

Monitoring Report

CC Docket No. 87-339

July 1991

Prepared by the Staff of the

Federal-State Joint Board

In CC Docket No. 80-286

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Introduction and Summary

This is the twelfth report of a series of reports being issued over a five-year period that is intended to help telecommunications policymakers and the general public monitor the impact of decisions adopted by the Federal Communications Commission (Commission) during 1987. In 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 an Order released on June 30, 1989, the Commission reduced the frequency of the reports from quarterly to semi-annually, and changed the release dates to January and July.¹ The reports will continue through July 1992.

In an Order released on August 26, 1987, the Commission acted upon the recommendations of the Joint Board in CC Docket No. 80-286 and established a program to monitor the impact of the decisions noted above. This report presents currently available data in each of the seven 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; and (7) pooling and rate deaveraging. In an Order released in March 1990, the Common Carrier Bureau concluded that no further reports were necessary in what was formerly the eighth section of the monitoring reports, jurisdictional shifts in revenue requirements.² Therefore, that section has been deleted from this and future reports.

Since our January 1991 monitoring report, new information in each of the seven categories we are monitoring has become available and is incorporated in this report. We do not repeat here much of the material that was contained in our previous report. Section 1 includes new subscribership information for March 1991. Section 2 includes updated information on the lifeline and Link-Up America programs, including new information supplied by the National Exchange Carrier Association (NECA).

1 Establishment of a Program to Monitor the Impact of Joint Board Decisions, CC Docket No. 87-339, Order, 4 FCC Rcd 5480 (1989).

2 That section was the result of a decision in CC Docket No. 86-297 to simplify jurisdictional separations rules and conform those rules to the recently revised Uniform System of Accounts.

Section 3 includes a history of universal service fund payments. Section 4 includes revised usage data by company for non-tier 1 companies. Section 5 includes Consumer Price Index (CPI) and Producer Price Index (PPI) data through June 1991, and other updated rate information. Section 6 includes a summary of the bypass reports filed in April. Section 7 includes updated estimates of the effects of depooling.

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. Comments that have been received since the last report are summarized in each section of the report, insofar as they relate to that section.

The Monitoring Report has not revealed to date any harmful effects of the Commission decisions on the variables we have chosen to evaluate. However, this report has proven to be valuable in more ways than merely reporting the effects of regulatory changes. The Monitoring Report brings together in one place a wealth of information on our national telecommunications system, including valuable breakdowns by state and by company.

On July 25, 1991, the Chief of the Common Carrier Bureau released a request for comments ³ on a Joint Board staff proposal that the Monitoring Report continue to be published in a modified form for an additional five years beyond the end of the current monitoring program in 1992. The staff proposal includes the elimination of the sections on bypass and jurisdictional shifts, the modification of some of the information requested in other sections, and the addition of two new sections. The first new section would be on revenues, expenses and investment, and the other new section would be on infrastructure and new services that will monitor the deployment of new and experimental services and technologies. Comments on this proposal are due on September 5, 1991, and reply comments are due on September 26, 1991.

The deadline for submission of information for each future monitoring report is the first day of the month preceding the one in which the report is released. Despite this deadline, the staff intends to report all filings made in the docket at the earliest possible time. 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

3 Amendment of Part 36 of the Commission's Rules and Establishment of a Joint Board, Establishment of a Program to Monitor the Impact of Joint Board Decisions, CC Docket Nos. 80-286 and 87-339, DA 91-889, Request for Comments, released July 25, 1991.

Reference Room of the Common Carrier Bureau's Industry Analysis Division,⁴ where copies of all materials filed in the docket are available for public reference.

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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 the aggregate effects of Commission actions on households' decisions to maintain, acquire or drop telephone service. This section presents comprehensive data on telephone penetration statistics collected by the Bureau of the Census under contract with the Federal Communications Commission. Along with telephone penetration statistics for the United States and each of the states from November 1983 to March 1991, data are provided on penetration based on various demographic characteristics.

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. Prior to the 1980s, precise measurements of telephone subscribership received little attention. 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 Current Population Survey 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 differences in the sampling methodologies exist 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.

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, changes in telephone penetration between consecutive reports of less than or equal to 0.5% are likely to be due to sampling error and cannot be regarded as statistically significant. As explained below, when comparing the same month in two consecutive years, changes of less than or equal to 0.4% are not statistically significant. When comparing annual averages, changes of less than 0.3% are not statistically significant. The annual averages are the average of the 3 surveys of the year in question. For individual states or other subgroups of the U.S. population, the amount of sampling variability is much greater.

The data in this section are not seasonally adjusted. Seasonal analysis of the data indicates that, for the nation as a whole, there is no significant seasonal variation in the "telephone available" statistics. There is, however, a significant seasonal pattern in the "telephone in unit" statistics. This pattern, after allowing for the effects of the upward trend in the data, is an increase of 0.3% from November to March, followed by a decrease of 0.1% from March to July, followed by a decrease of 0.2% from July to November.

Census Bureau figures for March 1991, the most recent data available, show that the percentage of households subscribing to telephone service is 93.6%, which is up 0.3% from March 1990. As a result of an increasing percentage of subscribership and an increasing number of households, 1.3 million households were added to the nation's telephone system between March 1990 and March 1991. The latest penetration rate is the highest ever reported by the CPS.

This section includes figures showing subscribership percentages by state, by householder's age and race, by household size, by family income, and for individual adults by labor force status. The data for individual adults show that 94.5% of those adults in the civilian noninstitutionalized population have a telephone in their household. This figure is up 0.3% from the March 1990 level. This is also the highest penetration rate ever reported by the CPS.

This section contains eleven tables and four charts presenting penetration statistics broken out for various geographic and demographic characteristics.

Table 1.1 summarizes the telephone penetration for the United States, combining information on the number of households with the penetration rates.

Chart 1.1 depicts the nationwide penetration rates for households graphically over time. The values in this chart are taken from the top line of Table 1.2.

Chart 1.2 depicts the states with March 1991 penetration rates ranking in the highest third, middle third, and lowest third. These are based on the "Unit" data in Table 1.2.

Chart 1.3 depicts changes in household penetration rates by state between November 1983 and March 1991. These are based on the "Unit" data in Table 1.2 and the corresponding critical values in Table 1.7. States with statistically significant increases are shown, along with other states with increases and states with decreases. No state had a statistically significant decrease.

Table 1.2 shows the Current Population Survey responses for the United States and for each state for every four months beginning with November 1983. Because the Current Population Survey 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 first question was "yes". The column headed "Avail." indicates the percentage of households which responded "yes" to either the first or the second question.

Table 1.3 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 1.4 shows the nationwide penetration rates for households by family income and the race of the householder. It shows a strong relationship between income and penetration. Caution should be taken in comparing these figures over time, because these income levels are not adjusted for inflation. Thus the same nominal income level at two points in time will reflect different real incomes in terms of purchasing power.

Table 1.5 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.

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 individual adults 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 1.4 depicts the nationwide penetration rates for individual adults graphically over time, with the values taken from the totals in Table 1.6.

Tables 1.7 through 1.11 present the critical values at the 95% confidence level for testing the statistical significance of changes over time in the earlier tables. These critical values 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. 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. 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 0.8 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 averages are based on three surveys and hence have a lower standard error.

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
July 1988	92.4	85.7	92.8	6.7	7.2
November 1988	92.6	85.7	92.5	6.9	7.5
March 1989	93.6	87.0	93.0	6.6	7.0
July 1989	93.8	87.5	93.3	6.3	6.7
November 1989	93.9	87.3	93.0	6.6	7.0
March 1990	94.2	87.9	93.3	6.3	6.7
July 1990	94.8	88.4	93.3	6.4	6.7
November 1990	94.7	88.4	93.3	6.3	6.7
March 1991	95.3	89.2	93.6	6.1	6.4

CHART 1.1

Telephone Penetration

Households

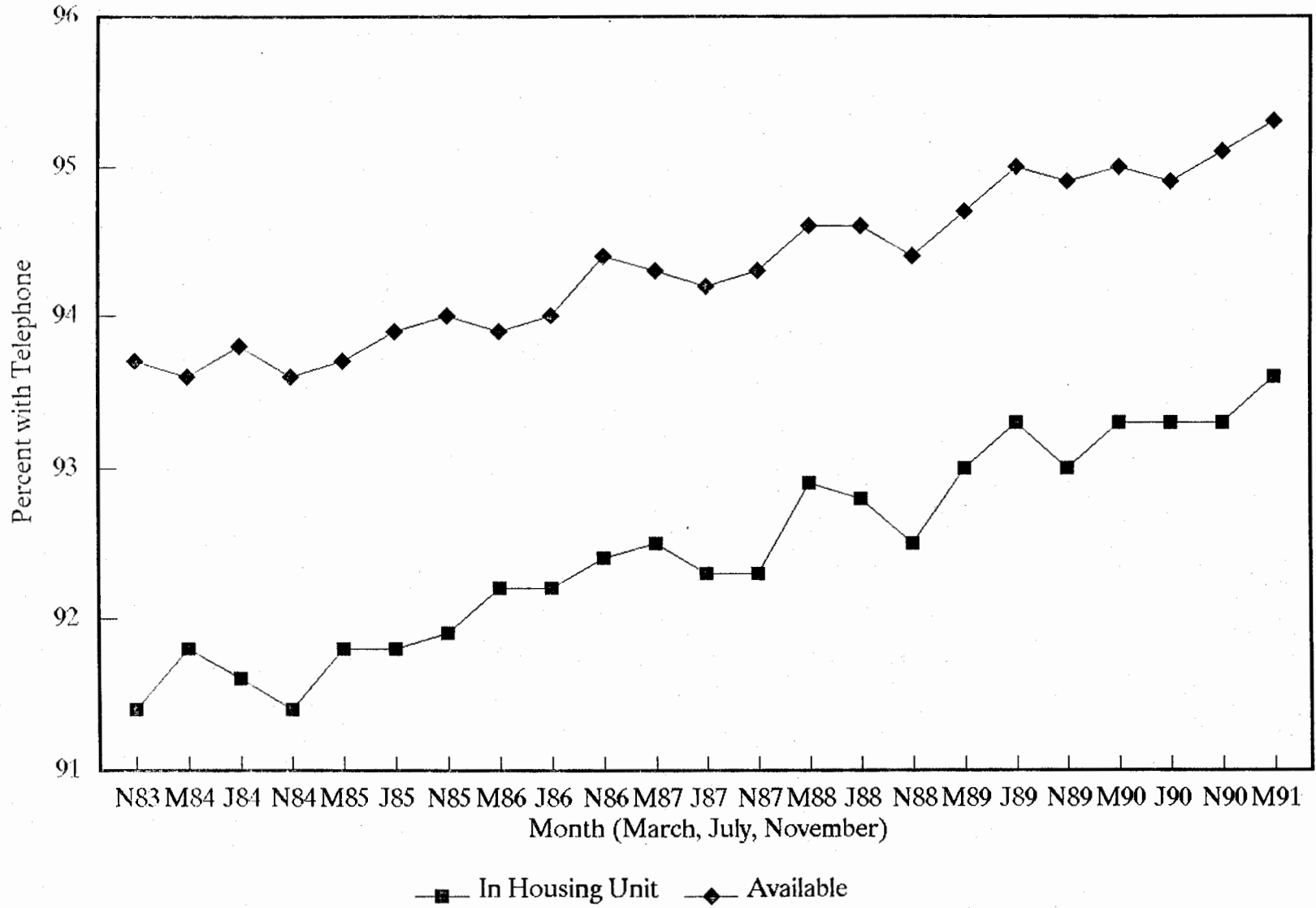
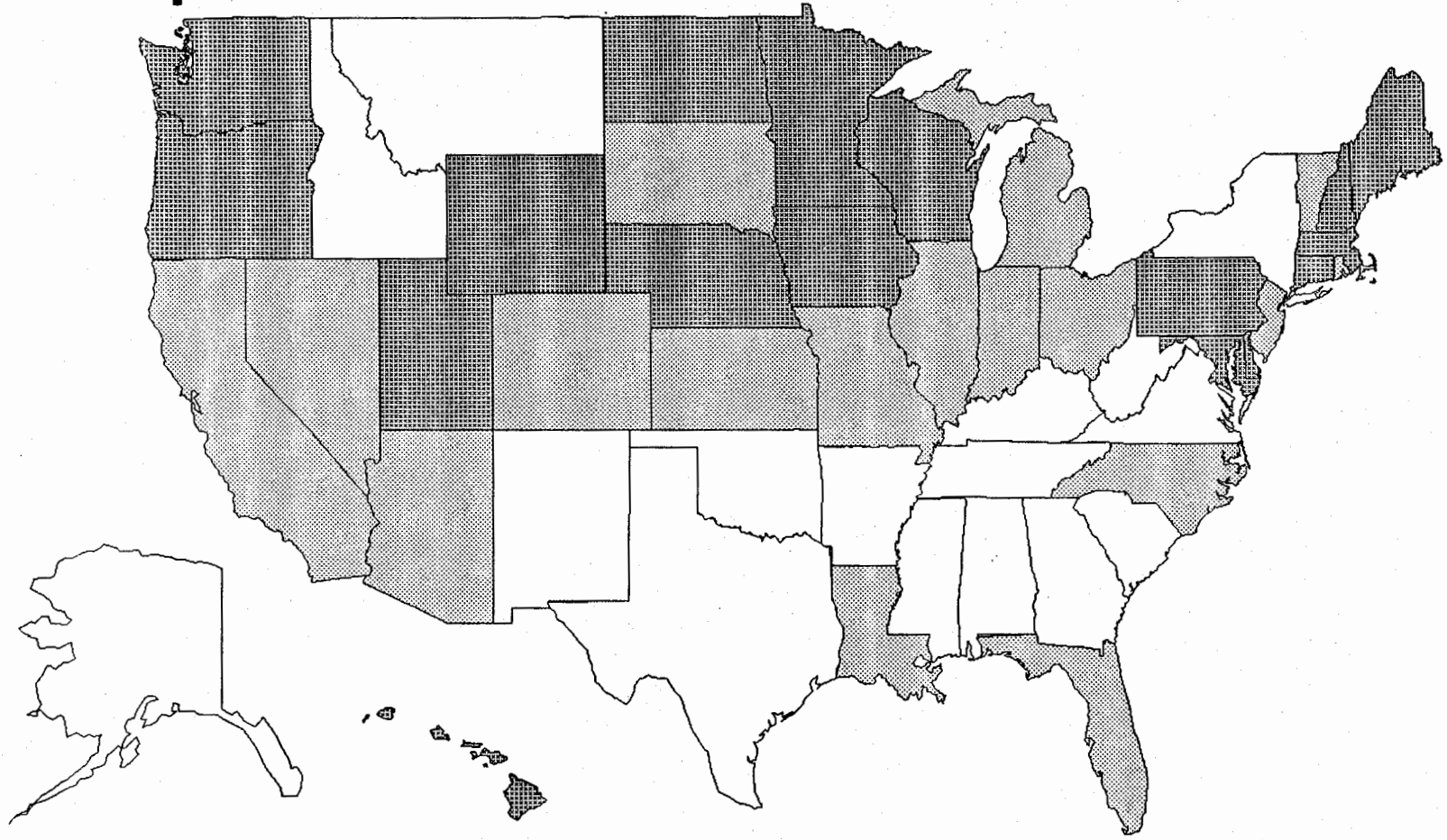


CHART 1.2

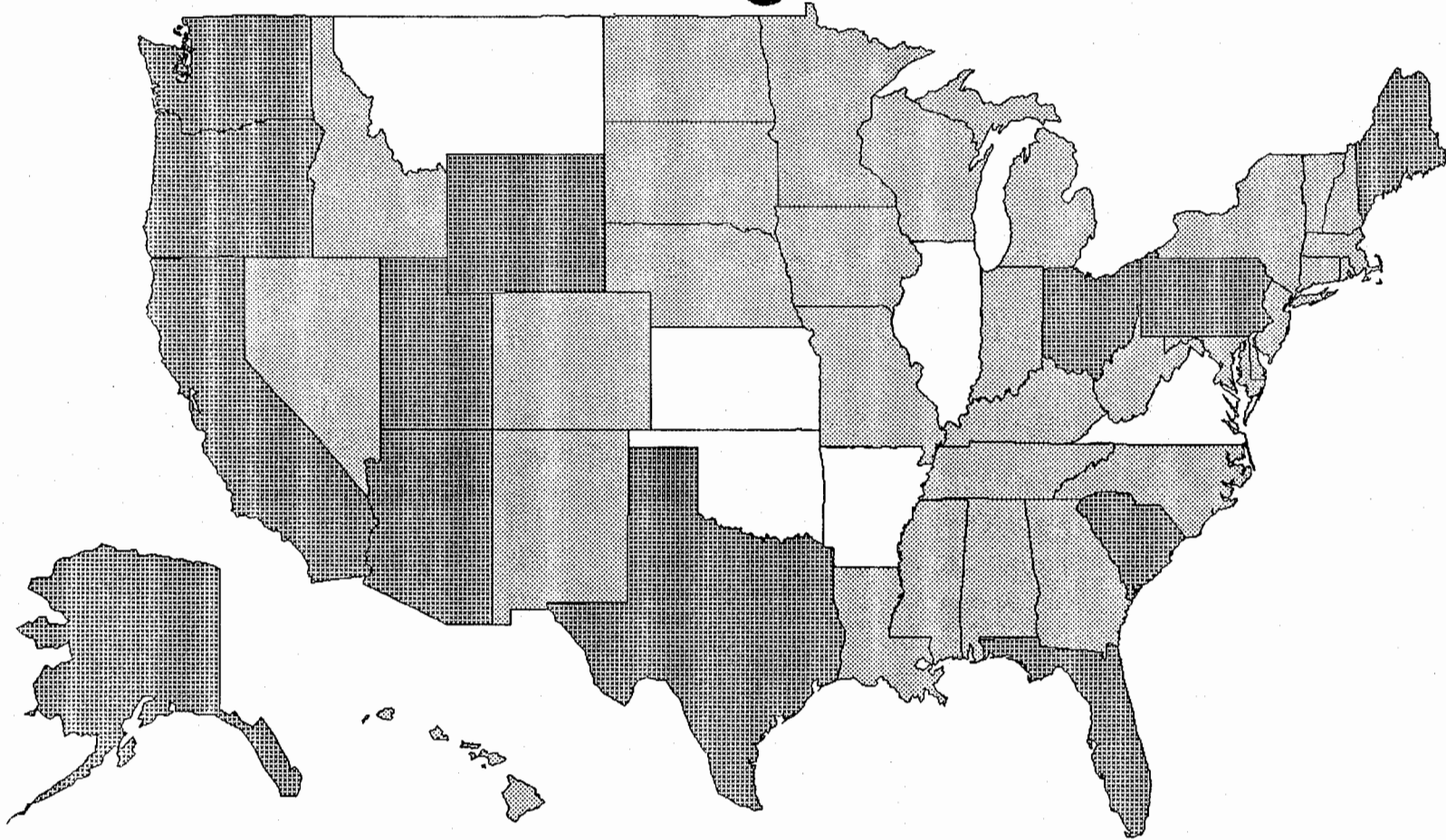
Telephone Penetration March 1991



□ below 92.5% ■ 92.5 - 95.0% ■ above 95.0%

CHART 1.3

Penetration Changes 11/83-3/91



□ Decrease ■ Increase ■ Significant Increase

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY STATE - TABLE 1.2

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

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY STATE - TABLE 1.2

	1984		1985					
	ANNUAL AVERAGE		MARCH		JULY		NOVEMBER	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
UNITED STATES	91.6	93.7	91.8	93.7	91.8	93.9	91.9	94.0
ALABAMA	88.4	90.5	88.4	90.3	89.1	90.9	89.9	91.8
ALASKA	86.5	89.0	89.4	91.7	86.4	88.0	85.7	88.7
ARIZONA	86.9	89.4	87.0	89.4	88.0	89.8	86.9	89.8
ARKANSAS	86.6	90.6	85.7	89.8	86.6	90.8	85.5	89.2
CALIFORNIA	92.5	93.8	93.0	94.1	92.7	94.1	93.0	94.1
COLORADO	93.2	95.4	96.2	97.7	93.7	95.9	93.1	95.0
CONNECTICUT	95.5	97.0	94.9	97.2	96.5	97.6	97.1	98.0
DELAWARE	94.3	95.7	96.6	97.4	94.4	96.1	93.4	95.2
DIST OF COLUMBIA	94.9	96.3	91.6	93.5	93.6	94.9	95.6	97.4
FLORIDA	88.7	91.3	88.8	90.9	89.5	91.6	90.3	92.7
GEORGIA	86.2	89.1	89.0	91.1	88.4	90.2	85.4	88.0
HAWAII	93.5	94.9	93.3	95.1	92.7	95.8	93.1	94.2
IDAHO	90.7	91.7	91.7	93.3	91.1	92.7	92.6	93.5
ILLINOIS	94.2	95.8	94.4	95.6	93.4	95.3	93.3	95.2
INDIANA	91.6	93.6	91.7	94.8	92.8	95.0	92.4	94.3
IOWA	96.2	97.4	96.0	96.9	94.6	96.4	94.7	95.9
KANSAS	94.3	95.8	94.8	97.1	93.9	95.9	94.4	96.2
KENTUCKY	88.1	91.0	89.0	92.1	86.8	90.3	86.4	90.8
LOUISIANA	89.7	92.7	90.5	93.5	90.3	94.0	90.2	93.4
MAINE	93.4	95.3	94.2	95.3	93.8	95.2	94.2	96.2
MARYLAND	95.7	96.5	95.2	96.2	96.2	98.1	95.3	95.9
MASSACHUSETTS	95.9	96.9	95.6	96.7	95.0	95.9	94.8	96.5
MICHIGAN	92.8	94.5	92.6	94.1	93.5	94.7	92.6	93.7
MINNESOTA	95.8	97.1	97.1	98.2	96.8	97.4	95.3	96.7
MISSISSIPPI	82.4	87.5	81.6	87.0	80.1	88.7	81.0	87.0
MISSOURI	91.5	93.7	92.6	94.2	92.9	95.2	92.0	95.0
MONTANA	91.0	94.0	92.2	95.2	90.0	91.4	92.0	95.1
NEBRASKA	95.7	96.8	96.4	96.9	95.0	96.3	94.6	96.7
NEVADA	90.4	92.8	91.3	93.6	90.3	92.8	94.0	95.1
NEW HAMPSHIRE	94.3	95.8	93.4	94.4	93.0	94.2	93.4	95.4
NEW JERSEY	94.8	96.1	95.1	96.5	95.4	96.5	94.1	95.5
NEW MEXICO	82.0	87.0	85.0	88.0	85.1	88.8	82.1	87.8
NEW YORK	91.8	93.6	92.0	93.1	91.2	93.1	93.0	94.5
NORTH CAROLINA	88.3	91.9	89.8	92.2	89.2	92.7	89.2	92.2
NORTH DAKOTA	94.6	96.8	95.0	96.1	95.1	96.7	95.7	97.4
OHIO	92.4	94.4	91.7	94.7	93.3	95.1	91.7	93.8
OKLAHOMA	90.3	92.5	90.3	92.7	87.0	89.6	89.2	92.6
OREGON	90.6	92.3	89.2	91.0	91.0	93.2	90.6	92.0
PENNSYLVANIA	94.9	96.5	94.2	95.5	95.8	96.8	95.8	97.5
RHODE ISLAND	93.6	94.6	93.4	94.4	95.1	96.4	93.6	94.5
SOUTH CAROLINA	83.7	87.7	87.2	90.6	85.6	90.5	87.6	90.4
SOUTH DAKOTA	93.2	94.9	92.4	94.5	93.1	94.2	92.2	94.9
TENNESSEE	88.5	92.0	87.7	90.0	88.3	91.8	91.9	95.9
TEXAS	88.4	91.6	87.8	91.5	87.7	91.6	88.9	91.8
UTAH	92.5	94.2	95.3	95.7	93.3	95.1	93.2	94.5
VERMONT	92.3	94.0	90.6	91.8	93.0	94.4	95.1	96.2
VIRGINIA	93.1	95.1	92.8	94.5	90.4	92.3	92.0	94.5
WASHINGTON	93.0	94.4	92.7	94.4	96.1	97.5	95.3	96.6
WEST VIRGINIA	87.7	91.8	88.1	91.4	88.7	92.8	86.1	90.8
WISCONSIN	95.2	96.6	93.8	95.7	94.4	95.5	94.1	95.0
WYOMING	89.9	92.8	91.7	94.2	92.7	93.8	95.7	96.7

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY STATE - TABLE 1.2

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

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY STATE - TABLE 1.2

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

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY STATE – TABLE 1.2

	1987		1988					
	ANNUAL AVERAGE		MARCH		JULY		NOVEMBER	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
UNITED STATES	92.4	94.2	92.9	94.6	92.8	94.6	92.5	94.4
ALABAMA	87.5	89.6	88.4	89.6	86.5	89.2	86.9	90.2
ALASKA	87.8	90.2	87.2	89.4	88.2	90.3	87.3	90.0
ARIZONA	88.6	90.7	90.5	92.5	91.2	91.9	90.2	92.4
ARKANSAS	86.3	90.7	83.6	87.7	87.5	92.1	87.3	90.9
CALIFORNIA	93.8	95.0	94.7	95.6	94.0	95.1	94.5	95.8
COLORADO	92.9	95.5	95.1	96.3	94.1	95.7	92.2	94.1
CONNECTICUT	97.0	98.0	96.5	99.0	97.6	98.4	94.8	99.3
DELAWARE	96.5	97.3	97.2	98.4	97.4	98.2	96.3	97.2
DIST OF COLUMBIA	92.4	94.2	93.3	95.2	94.4	95.3	96.1	97.3
FLORIDA	91.7	93.8	93.0	94.7	92.8	94.8	92.2	94.1
GEORGIA	88.7	91.3	91.5	93.2	90.4	92.5	88.4	91.7
HAWAII	94.2	96.6	95.3	96.2	92.2	95.0	95.9	97.8
IDAHO	91.1	92.5	92.9	93.1	91.9	93.6	91.9	93.2
ILLINOIS	93.7	95.2	94.3	95.6	94.0	95.9	94.1	95.3
INDIANA	91.2	93.2	91.4	94.2	92.8	95.3	92.8	95.3
IOWA	95.1	96.3	94.5	96.2	96.6	97.8	95.1	96.6
KANSAS	95.2	96.6	95.3	95.9	94.0	96.2	93.9	95.0
KENTUCKY	86.5	90.6	89.5	92.2	86.8	90.1	86.3	90.3
LOUISIANA	87.5	90.8	86.8	90.1	87.8	91.9	87.3	91.4
MAINE	93.5	95.2	94.3	95.3	93.5	96.0	94.7	96.3
MARYLAND	95.4	96.6	96.4	97.4	96.0	96.9	95.4	97.2
MASSACHUSETTS	96.4	97.0	97.3	97.7	97.1	97.5	96.4	96.8
MICHIGAN	93.7	94.8	94.4	95.5	93.6	94.9	93.8	94.7
MINNESOTA	96.0	97.4	97.3	98.3	97.3	98.0	97.1	98.9
MISSISSIPPI	81.5	86.3	83.8	88.9	83.7	88.7	82.5	88.1
MISSOURI	93.0	95.3	93.0	95.5	95.5	96.4	92.0	94.8
MONTANA	90.9	93.9	91.4	93.2	91.5	94.0	92.3	95.3
NEBRASKA	94.6	96.1	96.4	96.9	95.3	96.0	94.6	95.5
NEVADA	92.4	93.7	91.8	92.8	92.6	93.7	93.0	93.9
NEW HAMPSHIRE	94.1	96.2	96.5	97.1	94.8	95.4	94.5	95.9
NEW JERSEY	95.0	96.3	94.3	96.0	94.8	96.3	94.1	95.3
NEW MEXICO	86.0	89.3	85.9	89.1	85.5	87.8	85.6	90.5
NEW YORK	92.7	94.2	93.0	94.4	91.6	93.5	92.5	94.1
NORTH CAROLINA	89.2	91.7	90.1	92.7	91.2	92.9	89.9	92.8
NORTH DAKOTA	96.8	97.4	96.7	97.9	95.8	96.4	97.9	98.1
OHIO	93.4	94.7	94.0	94.9	95.1	96.1	94.0	94.8
OKLAHOMA	88.7	91.8	89.6	92.0	87.4	90.0	89.6	92.8
OREGON	93.3	94.8	89.4	91.8	94.4	95.0	92.2	93.8
PENNSYLVANIA	96.4	97.3	96.1	97.2	96.8	97.5	95.7	96.6
RHODE ISLAND	95.2	96.3	95.4	96.7	94.4	95.5	96.5	97.3
SOUTH CAROLINA	87.7	90.6	88.3	91.6	87.4	91.1	89.7	91.6
SOUTH DAKOTA	92.8	95.0	92.2	95.0	92.9	95.8	93.7	95.4
TENNESSEE	89.2	92.6	91.7	94.7	90.4	93.1	88.8	92.8
TEXAS	89.5	92.2	87.8	90.6	89.1	92.2	88.5	91.0
UTAH	92.3	94.6	93.0	93.7	91.4	95.4	93.1	94.3
VERMONT	95.3	96.9	95.9	97.2	95.4	96.5	95.6	96.6
VIRGINIA	92.5	94.6	94.7	96.2	91.4	95.2	92.5	95.0
WASHINGTON	94.3	96.4	93.4	94.9	95.2	96.4	94.2	95.6
WEST VIRGINIA	87.8	91.5	87.9	92.1	85.8	90.1	88.4	92.0
WISCONSIN	96.4	97.1	95.9	97.4	97.2	97.9	98.0	98.7
WYOMING	92.3	94.1	93.6	94.6	94.3	95.9	91.3	92.7

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY STATE - TABLE 1.2

	1988		1989					
	ANNUAL AVERAGE		MARCH		JULY		NOVEMBER	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
UNITED STATES	92.7	94.5	93.0	94.7	93.3	95.0	93.0	94.9
ALABAMA	87.3	89.6	90.4	91.3	89.8	91.7	86.9	91.0
ALASKA	87.6	89.9	84.1	87.1	88.3	91.4	87.9	91.3
ARIZONA	90.6	92.3	90.5	92.0	91.9	93.2	92.4	94.4
ARKANSAS	86.1	90.2	84.0	89.0	89.5	92.7	88.9	91.4
CALIFORNIA	94.4	95.5	94.6	95.8	95.5	96.3	94.8	95.8
COLORADO	93.8	95.4	96.0	96.6	93.6	95.7	94.2	95.8
CONNECTICUT	96.3	98.9	97.4	98.0	98.4	98.6	98.6	98.9
DELAWARE	97.0	97.9	95.3	95.9	97.3	98.3	97.4	98.2
DIST OF COLUMBIA	94.6	95.9	95.1	96.3	91.0	93.7	92.0	94.5
FLORIDA	92.7	94.5	91.7	93.2	93.1	95.2	93.8	95.1
GEORGIA	90.1	92.4	90.5	93.2	90.8	93.9	89.3	91.6
HAWAII	94.5	96.3	95.9	96.9	92.9	96.1	96.4	97.7
IDAHO	92.2	93.3	92.3	93.3	92.5	93.3	92.8	94.2
ILLINOIS	94.2	95.6	94.5	95.9	93.2	94.8	93.9	95.6
INDIANA	92.3	94.9	93.4	97.6	94.2	96.2	92.1	94.0
IOWA	95.4	96.9	97.1	98.0	95.4	97.3	96.5	97.1
KANSAS	94.4	95.7	94.6	96.4	94.2	96.2	94.4	95.0
KENTUCKY	87.5	90.9	89.5	93.1	89.0	92.8	88.3	92.3
LOUISIANA	87.3	91.1	90.5	92.5	88.3	91.8	86.9	89.7
MAINE	94.2	95.9	95.0	95.9	95.8	97.0	94.9	96.5
MARYLAND	95.9	97.2	96.0	97.6	94.4	96.3	94.5	96.0
MASSACHUSETTS	96.9	97.3	96.6	97.5	97.7	98.2	97.0	97.8
MICHIGAN	93.9	95.0	94.4	95.2	94.3	95.3	92.6	94.3
MINNESOTA	97.2	98.4	96.7	97.6	95.7	97.1	98.0	98.7
MISSISSIPPI	83.3	88.6	84.4	88.8	85.6	90.5	86.6	91.6
MISSOURI	93.5	95.6	90.9	93.7	91.2	93.3	90.9	93.2
MONTANA	91.7	94.2	92.6	94.6	90.1	94.5	92.3	93.9
NEBRASKA	95.4	96.1	96.1	97.4	96.1	97.2	93.4	94.3
NEVADA	92.4	93.4	91.5	91.8	93.1	94.2	93.5	94.0
NEW HAMPSHIRE	95.2	96.1	95.9	96.5	96.4	98.2	94.0	96.8
NEW JERSEY	94.4	95.9	94.9	95.8	94.5	96.1	95.1	96.3
NEW MEXICO	85.7	89.1	86.9	90.5	85.5	87.9	85.0	90.3
NEW YORK	92.4	94.0	93.1	94.6	92.1	94.0	91.8	93.5
NORTH CAROLINA	90.4	92.8	92.0	94.2	91.9	93.9	91.8	94.1
NORTH DAKOTA	96.8	97.5	96.5	98.1	97.5	98.2	97.0	97.8
OHIO	94.4	95.2	94.4	95.2	95.4	96.3	94.2	95.1
OKLAHOMA	88.9	91.6	86.7	89.4	89.2	91.2	88.7	93.1
OREGON	92.0	93.5	89.5	91.9	94.2	95.4	93.0	94.6
PENNSYLVANIA	96.2	97.1	96.8	97.2	96.9	97.4	97.2	97.9
RHODE ISLAND	95.4	96.5	95.3	96.1	96.9	97.9	94.0	94.8
SOUTH CAROLINA	88.5	91.4	87.2	89.5	88.8	92.1	87.4	90.9
SOUTH DAKOTA	92.9	95.4	93.3	94.7	93.7	95.2	92.8	94.9
TENNESSEE	90.3	93.5	92.8	95.0	91.3	94.3	91.6	95.9
TEXAS	88.5	91.3	87.8	90.4	88.8	91.5	89.8	92.9
UTAH	92.5	94.5	95.9	95.9	95.6	96.3	96.3	97.5
VERMONT	95.6	96.8	95.7	96.7	93.4	95.7	92.7	94.8
VIRGINIA	92.9	95.5	92.4	94.9	93.1	96.2	94.0	96.2
WASHINGTON	94.3	95.7	96.5	97.4	97.6	98.0	95.1	96.4
WEST VIRGINIA	87.3	91.4	87.7	91.3	84.3	87.5	88.4	92.0
WISCONSIN	97.0	98.0	96.8	98.2	97.7	98.9	97.5	98.0
WYOMING	93.0	94.4	95.3	96.7	93.8	96.5	91.8	93.4

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY STATE - TABLE 1.2

	1989		1990					
	ANNUAL AVERAGE		MARCH		JULY		NOVEMBER	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
UNITED STATES	93.1	94.9	93.3	95.0	93.3	94.9	93.3	95.1
ALABAMA	89.0	91.3	88.4	89.3	90.9	92.2	89.3	91.8
ALASKA	86.8	89.9	89.9	92.9	88.6	92.4	89.4	92.5
ARIZONA	91.6	93.2	91.1	93.8	93.4	95.0	94.5	96.7
ARKANSAS	87.5	91.0	88.1	91.7	89.7	92.0	88.4	92.1
CALIFORNIA	94.9	96.0	94.4	95.7	94.6	95.3	94.8	95.6
COLORADO	94.6	96.0	93.9	96.1	94.9	96.1	95.2	96.6
CONNECTICUT	98.1	98.5	97.3	97.6	97.7	97.8	96.4	97.6
DELAWARE	96.6	97.5	95.8	96.9	96.3	96.8	95.8	97.6
DIST OF COLUMBIA	92.7	94.8	92.9	93.4	89.7	92.8	91.7	93.3
FLORIDA	92.9	94.5	92.3	94.5	93.7	95.0	93.1	95.3
GEORGIA	90.2	92.9	90.7	93.7	90.6	92.1	91.5	94.4
HAWAII	95.1	96.9	96.7	97.6	94.2	95.9	95.1	96.9
IDAHO	92.5	93.6	93.1	95.2	91.8	92.9	93.5	94.3
ILLINOIS	93.9	95.4	94.5	95.9	93.8	95.1	94.6	96.0
INDIANA	93.2	95.9	92.3	95.2	94.6	97.2	91.6	95.3
IOWA	96.3	97.5	97.1	97.8	95.2	96.1	96.0	96.7
KANSAS	94.4	95.8	95.6	97.2	95.7	96.3	94.9	96.0
KENTUCKY	88.9	92.7	90.4	93.3	88.1	93.0	88.8	93.6
LOUISIANA	88.6	91.3	90.4	92.0	88.9	91.3	89.0	92.7
MAINE	95.3	96.4	96.5	97.7	94.6	97.7	96.0	97.5
MARYLAND	95.0	96.6	95.4	96.7	95.2	96.4	95.6	96.9
MASSACHUSETTS	97.1	97.8	96.6	97.1	96.5	97.3	96.7	97.8
MICHIGAN	93.7	94.9	94.1	95.7	93.7	95.0	94.5	95.9
MINNESOTA	96.8	97.8	96.5	97.5	96.2	97.9	98.1	98.9
MISSISSIPPI	85.5	90.3	87.5	90.8	85.0	90.3	88.4	91.7
MISSOURI	91.0	93.4	91.9	95.2	92.5	94.9	91.7	95.8
MONTANA	91.7	94.3	91.7	93.6	92.7	94.9	91.7	94.0
NEBRASKA	95.2	96.3	95.8	96.6	96.3	96.9	96.5	97.9
NEVADA	92.7	93.3	94.1	94.4	91.0	92.5	92.8	93.9
NEW HAMPSHIRE	95.4	97.1	95.9	96.9	95.5	96.8	93.6	95.7
NEW JERSEY	94.8	96.1	95.5	96.5	94.3	95.5	94.2	95.6
NEW MEXICO	85.8	89.6	86.5	90.5	86.2	89.7	84.5	88.3
NEW YORK	92.3	94.0	90.6	92.5	91.5	93.1	91.2	92.7
NORTH CAROLINA	91.9	94.1	92.3	94.5	92.0	94.4	91.5	93.8
NORTH DAKOTA	97.0	98.0	96.7	97.9	97.0	97.9	97.2	97.8
OHIO	94.6	95.5	95.9	96.9	94.1	95.8	95.5	96.1
OKLAHOMA	88.2	91.2	90.4	93.8	88.4	92.0	89.6	92.2
OREGON	92.3	93.9	92.8	94.3	95.4	97.0	95.4	96.5
PENNSYLVANIA	97.0	97.5	96.7	97.5	97.3	98.1	96.6	97.2
RHODE ISLAND	95.4	96.3	94.8	95.9	95.5	96.0	96.5	97.4
SOUTH CAROLINA	87.8	90.8	89.6	92.9	89.4	92.6	91.7	94.2
SOUTH DAKOTA	93.3	95.0	94.4	96.3	93.3	95.1	92.5	94.4
TENNESSEE	91.9	95.1	92.1	93.8	91.8	94.3	90.9	94.0
TEXAS	88.8	91.6	90.0	92.4	89.2	91.6	89.2	92.0
UTAH	95.9	96.5	96.5	97.0	94.2	95.1	96.2	96.8
VERMONT	93.9	95.7	96.8	97.6	92.4	95.7	95.6	97.5
VIRGINIA	93.2	95.7	93.4	95.4	93.8	95.3	92.0	94.0
WASHINGTON	96.4	97.3	97.2	97.7	97.2	98.0	96.9	97.3
WEST VIRGINIA	86.8	90.3	88.6	92.4	87.2	91.9	86.8	90.6
WISCONSIN	97.3	98.4	96.5	97.2	97.3	97.9	96.9	98.1
WYOMING	93.6	95.5	95.1	96.5	94.7	95.7	92.6	95.6

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY STATE - TABLE 1.2

	1990		1991	
	ANNUAL AVERAGE		MARCH	
	Unit	Avail	Unit	Avail
UNITED STATES	93.3	95.0	93.6	95.3
ALABAMA	89.5	91.1	90.3	93.0
ALASKA	89.3	92.6	89.7	93.1
ARIZONA	93.0	95.1	93.7	94.8
ARKANSAS	88.7	91.9	88.1	91.9
CALIFORNIA	94.6	95.5	95.0	95.9
COLORADO	94.7	96.3	94.4	97.0
CONNECTICUT	97.1	97.7	97.2	97.6
DELAWARE	96.0	97.1	96.9	97.7
DIST OF COLUMBIA	91.4	93.2	91.9	92.0
FLORIDA	93.0	94.9	93.0	94.7
GEORGIA	90.9	93.4	91.0	92.4
HAWAII	95.3	96.8	95.2	96.2
IDAHO	92.8	94.1	91.7	94.4
ILLINOIS	94.3	95.7	93.7	95.4
INDIANA	92.8	95.9	92.7	95.5
IOWA	96.1	96.9	95.6	97.2
KANSAS	95.4	96.5	94.2	95.6
KENTUCKY	89.1	93.3	89.1	93.1
LOUISIANA	89.4	92.0	92.9	94.9
MAINE	95.7	97.6	95.6	97.8
MARYLAND	95.4	96.7	97.0	97.9
MASSACHUSETTS	96.6	97.4	96.5	97.4
MICHIGAN	94.1	95.5	94.6	95.9
MINNESOTA	96.9	98.1	97.1	97.9
MISSISSIPPI	87.0	90.9	86.2	90.0
MISSOURI	92.0	95.3	94.2	96.0
MONTANA	92.0	94.2	91.6	93.2
NEBRASKA	96.2	97.1	96.0	96.5
NEVADA	92.6	93.6	92.9	94.4
NEW HAMPSHIRE	95.0	96.5	96.7	97.9
NEW JERSEY	94.7	95.9	94.8	95.5
NEW MEXICO	85.8	89.5	87.6	90.2
NEW YORK	91.1	92.8	91.6	93.3
NORTH CAROLINA	91.9	94.2	92.5	95.1
NORTH DAKOTA	97.0	97.9	96.6	98.3
OHIO	95.2	96.3	94.8	96.0
OKLAHOMA	89.5	92.7	89.5	92.6
OREGON	94.5	95.9	96.0	96.0
PENNSYLVANIA	96.9	97.6	97.1	98.0
RHODE ISLAND	95.6	96.5	94.5	95.9
SOUTH CAROLINA	90.2	93.2	89.6	93.2
SOUTH DAKOTA	93.4	95.3	93.5	94.8
TENNESSEE	91.6	94.1	90.7	93.2
TEXAS	89.4	92.0	91.6	94.2
UTAH	95.6	96.3	97.0	97.7
VERMONT	94.9	96.9	94.7	97.4
VIRGINIA	93.0	94.9	92.1	94.8
WASHINGTON	97.1	97.7	97.4	97.7
WEST VIRGINIA	87.6	91.7	89.0	93.1
WISCONSIN	96.9	97.7	96.7	97.7
WYOMING	94.1	95.9	95.6	96.8

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY HOUSEHOLD SIZE – TABLE 1.3

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	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
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

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY HOUSEHOLD SIZE – TABLE 1.3

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
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
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

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY HOUSEHOLD SIZE – TABLE 1.3

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
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
JULY 88								
TOTAL	92.8	94.6	94.1	95.6	83.8	87.6	83.0	86.4
1 PERSON	88.5	91.7	90.8	93.5	76.9	82.5	73.9	80.3
2 – 3	94.6	95.8	95.4	96.5	87.5	90.3	85.7	88.5
4 – 5	95.2	96.0	95.8	96.4	91.7	93.5	84.8	86.2
6 +	93.4	95.8	94.0	96.4	88.8	92.7	88.0	91.0
NOVEMBER 88								
TOTAL	92.5	94.4	93.9	95.5	82.5	86.6	80.8	83.4
1 PERSON	88.0	91.3	90.4	93.2	74.9	80.8	72.4	76.1
2 – 3	94.3	95.8	95.2	96.4	86.9	90.2	82.9	85.4
4 – 5	95.1	95.8	95.9	96.5	89.5	91.1	84.8	85.7
6 +	91.3	92.2	91.7	92.9	86.0	86.0	79.2	82.1
1988 ANNUAL AVERAGE								
TOTAL	92.7	94.5	94.1	95.6	83.0	86.8	82.1	85.1
1 PERSON	88.4	91.7	90.6	93.5	76.4	82.0	74.4	79.5
2 – 3	94.5	95.7	95.4	96.4	86.8	89.7	84.2	86.9
4 – 5	94.9	95.8	95.8	96.5	89.0	90.7	84.4	85.6
6 +	92.8	94.3	93.7	94.9	87.2	90.6	86.1	88.0

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY HOUSEHOLD SIZE – TABLE 1.3

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail		
MARCH 89								
TOTAL	93.0	94.7	94.4	95.8	83.2	86.9	81.9	84.8
1 PERSON	88.9	92.1	91.2	94.1	77.3	82.4	72.1	77.9
2 – 3	94.6	95.7	95.6	96.4	86.7	89.7	83.7	86.1
4 – 5	95.9	96.4	96.8	97.1	89.2	91.0	89.7	89.7
6 +	94.1	94.4	95.5	96.0	90.4	90.4	90.6	91.9
JULY 89								
TOTAL	93.3	95.0	94.6	96.0	83.9	87.9	83.5	86.5
1 PERSON	90.7	93.7	92.2	94.9	81.2	85.6	75.8	81.8
2 – 3	94.5	95.9	95.6	96.7	85.1	89.2	84.9	87.8
4 – 5	94.1	95.3	95.3	96.2	85.6	89.0	85.3	87.9
6 +	88.9	90.8	90.8	92.3	80.5	84.4	82.8	84.2
NOVEMBER 89								
TOTAL	93.0	94.9	94.6	96.0	82.5	86.5	83.5	86.8
1 PERSON	90.5	93.3	92.3	94.8	78.8	83.4	78.6	84.2
2 – 3	94.5	95.9	95.6	96.8	85.5	88.9	84.4	88.0
4 – 5	93.5	94.8	95.1	96.1	82.4	86.5	85.7	87.7
6 +	88.5	90.9	91.6	93.0	76.2	82.6	81.5	83.4
1989 ANNUAL AVERAGE								
TOTAL	93.1	94.9	94.5	95.9	83.2	87.1	83.0	86.0
1 PERSON	90.0	93.0	91.9	94.6	79.1	83.8	75.5	81.3
2 – 3	94.5	95.8	95.6	96.7	85.8	89.3	84.3	87.3
4 – 5	94.5	95.5	95.7	96.4	85.7	88.8	86.9	88.5
6 +	90.5	92.0	92.7	93.8	82.4	85.8	84.9	86.5
MARCH 90								
TOTAL	93.3	95.0	94.6	96.1	83.8	87.1	81.8	84.9
1 PERSON	90.7	93.5	92.5	94.9	79.5	84.1	73.3	78.5
2 – 3	94.9	96.2	95.9	97.0	86.9	89.5	83.8	86.9
4 – 5	93.6	95.0	94.9	96.0	84.2	87.3	84.0	86.7
6 +	87.5	89.5	89.6	91.2	79.0	82.1	79.0	80.4
JULY 90								
TOTAL	93.3	94.9	94.6	96.0	83.6	86.7	83.4	85.5
1 PERSON	91.1	93.8	92.7	95.2	80.2	84.7	77.8	81.2
2 – 3	94.6	95.8	95.7	96.7	85.7	88.4	85.1	87.4
4 – 5	93.7	95.0	95.0	96.1	84.2	87.2	85.0	86.5
6 +	87.8	89.4	89.9	91.4	80.0	81.6	80.2	81.8
NOVEMBER 90								
TOTAL	93.3	95.1	94.7	96.2	83.2	87.2	83.0	85.4
1 PERSON	90.9	93.9	92.4	95.2	80.8	85.6	77.5	81.9
2 – 3	94.8	96.1	95.9	97.0	85.4	89.2	83.6	86.0
4 – 5	93.6	95.0	95.1	96.3	83.5	86.7	84.8	87.2
6+	88.1	90.0	91.0	92.0	76.7	81.7	82.6	83.3

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY HOUSEHOLD SIZE – TABLE 1.3

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
1990 ANNUAL AVERAGE								
TOTAL	93.3	95.0	94.6	96.1	83.5	87.0	82.7	85.3
1 PERSON	90.9	93.7	92.5	95.1	80.2	84.8	76.2	80.5
2 – 3	94.7	96.0	95.8	96.9	86.0	89.0	84.2	86.7
4 – 5	93.6	95.0	95.0	96.1	84.0	87.1	84.6	86.8
6 +	87.8	89.6	90.2	91.5	78.5	81.8	80.6	81.8
MARCH 91								
TOTAL	93.6	95.3	95.0	96.3	84.1	87.9	84.0	89.9
1 PERSON	91.2	94.0	93.1	95.4	78.9	84.3	78.1	85.8
2 – 3	95.1	96.4	96.2	97.2	86.8	90.2	86.6	88.5
4 – 5	94.0	95.2	95.0	96.0	86.4	89.2	83.5	86.1
6+	89.2	90.4	91.4	92.3	79.9	82.2	83.7	84.7

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY INCOME – TABLE 1.4

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	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

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY INCOME – TABLE 1.4

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	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

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY INCOME -- TABLE 1.4

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	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	93.2
\$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

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY INCOME – TABLE 1.4

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	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

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY INCOME – TABLE 1.4

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	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

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY INCOME – TABLE 1.4

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	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

