.0639	0.0662	0.0710	0.0733	0.0796	0.0852

TABLE 4.20  
 INTERSTATE SLU FACTORS,  
 BY COMPANY

carrier	1980	1981	1982	1983	1984	1985	1986
GTE OF CALIFORNIA	0.0557	0.0570	0.0567	0.0581	0.0590	0.0700	0.0817
GTE NORTHWEST-CALIFORNIA	0.1310	0.1265	0.1235	0.1233	0.1195	0.1269	0.1170
PACIFIC BELL	0.0587	0.0596	0.0601	0.0639	0.0722	0.0834	0.0825
CENTEL-NV	0.1502	0.1553	0.1554	0.1560	0.2003	0.1874	0.2387
NEVADA BELL	0.1822	0.1885	0.1846	0.1966	0.2098	0.2179	0.2036
DIAMOND STATE TELEPHONE	0.1264	0.1284	0.1296	0.1326	0.1507	0.1804	0.1784
C&P OF WASHINGTON D.C.	0.1322	0.1341	0.1327	0.1362	0.1531	0.1917	0.1834
NEW ENGLAND TEL.-RHODE ISLAND	0.0963	0.0990	0.1016	0.1061	0.1159	0.1392	0.1376
GTE HAWAIIAN TELCO	0.0000	0.0000	0.0595	0.0678	0.0656	0.0829	0.0904
PUERTO RICO TELEPHONE CO.	0.0000	0.0000	0.0000	0.0000	0.0644	0.0784	0.0819
ALL OTHER COST COMPANIES	0.0000	0.0000	0.0000	0.0000	0.0948	0.0990	0.1006

TABLE 4.21

INTERSTATE SUBSCRIBER PLANT FACTORS,  
BY COMPANY

carrier	1980	1981	1982	1983	1984	1985	1986
NEW ENGLAND TEL.-MAINE	0.2725	0.2987	0.2924	0.2987	0.2987	0.2987	0.2987
NEW ENGLAND TEL.-MA	0.2581	0.2794	0.2786	0.2794	0.2794	0.2794	0.2794
NEW ENGLAND TEL.-NH	0.4274	0.4299	0.4243	0.4299	0.4299	0.4299	0.4299
SOUTHERN NEW ENGLAND TEL.	0.3388	0.3388	0.3388	0.3388	0.3388	0.3388	0.3277
NEW ENGLAND TEL.-VERMONT	0.4222	0.4394	0.4372	0.4394	0.4394	0.4394	0.4394
CONTEL-NEW YORK	0.2208	0.2286	0.2379	0.2286	0.2286	0.2286	0.2313
ROCHESTER	0.0000	0.0000	0.0000	0.0000	0.2184	0.2217	0.2217
NEW YORK TELEPHONE	0.2710	0.2761	0.2731	0.2647	0.2823	0.2823	0.2783
UNITED TEL.-NEW JERSEY	0.0000	0.4156	0.4156	0.4156	0.4156	0.4156	0.3949
NEW JERSEY BELL	0.3108	0.3154	0.3188	0.3186	0.3186	0.3186	0.3100
GTE NORTH-PA	0.1813	0.1797	0.1785	0.1785	0.2236	0.2258	0.2215
UNITED TEL.-PA	0.2108	0.2197	0.2197	0.2197	0.2197	0.2197	0.2235
BELL OF PENNSYLVANIA	0.2090	0.2138	0.2154	0.2152	0.2152	0.2152	0.2195
C&P OF MARYLAND	0.2112	0.2121	0.2117	0.2142	0.2142	0.2142	0.2186
CONTEL-VIRGINIA	0.0000	0.3248	0.3332	0.3248	0.3248	0.3248	0.3154
CENTEL-VIRGINIA	0.2838	0.2903	0.2903	0.2903	0.2903	0.2903	0.2853
GTE SOUTH-VIRGINIA	0.1972	0.2079	0.2005	0.2005	0.2005	0.2005	0.2005
UNITED INTER-MOUNTAIN-VA	0.1910	0.2103	0.2103	0.2103	0.2103	0.2129	0.2175
C&P OF VIRGINIA	0.2564	0.2666	0.2680	0.2693	0.2693	0.2693	0.2669
GTE SOUTH-WEST VIRGINIA	0.2851	0.2957	0.2933	0.2933	0.2933	0.2933	0.2933
C&P OF WEST VIRGINIA	0.2042	0.2124	0.2151	0.2152	0.2152	0.2152	0.2195
GTE OF FLORIDA	0.3634	0.4053	0.4335	0.4335	0.4354	0.4354	0.4354
CENTEL OF FLORIDA	0.3398	0.3593	0.3605	0.3593	0.3593	0.3593	0.3405
UNITED TEL.-FLORIDA	0.0000	0.5015	0.5015	0.5015	0.5015	0.5015	0.4700
SOUTHERN BELL-FLORIDA	0.3492	0.3646	0.3643	0.3643	0.3643	0.3643	0.3500
GTE SOUTH-GEORGIA	0.2060	0.2148	0.2213	0.2170	0.2170	0.2170	0.2170
SOUTHERN BELL-GEORGIA	0.2741	0.2892	0.2891	0.2891	0.2891	0.2891	0.2842
CAROLINA TELEPHONE & TELEGRAPH	0.2340	0.2444	0.2444	0.2444	0.2444	0.2444	0.2451
CENTEL-NORTH CAROLINA	0.1892	0.2009	0.2009	0.2009	0.2009	0.2009	0.2070
GTE SOUTH-NORTH CAROLINA	0.2632	0.2992	0.3102	0.3102	0.3102	0.3102	0.3102
SOUTHERN BELL-NORTH CAROLINA	0.2213	0.2442	0.2444	0.2444	0.2444	0.2441	0.2448
GTE SOUTH-SOUTH CAROLINA	0.3590	0.3705	0.3261	0.3291	0.3291	0.3291	0.3291
UNITED OF THE CAROLINAS	0.2733	0.2916	0.2916	0.2916	0.2916	0.2916	0.2864
SOUTHERN BELL-SOUTH CAROLINA	0.2013	0.2207	0.2207	0.2207	0.2207	0.2207	0.2244
GTE SOUTH-ALABAMA	0.2907	0.3172	0.3123	0.3123	0.3123	0.3123	0.3123
SOUTH CENTRAL BELL-ALABAMA	0.2002	0.2077	0.2078	0.2078	0.2078	0.2078	0.2131
GTE SOUTH-KENTUCKY	0.2553	0.2503	0.2537	0.2537	0.2537	0.2537	0.2537
CINCINNATI BELL-KENTUCKY	0.1205	0.1304	0.1304	0.1304	0.1304	0.1304	0.1454
SOUTH CENTRAL BELL-KENTUCKY	0.1962	0.2030	0.2047	0.2047	0.2047	0.2047	0.2103
SOUTH CENTRAL BELL-LOUISIANA	0.1934	0.1985	0.2023	0.2023	0.2023	0.2023	0.2082
SOUTH CENTRAL BELL-MISSISSIPPI	0.2338	0.2493	0.2492	0.2492	0.2492	0.2492	0.2493
GTE SOUTH-TENNESSEE	0.2054	0.2275	0.2335	0.2335	0.2335	0.2335	0.2335
UNITED INTER-MOUNTAIN-TN	0.2088	0.2192	0.2192	0.2192	0.2192	0.2192	0.2231
SOUTH CENTRAL BELL-TENNESSEE	0.2065	0.2220	0.2236	0.2236	0.2236	0.2236	0.2269
GTE NORTH-OHIO	0.2128	0.2218	0.2223	0.2226	0.2226	0.2258	0.2258
CENTEL-OHIO	0.0000	0.1784	0.1837	0.1784	0.1784	0.1784	0.1874
UNITED TEL.-OHIO	0.2091	0.2168	0.2168	0.2168	0.2168	0.2168	0.2209
CINCINNATI BELL-OHIO	0.1904	0.1973	0.1973	0.1973	0.1973	0.1973	0.2039
OHIO BELL	0.1841	0.1896	0.1845	0.1972	0.1972	0.1972	0.1972
GTE NORTH-MICHIGAN	0.1808	0.1845	0.1912	0.1920	0.0000	0.1920	0.1920
MICHIGAN BELL	0.1642	0.1691	0.1636	0.1725	0.1725	0.1725	0.1725
GTE NORTH-INDIANA	0.2869	0.3106	0.3179	0.3179	0.3182	0.3182	0.3182
UNITED TEL.-INDIANA	0.2880	0.3059	0.3067	0.3067	0.3067	0.3067	0.3020

TABLE 4.21

INTERSTATE SUBSCRIBER PLANT FACTORS,  
BY COMPANY

carrier	1980	1981	1982	1983	1984	1985	1986
INDIANA BELL	0.2184	0.2311	0.2261	0.2355	0.2355	0.2355	0.2355
GTE NORTH-WISCONSIN	0.2570	0.2697	0.2611	0.2611	0.2611	0.2611	0.2611
WISCONSIN BELL	0.1994	0.2166	0.2109	0.2201	0.2201	0.2201	0.2201
CENTEL-ILLINOIS	0.0000	0.3181	0.3168	0.3181	0.3181	0.3181	0.3096
GTE NORTH-ILLINOIS	0.2301	0.2561	0.2570	0.2570	0.2570	0.2570	0.2570
ILLINOIS BELL	0.2609	0.2639	0.2550	0.2701	0.2701	0.2701	0.2701
GTE NORTH-IOWA	0.2502	0.2864	0.2856	0.2856	0.2856	0.2856	0.2856
UNITED TEL.-IOWA	0.0000	0.2574	0.2574	0.2574	0.2574	0.2574	0.2565
US WEST-IOWA	0.2677	0.3069	0.2894	0.3152	0.2849	0.2849	0.2805
GTE NORTH-MN	0.2421	0.2473	0.2604	0.2604	0.2604	0.2604	0.2604
CENTEL-MN	0.2269	0.2344	0.2299	0.2344	0.2344	0.2344	0.2364
UNITED TEL.-MINNESOTA	0.0000	0.1913	0.1913	0.1913	0.1913	0.1913	0.1986
US WEST-MINNESOTA	0.2555	0.2718	0.2665	0.2750	0.2707	0.2707	0.2681
GTE NORTH-NEBRASKA	0.2506	0.2759	0.2718	0.2718	0.2715	0.2718	0.2715
LINCOLN TEL. & TEL.	0.3055	0.3167	0.3167	0.3167	0.3167	0.3167	0.3083
UNITED TEL.-NEBRASKA	0.0000	0.3783	0.3783	0.3783	0.3783	0.3783	0.3323
US WEST-NEBRASKA	0.3469	0.3858	0.3876	0.3787	0.3784	0.3784	0.3623
US WEST-NORTH DAKOTA	0.2993	0.3241	0.3503	0.3430	0.3241	0.3241	0.3149
US WEST-SOUTH DAKOTA	0.3301	0.3571	0.3674	0.4002	0.3620	0.3620	0.3480
UNITED TEL.-ARKANSAS	0.3457	0.3457	0.3457	0.3457	0.3457	0.3457	0.3337
GTE SOUTHWEST-ARKANSAS	0.2729	0.3008	0.2896	0.2896	0.2896	0.2896	0.2896
SWB-ARKANSAS	0.2597	0.2855	0.2851	0.2855	0.2855	0.2855	0.2855
UNITED TEL.-KANSAS	0.4663	0.4663	0.4663	0.4663	0.4663	0.4663	0.4332
SWB-KANSAS	0.2758	0.2997	0.2999	0.3001	0.3001	0.3001	0.3001
GTE NORTH-MISSOURI	0.2979	0.3017	0.3115	0.3115	0.3115	0.3115	0.3155
UNITED TEL.-MO	0.3503	0.3503	0.3503	0.3503	0.3503	0.3503	0.3378
SWB-MISSOURI	0.2691	0.2711	0.2671	0.2709	0.2709	0.2709	0.2709
GTE SOUTHWEST-OKLAHOMA	0.3167	0.3208	0.3302	0.3302	0.3302	0.3302	0.3302
SWB-OKLAHOMA	0.3031	0.3222	0.3239	0.3228	0.3223	0.3223	0.3222
GTE SOUTHWEST-TEXAS	0.2261	0.2493	0.2504	0.2504	0.2506	0.2506	0.2506
UNITED TEL.-TEXAS	0.0000	0.1722	0.1722	0.1722	0.1722	0.1722	0.1820
CENTEL-TEXAS	0.4094	0.4130	0.3973	0.4145	0.4118	0.3847	0.3678
CONTEL-TEXAS	0.2072	0.2194	0.2220	0.2194	0.2194	0.2194	0.2232
SWB-TEXAS	0.2205	0.2327	0.2372	0.2347	0.2347	0.2347	0.2347
US WEST-ARIZONA	0.4279	0.4242	0.4423	0.4120	0.4364	0.4364	0.4131
US WEST-COLORADO	0.3925	0.4294	0.4308	0.4477	0.4298	0.4298	0.4073
GTE NORTHWEST-IDAHO	0.5299	0.5863	0.5895	0.5801	0.5731	0.5731	0.5731
US WEST-IDAHO	0.3409	0.3534	0.3589	0.3867	0.3535	0.3535	0.3406
US WEST-IDAHO-PNB	0.3705	0.3778	0.4055	0.3931	0.3787	0.3787	0.3626
GTE NORTHWEST-MONTANA	0.4597	0.4591	0.4363	0.4510	0.4648	0.4648	0.4648
US WEST-MONTANA	0.3998	0.4454	0.4469	0.4372	0.4450	0.4450	0.4207
GTE SOUTHWEST-NEW MEXICO	0.4203	0.4300	0.4534	0.4853	0.4853	0.4853	0.4853
US WEST-NEW MEXICO	0.3457	0.3607	0.3782	0.3835	0.3577	0.3577	0.3442
US WEST-UTAH	0.2851	0.3195	0.3278	0.3466	0.3195	0.3195	0.3108
UNITED TEL.-WYOMING	0.0000	0.5004	0.5004	0.5004	0.5004	0.5004	0.4691
US WEST-WYOMING	0.5220	0.5704	0.5754	0.5795	0.5670	0.5670	0.5274
UNITED TEL.-NW-WA	0.3987	0.4063	0.4063	0.4063	0.4063	0.4063	0.3867
GTE NORTHWEST-WASHINGTON	0.2964	0.3307	0.3384	0.3557	0.3263	0.3263	0.3263
US WEST-WASHINGTON	0.2848	0.3027	0.3174	0.3187	0.3024	0.3024	0.2959
UNITED TEL.-NW-OR	0.4129	0.4209	0.4148	0.4209	0.4209	0.4209	0.3996
GTE NORTHWEST-OREGON	0.3737	0.3903	0.3786	0.3846	0.3917	0.3917	0.3917
US WEST-OREGON	0.2852	0.3281	0.3361	0.3443	0.3276	0.3276	0.3179
CONTEL-CALIFORNIA	0.2500	0.2536	0.2537	0.2537	0.2537	0.2537	0.2532

TABLE 4.21  
 INTERSTATE SUBSCRIBER PLANT FACTORS,  
 BY COMPANY

carrier	1980	1981	1982	1983	1984	1985	1986
GTE OF CALIFORNIA	0.2355	0.2413	0.2445	0.2445	0.2486	0.2489	0.2489
GTE NORTHWEST-CALIFORNIA	0.4259	0.4086	0.4015	0.4008	0.3980	0.3980	0.3980
PACIFIC BELL	0.2438	0.2472	0.2495	0.2496	0.2466	0.2496	0.2496
CENTEL-NV	0.5723	0.5886	0.5886	0.5886	0.5886	0.5886	0.5463
NEVADA BELL	0.5993	0.6201	0.6073	0.6264	0.6264	0.6264	0.5793
DIAMOND STATE TELEPHONE	0.3375	0.3428	0.3436	0.3452	0.3452	0.3452	0.3333
C&P OF WASHINGTON D.C.	0.4298	0.4360	0.4358	0.4376	0.4376	0.4376	0.4142
NEW ENGLAND TEL.-RHODE ISLAND	0.2673	0.2868	0.2847	0.2868	0.2868	0.2868	0.2868
GTE HAWAIIAN TELCO	0.0000	0.0000	0.2885	0.2807	0.2885	0.2885	0.2885
PUERTO RICO TELEPHONE CO.	0.0000	0.0000	0.0000	0.0000	0.2569	0.2569	0.2560
ALL OTHER COST COMPANIES	0.0000	0.0000	0.0000	0.0000	0.3216	0.3263	0.3072

TABLE 4.22

INTERSTATE DEM FACTORS,  
BY COMPANY

carrier	1980	1981	1982	1983	1984	1985	1986
NEW ENGLAND TEL.-MAINE	0.0859	0.0910	0.0958	0.1029	0.1135	0.1358	0.1494
NEW ENGLAND TEL.-MA	0.0863	0.0903	0.0944	0.1031	0.1190	0.1322	0.1444
NEW ENGLAND TEL.-NH	0.1496	0.1556	0.1626	0.1739	0.1861	0.2137	0.2394
SOUTHERN NEW ENGLAND TEL.	0.1121	0.1166	0.1196	0.1273	0.1494	0.1689	0.1698
NEW ENGLAND TEL.-VERMONT	0.1483	0.1491	0.1498	0.1553	0.1736	0.1910	0.2093
CONTEL-NEW YORK	0.0659	0.0681	0.0710	0.0744	0.0827	0.0958	0.1038
ROCHESTER	0.0000	0.0000	0.0000	0.0000	0.0721	0.0759	0.0856
NEW YORK TELEPHONE	0.0840	0.0857	0.0883	0.0887	0.1160	0.1285	0.1362
UNITED TEL.-NEW JERSEY	0.0000	0.1337	0.1373	0.1447	0.1472	0.1630	0.1751
NEW JERSEY BELL	0.1156	0.1177	0.1234	0.1307	0.1476	0.1764	0.1757
GTE NORTH-PA	0.0934	0.1008	0.1009	0.0960	0.1104	0.0954	0.1289
UNITED TEL.-PA	0.0673	0.0702	0.0707	0.0733	0.0860	0.0932	0.0989
BELL OF PENNSYLVANIA	0.0720	0.0739	0.0768	0.0841	0.1025	0.1215	0.1153
C&P OF MARYLAND	0.0697	0.0700	0.0691	0.0723	0.0824	0.1013	0.1108
CONTEL-VIRGINIA	0.0000	0.1018	0.1045	0.1080	0.1240	0.1363	0.1527
CENTEL-VIRGINIA	0.0000	0.0918	0.0917	0.0994	0.1065	0.1177	0.1245
GTE SOUTH-VIRGINIA	0.1266	0.1342	0.1296	0.1266	0.1437	0.1583	0.1551
UNITED INTER-MOUNTAIN-VA	0.0000	0.0714	0.0740	0.0749	0.0905	0.1035	0.1089
C&P OF VIRGINIA	0.0774	0.0808	0.0816	0.0858	0.1026	0.1127	0.1166
GTE SOUTH-WEST VIRGINIA	0.1661	0.1733	0.1656	0.1662	0.1864	0.2079	0.2162
C&P OF WEST VIRGINIA	0.0697	0.0725	0.0734	0.0764	0.0860	0.0935	0.1001
GTE OF FLORIDA	0.1345	0.1453	0.1492	0.1454	0.1541	0.1646	0.1755
CENTEL OF FLORIDA	0.0972	0.1057	0.1121	0.1127	0.1124	0.1258	0.1323
UNITED TEL.-FLORIDA	0.0000	0.1282	0.1316	0.1341	0.1275	0.1423	0.1514
SOUTHERN BELL-FLORIDA	0.0913	0.0957	0.0996	0.1048	0.1165	0.1255	0.1385
GTE SOUTH-GEORGIA	0.1033	0.1048	0.1018	0.1043	0.1265	0.1331	0.1344
SOUTHERN BELL-GEORGIA	0.0813	0.0855	0.0907	0.0902	0.0977	0.1086	0.1189
CAROLINA TELEPHONE & TELEGRAPH	0.0699	0.0725	0.0741	0.0800	0.0878	0.1026	0.1134
CENTEL-NORTH CAROLINA	0.0000	0.0594	0.0582	0.6229	0.8806	0.0757	0.0823
GTE SOUTH-NORTH CAROLINA	0.1105	0.1195	0.1220	0.0000	0.1236	0.1798	0.1896
SOUTHERN BELL-NORTH CAROLINA	0.0697	0.0771	0.0806	0.0867	0.0910	0.0982	0.1070
GTE SOUTH-SOUTH CAROLINA	0.1532	0.1588	0.1633	0.1728	0.1639	0.2105	0.2127
UNITED OF THE CAROLINAS	0.0000	0.0870	0.0939	0.0950	0.1100	0.1107	0.1087
SOUTHERN BELL-SOUTH CAROLINA	0.0635	0.0697	0.0726	0.0790	0.0831	0.0856	0.1072
GTE SOUTH-ALABAMA	0.1443	0.1478	0.1443	0.1501	0.1678	0.1899	0.1914
SOUTH CENTRAL BELL-ALABAMA	0.0606	0.0630	0.0643	0.0656	0.0761	0.0954	0.1006
GTE SOUTH-KENTUCKY	0.1160	0.1181	0.1191	0.1147	0.1208	0.1690	0.1654
CINCINNATI BELL-KENTUCKY	0.0419	0.0430	0.0493	0.0602	0.0641	0.0885	0.0893
SOUTH CENTRAL BELL-KENTUCKY	0.0640	0.0666	0.0675	0.0692	0.0785	0.0916	0.1049
SOUTH CENTRAL BELL-LOUISIANA	0.0581	0.0601	0.0610	0.0642	0.0748	0.0919	0.0939
SOUTH CENTRAL BELL-MISSISSIPPI	0.0727	0.0774	0.0775	0.0803	0.0885	0.1062	0.1185
GTE SOUTH-TENNESSEE	0.0984	0.1135	0.1339	0.1399	0.1424	0.1871	0.1678
UNITED INTER-MOUNTAIN-TN	0.0000	0.0696	0.0742	0.0770	0.0828	0.0943	0.0952
SOUTH CENTRAL BELL-TENNESSEE	0.0625	0.0685	0.0748	0.0810	0.0976	0.1116	0.1154
GTE NORTH-OHIO	0.1032	0.1051	0.1030	0.1030	0.1087	0.1164	0.1251
CENTEL-OHIO	0.0000	0.0513	0.0563	0.0567	0.0710	0.0815	0.0886
UNITED TEL.-OHIO	0.0636	0.0659	0.0698	0.0752	0.0823	0.0940	0.0930
CINCINNATI BELL-OHIO	0.0531	0.0580	0.0644	0.0672	0.0687	0.1140	0.1156
OHIO BELL	0.0566	0.0594	0.0645	0.0637	0.0705	0.0742	0.0842
GTE NORTH-MICHIGAN	0.0852	0.0882	0.0000	0.0933	0.1043	0.1106	0.1196
MICHIGAN BELL	0.0473	0.0484	0.0494	0.0596	0.0619	0.0674	0.0674
GTE NORTH-INDIANA	0.1277	0.1373	0.1357	0.1354	0.1424	0.1588	0.1689
UNITED TEL.-INDIANA	0.0877	0.0951	0.0942	0.0997	0.0993	0.1035	0.1073