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY INCOME – TABLE 1.4

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
JULY 88								
TOTAL	92.8	94.6	94.1	95.6	83.8	87.6	83.0	86.4
UNDER \$5,000	72.3	78.6	75.2	80.9	65.9	73.8	59.2	64.3
\$5,000 – \$7,499	84.4	87.8	85.7	89.0	80.0	84.5	68.2	74.9
\$7,500 – \$9,999	86.0	89.2	87.7	90.8	80.2	83.3	71.8	78.8
\$10,000 – \$12,499	88.4	91.2	89.6	92.1	81.9	86.2	79.2	81.4
\$12,500 – \$14,999	91.2	94.1	91.6	94.3	88.1	92.1	80.4	86.8
\$15,000 – \$19,999	93.8	95.6	94.4	96.1	89.1	92.2	91.1	93.2
\$20,000 – \$24,999	95.8	97.0	96.2	97.2	91.8	95.1	88.7	90.1
\$25,000 – \$29,999	97.3	98.0	97.8	98.4	92.7	94.7	95.6	97.8
\$30,000 – \$34,999	98.5	99.0	98.8	99.2	95.6	97.2	98.7	99.4
\$35,000 – \$39,999	98.5	98.9	98.6	99.0	97.7	98.3	93.9	95.3
\$40,000 – \$49,999	99.4	99.7	99.5	99.8	97.3	98.1	98.0	100.0
\$50,000 – \$59,999	99.5	99.8	99.6	99.8	98.0	98.5	100.0	100.0
\$60,000 – \$74,999	99.6	99.9	99.6	99.8	100.0	100.0	97.9	99.8
\$75,000 +	99.4	99.9	99.4	99.9	100.0	100.0	97.2	100.0
NOVEMBER 88								
TOTAL	92.5	94.4	93.9	95.5	82.5	86.6	80.8	83.4
UNDER \$5,000	71.5	78.3	74.2	80.4	66.0	74.1	56.8	62.2
\$5,000 – \$7,499	81.6	86.0	83.4	87.2	75.2	81.9	59.6	63.1
\$7,500 – \$9,999	84.9	88.1	87.2	90.1	73.1	77.9	67.0	70.6
\$10,000 – \$12,499	88.7	91.2	90.0	92.2	81.0	84.9	74.5	79.3
\$12,500 – \$14,999	91.5	93.9	92.8	94.8	83.4	87.9	81.5	83.1
\$15,000 – \$19,999	93.6	95.5	94.3	96.1	89.1	91.2	87.3	89.7
\$20,000 – \$24,999	96.5	97.6	96.7	97.8	94.4	96.2	93.1	94.1
\$25,000 – \$29,999	97.8	98.7	98.1	98.7	95.0	98.3	95.4	96.1
\$30,000 – \$34,999	98.6	99.2	98.7	99.3	98.0	98.2	99.5	100.0
\$35,000 – \$39,999	99.0	99.5	99.1	99.5	98.1	99.0	99.1	99.1
\$40,000 – \$49,999	99.3	99.5	99.4	99.6	97.0	97.5	99.0	100.0
\$50,000 – \$59,999	99.5	99.8	99.5	99.8	99.3	99.3	100.0	100.0
\$60,000 – \$74,999	99.5	99.9	99.5	99.9	100.0	100.0	100.0	100.0
\$75,000 +	99.4	100.0	99.4	100.0	100.0	100.0	99.6	100.0
1988 ANNUAL AVERAGE								
TOTAL	92.7	94.5	94.1	95.6	83.0	86.8	82.1	85.1
UNDER \$5,000	72.0	78.4	74.9	80.8	65.8	73.2	58.5	64.5
\$5,000 – \$7,499	83.3	87.1	85.1	88.4	76.9	82.3	66.4	71.7
\$7,500 – \$9,999	85.6	88.7	87.2	90.3	77.7	81.4	67.3	72.8
\$10,000 – \$12,499	88.8	91.5	90.1	92.4	81.7	86.5	77.5	80.9
\$12,500 – \$14,999	91.3	93.7	92.2	94.4	85.1	88.8	81.5	84.5
\$15,000 – \$19,999	93.6	95.3	94.3	95.9	88.5	91.1	88.6	90.6
\$20,000 – \$24,999	96.2	97.4	96.5	97.6	93.5	95.7	91.1	93.1
\$25,000 – \$29,999	97.6	98.4	97.9	98.5	94.4	96.7	95.0	96.4
\$30,000 – \$34,999	98.4	99.0	98.7	99.2	95.4	96.7	98.6	99.0
\$35,000 – \$39,999	98.8	99.2	98.9	99.3	97.8	98.4	97.2	97.7
\$40,000 – \$49,999	99.3	99.6	99.4	99.7	97.3	98.5	98.7	99.7
\$50,000 – \$74,999	99.5	99.8	99.6	99.8	99.2	99.3	99.4	99.8
\$75,000 +	99.5	99.9	99.4	99.9	100.0	100.0	97.8	100.0

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY INCOME – TABLE 1.4

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
MARCH 89								
TOTAL	93.0	94.7	94.4	95.8	83.2	86.9	81.9	84.8
UNDER \$5,000	73.2	79.2	76.6	82.0	65.3	73.0	57.1	61.6
\$5,000 – \$7,499	84.4	87.5	86.4	89.3	79.3	82.6	69.3	74.7
\$7,500 – \$9,999	87.1	89.8	88.4	90.9	82.2	85.6	76.8	80.1
\$10,000 – \$12,499	87.9	90.8	89.6	91.9	78.3	85.2	68.1	70.9
\$12,500 – \$14,999	91.1	93.5	92.5	94.7	81.4	85.4	77.6	80.9
\$15,000 – \$19,999	92.5	94.2	93.8	95.4	82.9	86.0	86.2	88.9
\$20,000 – \$24,999	96.1	97.4	96.5	97.6	92.8	95.3	92.1	94.8
\$25,000 – \$29,999	97.5	98.1	97.7	98.3	95.6	96.9	90.1	92.6
\$30,000 – \$34,999	98.3	98.8	98.5	98.9	96.0	97.6	95.8	96.0
\$35,000 – \$39,999	98.9	99.4	99.0	99.5	96.9	98.3	94.4	97.3
\$40,000 – \$49,999	99.0	99.5	99.2	99.7	97.1	97.7	96.3	98.7
\$50,000 – \$59,999	99.6	99.7	99.7	99.8	99.0	99.0	100.0	100.0
\$60,000 – \$74,999	99.5	99.6	99.4	99.5	99.8	99.8	95.1	95.5
\$75,000 +	99.5	99.8	99.4	99.8	100.0	100.0	99.0	99.0
JULY 89								
TOTAL	93.3	95.0	94.6	96.0	83.9	87.9	83.5	86.5
UNDER \$5,000	74.4	80.2	78.0	83.2	65.1	72.8	62.8	68.7
\$5,000 – \$7,499	84.9	88.4	86.3	89.6	79.3	84.1	72.6	75.1
\$7,500 – \$9,999	86.1	89.5	88.2	91.3	77.1	82.5	75.8	81.7
\$10,000 – \$12,499	88.7	91.9	89.8	92.6	82.0	87.6	74.3	79.2
\$12,500 – \$14,999	91.3	93.9	92.3	94.6	86.0	90.5	78.4	84.1
\$15,000 – \$19,999	93.7	95.7	94.4	96.1	89.1	93.0	85.9	88.0
\$20,000 – \$24,999	95.9	97.1	96.6	97.6	89.6	92.7	92.5	94.0
\$25,000 – \$29,999	97.6	98.5	98.0	98.8	92.9	95.9	97.4	99.0
\$30,000 – \$34,999	98.3	98.8	98.5	98.9	96.1	96.8	93.9	95.4
\$35,000 – \$39,999	98.5	99.1	98.8	99.3	96.4	97.9	94.9	97.1
\$40,000 – \$49,999	99.4	99.6	99.4	99.7	98.3	98.3	98.5	98.5
\$50,000 – \$59,999	99.6	99.8	99.6	99.7	100.0	100.0	96.2	97.6
\$60,000 – \$74,999	99.5	99.8	99.5	99.8	100.0	100.0	100.0	100.0
\$75,000 +	99.5	99.8	99.5	99.8	98.4	98.4	100.0	100.0
NOVEMBER 89								
TOTAL	93.0	94.9	94.6	96.0	82.5	86.5	83.5	86.8
UNDER \$5,000	75.8	81.7	79.7	84.5	66.6	74.6	66.3	71.6
\$5,000 – \$7,499	81.9	86.4	84.2	88.4	73.7	79.3	64.6	71.5
\$7,500 – \$9,999	86.6	90.0	88.8	91.6	75.7	82.6	75.0	78.8
\$10,000 – \$12,499	88.7	91.4	90.7	93.2	77.5	81.8	77.3	80.3
\$12,500 – \$14,999	91.5	93.8	92.4	94.4	86.3	90.5	81.5	86.0
\$15,000 – \$19,999	93.3	95.1	94.4	96.0	85.6	88.7	86.9	89.5
\$20,000 – \$24,999	95.9	97.2	96.2	97.5	92.3	94.9	91.5	94.4
\$25,000 – \$29,999	97.4	98.4	97.8	98.8	93.6	95.3	92.4	97.2
\$30,000 – \$34,999	98.2	98.7	98.4	98.9	96.2	96.7	97.2	97.2
\$35,000 – \$39,999	98.8	99.4	99.0	99.5	96.8	97.7	98.1	98.1
\$40,000 – \$49,999	99.0	99.4	99.2	99.6	96.1	97.1	96.2	97.5
\$50,000 – \$59,999	99.3	99.7	99.4	99.8	97.2	98.0	100.0	100.0
\$60,000 – \$74,999	99.4	99.6	99.5	99.6	98.2	98.2	92.1	94.8
\$75,000 +	99.7	99.8	99.6	99.8	100.0	100.0	100.0	100.0

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY INCOME – TABLE 1.4

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
1989 ANNUAL AVERAGE								
TOTAL	93.1	94.9	94.5	95.9	83.2	87.1	83.0	86.0
UNDER \$5,000	74.4	80.4	78.1	83.2	65.6	73.5	62.1	67.3
\$5,000 – \$7,499	83.7	87.4	85.7	89.1	77.4	82.0	68.8	73.8
\$7,500 – \$9,999	86.6	89.8	88.5	91.3	78.4	83.6	75.9	80.2
\$10,000 – \$12,499	88.4	91.3	90.0	92.6	79.3	84.9	73.2	76.8
\$12,500 – \$14,999	91.3	93.7	92.4	94.5	84.5	88.8	79.2	83.7
\$15,000 – \$19,999	93.2	95.0	94.2	95.8	85.9	89.2	86.3	88.8
\$20,000 – \$24,999	95.9	97.2	96.4	97.5	91.6	94.3	92.0	94.4
\$25,000 – \$29,999	97.5	98.4	97.9	98.6	94.0	96.0	93.3	96.3
\$30,000 – \$34,999	98.3	98.8	98.5	98.9	96.1	97.0	95.6	96.2
\$35,000 – \$39,999	98.7	99.3	98.9	99.4	96.7	98.0	95.8	97.5
\$40,000 – \$49,999	99.1	99.5	99.2	99.6	97.2	97.7	97.0	98.2
\$50,000 – \$59,999	99.5	99.7	99.5	99.8	98.7	99.0	98.7	99.2
\$60,000 – \$74,999	99.5	99.7	99.5	99.7	99.3	99.3	95.7	96.8
\$75,000 +	99.5	99.8	99.5	99.8	99.5	99.5	99.7	99.7
MARCH 90								
TOTAL	93.3	95.0	94.6	96.1	83.8	87.1	81.8	84.9
UNDER \$5,000	75.7	81.1	78.9	83.8	68.1	74.1	57.2	62.3
\$5,000 – \$7,499	82.3	87.0	84.5	88.8	74.8	80.3	65.0	70.4
\$7,500 – \$9,999	87.5	90.4	89.2	91.9	78.6	82.7	75.6	78.3
\$10,000 – \$12,499	87.9	90.4	89.6	91.9	78.6	82.7	70.8	74.5
\$12,500 – \$14,999	91.7	93.8	93.0	95.0	84.6	86.7	83.0	84.9
\$15,000 – \$19,999	93.4	95.4	94.1	95.9	88.0	91.6	83.6	88.6
\$20,000 – \$24,999	95.2	96.7	95.6	96.9	92.2	94.4	89.7	92.6
\$25,000 – \$29,999	97.0	97.9	97.8	98.5	89.5	92.1	92.6	94.8
\$30,000 – \$34,999	98.1	98.7	98.6	99.1	94.4	95.4	96.9	98.0
\$35,000 – \$39,999	98.7	99.3	99.0	99.5	96.4	97.4	93.4	96.6
\$40,000 – \$49,999	99.0	99.4	99.2	99.5	98.0	98.4	99.0	99.0
\$50,000 – \$59,999	99.1	99.5	99.4	99.6	97.3	97.3	95.6	95.6
\$60,000 – \$74,999	99.8	99.9	99.9	99.9	99.2	100.0	100.0	100.0
\$75,000 +	99.4	99.8	99.4	99.8	100.0	100.0	97.7	100.0
JULY 90								
TOTAL	93.3	94.9	94.6	96.0	83.6	86.7	83.4	85.5
UNDER \$5,000	74.9	80.6	78.6	84.0	65.9	72.2	62.2	67.5
\$5,000 – \$7,499	83.2	86.8	85.3	88.8	76.0	80.1	70.3	73.9
\$7,500 – \$9,999	87.0	89.3	89.4	91.5	75.7	79.0	74.8	78.0
\$10,000 – \$12,499	89.0	92.3	90.1	93.5	82.7	86.1	77.2	80.0
\$12,500 – \$14,999	92.0	94.0	92.7	94.6	87.3	90.4	80.5	82.5
\$15,000 – \$19,999	93.4	95.3	94.0	95.6	89.5	92.7	85.8	87.8
\$20,000 – \$24,999	95.7	96.8	96.3	97.3	90.9	92.9	89.7	90.3
\$25,000 – \$29,999	97.0	97.9	97.6	98.4	92.4	93.9	93.3	95.2
\$30,000 – \$34,999	97.8	98.5	98.3	98.8	92.1	95.1	96.6	97.4
\$35,000 – \$39,999	98.8	99.3	98.8	99.2	98.7	99.3	95.3	95.7
\$40,000 – \$49,999	99.2	99.5	99.4	99.5	98.0	98.4	97.5	97.5
\$50,000 – \$59,999	99.4	99.5	99.5	99.6	98.8	98.8	99.0	99.0
\$60,000 – \$74,999	99.5	99.6	99.7	99.7	96.5	97.3	98.9	98.9
\$75,000 +	99.5	99.8	99.6	99.9	96.7	96.7	96.7	93.8

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY INCOME – TABLE 1.4

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
NOVEMBER 90								
TOTAL	93.3	95.1	94.7	96.2	83.2	87.2	83.0	85.4
UNDER \$5,000	75.5	81.2	79.9	84.8	64.2	72.2	63.9	68.5
\$5,000 – \$7,499	82.4	86.6	84.8	88.7	73.9	79.8	64.8	67.5
\$7,500 – \$9,999	86.1	90.0	88.4	91.3	77.7	85.6	74.0	77.1
\$10,000 – \$12,499	89.8	92.3	90.7	93.0	84.4	87.7	74.3	76.8
\$12,500 – \$14,999	91.5	93.8	92.3	94.5	85.9	89.0	82.5	85.5
\$15,000 – \$19,999	93.1	95.3	94.5	96.4	85.6	88.5	86.0	89.5
\$20,000 – \$24,999	96.0	97.4	96.4	97.9	92.5	93.6	89.0	91.2
\$25,000 – \$29,999	97.1	98.1	97.8	98.6	90.8	93.5	96.7	96.7
\$30,000 – \$34,999	97.8	98.6	98.2	98.9	93.3	95.7	94.6	95.7
\$35,000 – \$39,999	98.6	99.2	98.7	99.3	95.9	97.3	93.6	96.6
\$40,000 – \$49,999	99.1	99.5	99.1	99.4	99.5	99.7	97.0	97.0
\$50,000 – \$59,999	99.5	99.8	99.6	99.8	100.0	100.0	97.8	100.0
\$60,000 – \$74,999	99.3	99.6	99.2	99.6	99.2	99.2	97.4	98.5
\$75,000 +	99.5	99.8	99.5	99.8	99.1	99.1	98.7	100.0
1990 ANNUAL AVERAGE								
TOTAL	93.3	95.0	94.6	96.1	83.5	87.0	82.7	85.3
UNDER \$5,000	75.4	81.0	79.1	84.2	66.1	72.8	61.1	66.1
\$5,000 – \$7,499	82.6	86.8	84.9	88.8	74.9	80.1	66.7	70.6
\$7,500 – \$9,999	86.9	89.9	89.0	91.6	77.3	82.4	74.8	77.8
\$10,000 – \$12,499	88.9	91.7	90.2	92.8	81.9	85.5	74.1	77.1
\$12,500 – \$14,999	91.7	93.9	92.7	94.7	85.9	88.7	82.0	84.3
\$15,000 – \$19,999	93.3	95.3	94.2	96.0	87.7	91.0	85.1	88.6
\$20,000 – \$24,999	95.6	97.0	96.1	97.4	91.9	93.7	89.4	91.3
\$25,000 – \$29,999	97.0	98.0	97.7	98.5	90.9	93.2	94.2	95.5
\$30,000 – \$34,999	97.9	98.6	98.4	98.9	93.3	95.4	96.0	97.0
\$35,000 – \$39,999	98.7	99.3	98.8	99.4	97.0	98.0	94.1	96.3
\$40,000 – \$49,999	99.1	99.4	99.2	99.5	98.5	98.8	97.8	97.8
\$50,000 – \$59,999	99.4	99.6	99.5	99.7	98.7	98.7	97.5	98.2
\$60,000 – \$74,999	99.5	99.7	99.6	99.8	98.3	98.8	98.8	99.1
\$75,000 +	99.5	99.8	99.5	99.8	98.6	98.6	97.7	99.6
MARCH 91								
TOTAL	93.6	95.3	95.0	96.3	84.1	87.9	84.0	86.9
UNDER \$5,000	75.1	81.2	79.5	84.8	63.8	71.8	65.9	72.4
\$5,000 – \$7,499	82.8	87.0	85.0	89.0	74.3	80.0	70.2	75.7
\$7,500 – \$9,999	88.3	91.2	88.7	91.4	85.4	89.6	72.4	76.5
\$10,000 – \$12,499	89.0	91.2	90.6	92.5	80.4	84.1	75.3	78.3
\$12,500 – \$14,999	90.6	93.0	91.4	93.7	85.4	88.4	81.0	85.1
\$15,000 – \$19,999	92.9	95.1	93.7	95.5	88.3	92.2	85.4	88.7
\$20,000 – \$24,999	95.4	96.9	96.1	97.5	90.3	92.2	90.4	92.8
\$25,000 – \$29,999	96.8	98.0	97.5	98.5	91.7	94.1	89.0	90.6
\$30,000 – \$34,999	98.2	98.9	98.8	99.2	93.2	96.7	95.0	96.8
\$35,000 – \$39,999	98.6	99.0	98.9	99.2	95.5	96.9	96.2	96.6
\$40,000 – \$49,999	99.4	99.5	99.4	99.5	99.2	99.6	99.0	99.0
\$50,000 – \$59,999	99.5	99.6	99.5	99.6	99.4	99.7	99.6	99.6
\$60,000 – \$74,999	99.9	99.9	99.9	99.9	99.2	99.2	97.3	98.3
\$75,000 +	99.5	99.9	99.5	99.9	100.0	100.0	98.9	98.9

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY HOUSEHOLDER'S AGE – TABLE 1.5

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	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

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY HOUSEHOLDER'S AGE – TABLE 1.5

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	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

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY HOUSEHOLDER'S AGE – TABLE 1.5

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	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

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY HOUSEHOLDER'S AGE – TABLE 1.5

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	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
JULY 88								
TOTAL HOUSEHOLDS	92.8	94.6	94.1	95.6	83.8	87.6	83.0	86.4
16-24 YRS OLD	80.6	85.5	82.6	87.1	65.6	73.8	67.0	73.4
25-54 YRS OLD	92.6	94.5	94.0	95.5	83.5	87.6	84.1	87.4
55-59 YRS OLD	94.4	95.7	95.8	97.0	85.7	87.6	88.6	89.1
60-64 YRS OLD	95.3	96.2	96.2	97.0	88.3	89.7	85.6	89.8
65-69 YRS OLD	96.7	97.4	97.5	97.9	89.6	93.2	92.9	93.9
70-99 YRS OLD	96.6	97.5	97.1	98.1	92.7	93.9	92.4	92.9
NOVEMBER 88								
TOTAL HOUSEHOLDS	92.5	94.4	93.9	95.5	82.5	86.6	80.8	83.4
16-24 YRS OLD	78.7	84.2	81.0	86.1	63.9	71.6	58.9	66.5
25-54 YRS OLD	92.4	94.4	93.9	95.5	82.0	86.4	82.5	84.4
55-59 YRS OLD	95.5	96.5	96.1	96.9	90.3	92.9	85.2	86.3
60-64 YRS OLD	95.1	96.1	96.2	97.0	86.6	89.2	91.1	91.7
65-69 YRS OLD	96.3	97.1	97.3	98.0	87.9	89.7	91.2	92.2
70-99 YRS OLD	96.3	97.6	96.8	98.1	91.5	93.7	93.0	96.4

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY HOUSEHOLDER'S AGE – TABLE 1.5

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
1988 ANNUAL AVERAGE								
TOTAL HOUSEHOLDS	92.7	94.5	94.1	95.6	83.0	86.8	82.1	85.1
16-24 YRS OLD	80.2	85.1	82.3	86.8	65.6	73.5	64.0	70.9
25-54 YRS OLD	92.6	94.4	94.1	95.6	82.2	86.3	83.5	86.1
55-59 YRS OLD	95.1	96.4	96.1	97.2	88.3	91.0	88.5	89.9
60-64 YRS OLD	95.3	96.2	96.3	97.0	87.6	89.9	87.3	90.0
65-69 YRS OLD	96.4	97.1	97.2	97.7	89.6	92.0	89.6	91.2
70-99 YRS OLD	96.2	97.5	96.7	97.9	92.3	93.9	92.2	94.3
MARCH 89								
TOTAL HOUSEHOLDS	93.0	94.7	94.4	95.8	83.2	86.9	81.9	84.8
16-24 YRS OLD	82.2	86.6	84.5	88.3	66.6	75.5	65.6	70.6
25-54 YRS OLD	92.8	94.5	94.3	95.7	82.2	86.2	83.2	86.2
55-59 YRS OLD	95.6	96.6	96.5	97.4	90.0	91.6	89.8	90.0
60-64 YRS OLD	95.7	96.8	96.5	97.4	90.4	92.6	85.2	85.6
65-69 YRS OLD	96.7	97.2	97.3	97.7	92.1	92.9	85.8	89.7
70-99 YRS OLD	96.0	96.9	96.7	97.6	90.5	91.2	86.0	87.8
JULY 89								
TOTAL HOUSEHOLDS	93.3	95.0	94.6	96.0	83.9	87.9	83.5	86.5
16-24 YRS OLD	80.3	85.7	82.8	87.6	65.7	74.8	69.4	77.3
25-54 YRS OLD	93.0	94.8	94.3	95.9	83.3	87.5	83.7	86.6
55-59 YRS OLD	95.1	96.3	96.0	97.1	88.8	91.1	88.4	88.8
60-64 YRS OLD	95.3	96.3	96.2	97.0	87.7	91.2	89.5	89.5
65-69 YRS OLD	96.1	97.0	96.8	97.5	90.1	92.8	87.3	89.4
70-99 YRS OLD	96.5	97.5	97.2	98.1	90.6	92.3	89.2	92.3
NOVEMBER 1989								
TOTAL HOUSEHOLDS	93.0	94.9	94.6	96.0	82.5	86.5	83.5	86.8
16-24 YRS OLD	79.0	85.5	81.4	87.1	63.7	75.2	59.3	69.1
25-54 YRS OLD	92.5	94.4	94.1	95.7	81.2	85.4	83.8	86.7
55-59 YRS OLD	95.6	96.6	96.8	97.6	87.2	89.5	92.3	94.7
60-64 YRS OLD	96.2	96.9	97.1	97.7	89.5	90.9	94.6	95.0
65-69 YRS OLD	96.1	96.9	97.1	97.9	88.6	90.1	93.3	93.8
70-99 YRS OLD	96.8	97.7	97.5	98.2	92.2	94.4	94.2	95.8
1989 ANNUAL AVERAGE								
TOTAL HOUSEHOLDS	93.1	94.9	94.5	95.9	83.2	87.1	83.0	86.0
16-24 YRS OLD	80.5	85.9	82.9	87.7	65.3	75.2	64.8	72.3
25-54 YRS OLD	92.7	94.6	94.3	95.8	82.2	86.4	83.6	86.5
55-59 YRS OLD	95.4	96.5	96.4	97.4	88.7	90.7	90.1	91.2
60-64 YRS OLD	95.7	96.7	96.6	97.3	89.2	91.6	89.8	90.0
65-69 YRS OLD	96.3	97.0	97.1	97.7	90.3	91.9	88.8	91.0
70-99 YRS OLD	96.4	97.4	97.1	97.9	91.1	92.6	89.8	92.0

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY HOUSEHOLDER'S AGE – TABLE 1.5

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
MARCH 90								
TOTAL HOUSEHOLDS	93.3	95.0	94.6	96.1	83.8	87.1	81.8	84.9
16-24 YRS OLD	82.2	86.7	84.5	88.5	67.2	75.5	67.3	72.3
25-54 YRS OLD	92.6	94.5	94.1	95.7	83.0	86.4	80.8	84.2
55-59 YRS OLD	95.3	96.2	96.7	97.5	84.9	87.0	90.8	91.4
60-64 YRS OLD	96.3	97.0	97.2	97.6	90.6	92.9	90.7	90.7
65-69 YRS OLD	96.1	97.1	96.9	97.8	90.7	91.8	87.4	91.4
70-99 YRS OLD	96.7	97.6	97.1	98.0	91.9	93.4	94.7	94.7
JULY 90								
TOTAL HOUSEHOLDS	93.3	94.9	94.6	96.0	83.6	86.7	83.4	85.5
16-24 YRS OLD	80.6	86.3	83.6	88.7	63.8	73.1	69.8	76.5
25-54 YRS OLD	92.6	94.3	94.1	95.5	82.6	86.0	83.1	85.0
55-59 YRS OLD	95.4	96.5	96.3	97.4	88.9	90.7	89.5	90.7
60-64 YRS OLD	96.0	96.9	96.9	97.7	89.5	90.7	89.7	89.7
65-69 YRS OLD	96.0	96.6	96.8	97.4	89.0	90.0	88.6	89.3
70-99 YRS OLD	97.1	97.8	97.6	98.3	92.6	93.3	91.6	92.8
NOVEMBER 90								
TOTAL HOUSEHOLDS	93.3	95.1	94.7	96.2	83.2	87.2	83.0	85.4
16-24 YRS OLD	80.8	86.3	82.5	87.6	68.1	77.5	66.4	71.6
25-54 YRS OLD	92.5	94.5	94.2	95.9	81.5	85.8	82.2	84.7
55-59 YRS OLD	95.5	96.6	96.6	97.4	88.2	91.3	89.5	89.9
60-64 YRS OLD	96.3	96.9	97.2	97.6	88.9	91.2	91.5	92.8
65-69 YRS OLD	96.8	97.6	97.4	98.1	92.5	93.4	96.0	96.8
70-99 YRS OLD	96.9	97.9	97.6	98.5	91.2	93.4	93.4	95.0
1990 ANNUAL AVERAGE								
TOTAL HOUSEHOLDS	93.3	95.0	94.6	96.1	83.5	87.0	82.7	85.3
16-24 YRS OLD	81.2	86.5	83.6	88.2	66.4	75.3	67.8	73.5
25-54 YRS OLD	92.6	94.5	94.1	95.7	82.4	86.1	82.0	84.6
55-59 YRS OLD	95.4	96.4	96.5	97.4	87.3	89.6	89.9	90.7
60-64 YRS OLD	96.2	96.9	97.1	97.6	89.7	91.6	90.6	91.1
65-69 YRS OLD	96.3	97.1	97.0	97.8	90.7	91.7	90.7	92.5
70-99 YRS OLD	96.9	97.8	97.4	98.3	91.9	93.3	93.2	94.1
MARCH 91								
TOTAL HOUSEHOLDS	93.6	95.3	95.0	96.3	84.1	87.9	84.0	86.9
16-24 YRS OLD	80.7	86.4	82.8	88.4	66.9	74.4	67.4	75.5
25-54 YRS OLD	93.1	94.9	94.6	96.0	83.3	87.4	84.3	86.6
55-59 YRS OLD	95.4	96.6	96.5	97.3	87.0	90.8	89.3	90.2
60-64 YRS OLD	95.7	96.8	96.6	97.3	89.1	92.7	89.6	92.2
65-69 YRS OLD	96.9	97.5	97.7	98.2	90.0	91.6	94.7	96.3
70-99 YRS OLD	97.3	98.0	97.9	98.5	91.9	92.6	92.0	95.4

PERCENTAGE OF ADULTS WITH A TELEPHONE BY LABOR FORCE STATUS - TABLE 1.6

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	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
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

PERCENTAGE OF ADULTS WITH A TELEPHONE BY LABOR FORCE STATUS – TABLE 1.6

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
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
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

PERCENTAGE OF ADULTS WITH A TELEPHONE BY LABOR FORCE STATUS – TABLE 1.6

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
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
JULY 88								
TOTAL CNP	93.9	95.3	94.9	96.1	86.5	89.6	84.9	87.5
EMPLOYED	94.8	96.2	95.6	96.8	88.8	91.8	86.3	89.0
UNEMPLOYED	84.5	88.1	87.3	90.0	76.7	82.9	78.1	81.3
NOT IN LABOR FORCE	93.0	94.4	94.3	95.5	84.7	87.3	83.3	85.7
NOVEMBER 88								
TOTAL CNP	93.6	95.1	94.7	96.0	85.5	88.8	82.2	84.4
EMPLOYED	94.6	96.1	95.4	96.6	88.2	91.4	83.4	85.4
UNEMPLOYED	82.1	86.0	84.4	88.1	75.4	79.7	77.5	81.7
NOT IN LABOR FORCE	92.9	94.3	94.3	95.5	83.0	86.4	80.7	82.8
1988 ANNUAL AVERAGE								
TOTAL CNP	93.8	95.2	94.9	96.1	85.6	88.7	83.6	86.1
EMPLOYED	94.9	96.2	95.6	96.8	88.5	91.5	85.4	87.7
UNEMPLOYED	83.3	86.8	85.9	88.9	75.4	80.5	76.7	80.3
NOT IN LABOR FORCE	92.8	94.2	94.3	95.5	83.1	86.0	81.5	84.0
MARCH 89								
TOTAL CNP	94.0	95.3	95.2	96.3	85.5	88.5	83.9	85.9
EMPLOYED	95.1	96.4	95.9	97.0	88.3	91.3	85.6	87.8
UNEMPLOYED	83.6	86.4	86.4	88.5	75.9	81.0	72.0	73.3
NOT IN LABOR FORCE	93.0	94.2	94.7	95.6	83.1	85.7	82.2	84.0
JULY 89								
TOTAL CNP	94.3	95.7	95.3	96.4	86.8	90.0	85.2	87.6
EMPLOYED	95.4	96.7	96.1	97.3	89.6	92.6	87.8	90.3
UNEMPLOYED	84.7	87.5	86.4	88.6	79.4	84.0	75.2	78.1
NOT IN LABOR FORCE	93.1	94.4	94.5	95.6	83.6	86.7	82.0	84.0
NOVEMBER 89								
TOTAL CNP	94.0	95.5	95.3	96.5	85.2	88.6	85.0	87.6
EMPLOYED	95.1	96.4	95.9	97.1	88.5	91.3	86.4	88.9
UNEMPLOYED	83.3	87.6	85.9	89.3	75.7	82.6	78.0	84.5
NOT IN LABOR FORCE	93.1	94.5	94.9	95.9	81.8	85.4	83.6	85.6

PERCENTAGE OF ADULTS WITH A TELEPHONE BY LABOR FORCE STATUS – TABLE 1.6

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
1989 ANNUAL AVERAGE								
TOTAL CNP	94.1	95.5	95.3	96.4	85.8	89.0	84.7	87.0
EMPLOYED	95.2	96.5	96.0	97.1	88.8	91.7	86.6	89.0
UNEMPLOYED	83.9	87.1	86.2	88.8	77.0	82.5	75.1	78.6
NOT IN LABOR FORCE	93.1	94.4	94.7	95.7	82.8	85.9	82.6	84.6
MARCH 90								
TOTAL CNP	94.2	95.6	95.3	96.5	86.1	88.7	83.9	86.5
EMPLOYED	95.3	96.6	96.0	97.2	89.5	91.5	85.5	88.4
UNEMPLOYED	83.9	87.3	87.3	89.9	71.6	77.6	74.3	78.0
NOT IN LABOR FORCE	93.3	94.6	94.8	95.8	83.4	86.3	82.6	84.2
JULY 90								
TOTAL CNP	94.1	95.4	95.2	96.3	86.3	88.6	84.6	86.4
EMPLOYED	95.3	96.6	96.0	97.1	89.5	91.8	86.3	88.1
UNEMPLOYED	85.7	87.9	88.4	90.3	76.9	80.3	79.6	81.5
NOT IN LABOR FORCE	92.7	94.0	94.2	95.3	83.2	85.3	82.1	83.9
NOVEMBER 1990								
TOTAL CNP	94.2	95.6	95.4	96.6	86.0	89.0	84.9	86.8
EMPLOYED	95.4	96.7	96.2	97.3	89.1	92.0	87.1	88.8
UNEMPLOYED	85.4	88.8	87.9	91.0	77.6	82.0	77.1	81.7
NOT IN LABOR FORCE	93.2	94.5	94.8	95.8	83.0	85.9	82.5	84.1
1990 ANNUAL AVERAGE								
TOTAL CNP	94.2	95.5	95.3	96.5	86.1	88.8	84.5	86.6
EMPLOYED	95.3	96.6	96.0	97.2	89.4	91.8	86.3	88.4
UNEMPLOYED	85.0	88.0	87.9	90.4	75.3	80.0	77.0	80.4
NOT IN LABOR FORCE	93.0	94.3	94.6	95.6	83.2	85.8	82.4	84.1
MARCH 91								
TOTAL CNP	94.5	95.8	95.6	96.6	86.8	89.7	85.6	87.8
EMPLOYED	95.7	96.9	96.4	97.4	90.1	92.8	87.6	89.8
UNEMPLOYED	86.6	89.6	87.9	90.5	81.0	85.9	76.8	80.7
NOT IN LABOR FORCE	93.4	94.7	94.9	96.0	83.1	85.9	83.7	85.6

CHART 1.4

Telephone Penetration

Individual Adults

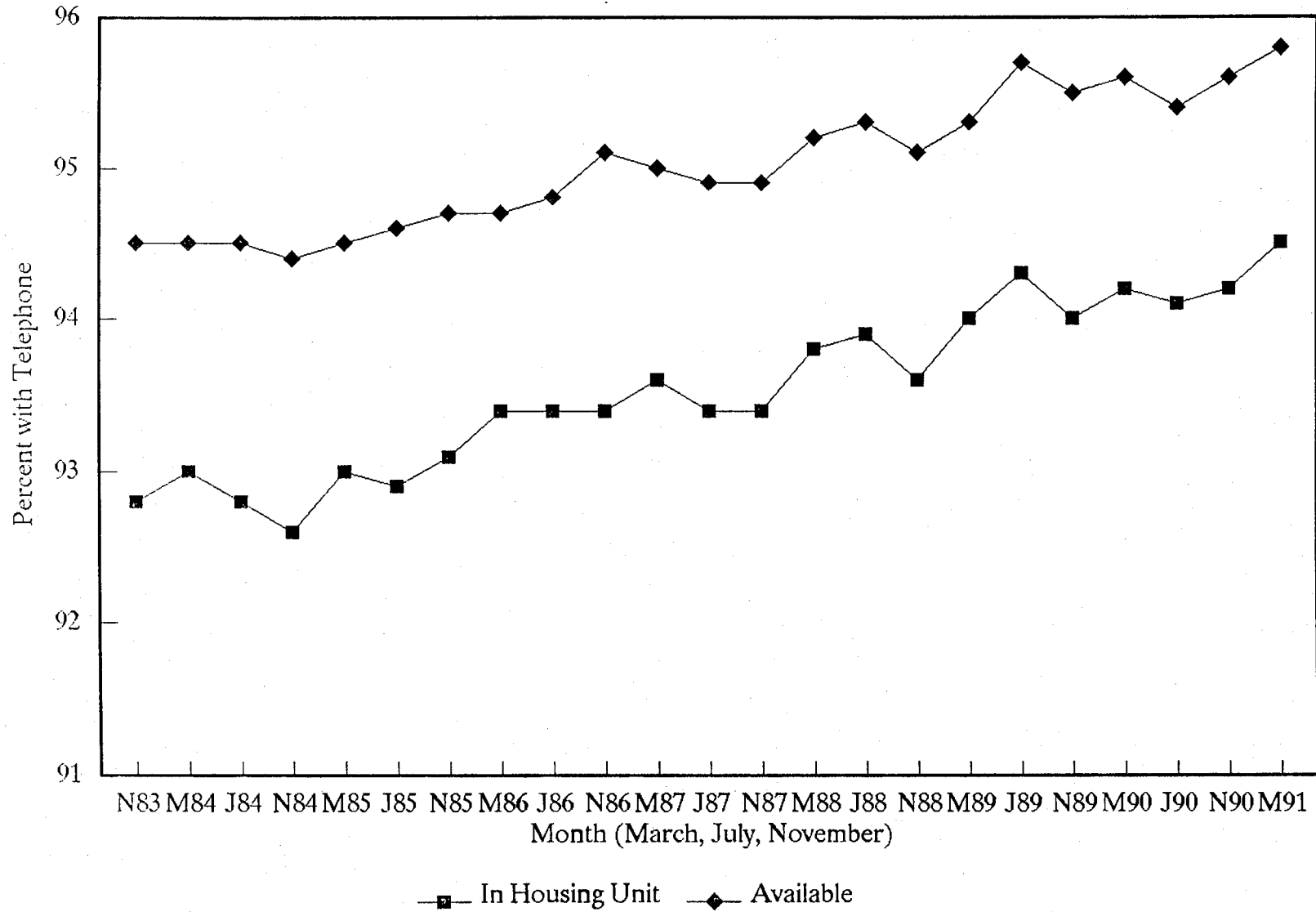


TABLE 1.7

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	5.2	4.5
Arizona	4.5	4.4
Arkansas	5.8	4.8
California	1.6	1.4
Colorado	3.3	3.0
Connecticut	2.8	1.8
Delaware	3.2	2.7
Dist. of Columbia	3.8	2.8
Florida	2.9	2.7
Georgia	5.0	4.5
Hawaii	2.7	2.0
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	4.3	3.3
Louisiana	4.3	3.8
Maine	3.8	3.3
Maryland	3.2	2.7
Massachusetts	2.5	2.3
Michigan	2.6	2.2
Minnesota	2.6	2.4
Mississippi	5.0	4.6
Missouri	3.5	2.9
Montana	5.3	4.3
Nebraska	3.3	3.0
Nevada	5.0	4.3
New Hampshire	4.0	3.3
New Jersey	2.4	2.1
New Mexico	5.7	4.5
New York	2.1	1.8
North Carolina	3.9	3.4
North Dakota	3.8	3.5
Ohio	2.2	1.9
Oklahoma	3.9	3.6
Oregon	3.5	3.0
Pennsylvania	1.6	1.3
Rhode Island	3.0	2.5

TABLE 1.7 (cont.)

<u>State</u>	<u>In Unit</u>	<u>Available</u>
South Carolina	6.1	5.3
South Dakota	3.7	3.5
Tennessee	4.9	4.3
Texas	2.6	2.3
Utah	4.6	4.6
Vermont	5.3	4.6
Virginia	4.0	3.4
Washington	4.1	3.9
West Virginia	4.4	3.9
Wisconsin	3.1	3.0
Wyoming	4.6	3.9

TABLE 1.8

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%	4.8%	4.4%
1 Person	1.1%	0.9%	1.1%	1.0%	4.0%	3.6%	11.2%	10.7%
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%	4.7%	4.1%	8.9%	8.1%
6 +	2.6%	2.2%	2.8%	2.4%	8.0%	7.1%	14.3%	12.9%

TABLE 1.9

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%	8.9%	8.6%
\$5,000 - \$7,499	1.7%	1.5%	1.8%	1.6%	5.5%	5.0%	11.3%	10.6%
\$7,500 - \$9,999	1.9%	1.7%	2.0%	1.8%	7.2%	6.4%	14.1%	13.2%
\$10,000 - \$12,499	1.9%	1.6%	1.9%	1.7%	7.2%	6.4%	15.8%	14.6%
\$12,500 - \$14,999	2.1%	1.8%	2.1%	1.8%	8.6%	7.6%	18.2%	16.8%
\$15,000 - \$17,499	2.2%	1.9%	2.2%	2.0%	9.2%	8.2%	19.8%	18.0%
\$17,500 - \$19,999	2.3%	2.0%	2.3%	2.0%	10.7%	9.3%	20.5%	18.6%
\$20,000 - \$24,999	1.7%	1.5%	1.7%	1.5%	9.0%	7.8%	16.7%	15.1%
\$25,000 - \$29,999	1.9%	1.7%	1.9%	1.6%	10.9%	9.4%	21.9%	19.8%
\$30,000 - \$34,999	2.0%	1.8%	2.0%	1.7%	12.5%	10.7%	24.8%	22.1%
\$35,000 - \$39,999	2.4%	2.1%	2.4%	2.0%	15.5%	13.2%	28.5%	25.5%
\$40,000 - \$49,999	2.2%	1.9%	2.1%	1.8%	15.1%	12.8%	28.9%	25.7%
\$50,000 - \$74,999	2.3%	1.9%	2.2%	1.9%	16.3%	13.8%	32.1%	28.6%
\$75,000 +	3.5%	3.0%	3.3%	2.8%	44.5%	37.9%	54.3%	48.8%

TABLE 1.10

Critical Values for Determining Significant Differences for Age

	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%	4.8%	4.4%
16 - 24 Yrs old	1.6%	1.4%	1.6%	1.5%	5.6%	5.5%	10.5%	10.2%
25 - 54 Yrs old	0.7%	0.6%	0.7%	0.6%	2.7%	2.4%	5.9%	5.4%
55 - 59 Yrs old	2.1%	1.8%	2.1%	1.8%	8.8%	7.7%	20.9%	18.9%
60 - 64 Yrs old	2.1%	1.8%	2.1%	1.8%	9.4%	8.1%	24.5%	22.0%
65 - 69 Yrs old	2.3%	2.0%	2.3%	1.9%	10.3%	8.9%	30.4%	27.4%
70 - 99 Yrs old	1.6%	1.4%	1.6%	1.4%	7.8%	6.7%	23.0%	20.9%

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%	7.3%	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%	9.3%	8.4%	25.0%	23.1%
Not in Labor Force	1.3%	1.1%	1.3%	1.1%	5.0%	4.4%	11.9%	10.8%

2. Lifeline Assistance

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 low-income households without service to connect to the network. The FCC is monitoring subscriber participation and telephone usage to determine program benefits and costs. ¹ Table 2.1 lists the entities that have been certified by the FCC and the dates of their certification.

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 individuals afford telephone service. The programs, funded through charges ultimately paid by interstate ratepayers, reflect matching local rate reductions approved by state utility commissions, and may take the form of a reduction in monthly charges or a reduction in service connection and installation charges. After state programs are certified by the FCC, local exchange carriers are reimbursed through the National Exchange Carrier Association (NECA) for program expenses. These expenses are not funded by federal tax dollars.

Lifeline certification rules require participating entities to verify subscriber eligibility annually. Local exchange companies rely on state established means tests to meet FCC verification requirements. Annual recertification of both lifeline and Link-Up programs by the FCC is contingent upon the income eligibility criteria established in the initial letter to participating states and local exchange carriers.

On January 17, 1991, the FCC eliminated the State Telephone Assistance Report (FCC Form 496).² The report was established to obtain information related to the annual recertification of lifeline and Link-Up programs. A more timely and accurate report created with the help of NECA will substitute

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, FCC 85-643, 51 Fed. Reg. 1371 (January 13, 1986) at para. 5; and Establishment of a Program to Monitor the Impact of Joint Board Decision, Order, CC Docket No. 87-339, 2 FCC Rcd 5266 (1987).

2 Public Notice; Mimeo Number 11380.

for the FCC Form 496. Eliminating the form does not preclude the Commission from directing state and local exchange companies to file additional information should the need arise.

Table 2.2 provides a list of states participating in the Link-Up program and shows both reimbursements and the number of subscribers receiving assistance between January 1990 and July 1990. Table 2.3 provides a similar survey of states participating in the lifeline programs. ³

Under lifeline and Link-Up America programs, benefits are 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. Table 2.4 provides a description of the income means test used by each state utility commission or local telephone company.

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 total 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. 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 is 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 total reduction in fixed charges for telephone service of twice the amount 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 plan meets the following federal requirements:

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

3 Tables 2.2 through 2.6 were filed by NECA in this docket on May 31, 1991.

b) subject to verification -- procedures must be established which routinely check to ensure that those individuals eligible under the plans are the individuals benefiting 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 service rates, reduced connection charges or reduced deposit requirements. No restrictions are imposed on the source of funding for state assistance.

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, federal assistance will be provided to pay one-half of the connection charges, up to a maximum of \$30.00 in benefits, 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. Link-Up is targeted to those qualified individuals who comprise a portion of the approximately 2.9 million low income households who currently are not connected to the public switched network.

On June 23, 1988, the FCC adopted a Notice of Proposed Rule Making in CC Docket No. 88-341 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 had declined to participate in the program due to the existence of non-means-based eligibility criteria. The Commission was concerned that the three-month and two-year eligibility rules were discouraging participation in Link-Up America. Data from a pilot program indicated that approximately 15 percent of Link-Up applicants had 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 these rules and requiring prior service verification in cases in which income eligibility is not verified.

On February 27, 1989, the FCC adopted and released a revision of the Link-Up America rules which eliminated two non-income criteria. Connection assistance will be available for one telephone line per household, at a subscriber's principal place of residence. To become

eligible for assistance when income is verified, a residential subscriber must meet the requirements of the state established income test, and not be a dependent, unless the subscriber is more than 60 years old. Alternatively, when income is not verified, a resident may self-certify according to the criteria stated above. However, the entity receiving certification (state or company) must verify that the customer has lived at an address where there has been no telephone service for at least three months, and has not received assistance within the last two years.

The Link-Up America rules encourage, but do not require, states 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.

Two states, California and New York, began offering a lifeline assistance program pursuant to Plan 1 in 1985. New York switched to Plan 2 in November 1987. At this time, forty-eight states, the District of Columbia, and Puerto Rico are participating in some type of federal lifeline assistance program for low income Americans.

Federal assistance for the lifeline plans was funded through the interstate carrier common line charge (CCLC) until April 1989, at which time all three plans began to be funded through direct billing of the interexchange carriers (IXCs) by NECA. Under the new funding procedures, IXCs are responsible for paying lifeline assistance if they have at least 0.05% of the nationwide presubscribed lines.

Under the new funding process, which began on April 1, 1989, the reimbursements under the program are allocated based on expenses submitted to NECA by participating LECs. NECA files a lifeline assistance rate which is billed directly to interexchange carriers. The revenues are used to pay certified exchange carriers for matching lifeline assistance costs. Further, each state determines the scope of program eligibility through the selection of means tested state assistance programs like AFDC, SSI, food stamps and medical assistance. The lifeline assistance funds are replenished from revenues of the IXCs based on the carriers presubscribed lines.

Table 2.5 provides data, for each state and telephone company with a lifeline program, on the amount of money reimbursed to offset the subscriber line charge waiver. The amounts shown in Table 2.5 do not include local matching rate reductions. Table 2.6 provides similar data for the Link-Up America program.

Since the January 1991 Monitoring Report, one report was filed with the FCC: "Targeted Price Subsidization of Access to the Telecommunications Network", by Vinson Snowberger, (Journal of Regulatory Economics 2:415-431;

1990). The article says the universal service commitment is motivated by both the "widely acknowledged presence of network externalities; and by the merit-good characteristics of access to the telecommunications network." The article postulates that appropriate subsidies to the lowest income households are efficient because these households "exhibit lower penetration rates and greater value of price elasticities of connection than do remaining ratepayers". Equations are derived for calculating the optimal flat rate charge and the optimal rates of subsidization within the context of existing federal and state low income telephone assistance programs.