TABLE 4.22

INTERSTATE DEM FACTORS,  
BY COMPANY

carrier	1980	1981	1982	1983	1984	1985	1986
INDIANA BELL	0.0674	0.0706	0.0766	0.0777	0.0767	0.0845	0.0845
GTE NORTH-WISCONSIN	0.1277	0.1298	0.1287	0.1327	0.1418	0.1488	0.1532
WISCONSIN BELL	0.0644	0.0696	0.0774	0.0765	0.0792	0.0807	0.0864
CENTEL-ILLINOIS	0.0000	0.0911	0.0872	0.0952	0.1032	0.1151	0.1410
GTE NORTH-ILLINOIS	0.1130	0.1210	0.1239	0.1243	0.1211	0.1074	0.1333
ILLINOIS BELL	0.0757	0.0779	0.0797	0.0775	0.0842	0.0895	0.0917
GTE NORTH-IOWA	0.1232	0.1365	0.1365	0.1404	0.1434	0.1128	0.1633
UNITED TEL.-IOWA	0.0000	0.0768	0.0810	0.0845	0.0961	0.1189	0.1270
US WEST-IOWA	0.0824	0.0882	0.0950	0.0935	0.1013	0.1651	0.1742
GTE NORTH-MN	0.1413	0.1513	0.1538	0.1652	0.1717	0.1613	0.1814
CENTEL-MN	0.0659	0.0682	0.0681	0.0678	0.0792	0.0838	0.0929
UNITED TEL.-MINNESOTA	0.0000	0.0503	0.0499	0.0517	0.0559	0.0665	0.0735
US WEST-MINNESOTA	0.0719	0.0764	0.0678	0.0748	0.0788	0.1257	0.1321
GTE NORTH-NEBRASKA	0.1140	0.1186	0.0000	0.1214	0.1304	0.1488	0.1666
LINCOLN TEL. & TEL.	0.0883	0.0913	0.0905	0.0861	0.1006	0.1075	0.1188
UNITED TEL.-NEBRASKA	0.0000	0.1184	0.1216	0.1209	0.1287	0.1457	0.1455
US WEST-NEBRASKA	0.0089	0.1119	0.1081	0.1090	0.1133	0.1609	0.1733
US WEST-NORTH DAKOTA	0.0916	0.0991	0.0910	0.1021	0.1072	0.1424	0.1525
US WEST-SOUTH DAKOTA	0.1022	0.1106	0.1137	0.1210	0.1322	0.1510	0.1844
UNITED TEL.-ARKANSAS	0.1007	0.0000	0.1122	0.1157	0.1178	0.1331	0.1541
GTE SOUTHWEST-ARKANSAS	0.1453	0.1472	0.1444	0.1439	0.1414	0.1646	0.1802
SWB-ARKANSAS	8.0606	8.8833	0.0906	0.0934	0.1069	0.1300	0.1351
UNITED TEL.-KANSAS	0.1331	0.0000	0.1348	0.1410	0.1454	0.1558	0.1729
SWB-KANSAS	0.0806	8.8948	0.0908	0.0967	0.1128	0.1289	0.1359
GTE NORTH-MISSOURI	0.1330	0.1359	0.1350	0.1457	0.1543	0.1690	0.1869
UNITED TEL.-MO	0.0943	0.1009	0.1070	0.1141	0.1047	0.1414	0.1484
SWB-MISSOURI	8.0347	0.0824	0.0838	0.0897	0.1024	0.1264	0.1253
GTE SOUTHWEST-OKLAHOMA	0.1460	0.1472	0.1445	0.1417	0.1408	0.1546	0.1685
SWB-OKLAHOMA	0.0827	0.0887	0.0942	0.0931	0.1103	0.1258	0.1239
GTE SOUTHWEST-TEXAS	0.0943	0.0943	0.0000	0.0895	0.0942	0.1014	0.1162
UNITED TEL.-TEXAS	0.0000	0.0000	0.0485	0.0437	0.0550	0.0608	0.0600
CENTEL-TEXAS	0.0963	0.0981	0.1043	0.0854	0.1172	0.1218	0.1429
CONTEL-TEXAS	0.0571	0.0609	0.0640	0.0619	0.0698	0.0902	0.0851
SWB-TEXAS	0.0586	0.0635	0.0672	0.0690	0.0804	0.0980	0.0952
US WEST-ARIZONA	0.1109	0.1103	0.1092	0.1080	0.1107	0.1569	0.1597
US WEST-COLORADO	0.1074	0.1153	0.1134	0.1129	0.1129	0.1602	0.1730
GTE NORTHWEST-IDAHO	0.2597	0.2721	0.0000	0.2698	0.2903	0.3075	0.3124
US WEST-IDAHO	0.1012	0.1049	0.1060	0.1119	0.1203	0.1705	0.1718
US WEST-IDAHO-PNB	0.1097	0.1121	0.1115	0.1167	0.1282	0.1377	0.1511
GTE NORTHWEST-MONTANA	0.2247	0.2330	0.2376	0.2218	0.2436	0.2631	0.2689
US WEST-MONTANA	0.1119	0.1248	0.1252	0.1241	0.1337	0.1606	0.1557
GTE SOUTHWEST-NEW MEXICO	0.2068	0.2135	0.2169	0.2230	0.2290	0.2290	0.2129
US WEST-NEW MEXICO	0.0949	0.1025	0.1056	0.1051	0.1102	0.1489	0.1553
US WEST-UTAH	0.7375	0.0876	0.0812	0.1248	0.0852	0.1433	0.1392
UNITED TEL.-WYOMING	0.0000	0.1672	0.1617	0.1565	0.1735	0.2050	0.2268
US WEST-WYOMING	0.1385	0.1720	0.1696	0.1648	0.1720	0.2129	0.2183
UNITED TEL.-NW-WA	0.1117	0.1132	0.1135	0.1192	0.1324	0.1370	0.1404
GTE NORTHWEST-WASHINGTON	0.1086	0.1149	0.1140	0.1163	0.1199	0.1231	0.1249
US WEST-WASHINGTON	0.0786	0.0836	0.0870	0.0851	0.0842	0.1378	0.1339
UNITED TEL.-NW-OR	0.1170	0.1186	0.1231	0.1280	0.1372	0.1385	0.1526
GTE NORTHWEST-OREGON	0.1356	0.1361	0.1327	0.1328	0.1349	0.1367	0.1587
US WEST-OREGON	0.0878	0.0938	0.0950	0.0876	0.0005	0.1888	0.1574
CONTEL-CALIFORNIA	0.0630	0.0639	0.0662	0.0710	0.0733	0.0805	0.0860

TABLE 4.22  
 INTERSTATE DEM FACTORS,  
 BY COMPANY

carrier	1980	1981	1982	1983	1984	1985	1986
GTE OF CALIFORNIA	0.0000	0.0751	0.0728	0.0722	0.0625	0.0840	0.0939
GTE NORTHWEST-CALIFORNIA	0.0000	0.1768	0.1714	0.1716	0.1796	0.1815	0.1762
PACIFIC BELL	0.0607	0.0619	0.0644	0.0722	0.0881	0.0970	0.0964
CENTEL-NV	0.1856	0.1926	0.1855	0.1838	0.2521	0.2303	0.2949
NEVADA BELL	0.1831	0.1893	0.1884	0.2034	0.2204	0.2341	0.2331
DIAMOND STATE TELEPHONE	0.1282	0.1299	0.1321	0.1372	0.1589	0.1878	0.1989
C&P OF WASHINGTON D.C.	0.0991	0.1022	0.1076	0.1226	0.1568	0.2091	0.2145
NEW ENGLAND TEL.-RHODE ISLAND	0.0981	0.1018	0.1053	0.1119	0.1277	0.1487	0.1654
GTE HAWAIIAN TELCO	0.0000	0.0000	0.0958	0.1041	0.1058	0.1163	0.1380
PUERTO RICO TELEPHONE CO.	0.0000	0.0000	0.0000	0.0000	0.0644	0.0784	0.0818
ALL OTHER COST COMPANIES	0.0000	0.0000	0.0000	0.0000	0.0948	0.0990	0.1006

TABLE 4.23

WEIGHTED DEM FACTORS,  
BY COMPANY

carrier	1980	1981	1982	1983	1984	1985	1986
NEW ENGLAND TEL.-MAINE	0.1230	0.1241	0.1295	0.1396	0.1557	0.1944	0.2024
NEW ENGLAND TEL.-MA	0.0977	0.1021	0.1078	0.1198	0.1395	0.1565	0.1593
NEW ENGLAND TEL.-NH	0.1090	0.1883	0.1992	0.2149	0.2309	0.2654	0.2982
SOUTHERN NEW ENGLAND TEL.	0.1423	0.1455	0.1475	0.1534	0.1640	0.1936	0.1931
NEW ENGLAND TEL.-VERMONT	0.2110	0.2132	0.2177	0.1553	0.2523	0.2692	0.3127
CONTEL-NEW YORK	0.2065	0.1158	0.1695	0.2286	0.1195	0.1398	0.1463
ROCHESTER	0.0000	0.0000	0.0000	0.0000	0.1023	0.1053	0.1173
NEW YORK TELEPHONE	0.1581	0.1632	0.1629	0.1764	0.1160	0.1439	0.1542
UNITED TEL.-NEW JERSEY	0.0000	0.1671	0.1697	0.1766	0.1798	0.1932	0.1960
NEW JERSEY BELL	0.1375	0.1385	0.1426	0.1484	0.1310	0.1950	0.1960
GTE NORTH-PA	0.0934	0.1008	0.1009	0.0960	0.1104	0.0954	0.1289
UNITED TEL.-PA	0.1145	0.1193	0.1061	0.1114	0.1169	0.1258	0.1357
BELL OF PENNSYLVANIA	0.0902	0.0919	0.0935	0.1002	0.1173	0.1399	0.1362
C&P OF MARYLAND	0.0905	0.0903	0.0877	0.0899	0.1004	0.1287	0.1442
CONTEL-VIRGINIA	0.0000	0.1486	0.1548	0.1574	0.1775	0.1804	0.1908
CENTEL-VIRGINIA	0.0000	0.1560	0.1743	0.1788	0.1811	0.2001	0.2116
GTE SOUTH-VIRGINIA	0.1266	0.1342	0.1296	0.1266	0.1437	0.1583	0.1551
UNITED INTER-MOUNTAIN-VA	0.0000	0.1220	0.1280	0.1266	0.1460	0.1627	0.1712
C&P OF VIRGINIA	0.1000	0.1025	0.1012	0.1040	0.1166	0.1296	0.1322
GTE SOUTH-WEST VIRGINIA	0.1661	0.1733	0.1656	0.1662	0.1864	0.2079	0.2162
C&P OF WEST VIRGINIA	0.1054	0.1062	0.1060	0.1099	0.1159	0.1305	0.1371
GTE OF FLORIDA	0.1345	0.1453	0.1492	0.1454	0.1541	0.1646	0.1755
CENTEL OF FLORIDA	0.1652	0.1797	0.2130	0.2029	0.1911	0.2139	0.2249
UNITED TEL.-FLORIDA	0.0000	0.1669	0.1750	0.1762	0.1652	0.1833	0.1935
SOUTHERN BELL-FLORIDA	0.1134	0.1175	0.1195	0.1230	0.1332	0.1420	0.1528
GTE SOUTH-GEORGIA	0.1033	0.1048	0.1018	0.1043	0.1265	0.1331	0.1344
SOUTHERN BELL-GEORGIA	0.1024	0.1037	0.1074	0.1050	0.1122	0.1241	0.1330
CAROLINA TELEPHONE & TELEGRAPH	0.1040	0.1068	0.1096	0.1170	0.1260	0.1438	0.1560
CENTEL-NORTH CAROLINA	0.0000	0.1009	0.1107	0.1132	0.1507	0.1287	0.1406
GTE SOUTH-NORTH CAROLINA	0.1105	0.1195	0.1220	0.1337	0.1236	0.1798	0.1896
SOUTHERN BELL-NORTH CAROLINA	0.0959	0.1027	0.1038	0.1083	0.1126	0.1196	0.1268
GTE SOUTH-SOUTH CAROLINA	0.1532	0.1588	0.1633	0.1728	0.1639	0.2105	0.2127
UNITED OF THE CAROLINAS	0.0000	0.1389	0.1517	0.1553	0.1761	0.1710	0.1664
SOUTHERN BELL-SOUTH CAROLINA	0.0866	0.0938	0.0959	0.1022	0.1042	0.1114	0.1314
GTE SOUTH-ALABAMA	0.1443	0.1478	0.1443	0.1501	0.1678	0.1899	0.1914
SOUTH CENTRAL BELL-ALABAMA	0.0836	0.0853	0.0849	0.0855	0.0959	0.1153	0.1175
GTE SOUTH-KENTUCKY	0.1160	0.1181	0.1191	0.1147	0.1208	0.1690	0.1654
CINCINNATI BELL-KENTUCKY	0.0594	0.0596	0.0659	0.0777	0.0827	0.1054	0.1074
SOUTH CENTRAL BELL-KENTUCKY	0.0955	0.0965	0.0946	0.0950	0.1043	0.1172	0.1301
SOUTH CENTRAL BELL-LOUISIANA	0.0778	0.0794	0.0789	0.0814	0.0927	0.1100	0.1090
SOUTH CENTRAL BELL-MISSISSIPPI	0.1090	0.1137	0.1127	0.1163	0.1248	0.1433	0.1534
GTE SOUTH-TENNESSEE	0.0984	0.1135	0.1339	0.1399	0.1424	0.1871	0.1678
UNITED INTER-MOUNTAIN-TN	0.0000	0.1067	0.1132	0.1169	0.1243	0.1352	0.1346
SOUTH CENTRAL BELL-TENNESSEE	0.0813	0.0869	0.0926	0.0984	0.1158	0.1296	0.1296
GTE NORTH-OHIO	0.1032	0.1051	0.1030	0.1030	0.1087	0.1164	0.1251
CENTEL-OHIO	0.0000	0.0759	0.0832	0.0817	0.1010	0.1129	0.1218
UNITED TEL.-OHIO	0.0952	0.0983	0.1000	0.1053	0.1208	0.1364	0.1342
CINCINNATI BELL-OHIO	0.0660	0.0706	0.0777	0.0814	0.0823	0.1261	0.1291
OHIO BELL	0.0799	0.0834	0.0859	0.0872	0.0720	0.1019	0.1161
GTE NORTH-MICHIGAN	0.0852	0.0882	0.0882	0.0933	0.1043	0.1106	0.1196
MICHIGAN BELL	0.0676	0.0684	0.0688	0.0718	0.3553	0.0985	0.0990
GTE NORTH-INDIANA	0.1277	0.1373	0.1357	0.1354	0.1424	0.1588	0.1689
UNITED TEL.-INDIANA	0.1376	0.1506	0.1518	0.1622	0.1535	0.1616	0.1620

TABLE 4.23

WEIGHTED DEM FACTORS,  
BY COMPANY

carrier	1980	1981	1982	1983	1984	1985	1986
INDIANA BELL	0.0978	0.1022	0.1035	0.1068	0.1101	0.1340	0.1265
GTE NORTH-WISCONSIN	0.1277	0.1298	0.1287	0.1327	0.1418	0.1488	0.1532
WISCONSIN BELL	0.0833	0.0906	0.0942	0.1004	0.1129	0.1262	0.1216
CENTEL-ILLINOIS	0.0000	0.1166	0.1102	0.1230	0.1309	0.1445	0.1727
GTE NORTH-ILLINOIS	0.1130	0.1210	0.1239	0.1243	0.1211	0.1074	0.1333
ILLINOIS BELL	0.1034	0.1036	0.1011	0.1067	0.1049	0.1285	0.1256
GTE NORTH-IOWA	0.1232	0.1365	0.1365	0.1404	0.1434	0.1128	0.1633
UNITED TEL.-IOWA	0.0000	0.1234	0.1378	0.1287	0.1515	0.1791	0.1899
US WEST-IOWA	0.0846	0.0902	0.1007	0.1031	0.1267	0.1998	0.1847
GTE NORTH-MN	0.1413	0.1513	0.1538	0.1652	0.1717	0.1613	0.1814
CENTEL-MN	0.1044	0.1053	0.1041	0.1013	0.1159	0.1216	0.1326
UNITED TEL.-MINNESOTA	0.0000	0.0815	0.0815	0.0813	0.0855	0.1003	0.1090
US WEST-MINNESOTA	0.0746	0.0795	0.0728	0.0835	0.0893	0.1449	0.1440
GTE NORTH-NEBRASKA	0.1140	0.1186	0.1178	0.1214	0.1304	0.1488	0.1666
LINCOLN TEL. & TEL.	0.1230	0.1260	0.1192	0.1077	0.1252	0.1286	0.1452
UNITED TEL.-NEBRASKA	0.0000	0.1901	0.2062	0.2044	0.2040	0.2280	0.2327
US WEST-NEBRASKA	0.0133	0.1175	0.1165	0.1199	0.1330	0.1900	0.1925
US WEST-NORTH DAKOTA	0.0916	0.0991	0.0911	0.1024	0.1116	0.1909	0.1940
US WEST-SOUTH DAKOTA	0.1022	0.1106	0.1137	0.1222	0.1350	0.2121	0.2244
UNITED TEL.-ARKANSAS	0.1742	0.0000	0.1927	0.1969	0.1965	0.2196	0.2484
GTE SOUTHWEST-ARKANSAS	0.1453	0.1472	0.1444	0.1439	0.1414	0.1646	0.1802
SWB-ARKANSAS	0.1241	9.9999	0.1214	0.1221	0.1349	0.1583	0.1633
UNITED TEL.-KANSAS	0.0000	0.0000	0.1935	0.2013	0.2040	0.2161	0.2356
SWB-KANSAS	0.1114	9.9999	0.1168	0.1221	0.1381	0.1534	0.1619
GTE NORTH-MISSOURI	0.1330	0.1359	0.1350	0.1457	0.1543	0.1690	0.1869
UNITED TEL.-MO	0.1469	0.1515	0.1584	0.1673	0.1537	0.2025	0.2104
SWB-MISSOURI	9.5781	0.0972	0.0977	0.1038	0.1164	0.1410	0.1418
GTE SOUTHWEST-OKLAHOMA	0.1460	0.1472	0.1445	0.1417	0.1408	0.1546	0.1685
SWB-OKLAHOMA	0.1089	0.1188	0.0910	0.1147	0.1318	0.1481	0.1479
GTE SOUTHWEST-TEXAS	0.0943	0.0943	0.0910	0.0895	0.0942	0.1014	0.1162
UNITED TEL.-TEXAS	0.0000	0.0000	0.0759	0.0694	0.0829	0.0906	0.0904
CENTEL-TEXAS	0.1370	0.1112	0.1087	0.1145	0.1285	0.1560	0.1774
CONTEL-TEXAS	0.0885	0.0925	0.0943	0.0896	0.0964	0.1194	0.1153
SWB-TEXAS	0.0719	0.0762	0.0789	0.0798	0.0896	0.1080	0.1058
US WEST-ARIZONA	0.1158	0.1161	0.1208	0.1246	0.1424	0.1765	0.1800
US WEST-COLORADO	0.1113	0.1192	0.1217	0.1305	0.1478	0.1849	0.1975
GTE NORTHWEST-IDAHO	0.2597	0.2721	0.2696	0.2698	0.2903	0.3075	0.3124
US WEST-IDAHO	0.1012	0.1049	0.1069	0.1170	0.1383	0.2082	0.2131
US WEST-IDAHO-PNB	0.1097	0.1121	0.1115	0.1167	0.1282	0.1896	0.2026
GTE NORTHWEST-MONTANA	0.2247	0.2330	0.2376	0.2218	0.2436	0.2631	0.2689
US WEST-MONTANA	0.1119	0.1248	0.1252	0.1243	0.1369	0.2185	0.2150
GTE SOUTHWEST-NEW MEXICO	0.2068	0.2135	0.2169	0.2230	0.2290	0.2290	0.2129
US WEST-NEW MEXICO	0.0949	0.1031	0.1097	0.1126	0.1258	0.1849	0.1900
US WEST-UTAH	0.0820	0.0908	0.0913	0.1437	0.1146	0.1633	0.1619
UNITED TEL.-WYOMING	0.0000	0.2838	0.2773	0.2689	0.2778	0.3152	0.3432
US WEST-WYOMING	0.1391	0.1726	0.1768	0.1816	0.2011	0.2774	0.2840
UNITED TEL.-NW-WA	0.1548	0.1564	0.1565	0.1620	0.1804	0.1811	0.1908
GTE NORTHWEST-WASHINGTON	0.1086	0.1149	0.1140	0.1163	0.1199	0.1231	0.1249
US WEST-WASHINGTON	0.0787	0.0840	0.0886	0.0904	0.1043	0.1555	0.1453
UNITED TEL.-NW-OR	0.1655	0.1672	0.1685	0.1727	0.1876	0.1908	0.2088
GTE NORTHWEST-OREGON	0.1356	0.1361	0.1327	0.1328	0.1349	0.1367	0.1587
US WEST-OREGON	0.0878	0.0942	0.0973	0.0944	0.0364	0.2063	0.1774
CONTEL-CALIFORNIA	0.0926	0.0915	0.0954	0.1010	0.1035	0.1144	0.1174

TABLE 4.23  
WEIGHTED DEM FACTORS,  
BY COMPANY

carrier	1980	1981	1982	1983	1984	1985	1986
GTE OF CALIFORNIA	0.0735	0.0751	0.0728	0.0722	0.0625	0.0840	0.0939
GTE NORTHWEST-CALIFORNIA	0.1775	0.1768	0.1714	0.1716	0.1796	0.1815	0.1762
PACIFIC BELL	0.0742	0.0745	0.0758	0.0821	0.0985	0.1088	0.1078
CENTEL-NV	0.2413	0.2504	1.2000	1.2000	1.3000	1.3000	0.3807
NEVADA BELL	0.2317	0.2382	0.2324	0.2466	0.2639	0.2486	0.2481
DIAMOND STATE TELEPHONE	0.1634	0.1696	0.1682	0.1697	0.1940	0.2221	0.2333
C&P OF WASHINGTON D.C.	0.1153	0.1182	0.1217	0.1348	0.1723	0.2278	0.2338
NEW ENGLAND TEL.-RHODE ISLAND	0.1157	0.1220	0.1278	0.1384	0.1592	0.1850	0.1984
GTE HAWAIIAN TELCO	0.0000	0.0000	0.0958	0.1041	0.1058	0.1163	0.1380
PUERTO RICO TELEPHONE CO.	0.0000	0.0000	0.0000	0.0000	0.0703	0.0784	0.1103
ALL OTHER COST COMPANIES	0.0000	0.0000	0.0000	0.0000	0.1395	0.1393	0.1482

## 5. Rates and Revenues

This section contains a variety of information on telephone price indexes and rate levels. First, it describes and presents a series of price indexes maintained by the Bureau of Labor Statistics. Second, it discusses rate levels and changes in average rate levels. Third, it summarizes rate cases pending before state regulatory commissions. These cases are an important indicator of future local rate changes. We also discuss other sources of information now being developed but not available for inclusion in the report at this time.

### CHANGES IN THE PRICE OF TELEPHONE SERVICES:

The Bureau of Labor Statistics (BLS) collects a variety of information on telephone service as part of three separate programs -- the Consumer Price Index (CPI), the Producer Price Index (PPI), and the Consumer Expenditure Survey. The monthly price indexes represent prices sampled in the middle of the month.

#### A. Long Term Trends in the Overall Price of Telephone Service:

A price index for telephone services was first published in 1935. Since that time, telephone prices have tended to increase at a slower pace than most other prices. Table 5.1 shows long run changes in the Consumer Price Indexes for all items, all services, telephone services, each of the seven major categories that currently constitute the overall CPI, and several services that are often characterized as public utilities. The price of telephone service has increased less rapidly than almost any other category when viewed over a long period of time. 1

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1 For a description of the methodologies used by the BLS in calculating price indexes, see Primer and Sourcebook on Telephone Price Indexes and Rate Levels, published by the FCC in April 1987. In early 1987, the Bureau of Labor Statistics revised its telephone-related PPI indexes and published revised index numbers for the period back to January 1984. The BLS has also made revisions to the CPI telephone service sample. The PPI and CPI revisions are described in Local Rates Update, published by the FCC in September 1987 and Telephone Rates Update, published by the FCC in December 1987. In January 1988, the BLS published revised CPI indexes which, in most cases, have an average value of 100 for the period 1982 through 1984.

Table 5.1  
Annual Rate of Change For Various Price Indexes\*

	1937 to 1987	1977 to 1987
CPI all goods and services	4.2%	6.5%
CPI all services	4.7	8.0
CPI telephone service	2.4	4.5
CPI major categories		
- food & beverages	**	5.9
- housing	**	7.1
- apparel & upkeep	3.3	3.5
- transportation	4.0	6.0
- medical care	5.2	8.6
- entertainment	**	5.4
- other goods & services	**	7.8
CPI public transportation	5.3	9.2
CPI piped gas	4.1	8.2
CPI electricity	2.6	6.9
CPI sewer & water maintenance	**	7.8

\* Exponential rates calculated using "year average" index values the first and last years of each comparison period.

\*\* Series not established until after 1937.

B. Recent Annual Changes in the Overall Price of Telephone Service:

The CPI index of telephone services is based on a "market basket" intended to represent the telephone-related expenditures of a typical urban household. It includes both local and long distance services. Changes in telephone prices tend to lag behind other price changes. Overall inflation in the American economy peaked in 1979 and 1980. In contrast, the price of telephone services rose most rapidly during the years 1981 through 1984, with the rate of increase declining in 1985 and again in 1986. The cost of telephone service fell slightly in 1987. In Table 5.2, the annual rate of change is shown for the overall CPI and the CPI for telephone services for each of the last ten years.

Table 5.2  
Annual Rate of Change in Price Indexes

	CPI: All goods & Services	CPI: Telephone Services
1978*	9.0%	0.9%
1979*	13.3	0.7
1980*	12.5	4.6
1981*	8.9	11.7
1982*	3.8	7.2
1983*	3.8	3.6
1984*	3.9	9.2
1985*	3.8	4.7
1986*	1.1	2.7
1987*	4.4	-1.3
Year-to-date 1988**	1.5	0.8
12 months ending April ***	3.9	-0.1

\* Measured from December to December.

\*\* Measured from December 1987 to April 1988. This represents the percentage change occurring during these four months rather than an annual rate of change.

\*\*\* Measured from April 1987 to April 1988.



C. Price Indexes for Local Service:

The Bureau of Labor Statistics publishes a number of price indexes related to local telephone service, two of which are important to the monitoring program. The CPI index of local telephone charges is based on a broadly defined "market basket" of local services that includes monthly service charges, message unit charges, equipment, installation, additional services (such as Touch-Tone and Call Waiting), taxes, subscriber line charges, and all other consumer expenditures associated with local telephone services except long distance charges. In contrast, the PPI index of monthly residential rates is much more narrowly defined. It is based only on monthly service charges for residential service, optional Touch-Tone service, and subscriber line charges. It excludes taxes and all other telephone service charges. The annual rates of change for these two indexes are presented in Table 5.3. In the CPI index, about half of the 1984 increase occurred during January, reflecting adjustments made at the time of AT&T's divestiture of its operating companies. In January 1987, The PPI index was revised to include subscriber line charges. Revised index numbers for 1985 and 1986 were issued based on the new methodology.

Table 5.3  
Annual Rate of Change in Price Indexes  
For Local Telephone Service

	CPI: All Local Charges	PPI: Monthly Service Charges For Residential Service
1978*	1.4%	3.1%
1979*	1.7	1.6
1980*	7.0	7.1
1981*	12.6	15.6
1982*	10.8	9.0
1983*	3.1	0.2
1984*	17.2	10.4
1985*	8.9	12.4
1986*	7.1	8.9
1987*	3.3	2.6
Year-to-date 1988 **	2.2	-.4
12 months ending April***	2.7	2.8

\* Measured from December to December.

\*\* Measured from December 1987 to April 1988. This represents the percentage change occurring during these four months rather than an annual rate of change.

\*\*\* Measured from April 1987 to April 1988.

D. Price Indexes for Long Distance Service:

CPI data are available for intrastate toll and interstate toll services since December 1977. Table 5.4 presents the annual changes in these series for recent years. The high inflation of the late 1970's is reflected in the long distance price increases beginning in 1980. Interstate toll rates have steadily fallen since 1983, and intrastate toll rates have stabilized since that time.

Table 5.4  
Annual Rate of Change in Price Indexes  
For Long Distance Service

	CPI: Interstate Toll calls	CPI: Intrastate Toll calls
1978*	-0.8%	1.3%
1979*	-0.7	0.1
1980*	3.4	-0.6
1981*	14.6	6.2
1982*	2.6	4.2
1983*	1.5	7.4
1984*	-4.3	3.6
1985*	-3.7	0.6
1986*	-9.4	0.3
1987*	-12.4	-3.0
Year-to-date 1988**	-2.6	-0.7
12 Months ending April ***	-6.4	-3.2

\* Measured from December to December.

\*\* Measured from December 1987 to April 1988. This represents the percentage change occurring during these four months rather than an annual rate of change.

\*\*\* Measured from April 1987 to April 1988.

E. Quarterly and Monthly Price Index Data:

The Bureau of Labor Statistics has now released price index data covering the period through April 1988. The BLS has rebased its price indexes, meaning that the nominal index values have changed since the previous monitoring report. Due to rounding differences, the percentage changes over some periods may vary by a tenth of a percent. Some PPI index values have been revised due to corrections. Table 5.5 shows quarterly changes for selected CPI and PPI indexes based on currently published data. Monthly data for the CPI telephone indexes are shown in Table 5.6. Monthly data for four PPI indexes (local residential service, local business service, intrastate toll and interstate toll) are shown in Table 5.7.

Table 5.5

Quarterly Changes of  
Selected Indexes

	1986		Q3	Q4	1987		Q3	Q4	1988
	Q1	Q2			Q1	Q2			Q1
CPI all items	-0.5%	0.6%	0.6%	0.3%	1.4%	1.2%	1.3%	0.3%	1.0%
CPI telephone service	1.1	2.9	-0.3	-0.9	-0.7	-0.7	0.9	-0.8	0.4
CPI local service	1.4	6.6	0.7	-1.5	2.2	0.1	2.5	-1.4	1.6
CPI interstate toll	0.0	-5.7	-4.1	0.1	-8.8	-0.5	-3.9	0.4	-2.7
CPI intrastate toll	0.6	-0.4	-0.2	0.3	-0.4	-3.5	0.8	0.1	-0.4
PPI local residence	0.9	7.8	0.4	-0.3	-0.1	-0.5	3.2	0.0	-0.4
PPI local business	1.4	1.2	0.3	-0.4	0.2	-0.3	-0.7	0.0	-0.5
PPI intrastate MTS	0.1	-4.0	0.1	0.3	-0.4	-0.8	-1.9	0.5	-0.9
PPI interstate MTS	0.0	-10.0	-0.1	0.0	-10.5	0.0	-3.3	0.0	-2.7
PPI International MTS	-2.7	-0.1	0.0	0.0	-0.1	0.0	0.0	-0.2	0.0

Table 5.6  
U.S. Department of Labor  
Bureau of Labor Statistics  
Washington, D.C. 20212

Consumer Price Index

All Urban Consumers - (CPI-U)

U.S. city average

All items

1982-84=100

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVG.
1913	9.8	9.8	9.8	9.8	9.7	9.8	9.9	9.9	10.0	10.0	10.1	10.0	9.9
1914	10.0	9.9	9.9	9.8	9.9	9.9	10.0	10.2	10.2	10.1	10.2	10.1	10.0
1915	10.1	10.0	9.9	10.0	10.1	10.1	10.1	10.1	10.1	10.2	10.3	10.3	10.1
1916	10.4	10.4	10.5	10.6	10.7	10.8	10.8	10.9	11.1	11.3	11.5	11.6	10.9
1917	11.7	12.0	12.0	12.6	12.8	13.0	12.8	13.0	13.3	13.5	13.5	13.7	12.8
1918	14.0	14.1	14.0	14.2	14.5	14.7	15.1	15.4	15.7	16.0	16.3	16.5	15.1
1919	16.5	16.2	16.4	16.7	16.9	16.9	17.4	17.7	17.8	18.1	18.5	18.9	17.3
1920	19.3	19.5	19.7	20.3	20.6	20.9	20.8	20.3	20.0	19.9	19.8	19.4	20.0
1921	19.0	18.4	18.3	18.1	17.7	17.6	17.7	17.7	17.5	17.5	17.4	17.3	17.9
1922	16.9	16.9	16.7	16.7	16.7	16.7	16.8	16.6	16.6	16.7	16.8	16.9	16.8
1923	16.8	16.8	16.8	16.9	16.9	17.0	17.2	17.1	17.2	17.3	17.3	17.3	17.1
1924	17.3	17.2	17.1	17.0	17.0	17.0	17.1	17.0	17.1	17.2	17.2	17.3	17.1
1925	17.3	17.2	17.3	17.2	17.3	17.5	17.7	17.7	17.7	17.7	18.0	17.9	17.5
1926	17.9	17.9	17.8	17.9	17.8	17.7	17.5	17.4	17.5	17.6	17.7	17.7	17.7
1927	17.5	17.4	17.3	17.3	17.4	17.6	17.3	17.2	17.3	17.4	17.3	17.3	17.4
1928	17.3	17.1	17.1	17.1	17.2	17.1	17.1	17.1	17.3	17.2	17.2	17.1	17.1
1929	17.1	17.1	17.0	16.9	17.0	17.1	17.3	17.3	17.3	17.3	17.3	17.2	17.1
1930	17.1	17.0	16.9	17.0	16.9	16.8	16.6	16.5	16.6	16.5	16.4	16.1	16.7
1931	15.9	15.7	15.6	15.5	15.3	15.1	15.1	15.1	15.0	14.9	14.7	14.6	15.2
1932	14.3	14.1	14.0	13.9	13.7	13.6	13.6	13.5	13.4	13.3	13.2	13.1	13.7
1933	12.9	12.7	12.6	12.6	12.6	12.7	13.1	13.2	13.2	13.2	13.2	13.2	13.0
1934	13.2	13.3	13.3	13.3	13.3	13.4	13.4	13.4	13.6	13.5	13.5	13.4	13.4
1935	13.6	13.7	13.7	13.8	13.8	13.7	13.7	13.7	13.7	13.7	13.8	13.8	13.7
1936	13.8	13.8	13.7	13.7	13.7	13.8	13.9	14.0	14.0	14.0	14.0	14.0	13.9
1937	14.1	14.1	14.2	14.3	14.4	14.4	14.5	14.5	14.6	14.6	14.5	14.4	14.4
1938	14.2	14.1	14.1	14.2	14.1	14.1	14.1	14.1	14.1	14.0	14.0	14.0	14.1
1939	14.0	13.9	13.9	13.8	13.8	13.8	13.8	13.8	14.1	14.0	14.0	14.0	13.9
1940	13.9	14.0	14.0	14.0	14.0	14.1	14.0	14.0	14.0	14.0	14.0	14.1	14.0
1941	14.1	14.1	14.2	14.3	14.4	14.7	14.7	14.9	15.1	15.3	15.4	15.5	14.7
1942	15.7	15.8	16.0	16.1	16.3	16.3	16.4	16.5	16.5	16.7	16.8	16.9	16.3