TABLE 2.1
FCC LIFELINE AND LINK-UP AMERICA CERTIFICATION LETTERS

STATE AND/OR LEC	LIFELINE	LINK-UP	DATE OF APPROVAL
Alabama			
Public Service Commission		X	10/01/87
Arizona			
Corporation Commission	X		11/14/86
Dept. of Economic Stabilization	X		11/02/87
Mountain Bell	X	X	1/15/88
Contel of West	X	X	11/22/88
Contel California - AZ	X	X	11/22/88
Citizens Utilities Company		X	11/08/90
Arkansas			
Public Service Commission for: (Southwestern Bell)	X		5/22/86
(Southwestern Bell)		X	10/01/87
California *			
Public Utilities Commission	X		1/01/85
Colorado			
Public Utilities Commission for: (Mountain States Inc.)	X		7/25/86
Public Utilities Commission		X	11/13/87
Public Utilities Commission		X	1/16/90
Public Utilities Commission	X		5/15/90
Connecticut			
Dept. of Public Utility Control		X	11/13/87
District of Columbia			
Public Service Commission	X		3/18/86
		X	8/19/87
Florida			
Public Service Commission		X	8/01/88
Georgia			
Public Service Commission		X	5/25/90
	X		2/25/91
Hawaii			
Public Utilities Commission	X		10/27/86
GTE Hawaiian Telephone Co.		X	8/07/89
Idaho			
Dept. of Human Welfare	X		7/24/87
Contel	X	X	9/07/88
Public Utilities Commission		X	5/12/89
Gem State Utilities (PacTelCm)	X	X	11/27/89
Public Utilities Commission		X	1/22/90

STATE AND/OR LEC	LIFELINE	LINK-UP	DATE OF APPROVAL
Illinois ** Commerce Commission	X	X	9/18/89 11/08/90
Indiana Utilities Regulatory Commission		X	4/25/88
Iowa State Utilities Board		X	3/10/88
Kansas Corporation Commission		X	1/27/88
Kentucky Public Service Commission		X	1/24/87
Louisiana Public Service Commission		X	10/25/88
Maine Public Utilities Commission	X	X	8/11/87
Maryland Public Service Commission	X	X	5/22/86 10/01/87
Massachusetts Dept. of Public Utilities for: (New England Telephone)	X	X	2/09/90
Michigan Public Service Commission for: (Michigan Bell)	X	X	1/24/89
GTE-North Inc.	X	X	6/06/90
Michigan Exchange Carriers Assoc.	X	X	9/17/90
Minnesota Public Utilities Commission	X	X	1/27/88
Runestone Telephone Assn.	X	X	3/10/88
Mississippi Public Service Commission (South Central Bell)	X	X	4/27/88 1/14/91
Missouri Southwestern Bell	X		10/01/87
Contel		X	12/28/87
UTC		X	12/28/87
GTE North Inc		X	4/04/88
Public Service Commission		X	9/23/88
Contel	X		3/12/91
GTE North Inc	X		3/26/91

STATE AND/OR LEC	LIFELINE	LINK-UP	DATE OF APPROVAL
Montana			
Public Service Commission	X	X	8/11/87
GTE Northwest Inc.	X	X	9/20/88
Nebraska			
Public Service Commission		X	3/17/88
Nevada			
Nevada Bell	X	X	4/28/87
Centel		X	8/16/88
Public Service Commission		X	3/17/88
Churchill County Telephone		X	8/17/90
New Hampshire			
Public Utilities Commission		X	11/03/88
New Jersey			
Board of Public Utilities		X	11/03/87
New Mexico			
Mountain bell		X	4/01/87
Contel of West	X		7/13/87
Western New Mexico	X	X	7/13/87
Mountain Bell	X		1/15/88
Contel of West		X	2/09/88
GTE Southwest		X	2/19/91
New York			
Public Service Commission	X	X	3/14/87
Rochester Telephone Corp.	X		8/11/87
Pubic Service Commission	X	X	11/02/87
North Carolina			
Utilities Commission	X		5/22/86
Utilities Commission	X		3/05/87
Utilities Commission		X	10/19/87
North Dakota			
Public Service Commission		X	12/24/87
Public Service Commission	X		12/18/89
Northwestern Bell	X		12/18/89
Ohio			
Public Utilities Commission	X		7/01/87
Public Utilities Commission		X	10/01/87
Oklahoma			
Corporate Commission		X	4/09/90

STATE AND/OR LEC	LIFELINE	LINK-UP	DATE OF APPROVAL
Oregon			
Public Utilities Commission	X		5/22/86
Public Utilities Commission		X	5/05/88
Public Utilities Commission	X		4/13/89
Pennsylvania			
Public Utilities Commission		X	6/02/88
		X	9/29/89
Puerto Rico			
Puerto Rico Telephone		X	11/17/88
Rhode Island			
Public Utilities Commission	X	X	9/21/87
South Carolina			
Public Utilities Commission		X	12/24/87
South Dakota			
Northwestern Bell	X	X	2/25/88
Tennessee			
Public Service Commission		X	11/03/88
Texas			
Public Utilities Commission		X	10/01/87
Poka - Lambro Telephone Co-op	X	X	4/08/88
Public Utilities Commission	X		7/12/88
Central Texas Co-op	X		4/25/89
UTC of Texas Inc.	X		1/23/90
Lufkin - Conroe Telephone Exchange	X	X	3/12/90
Kerrville Telephone Co. of Texas	X		7/13/90
San Marcos Telephone Company	X		1/14/91
Southwestern Bell Telephone Company	X		5/13/91
Utah			
Public Service Commission	X		12/31/86
Public Service Commission	X		6/29/87
Public Service Commission		X	3/17/88
Vermont			
Public Service Board	X		9/30/86
		X	2/09/90
Virginia			
Corporate Commission	X	X	12/24/87
Washington			
Utilities Telephone Commission	X		7/24/87
		X	8/17/90

STATE AND/OR LEC	LIFELINE	LINK-UP	DATE OF APPROVAL
West Virginia			
Public Service Commission	X		7/25/86
Public Service Commission		X	9/11/87
Wisconsin			
Wisconsin Bell		X	7/14/90
Wisconsin Bell	X		11/08/90
GTE North		X	7/05/90
Wyoming			
Mountain Bell		X	1/24/89
UTC of the West		X	2/23/89
Telephone Utilities (PacCom)		X	8/07/89
Public Service Commission	X		5/21/91

Note: State commissions may request FCC certification in Federal assistance programs for all carriers in the state or for selected local exchange carriers.

Local telephone companies may request FCC certification independent of state action. Where no state action is taken, the LEC is listed in the table under participating program along with the date certified by the FCC.

State commission requests for certification may follow the approval of local companies certified by the FCC. A state commission may have two dates where certification reflects an extension of eligibility within the state to a more inclusive program for low-income subscribers.

The list of certified states and/or local telephone companies indicates the extent of participation by carriers and the availability of Lifeline and Link-Up assistance in each state.

* California is the only state still offering a Lifeline program under Plan 1 (the 50% waiver of the SLC).

** In response to a Class Action Suit filed in the Circuit Court of Cook County, Illinois, the Illinois Commerce Commission on its own motion terminated both the certified lifeline and Link Up programs implemented on February 1, 1991.

TABLE 2.2

Link-Up America

(Lifeline Connection Assistance and Deferred Payments)

January 1, 1990 through June 30, 1990

State	Reimbursement to Local Companies	Subscribers Receiving Assistance	Participating Study Areas	Total Study Areas
=====	=====	=====	=====	=====
ALABAMA	\$19,915	930	10	30
ALASKA	\$0	0	0	25
ARIZONA	\$3,071	183	1	11
ARKANSAS	\$49,807	2,605	13	28
CALIFORNIA	\$0	0	0	22
COLORADO	\$4,481	169	1	27
CONNECTICUT	\$32,663	1,687	1	2
DELAWARE	\$0	0	0	1
DISTRICT OF COL	\$4,277	285	1	1
FLORIDA	\$45,034	2,000	5	13
GEORGIA	\$0	0	0	36
HAWAII	\$6,924	415	1	1
IDAHO	\$1,746	100	2	20
ILLINOIS	\$317,863	12,924	18	56
INDIANA	\$20,741	869	7	42
IOWA	\$59,340	3,284	26	153
KANSAS	\$9,251	453	6	40
KENTUCKY	\$89,004	3,087	16	19
LOUISIANA	\$491,804	17,219	11	20
MAINE	\$107,995	5,009	12	19
MARYLAND	\$79,979	3,655	1	2
MASSACHUSETTS	\$49,227	3,098	1	3
MICHIGAN	\$201,919	9,316	1	38
MINNESOTA	\$13,821	585	6	91
MISSISSIPPI	\$16,150	952	5	18
MISSOURI	\$11,177	646	13	44
MONTANA	\$21,552	976	5	17
NEBRASKA	\$3,306	243	5	42
NEVADA	\$668	73	4	13
NEW HAMPSHIRE	\$3,168	154	2	12
NEW JERSEY	\$5,173	251	2	3
NEW MEXICO	\$37,341	1,513	3	14
NEW YORK	\$2,042,852	93,936	18	45
NORTH CAROLINA	\$18,091	1,393	13	28

Link-Up America

(Lifeline Connection Assistance and Deferred Payments)

January 1, 1990 through June 30, 1990

State	Reimbursement to Local Companies	Subscribers Receiving Assistance	Participating Study Areas	Total Study Areas
-----	-----	-----	-----	-----
NORTH DAKOTA	\$3,132	203	7	24
OHIO	\$134,378	7,295	10	44
OKLAHOMA	\$0	0	0	39
OREGON	\$11,698	1,848	13	34
PENNSYLVANIA	\$779,745	38,985	19	39
PUERTO RICO	\$48,914	2,795	1	2
RHODE ISLAND	\$7,601	505	1	1
SOUTH CAROLINA	\$20,953	826	14	28
SOUTH DAKOTA	\$4,884	279	1	31
TENNESSEE	\$43,153	1,846	15	25
TEXAS	\$305,519	10,727	12	58
UTAH	\$4,296	242	1	13
VERMONT	\$7,160	434	5	9
VIRGIN ISLANDS	\$0	0	0	1
VIRGINIA	\$81,106	4,843	15	21
WASHINGTON	\$0	0	0	23
WEST VIRGINIA	\$4,996	337	5	10
WISCONSIN	\$240,431	17,336	1	95
WYOMING	\$2,452	114	2	11
Subset 1 Total:	\$5,044,039	232,824	44	51
Subset 2 Total:	\$402,378	22,778	128	322
Subset 3 Total:	\$22,341	1,023	160	1,071
National Total:	\$5,468,758	256,625	492	1,444

NOTES: 1. Study Area is a Telephone Company's operation within a state.

2. Subset 1 includes RBOCs, Subset 2 includes other telephone companies with annual operating revenues greater than \$40 million, Subset 3 includes all others.

3. Data as reported by the companies as of April, 1991.

TABLE 2.3

Lifeline Assistance
(End User Subscriber Line Charge Waiver)

January 1, 1990 through June 30, 1990

State	Reimbursement to Local Companies	Subscribers Receiving Assistance	Participating Study Areas	Total Study Areas
=====	=====	=====	=====	=====
ALABAMA	\$0	0	0	30
ALASKA	\$0	0	0	25
ARIZONA	\$66,277	6,342	4	11
ARKANSAS	\$136,432	6,505	1	28
CALIFORNIA	\$15,681,801	1,493,382	22	22
COLORADO	\$0	0	0	27
CONNECTICUT	\$0	0	0	2
DELAWARE	\$0	0	0	1
DISTRICT OF COL	\$49,972	2,930	1	1
FLORIDA	\$0	0	0	13
GEORGIA	\$0	0	0	36
HAWAII	\$100,362	6,195	1	1
IDAHO	\$185,403	8,791	18	20
ILLINOIS	\$0	0	0	56
INDIANA	\$0	0	0	42
IOWA	\$0	0	0	153
KANSAS	\$0	0	0	40
KENTUCKY	\$0	0	0	19
LOUISIANA	\$0	0	0	20
MAINE	\$788,432	37,466	19	19
MARYLAND	\$105,579	5,027	1	2
MASSACHUSETTS	\$719,279	34,251	1	3
MICHIGAN	\$556,349	46,362	1	38
MINNESOTA	\$1,160,879	55,592	90	91
MISSISSIPPI	\$0	0	0	18
MISSOURI	\$313,114	14,908	1	44
MONTANA	\$119,041	5,657	7	17
NEBRASKA	\$0	0	0	42
NEVADA	\$58,173	5,274	3	13
NEW HAMPSHIRE	\$0	0	0	12
NEW JERSEY	\$0	0	0	3
NEW MEXICO	\$260,235	12,395	3	14
NEW YORK	\$5,355,127	297,761	43	45
NORTH CAROLINA	\$313,455	14,967	27	28
NORTH DAKOTA	\$92	5	1	24

Lifeline Assistance
(End User Subscriber Line Charge Waiver)

January 1, 1990 through June 30, 1990

State	Reimbursement to Local Companies	Subscribers Receiving Assistance	Participating Study Areas	Total Study Areas
OHIO	\$332,631	15,865	8	44
OKLAHOMA	\$0	0	0	39
OREGON	\$444,134	21,331	31	34
PENNSYLVANIA	\$0	0	0	39
PUERTO RICO	\$0	0	0	2
RHODE ISLAND	\$312,773	14,894	1	1
SOUTH CAROLINA	\$0	0	0	28
SOUTH DAKOTA	\$101,148	4,800	1	31
TENNESSEE	\$0	0	0	25
TEXAS	\$426,233	20,283	42	58
UTAH	\$282,224	14,461	2	13
VERMONT	\$376,782	17,904	9	9
VIRGIN ISLANDS	\$0	0	0	1
VIRGINIA	\$330,192	15,787	17	21
WASHINGTON	\$619,263	37,516	15	23
WEST VIRGINIA	\$116,509	5,546	6	10
WISCONSIN	\$90	7	1	95
WYOMING	\$0	0	0	11
Subset 1 Total:	\$24,180,187	1,805,221	28	51
Subset 2 Total:	\$4,734,036	393,497	98	322
Subset 3 Total:	\$397,758	23,486	251	1,071
National Total:	\$29,311,981	2,222,209	628	1,444

NOTES: 1. Study Area is a Telephone Company's operation within a state.

2. Subset 1 includes RBOCs, Subset 2 includes other telephone companies with annual operating revenues greater than \$40 million, Subset 3 includes all others.

3. Data as reported by the companies as of April, 1991.

TABLE 2.4

LIFELINE & LINK-UP STATE ELIGIBILITY QUALIFICATIONS

STATE	ENTITY	ELIGIBILITY CRITERIA	INCOME VERIFICATION
Alabama	Public Service Commission	Recipient of: SSI, AFDC, or Food Stamps	Medicaid or Food Stamp card
Arizona	Corporation Commission	Lifeline: Income below 150% poverty Link Up: Income at or below poverty and participant in Senior Telephone Discount Program	Arizona Dep't. of Economic Security
Arkansas	Public Service Commission	Recipient of: SSI, AFDC, HEAP, Food Stamps, Medicaid, or Subsidized housing	Local Exchange Companies
California	Public Utilities Commission	Income at or below 150% poverty	Self certified
Colorado	Public Utilities Commission	Recipient of: SSI, Old Age Pension, Aid to the Blind, or Aid to the Needy & Disabled	Dep't. of Social Services
Connecticut	Dep't. of Public Utility Control	Eligible for any low-income assistance or energy assistance program administered by the CT Dep't. of Human Resources or CT Dep't. of Income Maintenance or SSI	Applicable agency of those listed
District of Columbia	Public Service Commission	Over age 65 & eligible for LIHEAP or Complementary Energy Assistance Program	D.C. Energy Office
Florida	Public Service Commission	Recipient of: Food Stamps or Medicaid	Dep't. of Health & Rehabilitative Services

STATE	ENTITY	ELIGIBILITY CRITERIA	INCOME VERIFICATION
Georgia	Public Service Commission	Recipient of: SSI, AFDC, and/or Food Stamps	Dep't of Human Resources
Hawaii	Public Utilities Commission	Age 60 or older or handicapped with annual household income \$10,000 or less	Hawaiian Telephone Co.
Idaho	Public Utilities Commission	Recipient of: AFDC, Food Stamps, Aid to the Aged, Blind & Disabled, or Medical Assistance	Medical Assistance or Food Stamp ID card
Illinois	Illinois Commerce Commission	Recipient of public assistance in programs administered by the Illinois Dep't. of Public Aid	Dep't. of Public Aid
Indiana	Utility Regulatory Commission	Recipient of: SSI, AFDC, HEAP, Medicaid, or Food Stamps	Local Exchange Companies
Iowa	State Utilities Board	Recipient of: SSI, AFDC, LIHEAP, or Food Stamps	Local Exchange Companies
Kansas	Corporation Commission	Recipient of: SSI, AFDC, Food Stamps, Medicaid, or General Assistance	Local Exchange Companies
Kentucky	Public Service Commission	Recipient of: SSI, AFDC, Food Stamps, or Medical Assistance	Cabinet for Human Resources
Louisiana	Public Service Commission	Recipient of: SSI, AFDC, or Food Stamps	Medicaid or Food Stamp card
Maine	Public Utilities Commission	Recipient of: SSI, AFDC, HEAP, Medicaid, or Food Stamps	Dep't. of Human Services

STATE	ENTITY	ELIGIBILITY CRITERIA	INCOME VERIFICATION
Maryland	Public Service Commission	Recipient of: General Assistance	Dep't. of Human Resources
Massachusetts	Dep't of Public Utilities	Recipient of: SSI, AFDC, General Public Welfare, Food Stamps, Medicaid, and Fuel Assistance	Dep't of Public Welfare and/or Office of Fuel Assistance
Michigan	Public Service Commission	Income at or below 130% poverty	Dep't. of Social Services or Office of Services to the Aging
Minnesota	Public Utilities Commission	Age 65 or older or Income level which meets state poverty levels	Dep't. of Human Services
Mississippi	Public Service Commission	Recipient of: SSI, AFDC, or Food Stamps	Medicaid or Food Stamp card
Missouri	Public Service Commission	Recipient of: Medicaid	Dep't. of Social Services
Montana	GTE, Inc.	Recipient of: SSI, AFDC, or Medicaid	Medicaid card & Social & Rehabilitation Services
Nebraska	Public Service Commission	Recipient of: SSI, AFDC, Energy Assistance, Food Stamps, Medicaid, or Aid to the Aged, Blind or Disabled	Medicaid Agency or Dep't. of Social Service or Food Stamp program
Nevada	Public Service Commission	Recipient of: SSI, AFDC, Energy Assistance, Food Stamps, Indian General Assist., Commodity Foods, or VA Improved Pension	Proof of enrollment in listed programs

STATE	ENTITY	ELIGIBILITY CRITERIA	INCOME VERIFICATION
New Hampshire	Public Utilities Commission	Recipient of: SSI, AFDC, Food Stamps, Fuel Assistance, Old Age Assistance, Weatherization Assist., Aid to Permanently/ Totally Disabled, Women, Infants & Children Feeding Program Welfare, Title XX, or Subsidized Housing	Respective donor agency
New Jersey	Public Service Commission	Recipient of: SSI, AFDC, HEAP, Pharmaceutical Assist. to the Aged, Welfare, or Lifeline Credit	Local Exchange Companies
New Mexico	Mountain Bell Tel.	Recipient of: SSI, AFDC, or LITAP	Medicaid card
	Continental Tel. Co.	Recipient of: SSI, AFDC, or Coordinated Community In-Home Care (CCIC)	Human Services Dept.
	Western NM Tel. Co.	Recipient of: SSI, AFDC, or CCIC	Human Services Dept.
New York	Dep't. of Public Services	Recipient of: SSI, AFDC, Food Stamps, Medicaid, or Home Relief	Administering Agency
North Carolina	Utilities Commission	Recipient of: SSI or AFDC	Dep't. of Human Resources
North Dakota	Public Service Commission	Eligible for: Food Stamps, Fuel Assist., AFDC, Medical Assist.	County Social Service Board
Ohio	Public Utilities Commission	Recipient of: HEAP, E-Heap, Ohio Energy Credits Program, SSI, AFDC and Medicaid	Local Exchange Companies

STATE	ENTITY	ELIGIBILITY CRITERIA	INCOME VERIFICATION
Oklahoma	Corporate Commission	Recipient of aid from state low income programs	Dep't. of Human Services
Oregon	Public Utilities Commission	Eligible for: Food Stamps	Dep't. of Human Resources
Pennsylvania	Public Utilities Commission	Recipient of: SSI, AFDC, Food Stamps, General Assistance, or Blue Card Medical Ass. Medically Needy Only	Dep't. of Public Welfare
Puerto Rico	PR Tel. Co.	Recipient of: Nutritional Assistance Program	Dep't. of Social Services
Rhode Island	Public Utilities Commission	Recipient of: SSI, AFDC, General Assistance, or Medical Assistance	Dep't. of Human Services
South Carolina	Public Service Commission	Recipient of: AFDC, Food Stamps, Medicaid, or Temporary Emergency Food Assistance	Local Exchange Companies
South Dakota	Northwestern Bell	Recipient of: HEAP or Food Stamps	Dep't. of Social Services
Tennessee	Public Service Commission	Recipient of: SSI, AFDC, Medicaid, or Food Stamps	Medicaid card or Food Stamp Notice of Disposition
Texas	Public Utilities Commission	Eligible for: SSI, AFDC, LIHEAP, Food Stamps, Medicaid, Medical Assistance, or Maternal Health Program	Local Exchange Companies

STATE	ENTITY	ELIGIBILITY	INCOME VERIFICATION
Utah	Public Service Commission	Eligible for: SSI, AFDC, Food Stamps, General Assistance, Home Energy Assistance, Medical Assistance, Refugee Assistance, or Energy Work Programs	Local Exchange Companies
Vermont	Public Service Board	Recipient of: SSI, AFDC, Food Stamps, Medicaid, or Fuel Assistance	Dep't. of Social Welfare
Virginia	Corporation Commission	Recipient of: Virginia Universal Service Plan	Dep't. of Medical Assist. Services
Washington	Utilities & Transportation Commission	Recipient of: SSI, AFDC, Food Stamps, Refugee Assistance, Chore Services, or Community Options Program Entry System	Dep't. of Social & Health Services
West Virginia	Public Service Commission	Disabled or age 60 or older & receives SSI, AFDC or Food Stamps or is eligible for SSI	Dep't. of Human Services
Wisconsin	Wisconsin Bell	Recipient of: AFDC, SSI, Food Stamps, Title 19 Medical and Energy Programs	Dep't. of Health and Social Services
Wyoming	US West	Recipient of: SSI, AFDC, LIEAP, or Food Stamps	Dep't. of Health & Social Services
	United Tel. Co.	Recipient of: SSI, AFDC, LIEAP, Food Stamps, or Food Distribution Program	Dep't. of Health & Social Services

TABLE 2.5

LIFELINE END USER CHARGES WAIVED

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
AL	30	Study Area Total	\$0	\$0	\$0
AK	25	Study Area Total	\$0	\$0	\$0
AZ	452171	ARIZONA TELEPHONE CO	\$0	\$30	\$30
AZ	452172	CITIZENS UTILITIES	\$1,690	\$1,689	\$3,379
AZ	452177	CONTEL OF WEST-AZ	\$2,998	\$2,922	\$5,920
AZ	452302	CONTEL CALIF - AZ	\$417	\$393	\$810
AZ	455101	MOUNTAIN BELL - AZ	\$61,172	\$65,183	\$126,355
AZ	10	Study Area Total	\$66,277	\$70,217	\$136,494
AR	405211	SOUTHWESTERN BELL-AR	\$136,432	\$140,310	\$276,742
AR	28	Study Area Total	\$136,432	\$140,310	\$276,742
CA	542301	CALAVERAS TEL CO	\$1,594	\$1,832	\$3,426
CA	542302	CONTEL OF CALIFORNIA	\$399,336	\$371,537	\$770,873
CA	542304	C P NATIONAL CORP-CA	\$27,266	\$29,493	\$56,759
CA	542308	CITIZENS UTIL OF CA	\$93,321	\$90,065	\$183,386
CA	542311	CALIF-OREGON TEL CO	\$5,496	\$5,660	\$11,156
CA	542313	DUCOR TELEPHONE CO	\$1,493	\$1,714	\$3,207
CA	542315	EVANS TEL CO.	\$16,460	\$14,740	\$31,200
CA	542318	FORESTHILL TEL CO.	\$1,344	\$1,783	\$3,127
CA	542319	GTC OF CALIFORNIA	\$2,643,904	\$2,504,911	\$5,148,815
CA	542321	HAPPY VALLEY TEL CO	\$4,948	\$4,556	\$9,504
CA	542322	HORNITOS TEL CO	\$743	\$860	\$1,603
CA	542323	WINTERHAVEN TEL. CO.	\$3,986	\$3,011	\$6,997
CA	542324	KERMAN TELEPHONE CO	\$15,682	\$14,992	\$30,674
CA	542332	THE PONDEROSA TEL CO	\$8,092	\$8,099	\$16,191
CA	542334	ROSEVILLE TEL CO	\$45,724	\$45,025	\$90,749
CA	542338	SIERRA TELEPHONE CO	\$27,789	\$28,958	\$56,747
CA	542339	THE SISKIYOU TEL CO	\$7,261	\$6,663	\$13,924
CA	542342	TUOLUMNE TEL CO	\$12,822	\$13,326	\$26,148
CA	542343	THE VOLCANO TEL CO	\$4,190	\$4,184	\$8,374
CA	542344	WEST COAST TEL OF CA	\$13,224	\$13,472	\$26,696
CA	542346	PINNACLES TEL CO	\$88	\$98	\$186
CA	545170	PACIFIC BELL	\$12,347,038	\$13,396,971	\$25,744,009
CA	22	Study Area Total	\$15,681,801	\$16,561,950	\$32,243,751
CO	465102	MOUNTAIN BELL-CO	\$0	\$173,248	\$173,248
CO	27	Study Area Total	\$0	\$173,248	\$173,248

LIFELINE END USER CHARGES WAIVED

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
CT	2	Study Area Total	\$0	\$0	\$0
DE	1	Study Area Total	\$0	\$0	\$0
DC	575020	C & P TEL CO OF WASH	\$49,972	\$50,008	\$99,980
DC	1	Study Area Total	\$49,972	\$50,008	\$99,980
FL	13	Study Area Total	\$0	\$0	\$0
GA	36	Study Area Total	\$0	\$0	\$0
HI	623100	GTE HAWAIIAN TEL. CO	\$100,362	\$98,518	\$198,880
HI	1	Study Area Total	\$100,362	\$98,518	\$198,880
ID	472177	CONTEL OF WEST-ID	\$9,822	\$10,025	\$19,847
ID	472213	ALBION TEL CO INC	\$299	\$291	\$590
ID	472215	CAMBRIDGE TEL CO	\$340	\$351	\$691
ID	472218	CUSTER TEL COOP	\$546	\$546	\$1,092
ID	472220	FILER MUTUAL TEL -ID	\$719	\$692	\$1,411
ID	472221	FARMERS MUTUAL TEL	\$1,275	\$1,138	\$2,413
ID	472223	GEM STATE UTIL-ID	\$884	\$744	\$1,628
ID	472225	CENTURY TEL OF IDAHO	\$1,864	\$1,601	\$3,465
ID	472226	MIDVALE TEL EXCH INC	\$252	\$360	\$612
ID	472227	MUD LAKE TEL COOP	\$267	\$325	\$592
ID	472230	POTLATCH TEL CO INC	\$849	\$814	\$1,663
ID	472231	PROJECT MUTUAL TEL	\$3,669	\$3,263	\$6,932
ID	472232	ROCKLAND TEL CO INC	\$168	\$137	\$305
ID	472234	TROY TELEPHONE CO	\$146	\$150	\$296
ID	472295	SILVER STAR TEL- ID	\$369	\$336	\$705
ID	472416	GTE NORTHWEST INC-ID	\$36,579	\$36,182	\$72,761
ID	475103	MOUNTAIN BELL-ID	\$114,097	\$104,585	\$218,682
ID	475162	PACIFIC NW BELL-ID	\$13,258	\$12,245	\$25,503
ID	20	Study Area Total	\$185,403	\$173,785	\$359,188
IL	340985	CENTEL OF ILLINOIS	\$0	\$11	\$11
IL	341066	ONEIDA TEL EXCHANGE	\$0	\$7	\$7
IL	56	Study Area Total	\$0	\$18	\$18

LIFELINE END USER CHARGES WAIVED

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
IN	42	Study Area Total	\$0	\$0	\$0
IA	153	Study Area Total	\$0	\$0	\$0
KS	40	Study Area Total	\$0	\$0	\$0
KY	19	Study Area Total	\$0	\$0	\$0
LA	20	Study Area Total	\$0	\$0	\$0
ME	100002	BRYANT POND TEL CO	\$632	\$677	\$1,309
ME	100003	LINCOLNVILLE TEL CO	\$512	\$760	\$1,272
ME	100004	CHINA TEL CORP	\$1,625	\$2,039	\$3,664
ME	100005	COBOSSEECONTEE TEL	\$464	\$529	\$993
ME	100007	ISLAND TEL CO	\$42	\$42	\$84
ME	100010	HAMPDEN TEL CO	\$1,675	\$2,046	\$3,721
ME	100011	HARTLAND & ST ALBANS	\$4,589	\$6,151	\$10,740
ME	100014	CONTEL OF MAINE	\$53,650	\$64,954	\$118,604
ME	100015	COMMUNITY SERVICE	\$8,393	\$9,641	\$18,034
ME	100019	OXFORD COUNTY TEL	\$6,427	\$7,568	\$13,995
ME	100020	PINE TREE TEL & TEL	\$1,636	\$2,248	\$3,884
ME	100022	SACO RIVER TEL & TEL	\$3,573	\$4,716	\$8,289
ME	100024	SOMERSET TEL CO	\$11,083	\$13,568	\$24,651
ME	100025	STANDISH TEL CO	\$3,883	\$5,157	\$9,040
ME	100027	UNION RIVER TEL CO	\$1,135	\$1,957	\$3,092
ME	100029	UNITY TEL CO., INC.	\$4,544	\$5,529	\$10,073
ME	100031	WARREN TEL CO	\$1,768	\$1,976	\$3,744
ME	100034	WEST PENOBSCOT TEL	\$3,161	\$3,987	\$7,148
ME	105111	NEW ENGLAND TEL-ME	\$679,640	\$799,017	\$1,478,657
ME	19	Study Area Total	\$788,432	\$932,562	\$1,720,994
MD	185030	C & P TEL CO OF MD	\$105,579	\$114,767	\$220,346
MD	2	Study Area Total	\$105,579	\$114,767	\$220,346
MA	115112	NEW ENGLAND TEL-MA	\$719,279	\$1,832,975	\$2,552,254
MA	3	Study Area Total	\$719,279	\$1,832,975	\$2,552,254

LIFELINE END USER CHARGES WAIVED

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
MI	310675	BARAGA TEL CO	\$0	\$505	\$505
MI	310695	GTE NORTH INC. - MI	\$0	\$51,423	\$51,423
MI	310703	KALEVA TEL CO	\$0	\$94	\$94
MI	310728	SPRINGPORT TEL CO	\$0	\$4	\$4
MI	310738	WOLVERINE TEL CO	\$0	\$319	\$319
MI	315090	MICHIGAN BELL TEL CO	\$556,349	\$751,108	\$1,307,457
MI	38	Study Area Total	\$556,349	\$803,453	\$1,359,802
MN	361140	CONTEL OF MINNESOTA	\$79,945	\$91,235	\$171,180
MN	361186	GTE NORTH INC. - MN	\$2,642	\$2,683	\$5,325
MN	361337	WINNEBAGO COOP ASSN	\$146	\$318	\$464
MN	361346	ACE TEL ASSN-MN	\$6,879	\$6,388	\$13,267
MN	361347	ALBANY MUTUAL ASSN	\$2,192	\$2,233	\$4,425
MN	361350	ARVIG TEL CO	\$7,036	\$8,123	\$15,159
MN	361353	CITY OF BARNESVILLE	\$1,097	\$1,405	\$2,502
MN	361356	BENTON COOP TEL CO	\$1,681	\$1,502	\$3,183
MN	361357	BLACKDUCK TEL CO	\$1,686	\$1,469	\$3,155
MN	361358	BLUE EARTH VALLEY	\$2,329	\$2,304	\$4,633
MN	361362	BRIDGEWATER TEL CO	\$2,188	\$2,597	\$4,785
MN	361365	CALLAWAY TEL CO	\$226	\$228	\$454
MN	361367	CENTEL OF MN	\$32,489	\$39,070	\$71,559
MN	361370	CLARA CITY TEL EXCH	\$0	\$162	\$162
MN	361372	CLEMENTS TEL CO	\$77	\$72	\$149
MN	361373	CONSOLIDATED TEL CO	\$3,027	\$3,521	\$6,548
MN	361374	ARROWHEAD COMM CORP	\$600	\$612	\$1,212
MN	361375	MID-COMMUNICATIONS	\$2,647	\$2,880	\$5,527
MN	361377	DANUBE TEL CO	\$24	\$0	\$24
MN	361379	DEER RIVER TEL CO	\$1,674	\$1,545	\$3,219
MN	361380	DELAVAN TEL CO	\$210	\$228	\$438
MN	361381	DUNNELL TEL CO	\$46	\$60	\$106
MN	361383	EAGLE VALLEY TEL CO	\$1,800	\$1,884	\$3,684
MN	361384	EASTON TEL CO	\$35	\$42	\$77
MN	361385	EAST OTTER TAIL TEL	\$9,473	\$10,320	\$19,793
MN	361386	ECKLES TEL CO	\$333	\$309	\$642
MN	361387	EMILY COOP TEL CO	\$588	\$614	\$1,202
MN	361389	FARMERS MUTUAL TEL	\$848	\$775	\$1,623
MN	361390	FEDERATED TEL COOP	\$1,468	\$1,475	\$2,943
MN	361391	FELTON TEL CO. INC.	\$474	\$539	\$1,013
MN	361395	GARDEN VALLEY TEL CO	\$21,895	\$22,763	\$44,658
MN	361396	GARDONVILLE COOP TEL	\$1,444	\$1,593	\$3,037
MN	361399	GRANADA TEL CO	\$273	\$218	\$491
MN	361401	HALSTAD TEL CO	\$1,497	\$1,697	\$3,194
MN	361403	HANCOCK TEL CO - MN	\$484	\$424	\$908

LIFELINE END USER CHARGES WAIVED

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
==	=====	=====	=====	=====	=====
MN	361404	HARMONY TEL CO	\$789	\$827	\$1,616
MN	361405	HILLS TEL CO, INC	\$210	\$204	\$414
MN	361407	HOHMAN TEL CO	\$3,634	\$4,806	\$8,440
MN	361408	HOME TEL CO - MN	\$1,178	\$1,234	\$2,412
MN	361409	HUTCHINSON TEL CO	\$1,914	\$2,073	\$3,987
MN	361410	JOHNSON TEL CO	\$2,405	\$2,535	\$4,940
MN	361412	KASSON & MANTORVILLE	\$845	\$866	\$1,711
MN	361413	K M P TEL CO	\$1,017	\$1,051	\$2,068
MN	361414	LAKEDALE TEL CO	\$5,809	\$5,829	\$11,638
MN	361419	LISMORE COOP TEL CO	\$80	\$180	\$260
MN	361422	LONSDALE TEL CO	\$974	\$915	\$1,889
MN	361423	LOWRY TEL CO	\$1,435	\$1,540	\$2,975
MN	361424	MABEL COOP TEL - MN	\$543	\$584	\$1,127
MN	361425	MADELIA TEL CO	\$1,656	\$1,548	\$3,204
MN	361426	MANCHESTER-HARTLAND	\$157	\$214	\$371
MN	361427	MANKATO CITIZENS TEL	\$4,854	\$5,380	\$10,234
MN	361430	MELROSE TEL CO	\$10,832	\$12,881	\$23,713
MN	361431	MIDWEST TEL CO	\$2,291	\$3,099	\$5,390
MN	361433	MID STATE TEL CO	\$5,416	\$5,685	\$11,101
MN	361437	MINNESOTA LAKE TEL	\$478	\$482	\$960
MN	361439	MINNESOTA VALLEY TEL	\$1,131	\$1,145	\$2,276
MN	361440	CANNON VLY TELECOM	\$833	\$690	\$1,523
MN	361442	NEW ULM TELECOM, INC	\$6,172	\$6,790	\$12,962
MN	361443	NORMAN COUNTY TEL CO	\$2,907	\$3,110	\$6,017
MN	361445	NORTHLAND TEL CO	\$708	\$666	\$1,374
MN	361448	OSAKIS TEL CO	\$1,021	\$1,627	\$2,648
MN	361450	PARK REGION MUTUAL	\$1,422	\$1,643	\$3,065
MN	361451	PAUL BUNYAN RURAL	\$2,892	\$3,114	\$6,006
MN	361453	PEOPLES TEL CO - MN	\$4,102	\$4,302	\$8,404
MN	361454	PINE ISLAND TEL CO	\$1,150	\$1,194	\$2,344
MN	361456	UTC OF MINNESOTA	\$40,202	\$47,219	\$87,421
MN	361472	REDWOOD COUNTY TEL	\$5,260	\$5,241	\$10,501
MN	361473	ROCK DELL TEL CO	\$24	\$59	\$83
MN	361474	ROTHSAY TEL CO, INC	\$201	\$210	\$411
MN	361475	RUNESTONE TEL ASSN	\$3,589	\$3,820	\$7,409
MN	361476	SACRED HEART TEL CO	\$156	\$180	\$336
MN	361479	SCOTT RICE TEL CO	\$706	\$1,439	\$2,145
MN	361482	SHERBURNE CTY RURAL	\$588	\$0	\$588
MN	361483	SLEEPY EYE TEL CO	\$3,043	\$3,157	\$6,200
MN	361485	SPRING GROVE COOP	\$219	\$263	\$482
MN	361487	STARBUCK TEL CO	\$889	\$1,119	\$2,008
MN	361491	TWIN VALLEY-ULEN TEL	\$3,957	\$3,931	\$7,888
MN	361494	UPSALA COOP TEL ASSN	\$1,649	\$1,759	\$3,408
MN	361495	VALLEY TEL CO - MN	\$775	\$939	\$1,714

LIFELINE END USER CHARGES WAIVED

ST	SA Code	SA Name	Actual		Total
			Jan 90 - Jun 90	Jul 90 - Dec 90	
MN	361499	CROSSLAKE TEL CO	\$202	\$382	\$584
MN	361500	NORTHERN TEL CO - MN	\$42	\$42	\$84
MN	361501	WEST CENTRAL TEL	\$5,276	\$5,398	\$10,674
MN	361502	WESTERN TEL CO	\$2,087	\$2,124	\$4,211
MN	361505	WIKSTROM TEL CO, INC	\$8,621	\$9,187	\$17,808
MN	361507	WINSTED TEL CO	\$60	\$60	\$120
MN	361508	WINTHROP TEL CO	\$866	\$837	\$1,703
MN	361510	WOODSTOCK TEL CO	\$838	\$816	\$1,654
MN	361512	WOLVERTON TEL CO	\$35	\$42	\$77
MN	361515	ZUMBROTA TEL CO	\$443	\$477	\$920
MN	361654	INTERSTATE TELECOMM.	\$1,647	\$1,610	\$3,257
MN	365142	NORTHWESTERN BELL-MN	\$821,196	\$822,814	\$1,644,010

MN	91	Study Area Total	\$1,160,879	\$1,200,627	\$2,361,506

MS	20	Study Area Total	\$0	\$0	\$0

MO	425213	SOUTHWESTERN BELL-MO	\$313,114	\$307,491	\$620,605

MO	44	Study Area Total	\$313,114	\$307,491	\$620,605

MT	482235	BLACKFOOT TEL COOP	\$1,061	\$1,129	\$2,190
MT	482244	LINCOLN TEL CO INC	\$85	\$50	\$135
MT	482246	MID-RIVERS TEL COOP	\$695	\$706	\$1,401
MT	482247	NEMONT TEL COOP-MT	\$30	\$42	\$72
MT	482250	PROJECT TEL CO	\$23	\$54	\$77
MT	482416	GTE NORTHWEST INC-MT	\$2,072	\$1,905	\$3,977
MT	485104	MOUNTAIN BELL-MT	\$115,075	\$111,767	\$226,842

MT	17	Study Area Total	\$119,041	\$115,653	\$234,694

NE	42	Study Area Total	\$0	\$0	\$0

NV	552302	CONTEL OF CALIF-NV	\$350	\$484	\$834
NV	552348	CENDEL OF NV	\$27,701	\$31,454	\$59,155
NV	555173	NEVADA BELL	\$30,122	\$32,178	\$62,300

NV	13	Study Area Total	\$58,173	\$64,116	\$122,289

NH	12	Study Area Total	\$0	\$0	\$0

LIFELINE END USER CHARGES WAIVED

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
==	=====	=====	=====	=====	=====
NJ	3	Study Area Total	\$0	\$0	\$0
NM	492177	CONTEL OF WEST - NM	\$10,834	\$12,571	\$23,405
NM	492268	WESTERN NEW MEXICO	\$2,178	\$2,191	\$4,369
NM	495105	MOUNTAIN BELL-NM	\$247,223	\$253,395	\$500,618
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NM	14	Study Area Total	\$260,235	\$268,157	\$528,392
NY	150071	ARMSTRONG TEL CO-NY	\$1,422	\$1,623	\$3,045
NY	150072	AU SABLE VALLEY TEL	\$1,851	\$1,937	\$3,788
NY	150073	BERKSHIRE TEL CORP	\$467	\$422	\$889
NY	150076	CASSADAGA TEL CORP	\$46	\$53	\$99
NY	150078	CHAUTAUQUA & ERIE	\$839	\$774	\$1,613
NY	150079	CHAZY & WESTPORT	\$649	\$591	\$1,240
NY	150081	CITIZENS HAMMOND NY	\$274	\$340	\$614
NY	150082	CLYMER TEL CO	\$100	\$96	\$196
NY	150084	TACONIC TEL CORP	\$3,847	\$4,090	\$7,937
NY	150085	CROWN POINT TEL CORP	\$251	\$247	\$498
NY	150088	DELHI TEL CO	\$391	\$414	\$805
NY	150089	DEPOSIT TEL CO	\$5,243	\$5,858	\$11,101
NY	150091	DUNKIRK & FREDONIA	\$258	\$258	\$516
NY	150092	EDWARDS TEL CO	\$1,290	\$1,532	\$2,822
NY	150093	EMPIRE TEL CORP	\$2,161	\$2,374	\$4,535
NY	150096	CONTEL OF NY, INC	\$56,424	\$57,457	\$113,881
NY	150097	GERMANTOWN TEL CO	\$348	\$356	\$704
NY	150099	HANCOCK TEL CO	\$317	\$300	\$617
NY	150100	HIGHLAND TEL CO	\$4,710	\$5,000	\$9,710
NY	150104	MARGARETVILLE TEL CO	\$516	\$516	\$1,032
NY	150105	MIDDLEBURGH TEL CO	\$476	\$635	\$1,111
NY	150106	ALLTEL NY-FULTON	\$10,530	\$10,466	\$20,996
NY	150107	NEWPORT TEL CO	\$1,024	\$1,027	\$2,051
NY	150108	NICHOLVILLE TEL CO	\$210	\$249	\$459
NY	150109	ALLTEL NY-JAMESTOWN	\$10,107	\$9,832	\$19,939
NY	150110	OGDEN TEL CO	\$924	\$900	\$1,824
NY	150111	ONEIDA COUNTY RURAL	\$522	\$680	\$1,202
NY	150112	ONTARIO TEL CO	\$642	\$717	\$1,359
NY	150113	ALLTEL NY-RED JACKET	\$625	\$559	\$1,184
NY	150114	ORISKANY FALLS TEL	\$330	\$415	\$745
NY	150116	PATTERSONVILLE TEL	\$430	\$412	\$842
NY	150118	PORT BYRON TEL CO	\$1,390	\$1,347	\$2,737
NY	150119	RED HOOK TEL CO	\$1,266	\$1,341	\$2,607
NY	150121	ROCHESTER TEL CORP	\$123,979	\$131,239	\$255,218
NY	150122	SENECA-GORHAM TEL	\$750	\$768	\$1,518

LIFELINE END USER CHARGES WAIVED

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
NY	150125	STATE TEL CO	\$3,062	\$2,976	\$6,038
NY	150128	SYLVAN LAKE TEL CO	\$544	\$536	\$1,080
NY	150129	TOWNSHIP TEL CO	\$524	\$444	\$968
NY	150131	TRUMANSBURG HOME TEL	\$1,022	\$1,024	\$2,046
NY	150133	VERNON TEL CO	\$499	\$571	\$1,070
NY	150135	WARWICK VALLEY-NY	\$270	\$270	\$540
NY	150136	WESTERN COUNTIES TEL	\$4,750	\$4,912	\$9,662
NY	155130	NEW YORK TEL CO	\$5,109,847	\$5,767,078	\$10,876,925
NY	45	Study Area Total	\$5,355,127	\$6,022,636	\$11,377,763
NC	230468	ATLANTIC MEMBERSHIP	\$602	\$707	\$1,309
NC	230469	BARNARDSVILLE TEL CO	\$60	\$10	\$70
NC	230470	CAROLINA TEL & TEL	\$152,193	\$146,717	\$298,910
NC	230471	CENDEL OF NC	\$12,602	\$12,116	\$24,718
NC	230473	CITIZENS TEL CO	\$2,123	\$2,200	\$4,323
NC	230474	CONCORD TEL CO	\$998	\$1,436	\$2,434
NC	230476	ALLTEL CAROLINA-NO	\$2,499	\$2,444	\$4,943
NC	230478	ELLERBE TEL CO	\$383	\$373	\$756
NC	230479	GTE SOUTH INC - NC	\$815	\$981	\$1,796
NC	230481	HEINS TEL CO	\$2,294	\$2,282	\$4,576
NC	230483	LEXINGTON TEL CO	\$1,469	\$1,293	\$2,762
NC	230485	MEBANE HOME TEL CO	\$513	\$531	\$1,044
NC	230491	NORTH STATE TEL CO	\$3,781	\$3,491	\$7,272
NC	230494	PINEVILLE TEL CO	\$18	\$18	\$36
NC	230495	RANDOLPH TEL CO	\$166	\$168	\$334
NC	230496	RANDOLPH MEMBERSHIP	\$65	\$66	\$131
NC	230497	PIEDMONT MEMBERSHIP	\$152	\$150	\$302
NC	230498	SALUDA MOUNTAIN TEL	\$46	\$11	\$57
NC	230499	SANDHILL TEL CO	\$63	\$74	\$137
NC	230501	SKYLINE MEMBERSHIP	\$2,147	\$2,577	\$4,724
NC	230502	STAR MEMBERSHIP CORP	\$858	\$848	\$1,706
NC	230503	SURRY MEMBERSHIP	\$1,275	\$1,338	\$2,613
NC	230505	TRI COUNTY TEL MEMBR	\$75	\$66	\$141
NC	230509	CONTEL OF NC	\$17,856	\$17,911	\$35,767
NC	230510	WILKES MEMBERSHIP	\$379	\$351	\$730
NC	230511	YADKIN VALLEY TEL	\$1,563	\$1,548	\$3,111
NC	235193	SOUTHERN BELL-NC	\$108,460	\$114,553	\$223,013
NC	28	Study Area Total	\$313,455	\$314,260	\$627,715
ND	381631	RED RIVER RURAL TEL	\$92	\$126	\$218
ND	385144	NORTHWESTERN BELL-ND	\$0	\$201,596	\$201,596
ND	24	Study Area Total	\$92	\$201,722	\$201,814

LIFELINE END USER CHARGES WAIVED

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
OH	300611	ELYRIA TEL CO	\$561	\$450	\$1,011
OH	300615	GTE NORTH INC. - OH	\$146,853	\$153,536	\$300,389
OH	300630	CENDEL OF OHIO	\$174	\$125	\$299
OH	300637	ALLTEL OHIO-NEWARK	\$536	\$407	\$943
OH	300661	UTC OF OHIO	\$7,001	\$6,061	\$13,062
OH	300665	ALLTEL OHIO-WEST OH	\$0	\$779	\$779
OH	300666	WESTERN RESERVE TEL	\$1,570	\$1,328	\$2,898
OH	305062	CINCINNATI BELL-OH	\$5,184	\$4,943	\$10,127
OH	305150	OHIO BELL TEL CO	\$170,752	\$143,736	\$314,488
OH	44	Study Area Total	\$332,631	\$311,365	\$643,996
OK	39	Study Area Total	\$0	\$0	\$0
OR	532226	MIDVALE TEL EXCH -OR	\$24	\$24	\$48
OR	532304	C P NATIONAL CORP-OR	\$6,264	\$8,661	\$14,925
OR	532359	BEAVER CREEK COOP	\$348	\$281	\$629
OR	532361	TEL UTIL OF OREGON	\$13,612	\$12,370	\$25,982
OR	532362	CANBY TEL ASSN	\$1,254	\$1,074	\$2,328
OR	532363	CLEAR CREEK MUTUAL	\$200	\$168	\$368
OR	532364	COLTON TEL CO	\$216	\$150	\$366
OR	532369	EAGLE TEL SYSTEMS	\$160	\$169	\$329
OR	532371	CASCADE UTIL INC	\$1,520	\$1,233	\$2,753
OR	532373	GERVAIS TELEPHONE CO	\$123	\$69	\$192
OR	532375	RTI/HALSEY TEL CO	\$104	\$114	\$218
OR	532376	HELIX TEL CO.	\$42	\$42	\$84
OR	532377	HOME TELEPHONE CO	\$277	\$276	\$553
OR	532378	TRANS-CASCADES TEL	\$25	\$24	\$49
OR	532383	MOLALLA TEL CO.	\$1,566	\$1,089	\$2,655
OR	532384	MONITOR COOP TEL	\$24	\$23	\$47
OR	532385	MONROE TELEPHONE CO.	\$210	\$210	\$420
OR	532386	MT. ANGEL TEL CO.	\$607	\$463	\$1,070
OR	532387	NEHALEM TEL & TEL	\$218	\$168	\$386
OR	532388	NORTH STATE TEL CO.	\$42	\$42	\$84
OR	532389	OREGON TEL CORP	\$327	\$405	\$732
OR	532392	PINE TEL SYSTEM INC.	\$310	\$270	\$580
OR	532393	PIONEER TEL COOP	\$2,504	\$2,009	\$4,513
OR	532396	ST PAUL COOP ASSN	\$100	\$84	\$184
OR	532397	SCIO MUTUAL TEL ASSN	\$431	\$387	\$818
OR	532399	STAYTON COOP TEL CO	\$2,447	\$2,344	\$4,791
OR	532400	UTC OF THE NW - OR	\$15,893	\$14,926	\$30,819
OR	532416	GTE NORTHWEST INC-OR	\$55,559	\$54,591	\$110,150
OR	532449	CONTEL OF THE NW- OR	\$5,086	\$4,481	\$9,567