U.S. Department of Labor  
Bureau of Labor Statistics  
Washington, D.C. 20212

## Consumer Price Index

## All Urban Consumers - (CPI-U)

## U.S. city average

## All items

1982-84=100

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVG.
1943	16.9	16.9	17.2	17.4	17.5	17.5	17.4	17.3	17.4	17.4	17.4	17.4	17.3
1944	17.4	17.4	17.4	17.5	17.5	17.6	17.7	17.7	17.7	17.7	17.7	17.8	17.6
1945	17.8	17.8	17.8	17.8	17.9	18.1	18.1	18.1	18.1	18.1	18.1	18.2	18.0
1946	18.2	18.1	18.3	18.4	18.5	18.7	19.8	20.2	20.4	20.8	21.3	21.5	19.5
1947	21.5	21.5	21.9	21.9	21.9	22.0	22.2	22.5	23.0	23.0	23.1	23.4	22.3
1948	23.7	23.5	23.4	23.8	23.9	24.1	24.4	24.5	24.5	24.4	24.2	24.1	24.1
1949	24.0	23.8	23.8	23.9	23.8	23.9	23.7	23.8	23.9	23.7	23.8	23.6	23.8
1950	23.5	23.5	23.6	23.6	23.7	23.8	24.1	24.3	24.4	24.6	24.7	25.0	24.1
1951	25.4	25.7	25.8	25.8	25.9	25.9	25.9	25.9	26.1	26.2	26.4	26.5	26.0
1952	26.5	26.3	26.3	26.4	26.4	26.5	26.7	26.7	26.7	26.7	26.7	26.7	26.5
1953	26.6	26.5	26.6	26.6	26.7	26.8	26.8	26.9	26.9	27.0	26.9	26.9	26.7
1954	26.9	26.9	26.9	26.8	26.9	26.9	26.9	26.9	26.8	26.8	26.8	26.7	26.9
1955	26.7	26.7	26.7	26.7	26.7	26.7	26.8	26.8	26.9	26.9	26.9	26.8	26.8
1956	26.8	26.8	26.8	26.9	27.0	27.2	27.4	27.3	27.4	27.5	27.5	27.6	27.2
1957	27.6	27.7	27.8	27.9	28.0	28.1	28.3	28.3	28.3	28.3	28.4	28.4	28.1
1958	28.6	28.6	28.8	28.9	28.9	28.9	29.0	28.9	28.9	28.9	29.0	28.9	28.9
1959	29.0	28.9	28.9	29.0	29.0	29.1	29.2	29.2	29.3	29.4	29.4	29.4	29.1
1960	29.3	29.4	29.4	29.5	29.5	29.6	29.6	29.6	29.6	29.8	29.8	29.8	29.6
1961	29.8	29.8	29.8	29.8	29.8	29.8	30.0	29.9	30.0	30.0	30.0	30.0	29.9
1962	30.0	30.1	30.1	30.2	30.2	30.2	30.3	30.3	30.4	30.4	30.4	30.4	30.2
1963	30.4	30.4	30.5	30.5	30.5	30.6	30.7	30.7	30.7	30.8	30.8	30.9	30.6
1964	30.9	30.9	30.9	30.9	30.9	31.0	31.1	31.0	31.1	31.1	31.2	31.2	31.0
1965	31.2	31.2	31.3	31.4	31.4	31.6	31.6	31.6	31.6	31.7	31.7	31.8	31.5
1966	31.8	32.0	32.1	32.3	32.3	32.4	32.5	32.7	32.7	32.9	32.9	32.9	32.4
1967	32.9	32.9	33.0	33.1	33.2	33.3	33.4	33.5	33.6	33.7	33.8	33.9	33.4
1968	34.1	34.2	34.3	34.4	34.5	34.7	34.9	35.0	35.1	35.3	35.4	35.5	34.8
1969	35.6	35.8	36.1	36.3	36.4	36.6	36.8	37.0	37.1	37.3	37.5	37.7	36.7
1970	37.8	38.0	38.2	38.5	38.6	38.8	39.0	39.0	39.2	39.4	39.6	39.8	38.8
1971	39.8	39.9	40.0	40.1	40.3	40.6	40.7	40.8	40.8	40.9	40.9	41.1	40.5
1972	41.1	41.3	41.4	41.5	41.6	41.7	41.9	42.0	42.1	42.3	42.4	42.5	41.8
1973	42.6	42.9	43.3	43.6	43.9	44.2	44.3	45.1	45.2	45.6	45.9	46.2	44.4

U.S. Department of Labor  
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## Consumer Price Index

## All Urban Consumers - (CPI-U)

## U.S. city average

## All items

1982-84=100

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVG.
1974	46.6	47.2	47.8	48.0	48.6	49.0	49.4	50.0	50.6	51.1	51.5	51.9	49.3
1975	52.1	52.5	52.7	52.9	53.2	53.6	54.2	54.3	54.6	54.9	55.3	55.5	53.8
1976	55.6	55.8	55.9	56.1	56.5	56.8	57.1	57.4	57.6	57.9	58.0	58.2	56.9
1977	58.5	59.1	59.5	60.0	60.3	60.7	61.0	61.2	61.4	61.6	61.9	62.1	60.6
1978	62.5	62.9	63.4	63.9	64.5	65.2	65.7	66.0	66.5	67.1	67.4	67.7	65.2
1979	68.3	69.1	69.8	70.6	71.5	72.3	73.1	73.8	74.6	75.2	75.9	76.7	72.6
1980	77.8	78.9	80.1	81.0	81.8	82.7	82.7	83.3	84.0	84.8	85.5	86.3	82.4
1981	87.0	87.9	88.5	89.1	89.8	90.6	91.6	92.3	93.2	93.4	93.7	94.0	90.9
1982	94.3	94.6	94.5	94.9	95.8	97.0	97.5	97.7	97.9	98.2	98.0	97.6	96.5
1983	97.8	97.9	97.9	98.6	99.2	99.5	99.9	100.2	100.7	101.0	101.2	101.3	99.6
1984	101.9	102.4	102.6	103.1	103.4	103.7	104.1	104.5	105.0	105.3	105.3	105.3	103.9
1985	105.5	106.0	106.4	106.9	107.3	107.6	107.8	108.0	108.3	108.7	109.0	109.3	107.6
1986	109.6	109.3	108.8	108.6	108.9	109.5	109.5	109.7	110.2	110.3	110.4	110.5	109.6
1987	111.2	111.6	112.1	112.7	113.1	113.5	113.8	114.4	115.0	115.3	115.4	115.4	113.6
1988	115.7	116.0	116.5	117.1									

U.S. Department of Labor  
Bureau of Labor Statistics  
Washington, D.C. 20212

## Consumer Price Index

## All Urban Consumers - (CPI-U)

## U.S. city average

## Telephone services

1982-84=100

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVG.
1935													36.8
1936													36.6
1937													36.1
1938													36.1
1939													36.1
1940													36.1
1941													36.3
1942													38.3
1943													39.5
1944													40.7
1945													41.3
1946													41.3
1947			41.4			41.5			42.8			42.8	42.0
1948			43.7			43.9			44.6			44.9	44.1
1949			44.9			45.0			46.7			48.8	46.0
1950			48.9			49.2			50.0			50.6	49.5
1951			50.5			50.6			50.6			51.1	50.6
1952			52.4			52.4			52.6			53.1	52.5
1953			53.3			54.3			55.3			55.3	54.3
1954			55.3			52.6			52.6			52.7	53.4
1955			52.7			52.7			53.0			53.0	52.9
1956			53.2			53.2			53.9			54.3	53.5
1957			54.3			54.3			54.5			55.5	54.5
1958			55.9			56.1			56.3			56.3	56.1
1959			57.3			57.4			57.7			57.7	57.4
1960			58.1			58.1			58.8			58.5	58.3
1961			58.5			58.5			58.5			58.5	58.5
1962			58.5			58.5			58.5			58.5	58.5
1963			58.5			58.6			58.6			58.6	58.6
1964						58.6						58.5	58.6

U.S. Department of Labor  
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## Consumer Price Index

## All Urban Consumers - (CPI-U)

## U.S. city average

## Telephone services

1982-84=100

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVG.
1965						57.7						57.5	57.7
1966			53.8			57.4			57.4			57.4	56.5
1967			57.3			57.3			57.4			56.7	57.3
1968			56.9			57.3			57.4			57.7	57.3
1969	57.7	57.8	57.8	57.9	57.9	58.1	58.1	58.1	58.1	58.1	58.1	58.2	58.0
1970	57.7	57.5	58.2	58.6	58.7	58.7	58.9	58.9	59.0	59.1	59.6	59.6	58.7
1971	60.0	60.6	60.6	60.8	60.8	60.9	62.4	62.5	62.5	62.5	62.5	62.7	61.6
1972	63.3	64.4	64.4	64.5	64.6	65.1	65.2	65.3	65.6	65.8	65.8	65.9	65.0
1973	65.6	65.9	66.0	66.1	66.2	66.4	66.4	67.0	67.1	67.3	67.3	69.0	66.7
1974	69.2	69.3	69.3	69.3	69.3	69.3	69.4	69.4	69.9	69.9	69.9	69.9	69.5
1975	69.7	70.1	70.7	70.9	71.2	71.7	71.9	72.2	72.4	72.6	73.6	73.8	71.7
1976	73.3	73.4	73.8	73.8	73.9	74.0	74.0	75.0	74.9	75.0	75.3	75.3	74.3
1977	74.7	74.7	74.8	75.0	75.0	75.1	75.1	75.2	75.4	75.5	75.6	75.7	75.2
1978	75.6	75.8	75.8	76.0	76.0	76.0	76.1	76.3	76.3	76.2	76.2	76.3	76.0
1979	75.9	75.7	75.6	75.6	75.7	75.6	75.6	75.9	75.8	75.1	76.3	76.9	75.8
1980	76.4	76.0	76.3	76.4	76.7	77.6	78.0	78.2	78.4	78.7	79.4	80.3	77.7
1981	80.8	81.5	81.6	82.1	82.5	82.2	84.3	85.4	87.3	88.4	89.1	89.8	84.6
1982	90.0	90.4	90.8	92.1	92.5	93.5	93.8	94.0	94.8	95.2	95.4	96.3	93.2
1983	98.1	98.3	98.5	98.4	98.9	99.3	99.5	99.6	99.9	99.7	100.4	99.8	99.2
1984	105.0	107.0	106.4	106.7	106.9	107.1	107.7	107.9	108.7	108.8	109.4	109.0	107.5
1985	109.3	108.3	109.5	109.4	109.6	112.1	112.9	113.6	113.7	113.8	114.2	114.1	111.7
1986	114.6	114.8	115.3	116.5	116.5	118.7	118.7	118.8	118.3	118.9	117.6	117.2	117.2
1987	116.6	116.4	116.4	116.7	116.4	115.6	116.7	117.1	116.6	117.0	116.9	115.7	116.5
1988	115.8	116.6	116.2	116.6									



U.S. Department of Labor  
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## Consumer Price Index

## All Urban Consumers - (CPI-U)

## U.S. city average

## Telephone, interstate toll calls

1982-84=100

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVG.
1977												83.4	
1978	82.9	82.7	82.8	82.6	82.6	82.7	82.7	82.7	82.7	82.7	82.8	82.8	82.7
1979	82.3	82.1	82.0	82.0	82.0	82.1	82.1	82.2	82.1	82.1	82.1	82.1	82.1
1980	81.5	81.2	81.2	81.2	81.2	83.0	84.8	85.0	85.2	85.2	84.8	84.9	83.3
1981	84.9	84.9	84.9	84.9	84.9	84.9	91.0	94.6	95.8	97.3	97.3	97.3	90.3
1982	97.4	97.3	98.2	100.0	100.1	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.4
1983	100.9	101.6	101.6	101.6	101.6	101.6	101.7	101.7	101.7	101.4	101.4	101.3	101.5
1984	101.3	102.1	102.1	102.0	102.3	98.9	96.9	96.8	96.8	97.0	96.9	96.9	99.2
1985	96.9	96.9	96.9	96.9	97.4	94.7	93.1	93.3	93.3	93.3	93.3	93.3	94.9
1986	93.3	93.3	93.3	93.3	93.3	88.0	84.7	84.4	84.4	84.4	84.4	84.5	88.4
1987	77.1	77.1	77.1	77.0	76.7	76.7	73.4	73.4	73.7	73.7	73.7	74.0	75.3
1988	72.2	72.2	72.0	72.1									

Table 5.6 (cont.)

U.S. Department of Labor  
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Washington, D.C. 20212

## Consumer Price Index

All Urban Consumers - (CPI-U)

U.S. city average

Telephone, local charges

1982-84=100

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVG.
1977													69.2
1978	69.2	69.8	69.7	70.0	69.9	69.9	70.1	70.4	70.5	70.1	70.2	70.2	70.0
1979	69.6	69.5	69.4	69.4	69.6	69.2	69.2	69.5	69.4	68.3	70.4	71.4	69.6
1980	71.0	71.0	71.4	71.6	72.1	72.8	72.9	72.9	73.3	73.7	74.9	76.4	72.8
1981	77.2	78.5	78.6	79.4	79.9	79.5	80.7	81.1	83.3	84.0	85.4	86.0	81.1
1982	85.8	86.7	86.9	88.5	89.2	90.7	91.2	91.6	92.9	93.5	93.6	95.3	90.5
1983	97.2	96.8	97.0	96.8	97.5	98.1	98.1	98.3	98.6	98.3	99.5	98.3	97.9
1984	106.7	110.0	109.1	109.1	109.5	110.7	112.3	112.9	114.3	114.5	115.4	115.2	111.6
1985	115.6	113.8	116.0	115.8	116.0	121.3	123.0	123.9	124.2	124.3	125.2	125.5	120.4
1986	126.2	126.4	127.2	129.5	129.5	135.6	137.0	137.2	136.5	137.5	135.1	134.4	132.7
1987	137.6	137.5	137.4	138.2	138.1	137.5	141.0	141.9	140.9	141.3	141.4	138.9	139.3
1988	139.9	141.6	141.1	142.0									

U.S. Department of Labor  
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## Consumer Price Index

## All Urban Consumers - (CPI-U)

## U.S. city average

## Telephone, intrastate toll calls

1982-84=100

YEAR	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEP.	OCT.	NOV.	DEC.	AVG.
1977												85.4	
1978	85.5	84.9	85.1	85.6	85.5	85.5	85.5	85.6	85.7	85.6	85.6	86.5	85.5
1979	86.1	86.0	86.0	86.0	86.0	86.4	86.5	86.6	86.6	86.8	86.6	86.6	86.4
1980	86.1	84.3	84.3	84.5	84.9	85.0	84.9	85.3	85.5	85.5	85.9	86.1	85.2
1981	86.2	86.4	86.4	86.6	86.8	86.6	86.6	86.9	88.7	90.1	89.9	91.4	87.8
1982	93.2	93.1	93.1	93.0	93.3	93.7	93.9	93.9	94.0	94.2	94.8	95.2	93.8
1983	97.3	98.9	99.3	99.5	100.0	100.2	100.9	101.0	101.2	101.6	102.3	102.2	100.4
1984	104.2	104.2	104.1	105.6	105.1	106.5	107.5	106.6	106.5	106.5	107.1	105.9	105.9
1985	105.9	105.8	106.1	106.0	105.8	106.2	107.5	107.8	107.8	108.0	107.9	106.5	106.8
1986	106.7	107.0	107.1	106.8	106.9	106.7	106.7	107.0	106.5	106.8	106.5	106.8	106.8
1987	107.0	106.4	106.4	106.3	105.2	102.7	104.0	103.8	103.5	104.1	103.6	103.6	104.7
1988	104.1	103.6	103.2	102.9									

Table 5.7

Price indexes for selected telephone services, January 1972-April 1988  
(1972 = 100)

4811-1 Local service

	Avg.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1972	100.0	98.1	99.1	99.1	99.7	100.6	100.8	100.8	99.6	100.5	100.5	100.5	100.5
1973	102.7	100.8	101.3	101.5	101.9	101.9	101.9	101.9	102.9	102.9	104.8	104.8	105.9
1974	108.4	107.4	107.7	107.7	107.7	107.7	107.7	107.7	109.2	109.2	109.6	109.6	109.6
1975	112.8	109.8	111.4	111.6	111.6	111.9	112.0	112.8	113.1	114.1	114.1	115.4	115.4
1976	118.4	117.0	117.7	117.7	117.9	118.3	118.9	118.8	118.9	118.9	118.9	119.1	119.1
1977	118.5	119.1	117.6	118.2	118.4	118.4	118.5	118.4	118.4	118.4	118.4	119.1	119.5
1978	121.9	120.2	120.9	120.9	120.9	120.9	120.9	120.9	122.0	123.7	123.7	123.7	124.3
1979	123.8	124.3	123.9	123.0	123.0	123.0	123.0	123.0	123.3	123.9	124.4	124.4	126.1
1980	127.5	125.3	125.4	125.4	126.0	126.2	126.2	126.2	126.2	127.2	130.4	132.5	133.0
1981	141.2	133.4	135.3	135.6	136.3	138.0	138.0	141.5	142.6	144.3	146.9	151.0	151.0
1982	154.6	149.5	149.5	149.5	151.2	152.3	153.3	153.3	153.7	158.8	160.4	160.9	162.3
1983	163.7	162.6	162.9	163.4	163.1	162.6	163.3	163.8	163.9	164.3	164.7	164.8	164.8
1984	179.5	171.2	171.2	171.2	171.9	172.1	177.9	182.2	185.7	187.6	187.7	187.5	187.6
1985	197.4	188.9	190.7	190.6	190.6	191.0	200.6	200.8	201.6	202.2	202.3	204.8	204.8
1986	212.7	206.5	206.7	206.7	206.7	206.7	216.6	216.6	216.9	217.5	217.5	216.8	216.8
1987	218.0	216.7	216.6	216.8	216.1	216.1	216.1	220.1	219.9	219.3	219.3	219.3	219.3
1988		219.0	218.4	218.4	218.4								

4811-111 Local service, residential

	Avg.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1972	100.0	97.7	98.9	98.9	99.5	100.7	100.9	100.9	99.7	100.7	100.7	100.7	100.7
1973	102.9	101.0	101.5	101.6	102.0	102.0	102.0	102.0	103.0	103.0	105.2	105.2	106.7
1974	108.8	108.1	108.3	108.3	108.3	108.3	108.3	108.3	109.4	109.3	109.7	109.7	109.7
1975	113.3	109.9	112.0	112.2	112.2	112.4	112.5	113.4	113.6	114.8	114.8	116.2	116.2
1976	118.9	118.0	118.0	118.0	118.2	118.6	119.2	119.2	119.3	119.3	119.3	119.6	119.6
1977	119.3	119.6	118.3	119.0	119.3	119.3	119.3	119.1	119.1	119.1	119.1	120.1	120.5
1978	122.1	120.2	121.0	121.0	121.0	121.0	121.0	121.0	122.2	124.2	124.2	124.2	124.2
1979	123.4	124.0	123.6	122.5	122.5	122.5	122.5	122.5	122.8	123.5	124.0	124.0	126.2
1980	128.0	125.3	125.3	125.4	125.9	126.3	126.3	126.3	126.3	127.4	131.6	134.5	135.1
1981	144.1	135.6	137.0	137.3	138.2	140.0	140.0	144.5	145.1	147.4	151.2	156.2	156.2
1982	160.6	154.9	154.9	154.9	156.7	157.3	158.4	158.4	159.0	165.8	167.8	168.4	170.2
1983	169.6	168.7	169.0	169.5	169.2	168.4	169.1	169.6	169.7	170.2	170.5	170.6	170.6
1984	182.4	177.8	177.8	177.7	177.7	178.1	178.6	181.4	186.0	188.7	188.7	188.3	188.4
1985	202.6	189.8	191.9	191.9	191.9	192.3	208.8	209.2	210.4	211.0	211.0	211.7	211.7
1986	223.6	213.4	213.6	213.6	213.6	213.6	230.3	230.3	230.8	231.3	231.3	230.5	230.5
1987	233.1	230.1	230.0	230.3	229.2	229.2	229.2	236.6	236.6	236.6	236.6	236.6	236.6
1988		236.4	235.7	235.7	235.7								



Table 5.7 (cont.)