LIFELINE END USER CHARGES WAIVED

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
OR	532456	MALHEUR HOME TEL CO	\$4,314	\$4,314	\$8,628
OR	535163	PACIFIC NW BELL-OR	\$330,327	\$340,134	\$670,461
OR	34	Study Area Total	\$444,134	\$450,595	\$894,729
PA	39	Study Area Total	\$0	\$0	\$0
PR	2	Study Area Total	\$0	\$0	\$0
RI	585114	NEW ENGLAND TEL - RI	\$312,773	\$330,887	\$643,660
RI	1	Study Area Total	\$312,773	\$330,887	\$643,660
SC	28	Study Area Total	\$0	\$0	\$0
SD	395145	NORTHWESTERN BELL-SD	\$101,148	\$100,805	\$201,953
SD	31	Study Area Total	\$101,148	\$100,805	\$201,953
TN	25	Study Area Total	\$0	\$0	\$0
TX	442038	BLOSSOM TEL CO	\$116	\$192	\$308
TX	442039	BIG BEND TEL CO INC	\$433	\$471	\$904
TX	442040	BRAZORIA TEL CO	\$142	\$295	\$437
TX	442041	BRAZOS TEL COOP INC	\$0	\$12	\$12
TX	442043	BYERS & PETROLIA TEL	\$108	\$126	\$234
TX	442046	CAP ROCK TEL CO INC	\$872	\$559	\$1,431
TX	442052	CENTRAL TEXAS CO-OP	\$357	\$482	\$839
TX	442059	COLORADO VALLEY TEL	\$461	\$666	\$1,127
TX	442060	COMANCHE COUNTY TEL	\$505	\$792	\$1,297
TX	442065	CUMBY TEL COOP INC	\$48	\$77	\$125
TX	442068	EASTEX TEL COOP INC	\$2,261	\$3,923	\$6,184
TX	442069	ELECTRA TELEPHONE CO	\$240	\$228	\$468
TX	442070	ETEX TEL COOP INC	\$921	\$1,971	\$2,892
TX	442071	FIVE AREA TEL CO-OP	\$34	\$82	\$116
TX	442072	FORT BEND TEL CO	\$352	\$495	\$847
TX	442076	GANADO TELEPHONE CO	\$69	\$120	\$189
TX	442080	GTE SOUTHWEST INC-TX	\$59,534	\$96,560	\$156,094
TX	442083	GUADALUPE VALLEY TEL	\$10	\$0	\$10
TX	442084	UTC OF TEXAS INC	\$20,875	\$37,627	\$58,502

LIFELINE END USER CHARGES WAIVED

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
TX	442086	HILL COUNTRY CO-OP	\$199	\$385	\$584
TX	442093	INDUSTRY TEL CO	\$36	\$126	\$162
TX	442097	KERRVILLE TEL CO	\$595	\$1,191	\$1,786
TX	442101	LAKE DALLAS TEL CO	\$0	\$44	\$44
TX	442103	LA WARD TEL EXCHANGE	\$34	\$62	\$96
TX	442105	LIPAN TEL CO	\$18	\$14	\$32
TX	442107	LIVINGSTON TEL CO	\$0	\$686	\$686
TX	442109	LUFKIN-CONROE TEL EX	\$4,560	\$8,467	\$13,027
TX	442114	CENDEL OF TEXAS	\$4,254	\$6,626	\$10,880
TX	442116	MUENSTER TEL CORP-TX	\$24	\$66	\$90
TX	442130	PEOPLES TEL COOP -TX	\$566	\$974	\$1,540
TX	442131	POKA-LAMBRO TEL COOP	\$153	\$203	\$356
TX	442134	RIVIERA TEL CO INC	\$62	\$123	\$185
TX	442135	SOUTHWEST TEXAS TEL	\$336	\$470	\$806
TX	442140	SAN MARCOS TEL CO	\$573	\$1,384	\$1,957
TX	442141	SANTA ROSA TEL COOP	\$126	\$68	\$194
TX	442147	SUGAR LAND TEL CO	\$373	\$592	\$965
TX	442151	TAYLOR TEL CO-OP INC	\$388	\$365	\$753
TX	442153	TEXAS-ALLTEL, INC.	\$545	\$810	\$1,355
TX	442154	CONTEL OF TEXAS	\$37,378	\$32,712	\$70,090
TX	442155	TRI-COUNTY TEL - TX	\$150	\$278	\$428
TX	442159	VALLEY TEL CO-OP -TX	\$696	\$589	\$1,285
TX	442166	WEST TEXAS RURAL TEL	\$0	\$12	\$12
TX	442168	WES-TEX TEL CO-OP	\$68	\$108	\$176
TX	442170	XIT RURAL TEL CO-OP	\$24	\$28	\$52
TX	442262	ENMR TEL COOP-TX	\$18	\$52	\$70
TX	445216	SOUTHWESTERN BELL-TX	\$287,719	\$492,986	\$780,705
TX	58	Study Area Total	\$426,233	\$694,099	\$1,120,332
UT	502177	CONTEL THE WEST - UT	\$8,895	\$9,181	\$18,076
UT	505107	MOUNTAIN BELL-UT	\$273,329	\$335,720	\$609,049
UT	13	Study Area Total	\$282,224	\$344,901	\$627,125
VT	140053	FRANKLIN TEL CO - VT	\$777	\$896	\$1,673
VT	140058	LUDLOW TEL CO	\$3,106	\$3,054	\$6,160
VT	140061	NORTHFIELD TEL CO	\$3,945	\$3,879	\$7,824
VT	140062	PERKINSVILLE TEL CO	\$706	\$640	\$1,346
VT	140064	SHOREHAM TEL CO INC.	\$3,001	\$2,904	\$5,905
VT	140068	TOPSHAM TEL CO	\$1,782	\$1,839	\$3,621
VT	140069	WAITSFIELD/FAYSTON	\$1,414	\$1,395	\$2,809
VT	140070	CONTEL OF VERMONT	\$38,278	\$38,350	\$76,628
VT	145115	NEW ENGLAND TEL-VT	\$323,773	\$325,911	\$649,684
VT	9	Study Area Total	\$376,782	\$378,868	\$755,650

LIFELINE END USER CHARGES WAIVED

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
==	=====	=====	=====	=====	=====
VI	1	Study Area Total	\$0	\$0	\$0
VA	190217	AMELIA TEL CORP	\$1,368	\$228	\$1,596
VA	190219	BUGGS ISLAND COOP	\$1,012	\$1,055	\$2,067
VA	190225	CITIZENS TEL COOP	\$793	\$832	\$1,625
VA	190226	CLIFTON FORGE WAYNES	\$2,598	\$3,080	\$5,678
VA	190233	CONTEL OF VIRGINIA	\$40,310	\$42,245	\$82,555
VA	190236	NORTH RIVER TEL COOP	\$0	\$33	\$33
VA	190237	HIGHLAND TEL COOP	\$136	\$160	\$296
VA	190238	MT GROVE-WILLIAMSVIL	\$116	\$126	\$242
VA	190243	PEMBROKE TEL COOP	\$208	\$276	\$484
VA	190244	PEOPLES MUTUAL TEL	\$891	\$1,065	\$1,956
VA	190248	SCOTT COUNTY COOP	\$2,476	\$2,625	\$5,101
VA	190249	ROANOKE & BOTETOVRT	\$7	\$5	\$12
VA	190250	SHENANDOAH TEL CO	\$1,413	\$1,481	\$2,894
VA	190253	VIRGINIA HOT SPRINGS	\$144	\$163	\$307
VA	190254	CENDEL OF VIRGINIA	\$70,794	\$83,084	\$153,878
VA	190479	GTE SOUTH INC. - VA	\$8,418	\$10,954	\$19,372
VA	190567	UNITED INTER-MT-VA	\$55,296	\$59,392	\$114,688
VA	195040	C & P TEL CO OF VA	\$144,212	\$141,661	\$285,873
VA	20	Study Area Total	\$330,192	\$348,465	\$678,657
WA	522400	UTC OF THE NW-WA	\$0	\$23,576	\$23,576
WA	522404	ASOTIN TEL - WA	\$108	\$97	\$205
WA	522408	TEL UTIL OF WA INC	\$118	\$12,762	\$12,880
WA	522410	COWICHE TELEPHONE CO	\$27	\$147	\$174
WA	522416	GTE NORTHWEST INC-WA	\$2,176	\$55,920	\$58,096
WA	522419	HOOD CANAL TEL CO	\$18	\$27	\$45
WA	522423	INLAND TEL CO -WA	\$469	\$489	\$958
WA	522426	KALAMA TEL CO	\$105	\$297	\$402
WA	522427	LEWIS RIVER TEL CO	\$0	\$148	\$148
WA	522430	MCDANIEL TEL CO	\$0	\$87	\$87
WA	522431	MASHELL TEL CO INC	\$0	\$293	\$293
WA	522436	PENINSULA TELECOMM	\$100	\$1,922	\$2,022
WA	522437	PIONEER TEL CO	\$60	\$115	\$175
WA	522442	ST JOHN TEL CO	\$12	\$46	\$58
WA	522446	TENINO TELEPHONE CO	\$0	\$140	\$140
WA	522449	CONTEL OF THE NW-WA	\$5,972	\$12,549	\$18,521
WA	522451	WESTERN WAHAKIAKUM	\$14	\$304	\$318
WA	522452	WHIDBEY TEL CO.	\$357	\$673	\$1,030
WA	522453	YELM TELEPHONE CO	\$210	\$1,198	\$1,408
WA	525161	PACIFIC NW BELL-WA	\$609,517	\$611,668	\$1,221,185
WA	23	Study Area Total	\$619,263	\$722,458	\$1,341,721

LIFELINE END USER CHARGES WAIVED

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
WV	200256	ARMSTRONG OF WV	\$205	\$245	\$450
WV	200267	ARMSTRONG TEL. CO.	\$487	\$573	\$1,060
WV	200270	MOUNTAIN STATE TEL	\$4,226	\$4,478	\$8,704
WV	200278	CONTEL OF WV	\$11,109	\$11,299	\$22,408
WV	200479	GTE SOUTH INC. - WV	\$6,012	\$6,932	\$12,944
WV	205050	C & P TEL CO OF WV	\$94,470	\$88,243	\$182,713
WV	10	Study Area Total	\$116,509	\$111,770	\$228,279
WI	330950	SOLON SPRINGS TEL CO	\$90	\$108	\$198
WI	95	Study Area Total	\$90	\$108	\$198
WY	11	Study Area Total	\$0	\$0	\$0
		Industry Total	\$29,311,981	\$33,240,794	\$62,552,775

TABLE 2.6

LINK-UP LIFELINE CONNECTION ASSISTANCE

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
==	=====	=====	=====	=====	=====
AL	250281	CONTEL OF THE SOUTH	\$0	\$44	\$44
AL	250283	BRINDLEE MOUNTAIN	\$30	\$0	\$30
AL	250290	FARMERS TEL COOP -AL	\$20	\$0	\$20
AL	250293	GTE SOUTH INC. - AL	\$1,209	\$773	\$1,982
AL	250300	HOPPER TEL. CO INC	\$42	\$42	\$84
AL	250304	MILLRY TEL CO	\$132	\$84	\$216
AL	250312	ONEONTA TEL CO	\$21	\$0	\$21
AL	250314	PEOPLES TEL CO	\$108	\$18	\$126
AL	250315	PINE BELT TEL CO	\$78	\$52	\$130
AL	250322	UNION SPRINGS TEL CO	\$43	\$53	\$96
AL	255181	SO CENTRAL BELL-AL	\$18,232	\$20,265	\$38,497

AL	30	Study Area Total	\$19,915	\$21,331	\$41,246

AK	25	Study Area Total	\$0	\$0	\$0

AZ	455101	MOUNTAIN BELL - AZ	\$3,071	\$5,002	\$8,073

AZ	10	Study Area Total	\$3,071	\$5,002	\$8,073

AR	401691	ALLTEL ARKANSAS INC	\$1,106	\$862	\$1,968
AR	401702	SOUTH ARKANSAS TEL	\$16	\$0	\$16
AR	401705	CENTURY OF ARKANSAS	\$829	\$473	\$1,302
AR	401710	MAGAZINE TEL CO	\$21	\$0	\$21
AR	401711	MOUNTAIN HOME TEL	\$398	\$309	\$707
AR	401713	NORTH ARKANSAS TEL	\$69	\$40	\$109
AR	401720	REDFIELD TEL CO	\$16	\$0	\$16
AR	401722	E RITTER TEL CO	\$32	\$94	\$126
AR	401729	WALNUT HILL TEL CO	\$270	\$0	\$270
AR	401730	CONTEL OF ARKANSAS	\$259	\$256	\$515
AR	401733	YELCOT TEL CO INC	\$0	\$23	\$23
AR	401790	CON KS DBA CON AR	\$119	\$122	\$241
AR	402080	GTE SOUTHWEST INC-AR	\$3,340	\$1,554	\$4,894
AR	405211	SOUTHWESTERN BELL-AR	\$43,332	\$49,168	\$92,500

AR	28	Study Area Total	\$49,807	\$52,901	\$102,708

CA	22	Study Area Total	\$0	\$0	\$0

CO	465102	MOUNTAIN BELL-CO	\$4,481	\$11,105	\$15,586

CO	27	Study Area Total	\$4,481	\$11,105	\$15,586

LINK-UP LIFELINE CONNECTION ASSISTANCE

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
CT	135200	SOUTHERN NEW ENGLAND	\$32,663	\$34,185	\$66,848
CT	2	Study Area Total	\$32,663	\$34,185	\$66,848
DE	1	Study Area Total	\$0	\$0	\$0
DC	575020	C & P TEL CO OF WASH	\$4,277	\$3,632	\$7,909
DC	1	Study Area Total	\$4,277	\$3,632	\$7,909
FL	210328	GTE FLORIDA INC.	\$21,954	\$15,879	\$37,833
FL	210331	INDIANTOWN SYSTEM	\$0	\$42	\$42
FL	210336	ALLTEL FLORIDA INC.	\$615	\$482	\$1,097
FL	210340	CENDEL OF FLORIDA	\$1,272	\$554	\$1,826
FL	210341	UTC OF FLORIDA	\$4,367	\$4,182	\$8,549
FL	215191	SOUTHERN BELL-FL	\$16,826	\$10,929	\$27,755
FL	13	Study Area Total	\$45,034	\$32,068	\$77,102
GA	36	Study Area Total	\$0	\$0	\$0
HI	623100	GTE HAWAIIAN TEL. CO	\$6,924	\$6,693	\$13,617
HI	1	Study Area Total	\$6,924	\$6,693	\$13,617
ID	472177	CONTEL OF WEST-ID	\$100	\$50	\$150
ID	475103	MOUNTAIN BELL-ID	\$1,646	\$1,646	\$3,292
ID	475162	PACIFIC NW BELL-ID	\$0	\$95	\$95
ID	20	Study Area Total	\$1,746	\$1,791	\$3,537
IL	340976	ADAMS TEL COOP	\$0	\$33	\$33
IL	340978	ALHAMBRA-GRANTFORK	\$0	\$5	\$5
IL	340984	CASS COUNTY TEL CO	\$0	\$15	\$15
IL	340985	CENDEL OF ILLINOIS	\$221	\$165	\$386
IL	340993	CROSSVILLE TEL CO	\$5	\$0	\$5
IL	341000	ALLTEL ILLINOIS INC.	\$0	\$56	\$56
IL	341003	EGYPTIAN COOP ASSN	\$9	\$34	\$43
IL	341009	C-R TEL CO	\$0	\$175	\$175
IL	341015	GTE NORTH INC. - IL	\$11,800	\$2,663	\$14,463
IL	341023	GRIDLEY TEL CO	\$8	\$0	\$8
IL	341025	SHAWNEE TELEPHONE CO	\$51	\$18	\$69

LINK-UP LIFELINE CONNECTION ASSISTANCE

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
IL	341026	HARRISONVILLE TEL CO	\$71	\$26	\$97
IL	341032	HOME TEL CO-ST JACOB	\$0	\$54	\$54
IL	341036	CONTEL OF ILLINOIS	\$925	\$211	\$1,136
IL	341037	IL CONSOLIDATED TEL	\$567	\$215	\$782
IL	341043	LA HARPE TEL CO	\$7	\$0	\$7
IL	341047	MCDONOUGH TEL COOP	\$27	\$14	\$41
IL	341049	MADISON TEL CO	\$10	\$0	\$10
IL	341050	MARSEILLES TEL CO	\$32	\$0	\$32
IL	341053	METAMORA TEL CO	\$32	\$40	\$72
IL	341060	MOULTRIE INDEPENDENT	\$10	\$0	\$10
IL	341065	ODIN TEL EXCH INC	\$11	\$0	\$11
IL	341088	WABASH TEL COOP, INC	\$15	\$0	\$15
IL	345070	ILLINOIS BELL TEL CO	\$304,062	\$306,573	\$610,635
IL	56	Study Area Total	\$317,863	\$310,297	\$628,160
IN	320747	CENTRAL INDIANA TEL	\$0	\$28	\$28
IN	320772	GTE NORTH INC. - IN	\$5,177	\$4,919	\$10,096
IN	320776	COMM CORP OF INDIANA	\$0	\$58	\$58
IN	320779	CONTEL OF INDIANA	\$1,026	\$570	\$1,596
IN	320801	ODON TEL CO	\$0	\$23	\$23
IN	320818	SMITHVILLE TEL CO	\$80	\$200	\$280
IN	320819	SE INDIANA RURAL	\$20	\$0	\$20
IN	320828	THORNTOWN TEL CO	\$9	\$0	\$9
IN	320831	ALLTEL INDIANA INC.	\$0	\$105	\$105
IN	320832	UTC OF INDIANA	\$518	\$285	\$803
IN	325080	INDIANA BELL TEL CO	\$13,911	\$8,859	\$22,770
IN	42	Study Area Total	\$20,741	\$15,047	\$35,788
IA	351118	CASCADE TEL CO	\$40	\$24	\$64
IA	351127	CENDEL OF IOWA	\$108	\$117	\$225
IA	351129	THE CITIZENS MUTUAL	\$80	\$60	\$140
IA	351133	C-M-L TEL COOP ASSN	\$4	\$0	\$4
IA	351156	EAST BUCHANAN COOP	\$0	\$4	\$4
IA	351166	FARMERS & MERCHANTS	\$0	\$15	\$15
IA	351168	FARMERS MUTUAL COOP	\$0	\$9	\$9
IA	351176	FARMERS TEL CO-ESSEX	\$5	\$0	\$5
IA	351179	FENTON CO-OP TEL CO	\$0	\$12	\$12
IA	351186	GTE NORTH INC. - IA	\$1,184	\$1,652	\$2,836
IA	351187	MID-IOWA TEL CO	\$0	\$44	\$44
IA	351189	RIVER VALLEY COOP	\$6	\$0	\$6
IA	351191	GRAND MOUND COOP TEL	\$8	\$0	\$8
IA	351206	IAMO TEL CO - IA	\$10	\$0	\$10

LINK-UP LIFELINE CONNECTION ASSISTANCE

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
IA	351207	CONTEL OF IOWA, INC.	\$2,354	\$1,985	\$4,339
IA	351212	JEFFERSON TEL CO -IA	\$0	\$42	\$42
IA	351217	KEYSTONE FRMS COOP	\$13	\$10	\$23
IA	351223	LAUREL TEL CO, INC	\$22	\$11	\$33
IA	351232	LYNNVILLE COMMUNITY	\$0	\$23	\$23
IA	351248	MONTEZUMA MUTUAL TEL	\$0	\$20	\$20
IA	351252	MUTUAL TEL CO	\$26	\$0	\$26
IA	351259	NORTHERN IOWA TEL CO	\$0	\$13	\$13
IA	351260	NORTHWEST IOWA TEL	\$38	\$0	\$38
IA	351261	NORTHWEST TEL COOP	\$9	\$17	\$26
IA	351263	OGDEN TEL CO - IA	\$0	\$10	\$10
IA	351297	HEART OF IOWA COOP	\$26	\$13	\$39
IA	351303	COOP TEL EXCHANGE	\$8	\$0	\$8
IA	351320	VAN HORNE COOP TEL	\$10	\$10	\$20
IA	351324	VILLISCA FARMERS TEL	\$14	\$7	\$21
IA	351328	WEBSTER-CALHOUN COOP	\$180	\$180	\$360
IA	351331	WEST IOWA TEL CO	\$40	\$98	\$138
IA	351332	WEST LIBERTY TEL CO	\$0	\$20	\$20
IA	351337	WINNEBAGO COOP ASSN	\$8	\$0	\$8
IA	351346	ACE TEL ASSN-IA	\$38	\$20	\$58
IA	351790	CONTEL-KS DBA CON-IA	\$1,909	\$1,812	\$3,721
IA	351888	GRAND RIVER MUT-IA	\$28	\$37	\$65
IA	355141	NORTHWESTERN BELL-IA	\$53,172	\$49,446	\$102,618
IA	153	Study Area Total	\$59,340	\$55,711	\$115,051
KS	411317	UTC-IA DBA UTC-E. KS	\$89	\$15	\$104
KS	411746	BLUE VALLEY TEL CO	\$40	\$24	\$64
KS	411758	COUNCIL GROVE TEL CO	\$11	\$0	\$11
KS	411788	KANOKLA TEL ASSN-KS	\$0	\$16	\$16
KS	411826	RURAL TEL SERVICE CO	\$0	\$8	\$8
KS	411833	SOUTHERN KANSAS TEL	\$18	\$6	\$24
KS	411842	UTC OF KANSAS	\$857	\$621	\$1,478
KS	415214	SOUTHWESTERN BELL-KS	\$8,236	\$4,835	\$13,071
KS	40	Study Area Total	\$9,251	\$5,525	\$14,776
KY	260396	BALLARD RURAL COOP	\$143	\$26	\$169
KY	260398	BRANDENBURG TEL CO	\$254	\$327	\$581
KY	260401	DUO COUNTY TEL COOP	\$160	\$160	\$320
KY	260402	ALLTEL KENTUCKY	\$275	\$210	\$485
KY	260407	GTE SOUTH INC. - KY	\$8,868	\$11,043	\$19,911
KY	260408	HAROLD TEL CO	\$21	\$33	\$54
KY	260410	CONTEL OF KENTUCKY	\$12,231	\$12,891	\$25,122

LINK-UP LIFELINE CONNECTION ASSISTANCE

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
KY	260411	LESLIE COUNTY TEL CO	\$1,873	\$1,401	\$3,274
KY	260413	LOGAN TEL. COOP. INC	\$140	\$70	\$210
KY	260414	MOUNTAIN RURAL COOP	\$203	\$214	\$417
KY	260415	PEOPLES RURAL COOP	\$1,151	\$878	\$2,029
KY	260418	SOUTH CENTRAL RURAL	\$542	\$642	\$1,184
KY	260419	THACKER/GRIGSBY TEL	\$227	\$241	\$468
KY	260421	WEST KENTUCKY RURAL	\$30	\$47	\$77
KY	265061	CINCINNATI BELL-KY	\$787	\$764	\$1,551
KY	265182	SO CENTRAL BELL-KY	\$62,099	\$56,747	\$118,846
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KY	19	Study Area Total	\$89,004	\$85,694	\$174,698
LA	270423	CENTRAL LOUISIANA	\$3,058	\$2,376	\$5,434
LA	270424	COASTAL TEL & ELECTR	\$1,936	\$1,236	\$3,172
LA	270427	CHATHAM TEL CO	\$0	\$23	\$23
LA	270431	CADDOAN TEL CO	\$1,452	\$1,562	\$3,014
LA	270432	KAPLAN TEL CO	\$124	\$28	\$152
LA	270434	EVANGELINE TEL CO	\$7,810	\$5,654	\$13,464
LA	270435	NORTHEAST LOUISIANA	\$106	\$104	\$210
LA	270436	CENTURY NORTH LA	\$1,342	\$1,100	\$2,442
LA	270438	RESERVE TEL CO	\$435	\$174	\$609
LA	270440	CENTURY TEL CO	\$968	\$506	\$1,474
LA	270442	LOUISIANA WESTERN	\$726	\$176	\$902
LA	275183	SO CENTRAL BELL-LA	\$473,847	\$331,387	\$805,234
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LA	20	Study Area Total	\$491,804	\$344,326	\$836,130
ME	100002	BRYANT POND TEL CO	\$60	\$20	\$80
ME	100004	CHINA TEL CORP	\$32	\$54	\$86
ME	100005	COBOSSEECONTEE TEL	\$0	\$2	\$2
ME	100010	HAMPDEN TEL CO	\$204	\$136	\$340
ME	100011	HARTLAND & ST ALBANS	\$190	\$400	\$590
ME	100014	CONTEL OF MAINE	\$3,983	\$5,397	\$9,380
ME	100015	COMMUNITY SERVICE	\$270	\$408	\$678
ME	100019	OXFORD COUNTY TEL	\$421	\$450	\$871
ME	100024	SOMERSET TEL CO	\$120	\$350	\$470
ME	100025	STANDISH TEL CO	\$212	\$247	\$459
ME	100031	WARREN TEL CO	\$110	\$60	\$170
ME	100034	WEST PENOBSCOT TEL	\$430	\$340	\$770
ME	105111	NEW ENGLAND TEL-ME	\$101,963	\$106,482	\$208,445
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ME	19	Study Area Total	\$107,995	\$114,346	\$222,341
MD	185030	C & P TEL CO OF MD	\$79,979	\$38,668	\$118,647
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MD	2	Study Area Total	\$79,979	\$38,668	\$118,647

LINK-UP LIFELINE CONNECTION ASSISTANCE

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
MA	115112	NEW ENGLAND TEL-MA	\$49,227	\$90,801	\$140,028
MA	3	Study Area Total	\$49,227	\$90,801	\$140,028
MI	310680	CHIPPEWA COUNTY TEL	\$0	\$54	\$54
MI	310695	GTE NORTH INC. - MI	\$0	\$11,058	\$11,058
MI	315090	MICHIGAN BELL TEL CO	\$201,919	\$281,375	\$483,294
MI	38	Study Area Total	\$201,919	\$292,487	\$494,406
MN	361140	CONTEL OF MINNESOTA	\$382	\$82	\$464
MN	361186	GTE NORTH INC. - MN	\$0	\$25	\$25
MN	361367	CENDEL OF MN	\$8,326	\$433	\$8,759
MN	361374	ARROWHEAD COMM CORP	\$0	\$22	\$22
MN	361383	EAGLE VALLEY TEL CO	\$0	\$49	\$49
MN	361407	HOHMAN TEL CO	\$30	\$0	\$30
MN	361430	MELROSE TEL CO	\$26	\$0	\$26
MN	361456	UTC OF MINNESOTA	\$81	\$50	\$131
MN	365142	NORTHWESTERN BELL-MN	\$4,976	\$5,504	\$10,480
MN	91	Study Area Total	\$13,821	\$6,165	\$19,986
MS	280446	BAY SPRINGS TEL CO	\$30	\$30	\$60
MS	280453	ALLTEL MISSISSIPPI	\$61	\$98	\$159
MS	280458	HOME TEL CO-OLIVE BR	\$66	\$330	\$396
MS	280460	MID-SOUTH TEL CO	\$189	\$0	\$189
MS	285184	SO CENTRAL BELL-MS	\$15,804	\$12,925	\$28,729
MS	20	Study Area Total	\$16,150	\$13,383	\$29,533
MO	421186	GTE NORTH INC. - MO	\$40	\$64	\$104
MO	421206	IAMO TEL CO - MO	\$10	\$0	\$10
MO	421759	CRAW-KAN TEL COOP-MO	\$0	\$11	\$11
MO	421789	KS ST DBA CON E. MO	\$90	\$127	\$217
MO	421846	CONTINENTAL SYS. -MO	\$149	\$128	\$277
MO	421864	CHARITON VALLEY TEL	\$0	\$8	\$8
MO	421874	ELLINGTON TEL CO	\$33	\$9	\$42
MO	421885	ALLTEL MISSOURI	\$332	\$199	\$531
MO	421888	GRAND RIVER MUT-MO	\$36	\$29	\$65
MO	421890	GREEN HILLS TEL CORP	\$3	\$0	\$3
MO	421922	CONTEL OF MISSOURI	\$442	\$326	\$768
MO	421927	NEW FLORENCE TEL CO	\$20	\$0	\$20
MO	421949	STEELVILLE TEL EXCH	\$3	\$6	\$9
MO	421957	UTC OF MISSOURI	\$2,518	\$2,584	\$5,102

LINK-UP LIFELINE CONNECTION ASSISTANCE

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
MO	425213	SOUTHWESTERN BELL-MO	\$7,501	\$5,092	\$12,593
MO	44	Study Area Total	\$11,177	\$8,583	\$19,760
MT	482235	BLACKFOOT TEL COOP	\$115	\$200	\$315
MT	482244	LINCOLN TEL CO INC	\$60	\$0	\$60
MT	482246	MID-RIVERS TEL COOP	\$0	\$2	\$2
MT	482251	RANGE TEL COOP-MT	\$360	\$0	\$360
MT	482257	TRIANGLE TEL COOP	\$20	\$20	\$40
MT	485104	MOUNTAIN BELL-MT	\$20,997	\$14,263	\$35,260
MT	17	Study Area Total	\$21,552	\$14,485	\$36,037
NE	371186	GTE NORTH INC. - NE	\$133	\$505	\$638
NE	371563	HOOPER TEL CO	\$0	\$11	\$11
NE	371568	LINCOLN TEL & TEL CO	\$1,684	\$2,278	\$3,962
NE	371577	GREAT PLAINS COMMUN	\$0	\$24	\$24
NE	371591	SE NEBRASKA TEL CO	\$45	\$18	\$63
NE	371595	UTC OF THE WEST-NE	\$356	\$310	\$666
NE	375143	NORTHWESTERN BELL-NE	\$1,088	\$1,512	\$2,600
NE	42	Study Area Total	\$3,306	\$4,658	\$7,964
NV	552302	CONTEL OF CALIF-NV	\$400	\$260	\$660
NV	552348	CENTEL OF NV	\$168	\$159	\$327
NV	552353	MOAPA VALLEY TEL CO.	\$32	\$26	\$58
NV	555173	NEVADA BELL	\$68	\$1,891	\$1,959
NV	13	Study Area Total	\$668	\$2,336	\$3,004
NH	120041	CONTEL OF NH	\$17	\$22	\$39
NH	125113	NEW ENGLAND TEL-NH	\$3,151	\$5,518	\$8,669
NH	12	Study Area Total	\$3,168	\$5,540	\$8,708
NJ	160138	UNITED TEL - NJ, INC	\$28	\$38	\$66
NJ	165120	NEW JERSEY BELL	\$5,145	\$5,544	\$10,689
NJ	3	Study Area Total	\$5,173	\$5,582	\$10,755
NM	492080	GTE SOUTHWEST INC-NM	\$0	\$588	\$588
NM	492177	CONTEL OF WEST - NM	\$240	\$1,170	\$1,410
NM	492268	WESTERN NEW MEXICO	\$101	\$203	\$304
NM	495105	MOUNTAIN BELL-NM	\$37,000	\$39,250	\$76,250
NM	14	Study Area Total	\$37,341	\$41,211	\$78,552

LINK-UP LIFELINE CONNECTION ASSISTANCE

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
NY	150071	ARMSTRONG TEL CO-NY	\$480	\$948	\$1,428
NY	150077	CHAMPLAIN TEL CO	\$1,734	\$2,618	\$4,352
NY	150078	CHAUTAUQUA & ERIE	\$1,148	\$1,309	\$2,457
NY	150079	CHAZY & WESTPORT	\$15	\$15	\$30
NY	150081	CITIZENS HAMMOND NY	\$40	\$0	\$40
NY	150088	DELHI TEL CO	\$0	\$12	\$12
NY	150089	DEPOSIT TEL CO	\$405	\$540	\$945
NY	150093	EMPIRE TEL CORP	\$20	\$85	\$105
NY	150096	CONTEL OF NY, INC	\$484	\$2,213	\$2,697
NY	150099	HANCOCK TEL CO	\$80	\$57	\$137
NY	150107	NEWPORT TEL CO	\$110	\$60	\$170
NY	150108	NICHOLVILLE TEL CO	\$228	\$68	\$296
NY	150111	ONEIDA COUNTY RURAL	\$0	\$41	\$41
NY	150112	ONTARIO TEL CO	\$6	\$19	\$25
NY	150116	PATTERSONVILLE TEL	\$20	\$101	\$121
NY	150119	RED HOOK TEL CO	\$15	\$15	\$30
NY	150121	ROCHESTER TEL CORP	\$26,720	\$33,185	\$59,905
NY	150131	TRUMANSBURG HOME TEL	\$265	\$144	\$409
NY	150136	WESTERN COUNTIES TEL	\$30	\$119	\$149
NY	155130	NEW YORK TEL CO	\$2,011,052	\$2,362,442	\$4,373,494
NY	45	Study Area Total	\$2,042,852	\$2,403,991	\$4,446,843
NC	230470	CAROLINA TEL & TEL	\$11,204	\$8,370	\$19,574
NC	230471	CENDEL OF NC	\$1,007	\$692	\$1,699
NC	230473	CITIZENS TEL CO	\$150	\$163	\$313
NC	230474	CONCORD TEL CO	\$53	\$44	\$97
NC	230476	ALLTEL CAROLINA-NO	\$172	\$171	\$343
NC	230478	ELLERBE TEL CO	\$10	\$0	\$10
NC	230479	GTE SOUTH INC - NC	\$974	\$1,406	\$2,380
NC	230481	HEINS TEL CO	\$120	\$111	\$231
NC	230483	LEXINGTON TEL CO	\$106	\$11	\$117
NC	230491	NORTH STATE TEL CO	\$6	\$0	\$6
NC	230496	RANDOLPH MEMBERSHIP	\$0	\$10	\$10
NC	230501	SKYLINE MEMBERSHIP	\$0	\$46	\$46
NC	230502	STAR MEMBERSHIP CORP	\$36	\$60	\$96
NC	230509	CONTEL OF NC	\$787	\$547	\$1,334
NC	235193	SOUTHERN BELL-NC	\$3,466	\$1,580	\$5,046
NC	28	Study Area Total	\$18,091	\$13,211	\$31,302
ND	381447	CONTEL OF N. DAKOTA	\$305	\$210	\$515
ND	381607	CONSOLIDATED COOP	\$13	\$0	\$13
ND	381610	DAKOTA CENTRAL RURAL	\$22	\$0	\$22

LINK-UP LIFELINE CONNECTION ASSISTANCE

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
ND	381624	NORTH. STATES POWER	\$276	\$391	\$667
ND	381630	POLAR COMM MUT AID	\$0	\$12	\$12
ND	381632	RESERVATION TEL COOP	\$106	\$89	\$195
ND	381634	SOURIS RIVER TELECOM	\$40	\$25	\$65
ND	385144	NORTHWESTERN BELL-ND	\$2,370	\$1,890	\$4,260
ND	24	Study Area Total	\$3,132	\$2,617	\$5,749
OH	300597	THE CHILlicoTHE TEL	\$689	\$338	\$1,027
OH	300615	GTE NORTH INC. - OH	\$33,929	\$50,195	\$84,124
OH	300630	CENTEL OF OHIO	\$174	\$161	\$335
OH	300634	MINFORD TEL CO	\$662	\$342	\$1,004
OH	300637	ALLTEL OHIO-NEWARK	\$46	\$61	\$107
OH	300645	OAKWOOD MUTUAL TEL	\$15	\$0	\$15
OH	300661	UTC OF OHIO	\$4,308	\$2,386	\$6,694
OH	300665	ALLTEL OHIO-WEST OH	\$0	\$249	\$249
OH	300666	WESTERN RESERVE TEL	\$903	\$227	\$1,130
OH	305062	CINCINNATI BELL-OH	\$667	\$1,479	\$2,146
OH	305150	OHIO BELL TEL CO	\$92,985	\$42,669	\$135,654
OH	44	Study Area Total	\$134,378	\$98,107	\$232,485
OK	431965	ALLTEL OKLAHOMA INC	\$0	\$112	\$112
OK	431985	CROSS TEL CO	\$0	\$42	\$42
OK	432011	OKLAHOMA ALLTEL, INC	\$0	\$276	\$276
OK	432016	PANHANDLE TEL COOP	\$0	\$18	\$18
OK	432080	GTE SOUTHWEST INC-OK	\$0	\$729	\$729
OK	435215	SOUTHWESTERN BELL-OK	\$0	\$14,650	\$14,650
OK	39	Study Area Total	\$0	\$15,827	\$15,827
OR	532304	C P NATIONAL CORP-OR	\$220	\$220	\$440
OR	532361	TEL UTIL OF OREGON	\$2,286	\$2,004	\$4,290
OR	532362	CANBY TEL ASSN	\$0	\$16	\$16
OR	532363	CLEAR CREEK MUTUAL	\$0	\$14	\$14
OR	532371	CASCADE UTIL INC	\$28	\$0	\$28
OR	532383	MOLALLA TEL CO.	\$36	\$18	\$54
OR	532386	MT. ANGEL TEL CO.	\$15	\$15	\$30
OR	532389	OREGON TEL CORP	\$30	\$0	\$30
OR	532393	PIONEER TEL COOP	\$28	\$38	\$66
OR	532399	STAYTON COOP TEL CO	\$31	\$52	\$83
OR	532400	UTC OF THE NW - OR	\$575	\$175	\$750
OR	532416	GTE NORTHWEST INC-OR	\$2,045	\$1,380	\$3,425
OR	532449	CONTEL OF THE NW- OR	\$160	\$180	\$340

LINK-UP LIFELINE CONNECTION ASSISTANCE

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
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OR	532456	MALHEUR HOME TEL CO	\$190	\$257	\$447
OR	535163	PACIFIC NW BELL-OR	\$6,054	\$7,194	\$13,248
OR	34	Study Area Total	\$11,698	\$11,563	\$23,261
PA	170145	THE BENTLEYVILLE TEL	\$155	\$97	\$252
PA	170150	BROOKVILLE TEL CO	\$512	\$265	\$777
PA	170157	CITIZENS UTIL OF PA	\$798	\$1,003	\$1,801
PA	170161	C-TEC CORPORATION	\$3,564	\$4,431	\$7,995
PA	170162	THE CONESTOGA TEL	\$128	\$143	\$271
PA	170165	DENVER & EPHRATA	\$466	\$320	\$786
PA	170168	ENTERPRISE TEL CO	\$33	\$33	\$66
PA	170169	GTE NORTH INC. - PA	\$4,814	\$5,362	\$10,176
PA	170171	HICKORY TEL CO	\$34	\$0	\$34
PA	170176	ALLTEL PENNSYLVANIA	\$1,264	\$928	\$2,192
PA	170178	LAKESWOOD TEL CO.	\$24	\$0	\$24
PA	170183	MAHANAY & MAHANTONGO	\$20	\$10	\$30
PA	170189	ARMSTRONG TEL CO-PA	\$16	\$0	\$16
PA	170190	MURRAYSVILLE TEL CO	\$0	\$42	\$42
PA	170191	NORTH EASTERN PA TEL	\$22	\$0	\$22
PA	170192	NORTH PENN TEL CO	\$107	\$452	\$559
PA	170194	OSWAYO RIVER TEL CO	\$85	\$64	\$149
PA	170196	PALMERTON TEL CO	\$0	\$10	\$10
PA	170200	PYMATUNING IND TEL	\$19	\$38	\$57
PA	170206	SUGAR VALLEY TEL CO	\$0	\$32	\$32
PA	170209	UTC OF PENNSYLVANIA	\$7,044	\$9,970	\$17,014
PA	170210	VENUS TEL CORP	\$0	\$26	\$26
PA	175000	BELL OF PENNSYLVANIA	\$760,640	\$789,660	\$1,550,300
PA	39	Study Area Total	\$779,745	\$812,886	\$1,592,631
PR	633201	PUERTO RICO TEL CO	\$48,914	\$47,745	\$96,659
PR	2	Study Area Total	\$48,914	\$47,745	\$96,659
RI	585114	NEW ENGLAND TEL - RI	\$7,601	\$7,797	\$15,398
RI	1	Study Area Total	\$7,601	\$7,797	\$15,398
SC	240479	GTE SOUTH INC. - SC	\$4,543	\$3,888	\$8,431
SC	240506	UTC OF THE CAROLINAS	\$6,048	\$4,682	\$10,730
SC	240517	ALLTEL SO CAROLINA	\$0	\$45	\$45
SC	240521	FORT MILL TEL CO	\$71	\$18	\$89
SC	240526	CONTEL OF SC	\$38	\$76	\$114

LINK-UP LIFELINE CONNECTION ASSISTANCE

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
SC	240528	HORRY TEL COOP	\$2,730	\$2,160	\$4,890
SC	240531	LANCASTER TEL CO	\$614	\$334	\$948
SC	240532	LOCKHART TEL CO INC	\$9	\$0	\$9
SC	240536	PALMETTO RURAL COOP	\$24	\$8	\$32
SC	240538	PIEDMONT RURAL COOP	\$140	\$84	\$224
SC	240542	ROCK HILL TEL CO	\$289	\$177	\$466
SC	240546	SANDHILL TEL COOP	\$71	\$0	\$71
SC	240550	WEST CAROLINA RURAL	\$90	\$60	\$150
SC	240551	WILLISTON TEL CO	\$72	\$12	\$84
SC	245194	SOUTHERN BELL-SC	\$6,214	\$3,998	\$10,212
SC	28	Study Area Total	\$20,953	\$15,542	\$36,495
SD	395145	NORTHWESTERN BELL-SD	\$4,884	\$4,484	\$9,368
SD	31	Study Area Total	\$4,884	\$4,484	\$9,368
TN	290280	ARDMORE TEL CO	\$0	\$220	\$220
TN	290479	GTE SOUTH INC. - TN	\$813	\$364	\$1,177
TN	290552	ADAMSVILLE TEL CO	\$54	\$162	\$216
TN	290553	BEN LOMAND RURAL	\$72	\$0	\$72
TN	290554	BLEDSON TEL COOP	\$7	\$41	\$48
TN	290557	CLAIBORNE TEL CO	\$120	\$198	\$318
TN	290559	CONCORD TEL EXCHANGE	\$0	\$170	\$170
TN	290562	DEKALB TEL COOP	\$126	\$68	\$194
TN	290565	HIGHLAND TEL COOP-TN	\$487	\$496	\$983
TN	290567	UNITED INTER-MT-TN	\$21,684	\$20,818	\$42,502
TN	290570	LORETTO TEL CO	\$9	\$0	\$9
TN	290573	NORTH CENTRAL COOP	\$136	\$125	\$261
TN	290575	TENNESSEE TEL CO	\$232	\$122	\$354
TN	290577	ALLTEL TENNESSEE	\$360	\$440	\$800
TN	290578	TELLICO TEL CO	\$83	\$96	\$179
TN	290579	TWIN LAKES TEL COOP	\$10	\$103	\$113
TN	295185	SO. CENTRAL BELL -TN	\$18,960	\$8,588	\$27,548
TN	25	Study Area Total	\$43,153	\$32,011	\$75,164
TX	442038	BLOSSOM TEL CO	\$26	\$0	\$26
TX	442041	BRAZOS TEL COOP INC	\$0	\$40	\$40
TX	442068	EASTEX TEL COOP INC	\$681	\$659	\$1,340
TX	442071	FIVE AREA TEL CO-OP	\$8	\$22	\$30
TX	442080	GTE SOUTHWEST INC-TX	\$20,127	\$11,079	\$31,206
TX	442084	UTC OF TEXAS INC	\$6,569	\$8,711	\$15,280
TX	442093	INDUSTRY TEL CO	\$7	\$0	\$7

LINK-UP LIFELINE CONNECTION ASSISTANCE

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
TX	442097	KERRVILLE TEL CO	\$8	\$399	\$407
TX	442109	LUFKIN-CONROE TEL EX	\$1,874	\$1,903	\$3,777
TX	442114	CENDEL OF TEXAS	\$889	\$1,614	\$2,503
TX	442131	POKA-LAMBRO TEL COOP	\$0	\$30	\$30
TX	442134	RIVIERA TEL CO INC	\$30	\$0	\$30
TX	442154	CONDEL OF TEXAS	\$3,620	\$2,040	\$5,660
TX	445216	SOUTHWESTERN BELL-TX	\$271,680	\$314,550	\$586,230
TX	58	Study Area Total	\$305,519	\$341,047	\$646,566
UT	505107	MOUNTAIN BELL-UT	\$4,296	\$2,574	\$6,870
UT	13	Study Area Total	\$4,296	\$2,574	\$6,870
VT	140058	LUDLOW TEL CO	\$11	\$44	\$55
VT	140061	NORTHFIELD TEL CO	\$0	\$12	\$12
VT	140064	SHOREHAM TEL CO INC.	\$12	\$34	\$46
VT	140068	TOPSHAM TEL CO	\$8	\$16	\$24
VT	140070	CONDEL OF VERMONT	\$149	\$642	\$791
VT	145115	NEW ENGLAND TEL-VT	\$6,980	\$14,224	\$21,204
VT	9	Study Area Total	\$7,160	\$14,972	\$22,132
VI	1	Study Area Total	\$0	\$0	\$0
VA	190217	AMELIA TEL CORP	\$144	\$24	\$168
VA	190219	BUGGS ISLAND COOP	\$16	\$22	\$38
VA	190225	CITIZENS TEL COOP	\$80	\$0	\$80
VA	190226	CLIFTON FORGE WAYNES	\$472	\$296	\$768
VA	190233	CONDEL OF VIRGINIA	\$5,121	\$5,118	\$10,239
VA	190238	MT GROVE-WILLIAMSVIL	\$0	\$18	\$18
VA	190243	PEMBROKE TEL COOP	\$5	\$11	\$16
VA	190244	PEOPLES MUTUAL TEL	\$174	\$161	\$335
VA	190248	SCOTT COUNTY COOP	\$320	\$236	\$556
VA	190249	ROANOKE & BOTETOVRT	\$22	\$0	\$22
VA	190250	SHENANDOAH TEL CO	\$203	\$103	\$306
VA	190253	VIRGINIA HOT SPRINGS	\$15	\$0	\$15
VA	190254	CENDEL OF VIRGINIA	\$3,012	\$3,663	\$6,675
VA	190479	GTE SOUTH INC. - VA	\$1,272	\$1,156	\$2,428
VA	190567	UNITED INTER-MT-VA	\$5,938	\$6,449	\$12,387
VA	195040	C & P TEL CO OF VA	\$64,312	\$75,688	\$140,000
VA	20	Study Area Total	\$81,106	\$92,945	\$174,051

LINK-UP LIFELINE CONNECTION ASSISTANCE

ST	SA Code	SA Name	Actual Jan 90 - Jun 90	Actual Jul 90 - Dec 90	Total
WA	522408	TEL UTIL OF WA INC	\$0	\$6,678	\$6,678
WA	522436	PENINSULA TELECOMM	\$0	\$1,077	\$1,077
WA	525161	PACIFIC NW BELL-WA	\$0	\$51,522	\$51,522
WA	23	Study Area Total	\$0	\$59,277	\$59,277
WV	200267	ARMSTRONG TEL. CO.	\$22	\$0	\$22
WV	200270	MOUNTAIN STATE TEL	\$160	\$88	\$248
WV	200278	CONTEL OF WV	\$564	\$354	\$918
WV	200479	GTE SOUTH INC. - WV	\$482	\$560	\$1,042
WV	205050	C & P TEL CO OF WV	\$3,768	\$2,964	\$6,732
WV	10	Study Area Total	\$4,996	\$3,966	\$8,962
WI	330886	GTE NORTH INC. - WI	\$0	\$33,431	\$33,431
WI	335220	WISCONSIN BELL	\$240,431	\$274,271	\$514,702
WI	95	Study Area Total	\$240,431	\$307,702	\$548,133
WY	511595	UTC OF THE WEST-WY	\$306	\$68	\$374
WY	515108	MOUNTAIN BELL-WY	\$2,146	\$990	\$3,136
WY	11	Study Area Total	\$2,452	\$1,058	\$3,510
Industry Total			\$5,468,758	\$5,912,875	\$11,381,633

3. Costs and High Cost Assistance

On a nationwide average basis, approximately 27 percent of local exchange carrier (LEC) local loop costs are allocated to the interstate (federal) jurisdiction,¹ and 73 percent are allocated to the state jurisdiction. The average cost per loop, however, varies significantly among LECs. The Commission's high cost assistance program enables 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. Consequently, the funding of this high cost assistance is known as the Universal Service Fund (USF). 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 took the form of changes in the additional interstate cost allocation for such LECs. The old and new high cost formulas are compared in Table 3.1.²

1 Of this amount, approximately 26 percent is a direct allocation by the transitional subscriber plant factor, and approximately 1 percent is covered by the universal service fund.

2 Of course, the percentages shown in the table are in addition to the

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 flat allocation factor of 25%. Both of these changes are being phased in over the same eight-year period.

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.³ 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. These reports are filed with the FCC in September. On September 4, 1990, NECA reported new data for 1989. State totals based on that report, covering cost data for 1989, are presented in Table 3.2. This table shows unseparated NTS costs (Revenue Requirement), the number of loops, and costs per loop. It also shows the universal service fund calculation for 1991, using 1989 data, based on the new high cost formula which took effect in 1988. The introduction of the USF is being accomplished over an eight-year transition period which began in 1986. Since 1991 is the sixth year of this transition, the annual USF payment for 1990 will be 6/8 of the amount calculated from the high cost formula. The final column shows the percentage of the total USF that goes to companies in the state. Corresponding data for individual company study areas can be found in the January 1991 Monitoring Report.

Table 3.3 shows the actual payments that have been made through the USF since its inception. The first column indicates the year in which the NTS costs were incurred. The second column indicates the year in which the USF payments were made. The third column indicates the amount of those payments, based on the product of the transition factor shown in the fourth column and the full amounts (calculated from the formulas in Table 3.1) shown in the fifth column. Any deviations in the USF amounts shown in Table 3.3 from amounts previously reported (including the amounts shown in Table 3.2) are due to subsequent cost revisions after the initial filing.

basic allocation of NTS costs to the interstate jurisdiction.

- 3 These are the carriers that settle on a cost basis. Costs for the remaining LECs, which settle on an average schedule basis, are attributed by NECA on the basis of those carriers' average number of loops per exchange.