## 4811-114 Local service, coin

	Avg.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1972	100.0	99.8	100.0	100.0	100.0	100.0	100.0	100.0	99.9	100.1	100.1	100.1	100.1
1973	101.2	100.1	100.1	100.1	100.1	100.1	100.1	100.1	101.5	101.5	103.4	103.4	103.7
1974	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.8	103.9	103.9	103.9	103.9	103.9
1975	104.3	103.9	103.9	103.9	103.9	103.9	103.9	103.9	103.9	104.6	104.9	105.2	105.2
1976	113.9	105.7	114.6	114.6	114.6	114.6	114.6	114.6	114.7	114.7	114.7	114.7	114.7
1977	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.7	114.8	114.9
1978	116.2	115.0	115.0	115.4	115.4	115.4	115.4	115.4	115.5	115.6	115.6	115.6	124.7
1979	124.3	124.7	124.5	124.2	124.2	124.2	124.2	124.2	124.2	124.2	124.3	124.3	124.5
1980	124.6	124.5	124.5	124.5	124.5	124.5	124.5	124.5	124.5	124.8	124.8	124.8	125.1
1981	128.2	125.1	125.3	125.9	126.0	129.1	129.1	129.1	129.3	129.5	130.0	130.0	130.0
1982	139.4	130.0	130.0	130.0	132.8	143.2	143.6	143.6	143.1	144.0	144.0	144.0	144.0
1983	162.6	161.0	161.0	161.0	160.9	161.8	162.9	163.2	163.2	163.4	164.3	164.5	164.5
1984	205.8	184.2	184.2	184.4	184.6	184.6	189.0	222.3	227.2	227.2	227.2	227.5	227.5
1985	230.6	228.2	228.9	228.9	228.9	230.4	230.7	230.8	231.2	231.2	231.3	233.8	233.8
1986	234.6	234.3	234.3	234.3	234.3	234.3	234.6	234.6	234.7	234.9	234.9	234.9	234.9
1987	234.7	235.0	234.9	234.9	234.9	234.9	234.9	234.9	234.6	234.5	234.5	234.5	234.5
1988		234.3	233.1	233.1	233.1								

## 4811-2 Toll service

	Avg.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1972	100.0	98.7	99.3	99.3	99.3	99.8	100.2	100.2	100.5	100.7	100.7	100.7	100.7
1973	102.9	100.7	102.4	102.5	102.5	102.5	102.5	102.5	103.4	103.4	103.8	103.8	104.3
1974	104.7	104.6	104.6	104.6	104.6	104.6	104.5	104.4	104.4	104.4	105.1	105.1	105.1
1975	111.6	105.4	105.4	111.6	111.6	111.6	111.6	112.3	113.1	113.1	113.5	114.7	114.8
1976	120.2	115.4	115.6	119.6	119.6	120.4	120.8	120.8	122.0	122.0	122.0	122.0	122.0
1977	123.5	123.3	123.1	123.1	123.2	123.2	123.3	123.1	123.1	124.2	124.3	124.3	124.3
1978	124.2	124.3	124.2	124.3	124.3	124.3	124.3	124.3	124.3	124.3	124.3	123.8	123.9
1979	123.2	123.3	123.2	123.2	123.3	123.2	123.1	123.1	123.1	123.1	123.4	123.3	123.3
1980	125.9	123.4	123.2	123.2	123.4	123.6	127.5	127.5	127.5	127.5	127.9	128.3	128.3
1981	134.8	129.1	129.0	129.0	129.0	128.7	128.7	139.2	139.2	141.0	141.3	141.3	142.1
1982	145.9	143.1	143.1	143.1	146.4	146.4	146.7	146.7	146.8	146.8	147.1	147.1	147.5
1983	149.3	148.8	148.8	149.0	148.9	149.0	149.3	149.4	149.4	149.4	149.8	149.8	149.8
1984	148.5	150.7	150.6	150.7	150.8	150.5	146.2	146.6	147.1	147.3	147.3	146.8	147.4
1985	147.2	147.6	147.7	147.7	148.1	149.9	146.3	146.3	146.6	146.5	146.5	146.7	146.2
1986	139.8	146.2	146.2	146.2	144.1	144.1	135.9	135.9	135.8	135.8	136.0	136.0	136.0
1987	127.0	129.0	128.7	128.7	128.6	128.3	128.2	125.6	125.6	125.2	125.2	125.4	125.4
1988		123.4	123.0	123.0	123.0								

Table 5.7 (cont.)

4811-211 Toll service, intrastate MTS		Avg.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1972		100.0	96.6	98.1	98.1	98.1	99.6	100.4	100.4	101.3	101.8	101.8	101.8	101.8
1973		103.3	101.9	102.1	102.1	102.1	102.1	102.1	102.1	104.2	104.2	105.4	105.4	106.3
1974		107.7	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	107.2	109.1	109.1	109.1
1975		113.8	109.8	109.8	111.6	111.6	111.6	111.6	113.5	115.4	115.4	116.4	119.3	119.3
1976		125.6	121.0	121.4	122.6	122.6	124.7	125.7	125.7	128.6	128.6	128.6	128.6	128.6
1977		131.9	132.2	131.5	131.5	131.8	131.8	132.0	132.0	132.0	132.0	132.0	132.0	132.0
1978		132.0	132.1	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.0	132.1
1979		131.6	132.1	131.9	131.9	131.9	131.9	131.5	131.5	131.5	131.5	131.5	131.2	131.2
1980		132.3	131.5	131.1	131.1	131.3	132.1	132.2	132.2	132.2	132.2	133.2	134.1	134.2
1981		137.3	136.0	136.0	136.0	136.0	135.1	135.1	135.1	135.1	139.5	140.4	140.4	142.4
1982		145.6	144.9	144.9	144.9	145.2	145.3	145.5	145.5	145.5	145.6	146.4	146.4	147.4
1983		152.1	151.1	151.1	151.7	151.5	151.5	152.2	152.2	152.3	152.3	153.2	153.2	153.2
1984		157.0	155.9	155.9	155.9	156.1	155.3	155.9	157.0	158.3	158.9	158.9	157.5	159.0
1985		162.0	159.8	159.8	159.8	161.0	162.6	162.8	162.8	163.4	163.2	163.2	163.7	162.4
1986		158.0	162.4	162.5	162.6	156.9	156.9	156.1	156.1	156.1	156.2	156.8	156.7	156.7
1987		154.1	156.7	156.0	156.0	155.8	155.0	154.8	153.0	153.0	151.9	151.9	152.6	152.6
1988			152.1	151.2	151.2	151.2								
4811-212 Toll service, interstate MTS		Avg.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1972		100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1973		102.9	100.0	103.2	103.2	103.2	103.2	103.2	103.1	103.1	103.1	103.1	103.1	103.1
1974		103.0	103.1	103.1	103.1	103.1	103.1	102.9	102.9	102.9	102.9	102.9	102.9	102.9
1975		111.7	102.9	102.9	113.5	113.5	113.5	113.5	113.5	113.5	113.5	113.5	113.5	113.5
1976		118.9	113.5	113.5	120.2	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0	120.0
1977		120.6	120.0	120.0	120.0	120.0	120.0	120.0	119.7	119.7	121.9	121.9	121.9	121.9
1978		121.9	121.9	121.9	121.9	121.9	121.9	121.9	121.9	121.9	121.9	121.9	121.9	121.9
1979		120.8	120.9	120.8	120.8	120.8	120.8	120.8	120.8	120.8	120.8	120.8	120.8	120.8
1980		124.6	120.8	120.8	120.8	120.8	120.8	127.4	127.4	127.4	127.4	127.4	127.4	127.4
1981		137.5	127.4	127.4	127.4	127.4	127.4	127.4	147.7	147.7	147.7	147.7	147.7	147.7
1982		152.0	147.7	147.7	147.7	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4
1983		153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4	153.4
1984		148.8	153.4	153.4	153.4	153.4	153.4	145.6	145.6	145.6	145.6	145.6	145.6	145.6
1985		143.3	145.6	145.6	145.6	145.6	147.9	141.3	141.3	141.3	141.3	141.3	141.3	141.3
1986		133.0	141.3	141.3	141.3	141.3	141.3	127.2	127.1	127.1	127.1	127.1	127.1	127.1
1987		111.9	113.8	113.8	113.8	113.8	113.8	113.8	110.0	110.0	110.0	110.0	110.0	110.0
1988			107.0	107.0	107.0	107.0								

Table 5.7 (cont.)

4811-213	Toll service, international MTS												
	Avg.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1972	100.0	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	99.4
1973	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
1974	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
1975	98.7	99.4	99.4	99.4	99.4	98.3	98.3	98.3	98.3	98.3	98.3	98.3	98.3
1976	100.0	98.3	98.3	99.0	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5	100.5
1977	99.6	100.5	100.5	100.5	100.5	100.5	100.5	98.7	98.7	98.7	98.7	98.7	98.7
1978	94.9	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	97.1	84.0
1979	85.5	84.0	84.0	84.0	84.0	83.3	83.3	83.3	82.7	82.7	91.4	91.4	91.4
1980	94.0	90.9	90.9	90.9	90.9	90.9	96.6	96.2	96.2	96.2	96.2	96.2	96.2
1981	89.4	96.2	95.2	95.2	95.2	95.2	95.2	83.5	83.5	83.5	83.5	83.5	83.5
1982	88.5	83.5	83.5	83.5	83.5	83.5	91.4	91.4	92.3	92.3	92.3	92.3	92.3
1983	92.4	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.3	92.7	92.7	92.7
1984	89.2	92.7	92.5	92.5	92.5	92.5	87.3	86.8	86.8	86.8	86.8	86.8	86.8
1985	86.6	86.8	86.8	86.8	86.8	86.8	86.5	86.5	86.5	86.5	86.5	86.5	86.5
1986	84.2	84.2	84.2	84.2	84.3	84.3	84.1	84.1	84.1	84.1	84.1	84.1	84.1
1987	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	84.0	83.8	83.8
1988		83.8	83.8	83.8	83.8								

4811-214	Toll service, WATS												
	Avg.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1972	100.0	99.8	99.8	99.8	99.8	99.8	99.8	99.8	100.3	100.3	100.3	100.3	100.0
1973	101.8	100.1	100.1	101.5	101.5	101.5	101.5	101.5	102.6	102.6	102.6	102.8	103.5
1974	103.1	103.7	103.7	103.7	103.7	103.7	103.7	102.5	102.5	102.7	102.6	102.6	102.6
1975	105.3	102.7	102.7	104.5	105.2	105.2	105.2	105.2	105.5	106.4	106.4	106.8	108.0
1976	109.8	108.0	108.0	109.6	109.6	109.6	109.6	109.6	110.8	110.8	110.8	110.8	110.8
1977	111.6	111.1	111.3	111.3	111.4	111.4	111.4	111.4	111.6	111.6	112.3	112.3	112.4
1978	112.9	112.4	112.4	113.0	112.7	112.7	112.7	113.2	113.2	113.2	113.2	113.2	113.2
1979	113.8	113.2	113.2	113.2	113.6	113.6	113.6	113.6	114.3	114.3	114.3	114.3	114.4
1980	116.9	114.4	114.4	114.4	114.6	114.6	118.4	118.4	118.4	118.4	118.8	118.8	118.8
1981	124.9	120.2	120.2	120.2	120.2	120.5	120.5	128.9	128.9	129.8	129.8	129.8	129.9
1982	132.5	129.9	129.9	129.9	133.5	133.4	133.4	133.4	133.5	133.5	133.1	133.1	133.1
1983	132.9	131.8	131.8	131.8	131.8	132.4	132.7	133.7	133.7	133.7	133.7	133.7	133.7
1984	129.6	132.2	132.2	132.7	132.6	132.8	127.2	127.6	127.5	127.5	127.6	127.6	127.8
1985	125.3	127.6	127.6	127.8	127.8	128.2	123.5	123.5	123.5	123.7	123.6	123.5	123.3
1986	118.4	124.2	124.2	124.2	124.4	124.9	115.4	115.3	114.2	113.8	113.8	113.7	113.3
1987	110.5	111.0	110.9	110.9	110.9	110.9	110.3	110.3	110.1	110.1	110.1	110.1	110.1
1988		106.3	105.8	105.8	105.1								



Table 5.7 (cont.)

## 4811-214-11 Toll service, interstate WATS

	Avg.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1972	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0
1973	101.7	100.0	100.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0	102.0
1974	101.1	102.0	102.0	102.0	102.0	102.0	102.0	100.3	100.3	100.3	100.3	100.3	100.3
1975	102.5	100.3	100.3	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9	102.9
1976	104.7	102.9	102.9	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1
1977	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1
1978	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1
1979	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1	105.1
1980	108.2	105.1	105.1	105.1	105.1	105.1	110.5	110.5	110.5	110.5	110.5	110.5	110.5
1981	116.3	110.5	110.5	110.5	110.5	110.5	110.5	122.1	122.1	122.1	122.1	122.1	122.1
1982	125.8	122.1	122.1	122.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1
1983	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1
1984	122.7	127.1	127.1	127.1	127.1	127.1	119.6	119.6	119.6	119.6	119.6	119.6	119.6
1985	115.8	119.6	119.6	119.6	119.6	119.6	113.1	113.1	113.1	113.1	113.1	113.1	113.1
1986	105.9	113.1	113.1	113.1	113.1	113.9	100.8	100.6	100.6	100.6	100.6	100.6	100.6
1987	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5	97.5
1988		93.1	93.1	93.1	93.1								

## 4811-214-12 Toll service, intrastate WATS

	Avg.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1972	100.0	99.1	99.3	99.3	99.3	99.3	99.3	99.3	101.3	101.3	101.3	101.3	100.1
1973	102.2	100.2	100.2	100.2	100.2	100.2	100.2	100.2	104.0	104.0	104.0	104.9	107.6
1974	108.4	108.1	108.1	108.1	108.1	108.1	108.1	108.1	108.1	109.1	108.8	108.8	108.8
1975	112.8	108.8	108.8	108.5	111.2	111.2	111.2	111.2	112.4	115.7	115.7	117.0	121.6
1976	123.4	121.6	121.6	121.6	121.6	121.6	121.6	121.6	126.0	126.0	126.0	126.0	126.0
1977	128.8	126.7	127.5	127.5	127.9	127.9	127.9	127.9	128.8	128.8	131.4	131.4	131.7
1978	133.6	131.7	131.5	133.8	132.7	132.7	132.7	134.4	134.7	134.7	134.7	134.7	134.7
1979	136.8	134.7	134.7	134.7	136.0	136.0	136.0	136.0	138.5	138.5	138.5	138.5	139.0
1980	139.6	139.0	138.8	138.8	139.7	139.7	139.3	139.3	139.3	139.3	140.7	140.7	140.7
1981	147.6	145.9	145.8	145.8	145.8	146.9	146.9	146.9	146.9	150.1	150.1	150.1	150.5
1982	149.9	150.5	150.5	150.5	150.5	149.9	149.9	149.9	150.4	150.4	148.9	148.9	148.9
1983	148.2	144.1	144.3	144.3	144.3	146.3	147.6	151.2	151.2	151.2	151.2	151.2	151.1
1984	147.8	145.6	145.9	147.3	147.1	147.8	147.4	148.8	148.5	148.5	148.7	148.7	149.6
1985	150.4	148.8	148.8	149.7	149.5	150.9	151.0	151.0	151.0	151.6	151.3	150.9	150.3
1986	151.7	153.6	153.6	153.6	154.2	154.1	154.3	154.3	150.2	148.9	148.7	148.6	146.9
1987	144.9	146.9	146.4	146.4	146.4	146.4	144.2	144.1	143.7	143.6	143.4	143.4	143.4
1988		141.1	139.5	139.5	137.0								

Table 5.7 (cont.)

## 4811-311 Private lines, interstate

	Avg.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1972	100.0	98.5	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1
1973	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	100.1	99.6
1974	99.5	99.6	99.6	99.6	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5	99.5
1975	103.4	99.5	99.5	99.5	102.2	103.6	103.8	103.8	103.8	103.8	107.0	107.0	107.0
1976	108.2	107.0	107.0	108.7	109.0	109.0	108.3	108.3	108.3	108.3	108.3	108.3	108.3
1977	108.4	108.3	108.3	108.3	108.3	108.3	108.4	108.4	108.4	108.4	108.4	108.7	108.6
1978	108.6	108.6	108.6	108.6	108.6	108.6	108.6	108.6	108.6	108.6	108.6	108.6	108.6
1979	108.5	108.6	108.6	108.6	108.7	108.7	108.7	108.7	108.7	108.3	108.3	108.3	108.3
1980	109.7	108.3	108.3	108.3	108.3	108.3	110.7	110.7	110.7	110.8	110.8	110.8	110.8
1981	133.5	110.8	110.8	110.8	110.8	117.2	117.2	153.3	153.3	154.5	154.5	154.5	154.5
1982	156.3	154.5	154.5	154.5	156.9	156.9	156.9	156.9	156.9	156.9	156.9	156.9	156.9
1983	157.0	156.9	156.9	156.9	156.9	156.9	156.9	156.9	156.9	156.9	156.9	156.9	158.4
1984	159.2	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	163.1	163.1
1985	165.9	163.1	163.1	159.2	159.2	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3
1986	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3
1987	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3	168.3
1988		168.3	168.3	168.3	168.3								

## 4811-911 Directory advertising

	Avg.	Jan.	Feb.	Mar.	Apr.	May	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
1973	98.4	99.9	99.4	98.4	98.8	98.2	98.3	98.2	98.3	98.0	98.0	97.8	97.8
1974	104.3	97.5	97.8	99.1	101.0	103.0	105.0	105.4	105.9	107.3	109.1	109.9	110.6
1975	117.2	112.1	113.3	115.3	115.7	115.8	116.6	117.0	118.3	119.3	120.5	121.1	121.6
1976	125.1	122.6	122.3	122.9	123.5	125.1	125.6	125.7	125.9	126.4	126.8	127.1	127.4
1977	131.5	128.6	128.9	129.8	130.5	130.0	131.1	131.4	131.6	132.9	134.0	134.3	134.7
1978	139.3	134.9	135.6	136.1	137.0	139.2	140.7	141.1	140.7	140.2	141.3	142.2	143.2
1979	148.0	144.0	143.9	145.4	145.9	146.4	147.4	148.2	149.9	152.0	151.2	151.4	150.7
1980	155.4	151.6	152.8	153.0	153.3	153.8	154.6	155.3	156.2	157.0	158.5	159.2	159.5
1981	159.4	159.9	158.2	159.1	160.0	160.7	160.6	160.1	157.0	157.3	159.2	159.5	160.7
1982	172.0	164.7	166.4	166.4	168.5	170.4	170.2	171.2	173.4	175.6	177.5	179.3	180.2
1983	193.5	182.6	184.5	185.2	188.1	190.6	192.4	194.0	196.3	198.8	201.0	203.7	204.9
1984	216.9	207.9	208.9	209.9	212.4	214.8	219.0	220.0	222.0	219.5	221.5	222.8	224.4
1985	240.5	228.2	230.9	233.2	236.1	238.7	243.3	243.8	244.0	244.9	246.5	248.0	248.2
1986	258.5	249.6	251.6	253.0	254.6	257.8	260.2	260.7	261.7	262.3	262.9	263.8	264.3
1987	270.7	265.8	266.9	267.7	269.6	268.1	270.7	270.1	270.4	271.6	274.5	276.4	276.2
1988		280.6	282.4	283.5	284.4								

## INFORMATION ON RATE LEVELS:

This section describes the level of local and long distance rates and access charges in dollar terms.

### Local Rates

Local rates are regulated by state regulatory agencies and vary greatly from area to area. Characterization of any rate as "typical" is therefore difficult. In most states, the Bell Operating Companies and larger independent telephone companies charge higher rates in metropolitan areas than in rural areas -- a pricing practice that dates back to the turn of the century and is traditionally justified by the belief that the value of the service provided is higher for subscribers with more populous local calling areas. This also reflects the fact that the operating companies forego toll revenue when exchange calling areas increase in size. California differs from most states in that rates are averaged throughout the state. There, the basic local rate is \$8.25 for areas served by Pacific Bell and \$9.75 for areas served by General of California.

Table 5.8 presents average local residential rates in October 1986, April 1987, October 1987 and April 1988. The price indexes published by the BLS indicate percentage changes in the price of the telephone services. The BLS does not publish the actual level of rates. The averages shown in Table 5.8 are based on a FCC survey using the same sampling areas and weights used by the Bureau of Labor Statistics (BLS) in constructing the Consumer Price Index. In April 1988, the national average for flat rate residential service was \$12.22 monthly. In April 1987 this average rate was \$12.51, and in October 1987 this average rate was \$12.19. Lower-priced service alternatives are frequently available, at an average monthly charge of \$5.69. 2

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- 2 The methodology used in conducting the survey is contained in the Primer and Sourcebook on Telephone Price Indexes and Rate Levels. The city specific data from the October 1986 survey is contained in Appendix 6 of the Primer. The city specific data from the April 1987 survey is contained in Local Rates Update, Mimeo No. 4768, released September 14, 1987. The city specific data from the October 1987 survey is contained in Telephone Rates Update, released December 8, 1987. Comparisons made in that report show that changes in the survey averages are roughly consistent with changes in the CPI and PPI local residential service indexes when adjustments are made for different sample definitions.

Table 5.8  
Average Monthly Telephone Rates\*

	October 1986	April 1987	October 1987	April 1988
Lowest generally available price**	\$ 6.00	\$ 6.08	\$ 6.11	\$5.69
Subscriber line charges***	2.07	2.08	2.69	2.67
Taxes	<u>.80</u>	<u>.81</u>	<u>.92</u>	<u>.99</u>
Total	8.87	8.97	9.72	9.35
Private rotary line, with unlimited local calling****	12.55	12.51	12.19	12.22
Subscriber line charges***	2.07	2.08	2.69	2.67
Taxes	<u>1.52</u>	<u>1.50</u>	<u>1.53</u>	<u>1.71</u>
Total	16.13	16.09	16.41	16.61
Connection of rotary service where no premises visit is required	45.63	45.12	43.59	42.81
Taxes	<u>n.a</u>	<u>2.50</u>	<u>2.66</u>	<u>2.54</u>
Total	n.a	47.61	46.25	45.35

\* Rates include some surcharges that result in revenues for the local telephone company. 911 service fees are included in taxes. For an explanation of the methodology and the underlying data through October 1987, see Local Rates Update. Much of the April 1988 data has been collected directly from carriers. As a consequence, the data better reflects municipal taxes and the availability of 2 party Measured Service rates. Items do not always sum to totals due to rounding differences.

\*\* The lowest generally available price is the monthly charge for party line and/or measured service if available in the downtown area. (The private rotary line unlimited calling rate was used in the few cities where lower rates were not available.) The average does not include lifeline rates or subsidized rates which are available only to persons who meet selected criteria such as age or use of food stamps.

\*\*\* Subscriber line charges include state charges as well as federal charges.

\*\*\*\* Unlimited calling service is not available in New York City or Chicago. Equivalent rates were estimated as the measured service rate with 100 message units.

The local rate averages shown in Table 5.8 are based on rates that are available to all customers. Many states have programs that subsidize monthly service charges or connection fees paid by needy households. These programs are further described in Section 2 above. Most of these programs are part of the FCC sponsored Lifeline and Link Up programs. As of April 15, 1988, assistance for monthly service charges was offered in 48 of the 95 sample cities, representing 52% of urban consumers. Connection assistance was offered in 56 of the 95 sample cities representing 59% of urban consumers. Approved Link Up programs covered 3 additional cities, but had not been implemented as of April 15, 1988.

In the 48 cities where lifeline-type services were available, data were collected for the subsidized monthly rate for the service most similar to a private rotary line with unlimited local calling. In cities where the only subsidized service was a measured or message rate service, the charge includes 100 five minute day time calls. The average cost was \$11.01 for subsidized monthly service, including \$.31 for subscriber line charges and \$1.30 for tax. The average cost for comparable non-subsidized service was \$17.22 (including taxes and subscriber line charges) in those 48 cities. Thus, Lifeline and similar assistance programs provide an average benefit of \$6 per month.

Data also were collected for subsidized connection charges. The average subsidized connection cost was \$21.89, including \$1.42 tax, in the 56 cities where subsidized connection was available. The average charge for non-subsidized connection was \$46.67 in these cities. Thus, Link Up and similar connection assistance programs reduce connection costs by an average of \$24.

#### Long Distance Rates

Table 5.9 compares the prices of interstate long distance calls in all mileage bands and rate periods based on AT&T's tariffed rates in effect during January 1984 and January 1988. These rates are the basic message toll service rates and do not reflect discounts available in special calling plans. They also do not reflect taxes and surcharges imposed by some states. During this period, AT&T's per minute charges for interstate calls have been reduced about 34% for the average residential customer. This presentation of interstate toll levels was requested by the D.C. Public Service Commission. In the September report, we presented sample rates from Washington, D.C., to New York City, which is in the 125-292 mileage band, to Atlanta and Chicago, which are in the 431-925 mileage band, and to Los Angeles, which is in the 1911-3000 mileage band.

Table 5.9  
Changes in the Price of Directly Dialed Long Distance Calls  
(AT&T Interstate Rates)

Calling Distance (in miles)		Five minute calls			Ten minute calls		
		Jan. 1984	Jan. 1988	Percentage change	Jan. 1984	Jan. 1988	Percentage change
1 - 10	Day	\$0.96	\$0.77	-19.8%	\$1.76	\$1.47	-16.5%
	Evening	0.57	0.50	-12.3	1.05	0.95	- 9.5
	Night	0.38	0.38	0.0	0.70	0.73	4.3
11 - 22	Day	1.28	0.94	-26.6	2.38	1.79	-24.8
	Evening	0.76	0.61	-19.7	1.42	1.16	-18.3
	Night	0.51	0.47	- 7.8	0.95	0.89	- 6.3
23 - 55	Day	1.60	1.04	-35.0	3.00	1.99	-33.7
	Evening	0.96	0.67	-30.2	1.80	1.29	-28.3
	Night	0.64	0.52	-18.8	1.20	0.99	-17.5
56 - 124	Day	2.05	1.13	-44.9	3.90	2.18	-44.1
	Evening	1.22	0.73	-40.2	2.34	1.41	-39.7
	Night	0.82	0.56	-31.7	1.56	1.08	-30.8
125 - 292	Day	2.14	1.25	-41.6	4.09	2.45	-40.1
	Evening	1.28	0.81	-36.7	2.45	1.59	-35.1
	Night	0.85	0.62	-27.1	1.63	1.22	-25.2
293 - 430	Day	2.27	1.30	-42.7	4.37	2.55	-41.6
	Evening	1.36	0.84	-38.2	2.62	1.65	-37.0
	Night	0.90	0.65	-27.8	1.74	1.27	-27.0
431 - 925	Day	2.34	1.39	-40.6	4.49	2.74	-39.0
	Evening	1.40	0.90	-35.7	2.69	1.78	-33.8
	Night	0.93	0.69	-25.8	1.79	1.37	-23.5
926 - 1910	Day	2.40	1.41	-41.2	4.60	2.76	-40.0
	Evening	1.44	0.91	-36.8	2.75	1.79	-34.9
	Night	0.96	0.70	-27.1	1.84	1.38	-25.0
1911 - 3000	Day	2.70	1.48	-45.2	5.15	2.88	-44.1
	Evening	1.62	0.96	-40.7	3.09	1.87	-39.5
	Night	1.08	0.74	-31.5	2.06	1.44	-30.1
3001 - 4250	Day	2.80	1.69	-39.6	5.35	3.29	-38.5
	Evening	1.68	1.09	-35.1	3.21	2.13	-33.6
	Night	1.12	0.84	-25.0	2.14	1.64	-23.4

4251 - 5750	Day	2.91	1.79	-38.5	5.56	3.49	-37.2
	Evening	1.74	1.16	-33.3	3.33	2.26	-32.1
	Night	1.16	0.89	-23.3	2.22	1.74	-21.6

Subscriber Line and Access Charges

Monthly interstate subscriber line charges (or "end user" charges) were first imposed on multiline business customers in 1984 and were charged to residential customers beginning in 1985. Table 5.10 presents the level of these charges over time.

Table 5.10

Interstate Subscriber Line Charges  
by Local Telephone Companies to End Users  
(In Dollars per Month per Line)

		Residential and Single Line Business	Multiline Business *	Centrex**
5/26/84	to 5/31/85	\$0.00	\$4.99	\$2.00
6/1/85	to 9/30/85	1.00	4.99	2.00
10/1/85	to 5/31/86	1.00	4.97	2.00
6/1/86	to 12/31/86	2.00	4.97	3.00
1/1/87	to 6/30/87	2.00	5.12	3.00
7/1/87	to Present	2.60	5.12	4.00

\* The monthly subscriber line charge for multiline business customers is capped at a maximum rate of \$6.00 monthly. Local companies are not permitted to charge the full amount unless justified by their underlying costs. As a result, some companies do not charge the full \$6.00. This column represents a national average calculated by NECA.

\*\* These rates apply to "embedded" centrex lines - that is, centrex lines in place or on order as of July 27, 1983. Customers with new centrex lines pay the multiline business subscriber line charge.

Access charges by local telephone companies to long distance carriers are an important component of the overall cost of providing long distance service. Changes in the average level of these charges are shown in Table 5.11.

Table 5.11

Interstate Charges by Local Telephone Companies to Long Distance Carriers  
(National Average for "Premium" Service in Cents per Minute)

	Carrier Common Line Charge Per Originating Access Minute <u>1/</u>	Carrier Common Line Charge Per Terminating Access Minute <u>1/</u>	Total Traffic Sensitive Charge Per Access Minute <u>2/</u>	Total Charges Per Conversation Minute <u>3/</u>
5/26/84 to 12/31/84	5.24	5.24	3.1	17.3
1/1/85 to 5/31/85	5.43	5.43	3.1	17.7
6/1/85 to 9/30/85	4.71	4.71	3.1	16.2
10/1/85 to 5/31/86	4.33	4.33	3.1	15.4
6/1/86 to 12/31/86	3.04	4.33	3.1	14.0
1/1/87 to 6/30/87	1.55	4.33	3.1	12.4
7/1/87 to 12/31/87	0.69	4.33	3.1	11.5
1/1/88 to Present	0.00	4.14	3.1	10.6

1/ These are nationally uniform "premium" rates specified in tariffs filed by the National Exchange Carrier Association (NECA). Where equal access is not available, carriers other than AT&T pay discounted "non-premium" rates.

2/ Traffic sensitive switched access rates are not subject to mandatory pooling and are thus not nationally uniform. The rate shown in this column has been estimated by the FCC staff as a weighted average that includes both switching and transport charges.

3/ Long distance carriers are billed originating access charges for the time that the local network is tied up with calls that are not completed and for the time involved in setting up calls. As a result, the number of originating access minutes exceeds the number of conversation minutes. Using the ratio of access minutes to conversation minutes presented by AT&T for its domestic interstate service, the charges in this column have been calculated as follows: 107% of the originating carrier common line rate + 100% of the terminating carrier common line rate + 107% of the traffic sensitive rate (for originating access) + 100% of the traffic sensitive access rate (for terminating access).



STATE TELEPHONE RATE CASES:

The actions of state regulatory commissions provide important indicators of future local and state toll rate levels. Rate cases completed by the state commissions tend to result in immediate rate changes. At the same time, the amount of rate relief requested by local telephone companies, but not yet acted upon by state commissions, provides an indication of future rate changes.

At the time of divestiture, rate cases pending before state public utility commissions totaled nearly \$7 billion. During the first half of 1984, state commissions completed action on a number of extraordinarily large rate cases. After the first half of 1984, however, the level of activity in state cases diminished substantially. During 1987 and early 1988, the dollar amount of rate reductions and refunds ordered by state commissions exceeded the dollar amount of rate increases authorized. During the first quarter of 1988, total rate requests pending had declined to less than \$200 million. Since it typically takes more than a year for a rate case to be completed, the low level of pending cases should indicate a correspondingly low level of state and local increases during at least the next year. The data on state rate cases are shown in Table 5.12.

The information in Table 5.12 reflects data we have received from the Bell Operating Companies, Contel, GTE, and United Telephone on pending state rate cases. In addition to this, the state utility commissions of Colorado, Ohio, and Wisconsin have informed us of approximately \$2 million in pending revenue increases from various smaller telephone companies. This figure has not been included in Table 5.12 since we have not yet received comparable information from many other states.

TABLE 5.12

State Telephone Rate Cases  
(Millions of Dollars)

	<u>Revenue</u> <u>Increases</u> <u>Requested</u> <u>During Quarter</u>	<u>Revenue</u> <u>Changes</u> <u>Ordered</u> <u>During Quarter</u>	<u>Requests</u> <u>Pending</u> <u>at End</u> <u>of Quarter</u>
1984 First quarter	\$ 627.7	\$ 1,175.6	\$ 4,851.9
Second quarter	93.7	2,054.2	1,675.6
Third quarter	2,242.9	284.5	3,387.5
Fourth quarter	1,059.4	361.2	3,672.3
Total	<u>4,023.7</u>	<u>3,875.5</u>	
1985 First quarter	976.6	246.3	3,779.0
Second quarter	172.4	314.8	3,316.3
Third quarter	108.3	286.5	2,664.2
Fourth quarter	369.9	307.3	1,437.3
Total	<u>1,627.2</u>	<u>1,154.9</u>	
1986 First quarter	155.1	58.0	766.2
Second quarter	249.9	57.9	362.0
Third quarter	230.0	173.3	315.7
Fourth quarter	8.7	.8	322.6
Total	<u>643.7</u>	<u>290.0</u>	
1987 First quarter	7.0	-41.0	67.1
Second quarter	19.4	-48.5	47.7
Third quarter	62.0	-91.0	94.0
Fourth quarter	57.9	-279.9	124.7
Total	<u>146.3</u>	<u>-460.4</u>	
1988 First quarter	58.8	-254.9	168.8

ADDITIONAL DATA RECEIVED

Several state utility commissions have filed rate and tariff information in our monitoring docket. As of the cutoff date for this report, tariff data have been submitted in the monitoring docket by the following states: Arkansas, Colorado, District of Columbia, Florida, Idaho, Indiana, Massachusetts, Michigan, Nebraska, New Jersey, North Carolina, North Dakota, Ohio, Rhode Island, Virginia, Washington, and Wisconsin. Several other states have filed data since that time and will be included in the next monitoring report. We have not included the data in this report because the data are voluminous. However, the data are available for research and reference in the Public Reference Room maintained by the FCC's Industry Analysis Division. A summary of the rate information that has been filed is in Table 5.13.

Table 5.13

Rate Information Provided by States

	No. of carriers for which R-1 and B-1 rates are provided*	No. of carriers for which intrastate toll rates are provided	Status for state rate cases **
Arkansas	28	17	x
Colorado	31	3	x
District of Col.	1	N/A	x
Florida	14	1	x
Idaho	21	1	x
Indiana	42	4	x
Massachusetts	1	1	
Michigan	45	3	
Nebraska	42	1	
New Jersey	3	3	x
North Carolina	19	16	x
North Dakota	10	1	
Ohio	44	33	x
Rhode Island	1	1	x
Virginia	20	9	x
Washington	1	0	x
Wisconsin	100	4	x

\* Most states provided tariff pages.

\*\* x indicates information has been filed.

## 6. Bypass

The first monitoring report, September 1987, emphasized the need for a uniform and periodic bypass reporting system. That monitoring report requested proposals for a bypass reporting system, and included substantial excerpts from the Common Carrier Bureau's Third Report on Bypass of the Public Switched Network (May 26, 1987).

The second monitoring report, December 1987, contained an analysis by the Joint Board Staff of the comments and proposals received in response to the request made in the first report. As a result of the analysis of the proposals, the staff suggested three part bypass monitoring data forms, which were published in the December report. The three reporting forms are Form I, Actual New Bypass Experienced Since Last Report; Form II, Bypass Abandoned/Discontinued Since Last Report; Form III, Estimated Revenue Loss --(including all bypass annualized). The periodic bypass reports would be supplied by the major carriers, the Regional Bell Operating Companies (RBOCs) and GTE. In order to establish a historical baseline for bypass data, the initial reports were to include all bypass experienced to date. Successive reports will only include new bypass related activity. Copies of the three-part data forms are contained in Attachment I.

On December 24, 1987, the Chief of the Common Carrier Bureau sent the three-part bypass data forms to the seven Regional Bell Operating Companies and GTE. The Bureau Chief requested that the first set of completed forms be filed by April 29, 1988, in time to be incorporated in the June 1988 monitoring report. Thereafter, reports will be filed on a semi-annual basis. The Joint Board staff also encouraged other local exchange companies to file bypass data and reports.

On April 29, 1988 the RBOCs and GTE submitted their first bypass reports based on the Joint Board forms. Only Ameritech reported on revenues gained due to bypassers returning to the public switched network. Ameritech reported an annual revenue gain of \$3 million due to those who abandoned bypass and returned to the Public Switched Telephone Network. The revenue losses reported reflect gross revenue and have not been netted against the costs of providing service.

The initial data submissions were not as consistent as we might have hoped. Since this initial data collection can be viewed as a pilot effort, and since the data gathering and calculating are complex processes, it is not surprising that some inconsistencies arose. For example, some of the carriers reported their results annualized on 1987 rates while others annualized on 1988 rates. Some carriers completed all the forms and others did not. Therefore, the data must be read with these inconsistencies in mind. Despite the various problems, we have compiled the data presented to us and this compilation is shown in Table 6.1.

**Table 6.1**  
**Bypass Data Summary**  
**Estimated Revenue Loss**

Company:	Ameritech	Bell Atlantic	Bell South	GTE	NYNEX	Pacific Telesis	Southwestern Bell	US West	TOTAL
<b>Facility Bypass - Switched</b>									
MOU (Billion)	7.6	7.2	0.2	2.6	1.6	1.7	2.9	0.4	24.1
Rev. Factor (\$/Min.)	0.044	0.048	0.049	0.033	0.055	0.056	0.045	0.055	0.046
Revenue (\$ Million)	333.6	347.5	8.8	86.2	88.0	93.1	130.9	22.8	1110.9
<b>Facility Bypass - Private Line</b>									
No. lines (Thousand)	112.1	*	0.1	17.0	*	7.3	79.3	7.8	223.6
Revenue (\$ Million)	113.0	*	1.5	32.9	*	10.6	109.4	14.3	281.6
<b>Service Bypass</b>									
MOU (Billion)	13.5	15.7	8.3	3.2	13.4	6.6	11.5	12.0	84.1
Revenue (\$ Million)	393.1	510.8	272.9	95.1	330.0	226.3	203.3	336.6	2368.1
<b>Total MOU (Billion)</b>	<b>21.0</b>	<b>22.9</b>	<b>8.5</b>	<b>5.8</b>	<b>15.0</b>	<b>8.2</b>	<b>14.5</b>	<b>12.4</b>	<b>108.2</b>
<b>Total Revenue (\$ Million)</b>	<b>839.7</b>	<b>858.3</b>	<b>283.1</b>	<b>214.2</b>	<b>418.0</b>	<b>330.0</b>	<b>443.6</b>	<b>373.6</b>	<b>3760.7</b>

\* Data insignificant or not available

The total estimated revenue loss is \$3.8 billion. The total estimated minutes lost are 108 billion. However, given the problems surfacing in the first set of reports, these numbers must be viewed as subject to potentially large corrections. The full texts of the reports and other submissions are available for inspection in the FCC's Industry Analysis Division Public Reference Room.

To eliminate future inconsistencies the Joint Board staff is requesting that the following dates be used in compiling future reports. For bypass reports due in October, rates in effect on June 30 should be used to quantify "Revenue Lost". Estimates of minutes lost should be developed using data from the month of June (or the second quarter) as the basis for annualized estimates. For bypass reports due in April, rates in effect on December 31 should be used to quantify "Revenue Lost." Estimates of minutes lost should be developed using data from the month of December (or the fourth quarter) as the basis for annualized estimates.

The Joint Board staff is also requesting that all the carriers complete the Forms I, II, and III as required.

#### Reports by the Regional Bell Operating Companies & GTE

For the initial bypass data report, the respondents were requested to establish a historical baseline for bypass. The RBOCs and GTE compiled a historical collection of inter-LATA bypassers. These bypass installations were then analyzed and the revenue losses to service and facility bypass were then annualized.

The reports listed the following difficulties in compiling the data:

- (1) A complete list of all end user bypassers could not be compiled.
- (2) Some of the traffic carried over special access arrangements (video, data) could not be accommodated by switched access. It cannot be assumed that all special access circuits at a particular location constitute service bypass.
- (3) Documenting facility bypass is difficult since customers and end users have no incentive to report such bypass.
- (4) It has also proven difficult to precisely determine the factors that were the prime influence in users deciding to bypass.
- (5) Collecting data on end users who had abandoned bypass and returned to the public switched network proved to be difficult and, with the exception of Ameritech, no data on abandoned bypass was reported.

#### Additional Bypass Comments

In addition to the reports received from the RBOCs and GTE, we also received a number of additional items related to bypass. Comments and other information were filed by the District of Columbia, the States of Colorado, Florida, Indiana, Massachusetts, Michigan, New Jersey, North Carolina, Ohio,

Rhode Island, Virginia, Washington, and Wisconsin, and Teleport Communications. The major points made in each of these follows.

District of Columbia

The Public Service Commission of the District of Columbia submitted a table of known instances of bypass activity. This table contains 22 items.

State of Colorado Public Utilities Commission

The Colorado Public Utilities Commission included in its filing Chapter X, "Bypass in Colorado", of a 1986 study by R.W. Beck & Associates entitled A Study of Intrastate Telecommunications Including the Means Available to Enhance Intrastate Telecommunications Competition. That material include the following conclusions:

- 1 Bypass is a recent but growing phenomenon.
- 2 The single most important determinant of bypass is price (out of six specifically tested).
- 3 The most frequently observed form of facilities bypass is the use of facilities to connect company locations.
- 4 Private microwave and coaxial cable are the most frequently used bypass technologies (out of seven specifically tested).
- 5 The average bypasser who reported on estimated savings, saved over 20 percent from rates charged by carriers.
- 6 The key distinguishing feature between bypassers and nonbypassers is the degree to which the average employee uses the telephone. Sixty-two percent of bypassers reported that over three-quarters of their employees regularly use the telephone for business reasons. The comparable figure for nonbypassers is 47 percent. There is also some indication that bypassers are somewhat more likely to have more locations than nonbypassers.