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 (Used in 1986 and 1987)

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

Old Formula, Study Areas with 50,000 Loops or Less (Used in 1986 and 1987)

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

New Formula, Study Areas with Over 200,000 Loops (Used since 1988)

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 (Used since 1988)

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

TABLE 3.2

National Exchange Carrier Association
Universal Service Fund
State Summary
Data for 1989

STATE	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1991 AT 6/8 TRANSITION	PERCENT OF TOTAL
ALABAMA	\$493,667,282	1,802,783	\$273.84	\$18,220,878	3.86%
ALASKA	\$98,732,475	269,785	\$365.97	\$21,612,613	4.58%
ARIZONA	\$494,714,776	1,849,894	\$267.43	\$11,390,319	2.41%
ARKANSAS	\$331,851,750	994,858	\$333.57	\$20,068,844	4.25%
CALIFORNIA	\$3,426,943,706	16,904,962	\$202.72	\$28,297,357	6.00%
COLORADO	\$380,267,784	1,817,052	\$209.28	\$1,844,473	0.39%
CONNECTICUT	\$382,672,710	1,830,670	\$209.03	\$0	0.00%
DELAWARE	\$74,602,120	397,689	\$187.59	\$0	0.00%
DISTRICT OF COLUMBIA	\$64,370,637	816,235	\$78.86	\$0	0.00%
FLORIDA	\$2,162,461,431	7,388,208	\$292.69	\$22,955,137	4.86%
GEORGIA	\$963,009,105	3,201,351	\$300.81	\$31,936,927	6.77%
HAWAII	\$107,104,948	575,699	\$186.04	\$0	0.00%
IDAHO	\$130,920,616	456,362	\$286.88	\$9,728,272	2.06%
ILLINOIS	\$986,317,815	6,242,710	\$158.00	\$2,715,514	0.58%
INDIANA	\$599,576,874	2,608,618	\$229.84	\$2,713,154	0.57%
IOWA	\$270,370,565	1,341,480	\$201.55	\$2,447,989	0.52%
KANSAS	\$326,334,561	1,240,386	\$263.09	\$8,803,613	1.87%
KENTUCKY	\$437,543,738	1,552,899	\$281.76	\$6,639,167	1.41%
LOUISIANA	\$633,309,071	1,898,695	\$333.55	\$19,458,184	4.12%
MAINE	\$180,205,736	641,981	\$280.70	\$2,637,214	0.56%
MARYLAND	\$505,684,456	2,725,340	\$185.55	\$0	0.00%
MASSACHUSETTS	\$547,488,297	3,527,280	\$155.22	\$0	0.00%
MICHIGAN	\$973,271,154	4,765,970	\$204.21	\$3,991,866	0.85%
MINNESOTA	\$490,020,222	2,258,762	\$216.94	\$5,272,945	1.12%
MISSISSIPPI	\$345,595,453	1,000,947	\$345.27	\$9,696,066	2.05%
MISSOURI	\$584,503,412	2,523,108	\$231.66	\$29,735,148	6.30%
MONTANA	\$116,215,799	377,216	\$308.09	\$6,205,334	1.32%
NEBRASKA	\$170,020,422	833,922	\$203.88	\$3,488,245	0.74%
NEVADA	\$135,748,896	677,822	\$200.27	\$2,275,766	0.48%
NEW HAMPSHIRE	\$187,786,744	617,554	\$304.08	\$2,556,834	0.54%
NEW JERSEY	\$817,225,975	4,866,567	\$167.93	\$927,625	0.20%
NEW MEXICO	\$192,848,794	663,471	\$290.67	\$14,113,001	2.99%
NEW YORK	\$2,262,053,221	10,236,298	\$220.98	\$8,647,873	1.83%
NORTH CAROLINA	\$912,690,483	3,267,672	\$279.31	\$14,834,645	3.14%
NORTH DAKOTA	\$93,289,649	344,311	\$270.95	\$2,594,160	0.55%
OHIO	\$1,109,994,470	5,309,229	\$209.07	\$1,111,152	0.24%
OKLAHOMA	\$428,334,031	1,503,154	\$284.96	\$18,684,892	3.96%
OREGON	\$362,636,371	1,448,177	\$250.41	\$9,781,199	2.07%
PENNSYLVANIA	\$1,197,755,585	6,450,176	\$185.69	\$1,339,182	0.28%
PUERTO RICO	\$241,369,851	895,318	\$269.59	\$2,423,651	0.51%
RHODE ISLAND	\$95,975,671	529,070	\$181.40	\$0	0.00%
SOUTH CAROLINA	\$510,930,191	1,562,071	\$327.09	\$14,302,600	3.03%
SOUTH DAKOTA	\$84,780,873	326,486	\$259.68	\$2,019,849	0.43%
TENNESSEE	\$601,294,259	2,375,306	\$253.14	\$2,157,813	0.46%
TEXAS	\$2,303,969,777	8,384,293	\$274.80	\$67,160,668	14.23%
UTAH	\$146,819,397	724,863	\$202.55	\$2,105,802	0.45%
VERMONT	\$101,525,924	310,676	\$326.79	\$3,635,894	0.77%
VIRGIN ISLANDS	\$19,471,667	45,536	\$427.61	\$3,901,750	0.83%
VIRGINIA	\$749,457,567	3,249,910	\$230.61	\$1,984,598	0.42%
WASHINGTON	\$554,325,606	2,542,042	\$218.06	\$8,558,010	1.81%
WEST VIRGINIA	\$272,161,223	775,664	\$350.88	\$11,991,754	2.54%
WISCONSIN	\$537,778,572	2,458,914	\$218.71	\$2,277,553	0.48%
WYOMING	\$84,464,699	229,887	\$367.42	\$2,622,511	0.56%
INDUSTRY TOTAL	\$30,282,466,412	131,639,329	\$230.04	\$471,868,041	100.00%

TOTAL NUMBER OF STUDY AREA CODES: 1445

Table 3.3

Universal Service Fund History

<u>Data Year</u>	<u>Payment Year</u>	<u>Actual Payments</u>	<u>Transition Factor</u>	<u>Projected Payments At Full Transition</u>
1984	1986	\$ 55,626,903	1/8	\$ 445,015,224
1985	1987	125,691,874	1/4	502,767,496
1986	1988	183,268,189	3/8	488,715,171
1987	1989	264,553,840	1/2	529,107,680
1988	1990	338,835,561	5/8	542,136,898
1989	1991	472,950,468*	3/4	630,600,624

* Projected, based on current payments.

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 use of the network more efficient and to stimulate traffic growth. To monitor use of this network, the National Exchange Carrier Association (NECA) provides monthly reports to the Commission on the volume 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 this information was not previously collected by any single entity and that reports could be received and consolidated by some other entity (such as NECA). The data reported in this section includes revisions of the 1989 data that were contained in our previous reports for non-Tier 1 companies.¹

This report includes data on switched telephone traffic as reflected in the NECA calculations of carrier common line (CCL) access minutes of use from January 1989 through April 1991. Table 4.1 shows the latest available figures on minutes of use for interstate traffic as reported by NECA, derived from the Common Line earned revenues. Tables 4.2 and 4.3 show the figures for large (Tier 1) and small (non-Tier 1) companies, respectively. These figures do not include the minutes from the closed end of WATS. Similar data, extending back to mid-1984, are contained in earlier editions of this report. These are summarized in Table 4.4 on quarterly basis.

The only other new information received since the last report was revised 1989 data for some non-Tier 1 companies. Table 4.5 shows annual access minutes for all non-Tier 1 companies for 1989. Table 4.6 presents the number of loops, messages,² and subscriber line usage minutes for non-Tier 1 cost companies for 1989. Table 4.7 presents the number of dial equipment minutes and the SLU, SPF, DEM, and transitional DEM separations factors for non-Tier 1 cost companies for 1989.

1 A Tier 1 carrier is a local exchange carrier that has \$100 million or more annually in revenue from regulated telecommunications for five consecutive years.

2 Message counts are for all switched calls, including WATS and 800 service.

NECA has provided the following descriptions of the minutes of use measures:

Subscriber Line Usage (SLU) represents minutes of use (MOU) over jointly used subscriber lines in a study area. SLU is defined in the FCC rules, Part 36, paragraph 154(e). It is composed of all exchange, MTS MOU, and only originating 800 and terminating out-WATS MOU. SLU represents exchange, local exchange carrier (LEC) intra-LATA and corridor toll MOU, and feature groups A, B, C, and D MOU. Terminating 800 and originating out-WATS MOU are excluded. SLU also includes MOU on directly terminated toll stations or similar facilities.

Dial Equipment Minutes (DEM) represent all switched holding time minutes in a local dial office. DEM is defined in the FCC rules, Part 36, paragraph 125(b). It is composed of all originating and terminating exchange, MTS, 800, and out-WATS MOU. DEM represents exchange, LEC intra-LATA and corridor toll, and feature group A, B, C, and D MOU. (Please note that due to its unique switching arrangements, feature group A in DEM includes both serving office and end office MOU.) DEM does not include MOU in directly terminated toll stations or similar facilities, because they do not use local dial office facilities.

Premium CCL access MOU consist of feature groups A and B traffic originating from or terminating at offices converted to equal access, plus all feature groups C and D, and interstate intraLATA MOU.

Non-premium CCL access MOU consist of feature groups A and B traffic originating from or terminating at offices not converted to equal access.

Access MOU (both premium and non-premium) are "earned MOU" which are derived by dividing the premium or non-premium earned revenues by the corresponding rate. This definition of access minutes is in agreement with the 1990 TRP and ARMIS reports. Access minutes of use generating revenues have been discounted, which can produce distortions in revenue amounts. Further, revenues are normalized to include changes in terminating/originating and percent interstate use factors, billing adjustments, and the imputations of access charges (where applicable). Revenues are also calendarized, which will change derived minutes.

TABLE 4.1

NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.

SUPPLEMENTAL REPORT OF COMMON LINE POOL RESULTS
REPORTED AS OF JUNE, 1991

PAGE 1 OF 1

HISTORICAL CARRIER COMMON LINE MINUTES OF USE

TOTAL COMMON LINE

(MOU REPORTED IN MILLIONS)

PERIOD	PREMIUM CCL MOUS			NON PREMIUM CCL MOUS		
	ORIGINATING	TERMINATING	TOTAL	ORIGINATING	TERMINATING	TOTAL
JAN 89	9,356.244	11,577.768	20,934.013	159.607	525.517	685.125
FEB 89	9,011.894	11,336.133	20,348.028	147.470	522.286	669.756
MAR 89	10,095.583	12,765.982	22,861.565	175.236	552.440	727.676
APR 89	9,838.294	12,026.042	21,864.336	172.587	498.786	671.373
MAY 89	10,020.100	12,338.999	22,359.098	173.071	505.483	678.554
JUN 89	10,027.385	12,200.207	22,227.592	188.396	511.011	699.407
JUL 89	9,892.176	11,879.481	21,771.657	166.463	470.844	637.307
AUG 89	10,681.458	13,005.025	23,686.483	179.592	513.050	692.642
SEP 89	10,058.650	12,215.980	22,274.630	181.063	466.969	648.033
OCT 89	10,843.197	13,230.759	24,073.956	164.602	469.104	633.706
NOV 89	10,471.363	12,730.603	23,201.966	172.194	480.568	652.762
DEC 89	10,726.932	12,703.652	23,430.584	172.628	431.343	603.971
JAN 90	11,197.328	13,521.333	24,718.661	163.963	455.197	619.161
FEB 90	10,303.580	12,534.040	22,837.620	153.236	434.888	588.124
MAR 90	11,343.724	13,876.251	25,219.975	159.739	475.201	634.940
APR 90	10,945.931	13,372.045	24,317.975	160.408	440.802	601.210
MAY 90	11,341.935	13,853.008	25,194.943	151.702	442.080	593.782
JUN 90	10,979.099	13,366.860	24,345.960	161.715	444.600	606.316
JUL 90	11,343.646	13,937.998	25,281.644	158.361	435.865	594.225
AUG 90	11,717.085	14,550.577	26,267.662	173.595	427.655	601.250
SEP 90	10,894.209	13,591.626	24,485.835	156.862	410.199	567.061
OCT 90	11,712.783	14,586.634	26,299.417	158.474	407.985	566.459
NOV 90	11,239.205	13,962.752	25,201.957	189.782	378.551	568.333
DEC 90	11,873.343	14,149.012	26,022.356	140.194	354.177	494.371
JAN 91	11,779.872	14,495.097	26,274.969	133.300	361.539	494.839
FEB 91	10,704.515	13,729.378	24,433.893	129.370	337.731	467.101
MAR 91	11,669.523	14,772.599	26,442.123	133.183	339.694	472.877
APR 91	11,916.450	14,652.724	26,569.174	122.329	348.414	470.744

TABLE 4.2

NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.

SUPPLEMENTAL REPORT OF COMMON LINE POOL RESULTS
REPORTED AS OF JUNE, 1991

PAGE 1 OF 1

HISTORICAL CARRIER COMMON LINE MINUTES OF USE

TIER 1

(MOU REPORTED IN MILLIONS)

PERIOD	PREMIUM CCL MOUS			NON PREMIUM CCL MOUS		
	ORIGINATING	TERMINATING	TOTAL	ORIGINATING	TERMINATING	TOTAL
JAN 89	8,812.099	10,904.522	19,716.622	143.314	471.305	614.619
FEB 89	8,492.853	10,682.036	19,174.889	132.210	470.684	602.894
MAR 89	9,563.724	12,093.381	21,657.105	157.200	495.411	652.611
APR 89	9,087.512	11,406.043	20,493.555	130.533	418.260	548.793
MAY 89	9,301.370	11,735.553	21,036.922	130.459	423.541	553.999
JUN 89	9,309.455	11,603.183	20,912.638	136.250	414.610	550.860
JUL 89	9,160.571	11,285.323	20,445.893	118.687	379.363	498.050
AUG 89	9,898.538	12,374.727	22,273.265	125.840	414.120	539.960
SEP 89	9,290.956	11,606.675	20,897.631	119.829	361.600	481.429
OCT 89	10,062.535	12,602.982	22,665.517	107.905	362.455	470.360
NOV 89	9,689.889	12,110.468	21,800.357	116.137	374.684	490.821
DEC 89	9,916.750	12,071.684	21,988.434	112.368	326.460	438.828
JAN 90	10,442.344	12,844.209	23,286.553	113.695	348.936	462.630
FEB 90	9,588.952	11,886.963	21,475.915	102.791	323.153	425.944
MAR 90	10,608.946	13,212.854	23,821.800	107.937	355.829	463.767
APR 90	10,200.192	12,690.136	22,890.328	106.730	325.422	432.152
MAY 90	10,590.423	13,163.245	23,753.668	101.854	328.496	430.351
JUN 90	10,224.629	12,677.124	22,901.753	102.371	314.451	416.822
JUL 90	10,600.157	13,156.386	23,756.542	103.319	292.240	395.559
AUG 90	10,961.114	13,756.525	24,717.638	105.763	271.328	377.091
SEP 90	10,175.294	12,828.189	23,003.484	92.122	247.024	339.147
OCT 90	10,993.206	13,821.188	24,814.394	92.538	246.350	338.888
NOV 90	10,526.787	13,198.455	23,725.242	114.684	227.201	341.885
DEC 90	11,144.717	13,388.686	24,533.403	76.165	198.796	274.961
JAN 91	11,053.262	13,691.997	24,745.260	75.533	201.295	276.828
FEB 91	10,013.006	12,942.610	22,955.616	69.714	181.559	251.273
MAR 91	10,982.935	13,996.525	24,979.461	70.513	182.290	252.803
APR 91	11,191.684	13,848.019	25,039.703	66.631	193.801	260.432

TABLE 4.3

NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.

SUPPLEMENTAL REPORT OF COMMON LINE POOL RESULTS
REPORTED AS OF JUNE, 1991

PAGE 1 OF 1

HISTORICAL CARRIER COMMON LINE MINUTES OF USE

NON-TIER 1

(MOU REPORTED IN MILLIONS)

PERIOD	PREMIUM CCL MOUS			NON PREMIUM CCL MOUS		
	ORIGINATING	TERMINATING	TOTAL	ORIGINATING	TERMINATING	TOTAL
JAN 89	544.145	673.246	1,217.391	16.293	54.212	70.506
FEB 89	519.042	654.097	1,173.139	15.261	51.602	66.863
MAR 89	531.859	672.601	1,204.460	18.036	57.029	75.065
APR 89	750.782	619.999	1,370.781	42.054	80.526	122.581
MAY 89	718.730	603.446	1,322.176	42.613	81.942	124.555
JUN 89	717.930	597.024	1,314.954	52.146	96.401	148.547
JUL 89	731.605	594.158	1,325.763	47.777	91.481	139.257
AUG 89	782.920	630.298	1,413.218	53.752	98.929	152.681
SEP 89	767.694	609.305	1,376.999	61.234	105.369	166.603
OCT 89	780.662	627.777	1,408.438	56.696	106.649	163.346
NOV 89	781.474	620.135	1,401.609	56.057	105.884	161.941
DEC 89	810.182	631.968	1,442.150	60.260	104.883	165.143
JAN 90	754.984	677.124	1,432.108	50.269	106.262	156.530
FEB 90	714.628	647.077	1,361.704	50.445	111.735	162.180
MAR 90	734.778	663.397	1,398.175	51.802	119.371	171.173
APR 90	745.739	681.909	1,427.647	53.677	115.380	169.058
MAY 90	751.512	689.763	1,441.274	49.848	113.583	163.431
JUN 90	754.471	689.736	1,444.207	59.344	130.149	189.493
JUL 90	743.489	781.613	1,525.102	55.041	143.625	198.667
AUG 90	755.972	794.052	1,550.024	67.832	156.327	224.159
SEP 90	718.915	763.436	1,482.351	64.740	163.175	227.915
OCT 90	719.577	765.446	1,485.023	65.936	161.635	227.571
NOV 90	712.418	764.296	1,476.714	75.098	151.350	226.448
DEC 90	728.626	760.327	1,488.953	64.029	155.381	219.410
JAN 91	726.610	803.099	1,529.709	57.767	160.244	218.010
FEB 91	691.508	786.768	1,478.277	59.656	156.172	215.828
MAR 91	686.588	776.074	1,462.662	62.670	157.404	220.074
APR 91	724.766	804.705	1,529.471	55.698	154.613	210.312

TABLE 4.4

**INTERSTATE SWITCHED ACCESS MINUTES
(FIGURES SHOWN IN BILLIONS)**

	PREMIUM MINUTES	NON-PREMIUM MINUTES	TOTAL MINUTES
1984 THIRD QUARTER	32.0	5.5	37.5
FOURTH QUARTER	33.6	6.0	39.6
1985 FIRST QUARTER	32.9	6.6	39.6
SECOND QUARTER	34.9	6.6	41.5
THIRD QUARTER	36.6	6.2	42.8
FOURTH QUARTER	38.0	5.3	43.3
1986 FIRST QUARTER	38.8	4.3	43.0
SECOND QUARTER	41.0	3.8	44.8
THIRD QUARTER	43.2	3.5	46.7
FOURTH QUARTER	45.5	3.0	48.5
1987 FIRST QUARTER	48.0	3.2	51.2
SECOND QUARTER	49.3	3.1	52.5
THIRD QUARTER	52.1	2.9	55.0
FOURTH QUARTER	54.4	2.6	57.0
1988 FIRST QUARTER	56.6	2.4	59.0
SECOND QUARTER	57.3	2.3	59.6
THIRD QUARTER	59.8	2.3	62.1
FOURTH QUARTER	61.8	2.2	64.0
1989 FIRST QUARTER	64.1	2.1	66.2
SECOND QUARTER	66.5	2.0	68.5
THIRD QUARTER	67.7	2.0	69.7
FOURTH QUARTER	70.7	1.9	72.6
1990 FIRST QUARTER	72.8	1.8	74.6
SECOND QUARTER	73.9	1.8	75.7
THIRD QUARTER	76.0	1.8	77.8
FOURTH QUARTER	77.5	1.6	79.1
1991 FIRST QUARTER	77.7	1.4	79.1
INCREASE OVER PRIOR YEAR:			
1986	18.3%	-41.0%	9.5%
1987	21.0%	-18.8%	17.8%
1988	15.5%	-22.5%	13.4%
1989	14.3%	-13.0%	13.2%
1990	11.6%	-16.7%	10.5%

TABLE 4.5

1989 NON-TIER 1 COST COMPANIES NETWORK USAGE DATA
ACCESS MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
250302	89	ALLTEL ALABAMA	14,340	11,428	25,767	949	1,711	2,661
250284	89	BUTLER TEL CO	4,058	3,205	7,263	23	40	63
250281	89	CONTEL OF THE SOUTH	44,177	56,964	101,141	332	5,713	6,045
250297	89	GROVE HILL TEL CORP	1,075	846	1,921	14	24	37
250298	89	GULF TEL CO - AL	30,051	23,403	53,454	2,227	3,961	6,188
250300	89	HOPPER TEL. CO INC	1,103	864	1,967	0	0	0
250304	89	MILLRY TEL CO	4,221	3,330	7,551	361	645	1,006
250306	89	MONROEVILLE TEL CO	10,651	8,478	19,128	1,261	2,244	3,505
250314	89	PEOPLES TEL CO	9,166	7,157	16,323	47	81	128
250316	89	RAGLAND TEL CO	467	369	836	0	0	0
250318	89	SOUTHLAND TEL CO-AL	10,176	8,114	18,290	1,426	2,550	3,976
613000	89	ANCHORAGE TEL UTIL	190,349	148,940	339,290	0	0	0
613001	89	ARCTIC SLOPE TEL	3,809	2,914	6,723	0	0	0
613003	89	BRISTOL BAY TEL COOP	1,718	1,241	2,958	0	0	0
613004	89	BUSH-TELL INC.	273	216	489	0	0	0
613006	89	COPPER VALLEY TEL	7,866	5,720	13,586	0	0	0
613007	89	CORDOVA TEL COOP	2,949	2,172	5,121	0	0	0
613008	89	FAIRBANKS MUNICIPAL	38,188	29,988	68,176	0	0	0
613010	89	GLACIER STATE TEL CO	54,480	42,495	96,975	0	0	0
613009	89	GTE ALASKA INC.	14,753	13,481	28,234	0	0	0
613011	89	INTERIOR TEL CO INC	6,128	4,653	10,781	0	0	0
613012	89	JUNEAU & DOUGLAS TEL	31,439	25,206	56,645	0	0	0
613013	89	KETCHIKAN PUBLIC UT	13,892	10,725	24,616	285	489	774
613015	89	MATANUSKA TEL ASSOC	36,950	28,890	65,840	0	0	0
613016	89	MUKLUK TEL CO INC	439	346	785	0	0	0
613018	89	NUSHAGAK TEL COOP	1,419	1,066	2,486	0	0	0
613019	89	OTZ TEL COOPERATIVE	1,861	1,419	3,280	0	0	0
613020	89	SITKA TELEPHONE CO	13,965	10,670	24,635	0	0	0
613022	89	TEL UTIL OF ALASKA	6,590	5,106	11,695	0	0	0
613023	89	UNITED UTILITIES INC	1,823	1,413	3,236	0	0	0
613025	89	YUKON TEL CO INC	368	274	642	0	0	0
452171	89	ARIZONA TELEPHONE CO	1,258	974	2,232	0	0	0
452172	89	CITIZENS UTILITIES	91,016	71,944	162,960	5,276	9,563	14,838
452302	89	CONTEL CALIF - AZ	6,917	7,091	14,008	521	1,788	2,309
452177	89	CONTEL OF WEST-AZ	15,748	18,918	34,666	70	2,602	2,672
452275	89	NAVAJO COMMUN-AZ	11,715	9,159	20,873	187	351	539
452173	89	PAPAGO TRIBAL UTIL.	609	488	1,097	0	0	0
452175	89	UNIVERSAL TEL OF SW	967	754	1,721	5	8	14
452176	89	VALLEY TEL COOP-AZ	2,347	1,872	4,219	191	333	524
401691	89	ALLTEL ARKANSAS INC	60,757	47,442	108,199	709	1,332	2,041
401692	89	ARKANSAS TEL CO	5,663	4,444	10,108	0	0	0
401697	89	CENTRAL ARKANSAS TEL	1,578	1,234	2,812	0	0	0
401705	89	CENTURY OF ARKANSAS	12,091	9,561	21,652	186	354	540
401698	89	CLEVELAND COUNTY TEL	1,474	1,160	2,635	0	0	0
401730	89	CONTEL OF ARKANSAS	56,438	59,509	115,947	463	552	1,016
401699	89	DECATUR TEL CO INC	747	585	1,332	9	15	23
401709	89	MADISON COUNTY TEL	2,025	1,593	3,618	0	0	0
401711	89	MOUNTAIN HOME TEL	18,372	14,552	32,925	364	716	1,080
401713	89	NORTH ARKANSAS TEL	5,729	4,580	10,309	0	0	0
401717	89	PERCO TELEPHONE CO	1,673	1,352	3,025	37	75	112
401720	89	REDFIELD TEL CO	1,155	904	2,059	22	41	63
401702	89	SOUTH ARKANSAS TEL	2,775	2,209	4,984	0	0	0
401726	89	TRI-COUNTY TEL CO-AR	3,754	3,015	6,770	51	102	153
401727	89	UNION TEL CO INC	1,224	966	2,190	10	17	27
401729	89	WALNUT HILL TEL CO	10,544	10,672	21,216	0	0	0
401733	89	YELCOT TEL CO INC	2,895	2,342	5,236	50	99	149
401734	89	YELL COUNTY TEL CO	2,910	2,299	5,209	44	120	164
542304	89	C P NATIONAL CORP-CA	7,662	5,898	13,560	770	1,373	2,143
542301	89	CALAVERAS TEL CO	780	605	1,386	138	246	384
542311	89	CALIF-OREGON TEL CO	2,846	2,150	4,996	141	247	388
542308	89	CITIZENS UTIL OF CA	38,358	30,036	68,395	5,128	9,112	14,239
542313	89	DUCOR TELEPHONE CO	182	151	333	43	75	118
542315	89	EVANS TEL CO.	4,471	3,502	7,973	2,604	4,884	7,488
542318	89	FORESTHILL TEL CO.	889	690	1,579	350	670	1,020
542321	89	HAPPY VALLEY TEL CO	1,305	1,033	2,338	17	29	47
542322	89	HORNITOS TEL CO	355	287	643	3	5	8
542324	89	KERMAN TELEPHONE CO	1,960	1,563	3,523	234	420	654

TABLE 4.5

1989 NON-TIER 1 COST COMPANIES NETWORK USAGE DATA
ACCESS MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
542346	89	PINNACLES TEL CO	147	114	261	12	22	34
542332	89	THE PONDEROSA TEL CO	2,409	1,890	4,299	44	70	114
542334	89	ROSEVILLE TEL CO	45,459	35,587	81,046	8,018	16,172	24,190
542338	89	SIERRA TELEPHONE CO	7,509	5,897	13,406	578	1,066	1,645
542339	89	THE SISKIYOU TEL CO	2,995	2,337	5,333	233	408	641
542342	89	TUOLUMNE TEL CO	1,812	1,390	3,201	311	555	865
542343	89	THE VOLCANO TEL CO	3,103	2,449	5,552	568	1,023	1,592
542323	89	WINTERHAVEN TEL. CO.	2,774	2,191	4,965	57	101	158
462192	89	BIG SANDY TELCOMM	498	395	893	44	78	122
462181	89	BIJOU TEL COOP ASSOC	1,098	869	1,967	2	4	6
462182	89	BLANCA TEL CO	544	417	962	0	0	0
462204	89	COLUMBINE TEL CO	952	746	1,698	0	0	0
462184	89	DELTA COUNTY TEL CO	5,583	4,331	9,914	59	118	176
462185	89	EAGLE TELECOMMUN INC	8,011	6,216	14,227	1,323	2,555	3,878
462186	89	EASTERN SLOPE RURAL	3,537	2,785	6,321	129	219	348
462187	89	EL PASO COUNTY TEL	1,656	2,057	3,714	0	0	0
462188	89	FARMERS TEL CO - CO	386	299	685	2	3	5
462190	89	HAXTUN TEL CO	1,045	856	1,901	0	0	0
462193	89	NUCLA-NATURITA TEL	1,007	791	1,798	0	0	0
462194	89	NUNN TEL CO	242	189	430	20	34	54
462196	89	PEETZ COOP TEL CO	309	243	551	15	26	41
462199	89	PLAINS COOP TEL ASSN	1,353	1,069	2,421	0	0	0
462203	89	RYE TELEPHONE CO	1,413	1,108	2,520	7	13	20
462207	89	STRASBURG TEL CO	805	640	1,445	201	355	556
461835	89	SUNFLOWER TEL - CO.	392	306	698	0	0	0
462208	89	UNIVERSAL TEL CO -CO	6,007	4,667	10,675	273	484	757
462209	89	WIGGINS TEL ASSOC	1,067	845	1,912	0	0	0
210336	89	ALLTEL FLORIDA INC.	44,900	35,873	80,773	2,296	4,250	6,546
210291	89	FLORALA TEL CO	3,170	2,537	5,707	18	29	47
210329	89	GULF TEL CO	5,748	4,542	10,290	616	1,196	1,813
210331	89	INDIANTOWN SYSTEM	1,938	1,521	3,458	1,046	2,007	3,053
210335	89	NORTHEAST FLORIDA	4,156	3,257	7,413	1,841	3,540	5,380
210338	89	QUINCY TEL CO-FL DIV	8,504	6,589	15,092	0	0	0
210339	89	ST JOSEPH TEL & TEL	17,054	13,334	30,388	2,804	5,502	8,306
210318	89	SOUTHLAND TEL-FL	2,929	2,326	5,254	211	413	624
210330	89	VISTA-UNITED TELCOM	17,611	13,867	31,478	11,162	22,180	33,342
220344	89	ALMA TEL CO	3,205	2,532	5,738	307	552	859
220347	89	BRANTLEY TEL CO	2,234	1,761	3,995	31	59	90
220351	89	CAMDEN TEL & TEL CO	21,498	16,576	38,075	2,028	3,852	5,880
220355	89	CITIZENS TEL CO - GA	2,410	1,891	4,301	0	0	0
220356	89	COASTAL UTILITIES	31,621	24,516	56,138	4,900	8,997	13,897
220281	89	CONTEL OF SOUTH - GA	32,379	39,032	71,411	1,385	9,898	11,283
220358	89	DARIEN TEL CO	2,928	2,315	5,243	0	0	0
220360	89	ELLIJAY TEL CO	3,963	3,113	7,076	359	711	1,070
220371	89	INTERSTATE TEL CO	7,310	9,139	16,449	0	0	0
220377	89	PINELAND TEL COOP	5,324	4,214	9,538	0	0	0
220379	89	PLANT TEL. CO.	4,293	3,379	7,671	685	1,361	2,046
220381	89	PUBLIC SERVICE TEL	3,710	2,924	6,634	1,290	2,259	3,549
220338	89	QUINCY TEL CO-GA DIV	1,200	922	2,122	0	0	0
220386	89	STANDARD TEL CO	30,014	23,116	53,130	2,765	5,673	8,438
220392	89	WAVERLY HALL TEL CO	1,240	986	2,226	0	0	0
220394	89	WILKES TEL & ELC CO	5,383	4,211	9,594	0	0	0
472213	89	ALBION TEL CO INC	1,202	939	2,141	0	0	0
472215	89	CAMBRIDGE TEL CO	917	703	1,620	0	0	0
472225	89	CENTURY TEL OF IDAHO	4,041	3,195	7,237	94	163	257
472177	89	CONTEL OF WEST-ID	10,696	11,038	21,734	12	446	458
472218	89	CUSTER TEL COOP	2,378	1,881	4,259	0	0	0
472223	89	GEM STATE UTIL-ID	1,094	849	1,943	167	332	499
472423	89	INLAND TEL-ID	318	251	569	0	0	0
472226	89	MIDVALE TEL EXCH INC	282	219	501	77	139	216
472231	89	PROJECT MUTUAL TEL	5,382	4,244	9,626	0	0	0
472232	89	ROCKLAND TEL CO INC	348	272	621	0	0	0
472233	89	RURAL TEL CO - ID	212	157	370	2	4	6
472295	89	SILVER STAR TEL- ID	388	303	691	0	0	0
472234	89	TROY TELEPHONE CO	943	745	1,689	0	0	0
341000	89	ALLTEL ILLINOIS INC.	39,889	31,679	71,568	1,233	2,290	3,523
341036	89	CONTEL OF ILLINOIS	101,770	139,613	241,383	7,926	11,290	19,216

TABLE 4.5

1989 NON-TIER 1 COST COMPANIES NETWORK USAGE DATA
ACCESS MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
341004	89	EL PASO TEL CO	1,168	918	2,086	18	34	52
341023	89	GRIDLEY TEL CO	891	715	1,606	20	40	60
341037	89	IL CONSOLIDATED TEL	51,637	40,842	92,479	14,373	29,187	43,560
341038	89	INLAND TEL CO	2,548	2,031	4,578	43	85	128
341045	89	LEAF RIVER VLY TEL	370	297	667	0	0	0
341055	89	MIDLAND TEL CO	2,421	1,923	4,344	19	32	51
341060	89	MOULTRIE INDEPENDENT	275	218	492	2	4	6
320753	89	CLAY CTY RURAL COOP	4,530	3,581	8,111	64	112	176
320776	89	COMM CORP OF INDIANA	5,926	4,655	10,581	0	0	0
320779	89	CONTEL OF INDIANA	98,453	98,317	196,770	16,291	17,570	33,861
320797	89	NEW PARIS TEL INC	1,281	1,028	2,309	37	77	114
320800	89	NORTHWESTERN INDIANA	9,768	7,689	17,457	27	43	70
351346	89	ACE TEL ASSN-IA	2,745	2,139	4,884	0	0	0
351105	89	AYRSHIRE FARMERS MUT	238	190	428	6	10	16
351110	89	BERNARD TEL CO INC	269	215	484	60	105	165
351127	89	CENDEL OF IOWA	25,763	23,768	49,531	2,217	0	2,217
351207	89	CONTEL OF IOWA, INC.	38,888	46,528	85,416	3,096	3,478	6,575
351888	89	GRAND RIVER MUT-IA	6,773	5,373	12,146	130	244	375
351229	89	LOST NATION-ELWOOD	368	291	659	60	106	166
351316	89	UNITED FARMERS TEL	523	419	943	0	0	0
351327	89	WEBB-DICKENS TEL	17,652	22,104	39,756	1,020	0	1,020
411741	89	ASSARIA TEL EXCHANGE	265	211	476	0	0	0
411746	89	BLUE VALLEY TEL CO	1,633	1,295	2,928	0	0	0
411818	89	CRAW-KAN TEL COOP	9,963	7,877	17,840	36	61	97
411761	89	CUNNINGHAM TEL CO	821	645	1,466	0	0	0
411764	89	ELKHART TEL CO INC	2,096	1,657	3,753	28	55	83
411781	89	H & B COMMUNICATIONS	818	645	1,463	13	24	37
411782	89	HOME TEL CO	1,015	800	1,815	0	0	0
411785	89	J. B. N. TEL CO INC	1,118	1,407	2,525	0	0	0
411788	89	KANOKLA TEL ASSN-KS	1,821	1,453	3,275	28	55	84
411801	89	MADISON TEL CO INC	593	472	1,065	0	0	0
411807	89	MOKAN DIAL INC-KS	1,754	1,377	3,131	0	0	0
411808	89	MOUNDRIDGE TEL CO	1,443	1,169	2,612	0	0	0
411814	89	PEOPLES MUTUAL TEL	1,040	813	1,853	0	0	0
411817	89	PIONEER TEL ASSN INC	11,697	9,196	20,893	236	456	692
411826	89	RURAL TEL SERVICE CO	4,243	3,345	7,588	64	110	173
411827	89	S & T TEL COOP ASSN	1,270	1,002	2,272	0	0	0
411831	89	S. CENTRAL TEL - KS	696	544	1,240	0	0	0
411835	89	SUNFLOWER TEL CO	3,463	2,711	6,174	0	0	0
412030	89	TOTAH TELEPHONE CO	1,232	966	2,198	0	0	0
411840	89	TWIN VALLEY TEL INC	1,126	899	2,025	0	0	0
411841	89	UNITED TEL ASSN	4,057	3,178	7,235	0	0	0
411317	*	UTC-IA DBA UTC-E. KS	1,029	1,285	2,314	0	0	0
411957	*	UTC-MO DBA UTC-SE KS	1,029	1,285	2,314	0	0	0
411847	89	THE WHEAT STATE TEL	1,190	928	2,118	0	0	0
411849	89	WILSON TEL CO INC	986	786	1,772	0	0	0
411852	89	ZENDA TEL COMPANY	119	95	214	0	0	0
260410	89	CONTEL OF KENTUCKY	34,602	51,084	85,686	164	1,075	1,240
270431	89	CADDOAN TEL CO	8,022	6,366	14,388	1,175	2,103	3,278
270425	89	CAMERON TEL CO - LA	4,577	3,589	8,165	1,539	2,767	4,306
270423	89	CENTRAL LOUISIANA	8,974	7,140	16,114	2,154	3,841	5,994
270440	89	CENTURY TEL CO	1,430	1,129	2,559	356	633	989
270436	89	CENTURY NORTH LA	4,038	2,869	6,907	692	1,214	1,907
270424	89	COASTAL TEL & ELECTR	4,630	3,672	8,302	1,554	2,803	4,357
270429	89	EAST ASCENSION TEL	13,169	10,375	23,544	3,162	5,747	8,909
270430	89	ELIZABETH TEL CO	1,137	894	2,031	310	557	867
270434	89	EVANGELINE TEL CO	13,872	10,995	24,867	4,748	8,724	13,472
270433	89	LAFOURCHE TEL CO	5,669	4,452	10,122	1,491	2,689	4,179
270442	89	LOUISIANA WESTERN	2,931	2,332	5,263	595	1,077	1,672
270435	89	NORTHEAST LOUISIANA	943	749	1,692	251	456	708
270438	89	RESERVE TEL CO	3,310	2,613	5,923	670	1,163	1,833
100004	89	CHINA TEL CORP	2,238	1,763	4,001	49	84	133
100014	89	CONTEL OF MAINE	28,129	35,666	63,795	1,512	7,449	8,961
100010	89	HAMPDEN TEL CO	1,901	1,504	3,405	0	0	0
100011	89	HARTLAND & ST ALBANS	2,391	1,878	4,269	16	28	44
100003	89	LINCOLNVILLE TEL CO	1,226	938	2,163	140	269	409
100024	89	SOMERSET TEL CO	8,490	6,797	15,287	250	478	728

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FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
100025	89	STANDISH TEL CO	6,183	4,839	11,022	460	915	1,374
100027	89	UNION RIVER TEL CO	615	486	1,101	0	0	0
100029	89	UNITY TEL CO., INC.	3,289	2,620	5,909	1,005	1,899	2,904
100031	89	WARREN TEL CO	1,374	1,084	2,458	12	21	32
100034	89	WEST PENOBSCOT TEL	1,504	1,179	2,683	9	15	24
310704	89	ACE TEL OF MICHIGAN	2,229	1,763	3,992	0	0	0
310681	89	ALLTEL MICHIGAN INC.	31,966	25,189	57,155	785	1,537	2,322
310679	89	BLOOMINGDALE TEL CO	994	777	1,772	6	11	17
310682	89	C, C & S TELCO - MI	7,967	10,387	18,353	0	0	0
310683	89	CARR TEL CO	522	396	918	0	0	0
310671	*	CENTURY TEL. MIDWEST	2,362	2,950	5,312	0	0	0
310702	89	CENTURY OF MICHIGAN	21,196	16,589	37,786	836	1,609	2,445
310685	89	CHATHAM TEL CO - MI	1,574	1,237	2,810	0	0	0
310680	89	CHIPPEWA COUNTY TEL	463	357	820	0	0	0
310713	89	HIAWATHA TEL CO	2,692	2,098	4,789	97	169	266
310711	89	MIDWAY TEL CO	492	386	878	0	0	0
310714	89	OGDEN TEL CO	387	304	691	3	6	9
310717	89	ONTONAGON COUNTY TEL	3,229	2,570	5,799	29	61	90
310721	89	PIGEON TEL CO	1,349	1,077	2,426	111	193	304
310728	89	SPRINGPORT TEL CO	839	673	1,512	4	7	12
310732	+	UPPER PENINSULA TEL	2,362	2,950	5,312	0	0	0
310737	89	WINN TEL CO	286	229	516	22	40	62
310738	89	WOLVERINE TEL CO	3,400	2,726	6,126	0	0	0
361346	89	ACE TEL ASSN-MN	9,339	7,190	16,529	0	0	0
361374	89	ARROWHEAD COMM CORP	293	228	521	37	65	102
361350	89	ARVIG TEL CO	4,477	3,441	7,918	34	56	89
361370	89	CLARA CITY TEL EXCH	709	563	1,272	0	0	0
361140	89	CONTEL OF MINNESOTA	48,123	58,617	106,740	2,373	2,801	5,174
361385	89	EAST OTTER TAIL TEL	8,223	6,477	14,700	798	1,423	2,221
361395	89	GARDEN VALLEY TEL CO	10,002	8,076	18,078	206	355	561
361410	89	JOHNSON TEL CO	738	572	1,310	14	24	38
361414	89	LAKEDALE TEL CO	3,568	2,810	6,378	286	506	793
361433	89	MID STATE TEL CO	3,190	2,515	5,704	290	500	790
361442	89	NEW ULM TELECOM, INC	6,070	4,835	10,906	423	731	1,155
361451	89	PAUL BUNYAN RURAL	3,686	2,916	6,602	236	415	651
361483	89	SLEEPY EYE TEL CO	3,019	2,423	5,442	0	0	0
361491	89	TWIN VALLEY-ULEN TEL	1,896	1,485	3,381	35	76	111
280453	89	ALLTEL MISSISSIPPI	7,181	5,723	12,905	1,291	2,391	3,682
280446	89	BAY SPRINGS TEL CO	6,663	5,355	12,019	0	0	0
280452	89	DELTA TEL CO	1,924	1,513	3,436	289	505	793
280454	89	FRANKLIN TEL CO - MS	4,101	3,211	7,311	0	0	0
280456	*	GEORGETOWN TEL CO	2,362	2,950	5,312	0	0	0
280458	89	HOME TEL CO-OLIVE BR	21,311	16,844	38,155	1,640	2,933	4,573
280459	89	HUGHES TEL CO	3,428	2,693	6,121	368	645	1,013
280461	89	SOUTHEAST MS TEL CO	1,604	1,094	2,698	0	0	0
421885	89	ALLTEL MISSOURI	18,286	14,479	32,765	70	124	194
421865	89	CITIZENS TEL CO - MO	2,056	1,634	3,690	295	550	845
421922	89	CONTEL OF MISSOURI	97,229	122,998	220,227	8,352	18,448	26,800
421846	89	CONTINENTAL SYS. -MO	24,137	30,464	54,601	3,026	3,647	6,673
421873	89	EASTERN MISSOURI TEL	1,422	1,114	2,536	9	17	27
421882	89	FIDELITY TEL CO	5,477	4,343	9,820	0	0	0
421886	+	GOODMAN TEL CO	1,029	1,285	2,314	0	0	0
421888	89	GRAND RIVER MUT-MO	8,963	7,092	16,055	452	873	1,325
421929	89	HOLWAY TEL CO	332	260	592	3	6	10
421901	89	KINGDOM TELEPHONE CO	1,767	1,399	3,165	506	819	1,324
421908	89	LE-RU TELEPHONE CO	1,157	908	2,065	0	0	0
421904	89	MISSOURI TEL CO	10,904	8,561	19,465	148	264	412
421807	89	MOKAN DIAL INC-MO	682	541	1,222	0	0	0
421931	89	NE MISSOURI RURAL	2,612	2,073	4,685	0	0	0
421934	89	ORCHARD FARM TEL CO	308	241	549	44	84	128
421951	89	STOUTLAND TEL CO	685	543	1,228	0	0	0
482235	89	BLACKFOOT TEL COOP	6,014	4,725	10,739	240	414	654
482241	89	HOT SPRINGS TEL CO	438	354	792	1	1	2
482242	89	INTERBEL TEL COOP	1,317	1,050	2,367	0	0	0
482244	89	LINCOLN TEL CO INC	653	514	1,168	0	0	0
482246	89	MID-RIVERS TEL COOP	5,513	4,335	9,848	69	133	202
482247	89	NEMONT TEL COOP-MT	2,230	1,752	3,982	0	0	0

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FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
482248	89	NORTHERN TEL COOP	1,770	1,389	3,159	22	42	64
482249	89	NW TEL SYSTEMS, INC.	38,101	30,787	68,888	5,899	11,407	17,305
482250	89	PROJECT TEL CO	2,949	2,314	5,263	0	0	0
482251	89	RANGE TEL COOP-MT	3,551	2,785	6,336	49	82	131
482254	89	SOUTHERN MONTANA TEL	790	609	1,399	9	16	25
482255	89	3-RIVERS TEL COOP	8,401	6,594	14,995	650	1,057	1,707
482257	89	TRIANGLE TEL COOP	7,372	5,768	13,140	548	915	1,463
482258	89	VALLEY RURAL TEL	660	520	1,179	64	113	177
371516	89	ARAPAHOE TEL CO	660	525	1,186	47	83	129
371517	89	ARLINGTON TEL CO	674	538	1,212	55	97	153
372455	89	BENKELMAN TEL CO	1,167	932	2,100	65	116	181
371524	89	BLAIR TEL CO	7,078	5,677	12,755	265	474	739
371526	89	CAMBRIDGE TEL CO -NE	753	604	1,357	61	106	167
371531	89	CLARKS TEL CO	505	405	910	22	40	62
371534	89	COZAD TEL CO	1,692	1,351	3,043	176	312	489
371536	89	CURTIS TEL CO	437	342	779	44	77	121
371537	89	DALTON TEL CO, INC	1,209	944	2,153	0	0	0
371540	89	DILLER TEL CO	463	360	823	0	0	0
371542	89	EASTERN NEBRASKA TEL	2,250	1,797	4,047	168	295	463
371577	89	GREAT PLAINS COMMUN	19,068	15,063	34,131	2,989	5,872	8,862
371557	89	HARTMAN TEL EXCH INC	571	454	1,025	0	0	0
371558	89	HEMINGFORD COOP TEL	885	703	1,587	54	95	148
371567	89	KEYSTONE-ARTHUR TEL	401	299	700	43	76	120
371574	89	NEBRASKA CENTRAL TEL	4,048	3,168	7,216	1,351	2,355	3,706
371580	89	PETERSBURG TEL CO	165	133	299	26	45	71
371586	89	ROCK COUNTY TEL CO	654	527	1,180	90	157	247
371591	89	SE NEBRASKA TEL CO	2,834	2,193	5,027	0	0	0
371592	89	STANTON TEL CO, INC	737	566	1,302	94	163	257
371525	89	THREE RIVER TELCO	1,044	831	1,875	68	121	188
371597	89	WAUNETA TEL CO	582	468	1,050	41	73	114
552284 +	89	BEEHIVE TEL CO - NV	163	203	366	0	0	0
552304	89	CP NATIONAL-NV	21,975	16,955	38,930	1,215	2,216	3,432
552349	89	CHURCHILL COUNTY TEL	16,828	13,149	29,976	0	0	0
552302	89	CONTEL OF CALIF-NV	30,670	35,636	66,306	8,597	5,752	14,349
552223	89	GEM STATE UTIL-NV	676	519	1,195	43	79	121
552351	89	LINCOLN CTY TEL SYS	1,892	1,468	3,360	35	66	101
552353	89	MOAPA VALLEY TEL CO.	2,520	1,978	4,498	0	0	0
552354	89	NEVADA TEL-TELEGRAPH	6,308	4,900	11,208	226	408	634
552356	89	RIO VIRGIN TEL CO	2,982	2,327	5,309	57	104	161
552233	89	RURAL TEL CO - NV	967	778	1,745	12	26	38
120038	89	BRETTON WOODS TEL CO	360	278	637	62	123	185
120040	89	CHICHESTER TEL CO	1,401	1,082	2,483	6	10	16
120041	89	CONTEL OF NH	12,365	12,997	25,362	704	2,889	3,593
120039	89	GRANITE STATE TEL	9,482	7,434	16,916	977	1,874	2,852
120045	89	KEARSARGE TEL CO	9,505	7,480	16,985	59	103	163
120046	89	MERIDEN TEL CO	1,075	843	1,918	6	11	17
120047	89	MERRIMAK COUNTY TEL	7,739	6,055	13,794	234	419	653
120049	89	UNION TEL CO	7,567	5,885	13,451	548	1,071	1,619
120050	89	WILTON TEL CO - NH	4,499	3,524	8,022	282	493	776
160135	89	WARWICK VALLEY-NJ	6,563	7,221	13,784	6	20	27
492259	89	BACA VALLEY TEL CO	747	584	1,331	58	105	162
492177	89	CONTEL OF WEST - NM	20,251	21,570	41,821	51	1,732	1,783
492066	89	DELL TEL CO-OP - NM	291	226	517	0	0	0
492262	89	ENMR TEL COOP INC-NM	10,769	8,348	19,117	43	75	118
492263	89	LA JICARITA RURAL	1,101	868	1,969	0	0	0
492264	89	LEACO RURAL TEL COOP	1,022	788	1,810	0	0	0
492275	89	NAVAJO COMMUN - NM	4,327	3,403	7,730	60	114	174
492270	89	PENASCO VALLEY TEL	1,698	1,308	3,006	12	24	36
492272	89	ROOSEVELT CNTY RURAL	1,598	1,260	2,857	0	0	0
492274	89	UNIVERSAL TEL OF SW	4,750	3,716	8,466	94	166	259
492176	89	VALLEY TEL COOP - NM	1,987	1,584	3,571	176	308	484
492268	89	WESTERN NEW MEXICO	5,798	4,505	10,303	0	0	0
150106	89	ALLTEL NY-FULTON	32,467	25,725	58,192	2,241	4,598	6,839
150109	89	ALLTEL NY-JAMESTOWN	44,756	35,245	80,002	1,107	2,265	3,371
150113	89	ALLTEL NY-RED JACKET	1,178	924	2,103	255	491	746
150072	89	AU SABLE VALLEY TEL	3,144	3,494	6,639	94	537	631
150077	89	CHAMPLAIN TEL CO	5,900	4,615	10,515	1,067	2,065	3,131