State of Florida

The State of Florida Public Service Commission submitted the following comments on bypass:

As discussed previously in this Order [18598 - issued December 24, 1987], the majority of the parties arguing in favor of access charge reductions also argued that bypass was a driving factor in their push to reduce access charges. In order to evaluate the claims of these parties Staff's witness Blondin examined the most recent 36 months of revenue and unit data for MTS, WATS, Access Lines, and Special Access lines to look for indications that bypass was affecting these various services. Witness Blondin attempted to discern whether there were any significant decreases in the volume of long distance calling, a relative decline in MTS calling to WATS or Private Line Services, and shifts from LEC switched access facilities to some other form of connection to IXCs. Witness Blondin's findings showed increases in long distance calling, the ratio of MTS to WATS or Private Line Services were relatively stable over three years, and no significant amount of shifting from LECs' switched facilities to some other type of connection to IXCs. Witness Blondin concluded from the data that if uneconomic bypass is occurring, it does not appear to be adversely affecting the LECs' revenue streams because revenues continue to increase.

While no specific evidence of the occurrence of uneconomic facilities bypass was presented to this Commission, Southern Bell, General and United, did testify about their concerns of a growing threat of facilities bypass. Service bypass occurs when a customer moves from one toll service to another toll service that pays less access charges. In these cases the LEC does not lose a customer entirely, the customer merely moves to a more economical service. We note that when service bypass occurs, the LEC does lose the switched access CCL charge revenue generated by that customer. However, the remainder of switched access charges still apply to the originating traffic.

ATT-C expressed concern about potential facilities bypass where large toll users build their own networks and bypass the IXCs as well as the LECs. Sprint's witness, Dr. Cornell, did not share ATT-C's concern, stating 'I'm not persuaded that at the moment true bypass, by which I mean



using other than Telco facilities, is the big boogie-man people have made it out to be.'

Based on the evidence presented in this docket and the analysis conducted by witness Blondin, if uneconomic bypass is occurring it does not appear to be adversely affecting the LECs. In addition, insufficient evidence was presented to show the market placing downward pressure on access rates.

The evidence presented indicates that the services customers migrate to, such as Private Line and Special Access, are below cost. In addition, it appears that the major trigger to bypass is normally interstate traffic, and intrastate is an add-on that comes with it. Thus high intrastate access prices do not appear to be driving service bypass but mispricing of services may very well be.

#### State of Indiana

The State of Indiana Office of Utility Consumer Counselor submitted the following comments on bypass.

There is evidence that even at a CCL charge of zero, bypass might still occur, particularly when the traffic-sensitive switched access rates are based on embedded cost, and thus include markups above marginal cost. If bypass remains a significant concern even with a very low or zero CCL (and thus virtually no contribution from the interexchange carriers toward the fixed costs of the exchange networks), then the FCC should explore other means of protecting the local exchange companies and their customers from the potential revenue erosion resulting from uneconomic bypass. In this context, we would also note that decisions to bypass are most often influenced by factors other than price, such as service quality and control. The SLC could be expected to have no significant impact on these nonprice factors, and may create distorted economic signals. The relative importance of noncost and cost factors should be explored in the monitoring reports.

### Commonwealth of Massachusetts

The Commonwealth of Massachusetts Department of Public Utilities reported that "The issue of bypass has not been addressed in any recent or pending Department (Department of Public Utilities) proceeding."

### State of Michigan

The State of Michigan Public Service Commission submitted the following comments on bypass.

Reference was made on page 85 and 86 of the first report to the California approach to obtaining reports on bypass. This approach seems reasonable and the Commission would support applying it to all companies and all states. This type of data should be obtained as soon as possible and updated for future reports through the period of the monitoring report. Also, further analysis needs to be done and parties need to be encouraged to comment on better ways to quantify the bypass issue.

The assessment of the impact of bypass, again, appears to be an area where individual state commissions, working through NARUC could make a major contribution. The FCC and Joint Board should work with the NARUC to develop a uniform state-by-state approach to collecting nationwide data.

### State of New Jersey

The staff of the New Jersey Board of Public Utilities made the following comments with respect to bypass: (1) Bypass penetration "... is a great threat to those states with high density and low cost, such as New Jersey." (p. 45) (2) The cost of bypass "...due to the availability of various technologies has been reduced over the past few years." (p.45) (3) The New Jersey exchange carriers "... will not be able to compete against bypass until the mandatory pool is discontinued and access charges reflect their true underlying cost." (p. 45) (4) The threat which was pointed out in the 1985 petition filed with the FCC has materialized. The staff report cites 60 examples of large user bypass in the United States. Large user bypass for the eight New Jersey examples cited resulted in the loss of \$2.5 million revenue annually.

### State of North Carolina

The North Carolina Utilities Commission submitted reports on bypass by the Central Telephone Company the Carolina Telephone and Telegraph Company and the North State Telephone Company.

### State of Ohio

The Public Utilities Commission of Ohio (PUCO) submitted the following comments, prepared by the staff of their Telecommunications Division Utilities Department, with respect to bypass:

The PUCO has conducted no studies concerning the occurrence of LEC bypass in Ohio, nor do we know of any statewide analyses which may have been conducted by LECs or others. In our May 21, 1984 Opinion and Order in Case No. 83-646-TP-COI, the PUCO found insufficient evidence to support the view that a threat of uneconomic bypass was imminent. Consequently, we decided not to institute intrastate end user charges.

Since the 1984 Access Charge Order, the PUCO has not addressed the local bypass question in an industry-wide fashion. However, we have approved special toll service contracts between Ohio Bell and General Electric (in 1985), and between United Telephone and Central Mutual Insurance (in 1987), which were designed to prevent bypass of the local network by large end users.

The PUCO is not presently contemplating a general investigation into bypass of LEC facilities in the near future. However, it is possible that we may have to address this issue in a LEC rate proceeding, should a company allege that the existence of uneconomic bypass necessitates the transition of non-traffic sensitive local loop costs from the interexchange carriers to end users, in the form of an intrastate subscriber line charge. Should this occur, the PUCO would require the company to submit specific evidence of bypass in support of its proposal.

### State of Rhode Island

The Division of Public Utilities and Carriers of the State of Rhode Island and Providence Plantations attached the NYNEX April 29, 1988, bypass data which was submitted to the Federal Communications Commission. The results of the NYNEX bypass study are summarized in Table 1 above.

### Commonwealth of Virginia

The Commonwealth of Virginia State Corporation Commission, Division of Communications reported that they "...have no studies of bypass that we can reveal outside this Commission because of telephone company proprietary information content." The report went on to note that "...our study last year revealed that bypass systems have captured only about 0.1% ...of the

Common Line Access minutes of use in Virginia. The study also found that about 82% of bypass systems expected to be operating in Virginia during 1985-1987 would be used for point-to-point communications, about 60% with a LATA."

#### State of Washington

The State of Washington Utilities and Transportation Commission submitted the December 1987 GTE monitoring report and the Pacific Northwest Bell May 1988 bypass report.

#### State of Wisconsin

The Public Service Commission of Wisconsin submitted January 1988 bypass reports by Wisconsin Bell, Inc., and GTE-North.

#### Teleport Communications

Teleport Communications (TC) reported that "...after being in business for over two years no more than 9% of TC's capacity in service is used for bypass (dedicated links between end-users and interexchange carriers)."

Teleport Communications recommended that the bypass monitoring program must be modified in order to:

- (1) Distinguish LEC 'loss' (actual service reduction) from 'diversion' (reduce future growth);
- (2) Measure 'contribution' rather than gross revenue losses and diversions to determine whether any 'subsidy' to residential rates is at risk;
- (3) Calculate how much terminating LEC switched access volume and revenue is stimulated by originating bypass;
- (4) Identify how lower costs resulting from IXC use of non-LEC facilities (for non-bypass applications) stimulate additional switched access revenue for LECs due to competition between IXCs;
- (5) Determine whether LEC costs and rates can be reduced as a result of bypass carrying long distance traffic which doesn't need or benefit from any local switching; and
- (6) Forecast how the local switched network and the goal of low local telephone rates would be threatened by discouraging bypass.

Teleport Communications recommended the following changes in the data reporting forms:

Part I - Actual New Bypass Experienced Since Last Report Rather than a single column for Annualized Revenue Loss, there should be four columns: Annualized Revenue Loss;

Annualized Revenue Diversion; Annualized Contribution Loss;  
and Annualized Contribution Diversion.

Part III - Bypass Study Estimated Revenue Loss This  
Form should be modified to distinguish between 'loss' and  
'diversion' and to indicate the contribution associated with  
each revenue calculation.

ATTACHMENT I  
BYPASS DATA REPORTING FORMS

Company \_\_\_\_\_  
State \_\_\_\_\_  
Date \_\_\_\_\_

ACTUAL NEW BYPASS EXPERIENCED  
SINCE LAST REPORT\*

Approximate Date Bypass Began	Customer Type City, State**	Reason(s) for Bypass***	Annualized Revenue Loss	Facility or Service Bypass****	Congressional District
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\* 1st report to include all bypass experienced to date including predivestiture bypass (Government, military, etc.)  
 \*\* Carriers must be able to identify customer to the Joint Board upon confidential inquiry.  
 \*\*\* By code 1, economic, 2 service(s) unavailable from LEC, 3 security, 4 control, 5 quality, 6 other  
 \*\*\*\* If facility what type (carrier or private) and mode (fiber, etc.)

Company \_\_\_\_\_  
 State \_\_\_\_\_  
 Date \_\_\_\_\_

BYPASS ABANDONED/DISCONTINUED  
 SINCE LAST REPORT

Approximate Date Bypass Began -----	Customer Type City, State* -----	Reasons for Bypass -----	Annualized Revenue Gain -----	Facility or Service Bypass** -----	Congressional District -----
---	--	--------------------------------	-------------------------------------	--	------------------------------------

- \* Carriers must be able to identify customer to the Joint Board upon confidential inquiry.
- \*\* If facility what type (carrier or private) and mode (fiber, etc.)



Company \_\_\_\_\_  
 State \_\_\_\_\_  
 Date \_\_\_\_\_

BYPASS STUDY  
 ESTIMATED REVENUE LOSS  
 (Includes all bypass)  
 (Annualized)

A. FACILITY BYPASS - Switched

1. Estimated MOU Lost to Facility Bypass	MOU
2. Average Switched Access Rate Per Minute	\$
3. Estimated Switched Revenue Loss	\$

B. FACILITY BYPASS - Private Line

1. Estimated number of private line circuits lost to facility bypass	
2. Average Rate per circuit	\$
3. Estimated private line revenue lost	\$

C. SERVICE BYPASS

1. Estimated MOU Lost to Service Bypass	MOU
2. Average Switched Access Rate Per Minute	\$
3. Estimated Switched Revenue Loss	\$
4. <u>Less</u> Special Access Revenue Gained	-\$
5. Estimated Revenue Loss	\$

## 7. Pooling and Rate Deaveraging

As has been noted in previous monitoring reports, the transition to jurisdictionally-specific Carrier Common Line (CCL) charges will not occur until April 1989 and, thus, no new pressures to deaverage interstate toll rates should exist before that time.

Beginning in 1989, our monitoring effort should include information on LECs withdrawing from the pooling process, the dimensions of long term support and transitional support payments among the LECs, and the common line revenue requirements for the LECs remaining in the NECA pool. To further this effort, we asked NECA to file data regarding revenues and expenses of pool members by study area on an annual basis, and nationwide totals on a monthly basis.

The latest nationwide pooling figures through February 1988, provided by NECA, follow in Tables 7.1 through 7.5. Table 7.1 shows the total CCL pool revenues. Table 7.2 shows the pool revenues for Tier I companies. Table 7.3 shows the revenues for non-Tier I companies. Table 7.4 summarizes CCL pool revenues and expenses for the entire year of 1987 and the first two months of 1988. Table 7.5 has corresponding figures for NECA's voluntary traffic sensitive pool.

TABLE 7.1

## NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.

SUPPLEMENTAL REPORT OF COMMON LINE POOL RESULTS  
 REPORTED AS OF APRIL, 1988

PAGE 1 OF 1

## N E C A CCL EARNED REVENUES

## TOTAL COMMON LINE POOL

(REVENUE REPORTED IN MILLIONS)

MONTH/YR	PREMIUM CCL EARNED REVENUE			NONPREMIUM CCL EARNED REVENUE		
	ORIGINATING	TERMINATING	TOTAL	ORIGINATING	TERMINATING	TOTAL
JAN 85	N/A	N/A	700.370	N/A	N/A	52.432
FEB 85	N/A	N/A	705.805	N/A	N/A	53.470
MAR 85	N/A	N/A	728.642	N/A	N/A	55.947
APR 85	N/A	N/A	746.931	N/A	N/A	55.622
MAY 85	N/A	N/A	749.887	N/A	N/A	49.698
JUN 85	N/A	N/A	654.935	N/A	N/A	48.673
JUL 85	N/A	N/A	666.281	N/A	N/A	46.436
AUG 85	N/A	N/A	687.002	N/A	N/A	42.289
SEP 85	N/A	N/A	680.924	N/A	N/A	41.867
OCT 85	N/A	N/A	658.437	N/A	N/A	34.734
NOV 85	N/A	N/A	618.577	N/A	N/A	34.722
DEC 85	N/A	N/A	649.594	N/A	N/A	34.464
JAN 86	N/A	N/A	662.101	N/A	N/A	29.693
FEB 86	N/A	N/A	636.141	N/A	N/A	27.255
MAR 86	N/A	N/A	686.783	N/A	N/A	26.304
APR 86	N/A	N/A	688.706	N/A	N/A	25.358
MAY 86	N/A	N/A	694.736	N/A	N/A	23.586
JUN 86	167.262	356.593	523.856	6.743	16.194	22.938
JUL 86	192.893	350.746	543.640	7.064	15.272	22.337
AUG 86	186.102	355.376	541.479	5.893	13.958	19.852
SEP 86	190.929	352.978	543.908	5.042	13.661	18.704
OCT 86	205.343	366.169	571.513	4.216	13.275	17.492
NOV 86	195.619	351.260	546.880	4.566	13.630	18.197
DEC 86	212.469	382.654	595.124	4.033	13.209	17.243
JAN 87	109.225	371.344	480.570	2.460	12.747	15.208
FEB 87	105.264	373.424	478.689	2.573	13.669	16.243
MAR 87	115.303	411.125	526.429	2.628	15.222	17.851
APR 87	113.176	397.581	510.758	2.538	13.789	16.328
MAY 87	110.801	388.495	499.296	2.247	13.329	15.577
JUN 87	118.120	404.452	522.573	2.067	14.138	16.206
JUL 87	57.494	410.855	468.350	1.076	13.513	14.590
AUG 87	52.495	412.981	465.478	0.822	13.540	14.363
SEP 87	52.743	422.396	475.141	0.811	13.310	14.122
OCT 87	54.602	443.636	498.239	0.757	12.766	13.524
NOV 87	53.339	421.297	474.636	0.711	12.157	12.869
DEC 87	58.855	456.649	515.506	0.823	11.828	12.652
JAN 88	N/A	425.120	425.121	N/A	11.358	11.359
FEB 88	N/A	431.795	431.796	N/A	11.400	11.400

TABLE 7.2

## NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.

SUPPLEMENTAL REPORT OF COMMON LINE POOL RESULTS  
 REPORTED AS OF APRIL, 1988

PAGE 1 OF 1

## N E C A CCL EARNED REVENUES

## TIER 1

(REVENUE REPORTED IN MILLIONS)

MONTH/YR	PREMIUM CCL EARNED REVENUE			NONPREMIUM CCL EARNED REVENUE		
	ORIGINATING	TERMINATING	TOTAL	ORIGINATING	TERMINATING	TOTAL
JAN 85	N/A	N/A	656.935	N/A	N/A	51.992
FEB 85	N/A	N/A	662.562	N/A	N/A	53.030
MAR 85	N/A	N/A	684.197	N/A	N/A	55.475
APR 85	N/A	N/A	701.296	N/A	N/A	55.110
MAY 85	N/A	N/A	703.697	N/A	N/A	49.178
JUN 85	N/A	N/A	612.479	N/A	N/A	48.161
JUL 85	N/A	N/A	624.678	N/A	N/A	45.913
AUG 85	N/A	N/A	643.335	N/A	N/A	41.770
SEP 85	N/A	N/A	638.370	N/A	N/A	41.350
OCT 85	N/A	N/A	619.324	N/A	N/A	34.271
NOV 85	N/A	N/A	579.630	N/A	N/A	34.263
DEC 85	N/A	N/A	609.816	N/A	N/A	33.997
JAN 86	N/A	N/A	623.074	N/A	N/A	29.265
FEB 86	N/A	N/A	598.604	N/A	N/A	26.734
MAR 86	N/A	N/A	646.713	N/A	N/A	25.793
APR 86	N/A	N/A	648.589	N/A	N/A	24.835
MAY 86	N/A	N/A	653.550	N/A	N/A	23.028
JUN 86	156.112	333.187	489.300	6.605	15.863	22.469
JUL 86	180.906	328.951	509.858	6.923	14.967	21.891
AUG 86	173.975	332.245	506.221	5.734	13.583	19.318
SEP 86	179.005	330.933	509.939	4.865	13.183	18.049
OCT 86	193.044	343.884	536.929	4.055	12.767	16.823
NOV 86	183.568	329.510	513.079	4.399	13.130	17.530
DEC 86	199.927	360.082	560.010	3.876	12.692	16.569
JAN 87	102.240	347.594	449.835	2.358	12.215	14.574
FEB 87	99.030	351.310	450.341	2.482	13.186	15.669
MAR 87	108.808	387.972	496.781	2.549	14.764	17.314
APR 87	106.553	373.962	480.516	2.452	13.325	15.777
MAY 87	104.121	364.916	469.038	2.158	12.803	14.962
JUN 87	111.233	380.516	491.749	1.991	13.601	15.593
JUL 87	53.927	385.349	439.277	1.037	13.024	14.062
AUG 87	49.191	386.991	436.183	0.789	12.997	13.787
SEP 87	49.670	397.370	447.041	0.778	12.770	13.549
OCT 87	51.483	418.287	469.771	0.727	12.255	12.983
NOV 87	50.183	396.218	446.402	0.675	11.542	12.218
DEC 87	55.484	430.493	485.978	0.781	11.222	12.004
JAN 88	N/A	398.764	398.764	N/A	10.777	10.777
FEB 88	N/A	407.266	407.266	N/A	10.857	10.858

TABLE 7.3

## NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.

SUPPLEMENTAL REPORT OF COMMON LINE POOL RESULTS  
 REPORTED AS OF APRIL, 1988

PAGE 1 OF 1

## N E C A CCL EARNED REVENUES

## NON-TIER 1

(REVENUE REPORTED IN MILLIONS)