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FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
150078	89	CHAUTAQUA & ERIE	4,510	3,585	8,095	2,645	4,938	7,583
150081	89	CITIZENS HAMMOND NY	642	500	1,142	0	0	0
150082	89	CLYMER TEL CO	1,289	1,013	2,302	129	267	397
150085	89	CROWN POINT TEL CORP	617	480	1,097	51	102	153
150091	89	DUNKIRK & FREDONIA	4,581	3,599	8,181	1,053	2,118	3,172
150092	89	EDWARDS TEL CO	960	755	1,716	0	0	0
150093	89	EMPIRE TEL CORP	4,446	3,517	7,963	649	1,280	1,929
150097	89	GERMANTOWN TEL CO	1,509	1,196	2,705	168	330	498
150099	89	HANCOCK TEL CO	1,297	1,017	2,314	187	373	560
150100	89	HIGHLAND TEL CO	45,492	48,894	94,386	1,677	8,629	10,307
150105	89	MIDDLEBURGH TEL CO	2,628	2,077	4,705	391	749	1,140
150108	89	NICHOLVILLE TEL CO	958	752	1,710	140	273	413
150110	89	OGDEN TEL CO	10,447	8,401	18,847	1,745	3,444	5,189
150116	89	PATTERSONVILLE TEL	812	637	1,449	117	231	348
150119	89	RED HOOK TEL CO	9,041	11,637	20,678	384	3,395	3,780
150122	89	SENECA-GORHAM TEL	3,139	4,160	7,299	794	2,010	2,804
150128	89	SYLVAN LAKE TEL CO	10,449	10,208	20,657	402	1,600	2,002
150084	89	TACONIC TEL CORP	20,269	15,844	36,113	2,764	5,374	8,138
150133	89	VERNON TEL CO	1,450	1,135	2,585	239	470	709
150135	89	WARWICK VALLEY-NY	13,193	14,487	27,681	507	3,346	3,852
150136	89	WESTERN COUNTIES TEL	13,848	14,618	28,466	239	4,192	4,432
230476	89	ALLTEL CAROLINA-NO	118,375	94,251	212,626	3,013	5,763	8,776
230468	89	ATLANTIC MEMBERSHIP	17,425	13,454	30,879	0	0	0
230469	89	BARNARDVILLE TEL CO	681	537	1,218	19	33	52
230473	89	CITIZENS TEL CO	13,771	10,567	24,338	1,899	3,781	5,681
230474	89	CONCORD TEL CO	51,518	40,673	92,191	9,734	20,547	30,281
230509	89	CONTEL OF NC	61,701	72,757	134,457	2,010	21,862	23,872
230481	89	HEINS TEL CO	15,121	12,065	27,186	3,219	5,937	9,155
230502	89	STAR MEMBERSHIP CORP	7,811	6,148	13,959	2	3	4
230510	89	WILKES MEMBERSHIP	2,593	2,052	4,646	659	1,265	1,924
381607	89	CONSOLIDATED COOP	3,515	2,734	6,249	0	0	0
381447	89	CONTEL OF N. DAKOTA	5,914	7,405	13,319	271	359	630
381616	89	INTER-COMMUNITY TEL	930	734	1,664	26	48	73
381617	89	MIDSTATE TEL CO	1,346	1,086	2,432	9	20	29
381630	89	POLAR COMM MUT AID	7,279	5,757	13,036	57	100	157
381632	89	RESERVATION TEL COOP	2,650	3,313	5,963	16	51	67
381634	89	SOURIS RIVER TEL MUT	15,967	12,612	28,578	130	236	366
381637	89	W. RIVER MUTUAL AID	7,446	5,832	13,278	441	732	1,174
300665	89	ALLTEL OHIO-WEST OH	13,145	10,435	23,580	1,064	2,081	3,145
300682	89	C, C & S TELCO -OHIO	300	417	717	0	0	0
300597	89	THE CHILLICOTHE TEL	18,359	14,066	32,426	136	454	590
300607	89	CONTEL OF OHIO	950	758	1,708	0	0	0
300620	89	HARLAN TEL CO	458	362	820	0	0	0
300613	89	LITTLE MIAMI COMM.	864	679	1,543	0	0	0
431965	89	ALLTEL OKLAHOMA INC	8,599	6,749	15,348	0	0	0
431966	89	ATLAS TEL CO	1,423	1,108	2,531	0	0	0
431974	89	CANADIAN VALLEY TEL	572	452	1,024	0	0	0
431976	89	CARNEGIE TEL CO INC	777	623	1,400	0	0	0
431979	89	CHEROKEE TEL CO	5,622	4,449	10,071	0	0	0
431980	89	CHICKASAW TEL CO	4,759	3,750	8,509	0	0	0
431981	89	CHOUTEAU TEL CO	1,558	1,209	2,767	0	0	0
431985	89	CROSS TEL CO	4,472	3,546	8,018	0	0	0
431988	89	DOBSON TEL CO	3,096	2,440	5,536	0	0	0
431994	89	GRAND TEL CO INC	1,438	1,120	2,558	0	0	0
431995	89	HINTON TEL CO	1,642	1,290	2,933	0	0	0
431788	89	KANOKLA TEL ASSN-OK	1,161	920	2,081	11	20	31
432006	89	M-CLOUD TEL CO	4,065	3,224	7,290	0	0	0
432011	89	OKLAHOMA ALLTEL, INC	12,562	9,911	22,472	224	432	656
431984	89	OKLAHOMA COMM SYSTEM	8,575	6,749	15,324	116	203	319
432013	89	OKLAHOMA TEL & TEL	1,002	793	1,795	0	0	0
432014	89	OKLAHOMA WESTERN TEL	1,944	1,534	3,478	0	0	0
432016	89	PANHANDLE TEL COOP	9,237	7,290	16,527	95	203	298
432018	89	PIONEER TEL COOP INC	20,535	16,116	36,651	1,982	3,796	5,778
432020	89	POTTAWATOMIE TEL CO	1,152	916	2,068	0	0	0
431831	89	S. CENTRAL TEL - OK	462	362	824	0	0	0
432030	89	TOTAH TELEPHONE CO	1,500	1,185	2,685	0	0	0
432032	89	VALLIANT TEL CO	1,618	1,281	2,899	0	0	0

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FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
432034	89	WYANDOTTE TEL CO	648	509	1,157	5	10	15
532404	89	ASOTIN TEL - OR	159	125	283	3	5	9
532359	89	BEAVER CREEK COOP	3,544	2,809	6,353	246	399	645
532304	89	C P NATIONAL CORP-OR	10,888	8,554	19,442	175	321	495
532362	89	CANBY TEL ASSN	7,528	5,922	13,450	0	0	0
532371	89	CASCADE UTIL INC	7,332	5,770	13,102	48	102	150
532363	89	CLEAR CREEK MUTUAL	2,756	2,185	4,940	0	0	0
532364	89	COLTON TEL CO	929	732	1,661	53	91	144
532449	89	CONTEL OF THE NW- OR	15,738	17,455	33,193	52	866	918
532376	89	HELIX TEL CO.	223	170	392	0	0	0
532377	89	HOME TELEPHONE CO	326	259	585	12	21	33
532456	89	MALHEUR HOME TEL CO	15,423	20,570	35,993	182	660	843
532226	89	MIDVALE TEL EXCH -OR	215	167	383	68	123	191
532383	89	MOLALLA TEL CO.	4,312	3,406	7,718	1,353	2,487	3,840
532385	89	MONROE TELEPHONE CO.	596	474	1,069	0	0	0
532387	89	NEHALEM TEL & TEL	1,240	968	2,209	98	175	273
532388	89	NORTH STATE TEL CO.	413	332	746	6	11	17
532389	89	OREGON TEL CORP	1,502	1,181	2,683	30	51	81
532392	89	PINE TEL SYSTEM INC.	813	631	1,444	0	0	0
532393	89	PIONEER TEL COOP	9,844	7,736	17,580	769	1,367	2,137
532375	89	RTI/HALSEY TEL CO	691	547	1,237	105	193	298
532397	89	SCIO MUTUAL TEL ASSN	1,321	1,051	2,372	55	100	155
532361	89	TEL UTIL OF OREGON	35,542	28,241	63,783	2,848	5,070	7,918
532378	89	TRANS-CASCADES TEL	87	67	154	0	1	1
170170	89	CONTEL OF PA	27,844	40,173	68,017	4,312	1,120	5,432
170177	89	LACKAWAXEN TEL CO	3,207	2,485	5,692	0	0	0
170183	89	MAHANAY & MAHANTONGO	765	593	1,358	28	55	83
170192	89	NORTH PENN TEL CO	5,522	4,387	9,910	310	597	906
170194	89	OSWAYO RIVER TEL CO	1,194	1,578	2,772	0	0	0
170201	89	QUAKER STATE TEL CO	27,928	35,286	63,215	1,414	2,729	4,143
170206	89	SUGAR VALLEY TEL CO	572	452	1,024	41	71	112
633200 +	89	PUERTO RICO COMM	38,586	48,226	86,812	1	5	6
240512	89	BLUFFTON TEL. CO.	5,515	4,239	9,754	26	86	112
240526	89	CONTEL OF SC	12,242	16,786	29,028	238	1,032	1,269
240520	89	FARMERS TEL COOP	48,056	37,581	85,637	0	0	0
240523	89	HARGRAY TEL CO	66,992	51,862	118,854	355	1,180	1,535
240528 +	89	HORRY TEL COOP	29,649	37,052	66,700	3,085	9,903	12,987
240533	89	MCCLELLANVILLE TEL	1,448	1,132	2,579	53	93	146
240539	89	POND BRANCH TEL CO	4,634	3,627	8,262	1,038	2,041	3,079
240551	89	WILLISTON TEL CO	2,833	2,236	5,069	147	256	403
391647	89	CHEYENNE RIVER SIOUX	1,658	1,308	2,966	0	0	0
391643	89	CONTEL OF S. DAKOTA	5,748	6,087	11,835	858	760	1,618
391659	89	GOLDEN WEST TELECOMM	11,341	8,855	20,196	936	1,626	2,562
391666	89	JEFFERSON TEL CO -SD	987	770	1,757	6	11	17
391667	89	KADOKA TELEPHONE CO	473	364	837	36	64	100
391668	89	KENNEBEC TEL CO	227	178	406	21	39	61
391689	89	WEST RIVER COOP	1,561	1,212	2,773	100	179	279
290552	89	ADAMSVILLE TEL CO	4,998	4,000	8,998	684	1,225	1,909
290571	89	MILLINGTON TEL CO	20,759	16,357	37,115	3,855	6,615	10,470
290575	89	TENNESSEE TEL CO	34,250	27,084	61,335	6,672	11,679	18,351
290579	89	TWIN LAKES TEL COOP	13,996	11,029	25,025	1,848	3,268	5,116
442121	89	ALLTEL TEXAS INC	1,327	1,064	2,391	1	3	4
442039	89	BIG BEND TEL CO INC	1,820	1,439	3,259	0	0	0
442040	89	BRAZORIA TEL CO	1,806	1,421	3,228	84	164	248
442041	89	BRAZOS TEL COOP INC	339	265	605	14	27	42
440425	89	CAMERON TEL CO TEXAS	476	382	858	0	0	0
442046	89	CAP ROCK TEL CO INC	827	651	1,478	1	1	2
442052	89	CENTRAL TEXAS CO-OP	1,018	810	1,828	42	82	124
442059	89	COLORADO VALLEY TEL	1,458	1,175	2,633	305	528	833
442066	89	DELL TEL. CO-OP - TX	597	468	1,065	0	0	0
442262	89	ENMR TEL COOP-TX	491	388	878	0	0	0
442068	89	EASTEX TEL COOP INC	9,585	7,533	17,118	334	589	923
442070	89	ETEX TEL COOP INC	4,447	3,518	7,965	0	0	0
442071	89	FIVE AREA TEL CO-OP	922	722	1,644	0	0	0
442072	89	FORT BEND TEL CO	16,633	13,088	29,721	0	0	0
442076	89	GANADO TELEPHONE CO	271	214	485	0	0	0
442083	89	GUADALUPE VALLEY TEL	9,634	7,359	16,994	0	0	0

TABLE 4.5

1989 NON-TIER 1 COST COMPANIES NETWORK USAGE DATA
ACCESS MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
442086	+	89 HILL COUNTRY CO-OP	2,395	2,992	5,387	36	117	153
442093		89 INDUSTRY TEL CO	338	269	607	0	0	0
442097		89 KERRVILLE TEL CO	7,204	5,686	12,890	2,815	5,467	8,282
442103		89 LA WARD TEL EXCHANGE	262	206	468	0	0	0
442101		89 LAKE DALLAS TEL CO	4,173	3,264	7,437	253	503	756
442104		89 LAKE LIVINGSTON TEL	283	222	505	0	0	0
442109		89 LUFKIN-CONROE TEL EX	31,282	24,719	56,001	10,086	19,602	29,688
442112		89 MID-PLAINS RURAL TEL	1,086	859	1,945	0	0	0
442116		89 MUESTER TEL CORP-TX	1,180	928	2,108	51	102	153
442117		89 MUSTANG TEL CO	1,236	978	2,214	181	338	519
442130		89 PEOPLES TEL COOP -TX	2,878	2,277	5,156	148	286	435
442131		89 POKA-LAMBRO TEL COOP	1,249	988	2,238	40	73	113
442134		89 RIVIERA TEL CO INC	335	271	606	0	0	0
442136		89 ROMAIN TELEPHONE CO	131	105	236	30	58	88
442135		89 SOUTHWEST TEXAS TEL	499	623	1,121	0	0	0
442147		89 SUGAR LAND TEL CO	35,884	27,511	63,395	1,079	2,426	3,505
442150		89 TATUM TEL CO	310	242	552	0	0	0
442151		89 TAYLOR TEL CO-OP INC	2,361	1,809	4,170	0	0	0
442153		89 TEXAS-MIDLAND TEL	4,715	3,671	8,386	7	12	19
442155		89 TRI-COUNTY TEL - TX	251	199	449	6	11	17
442156		89 TRINITY VALLEY TEL	2,194	1,796	3,989	202	371	572
442159	+	89 VALLEY TEL CO-OP -TX	750	937	1,687	0	0	0
442163		89 WATERWOOD COMM INC	167	129	296	41	80	121
442168		89 WES-TEX TEL CO-OP	983	778	1,760	0	0	0
442166		89 WEST TEXAS RURAL TEL	1,365	1,077	2,442	46	91	137
442170		89 XIT RURAL TEL CO-OP	1,186	925	2,111	1,158	2,121	3,278
502284		89 BEEHIVE TEL CO - UT	446	359	804	0	0	0
502277		89 CENTRAL UTAH TEL INC	479	371	850	0	0	0
502177		89 CONTEL THE WEST - UT	11,078	12,410	23,488	56	1,719	1,775
502278		89 EMERY COUNTY FARMERS	1,969	1,555	3,523	0	1	1
502280		89 KAMAS-WOODLAND TEL	1,069	862	1,931	6	10	16
502275		89 NAVAJO COMMUN - UT	813	630	1,444	10	19	29
502286		89 SOUTH CENTRAL UTAH	2,714	2,108	4,821	0	0	0
502287		89 UINTAH BASIN TEL	1,697	1,325	3,022	0	0	0
502288		89 UT-WY TELECOM	557	438	995	2	4	6
140070		89 CONTEL OF VERMONT	33,627	38,780	72,407	3,762	6,016	9,778
140058		89 LUDLOW TEL CO	4,184	3,437	7,621	36	64	100
140061		89 NORTHFIELD TEL CO	4,922	3,829	8,751	40	71	111
140062		89 PERKINSVILLE TEL CO	1,265	1,035	2,300	6	10	15
140068		89 TOPSHAM TEL CO	1,156	903	2,059	97	201	298
140069		89 WAITSFIELD/FAYSTON	6,099	4,958	11,057	660	1,212	1,872
643300	+	89 VIRGIN ISLANDS TEL	66,116	82,624	148,740	604	1,940	2,544
190217		89 AMELIA TEL CORP	2,514	1,984	4,499	36	62	97
190249		89 ROANOKE & BOTETOURT	5,301	4,147	9,448	2,091	3,730	5,821
522404		89 ASOTIN TEL - WA	903	714	1,616	20	34	53
522449		89 CONTEL OF THE NW-WA	34,053	38,808	72,861	6,119	3,615	9,734
522410		89 COWICHE TELEPHONE CO	977	770	1,747	0	0	0
522412		89 ELLENSBURG TEL CO	14,456	11,244	25,700	225	759	983
522417		89 HAT ISLAND TEL CO	10	8	18	2	5	7
522419		89 HOOD CANAL TEL CO	515	396	911	6	10	15
522423		89 INLAND TEL CO -WA	1,061	834	1,895	62	107	169
522426		89 KALAMA TEL CO	1,936	1,517	3,453	0	0	0
522427		89 LEWIS RIVER TEL CO	3,202	2,513	5,715	195	376	571
522431		89 MASHELL TEL CO INC	1,336	1,057	2,394	114	199	313
522436		89 PENINSULA TELECOMM	3,935	3,094	7,029	151	272	422
522437		89 PIONEER TEL CO	501	398	900	0	0	0
522442		89 ST JOHN TEL CO	371	294	666	0	0	0
522408		89 TEL UTIL OF WA INC	73,835	58,446	132,281	2,395	4,473	6,868
522446		89 TENINO TELEPHONE CO	1,600	1,264	2,864	0	0	0
522447		89 TOLEDO TELEPHONE CO	1,397	1,111	2,508	0	0	0
522451		89 WESTERN WAKHIAKUM	960	760	1,720	62	109	171
522452		89 WHIDBEY TEL CO.	7,389	5,766	13,155	667	1,180	1,846
522453		89 YELM TELEPHONE CO	4,860	3,754	8,614	485	843	1,328
200278		89 CONTEL OF WV	18,178	23,414	41,593	53	1,115	1,168
200259		89 HARDY TEL CO	2,588	2,049	4,637	18	32	50
200270		89 MOUNTAIN STATE TEL	21,085	16,909	37,994	1,589	2,820	4,409
330841		89 CENCOM OF WISCONSIN	15,785	12,419	28,204	1,298	2,314	3,612

TABLE 4.5

1989 NON-TIER 1 COST COMPANIES NETWORK USAGE DATA
ACCESS MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
330859	89	CENTRAL STATE TEL CO	4,358	3,444	7,802	328	581	909
330895	89	CENTURY OF WISCONSIN	49,670	39,962	89,632	9,588	17,754	27,342
330860	89	CHEQUAMEGON TEL COOP	5,166	4,005	9,171	0	0	0
330870	89	CRANDON TEL CO	1,078	841	1,919	17	30	47
330891	89	HEADWATERS TEL CO	2,403	1,849	4,252	77	146	223
330936	89	INDIANHEAD TEL CO	1,357	1,064	2,421	23	41	64
330908	89	MARQUETTE-ADAMS COOP	2,363	1,769	4,132	179	318	497
330909	89	MIDWAY TEL CO	4,250	3,381	7,630	760	1,328	2,088
330913	89	MONROE COUNTY TEL CO	8,775	6,990	15,764	153	290	443
330916	89	MOUNT HOREB TEL CO	2,019	1,609	3,628	309	547	857
330917	89	MT VERNON TEL CO	5,228	4,082	9,310	0	0	0
330922	89	NORTH-WEST TEL CO	38,426	30,226	68,652	4,021	7,111	11,131
330931	89	PEOPLES TEL CO	3,338	2,641	5,978	73	143	216
330934	89	PLATTEVILLE TEL CO	5,778	4,568	10,346	163	306	468
330937	89	PRICE COUNTY TEL CO	2,344	1,841	4,185	0	0	0
330940	89	RHINELANDER TEL CO	7,395	5,842	13,237	351	665	1,016
330950	89	SOLON SPRINGS TEL CO	13,514	10,519	24,033	103	192	295
330952	89	SE TEL OF WISCONSIN	3,858	3,036	6,893	0	0	0
330956	89	UNIVERSAL OF N WISC	7,453	5,732	13,185	99	185	284
330964	89	URBAN TEL CORP	7,534	5,922	13,456	707	1,266	1,974
330963	89	UTELCO, INC	11,800	9,008	20,807	32	108	140
330974	89	WOOD COUNTY TEL CO	16,652	13,242	29,894	712	1,356	2,067
512291	89	DUBOIS TEL EXCHANGE	2,511	1,915	4,427	38	68	106
512251	89	RANGE TEL COOP - WY	2,239	1,737	3,976	51	88	139
512295	89	SILVER STAR TEL-WY	1,761	1,368	3,128	0	0	0
512299	89	TEL. UTIL. OF WY.	4,961	3,751	8,712	195	360	555
512297	89	UNION TELEPHONE CO	5,605	4,435	10,040	0	0	0
512290	89	UTAH-WYOMING TELECOM	538	422	960	9	16	26
TOTAL 564 NON-TIER 1 COST COMPANIES			4,646,669	4,194,026	8,840,695	321,954	622,710	944,664
TOTAL 116 TIER 1 COMPANIES			114,065,880	142,053,597	256,119,477	1,574,534	5,032,401	6,606,935
TOTAL 680 COST COMPANIES			118,712,549	146,247,623	264,960,172	1,896,488	5,655,111	7,551,599
TOTAL AVERAGE SCHEDULE COMPANIES			2,433,567	1,938,546	4,372,113	156,673	293,958	450,631
TOTAL INDUSTRY			121,146,116	148,186,169	269,332,285	2,053,161	5,949,069	8,002,230

DETAILS MAY NOT ADD TO TOTALS DUE TO ROUNDING

* - COMPANIES FOR WHICH NECA COMPUTED THE DATA

+ - COMPANIES FOR WHICH THE DATA DID NOT MATERIALLY CHANGE FROM THEIR 1988 DATA

TABLE 4.6

1989 NON-TIER 1 COST COMPANIES NETWORK USAGE DATA
MESSAGES & SLU MINUTES (IN THOUSANDS) & LOOPS

FCODE	YR CARRIER	NO. LOOPS	ST MSGS	IS MSGS	LOC SLU	ST SLU	IS SLU	TOT SLU
250302	89 ALLTEL ALABAMA	16,930	4,861	1,596	208,971	46,113	26,527	281,611
250284	89 BUTLER TEL CO	3,611	692	681	60,000	7,332	9,720	77,051
250281	89 CONTEL OF THE SOUTH	79,767	19,792	10,163	1,121,899	192,084	126,360	1,440,343
250297	89 GROVE HILL TEL CORP	1,771	686	161	19,122	7,305	2,908	29,335
250298	89 GULF TEL CO - AL	25,100	4,646	5,586	193,838	33,019	54,059	280,916
250300	89 HOPPER TEL. CO INC	2,693	992	150	25,470	9,678	2,865	38,014
250304	89 MILLRY TEL CO	4,894	1,219	682	55,001	11,831	9,327	76,158
250306	89 MONROEVILLE TEL CO	10,406	1,968	1,250	149,601	23,562	26,493	199,656
250314	89 PEOPLES TEL CO	10,486	2,057	1,384	137,075	19,856	18,720	175,652
250316	89 RAGLAND TEL CO	1,014	354	62	9,893	3,496	1,253	14,642
250318	89 SOUTHLAND TEL CO-AL	9,016	2,087	1,091	158,784	23,736	21,524	204,044
613000	89 ANCHORAGE TEL UTIL	121,847	14,148	15,368	1,837,019	165,759	360,892	2,363,669
613001	89 ARCTIC SLOPE TEL	1,371	1,135	679	8,608	13,079	10,338	32,025
613003	89 BRISTOL BAY TEL COOP	1,155	342	235	6,294	3,765	3,458	13,516
613004	89 BUSH-TELL INC.	572	333	35	3,435	2,830	593	6,857
613006	89 COPPER VALLEY TEL	3,490	1,734	1,037	41,356	18,241	18,445	78,042
613007	89 CORDOVA TEL COOP	1,444	421	344	12,607	4,486	6,251	23,344
613008	89 FAIRBANKS MUNICIPAL	24,666	3,227	3,420	353,247	40,627	75,895	469,768
613010	89 GLACIER STATE TEL CO	29,719	6,157	4,612	313,664	63,012	93,937	470,612
613009	89 GTE ALASKA INC.	12,395	3,765	2,138	91,125	38,279	31,208	160,612
613011	89 INTERIOR TEL CO INC	2,541	915	996	12,801	9,281	14,930	37,012
613012	89 JUNEAU & DOUGLAS TEL	15,589	2,193	2,310	172,618	30,888	54,515	258,021
613013	89 KETCHIKAN PUBLIC UT	7,232	994	1,962	77,960	10,834	27,742	116,536
613015	89 MATANUSKA TEL ASSOC	27,701	5,944	3,993	274,744	64,712	88,983	428,439
613016	89 MUKLUK TEL CO INC	671	307	50	2,986	3,000	909	6,896
613018	89 NUSHAGAK TEL COOP	1,405	475	194	12,586	4,947	3,605	21,138
613019	89 OTZ TEL COOPERATIVE	1,865	991	258	13,538	10,433	4,269	28,240
613020	89 SITKA TELEPHONE CO	8,243	2,690	1,870	54,855	26,753	29,263	110,871
613022	89 TEL UTIL OF ALASKA	2,333	237	462	24,799	2,191	12,135	39,126
613023	89 UNITED UTILITIES INC	3,306	1,793	230	22,363	17,329	4,580	44,273
613025	89 YUKON TEL CO INC	316	188	43	1,542	1,892	887	4,322
452171	89 ARIZONA TELEPHONE CO	1,973	673	216	3,636	5,937	3,685	13,258
452172	89 CITIZENS UTILITIES	47,617	4,796	13,364	292,843	42,400	178,989	514,232
452302	89 CONTEL CALIF - AZ	5,290	710	1,589	33,598	11,213	18,421	63,232
452177	89 CONTEL OF WEST-AZ	23,738	5,938	3,350	154,068	62,328	57,804	274,200
452275	89 NAVAJO COMMUN-AZ	8,176	2,986	2,445	47,548	29,459	30,065	107,072
452173	89 PAPAGO TRIBAL UTIL.	1,700	386	64	7,181	3,669	1,479	12,329
452175	89 UNIVERSAL TEL OF SW	1,271	289	117	7,376	2,802	1,857	12,035
452176	89 VALLEY TEL COOP-AZ	1,901	665	379	9,904	7,461	7,073	24,438
401691	89 ALLTEL ARKANSAS INC	59,100	19,306	7,143	631,218	184,833	136,186	952,237
401692	89 ARKANSAS TEL CO	5,772	1,135	622	56,562	8,770	11,014	76,347
401697	89 CENTRAL ARKANSAS TEL	2,141	667	148	21,331	6,206	3,123	30,660
401705	89 CENTURY OF ARKANSAS	11,444	2,494	1,525	108,263	24,225	28,016	160,505
401698	89 CLEVELAND COUNTY TEL	2,383	847	138	18,891	8,274	3,074	30,239
401730	89 CONTEL OF ARKANSAS	64,842	21,445	8,345	745,969	208,017	151,835	1,105,821
401699	89 DECATUR TEL CO INC	929	308	115	4,236	2,925	1,886	9,048
401709	89 MADISON COUNTY TEL	1,988	735	264	20,645	6,157	4,949	31,750
401711	89 MOUNTAIN HOME TEL	14,442	1,906	2,022	85,047	22,425	39,009	146,480
401713	89 NORTH ARKANSAS TEL	3,827	1,255	579	26,022	10,007	11,635	47,664
401717	89 PERCO TELEPHONE CO	2,191	976	199	18,003	7,089	3,734	28,826
401720	89 REDFIELD TEL CO	1,321	618	106	8,149	5,527	2,011	15,687
401702	89 SOUTH ARKANSAS TEL	3,279	944	209	32,264	8,714	4,688	45,666
401726	89 TRI-COUNTY TEL CO-AR	4,656	1,055	379	47,962	9,739	8,980	66,681
401727	89 UNION TEL CO INC	872	240	178	7,330	2,400	2,580	12,310
401729	89 WALNUT HILL TEL CO	4,428	1,077	635	36,246	10,207	8,930	55,384
401733	89 YELCOT TEL CO INC	2,545	643	289	24,971	5,787	5,587	36,345
401734	89 YELL COUNTY TEL CO	4,042	1,220	259	35,629	10,587	5,098	51,314
542304	89 C P NATIONAL CORP-CA	11,508	4,425	1,205	69,809	41,130	14,078	125,017
542301	89 CALAVERAS TEL CO	1,867	1,005	128	6,965	9,592	2,204	18,761
542311	89 CALIF-OREGON TEL CO	2,164	479	657	10,785	5,331	5,955	22,070
542308	89 CITIZENS UTIL OF CA	61,088	20,126	5,612	626,112	224,291	84,730	935,133
542313	89 DUCOR TELEPHONE CO	591	317	21	2,316	3,119	535	5,971
542315	89 EVANS TEL CO.	8,007	5,073	877	52,802	44,198	9,526	106,526
542318	89 FORESTHILL TEL CO.	1,997	885	65	6,954	8,846	1,841	17,641
542321	89 HAPPY VALLEY TEL CO	2,553	623	129	26,633	9,652	2,592	38,877
542322	89 HORNITOS TEL CO	447	266	22	571	2,453	359	3,383
542324	89 KERMAN TELEPHONE CO	4,170	1,187	209	49,073	16,697	3,204	68,974

TABLE 4.6

 1989 NON-TIER 1 COST COMPANIES NETWORK USAGE DATA
 MESSAGES & SLU MINUTES (IN THOUSANDS) & LOOPS

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSGS	LOC SLU	ST SLU	IS SLU	TOT SLU
542346	89	PINNACLES TEL CO	134	256	42	237	2,131	434	2,801
542332	89	THE PONDEROSA TEL CO	5,823	2,647	322	29,348	25,296	6,520	61,164
542334	89	ROSEVILLE TEL CO	68,769	23,920	6,132	806,906	202,599	78,558	1,088,063
542338	89	SIERRA TELEPHONE CO	12,512	5,073	760	88,391	51,585	13,776	153,753
542339	89	THE SISKIYOU TEL CO	3,337	1,490	475	16,867	16,412	5,773	39,051
542342	89	TUOLUMNE TEL CO	4,350	2,193	206	20,904	20,515	4,202	45,621
542343	89	THE VOLCANO TEL CO	7,742	2,797	404	32,855	30,733	7,628	71,215
542323	89	WINTERHAVEN TEL. CO.	1,275	163	762	3,829	1,491	5,054	10,374
462192	89	BIG SANDY TELCOMM	653	241	40	3,539	2,415	1,188	7,141
462181	89	BIJOU TEL COOP ASSOC	958	405	88	4,580	3,798	1,884	10,262
462182	89	BLANCA TEL CO	519	169	100	1,088	758	637	2,483
462204	89	COLUMBINE TEL CO	654	206	89	1,912	1,546	1,272	4,730
462184	89	DELTA COUNTY TEL CO	6,025	822	591	56,451	10,262	13,926	80,639
462185	89	EAGLE TELECOMMUN INC	5,758	2,271	1,172	28,757	15,314	17,423	61,495
462186	89	EASTERN SLOPE RURAL	3,828	1,434	391	19,643	13,724	8,227	41,593
462187	89	EL PASO COUNTY TEL	1,917	889	190	12,406	9,050	4,610	26,066
462188	89	FARMERS TEL CO - CO	292	131	40	1,304	1,005	518	2,827
462190	89	HAXTUN TEL CO	1,236	422	118	6,465	4,508	2,283	13,255
462193	89	NUCLA-NATURITA TEL	1,055	228	99	6,007	2,377	1,995	10,378
462194	89	NUNN TEL CO	270	102	34	711	840	565	2,116
462196	89	PEETZ COOP TEL CO	184	51	34	1,363	633	571	2,567
462199	89	PLAINS COOP TEL ASSN	1,353	526	159	8,499	5,221	2,735	16,455
462203	89	RYE TELEPHONE CO	1,267	420	129	8,107	4,120	2,764	14,991
462207	89	STRASBURG TEL CO	868	363	77	3,749	3,503	1,860	9,112
461835	89	SUNFLOWER TEL - CO	295	112	46	1,320	948	923	3,191
462208	89	UNIVERSAL TEL CO -CO	3,927	619	829	28,675	6,568	14,490	49,734
462209	89	WIGGINS TEL ASSOC	1,103	497	93	5,546	4,655	1,979	12,180
210336	89	ALLTEL FLORIDA INC.	49,044	13,723	6,049	564,669	141,374	95,985	802,029
210291	89	FLORALA TEL CO	3,153	226	130	18,030	3,017	2,231	23,278
210329	89	GULF TEL CO	7,362	1,706	922	90,304	21,819	17,086	129,209
210331	89	INDIANTOWN SYSTEM	2,273	1,143	242	12,431	10,764	4,790	27,985
210335	89	NORTHEAST FLORIDA	5,195	1,821	473	53,595	19,232	8,923	81,751
210338	89	QUINCY TEL CO-FL DIV	8,693	2,558	1,168	121,698	27,785	18,845	168,328
210339	89	ST JOSEPH TEL & TEL	21,592	5,226	2,560	178,152	51,373	39,518	269,043
210318	89	SOUTHLAND TEL-FL	2,934	372	401	46,974	4,736	6,746	58,455
210330	89	VISTA-UNITED TELCOM	12,257	2,108	3,373	113,535	26,831	62,835	203,202
220344	89	ALMA TEL CO	5,268	1,400	410	61,254	13,374	6,520	81,149
220347	89	BRANTLEY TEL CO	3,187	999	275	33,338	9,116	4,312	46,766
220351	89	CAMDEN TEL & TEL CO	10,942	1,604	3,276	114,409	17,041	44,322	175,771
220355	89	CITIZENS TEL CO - GA	3,796	1,174	285	46,411	10,889	4,678	61,977
220356	89	COASTAL UTILITIES	20,784	5,275	5,112	191,754	56,372	98,501	346,627
220281	89	CONTEL OF SOUTH - GA	60,297	17,019	6,536	676,711	173,142	96,656	946,508
220358	89	DARIEN TEL CO	3,563	1,004	354	33,485	10,186	4,912	48,582
220360	89	ELLIJAY TEL CO	6,767	1,815	588	68,714	16,702	8,599	94,015
220371	89	INTERSTATE TEL CO	9,398	1,426	1,634	153,350	18,497	25,077	196,924
220377	89	PINELAND TEL COOP	8,664	2,238	517	94,921	23,103	10,105	128,129
220379	89	PLANT TEL. CO.	7,301	2,329	604	75,952	21,497	10,316	107,765
220381	89	PUBLIC SERVICE TEL	7,605	2,456	508	91,084	24,577	10,575	126,236
220338	89	QUINCY TEL CO-GA DIV	569	74	149	10,354	980	2,119	13,452
220386	89	STANDARD TEL CO	38,312	12,543	4,893	348,816	126,332	73,954	549,103
220392	89	WAVERLY HALL TEL CO	971	328	81	5,913	3,583	1,467	10,964
220394	89	WILKES TEL & ELC CO	8,898	1,913	948	117,521	22,372	17,414	157,307
472213	89	ALBION TEL CO INC	879	286	143	7,436	2,540	2,092	12,067
472215	89	CAMBRIDGE TEL CO	768	214	94	4,913	2,548	1,804	9,266
472225	89	CENTURY TEL OF IDAHO	2,522	364	588	24,095	4,083	9,491	37,669
472177	89	CONTEL OF WEST-ID	12,996	3,814	1,692	75,370	38,766	30,949	145,085
472218	89	CUSTER TEL COOP	1,417	264	186	10,932	3,033	3,530	17,495
472223	89	GEM STATE UTIL-ID	901	382	145	7,288	3,687	2,500	13,474
472423	89	INLAND TEL-ID	243	84	32	772	804	561	2,137
472226	89	MIDVALE TEL EXCH INC	259	118	34	1,660	1,095	469	3,224
472231	89	PROJECT MUTUAL TEL	6,206	962	849	84,687	9,623	11,665	105,975
472232	89	ROCKLAND TEL CO INC	339	126	40	2,424	1,092	632	4,148
472233	89	RURAL TEL CO - ID	222	68	21	363	721	368	1,452
472295	89	SILVER STAR TEL- ID	295	88	45	1,570	1,003	856	3,429
472234	89	TROY TELEPHONE CO	672	236	108	3,237	2,150	1,687	7,074
341000	89	ALLTEL ILLINOIS INC.	39,245	11,128	5,036	292,600	120,832	86,759	500,190
341036	89	CONTEL OF ILLINOIS	155,341	57,348	19,713	1,184,677	630,175	283,441	2,098,292

TABLE 4.6

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 MESSAGES & SLU MINUTES (IN THOUSANDS) & LOOPS

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSGS	LOC SLU	ST SLU	IS SLU	TOT SLU
341004	89	EL PASO TEL CO	1,505	692	184	10,266	6,857	2,445	19,568
341023	89	GRIDLEY TEL CO	1,089	576	125	5,070	5,449	1,378	11,898
341037	89	IL CONSOLIDATED TEL	72,772	26,713	8,927	679,333	254,348	125,798	1,059,479
341038	89	INLAND TEL CO	4,205	2,104	239	19,674	21,484	5,006	46,164
341045	89	LEAF RIVER VLY TEL	531	249	50	2,398	2,367	978	5,743
341055	89	MIDLAND TEL CO	3,898	1,739	254	21,880	18,479	4,119	44,478
341060	89	MOULTRIE INDEPENDENT	652	266	27	4,565	2,569	716	7,850
320753	89	CLAY CTY RURAL COOP	8,167	2,656	681	83,076	27,064	9,426	119,565
320776	89	COMM CORP OF INDIANA	7,578	1,367	1,524	90,341	16,785	20,937	128,063
320779	89	CONTEL OF INDIANA	138,409	32,050	19,534	1,626,936	317,000	229,518	2,173,455
320797	89	NEW PARIS TEL INC	1,555	424	178	14,677	4,728	3,232	22,637
320800	89	NORTHWESTERN INDIANA	8,348	3,192	1,343	69,956	30,337	21,426	121,719
351346	89	ACE TEL ASSN-IA	3,837	949	454	29,287	9,818	6,530	45,635
351105	89	AYRSHIRE FARMERS MUT	355	189	33	1,403	1,470	582	3,455
351110	89	BERNARD TEL CO INC	460	222	38	3,303	2,003	731	6,037
351127	89	CENTEL OF IOWA	46,979	12,349	6,661	393,761	116,814	98,354	608,930
351207	89	CONTEL OF IOWA, INC.	69,988	21,081	8,292	538,472	214,610	128,649	881,730
351888	89	GRAND RIVER MUT-IA	5,631	1,523	1,115	48,472	13,986	11,994	74,452
351229	89	LOST NATION-ELWOOD	608	255	42	3,410	2,148	850	6,408
351316	89	UNITED FARMERS TEL	527	250	490	3,062	1,933	1,831	6,826
351327	89	WEBB-DICKENS TEL	438	236	44	1,501	2,129	829	4,458
411741	89	ASSARIA TEL EXCHANGE	460	281	49	2,322	2,489	1,033	5,844
411746	89	BLUE VALLEY TEL CO	2,686	1,025	220	13,033	9,192	3,295	25,519
411818	89	CRAW-KAN TEL COOP	11,425	4,132	1,259	73,372	37,631	21,368	132,371
411761	89	CUNNINGHAM TEL CO	1,516	487	94	6,971	4,996	2,063	14,031
411764	89	ELKHART TEL CO INC	1,414	257	317	8,211	2,407	4,300	14,919
411781	89	H & B COMMUNICATIONS	936	378	83	4,008	3,110	1,394	8,512
411782	89	HOME TEL CO	1,300	625	93	6,940	5,593	1,721	14,254
411785	89	J. B. N. TEL CO INC	2,421	818	150	11,771	8,714	2,694	23,179
411788	89	KANOKLA TEL ASSN-KS	2,092	607	213	12,010	5,780	3,562	21,352
411801	89	MADISON TEL CO INC	727	206	45	4,441	1,758	992	7,191
411807	89	MOKAN DIAL INC-KS	2,025	886	304	12,725	8,056	4,367	25,149
411808	89	MOUNDRIDGE TEL CO	2,097	801	182	14,216	6,695	3,498	24,408
411814	89	PEOPLES MUTUAL TEL	1,089	317	167	6,133	2,714	1,940	10,786
411817	89	PIONEER TEL ASSN INC	11,009	2,899	1,592	87,829	26,196	25,189	139,213
411826	89	RURAL TEL SERVICE CO	6,513	2,256	432	38,904	22,533	9,151	70,588
411827	89	S & T TEL COOP ASSN	1,595	609	158	7,105	5,899	2,944	15,948
411831	89	S. CENTRAL TEL - KS	1,039	426	77	3,837	3,937	1,455	9,229
411835	89	SUNFLOWER TEL CO	3,842	998	464	29,519	10,073	8,579	48,171
412030	89	TOTAH TELEPHONE CO	1,322	485	162	4,917	4,542	2,818	12,278
411840	89	TWIN VALLEY TEL INC	2,179	765	124	12,733	5,798	2,343	20,874
411841	89	UNITED TEL ASSN	4,781	1,983	501	26,107	17,183	8,551	51,841
411317	*	UTC-IA DBA UTC-E. KS	45,129	340	154	12,794	3,423	2,604	14,130
411957	*	UTC-MO DBA UTC-SE KS	5,181	340	154	12,794	3,423	2,604	14,130
411847	89	THE WHEAT STATE TEL	1,933	911	168	10,670	8,166	2,998	21,834
411849	89	WILSON TEL CO INC	2,228	711	131	11,490	7,803	3,305	22,598
411852	89	ZENDA TEL COMPANY	220	104	10	873	1,067	205	2,145
260410	89	CONTEL OF KENTUCKY	62,146	13,730	7,733	823,001	139,044	131,572	1,093,616
270431	89	CADDOAN TEL CO	7,869	1,860	1,367	73,750	19,962	24,737	118,449
270425	89	CAMERON TEL CO - LA	5,585	1,872	837	56,336	22,340	18,366	97,042
270423	89	CENTRAL LOUISIANA	13,015	3,757	1,300	152,441	38,832	32,076	223,349
270440	89	CENTURY TEL CO	1,555	690	163	21,868	7,459	4,551	33,878
270436	89	CENTURY NORTH LA	5,313	1,821	655	53,967	18,042	14,182	86,192
270424	89	COASTAL TEL & ELECTR	9,571	3,277	696	96,651	30,640	18,101	145,392
270429	89	EAST ASCENSION TEL	21,388	7,603	2,847	316,241	62,650	40,850	419,741
270430	89	ELIZABETH TEL CO	2,248	484	132	25,601	5,188	3,938	34,727
270434	89	EVANGELINE TEL CO	26,025	7,638	2,134	308,705	74,638	49,987	433,330
270433	89	LAFOURCHE TEL CO	11,349	3,332	1,300	119,469	25,307	11,508	156,284
270442	89	LOUISIANA WESTERN	3,109	1,061	385	32,872	10,899	8,330	52,101
270435	89	NORTHEAST LOUISIANA	790	346	83	10,265	4,015	1,985	16,265
270438	89	RESERVE TEL CO	4,208	1,136	217	17,895	10,293	5,336	33,524
100004	89	CHINA TEL CORP	2,511	1,188	207	9,586	9,454	4,178	23,218
100014	89	CONTEL OF MAINE	38,755	12,868	4,945	223,015	109,955	72,318	405,288
100010	89	HAMPDEN TEL CO	2,261	676	208	22,176	7,052	3,654	32,882
100011	89	HARTLAND & ST ALBANS	2,681	956	218	15,586	8,428	4,056	28,071
100003	89	LINCOLNVILLE TEL CO	1,271	332	135	7,349	2,825	2,880	13,054
100024	89	SOMERSET TEL CO	8,811	2,969	869	40,325	26,711	13,398	80,434

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FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSGS	LOC SLU	ST SLU	IS SLU	TOT SLU
100025	89	STANDISH TEL CO	5,360	2,459	607	22,308	21,187	12,361	55,856
100027	89	UNION RIVER TEL CO	970	246	44	3,259	2,120	1,040	6,419
100029	89	UNITY TEL CO., INC.	3,399	1,421	328	18,975	10,855	5,520	35,350
100031	89	WARREN TEL CO	1,279	787	154	5,074	6,790	2,128	13,993
100034	89	WEST PENOBSCOT TEL	1,773	808	128	8,036	7,122	2,209	17,368
310704	89	ACE TEL OF MICHIGAN	3,613	1,524	131	14,134	13,906	2,391	30,431
310681	89	ALLTEL MICHIGAN INC.	39,297	16,191	4,926	263,866	169,328	72,922	506,117
310679	89	BLOOMINGDALE TEL CO	1,533	855	115	5,702	7,673	2,168	15,543
310682	89	C, C & S TELCO - MI	17,891	5,392	1,513	121,039	56,496	23,127	200,662
310683	89	CARR TEL CO	1,375	370	47	4,040	3,894	1,129	9,062
310671	*	CENTURY TEL. MIDWEST	20,630	781	354	29,365	7,857	5,978	36,154
310702	89	CENTURY OF MICHIGAN	41,408	15,797	2,894	233,510	159,945	47,222	440,677
310685	89	CHATHAM TEL CO - MI	2,151	621	142	17,747	6,075	2,723	26,545
310680	89	CHIPPEWA COUNTY TEL	852	325	51	3,336	2,797	1,070	7,203
310713	89	HIAWATHA TEL CO	3,978	1,046	321	22,128	11,350	5,783	39,262
310711	89	MIDWAY TEL CO	773	193	49	2,802	1,808	913	5,523
310714	89	OGDEN TEL CO	406	103	68	3,034	1,155	849	5,037
310717	89	ONTONAGON COUNTY TEL	3,803	686	377	30,214	7,747	6,237	44,197
310721	89	PIGEON TEL CO	2,590	1,288	170	10,470	11,036	2,126	23,632
310728	89	SPRINGPORT TEL CO	1,585	815	62	6,965	7,508	1,201	15,675
310732	89	UPPER PENINSULA TEL	3,737	1,403	411	18,965	13,800	6,958	39,713
310737	89	WINN TEL CO	541	427	36	1,832	3,791	1,323	6,947
310738	89	WOLVERINE TEL CO	7,358	3,232	351	66,424	31,997	6,665	105,086
361346	89	ACE TEL ASSN-MN	9,006	1,843	1,356	67,550	20,475	30,553	118,578
361374	89	ARROWHEAD COMM CORP	613	213	47	2,029	1,905	682	4,615
361350	89	ARVIG TEL CO	9,091	1,515	441	43,621	17,514	13,881	75,015
361370	89	CLARA CITY TEL EXCH	1,512	441	113	8,568	4,240	1,920	14,728
361140	89	CONTEL OF MINNESOTA	95,008	24,589	5,786	761,759	304,176	150,064	1,215,999
361385	89	EAST OTTER TAIL TEL	13,245	2,592	1,094	104,060	44,648	27,397	176,105
361395	89	GARDEN VALLEY TEL CO	12,961	3,788	926	96,386	40,121	16,283	152,789
361410	89	JOHNSON TEL CO	1,398	269	61	5,846	2,620	1,524	9,990
361414	89	LAKEDALE TEL CO	9,562	3,895	530	57,222	38,855	7,817	103,894
361433	89	MID STATE TEL CO	5,576	1,292	343	40,716	13,281	5,253	59,251
361442	89	NEW ULM TELECOM, INC	8,333	2,325	826	72,814	21,188	11,888	105,890
361451	89	PAUL BUNYAN RURAL	5,219	1,131	326	43,632	12,701	7,523	63,856
361483	89	SLEEPY EYE TEL CO	5,248	1,662	345	36,519	16,534	5,617	58,671
361491	89	TWIN VALLEY-ULEN TEL	2,789	729	287	20,644	6,922	4,502	32,069
280453	89	ALLTEL MISSISSIPPI	7,938	1,722	647	140,005	16,602	12,012	168,619
280446	89	BAY SPRINGS TEL CO	8,648	2,094	586	122,634	20,518	11,346	154,498
280452	89	DELTA TEL CO	3,546	674	270	38,477	5,679	5,091	49,247
280454	89	FRANKLIN TEL CO - MS	6,148	1,704	476	66,139	15,325	9,755	91,219
280456	*	GEORGETOWN TEL CO	246	781	354	29,365	7,857	5,978	36,154
280458	89	HOME TEL CO-OLIVE BR	8,152	894	2,476	101,808	11,759	43,315	156,882
280459	89	HUGHES TEL CO	5,228	675	394	84,888	6,278	8,535	99,701
280461	89	SOUTHEAST MS TEL CO	3,568	841	460	36,806	7,386	6,931	51,124
421885	89	ALLTEL MISSOURI	20,795	7,362	1,964	190,972	72,529	43,120	306,621
421865	89	CITIZENS TEL CO - MO	3,230	1,153	262	21,509	11,046	4,207	36,762
421922	89	CONTEL OF MISSOURI	146,262	64,981	17,102	1,199,318	546,010	363,370	2,108,697
421846	89	CONTINENTAL SYS. -MO	37,992	11,539	4,493	327,820	105,888	72,382	506,089
421873	89	EASTERN MISSOURI TEL	2,537	1,038	171	14,752	10,102	3,541	28,395
421882	89	FIDELITY TEL CO	10,210	3,406	793	69,128	33,225	13,089	115,441
421886	89	GOODMAN TEL CO	1,450	571	181	5,954	4,593	3,110	13,657
421888	89	GRAND RIVER MUT-MO	12,566	3,110	1,251	103,663	30,067	18,583	152,313
421929	89	HOLWAY TEL CO	561	196	34	5,206	1,709	539	7,454
421901	89	KINGDOM TELEPHONE CO	2,612	1,327	333	18,806	12,809	5,782	37,398
421908	89	LE-RU TELEPHONE CO	989	297	168	5,274	2,640	2,611	10,526
421904	89	MISSOURI TEL CO	15,733	3,778	1,456	131,046	35,316	26,826	193,188
421807	89	MOKAN DIAL INC-MO	607	286	79	3,435	2,922	1,107	7,464
421931	89	NE MISSOURI RURAL	3,408	927	294	26,194	9,624	6,070	41,888
421934	89	ORCHARD FARM TEL CO	711	541	47	2,008	4,612	983	7,603
421951	89	STOUTLAND TEL CO	914	345	51	6,780	3,102	1,283	11,166
482235	89	BLACKFOOT TEL COOP	4,802	2,084	549	24,280	20,130	10,109	54,519
482241	89	HOT SPRINGS TEL CO	400	125	31	2,335	1,389	704	4,428
482242	89	INTERBEL TEL COOP	938	167	117	7,139	1,812	2,652	11,603
482244	89	LINCOLN TEL CO INC	722	200	70	2,964	2,112	1,176	6,252
482246	89	MID-RIVERS TEL COOP	5,753	1,738	552	47,785	20,212	9,676	77,673
482247	89	NEMONT TEL COOP-MT	2,271	801	279	9,519	8,520	4,964	23,002