MONTH/YR	PREMIUM CCL EARNED REVENUE			NONPREMIUM CCL EARNED REVENUE		
	ORIGINATING	TERMINATING	TOTAL	ORIGINATING	TERMINATING	TOTAL
JAN 85	N/A	N/A	43.435	N/A	N/A	0.439
FEB 85	N/A	N/A	43.243	N/A	N/A	0.440
MAR 85	N/A	N/A	44.445	N/A	N/A	0.472
APR 85	N/A	N/A	45.635	N/A	N/A	0.512
MAY 85	N/A	N/A	46.189	N/A	N/A	0.520
JUN 85	N/A	N/A	42.456	N/A	N/A	0.512
JUL 85	N/A	N/A	41.603	N/A	N/A	0.523
AUG 85	N/A	N/A	43.667	N/A	N/A	0.519
SEP 85	N/A	N/A	42.554	N/A	N/A	0.518
OCT 85	N/A	N/A	39.113	N/A	N/A	0.463
NOV 85	N/A	N/A	38.948	N/A	N/A	0.459
DEC 85	N/A	N/A	39.777	N/A	N/A	0.467
JAN 86	N/A	N/A	39.027	N/A	N/A	0.428
FEB 86	N/A	N/A	37.537	N/A	N/A	0.522
MAR 86	N/A	N/A	40.069	N/A	N/A	0.511
APR 86	N/A	N/A	40.116	N/A	N/A	0.522
MAY 86	N/A	N/A	41.185	N/A	N/A	0.558
JUN 86	11.150	23.406	34.556	0.138	0.330	0.469
JUL 86	11.987	21.794	33.782	0.141	0.305	0.446
AUG 86	12.127	23.130	35.258	0.158	0.375	0.534
SEP 86	11.924	22.044	33.969	0.176	0.478	0.655
OCT 86	12.298	22.285	34.584	0.160	0.508	0.669
NOV 86	12.051	21.750	33.801	0.167	0.500	0.667
DEC 86	12.541	22.571	35.114	0.157	0.517	0.675
JAN 87	6.985	23.749	30.735	0.102	0.531	0.634
FEB 87	6.233	22.113	28.347	0.090	0.482	0.573
MAR 87	6.494	23.153	29.648	0.079	0.458	0.537
APR 87	6.622	23.619	30.242	0.086	0.464	0.551
MAY 87	6.679	23.578	30.258	0.088	0.526	0.615
JUN 87	6.887	23.936	30.824	0.076	0.536	0.613
JUL 87	3.567	25.506	29.074	0.039	0.489	0.528
AUG 87	3.304	25.990	29.294	0.032	0.543	0.577
SEP 87	3.073	25.026	28.100	0.032	0.540	0.573
OCT 87	3.119	25.349	28.468	0.030	0.511	0.541
NOV 87	3.155	25.078	28.234	0.036	0.615	0.651
DEC 87	3.371	26.156	29.527	0.042	0.605	0.648
JAN 88	N/A	26.356	26.357	N/A	0.581	0.582
FEB 88	N/A	24.529	24.530	N/A	0.542	0.542

TABLE 7.4

NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.  
SUMMARY OF POOL RESULTS FOR THE MONTH ENDING DECEMBER 31, 1987  
REPORTED AS OF FEBRUARY 29, 1988

COMMON LINE (CL) (Note 1)	CURRENT MONTH	1987 POOL YEAR (Note 2)
Carrier Common Line (CCL) Earned Revenue		
Premium	\$517,986,525	\$5,928,217,883
Non-premium	\$13,025,995	\$175,656,361
Special Access Surcharge	\$7,351,762	\$106,754,938
CCL Net Realized Uncollectibles	\$512,337	\$5,038,344
CCL Net Earned Revenue	\$537,771,855	\$6,295,598,838
End User Earned Revenues	\$367,783,479	\$3,975,448,517
End User Net Realized Uncollectibles	\$1,997,681	\$20,419,338
End User Net Earned Revenues	\$365,785,798	\$3,955,029,179
Total Common Line Net Earned Revenues	\$903,557,653	\$10,160,628,017
CL Income from Interest Charged Construction	\$1,239,902	\$13,986,535
Total Common Line Revenues	\$904,797,555	\$10,174,534,552
NECA Administrative Cost	\$3,641,868	\$42,951,801
Average Schedule Company Settlements	\$21,418,782	\$260,204,251
Common Line Expenses and other Taxes	\$583,215,501	\$6,874,717,274
Common Line Adjusted Federal Income Tax	\$79,592,788	\$786,995,719
Universal Service Fund (effective 1/1/86)	\$11,464,858	\$128,741,262
Total Common Line Costs	\$699,325,797	\$8,093,610,307
Common Line Residue for Distribution (Note 3)	\$205,471,758	\$2,080,924,245
Common Line Net Investment	\$17,291,305,195	\$17,426,810,868
Annualized Common Line Residue Ratio (Note 4)		
- NEW TAX LAW	14.26%	11.94%
(Note 5)		
AS FILED - OLD TAX LAW	13.81%	11.55%

Note 1: All of the individual line items include some estimates and are subject to further adjustments under current NECA procedures.

Note 2: The 1987 pool year is for the period beginning January 1, 1987 through the CURRENT MONTH. The Net Investment is an average of the cumulative months reported.

Note 3: Residue for Distribution is Total Revenues less Total Expenses.

Note 4: Annualized Residue Ratio in the CURRENT MONTH is calculated by dividing the amount of Residue for Distribution by the amount of average Net Investment and multiplying by 12 months X 100. The annualized POOL YEAR Residue Ratios are similarly computed except that the sum of the calculation is then divided by the number of POOL YEAR reporting periods.

Note 5: NEW TAX LAW reflects pool results calculated with the effects, as reported by member companies, of the 1986 Tax Reform Act (TRA), and use of the blended tax rate of 39.95% and is the actual basis for settlements distribution. AS FILED - OLD TAX LAW, reflects NECA's estimate of what pool results would be without the adoption of the 1986 TRA, consistent with NECA's October 1986 Tariff Filing and the Commission's MOU dated December 24, 1986.

TABLE 7.4 (cont.)

NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.  
SUMMARY OF POOL RESULTS FOR THE MONTH ENDING FEBRUARY 29, 1988  
REPORTED AS OF APRIL 30, 1988

COMMON LINE (CL) (Note 1)	CURRENT MONTH	1988 POOL YEAR (Note 2)
Carrier Common Line (CCL) Earned Revenue		
Premium	\$431,603,222	\$857,107,362
Non-premium	\$11,593,011	\$22,568,415
Special Access Surcharge	\$6,686,268	\$13,746,960
CCL Net Realized Uncollectibles	\$323,717	\$1,288,112
CCL Net Earned Revenue	\$449,558,784	\$892,134,625
End User Earned Revenues	\$366,711,731	\$732,024,000
End User Net Realized Uncollectibles	\$1,786,421	\$2,311,429
End User Net Earned Revenues	\$364,925,310	\$729,712,571
Total Common Line Net Earned Revenues	\$814,484,094	\$1,621,847,196
CL Income from Interest Charged Construction	\$1,434,618	\$2,820,771
Total Common Line Revenues	\$815,918,712	\$1,624,667,967
NECA Administrative Cost	\$3,346,173	\$6,953,399
Average Schedule Company Settlements	\$22,547,154	\$45,971,133
Common Line Expenses and other Taxes	\$552,436,355	\$1,119,950,277
Common Line Adjusted Federal Income Tax	\$47,901,797	\$85,993,925
Universal Service Fund (effective 1/1/86)	\$14,705,755	\$29,411,510
Total Common Line Costs	\$640,937,224	\$1,288,279,344
Common Line Residue for Distribution (Note 3)	\$174,981,488	\$336,388,623
Common Line Net Investment	\$16,690,716,459	\$16,724,451,262
Annualized Common Line Residue Ratio (Note 4)	12.58%	12.07%

Note 1: All of the individual line items include some estimates and are subject to further adjustments under current NECA procedures.

Note 2: The 1988 pool year is for the period beginning January 1, 1988 through the CURRENT MONTH. The Net Investment is an average of the cumulative months reported.

Note 3: Residue for Distribution is Total Revenues less Total Expenses.

Note 4: Annualized Residue Ratio in the CURRENT MONTH is calculated by dividing the amount of Residue for Distribution by the amount of average Net Investment and multiplying by 12 months X 100. The annualized POOL YEAR Residue Ratios are similarly computed except that the sum of the calculation is then divided by the number of POOL YEAR reporting periods.

TABLE 7.5

NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.  
SUMMARY OF POOL RESULTS FOR THE MONTH ENDING DECEMBER 31, 1987  
REPORTED AS OF FEBRUARY 29, 1988

TRAFFIC SENSITIVE (TS) (Note 1)	CURRENT MONTH	1987 POOL YEAR (Note 2)
TS Earned Revenue	\$41,046,169	\$462,744,481
TS Net Realized Uncollectibles	\$15,009	\$64,381
TS Net Earned Revenue	\$41,031,160	\$462,680,100
TS Income From Interest Charged Construction	\$27,655	\$299,630
Total Traffic Sensitive Revenues	\$41,058,815	\$462,979,730
Average Schedule Company Settlements	\$14,608,437	\$172,966,114
TS Expenses and other Taxes	\$16,203,704	\$189,984,451
TS Adjusted Federal Income Tax	\$2,890,017	\$25,524,026
Total Traffic Sensitive Expenses	\$33,702,158	\$388,474,591
TS Residue For Distribution (Note 3)	\$7,356,657	\$74,505,139
TS Net Investment	\$566,300,039	\$560,163,467
Annualized Traffic Sensitive Residue Ratio (Note 4)		
- NEW TAX LAW (Note 5)	15.59%	13.30%
AS FILED - OLD TAX LAW	14.75%	12.73%

Note 1: All of the individual line items include some estimates and are subject to further adjustments under current NECA procedures.

Note 2: The 1987 pool year is for the period beginning January 1, 1987 through the CURRENT MONTH. The Net Investment is an average of the cumulative months reported.

Note 3: Residue for Distribution is Total Revenues less Total Expenses.

Note 4: Annualized Residue Ratio in the CURRENT MONTH is calculated by dividing the amount of Residue for Distribution by the amount of average Net Investment and multiplying by 12 months X 100. The annualized POOL YEAR Residue Ratios are similarly computed except that the sum of the calculation is then divided by the number of POOL YEAR reporting periods.

Note 5: NEW TAX LAW reflects pool results calculated with the effects, as reported by member companies, of the 1986 Tax Reform Act (TRA), and use of the blended tax rate of 39.95% and is the actual basis for settlements distribution. AS FILED - OLD TAX LAW, reflects NECA's estimate of what pool results would be without the adoption of the 1986 TRA, consistent with NECA's October 1986 Tariff Filing and the Commission's MQ+0 dated December 24, 1986.



TABLE 7.5 (cont.)

NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.  
SUMMARY OF POOL RESULTS FOR THE MONTH ENDING FEBRUARY 29, 1988  
REPORTED AS OF APRIL 30, 1988

TRAFFIC SENSITIVE (TS) (Note 1)	CURRENT MONTH	1988 POOL YEAR (Note 2)
TS Earned Revenue	\$40,075,753	\$79,718,582
TS Net Realized Uncollectibles	\$11,354	\$21,196
TS Net Earned Revenue	\$40,064,399	\$79,697,386
TS Income From Interest Charged Construction	\$12,839	\$32,689
Total Traffic Sensitive Revenues	\$40,077,238	\$79,730,075
Average Schedule Company Settlements	\$15,874,336	\$31,782,610
TS Expenses and other Taxes	\$16,561,875	\$32,423,704
TS Adjusted Federal Income Tax	\$1,448,468	\$2,959,589
Total Traffic Sensitive Expenses	\$33,884,673	\$67,165,903
TS Residue For Distribution (Note 3)	\$6,192,565	\$12,564,172
TS Net Investment	\$618,656,294	\$618,756,805
Annualized Traffic Sensitive Residue Ratio (Note 4)	12.01%	12.18%

Note 1: All of the individual line items include some estimates and are subject to further adjustments under current NECA procedures.

Note 2: The 1988 pool year is for the period beginning January 1, 1988 through the CURRENT MONTH. The Net Investment is an average of the cumulative months reported.

Note 3: Residue for Distribution is Total Revenues less Total Expenses.

Note 4: Annualized Residue Ratio in the CURRENT MONTH is calculated by dividing the amount of Residue for Distribution by the amount of average Net Investment and multiplying by 12 months X 100. The annualized POOL YEAR Residue Ratios are similarly computed except that the sum of the calculation is then divided by the number of POOL YEAR reporting periods.

## 8. Jurisdictional Shifts in Revenue Requirements

To address concerns that changes in the separations procedures might dramatically shift costs between jurisdictions and thereby lead to unanticipated or significant rate increases, the monitoring program includes the examination of jurisdictional shifts in revenue requirements that occur starting in 1988. This section discusses the monitoring efforts that will be undertaken in this area as the information becomes available.

In 1987, the Commission adopted the recommendations of the Joint Board in Docket No. 86-297 which conformed separations procedures to the revised Uniform System of Accounts and simplified those procedures. The Commission also adopted the Joint Board's recommendation that review of the jurisdictional revenue requirement shifts resulting from these changes be included in the monitoring plan. Pursuant to the Commission's decision, no formal reports from carriers on jurisdictional shifts in revenue requirements are due until March 1989. At that time, shifts occurring during calendar year 1988 will be reported by carriers.

Specifically, the Commission requested information on jurisdictional shifts in total revenue requirements that exceed 5% or more of the company's annual total revenue requirements for the study area. The shifts in revenue requirements to be reported by carriers are those resulting from conformance of the separations rules to the new accounting rules and from simplification of the separations rules. Other separations procedures changes (including those relating to central office equipment and other changes recommended by the Joint Board in Docket No. 80-286) will be excluded.

Subsequent to the Commission's adoption of the Joint Board's recommended monitoring plan, further separations issues developed. The Commission reconsidered its decision regarding the separations procedures for marketing expenses, and decided that, on an interim basis, billings for access charges should be included in the allocation factor for these expenses.<sup>1</sup> The Commission was concerned, as were the state members of the Joint Board, that the revenue requirement impact of the exclusion of access revenues from the allocation factor had not been fully tested in the conformance proceeding. The Commission referred this issue to the Joint Board in CC Docket No. 80-286 and requested that the Joint Board recommend

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1 MTS and WATS Market Structure, Amendment of Part 67 (New Part 36) of the Commission's Rules and Establishment of a Joint Board, CC Docket Nos. 78-72, 80-286, and 86-297, 2 FCC Rcd 5349 (1987) (Supplemental NPRM).

a permanent solution. 2 The Joint Board adopted an order inviting comments and request for data regarding this on May 4, 1988. 3

#### SUMMARY OF COMMENTS

We received no comments regarding jurisdictional shifts in revenue requirements during the last quarter. The following state filed projected jurisdictional revenue requirement impacts: Colorado, the District of Columbia, Idaho, Indiana, Iowa, Massachusetts, New Jersey, New York, Ohio, Washington, and Wisconsin. These will be summarized in the next monitoring report.

A summary of comments received prior to March 1988 follows. Most of these are in response to a Petition for Clarification and Reconsideration filed by Pacific Bell and Nevada Bell (the Pacific Companies) on October 28, 1987. As of the date of this report, that petition is pending before the Commission. The content of this petition is identical to the comments they filed at the same time, which were summarized in the December monitoring report.

The Pacific Companies' petition for reconsideration of the monitoring proceeding raises the issue of jurisdictional revenue requirements shifts. Specifically, the Pacific Companies request that the Commission clarify or modify its request in order to permit LECs to report simulated, rather than actual, impacts on revenue requirements of the new separations rules. The Pacific Companies propose to use modeling techniques to simulate actual revenue requirement impacts.

The Pacific Companies contend that for the LECs to calculate the actual impacts of the separations conformance and simplification, they would have to maintain costly dual accounting and separations systems for the sole purpose of complying with the reporting requirements. Specifically, the Pacific Companies argue that if the LECs are required to report actual impacts, they would have to retain (for both 1988 and 1989) the former Part 31 accounting procedures, the former Part 67 separations procedures, and

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2 In addition, petitions for reconsideration regarding other aspects of the revised separations procedures are currently pending before the Commission.

3 Amendment of Part 36 of the Commission's Rules and Establishment of a Joint Board, CC Docket No. 80-286, FCC 88J-1, released May 16, 1988.

the former access charge mechanized allocation system. The Pacific Companies also state that, to report actual data, they would have to continue to perform complex separations studies which would no longer be necessary after 1987 if they were allowed to report simulated impacts. The Pacific Companies also note that the LECs would have to maintain additional procedures to eliminate the effects of other separations changes ordered in CC Docket No. 80-286.

Several parties filed responsive pleadings. USTA supports the Pacific Companies' petition. The Ameritech Operating Companies (Ameritech) and Southwestern Bell Telephone Company (Southwestern) disagree with the Pacific Companies' interpretation of the decisions regarding the reporting requirements for jurisdictional shifts. Ameritech and Southwestern contend that the decisions of the two Joint Boards and the Commission do not require the use of dual accounting and separations procedures or prohibit the use of modeling techniques to calculate revenue requirement shifts. Ameritech and Southwestern agree, however, with the Pacific Companies' concern that the Commission clarify this issue.

Ameritech states that the use of the word "calculated" in the Monitoring Recommended Decision and Order suggests that the only actual data that LECs must analyze are those based on the new accounting and separations rules, not based on the former procedures. Ameritech asserts that the use of modeling techniques to calculate revenue requirement shifts would be fully consistent with the Joint Board's decision. Moreover, Ameritech states that if this Commission construed the monitoring plan as requiring the use of Part 31 accounting after the effective date of the replacement Part 32, that decision would violate Section 220(g) of the Communications Act, which mandates that carriers maintain one set of prescribed accounts. 4

Ameritech and Southwestern contend that the Commission demonstrated that it did not contemplate requiring dual accounting and separations procedures for reporting jurisdictional shifts when it submitted the monitoring plan for approval by the Office of Management and Budget (OMB) pursuant to the Paperwork Reduction Act. 5 In requesting such approval for the monitoring plan, the Commission advised OMB that the reporting of revenue requirement shifts would require a special study that would require approximately 120 hours to complete for each of the fifteen companies expected to report, for a total of 1,800 hours for the

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4 47 U.S.C. § 220(g).

5 44 U.S.C. § 3505.

industry.

Ameritech and Southwestern argue that the estimate supplied by the Commission to OMB clearly shows that the Commission never intended to require dual accounting and separations systems. First, Ameritech and Southwestern assert that if LECs were required to report actual impacts, no special study would be required. Second, they submit that maintenance of dual accounting and separations procedures would require much more than 120 hours to implement per company. Moreover, Ameritech asserts that OMB would not have approved the monitoring plan if it had believed that the Commission intended to impose the costly burden of maintaining dual accounting and separations systems.

Ameritech and Southwestern also assert that maintenance of a dual set of accounting procedures would be unnecessarily burdensome and costly for the LECs and their customers. 6 Southwestern further asserts that even if it were required to retain Part 31 and Part 32 accounting records, actual separated Part 31 data could not be meaningfully compared to actual separated Part 32 data because the actual Part 32 separated amounts would reflect many accounting and separations changes that the Joint Board and the Commission expressly stated should be excluded from the reported data. Therefore, Southwestern concludes, any meaningful jurisdictional shift analysis must be predicated on a computer modeling of the correlations between the former rules and the new rules as applied to actual current accounting records.

Ameritech and Southwestern contend that the costs associated with the maintenance of dual accounting and separations procedures would be greatly reduced by allowing carriers to report simulated impacts developed through a modeling technique. Ameritech urges the Commission to adopt the model developed by USTA as a guide for determining jurisdictional revenue requirement shifts. Southwestern proposes an approach using updates of the jurisdictional revenue requirement shift estimates that LECs provided to the Joint Board in CC Docket No. 86-297, which were based on a modeling approach. 7

The New York State Department of Public Service (New York) states that neither the Joint Board nor the Commission has presented an analysis of the cumulative nationwide effect of all the separations revisions that have resulted from the recent separations decisions. New York is concerned that no clear overall picture exists of the impact of the recent separations

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6 See Comments of Ameritech at 6-8; Comments of Southwestern at 4-6.

7 See Comments of Ameritech at 6-8; Comments of Southwestern at 4-6.

changes adopted by the Joint Boards in CC Docket Nos. 80-286 and 86-297. New York believes that the monitoring proceeding would be the ideal vehicle to develop such an analysis because the cumulative effects of all separations changes are directly related to the issues subject to monitoring over the next five years. Therefore, New York suggests that the monitoring program be amended to include consideration of the jurisdictional revenue requirement impact of the recent changes adopted by the Joint Board in CC Docket No. 80-286 and of depreciation reserve deficiencies. New York presents a proposal for the calculation of these cumulative separations effects. 8

New York contends that neither the Joint Board nor the Commission has addressed the revenue requirement impact resulting from changes in the allocation of depreciation reserve deficiencies. New York maintains that the recent changes in jurisdictional allocation factors for plant investment could shift substantial reserve deficiencies from the interstate jurisdiction to the state jurisdiction. New York also contends that although some states require the amortization of reserve deficiencies over a specified period of time, those reserve deficiencies may not be fully amortized as scheduled, in light of the revenue requirement shift to the state jurisdiction that may result from recent separations changes. New York is concerned that any additional costs incurred by the state jurisdiction and any additional revenue requirement shifted to the state jurisdiction be fully recognized and quantified. It therefore requests that the monitoring program be amended to include such information.

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8 See Comments of New York at 4.