TABLE 4.6

 1989 NON-TIER 1 COST COMPANIES NETWORK USAGE DATA
 MESSAGES & SLU MINUTES (IN THOUSANDS) & LOOPS

F CODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSGS	LOC SLU	ST SLU	IS SLU	TOT SLU
482248	89	NORTHERN TEL COOP	1,254	586	210	7,424	5,910	3,593	16,927
482249	89	NW TEL SYSTEMS, INC.	29,760	10,003	6,398	271,645	83,118	101,558	456,322
482250	89	PROJECT TEL CO	2,588	886	294	13,228	9,198	6,387	28,813
482251	89	RANGE TEL COOP-MT	2,712	896	425	18,918	9,306	6,471	34,695
482254	89	SOUTHERN MONTANA TEL	658	238	72	2,736	2,558	1,578	6,872
482255	89	3-RIVERS TEL COOP	7,898	2,708	917	50,570	26,966	17,525	95,061
482257	89	TRIANGLE TEL COOP	8,161	2,679	723	58,587	30,454	12,762	101,804
482258	89	VALLEY RURAL TEL	754	226	57	3,731	2,445	1,026	7,202
371516	89	ARAPAHOE TEL CO	1,019	277	84	6,071	2,748	1,452	10,272
371517	89	ARLINGTON TEL CO	926	381	108	6,067	3,717	1,508	11,292
372455	89	BENKELMAN TEL CO	1,173	177	136	7,948	1,681	2,024	11,653
371524	89	BLAIR TEL CO	5,320	1,687	981	48,295	15,030	12,550	75,876
371526	89	CAMBRIDGE TEL CO -NE	1,150	286	111	6,833	2,867	1,793	11,493
371531	89	CLARKS TEL CO	956	340	67	5,126	2,905	1,281	9,311
371534	89	COZAD TEL CO	2,638	710	301	15,610	6,990	4,399	26,999
371536	89	CURTIS TEL CO	725	189	56	4,961	2,170	1,091	8,222
371537	89	DALTON TEL CO, INC	1,250	396	156	7,352	3,942	2,622	13,917
371540	89	DILLER TEL CO	873	305	76	4,286	2,598	1,080	7,965
371542	89	EASTERN NEBRASKA TEL	2,376	756	320	15,659	7,040	4,730	27,429
371577	89	GREAT PLAINS COMMUN	24,965	7,105	2,564	168,969	67,306	40,287	276,562
371557	89	HARTMAN TEL EXCH INC	442	96	92	2,342	999	1,283	4,624
371558	89	HEMINGFORD COOP TEL	845	120	82	9,555	1,325	1,668	12,548
371567	89	KEYSTONE-ARTHUR TEL	574	119	40	899	925	770	2,594
371574	89	NEBRASKA CENTRAL TEL	5,924	1,488	407	43,941	16,163	8,953	69,058
371580	89	PETERSBURG TEL CO	422	164	22	2,532	1,481	415	4,429
371586	89	ROCK COUNTY TEL CO	1,002	239	80	8,254	3,243	1,620	13,117
371591	89	SE NEBRASKA TEL CO	3,713	483	646	33,705	5,707	11,912	51,324
371592	89	STANTON TEL CO, INC	1,038	340	702	7,186	3,081	2,385	12,652
371525	89	THREE RIVER TELCO	1,221	301	140	7,229	3,110	2,321	12,660
371597	89	WAUNETA TEL CO	621	182	70	4,212	1,842	1,167	7,221
552284	89	BEEHIVE TEL CO - NV	31	60	37	700	363	441	1,504
552304	89	CP NATIONAL-NV	12,708	2,326	4,648	99,079	19,291	56,881	175,251
552349	89	CHURCHILL COUNTY TEL	8,471	1,499	1,894	71,220	12,476	29,608	113,305
552302	89	CONTEL OF CALIF-NV	18,664	3,827	5,751	117,397	36,243	96,515	250,155
552223	89	GEM STATE UTIL-NV	332	68	103	2,059	704	1,309	4,072
552351	89	LINCOLN CTY TEL SYS	1,652	439	271	7,634	4,655	4,236	16,525
552353	89	MOAPA VALLEY TEL CO.	2,187	463	398	19,174	4,320	5,717	29,211
552354	89	NEVADA TEL-TELEGRAPH	2,556	610	725	15,640	4,814	10,819	31,273
552356	89	RIO VIRGIN TEL CO	1,199	236	668	6,364	1,770	5,886	14,020
552233	89	RURAL TEL CO - NV	338	212	150	875	1,738	1,998	4,611
120038	89	BRETTON WOODS TEL CO	355	91	116	559	488	907	1,955
120040	89	CHICHESTER TEL CO	1,150	367	136	6,382	3,595	2,004	11,981
120041	89	CONTEL OF NH	9,554	2,847	2,286	53,185	21,984	30,529	105,698
120039	89	GRANITE STATE TEL	6,930	1,896	1,378	36,043	17,781	21,271	75,095
120045	89	KEARSARGE TEL CO	5,408	2,242	1,301	23,115	18,937	17,566	59,617
120046	89	MERIDEN TEL CO	481	119	147	1,700	1,028	1,969	4,698
120047	89	MERRIMAK COUNTY TEL	5,354	1,995	1,111	52,441	22,060	21,289	95,790
120049	89	UNION TEL CO	5,479	1,456	800	23,285	12,613	13,277	49,175
120050	89	WILTON TEL CO - NH	2,283	774	847	14,893	7,067	8,457	30,418
160135	89	WARWICK VALLEY-NJ	7,035	4,316	1,127	36,271	51,178	20,572	108,021
492259	89	BACA VALLEY TEL CO	587	137	90	3,110	1,282	1,455	5,847
492177	89	CONTEL OF WEST - NM	27,535	7,346	3,700	177,584	71,514	61,254	310,353
492066	89	DELL TEL CO-OP - NM	285	47	43	985	609	763	2,357
492262	89	ENMR TEL COOP INC-NM	9,214	1,928	2,769	67,457	19,410	35,197	122,064
492263	89	LA JICARITA RURAL	1,357	340	104	16,801	3,540	2,162	22,503
492264	89	LEACO RURAL TEL COOP	760	320	183	4,591	2,513	2,375	9,479
492275	89	NAVAJO COMMUN - NM	3,155	1,171	805	10,252	9,079	11,227	30,558
492270	89	PENASCO VALLEY TEL	1,967	552	213	10,041	5,324	4,184	19,550
492272	89	ROOSEVELT CNTY RURAL	1,463	317	201	13,477	3,370	3,789	20,637
492274	89	UNIVERSAL TEL OF SW	3,585	1,036	375	20,644	8,943	7,474	37,061
492176	89	VALLEY TEL COOP - NM	1,253	270	273	7,483	2,498	4,462	14,443
492268	89	WESTERN NEW MEXICO	4,159	1,132	939	27,243	10,410	12,176	49,829
150106	89	ALLTEL NY-FULTON	38,406	6,835	4,259	546,559	85,050	80,817	712,426
150109	89	ALLTEL NY-JAMESTOWN	40,313	7,032	7,451	512,249	74,058	104,897	691,204
150113	89	ALLTEL NY-RED JACKET	2,375	881	147	19,963	8,811	2,971	31,745
150072	89	AU SABLE VALLEY TEL	5,511	2,001	535	28,097	19,339	9,839	57,275
150077	89	CHAMPLAIN TEL CO	4,236	1,424	1,485	34,441	9,986	12,021	56,449

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FCODE	YR CARRIER	NO. LOOPS	ST MSGS	IS MSGS	LOC SLU	ST SLU	IS SLU	TOT SLU
150078	89 CHAUTAUQUA & ERIE	9,159	2,427	1,761	70,135	25,057	22,766	117,958
150081	89 CITIZENS HAMMOND NY	868	373	68	4,493	3,773	1,007	9,272
150082	89 CLYMER TEL CO	772	250	272	5,987	2,483	3,282	11,752
150085	89 CROWN POINT TEL CORP	692	292	94	5,890	2,964	1,360	10,214
150091	89 DUNKIRK & FREDONIA	8,421	1,469	659	91,503	22,759	10,695	124,957
150092	89 EDWARDS TEL CO	1,632	746	83	9,840	7,242	1,495	18,577
150093	89 EMPIRE TEL CORP	6,175	2,486	674	32,634	23,115	11,163	66,913
150097	89 GERMANTOWN TEL CO	1,938	924	217	10,939	9,295	3,240	23,473
150099	89 HANCOCK TEL CO	1,337	454	234	8,159	4,422	2,843	15,424
150100	89 HIGHLAND TEL CO	47,974	24,145	11,559	504,587	267,352	193,648	965,587
150105	89 MIDDLEBURGH TEL CO	5,061	1,958	319	25,525	21,191	6,697	53,412
150108	89 NICHOLVILLE TEL CO	1,411	481	113	12,407	4,315	2,146	18,869
150110	89 OGDEN TEL CO	17,760	2,065	1,318	241,667	27,806	29,163	298,637
150116	89 PATTERSONVILLE TEL	1,157	378	245	13,585	4,090	3,003	20,678
150119	89 RED HOOK TEL CO	12,028	3,987	1,386	102,378	51,365	27,733	181,476
150122	89 SENECA-GORHAM TEL	8,080	3,532	527	43,302	38,099	13,425	94,826
150128	89 SYLVAN LAKE TEL CO	13,062	4,055	2,135	183,495	74,446	47,607	305,548
150084	89 TACONIC TEL CORP	19,165	5,426	3,374	127,621	59,244	37,885	224,750
150133	89 VERNON TEL CO	2,232	620	199	19,634	7,547	3,963	31,144
150135	89 WARWICK VALLEY-NY	11,011	4,755	2,780	75,831	47,472	34,244	157,547
150136	89 WESTERN COUNTIES TEL	19,875	6,632	2,797	156,793	72,002	45,994	274,789
230476	89 ALLTEL CAROLINA-NO	94,122	18,676	14,460	1,233,055	209,597	221,253	1,663,905
230468	89 ATLANTIC MEMBERSHIP	19,766	3,287	2,173	161,996	34,398	29,202	225,596
230469	89 BARNARDSVILLE TEL CO	946	78	55	13,244	1,114	1,305	15,663
230473	89 CITIZENS TEL CO	13,676	2,210	1,714	152,500	23,621	35,344	211,465
230474	89 CONCORD TEL CO	74,716	15,390	6,088	873,458	143,144	112,736	1,129,338
230509	89 CONTEL OF NC	84,736	15,905	11,905	1,025,307	175,480	192,634	1,393,422
230481	89 HEINS TEL CO	23,492	5,126	3,008	152,552	56,963	39,562	249,076
230502	89 STAR MEMBERSHIP CORP	12,196	3,434	765	147,264	36,262	17,723	201,249
230510	89 WILKES MEMBERSHIP	7,460	942	300	125,682	10,829	6,034	142,544
381607	89 CONSOLIDATED COOP	4,000	782	368	39,583	9,212	7,020	55,816
381447	89 CONTEL OF N. DAKOTA	9,745	1,829	712	92,351	22,328	16,155	130,834
381616	89 INTER-COMMUNITY TEL	1,222	439	99	9,515	4,188	1,916	15,619
381617	89 MIDSTATE TEL CO	1,412	377	183	8,861	3,877	3,259	15,997
381630	89 POLAR COMM MUT AID	8,379	1,846	899	83,906	19,383	16,446	119,735
381632	89 RESERVATION TEL COOP	4,097	1,193	379	31,407	11,251	7,352	50,010
381634	89 SOURIS RIVER TEL MUT	11,436	2,621	1,504	96,352	26,431	34,741	157,523
381637	89 W. RIVER MUTUAL AID	8,716	2,086	883	79,145	20,059	15,626	114,830
300665	89 ALLTEL OHIO-WEST OH	17,413	5,564	1,534	161,876	52,394	30,004	244,274
300682	89 C, C & S TELCO -OHIO	468	126	63	2,326	1,289	939	4,553
300597	89 THE CHILLICOTHE TEL	26,415	5,990	2,589	412,116	55,670	29,607	497,392
300607	89 CONTEL OF OHIO	2,016	562	147	19,104	4,889	2,526	26,519
300620	89 HARLAN TEL CO	677	257	59	7,831	2,594	1,315	11,740
300613	89 LITTLE MIAMI COMM.	1,914	394	74	11,416	3,494	1,696	16,606
431965	89 ALLTEL OKLAHOMA INC	10,868	4,957	1,033	74,482	49,257	21,548	145,287
431966	89 ATLAS TEL CO	1,465	546	326	8,673	5,171	3,608	17,452
431974	89 CANADIAN VALLEY TEL	867	275	43	2,762	2,842	1,213	6,817
431976	89 CARNEGIE TEL CO INC	1,484	517	96	10,871	4,885	2,066	17,821
431979	89 CHEROKEE TEL CO	4,268	1,182	920	33,331	10,587	12,172	56,090
431980	89 CHICKASAW TEL CO	6,800	2,991	535	43,211	30,473	13,545	87,228
431981	89 CHOUTEAU TEL CO	2,732	984	351	16,746	9,792	4,784	31,323
431985	89 CROSS TEL CO	7,425	2,783	627	51,343	27,716	11,880	90,938
431988	89 DOBSON TEL CO	4,014	1,268	393	33,445	12,213	6,917	52,575
431994	89 GRAND TEL CO INC	2,312	838	264	13,875	7,311	4,153	25,339
431995	89 HINTON TEL CO	3,157	1,200	215	20,789	10,409	3,948	35,146
431788	89 KANOKLA TEL ASSN-OK	1,207	359	160	6,292	3,264	2,463	12,019
432006	89 MCLLOUD TEL CO	5,803	1,779	395	98,914	17,467	10,053	126,433
432011	89 OKLAHOMA ALLTEL, INC	10,287	3,722	2,026	104,208	37,611	27,029	168,849
431984	89 OKLAHOMA COMM SYSTEM	12,763	4,966	936	111,100	48,965	22,823	182,888
432013	89 OKLAHOMA TEL & TEL	1,746	771	152	11,231	6,996	2,333	20,560
432014	89 OKLAHOMA WESTERN TEL	2,521	820	204	16,251	7,796	4,192	28,239
432016	89 PANHANDLE TEL COOP	4,256	1,395	1,291	23,239	14,646	14,976	52,861
432018	89 PIONEER TEL COOP INC	34,892	13,411	2,787	287,957	123,858	45,081	456,896
432020	89 POTTAWATOMIE TEL CO	1,724	700	104	10,983	7,170	2,535	20,688
431831	89 S. CENTRAL TEL - OK	382	114	59	1,594	1,111	976	3,680
432030	89 TOTAH TELEPHONE CO	1,673	859	183	7,160	8,984	3,365	19,509
432032	89 VALLIANT TEL CO	1,773	618	234	18,696	6,001	4,123	28,819

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FCODE	YR CARRIER	NO. LOOPS	ST MSGS	IS MSGS	LOC SLU	ST SLU	IS SLU	TOT SLU
432034	89 WYANDOTTE TEL CO	373	139	92	1,421	1,322	1,472	4,215
532404	89 ASOTIN TEL - OR	112	23	18	299	297	252	847
532359	89 BEAVER CREEK COOP	3,191	934	295	37,289	10,160	5,010	52,459
532304	89 C P NATIONAL CORP-OR	9,740	4,054	1,086	56,982	34,312	17,795	109,089
532362	89 CANBY TEL ASSN	7,448	3,086	771	58,829	25,364	14,465	98,659
532371	89 CASCADE UTIL INC	7,182	2,102	806	70,059	20,470	12,987	103,516
532363	89 CLEAR CREEK MUTUAL	2,760	696	308	35,922	7,317	5,828	49,067
532364	89 COLTON TEL CO	971	406	89	7,263	4,144	1,929	13,336
532449	89 CONTEL OF THE NW- OR	21,901	7,886	2,025	181,726	83,473	41,455	306,653
532376	89 HELIX TEL CO.	241	109	34	437	1,102	539	2,078
532377	89 HOME TELEPHONE CO	637	150	36	2,395	1,782	599	4,776
532456	89 MALHEUR HOME TEL CO	10,394	1,002	2,692	111,576	13,142	34,414	159,133
532226	89 MIDVALE TEL EXCH -OR	196	62	33	761	584	497	1,842
532383	89 MOLALLA TEL CO.	4,295	2,154	478	40,493	19,312	7,693	67,497
532385	89 MONROE TELEPHONE CO.	702	355	64	3,242	3,333	1,246	7,821
532387	89 NEHALEM TEL & TEL	1,900	596	174	7,077	5,558	2,796	15,431
532388	89 NORTH STATE TEL CO.	369	165	43	1,642	1,597	813	4,051
532389	89 OREGON TEL CORP	1,316	645	171	6,037	6,792	3,092	15,922
532392	89 PINE TEL SYSTEM INC.	647	144	89	3,416	1,623	1,684	6,723
532393	89 PIONEER TEL COOP	10,023	2,979	879	62,210	30,122	17,523	109,855
532375	89 RTI/HALSEY TEL CO	583	657	204	3,120	3,650	2,015	8,784
532397	89 SCIO MUTUAL TEL ASSN	1,327	589	124	8,712	5,749	2,426	16,886
532361	89 TEL UTIL OF OREGON	35,899	14,851	6,084	247,654	151,787	97,331	496,772
532378	89 TRANS-CASCADES TEL	85	33	9	447	457	188	1,092
170170	89 CONTEL OF PA	49,953	13,107	5,838	498,273	150,141	98,466	746,879
170177	89 LACKAWAXEN TEL CO	2,613	633	452	6,951	4,803	6,822	18,576
170183	89 MAHANAY & MAHANTONGO	3,503	992	134	22,141	10,686	2,374	35,202
170192	89 NORTH PENN TEL CO	4,037	917	880	26,247	8,999	10,603	45,849
170194	89 OSWAYO RIVER TEL CO	1,700	294	398	11,719	3,068	5,543	20,330
170201	89 QUAKER STATE TEL CO	30,912	7,140	5,410	266,588	69,970	70,208	406,766
170206	89 SUGAR VALLEY TEL CO	878	280	137	5,405	2,692	1,515	9,611
633200	89 PUERTO RICO COMM	110,103	32,490	5,200	987,579	331,466	125,214	1,444,259
240512	89 BLUFFTON TEL. CO.	2,984	720	905	11,476	6,170	13,152	30,797
240526	89 CONTEL OF SC	14,163	2,830	2,814	218,540	26,840	41,861	287,241
240520	89 FARMERS TEL COOP	35,797	8,515	5,756	581,625	83,210	107,721	772,556
240523	89 HARGRAY TEL CO	30,172	3,100	11,451	235,948	40,265	153,395	429,608
240528	89 HORRY TEL COOP	40,924	6,630	8,311	400,447	65,285	139,537	605,269
240533	89 MCCLELLANVILLE TEL	1,095	528	117	10,275	4,737	2,569	17,580
240539	89 POND BRANCH TEL CO	7,932	2,430	530	76,232	21,176	10,333	107,742
240551	89 WILLISTON TEL CO	3,708	1,108	367	40,467	10,549	5,431	56,447
391647	89 CHEYENNE RIVER SIOUX	1,856	410	213	24,321	4,426	4,653	33,400
391643	89 CONTEL OF S. DAKOTA	7,804	2,213	1,168	61,285	23,728	21,839	106,853
391659	89 GOLDEN WEST TELECOMM	11,343	2,625	1,768	99,396	24,045	27,850	151,291
391666	89 JEFFERSON TEL CO -SD	476	88	183	1,546	712	2,179	4,437
391667	89 KADOKA TELEPHONE CO	511	138	106	2,809	1,330	1,180	5,318
391668	89 KENNEBEC TEL CO	258	95	36	1,183	977	527	2,687
391689	89 WEST RIVER COOP	1,533	275	208	16,168	3,108	3,607	22,883
290552	89 ADAMSVILLE TEL CO	5,819	710	664	72,665	8,421	12,184	93,270
290571	89 MILLINGTON TEL CO	18,210	1,829	2,645	274,607	22,327	50,843	347,776
290575	89 TENNESSEE TEL CO	36,266	5,561	5,872	588,961	58,537	81,695	729,193
290579	89 TWIN LAKES TEL COOP	24,279	3,977	1,872	299,164	41,009	36,422	376,595
442121	89 ALLTEL TEXAS INC	2,705	819	163	19,245	9,860	3,916	33,021
442039	89 BIG BEND TEL CO INC	2,641	888	304	11,718	9,709	5,530	26,958
442040	89 BRAZORIA TEL CO	5,039	1,472	233	55,621	17,496	5,275	78,393
442041	89 BRAZOS TEL COOP INC	1,105	562	40	1,209	5,235	931	7,375
440425	89 CAMERON TEL CO TEXAS	969	360	68	3,230	3,667	1,179	8,076
442046	89 CAP ROCK TEL CO INC	2,324	929	83	12,447	9,992	2,316	24,755
442052	89 CENTRAL TEXAS CO-OP	3,613	966	122	21,547	12,121	2,765	36,434
442059	89 COLORADO VALLEY TEL	4,953	1,348	178	24,409	16,044	4,176	44,628
442066	89 DELL TEL. CO-OP - TX	537	163	104	2,867	1,679	1,447	5,993
442262	89 ENMR TEL COOP-TX	761	136	61	6,274	1,512	1,066	8,853
442068	89 EASTEX TEL COOP INC	20,570	5,810	1,545	149,522	68,905	26,663	245,089
442070	89 ETEX TEL COOP INC	9,118	3,606	500	75,109	41,411	13,537	130,057
442071	89 FIVE AREA TEL CO-OP	1,454	450	134	11,338	5,405	2,649	19,392
442072	89 FORT BEND TEL CO	17,741	3,899	1,822	223,487	43,275	32,119	298,881
442076	89 GANADO TELEPHONE CO	1,275	519	45	9,085	5,866	831	15,783
442083	89 GUADALUPE VALLEY TEL	15,660	8,124	1,197	71,470	84,970	25,697	182,137

TABLE 4.6

1989 NON-TIER 1 COST COMPANIES NETWORK USAGE DATA
MESSAGES & SLU MINUTES (IN THOUSANDS) & LOOPS

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSGS	LOC SLU	ST SLU	IS SLU	TOT SLU
442086	89	HILL COUNTRY CO-OP	9,152	2,640	476	44,253	34,284	12,367	90,904
442093	89	INDUSTRY TEL CO	1,534	561	47	5,843	5,816	1,043	12,702
442097	89	KERRVILLE TEL CO	14,856	3,500	1,165	116,562	43,595	23,084	183,242
442103	89	LA WARD TEL EXCHANGE	879	360	26	2,069	4,222	841	7,132
442101	89	LAKE DALLAS TEL CO	4,435	3,379	598	11,485	29,936	11,589	53,011
442104	89	LAKE LIVINGSTON TEL	946	213	33	2,168	2,372	729	5,270
442109	89	LUFKIN-CONROE TEL EX	62,656	21,149	6,309	696,973	231,483	117,022	1,045,478
442112	89	MID-PLAINS RURAL TEL	2,080	867	125	10,656	9,791	3,317	23,764
442116	89	MUENSTER TEL CORP-TX	2,551	1,162	170	14,045	11,558	2,911	28,514
442117	89	MUSTANG TEL CO	2,471	1,042	437	5,479	8,635	4,930	19,044
442130	89	PEOPLES TEL COOP -TX	7,037	2,428	326	45,297	25,869	8,686	79,853
442131	89	POKA-LAMBRO TEL COOP	3,146	1,316	144	14,987	14,844	5,362	35,193
442134	89	RIVIERA TEL CO INC	831	390	43	3,697	3,432	1,230	8,358
442136	89	ROMAIN TELEPHONE CO	867	254	107	6,112	2,874	1,603	10,589
442135	89	SOUTHWEST TEXAS TEL	2,676	1,142	153	16,024	14,130	3,676	33,830
442147	89	SUGAR LAND TEL CO	30,519	5,142	6,252	501,123	52,065	63,703	616,891
442150	89	TATUM TEL CO	679	358	36	4,272	3,700	903	8,874
442151	89	TAYLOR TEL CO-OP INC	5,275	1,770	195	38,877	20,896	7,672	67,445
442153	89	TEXAS-MIDLAND TEL	9,540	4,175	542	56,509	44,502	12,376	113,387
442155	89	TRI-COUNTY TEL - TX	776	341	34	5,209	3,224	802	9,235
442156	89	TRINITY VALLEY TEL	5,025	2,004	367	46,533	19,842	7,083	73,458
442159	89	VALLEY TEL CO-OP -TX	4,370	2,169	171	26,268	22,479	4,893	53,640
442163	89	WATERWOOD COMM INC	394	145	28	143	1,519	619	2,281
442168	89	WES-TEX TEL CO-OP	3,029	1,020	120	26,585	11,924	3,155	41,665
442166	89	WEST TEXAS RURAL TEL	1,756	702	220	11,501	7,745	4,088	23,334
442170	89	XIT RURAL TEL CO-OP	1,048	322	226	345	4,627	6,145	11,117
502284	89	BEEHIVE TEL CO - UT	470	200	63	8,429	1,706	938	11,073
502277	89	CENTRAL UTAH TEL INC	767	221	59	7,662	2,388	1,233	11,283
502177	89	CONTEL THE WEST - UT	14,095	3,630	2,706	128,928	36,391	38,918	204,237
502278	89	EMERY COUNTY FARMERS	2,469	743	205	29,091	7,691	3,279	40,060
502280	89	KAMAS-WOODLAND TEL	1,609	537	100	9,249	4,710	2,073	16,032
502275	89	NAVAJO COMMUN - UT	301	65	170	847	567	1,600	3,014
502286	89	SOUTH CENTRAL UTAH	2,466	624	408	21,325	6,161	6,331	33,817
502287	89	UINTAH BASIN TEL	2,183	660	174	18,105	12,831	3,735	34,671
502288	89	UT-WY TELECOM	438	92	86	3,563	1,029	959	5,552
140070	89	CONTEL OF VERMONT	33,120	8,520	6,476	188,749	72,967	80,099	341,815
140058	89	LUDLOW TEL CO	3,857	814	738	12,678	6,567	10,077	29,322
140061	89	NORTHFIELD TEL CO	2,665	822	597	14,731	6,909	11,132	32,772
140062	89	PERKINSVILLE TEL CO	755	322	165	1,455	2,792	1,852	6,098
140068	89	TOPSHAM TEL CO	1,090	240	176	8,401	2,321	2,634	13,355
140069	89	WAITSFIELD/FAYSTON	4,389	974	1,034	15,989	7,431	15,109	38,529
643300	89	VIRGIN ISLANDS TEL	45,536	0	12,288	902,981	0	173,158	1,076,139
190217	89	AMELIA TEL CORP	3,222	1,219	294	30,972	11,810	5,040	47,822
190249	89	ROANOKE & BOTETOURT	6,414	1,839	1,489	77,370	21,956	16,385	115,710
522404	89	ASOTIN TEL - WA	900	88	98	8,666	1,314	1,683	11,663
522449	89	CONTEL OF THE NW-WA	51,092	19,413	6,763	412,566	177,935	103,121	693,622
522410	89	COWICHE TELEPHONE CO	1,431	692	117	7,224	6,257	1,989	15,471
522412	89	ELLENSBURG TEL CO	14,210	3,417	2,360	137,219	37,443	32,485	207,147
522417	89	HAT ISLAND TEL CO	57	11	2	0	120	19	139
522419	89	HOOD CANAL TEL CO	769	294	76	1,582	2,751	1,087	5,420
522423	89	INLAND TEL CO -WA	1,531	360	175	7,271	3,730	2,245	13,245
522426	89	KALAMA TEL CO	1,606	815	299	8,997	6,747	3,245	18,990
522427	89	LEWIS RIVER TEL CO	2,423	1,174	520	12,762	10,957	7,457	31,176
522431	89	MASHELL TEL CO INC	1,926	983	168	8,212	9,085	3,484	20,781
522436	89	PENINSULA TELECOMM	4,181	1,431	592	32,531	15,442	8,474	56,446
522437	89	PIONEER TEL CO	731	233	67	4,002	2,387	989	7,379
522442	89	ST JOHN TEL CO	537	206	61	2,734	2,247	806	5,787
522408	89	TEL UTIL OF WA INC	78,038	33,355	12,742	511,321	327,195	188,010	1,026,525
522446	89	TENINO TELEPHONE CO	2,106	1,201	227	11,972	10,700	4,473	27,146
522447	89	TOLEDO TELEPHONE CO	1,345	606	197	8,809	4,931	3,410	17,150
522451	89	WESTERN WAHIAKUM	800	248	130	5,560	2,958	1,832	10,350
522452	89	WHIDBEY TEL CO.	7,341	2,267	1,303	35,963	23,650	14,160	73,773
522453	89	YELM TELEPHONE CO	5,419	2,613	650	42,860	24,412	12,585	79,857
200278	89	CONTEL OF WV	23,137	6,400	3,853	346,090	55,887	47,126	449,103
200259	89	HARDY TEL CO	1,993	184	292	24,730	1,819	4,235	30,783
200270	89	MOUNTAIN STATE TEL	15,688	4,422	2,315	234,688	46,268	39,730	320,686
330841	89	CENCOM OF WISCONSIN	22,932	4,894	1,783	152,966	48,629	24,129	225,724

TABLE 4.6

1989 NON-TIER 1 COST COMPANIES NETWORK USAGE DATA
MESSAGES & SLU MINUTES (IN THOUSANDS) & LOOPS

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSGS	LOC SLU	ST SLU	IS SLU	TOT SLU
330859	89	CENTRAL STATE TEL CO	7,212	2,093	553	51,780	20,906	9,727	82,413
330895	89	CENTURY OF WISCONSIN	44,188	5,679	7,866	477,607	71,090	140,910	689,607
330860	89	CHEQUAMEGON TEL COOP	6,226	1,288	696	26,572	11,788	11,067	49,427
330870	89	CRANDON TEL CO	2,346	526	124	16,758	5,762	2,556	25,077
330891	89	HEADWATERS TEL CO	3,643	657	212	15,760	6,809	4,314	26,882
330936	89	INDIANHEAD TEL CO	1,650	475	132	7,556	4,413	2,377	14,347
330908	89	MARQUETTE-ADAMS COOP	2,643	769	354	10,531	6,057	6,829	23,417
330909	89	MIDWAY TEL CO	6,105	1,688	835	53,970	19,574	11,137	84,681
330913	89	MONROE COUNTY TEL CO	8,760	1,978	993	72,237	19,969	18,413	110,619
330916	89	MOUNT HOREB TEL CO	2,978	523	226	29,195	5,822	4,480	39,497
330917	89	MT VERNON TEL CO	5,328	1,143	573	65,648	13,637	11,009	90,294
330922	89	NORTH-WEST TEL CO	54,242	15,126	5,576	485,055	159,448	94,339	738,843
330931	89	PEOPLES TEL CO	5,494	1,648	418	33,313	15,202	6,443	54,958
330934	89	PLATTEVILLE TEL CO	7,415	1,410	835	52,478	19,507	13,763	85,747
330937	89	PRICE COUNTY TEL CO	3,451	853	400	3,669	8,574	6,423	18,666
330940	89	RHINELANDER TEL CO	9,607	2,325	1,046	95,195	26,939	19,933	142,066
330950	89	SOLON SPRINGS TEL CO	14,368	2,756	1,919	69,338	26,766	27,810	123,914
330952	89	SE TEL OF WISCONSIN	5,910	1,846	539	54,487	19,529	10,015	84,032
330956	89	UNIVERSAL OF N WISC	9,818	2,502	815	61,066	26,428	15,807	103,302
330964	89	URBAN TEL CORP	16,664	4,419	1,190	142,639	52,295	20,947	215,882
330963	89	UTELCO, INC	12,658	2,514	1,648	99,395	24,533	21,583	145,511
330974	89	WOOD COUNTY TEL CO	21,022	4,117	1,883	202,883	45,656	30,667	279,205
512291	89	DUBOIS TEL EXCHANGE	1,525	302	312	7,436	3,062	4,493	14,991
512251	89	RANGE TEL COOP - WY	1,346	333	316	12,089	3,757	4,413	20,259
512295	89	SILVER STAR TEL-WY	1,037	218	288	5,629	1,538	3,582	10,749
512299	89	TEL. UTIL. OF WY.	3,016	672	738	14,073	6,611	10,430	31,114
512297	89	UNION TELEPHONE CO	2,750	544	902	25,354	5,607	11,426	42,388
512290	89	UTAH-WYOMING TELECOM	302	38	91	1,664	373	1,083	3,119
TOTAL 564 NON-TIER 1 COST COMPANIES			5,429,387	1,514,108	702,343	51,196,352	15,330,224	11,457,569	77,960,660
FULLY REPORTING TIER 1			119,629,932	25,422,358	23,804,782	1,709,832,000	245,633,000	301,060,000	2,256,525,000
NON-FULLY REPORTING TIER 1			3,588,938	692,368	478,743	40,901,000	6,550,000	7,627,000	55,078,000
TOTAL COST COMPANIES			128,648,257	27,628,834	24,985,868	1,801,929,352	267,513,224	320,144,569	2,389,563,660
AVERAGE SCHEDULE COMPANIES			2,922,043	708,943	321,677	26,663,000	7,134,000	5,428,000	39,224,000
TOTAL INDUSTRY			131,570,300	28,337,777	25,307,545	1,828,592,352	274,647,224	325,572,569	2,428,787,660

* - COMPANIES FOR WHICH NECA COMPUTED DATA

DETAILS MAY NOT ADD TO TOTALS DUE TO ROUNDING

TABLE 4.7

 1989 NON-TIER 1 COST COMPANIES NETWORK USAGE DATA
 DIAL EQUIPMENT MINUTES (IN THOUSANDS) & FACTORS

FCODE	YEAR	CARRIER	LOC DEM	ST DEM	IS DEM	TOT DEM	IS SLU	IS SPF	IS DEM	TR DEM
250302	89	ALLTEL ALABAMA	208,971	46,200	26,921	282,093	0.0942	0.2666	0.0954	0.2218
250284	89	BUTLER TEL CO	60,000	7,386	9,720	77,105	0.1261	0.2720	0.1261	0.2974
250281	89	CONTEL OF THE SOUTH	1,121,899	194,708	131,429	1,448,036	0.0877	0.2328	0.0908	0.1618
250297	89	GROVE HILL TEL CORP	19,122	7,520	2,908	29,550	0.0991	0.2311	0.0984	0.2134
250298	89	GULF TEL CO - AL	193,838	33,570	55,747	283,154	0.1924	0.3166	0.1969	0.3661
250300	89	HOPPER TEL. CO INC	25,470	9,678	2,865	38,014	0.0754	0.1938	0.0754	0.1586
250304	89	MILLRY TEL CO	55,001	12,027	9,329	76,357	0.1225	0.2905	0.1222	0.2994
250306	89	MONROEVILLE TEL CO	149,601	25,536	27,558	202,695	0.1327	0.2454	0.1360	0.2633
250314	89	PEOPLES TEL CO	137,075	20,395	18,720	176,190	0.1066	0.2216	0.1062	0.2165
250316	89	RAGLAND TEL CO	9,893	3,496	1,253	14,642	0.0856	0.2193	0.0856	0.1788
250318	89	SOUTHLAND TEL CO-AL	158,784	23,758	21,565	204,107	0.1055	0.2583	0.1057	0.2460
613000	89	ANCHORAGE TEL UTIL	1,837,019	165,759	358,341	2,361,118	0.1527	0.3971	0.1518	0.3603
613001	89	ARCTIC SLOPE TEL	8,608	13,079	10,338	32,025	0.3228	0.5500	0.3228	0.6869
613003	89	BRISTOL BAY TEL COOP	6,294	3,765	3,458	13,516	0.2558	0.5500	0.2558	0.6436
613004	89	BUSH-TELL INC.	3,436	2,830	593	6,858	0.0864	0.3689	0.0864	0.2752
613006	89	COPPER VALLEY TEL	41,356	18,241	18,445	78,042	0.2364	0.4472	0.2364	0.5934
613007	89	CORDOVA TEL COOP	12,607	4,486	6,251	23,344	0.2678	0.5450	0.2678	0.7418
613008	89	FAIRBANKS MUNICIPAL	353,247	40,627	75,895	469,768	0.1616	0.3767	0.1616	0.3969
613010	89	GLACIER STATE TEL CO	313,664	63,012	93,937	470,612	0.1996	0.4689	0.1996	0.5238
613009	89	GTE ALASKA INC.	91,125	38,279	31,230	160,634	0.1943	0.4164	0.1944	0.4602
613011	89	INTERIOR TEL CO INC	12,801	9,281	14,930	37,012	0.4034	0.5500	0.4034	0.7875
613012	89	JUNEAU & DOUGLAS TEL	172,618	30,888	54,515	258,021	0.2113	0.4493	0.2113	0.5525
613013	89	KETCHIKAN PUBLIC UT	77,960	10,834	27,742	116,536	0.2381	0.4542	0.2381	0.6162
613015	89	MATANUSKA TEL ASSOC	274,744	64,712	88,983	428,439	0.2077	0.3479	0.2077	0.3871
613016	89	MUKLUK TEL CO INC	2,986	3,000	909	6,896	0.1318	0.3537	0.1318	0.2852
613018	89	NUSHAGAK TEL COOP	12,586	4,947	3,605	21,138	0.1705	0.4601	0.1705	0.5468
613019	89	OTZ TEL COOPERATIVE	13,538	10,433	4,269	28,240	0.1512	0.3106	0.1512	0.3186
613020	89	SITKA TELEPHONE CO	54,855	26,753	29,263	110,871	0.2639	0.4649	0.2639	0.5806
613022	89	TEL UTIL OF ALASKA	24,799	2,191	12,135	39,126	0.3102	0.6500	0.3102	0.8094
613023	89	UNITED UTILITIES INC	22,363	17,329	4,580	44,273	0.1035	0.2953	0.1035	0.2244
613025	89	YUKON TEL CO INC	1,542	1,892	887	4,322	0.2053	0.5500	0.2053	0.5019
452171	89	ARIZONA TELEPHONE CO	3,636	5,937	3,685	13,258	0.2779	0.5500	0.2779	0.5681
452172	89	CITIZENS UTILITIES	292,843	42,400	178,989	514,232	0.3481	0.5252	0.3481	0.6380
452302	89	CONTEL CALIF - AZ	33,598	11,317	18,424	63,339	0.2913	0.4524	0.2909	0.6251
452177	89	CONTEL OF WEST-AZ	154,068	62,328	57,804	274,200	0.2108	0.3347	0.2108	0.3681
452275	89	NAVAJO COMMUN-AZ	47,548	32,694	33,564	113,807	0.2808	0.5443	0.2949	0.6666
452173	89	PAPAGO TRIBAL UTIL.	7,181	3,831	1,479	12,491	0.1200	0.3532	0.1184	0.3722
452175	89	UNIVERSAL TEL OF SW	7,376	2,802	1,857	12,035	0.1543	0.4131	0.1543	0.3783
452176	89	VALLEY TEL COOP-AZ	9,904	7,461	7,073	24,438	0.2894	0.4899	0.2894	0.5793
401691	89	ALLTEL ARKANSAS INC	631,218	186,657	141,466	959,341	0.1430	0.2861	0.1475	0.2306
401692	89	ARKANSAS TEL CO	56,562	9,232	11,906	77,701	0.1443	0.3872	0.1532	0.4381
401697	89	CENTRAL ARKANSAS TEL	21,331	6,206	3,123	30,660	0.1019	0.2486	0.1019	0.2162
401705	89	CENTURY OF ARKANSAS	108,263	24,225	28,016	160,505	0.1746	0.3101	0.1745	0.3502
401698	89	CLEVELAND COUNTY TEL	18,891	8,274	3,074	30,239	0.1017	0.2775	0.1017	0.2406
401730	89	CONTEL OF ARKANSAS	745,969	208,017	151,835	1,105,821	0.1373	0.2803	0.1373	0.2253
401699	89	DECATUR TEL CO INC	4,236	2,925	1,886	9,048	0.2085	0.5309	0.2085	0.5764
401709	89	MADISON COUNTY TEL	20,645	6,157	4,949	31,750	0.1559	0.2764	0.1559	0.3147
401711	89	MOUNTAIN HOME TEL	85,047	22,646	39,009	146,702	0.2663	0.3702	0.2659	0.4805
401713	89	NORTH ARKANSAS TEL	26,022	10,069	11,813	47,904	0.2441	0.3989	0.2465	0.5068
401717	89	PERCO TELEPHONE CO	18,003	7,089	3,734	28,826	0.1295	0.2520	0.1295	0.2569
401720	89	REDFIELD TEL CO	8,149	5,527	2,011	15,687	0.1282	0.3176	0.1282	0.3345
401702	89	SOUTH ARKANSAS TEL	32,264	8,714	4,688	45,666	0.1027	0.2670	0.1027	0.2488
401726	89	TRI-COUNTY TEL CO-AR	47,962	9,822	8,980	66,764	0.1347	0.2542	0.1345	0.3592
401727	89	UNION TEL CO INC	7,330	2,400	2,580	12,310	0.2096	0.3249	0.2095	0.4283
401729	89	WALNUT HILL TEL CO	36,246	10,207	8,930	55,384	0.1612	0.3590	0.1612	0.4163
401733	89	YELCOT TEL CO INC	24,971	5,787	5,587	36,345	0.1537	0.3154	0.1537	0.3526
401734	89	YELL COUNTY TEL CO	35,629	10,590	5,132	51,350	0.0994	0.2423	0.0999	0.2189
542304	89	C P NATIONAL CORP-CA	69,809	41,196	14,142	125,147	0.1126	0.2681	0.1130	0.2199
542301	89	CALAVERAS TEL CO	6,965	5,592	2,204	18,761	0.1175	0.2492	0.1175	0.2336
542311	89	CALIF-OREGON TEL CO	10,785	5,331	5,955	22,070	0.2698	0.4359	0.2693	0.5945
542308	89	CITIZENS UTIL OF CA	626,112	224,291	84,730	935,133	0.0906	0.2379	0.0905	0.1512
542313	89	DUCOR TELEPHONE CO	2,316	3,119	535	5,971	0.0896	0.2270	0.0895	0.1517
542315	89	EVANS TEL CO.	52,802	44,198	9,526	106,526	0.0894	0.2146	0.0894	0.1789
542318	89	FORESTHILL TEL CO.	6,954	9,076	1,611	17,641	0.1044	0.2573	0.0913	0.2626
542321	89	HAPPY VALLEY TEL CO	26,633	9,652	2,592	38,877	0.0667	0.2070	0.0667	0.1507
542322	89	HORNITOS TEL CO	571	2,453	359	3,383	0.1061	0.2525	0.1061	0.2200
542324	89	KERMAN TELEPHONE CO	49,073	16,859	3,218	69,151	0.0465	0.1826	0.0465	0.1116

TABLE 4.7

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DIAL EQUIPMENT MINUTES (IN THOUSANDS) & FACTORS

FCODE	YEAR	CARRIER	LOC DEM	ST DEM	IS DEM	TOT DEM	IS SLU	IS SPF	IS DEM	TR DEM
542346	89	PINNACLES TEL CO	237	2,131	434	2,801	0.1548	0.3546	0.1548	0.2954
542332	89	THE PONDEROSA TEL CO	29,348	25,296	6,520	61,164	0.1066	0.2148	0.1066	0.1887
542334	89	ROSEVILLE TEL CO	806,906	208,710	78,951	1,094,568	0.0722	0.2160	0.0721	0.1149
542338	89	SIERRA TELEPHONE CO	88,391	51,936	13,776	154,103	0.0896	0.2225	0.0894	0.1503
542339	89	THE SISKIYOU TEL CO	16,867	16,412	5,773	39,051	0.1478	0.2903	0.1478	0.3185
542342	89	TUOLUMNE TEL CO	20,904	20,557	4,202	45,663	0.0921	0.2589	0.0920	0.2353
542343	89	THE VOLCANO TEL CO	32,855	31,310	7,714	71,878	0.1071	0.2190	0.1073	0.2079
542323	89	WINTERHAVEN TEL. CO.	3,829	1,491	5,054	10,374	0.4872	0.1124	0.4872	0.3946
462192	89	BIG SANDY TELCOMM	3,539	2,415	1,188	7,141	0.1663	0.2973	0.1663	0.3529
462181	89	BIJOU TEL COOP ASSOC	4,580	3,798	1,884	10,262	0.1836	0.3271	0.1836	0.3507
462182	89	BLANCA TEL CO	1,088	758	637	2,483	0.2565	0.5061	0.2565	0.6144
462204	89	COLUMBINE TEL CO	1,912	1,546	1,272	4,730	0.2689	0.4808	0.2689	0.5948
462184	89	DELTA COUNTY TEL CO	56,451	10,262	13,926	80,639	0.1727	0.2818	0.1727	0.3538
462185	89	EAGLE TELECOMMUN INC	28,757	15,314	17,423	61,495	0.2833	0.4416	0.2833	0.6143
462186	89	EASTERN SLOPE RURAL	19,643	13,724	8,227	41,593	0.1978	0.3188	0.1978	0.3958
462187	89	EL PASO COUNTY TEL	12,406	9,050	4,610	26,066	0.1769	0.3105	0.1769	0.3864
462188	89	FARMERS TEL CO - CO	1,304	1,005	518	2,827	0.1832	0.3749	0.1832	0.4220
462190	89	HAXTUN TEL CO	6,465	4,619	2,283	13,366	0.1722	0.2977	0.1708	0.3231
462193	89	NUCLA-NATURITA TEL	6,007	2,377	1,995	10,378	0.1922	0.3698	0.1922	0.4571
462194	89	NUNN TEL CO	711	800	565	2,116	0.2670	0.4312	0.2670	0.5549
462196	89	PEETZ COOP TEL CO	1,363	633	571	2,567	0.2223	0.3553	0.2223	0.4647
462199	89	PLAINS COOP TEL ASSN	8,499	5,221	2,735	16,455	0.1662	0.2567	0.1662	0.3007
462203	89	RYE TELEPHONE CO	8,107	4,120	2,764	14,991	0.1844	0.3608	0.1844	0.4294
462207	89	STRASBURG TEL CO	3,749	3,503	1,860	9,112	0.2041	0.3318	0.2041	0.3757
461835	89	SUNFLOWER TEL - CO	1,320	948	923	3,191	0.2892	0.3678	0.2892	0.5067
462208	89	UNIVERSAL TEL CO -CO	28,675	6,608	14,490	49,773	0.2914	0.5651	0.2911	0.6342
462209	89	WIGGINS TEL ASSOC	5,546	4,655	1,979	12,180	0.1625	0.2721	0.1625	0.2976
210336	89	ALLTEL FLORIDA INC.	564,669	144,428	96,260	805,357	0.1197	0.2544	0.1195	0.2222
210291	89	FLORALA TEL CO	18,030	3,017	2,231	23,278	0.0958	0.2811	0.0958	0.2484
210329	89	GULF TEL CO	90,304	22,156	17,448	129,908	0.1322	0.2248	0.1343	0.2567
210331	89	INDIANTOWN SYSTEM	12,431	11,550	4,838	28,820	0.1712	0.3437	0.1679	0.4132
210335	89	NORTHEAST FLORIDA	53,595	19,232	8,923	81,751	0.1092	0.2266	0.1092	0.2327
210338	89	QUINCY TEL CO-FL DIV	121,698	28,480	19,524	169,702	0.1120	0.2226	0.1151	0.2306
210339	89	ST JOSEPH TEL & TEL	178,152	51,916	39,898	269,966	0.1469	0.3109	0.1478	0.3016
210318	89	SOUTHLAND TEL-FL	46,974	4,736	6,746	58,455	0.1154	0.2676	0.1154	0.2728
210330	89	VISTA-UNITED TELCOM	113,535	28,887	73,418	215,840	0.3092	0.4677	0.3401	0.7545
220344	89	ALMA TEL CO	61,254	13,517	6,593	81,364	0.0803	0.2037	0.0810	0.1689
220347	89	BRANTLEY TEL CO	33,338	9,249	4,424	47,011	0.0922	0.2170	0.0941	0.2026
220351	89	CAMDEN TEL & TEL CO	114,409	17,887	48,213	180,509	0.2522	0.4425	0.2671	0.4505
220355	89	CITIZENS TEL CO - GA	46,411	11,040	4,750	62,201	0.0755	0.2233	0.0764	0.1746
220356	89	COASTAL UTILITIES	191,754	58,075	98,806	348,635	0.2842	0.4079	0.2834	0.5242
220281	89	CONTEL OF SOUTH - GA	676,711	175,523	98,021	950,255	0.1021	0.2355	0.1032	0.1669
220358	89	DARIEN TEL CO	33,485	10,294	4,912	48,690	0.1011	0.2593	0.1009	0.2497
220360	89	ELLIJAY TEL CO	68,714	17,465	9,462	95,641	0.0915	0.2106	0.0989	0.1746
220371	89	INTERSTATE TEL CO	153,350	20,512	26,625	200,487	0.1273	0.2489	0.1328	0.2765
220377	89	PINELAND TEL COOP	94,921	23,515	10,232	128,667	0.0789	0.1949	0.0795	0.1485
220379	89	PLANT TEL. CO.	75,952	21,808	10,316	108,076	0.0957	0.2093	0.0955	0.1935
220381	89	PUBLIC SERVICE TEL	91,084	24,866	10,588	126,539	0.0838	0.2019	0.0837	0.1582
220338	89	QUINCY TEL CO-GA DIV	10,354	980	2,119	13,452	0.1575	0.3405	0.1575	0.3594
220386	89	STANDARD TEL CO	348,816	126,332	73,954	549,103	0.1347	0.2179	0.1347	0.2141
220392	89	WAVERLY HALL TEL CO	5,913	3,583	1,467	10,964	0.1338	0.2436	0.1333	0.2305
220394	89	WILKES TEL & ELC CO	117,521	22,700	17,471	157,691	0.1107	0.2147	0.1103	0.2212
472213	89	ALBION TEL CO INC	7,436	2,540	2,092	12,067	0.1733	0.3315	0.1733	0.3875
472215	89	CAMBRIDGE TEL CO	4,913	2,548	1,804	9,266	0.1947	0.3360	0.1947	0.3984
472225	89	CENTURY TEL OF IDAHO	24,095	4,121	9,497	37,714	0.2520	0.3455	0.2513	0.5241
472177	89	CONTEL OF WEST-ID	75,370	38,766	30,949	145,085	0.2133	0.3706	0.2133	0.4260
472218	89	CUSTER TEL COOP	10,932	3,033	3,530	17,495	0.2018	0.5500	0.2018	0.6670
472223	89	GEM STATE UTIL-ID	7,288	3,687	2,500	13,474	0.1855	0.3850	0.1855	0.4309
472423	89	INLAND TEL-ID	772	804	561	2,137	0.2624	0.3225	0.2624	0.4677
472226	89	MIDVALE TEL EXCH INC	1,660	1,095	469	3,224	0.1454	0.2765	0.1454	0.3070
472231	89	PROJECT MUTUAL TEL	84,687	9,921	11,815	106,424	0.1101	0.2813	0.1110	0.2886
472232	89	ROCKLAND TEL CO INC	2,424	1,092	632	4,148	0.1524	0.2980	0.1524	0.3096
472233	89	RURAL TEL CO - ID	363	721	368	1,452	0.2533	0.5500	0.2533	0.6017
472295	89	SILVER STAR TEL- ID	1,570	1,003	856	3,429	0.2496	0.4558	0.2496	0.5437
472234	89	TROY TELEPHONE CO	3,237	2,150	1,687	7,074	0.2385	0.3791	0.2385	0.5026
341000	89	ALLTEL ILLINOIS INC.	292,600	120,832	86,759	500,190	0.1735	0.2988	0.1735	0.3068
341036	89	CONTEL OF ILLINOIS	1,184,677	642,483	301,288	2,128,448	0.1351	0.2597	0.1416	0.2043

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341004	89	EL PASO TEL CO	10,266	6,857	2,445	19,568	0.1250	0.2481	0.1250	0.2316
341023	89	GRIDLEY TEL CO	5,070	5,449	1,378	11,898	0.1159	0.2531	0.1159	0.2651
341037	89	IL CONSOLIDATED TEL	679,333	263,492	130,318	1,073,143	0.1187	0.2365	0.1214	0.1744
341038	89	INLAND TEL CO	19,674	21,484	5,006	46,164	0.1084	0.2192	0.1084	0.1985
341045	89	LEAF RIVER VLY TEL	2,398	2,367	978	5,743	0.1704	0.2298	0.1704	0.2639
341055	89	MIDLAND TEL CO	21,880	18,479	4,119	44,478	0.0926	0.2200	0.0926	0.1681
341060	89	MOULTRIE INDEPENDENT	4,565	2,569	716	7,850	0.0912	0.2031	0.0912	0.1711
320753	89	CLAY CTY RURAL COOP	83,076	27,064	9,426	119,565	0.0788	0.2226	0.0788	0.1935
320776	89	COMM CORP OF INDIANA	90,341	17,504	20,937	128,782	0.1635	0.4054	0.1626	0.4307
320779	89	CONTEL OF INDIANA	1,626,936	321,133	326,963	2,275,032	0.1056	0.2640	0.1437	0.2097
320797	89	NEW PARIS TEL INC	14,677	4,858	3,640	23,175	0.1428	0.2506	0.1571	0.3003
320800	89	NORTHWESTERN INDIANA	69,956	30,337	21,426	121,719	0.1760	0.3271	0.1760	0.3932
351346	89	ACE TEL ASSN-IA	29,287	9,818	6,502	45,607	0.1431	0.2197	0.1426	0.2597
351105	89	AYRSHIRE FARMERS MUT	1,403	1,470	582	3,455	0.1686	0.2398	0.1686	0.2759
351110	89	BERNARD TEL CO INC	3,303	2,003	731	6,037	0.1210	0.2515	0.1210	0.2286
351127	89	CENDEL OF IOWA	393,761	119,820	104,310	617,891	0.1615	0.3429	0.1688	0.2651
351207	89	CONTEL OF IOWA, INC.	538,472	216,995	129,632	885,099	0.1459	0.2418	0.1465	0.1877
351888	89	GRAND RIVER MUT-IA	48,472	13,986	11,994	74,452	0.1611	0.3161	0.1611	0.3509
351229	89	LOST NATION-ELWOOD	3,410	2,148	850	6,408	0.1326	0.2067	0.1326	0.2251
351316	89	UNITED FARMERS TEL	3,062	1,933	1,831	6,826	0.2682	0.2841	0.2682	0.5304
351327	89	WEBB-DICKENS TEL	1,501	2,129	829	4,458	0.1859	0.2605	0.1859	0.3127
411741	89	ASSARIA TEL EXCHANGE	2,322	2,489	1,033	5,844	0.1767	0.2791	0.1767	0.3201
411746	89	BLUE VALLEY TEL CO	13,033	9,192	3,295	25,519	0.1291	0.2663	0.1291	0.2610
411818	89	CRAW-KAN TEL COOP	73,372	37,631	21,368	132,371	0.1614	0.2784	0.1614	0.3220
411761	89	CUNNINGHAM TEL CO	6,971	4,512	1,904	13,388	0.1471	0.2745	0.1423	0.2721
411764	89	ELKHART TEL CO INC	8,211	2,407	4,300	14,919	0.2883	0.4024	0.2883	0.6109
411781	89	H & B COMMUNICATIONS	4,008	2,722	1,264	7,994	0.1638	0.2923	0.1581	0.2994
411782	89	HOME TEL CO	6,940	5,593	1,721	14,254	0.1207	0.2744	0.1207	0.2574
411785	89	J. B. N. TEL CO INC	11,771	8,714	2,694	23,179	0.1162	0.2651	0.1162	0.2502
411788	89	KANOKLA TEL ASSN-KS	12,010	5,328	3,322	20,661	0.1668	0.3137	0.1608	0.3603
411801	89	MADISON TEL CO INC	4,441	1,758	992	7,191	0.1379	0.2765	0.1379	0.2988
411807	89	MOKAN DIAL INC-KS	12,725	8,056	4,367	25,149	0.1737	0.2922	0.1737	0.3465
411808	89	MOUNDRIDGE TEL CO	14,216	6,463	3,496	24,174	0.1433	0.2774	0.1446	0.3214
411814	89	PEOPLES MUTUAL TEL	6,133	2,714	1,940	10,786	0.1798	0.3501	0.1798	0.3719
411817	89	PIONEER TEL ASSN INC	87,829	26,196	25,189	139,213	0.1809	0.3700	0.1809	0.4287
411826	89	RURAL TEL SERVICE CO	38,904	22,533	9,151	70,588	0.1296	0.2640	0.1296	0.2618
411827	89	S & T TEL COOP ASSN	7,105	5,899	2,944	15,948	0.1846	0.3285	0.1846	0.3604
411831	89	S. CENTRAL TEL - KS	3,837	3,937	1,455	9,229	0.1577	0.2816	0.1577	0.3230
411835	89	SUNFLOWER TEL CO	29,519	10,073	8,579	48,171	0.1781	0.3354	0.1781	0.4098
412030	89	TOTAH TELEPHONE CO	4,917	4,278	2,668	11,863	0.2295	0.3682	0.2249	0.4278
411840	89	TWIN VALLEY TEL INC	12,733	5,140	2,136	20,010	0.1122	0.2514	0.1068	0.2301
411841	89	UNITED TEL ASSN	26,107	17,183	8,551	51,841	0.1649	0.3572	0.1649	0.3835
411317 *		UTC-IA DBA UTC-E. KS	12,794	3,465	2,644	14,130	0.2098	0.3063	0.2098	0.3274
411957 *		UTC-MO DBA UTC-SE KS	12,794	3,465	2,644	14,130	0.2098	0.3063	0.2098	0.3274
411847	89	THE WHEAT STATE TEL	10,670	8,166	2,998	21,834	0.1373	0.2735	0.1373	0.2649
411849	89	WILSON TEL CO INC	11,490	7,096	3,055	21,641	0.1462	0.2499	0.1412	0.2592
411852	89	ZENDA TEL COMPANY	873	1,067	205	2,145	0.0957	0.2242	0.0957	0.1879
260410	89	CONTEL OF KENTUCKY	823,001	141,001	133,104	1,097,106	0.1203	0.2107	0.1213	0.1585
270431	89	CADDOAN TEL CO	73,750	19,962	24,737	118,449	0.2088	0.2752	0.2088	0.3716
270425	89	CAMERON TEL CO - LA	56,336	22,340	18,366	97,042	0.1893	0.3079	0.1893	0.3582
270423	89	CENTRAL LOUISIANA	152,441	38,832	32,076	223,349	0.1436	0.2129	0.1436	0.2206
270440	89	CENTURY TEL CO	21,868	7,459	4,551	33,878	0.1343	0.1932	0.1343	0.2185
270436	89	CENTURY NORTH LA	53,967	18,042	14,182	86,192	0.1645	0.2421	0.1645	0.2967
270424	89	COASTAL TEL & ELECTR	96,651	30,640	18,101	145,392	0.1245	0.2011	0.1245	0.2103
270429	89	EAST ASCENSION TEL	316,241	62,650	40,850	419,741	0.0973	0.2142	0.0973	0.1937
270430	89	ELIZABETH TEL CO	25,601	5,188	3,938	34,727	0.1134	0.2207	0.1134	0.2229
270434	89	EVANGELINE TEL CO	308,705	74,872	49,987	433,563	0.1154	0.1912	0.1153	0.1642
270433	89	LAFOURCHE TEL CO	119,469	25,307	11,508	156,284	0.0736	0.2493	0.0736	0.1919
270442	89	LOUISIANA WESTERN	32,872	10,973	8,330	52,175	0.1599	0.2320	0.1597	0.2803
270435	89	NORTHEAST LOUISIANA	10,265	4,015	1,985	16,265	0.1221	0.2668	0.1221	0.2596
270438	89	RESERVE TEL CO	17,895	10,615	5,336	33,846	0.1592	0.3081	0.1577	0.3051
100004	89	CHINA TEL CORP	9,586	9,577	4,198	23,361	0.1799	0.3034	0.1797	0.3768
100014	89	CONTEL OF MAINE	212,267	112,450	73,731	398,448	0.1784	0.3138	0.1850	0.3314
100010	89	HAMPDEN TEL CO	22,176	9,939	3,662	35,777	0.1111	0.2727	0.1024	0.2779
100011	89	HARTLAND & ST ALBANS	15,586	8,428	4,056	28,071	0.1445	0.2833	0.1445	0.3252
100003	89	LINCOLNVILLE TEL CO	7,349	2,837	2,880	13,066	0.2206	0.4776	0.2204	0.6063
100024	89	SOMERSET TEL CO	40,325	26,345	13,245	79,914	0.1666	0.2932	0.1657	0.3327

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100025	89	STANDISH TEL CO	22,308	21,347	12,480	56,135	0.2213	0.3936	0.2223	0.5120
100027	89	UNION RIVER TEL CO	3,259	2,191	1,065	6,516	0.1620	0.3605	0.1635	0.3456
100029	89	UNITY TEL CO., INC.	18,975	10,981	5,682	35,638	0.1561	0.3019	0.1594	0.3532
100031	89	WARREN TEL CO	5,074	6,790	2,128	13,993	0.1521	0.3016	0.1521	0.3367
100034	89	WEST PENOBSCOT TEL	8,036	7,122	2,209	17,368	0.1272	0.2526	0.1272	0.2670
310704	89	ACE TEL OF MICHIGAN	14,134	14,142	2,391	30,667	0.0786	0.2330	0.0780	0.1904
310681	89	ALLTEL MICHIGAN INC.	263,866	169,328	72,922	506,117	0.1441	0.2471	0.1441	0.2242
310679	89	BLOOMINGDALE TEL CO	5,702	7,893	2,176	15,770	0.1395	0.2554	0.1380	0.2822
310682	89	C, C & S TELCO - MI	121,039	57,026	23,127	201,192	0.1153	0.2248	0.1150	0.2132
310683	89	CARR TEL CO	4,040	3,921	1,129	9,090	0.1246	0.3265	0.1242	0.3434
310671 *	89	CENTURY TEL. MIDWEST	29,365	7,952	6,069	36,154	0.1694	0.3063	0.1694	0.3153
310702	89	CENTURY OF MICHIGAN	233,510	163,462	47,582	444,554	0.1072	0.2263	0.1070	0.1871
310685	89	CHATHAM TEL CO - MI	17,747	6,075	2,723	26,545	0.1026	0.2430	0.1026	0.2232
310680	89	CHIPPEWA COUNTY TEL	3,336	2,797	1,070	7,203	0.1486	0.2568	0.1486	0.2880
310713	89	HIAWATHA TEL CO	22,128	11,805	6,063	39,996	0.1473	0.2754	0.1516	0.2833
310711	89	MIDWAY TEL CO	2,802	1,808	913	5,523	0.1653	0.2716	0.1653	0.3186
310714	89	OGDEN TEL CO	3,034	1,155	849	5,037	0.1685	0.3516	0.1685	0.3788
310717	89	ONTONAGON COUNTY TEL	30,214	7,938	6,237	44,389	0.1411	0.2795	0.1405	0.3155
310721	89	PIGEON TEL CO	10,470	11,166	2,126	23,762	0.0900	0.2085	0.0895	0.1779
310728	89	SPRINGPORT TEL CO	6,965	7,508	1,201	15,675	0.0766	0.2235	0.0766	0.1850
310732	89	UPPER PENINSULA TEL	18,965	13,854	6,948	39,767	0.1750	0.3160	0.1747	0.3758
310737	89	WINN TEL CO	1,832	3,791	1,323	6,947	0.1905	0.4423	0.1905	0.4168
310738	89	WOLVERINE TEL CO	66,424	32,482	6,665	105,571	0.0634	0.1962	0.0631	0.1432
361346	89	ACE TEL ASSN-MN	67,550	20,524	30,686	118,760	0.2577	0.2547	0.2584	0.4438
361374	89	ARROWHEAD COMM CORP	2,029	1,905	682	4,615	0.1477	0.2635	0.1477	0.2787
361350	89	ARVIG TEL CO	43,621	18,139	14,148	75,908	0.1850	0.3069	0.1864	0.3662
361370	89	CLARA CITY TEL EXCH	8,568	4,362	1,955	14,886	0.1304	0.2704	0.1313	0.2991
361140	89	CONTEL OF MINNESOTA	761,759	304,176	152,929	1,218,864	0.1234	0.2292	0.1255	0.1679
361385	89	EAST OTTER TAIL TEL	104,060	44,648	27,397	176,105	0.1556	0.2611	0.1556	0.2627
361395	89	GARDEN VALLEY TEL CO	96,386	40,121	16,283	152,789	0.1066	0.2422	0.1066	0.2176
361410	89	JOHNSON TEL CO	5,846	2,697	1,549	10,092	0.1525	0.2821	0.1535	0.3270
361414	89	LAKEDALE TEL CO	57,222	39,420	8,304	104,946	0.0752	0.2111	0.0791	0.1769
361433	89	MID STATE TEL CO	40,716	13,281	5,253	59,251	0.0887	0.2199	0.0887	0.1912
361442	89	NEW ULM TELECOM, INC	72,814	22,558	13,608	108,980	0.1123	0.2552	0.1249	0.2806
361451	89	PAUL BUNYAN RURAL	43,632	12,701	7,523	63,856	0.1178	0.2420	0.1178	0.2481
361483	89	SLEEPY EYE TEL CO	36,519	16,682	6,215	59,416	0.0957	0.2095	0.1045	0.2010
361491	89	TWIN VALLEY-ULEN TEL	20,644	6,922	4,502	32,069	0.1404	0.2288	0.1404	0.2649
280453	89	ALLTEL MISSISSIPPI	140,005	16,677	12,078	168,761	0.0712	0.2698	0.0715	0.2239
280446	89	BAY SPRINGS TEL CO	122,634	20,518	11,346	154,498	0.0734	0.2232	0.0734	0.1846
280452	89	DELTA TEL CO	38,477	5,679	5,091	49,247	0.1034	0.2609	0.1034	0.2251
280454	89	FRANKLIN TEL CO - MS	66,139	15,325	9,755	91,219	0.1069	0.2261	0.1069	0.2187
280456 *	89	GEORGETOWN TEL CO	29,365	7,952	6,069	36,154	0.1694	0.3063	0.1694	0.3153
280458	89	HOME TEL CO-OLIVE BR	101,808	11,763	43,451	157,023	0.2761	0.4457	0.2767	0.5664
280459	89	HUGHES TEL CO	84,888	6,278	8,535	99,701	0.0856	0.2155	0.0855	0.1916
280461	89	SOUTHEAST MS TEL CO	36,806	7,440	6,931	51,178	0.1356	0.2870	0.1354	0.3922
421885	89	ALLTEL MISSOURI	190,972	72,529	43,120	306,621	0.1406	0.2453	0.1405	0.2464
421865	89	CITIZENS TEL CO - MO	21,509	11,046	4,207	36,762	0.1144	0.2428	0.1144	0.2475
421922	89	CONTEL OF MISSOURI	1,199,318	546,010	363,370	2,108,697	0.1723	0.2672	0.1723	0.2260
421846	89	CONTINENTAL SYS. -MO	327,820	105,888	72,382	506,089	0.1430	0.2959	0.1430	0.2709
421873	89	EASTERN MISSOURI TEL	14,752	10,102	3,574	28,428	0.1247	0.2175	0.1257	0.2165
421882	89	FIDELITY TEL CO	69,128	33,225	13,089	115,441	0.1134	0.2318	0.1134	0.2359
421886	89	GOODMAN TEL CO	5,954	4,593	3,110	13,657	0.2277	0.3505	0.2277	0.4199
421888	89	GRAND RIVER MUT-MO	103,663	30,067	18,583	152,313	0.1220	0.2474	0.1220	0.2315
421929	89	HOLWAY TEL CO	5,206	1,709	539	7,454	0.0723	0.2686	0.0723	0.2047
421901	89	KINGDOM TELEPHONE CO	18,806	12,809	5,782	37,398	0.1546	0.3308	0.1546	0.3231
421908	89	LE-RU TELEPHONE CO	5,274	2,640	2,611	10,526	0.2481	0.3834	0.2481	0.4995
421904	89	MISSOURI TEL CO	131,046	35,531	27,351	193,928	0.1389	0.2378	0.1410	0.2443
421807	89	MOKAN DIAL INC-MO	3,435	2,922	1,107	7,464	0.1483	0.2445	0.1483	0.2652
421931	89	NE MISSOURI RURAL	26,194	9,624	6,070	41,888	0.1449	0.2707	0.1449	0.2983
421934	89	ORCHARD FARM TEL CO	2,008	4,612	983	7,603	0.1293	0.2488	0.1293	0.2178
421951	89	STOUTLAND TEL CO	6,780	3,102	1,283	11,166	0.1149	0.2683	0.1149	0.2376
482235	89	BLACKFOOT TEL COOP	24,280	20,130	10,109	54,519	0.1854	0.4009	0.1854	0.4549
482241	89	HOT SPRINGS TEL CO	2,335	1,389	704	4,428	0.1591	0.4091	0.1591	0.4007
482242	89	INTERBEL TEL COOP	7,139	1,812	2,652	11,603	0.2286	0.4310	0.2285	0.5075
482244	89	LINCOLN TEL CO INC	2,964	2,112	1,176	6,252	0.1881	0.4005	0.1881	0.4540
482246	89	MID-RIVERS TEL COOP	47,785	20,212	9,676	77,673	0.1246	0.2945	0.1245	0.2930
482247	89	NEMONT TEL COOP-MT	9,519	8,640	4,964	23,123	0.2158	0.3321	0.2147	0.4533

TABLE 4.7

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FCODE	YEAR	CARRIER	LOC DEM	ST DEM	IS DEM	TOT DEM	IS SLU	IS SPF	IS DEM	TR DEM
482248	89	NORTHERN TEL COOP	7,424	5,910	3,593	16,927	0.2122	0.4054	0.2122	0.5173
482249	89	NW TEL SYSTEMS, INC.	271,645	83,118	101,558	456,322	0.2226	0.3606	0.2226	0.4124
482250	89	PROJECT TEL CO	13,228	9,737	6,390	29,355	0.2217	0.3276	0.2177	0.4343
482251	89	RANGE TEL COOP-MT	18,918	9,306	6,471	34,695	0.1865	0.3759	0.1865	0.4315
482254	89	SOUTHERN MONTANA TEL	2,736	2,558	1,578	6,872	0.2297	0.5215	0.2297	0.6253
482255	89	3-RIVERS TEL COOP	50,570	26,966	17,525	95,061	0.1844	0.3692	0.1844	0.4345
482257	89	TRIANGLE TEL COOP	58,587	30,454	12,762	101,804	0.1254	0.3003	0.1254	0.3043
482258	89	VALLEY RURAL TEL	3,731	2,445	1,026	7,202	0.1424	0.5318	0.1424	0.4891
371516	89	ARAPAHOE TEL CO	6,071	2,748	1,452	10,272	0.1414	0.2895	0.1414	0.3309
371517	89	ARLINGTON TEL CO	6,067	3,695	1,440	11,201	0.1336	0.2758	0.1285	0.2636
372455	89	BENKELMAN TEL CO	7,948	1,726	2,065	11,739	0.1737	0.3446	0.1759	0.4346
371524	89	BLAIR TEL CO	48,295	15,030	12,550	75,876	0.1654	0.2888	0.1654	0.3514
371526	89	CAMBRIDGE TEL CO -NE	6,833	2,867	1,793	11,493	0.1560	0.4216	0.1560	0.4681
371531	89	CLARKS TEL CO	5,126	2,905	1,281	9,311	0.1376	0.2161	0.1376	0.2280
371534	89	COZAD TEL CO	15,610	6,990	4,399	26,999	0.1629	0.2905	0.1629	0.3481
371536	89	CURTIS TEL CO	4,961	2,170	1,091	8,222	0.1327	0.2130	0.1327	0.2311
371537	89	DALTON TEL CO, INC	7,352	3,942	2,622	13,917	0.1884	0.3740	0.1884	0.4189
371540	89	DILLER TEL CO	4,286	2,598	1,080	7,965	0.1356	0.2849	0.1356	0.2821
371542	89	EASTERN NEBRASKA TEL	15,659	7,040	4,730	27,429	0.1724	0.3076	0.1724	0.3560
371577	89	GREAT PLAINS COMMUN	168,969	67,306	40,287	276,562	0.1457	0.2653	0.1457	0.2529
371557	89	HARTMAN TEL EXCH INC	2,342	999	1,283	4,624	0.2774	0.3914	0.2774	0.5232
371558	89	HEMINGFORD COOP TEL	9,555	1,325	1,668	12,548	0.1330	0.2712	0.1330	0.2915
371567	89	KEYSTONE-ARTHUR TEL	899	925	770	2,594	0.2967	0.4680	0.2967	0.5696
371574	89	NEBRASKA CENTRAL TEL	43,941	16,220	8,984	69,145	0.1296	0.2295	0.1299	0.2603
371580	89	PETERSBURG TEL CO	2,532	1,481	415	4,429	0.0938	0.2356	0.0938	0.1867
371586	89	ROCK COUNTY TEL CO	8,254	3,241	1,620	13,115	0.1235	0.2716	0.1235	0.2693
371591	89	SE NEBRASKA TEL CO	33,705	5,707	11,912	51,324	0.2321	0.2874	0.2321	0.4414
371592	89	STANTON TEL CO, INC	7,186	3,081	2,385	12,652	0.1885	0.2144	0.1885	0.2883
371525	89	THREE RIVER TELCO	7,229	3,110	2,321	12,660	0.1833	0.3253	0.1833	0.3842
371597	89	WAUNETA TEL CO	4,212	1,842	1,167	7,221	0.1616	0.3154	0.1616	0.3754
552284	89	BEEHIVE TEL CO - NV	700	363	441	1,504	0.2934	0.5450	0.2934	0.7224
552304	89	CP NATIONAL-NV	99,079	19,694	57,334	176,107	0.3246	0.5350	0.3256	0.7188
552349	89	CHURCHILL COUNTY TEL	71,220	12,476	29,608	113,305	0.2613	0.4480	0.2613	0.6264
552302	89	CONTEL OF CALIF-NV	117,397	36,435	105,729	259,561	0.3858	0.5400	0.4073	0.8172
552223	89	GEM STATE UTIL-NV	2,059	704	1,309	4,072	0.3214	0.6000	0.3214	0.7000
552351	89	LINCOLN CTY TEL SYS	7,634	4,655	4,236	16,525	0.2563	0.4605	0.2563	0.5624
552353	89	MOAPA VALLEY TEL CO.	19,174	4,320	5,717	29,211	0.1957	0.5053	0.1957	0.5683
552354	89	NEVADA TEL-TELEGRAPH	15,640	5,001	10,819	31,460	0.3460	0.5500	0.3439	0.7896
552356	89	RIO VIRGIN TEL CO	6,364	1,770	5,886	14,020	0.4198	0.5400	0.4198	0.8500
552233	89	RURAL TEL CO - NV	875	1,738	1,998	4,611	0.4333	0.5500	0.4333	0.8054
120038	89	BRETTON WOODS TEL CO	559	524	949	2,031	0.4642	0.5500	0.4670	0.8486
120040	89	CHICHESTER TEL CO	6,382	3,487	2,004	11,873	0.1673	0.3952	0.1688	0.4728
120041	89	CONTEL OF NH	53,185	23,617	31,231	108,034	0.2888	0.4542	0.2891	0.6520
120039	89	GRANITE STATE TEL	36,043	17,781	21,271	75,095	0.2833	0.3615	0.2833	0.5552
120045	89	KEARSARGE TEL CO	23,115	18,937	17,566	59,617	0.2946	0.4978	0.2945	0.6824
120046	89	MERIDEN TEL CO	1,700	1,028	1,969	4,698	0.4192	0.6300	0.4192	0.8023
120047	89	MERRIMAK COUNTY TEL	52,441	22,352	21,749	96,543	0.2222	0.4146	0.2253	0.5529
120049	89	UNION TEL CO	23,285	12,851	13,373	49,508	0.2700	0.6400	0.2701	0.6400
120050	89	WILTON TEL CO - NH	14,893	7,308	9,800	32,002	0.2780	0.5350	0.3062	0.6683
160135	89	WARWICK VALLEY-NJ	36,271	51,178	20,572	108,021	0.1904	0.3189	0.1904	0.4134
492259	89	BACA VALLEY TEL CO	3,110	1,282	1,455	5,847	0.2488	0.4638	0.2488	0.5294
492177	89	CONTEL OF WEST - NM	177,584	71,514	61,254	310,353	0.1974	0.3457	0.1974	0.3860
492066	89	DELL TEL CO-OP - NM	985	609	763	2,357	0.3238	0.5500	0.3238	0.7024
492262	89	ENMR TEL COOP INC-NM	67,457	19,410	35,197	122,064	0.2884	0.3606	0.2884	0.5237
492263	89	LA JICARITA RURAL	16,801	3,540	2,162	22,503	0.0961	0.2544	0.0961	0.2436
492264	89	LEACO RURAL TEL COOP	4,591	2,621	2,375	9,587	0.2505	0.4271	0.2477	0.5596
492275	89	NAVAJO COMMUN - NM	10,252	9,079	11,227	30,558	0.3674	0.5284	0.3674	0.7307
492270	89	PENASCO VALLEY TEL	10,041	5,324	4,184	19,550	0.2140	0.4322	0.2140	0.4776
492272	89	ROOSEVELT CNTY RURAL	13,477	3,370	3,789	20,637	0.1836	0.3064	0.1835	0.3868
492274	89	UNIVERSAL TEL OF SW	20,644	8,943	7,474	37,061	0.2017	0.3701	0.2017	0.4108
492176	89	VALLEY TEL COOP - NM	7,483	2,551	4,462	14,497	0.3089	0.4442	0.3078	0.5904
492268	89	WESTERN NEW MEXICO	27,243	10,459	12,177	49,879	0.2444	0.4146	0.2441	0.5371
150106	89	ALLTEL NY-FULTON	546,559	85,517	81,557	713,633	0.1134	0.2164	0.1143	0.1770
150109	89	ALLTEL NY-JAMESTOWN	512,249	74,931	107,127	694,306	0.1518	0.2496	0.1543	0.2518
150113	89	ALLTEL NY-RED JACKET	19,963	8,811	2,971	31,745	0.0936	0.2297	0.0936	0.1927
150072	89	AU SABLE VALLEY TEL	28,097	19,339	9,839	57,275	0.1718	0.2897	0.1718	0.3165
150077	89	CHAMPLAIN TEL CO	34,441	9,986	12,992	57,420	0.2130	0.3952	0.2265	0.5269

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150078	89	CHAUTAUQUA & ERIE	70,135	25,057	22,766	117,958	0.1930	0.3427	0.1930	0.4286
150081	89	CITIZENS HAMMOND NY	4,493	3,773	1,007	9,272	0.1086	0.2370	0.1086	0.2206
150082	89	CLYMER TEL CO	5,987	2,495	3,331	11,812	0.2793	0.4048	0.2820	0.5409
150085	89	CROWN POINT TEL CORP	5,890	2,964	1,360	10,214	0.1332	0.2588	0.1332	0.2828
150091	89	DUNKIRK & FREDONIA	91,503	22,759	10,695	124,957	0.0856	0.2439	0.0856	0.2222
150092	89	EDWARDS TEL CO	9,840	7,242	1,495	18,577	0.0805	0.2153	0.0805	0.1680
150093	89	EMPIRE TEL CORP	32,634	23,115	11,163	66,913	0.1668	0.2569	0.1668	0.3051
150097	89	GERMANTOWN TEL CO	10,939	9,290	3,240	23,468	0.1380	0.2694	0.1380	0.2618
150099	89	HANCOCK TEL CO	8,159	4,411	2,840	15,409	0.1843	0.2784	0.1843	0.3652
150100	89	HIGHLAND TEL CO	504,587	267,352	193,648	965,587	0.2005	0.2773	0.2005	0.3168
150105	89	MIDDLEBURGH TEL CO	25,525	21,191	6,697	53,412	0.1254	0.2273	0.1254	0.2224
150108	89	NICHOLVILLE TEL CO	12,407	4,311	2,146	18,865	0.1137	0.2255	0.1138	0.2234
150110	89	OGDEN TEL CO	241,667	27,806	29,131	298,604	0.0977	0.2172	0.0976	0.1742
150116	89	PATTERSONVILLE TEL	13,585	4,090	3,003	20,678	0.1452	0.3784	0.1452	0.4262
150119	89	RED HOOK TEL CO	102,378	51,365	27,733	181,476	0.1528	0.2735	0.1528	0.2966
150122	89	SENECA-GORHAM TEL	43,302	38,099	13,425	94,826	0.1416	0.2259	0.1416	0.2770
150128	89	SYLVAN LAKE TEL CO	183,495	74,446	47,607	305,548	0.1558	0.2692	0.1558	0.3014
150084	89	TACONIC TEL CORP	127,621	59,420	38,144	225,185	0.1686	0.3127	0.1694	0.3518
150133	89	VERNON TEL CO	19,634	7,547	3,963	31,144	0.1272	0.2547	0.1272	0.2706
150135	89	WARWICK VALLEY-NY	75,831	47,472	34,244	157,547	0.2174	0.3189	0.2174	0.4050
150136	89	WESTERN COUNTIES TEL	156,793	72,425	46,480	275,698	0.1674	0.2455	0.1686	0.2540
230476	89	ALLTEL CAROLINA-NO	1,233,055	214,021	221,105	1,668,181	0.1330	0.2257	0.1325	0.1719
230468	89	ATLANTIC MEMBERSHIP	161,996	35,380	29,518	226,894	0.1294	0.2348	0.1301	0.2430
230469	89	BARNARDVILLE TEL CO	13,244	1,114	1,305	15,663	0.0833	0.2239	0.0833	0.1733
230473	89	CITIZENS TEL CO	152,500	24,688	35,690	212,878	0.1671	0.2491	0.1677	0.2867
230474	89	CONCORD TEL CO	873,458	148,809	128,104	1,150,371	0.0998	0.1973	0.1114	0.1308
230509	89	CONTEL OF NC	1,025,307	178,350	196,357	1,400,014	0.1382	0.2689	0.1403	0.2303
230481	89	HEINS TEL CO	152,552	57,005	39,576	249,133	0.1588	0.2270	0.1589	0.2284
230502	89	STAR MEMBERSHIP CORP	147,264	36,262	17,723	201,249	0.0881	0.1862	0.0881	0.1507
230510	89	WILKES MEMBERSHIP	125,682	11,079	6,147	142,907	0.0423	0.1672	0.0430	0.0940
381607	89	CONSOLIDATED COOP	39,583	10,178	7,020	56,781	0.1258	0.2961	0.1235	0.3057
381447	89	CONTEL OF N. DAKOTA	92,351	22,737	16,159	131,247	0.1235	0.2706	0.1231	0.2932
381616	89	INTER-COMMUNITY TEL	9,515	4,188	1,916	15,619	0.1227	0.2320	0.1227	0.2406
381617	89	MIDSTATE TEL CO	8,861	3,877	3,259	15,997	0.2037	0.3441	0.2037	0.4469
381630	89	POLAR COMM MUT AID	83,906	19,383	16,446	119,735	0.1374	0.2480	0.1374	0.2804
381632	89	RESERVATION TEL COOP	31,407	11,251	7,352	50,010	0.1470	0.2994	0.1470	0.3228
381634	89	SOURIS RIVER TEL MUT	96,352	27,462	34,741	158,555	0.2205	0.3520	0.2191	0.4229
381637	89	W. RIVER MUTUAL AID	79,145	20,059	15,626	114,830	0.1361	0.3142	0.1361	0.3315
300665	89	ALLTEL OHIO-WEST OH	161,876	52,394	30,004	244,274	0.1228	0.2260	0.1228	0.2215
300682	89	C, C & S TELCO -OHIO	2,326	1,289	939	4,553	0.2062	0.2681	0.2062	0.3264
300597	89	THE CHILLICOTHE TEL	412,116	56,676	30,757	499,548	0.0595	0.1929	0.0616	0.1181
300607	89	CONTEL OF OHIO	19,104	4,889	2,526	26,519	0.0952	0.2060	0.0952	0.1900
300620	89	HARLAN TEL CO	7,831	2,594	1,315	11,740	0.1120	0.3081	0.1120	0.2935
300613	89	LITTLE MIAMI COMM.	11,416	3,494	1,696	16,606	0.1021	0.2001	0.1021	0.1831
431965	89	ALLTEL OKLAHOMA INC	74,482	49,494	21,548	145,524	0.1483	0.2976	0.1481	0.2697
431966	89	ATLAS TEL CO	8,673	5,171	3,608	17,452	0.2067	0.4396	0.2067	0.4592
431974	89	CANADIAN VALLEY TEL	2,762	2,842	1,213	6,817	0.1779	0.3201	0.1779	0.3189
431976	89	CARNEGIE TEL CO INC	10,871	4,885	2,066	17,821	0.1159	0.2603	0.1159	0.2678
431979	89	CHEROKEE TEL CO	33,331	10,653	12,207	56,191	0.2170	0.3386	0.2172	0.4459
431980	89	CHICKASAW TEL CO	43,211	30,732	13,545	87,487	0.1553	0.2906	0.1543	0.3219
431981	89	CHOUTEAU TEL CO	16,746	9,792	4,784	31,323	0.1527	0.2841	0.1527	0.3090
431985	89	CROSS TEL CO	51,343	27,716	11,880	90,938	0.1306	0.2645	0.1306	0.2689
431988	89	DOBSON TEL CO	33,445	12,213	6,917	52,575	0.1316	0.3290	0.1315	0.3173
431994	89	GRAND TEL CO INC	13,875	7,419	4,153	25,447	0.1639	0.3712	0.1632	0.4374
431995	89	HINTON TEL CO	20,789	10,463	3,948	35,200	0.1123	0.2335	0.1122	0.2220
431788	89	KANOKLA TEL ASSN-OK	6,292	3,264	2,463	12,019	0.2049	0.3075	0.2049	0.3981
432006	89	M-CLOUD TEL CO	98,914	17,502	10,053	126,469	0.0795	0.2193	0.0795	0.1790
432011	89	OKLAHOMA ALLTEL, INC	104,208	37,862	27,029	169,099	0.1601	0.2880	0.1598	0.3331
431984	89	OKLAHOMA COMM SYSTEM	111,100	49,148	22,907	183,154	0.1248	0.2434	0.1251	0.2269
432013	89	OKLAHOMA TEL & TEL	11,231	6,996	2,333	20,560	0.1135	0.2676	0.1135	0.2657
432014	89	OKLAHOMA WESTERN TEL	16,251	7,850	4,192	28,293	0.1484	0.3264	0.1482	0.3248
432016	89	PANHANDLE TEL COOP	23,239	15,771	14,976	53,986	0.2833	0.4341	0.2774	0.5922
432018	89	PIONEER TEL COOP INC	287,957	124,558	45,590	458,105	0.0987	0.2635	0.0995	0.2206
432020	89	POTTAWATOMIE TEL CO	10,983	7,170	2,535	20,688	0.1225	0.2539	0.1225	0.2471
431831	89	S. CENTRAL TEL - OK	1,594	1,111	976	3,680	0.2652	0.3454	0.2652	0.5013
432030	89	TOTAH TELEPHONE CO	7,160	8,984	3,365	19,509	0.1725	0.3005	0.1725	0.3306
432032	89	VALLIANT TEL CO	18,696	6,001	4,123	28,819	0.1431	0.3045	0.1431	0.3309

TABLE 4.7

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DIAL EQUIPMENT MINUTES (IN THOUSANDS) & FACTORS

FCODE	YEAR	CARRIER	LOC DEM	ST DEM	IS DEM	TOT DEM	IS SLU	IS SPF	IS DEM	TR DEM
432034	89	WYANDOTTE TEL CO	1,421	1,322	1,472	4,215	0.3492	0.5293	0.3492	0.6394
532404	89	ASOTIN TEL - OR	299	297	252	847	0.2974	0.5500	0.2974	0.6552
532359	89	BEAVER CREEK COOP	37,289	10,498	5,788	53,575	0.0955	0.2533	0.1080	0.2522
532304	89	C P NATIONAL CORP-OR	56,982	34,454	17,824	109,260	0.1631	0.3799	0.1631	0.4227
532362	89	CANBY TEL ASSN	58,829	25,364	14,465	98,659	0.1466	0.2748	0.1466	0.3102
532371	89	CASCADE UTIL INC	70,059	20,470	12,987	103,516	0.1255	0.2856	0.1255	0.3009
532363	89	CLEAR CREEK MUTUAL	35,202	7,428	6,437	49,067	0.1188	0.2518	0.1312	0.2731
532364	89	COLTON TEL CO	7,263	4,144	1,929	13,336	0.1447	0.2922	0.1447	0.3064
532449	89	CONTEL OF THE NW- OR	181,726	83,473	41,455	306,653	0.1352	0.2799	0.1352	0.2562
532376	89	HELIX TEL CO.	437	1,102	539	2,078	0.2595	0.3598	0.2595	0.4714
532377	89	HOME TELEPHONE CO	2,395	1,782	599	4,776	0.1253	0.2941	0.1253	0.2690
532456	89	MALHEUR HOME TEL CO	114,210	13,806	36,250	164,266	0.2163	0.3578	0.2207	0.4014
532226	89	MIDVALE TEL EXCH -OR	761	584	497	1,842	0.2699	0.3751	0.2699	0.5357
532383	89	MOLALLA TEL CO.	40,493	19,312	7,693	67,497	0.1140	0.2550	0.1140	0.2590
532385	89	MONROE TELEPHONE CO.	3,242	3,333	1,246	7,821	0.1593	0.3384	0.1593	0.3725
532387	89	NEHALEM TEL & TEL	7,077	5,558	2,796	15,431	0.1812	0.3587	0.1812	0.4345
532388	89	NORTH STATE TEL CO.	1,642	1,597	813	4,051	0.2006	0.3222	0.2006	0.3671
532389	89	OREGON TEL CORP	6,037	6,792	3,092	15,922	0.1942	0.3491	0.1942	0.3882
532392	89	PINE TEL SYSTEM INC.	3,416	1,623	1,684	6,723	0.2505	0.4453	0.2505	0.5759
532393	89	PIONEER TEL COOP	62,210	30,122	17,523	109,855	0.1595	0.3326	0.1595	0.3599
532375	89	RTI/HALSEY TEL CO	3,120	3,650	2,015	8,784	0.2294	0.3404	0.2294	0.5229
532397	89	SCIO MUTUAL TEL ASSN	8,712	5,749	2,426	16,886	0.1436	0.2468	0.1436	0.2781
532361	89	TEL UTIL OF OREGON	247,654	151,787	97,331	496,772	0.1959	0.3291	0.1959	0.3418
532378	89	TRANS-CASCADES TEL	447	457	188	1,092	0.1723	0.3807	0.1723	0.3919
170170	89	CONTEL OF PA	498,273	157,647	104,176	760,097	0.1318	0.2559	0.1371	0.2445
170177	89	LACKAWAXEN TEL CO	6,951	4,803	6,822	18,576	0.3672	0.5268	0.3672	0.8027
170183	89	MAHANOY & MAHANTONGO	22,141	10,967	2,374	35,482	0.0674	0.2091	0.0669	0.1610
170192	89	NORTH PENN TEL CO	26,247	9,021	10,638	45,906	0.2313	0.2946	0.2317	0.4413
170194	89	OSWAYO RIVER TEL CO	11,719	3,068	5,543	20,330	0.2727	0.3605	0.2727	0.5132
170201	89	QUAKER STATE TEL CO	266,588	70,733	71,537	408,859	0.1726	0.2828	0.1750	0.3057
170206	89	SUGAR VALLEY TEL CO	5,405	2,745	1,515	9,665	0.1576	0.2556	0.1568	0.3047
633200	89	PUERTO RICO COMM	987,579	332,965	125,812	1,446,357	0.0867	0.2347	0.0870	0.1478
240512	89	BLUFFTON TEL. CO.	11,476	6,396	13,174	31,045	0.4270	0.4507	0.4243	0.7318
240526	89	CONTEL OF SC	218,540	27,021	42,198	287,759	0.1457	0.2685	0.1466	0.2957
240520	89	FARMERS TEL COOP	581,625	84,287	108,743	774,655	0.1394	0.2646	0.1404	0.2568
240523	89	HARGRAY TEL CO	235,948	45,558	158,608	440,113	0.3571	0.4854	0.3604	0.6021
240528	89	HORRY TEL COOP	400,447	66,146	139,537	606,130	0.2305	0.2720	0.2302	0.3467
240533	89	MCCLELLANVILLE TEL	10,275	4,737	2,569	17,580	0.1461	0.2857	0.1461	0.3067
240539	89	POND BRANCH TEL CO	76,232	21,394	10,333	107,959	0.0959	0.2189	0.0957	0.1965
240551	89	WILLISTON TEL CO	40,467	10,787	5,498	56,752	0.0962	0.2271	0.0969	0.2120
391647	89	CHEYENNE RIVER SIOUX	24,321	4,426	4,653	33,400	0.1393	0.2746	0.1393	0.2754
391643	89	CONTEL OF S. DAKOTA	61,285	23,849	21,839	106,973	0.2044	0.3217	0.2042	0.4056
391659	89	GOLDEN WEST TELECOMM	99,396	24,134	27,904	151,434	0.1841	0.3278	0.1843	0.3625
391666	89	JEFFERSON TEL CO -SD	1,546	712	2,179	4,437	0.4912	0.5400	0.4912	0.8500
391667	89	KADOKA TELEPHONE CO	2,809	1,346	1,181	5,336	0.2218	0.5113	0.2213	0.5137
391668	89	KENNEBEC TEL CO	1,183	977	527	2,687	0.1962	0.2767	0.1962	0.3353
391689	89	WEST RIVER COOP	16,168	3,125	3,607	22,899	0.1576	0.2910	0.1575	0.3317
290552	89	ADAMSVILLE TEL CO	72,665	8,421	12,204	93,290	0.1306	0.2464	0.1308	0.2699
290571	89	MILLINGTON TEL CO	274,607	27,349	50,843	352,799	0.1462	0.3204	0.1441	0.2819
290575	89	TENNESSEE TEL CO	588,961	59,864	81,695	730,519	0.1120	0.2121	0.1113	0.1815
290579	89	TWIN LAKES TEL COOP	299,164	41,009	36,422	376,595	0.0967	0.2126	0.0967	0.1689
442121	89	ALLTEL TEXAS INC	19,245	9,898	3,916	33,059	0.1186	0.2530	0.1184	0.2288
442039	89	BIG BEND TEL CO INC	11,718	9,709	5,530	26,958	0.2051	0.3307	0.2051	0.4206
442040	89	BRAZORIA TEL CO	55,621	18,215	5,275	79,111	0.0673	0.1968	0.0667	0.1481
442041	89	BRAZOS TEL COOP INC	1,209	5,235	931	7,375	0.1262	0.2069	0.1262	0.2144
440425	89	CAMERON TEL CO TEXAS	3,230	3,667	1,179	8,076	0.1460	0.2402	0.1460	0.2272
442046	89	CAP ROCK TEL CO INC	12,447	9,992	2,316	24,755	0.0936	0.2090	0.0935	0.1837
442052	89	CENTRAL TEXAS CO-OP	21,547	12,135	2,765	36,447	0.0759	0.1968	0.0759	0.1397
442059	89	COLORADO VALLEY TEL	24,409	16,081	4,176	44,666	0.0936	0.1950	0.0935	0.1784
442066	89	DELL TEL. CO-OP - TX	2,867	1,679	1,447	5,993	0.2414	0.3942	0.2414	0.5021
442262	89	ENMR TEL COOP-TX	6,274	1,525	1,066	8,866	0.1204	0.2761	0.1203	0.2733
442068	89	EASTEX TEL COOP INC	149,522	68,980	26,663	245,164	0.1088	0.2277	0.1083	0.1927
442070	89	ETEX TEL COOP INC	75,109	41,411	13,537	130,057	0.1041	0.2040	0.1041	0.1935
442071	89	FIVE AREA TEL CO-OP	11,338	5,418	2,649	19,405	0.1366	0.2577	0.1363	0.2657
442072	89	FORT BEND TEL CO	223,487	45,211	32,119	300,817	0.1075	0.2651	0.1063	0.2414
442076	89	GANADO TELEPHONE CO	9,085	5,938	831	15,855	0.0527	0.1805	0.0524	0.1086
442083	89	GUADALUPE VALLEY TEL	71,470	85,128	25,697	182,294	0.1411	0.2394	0.1410	0.2377

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442086	89	HILL COUNTRY CO-OP	44,253	34,311	12,367	90,931	0.1360	0.2502	0.1360	0.2730
442093	89	INDUSTRY TEL CO	5,843	5,896	1,043	12,782	0.0821	0.1914	0.0816	0.1327
442097	89	KERRVILLE TEL CO	116,562	48,393	24,425	189,380	0.1260	0.2950	0.1290	0.2681
442103	89	LA WARD TEL EXCHANGE	2,069	4,222	841	7,132	0.1179	0.2082	0.1179	0.1793
442101	89	LAKE DALLAS TEL CO	11,485	29,936	11,589	53,011	0.2186	0.3154	0.2186	0.4350
442104	89	LAKE LIVINGSTON TEL	2,168	2,386	729	5,283	0.1384	0.2911	0.1381	0.2491
442109	89	LUFKIN-CONROE TEL EX	696,973	248,665	121,771	1,067,409	0.1119	0.2488	0.1141	0.1880
442112	89	MID-PLAINS RURAL TEL	10,656	9,844	3,317	23,817	0.1396	0.2231	0.1393	0.2337
442116	89	MUENSTER TEL CORP-TX	14,045	11,608	2,911	28,563	0.1021	0.2223	0.1019	0.2128
442117	89	MUSTANG TEL CO	5,479	8,635	4,930	19,044	0.2589	0.5355	0.2589	0.6368
442130	89	PEOPLES TEL COOP -TX	45,297	25,869	8,686	79,853	0.1088	0.2060	0.1088	0.2014
442131	89	POKA-LAMBRO TEL COOP	14,987	14,869	5,362	35,217	0.1524	0.1945	0.1523	0.2082
442134	89	RIVIERA TEL CO INC	3,697	3,432	1,230	8,358	0.1471	0.2397	0.1471	0.2450
442136	89	ROMAIN TELEPHONE CO	6,112	2,874	1,603	10,589	0.1514	0.2692	0.1514	0.2992
442135	89	SOUTHWEST TEXAS TEL	16,024	14,150	3,676	33,850	0.1087	0.2156	0.1086	0.1699
442147	89	SUGAR LAND TEL CO	501,123	52,824	66,583	620,530	0.1033	0.2717	0.1073	0.2301
442150	89	TATUM TEL CO	4,272	3,700	903	8,874	0.1017	0.2724	0.1017	0.1524
442151	89	TAYLOR TEL CO-OP INC	38,877	20,909	7,672	67,458	0.1138	0.2044	0.1137	0.2101
442153	89	TEXAS-MIDLAND TEL	56,509	44,502	12,376	113,387	0.1092	0.2137	0.1092	0.1826
442155	89	TRI-COUNTY TEL - TX	5,209	3,262	802	9,273	0.0869	0.2046	0.0865	0.1493
442156	89	TRINITY VALLEY TEL	46,533	19,842	7,083	73,458	0.0964	0.2470	0.0964	0.2213
442159	89	VALLEY TEL CO-OP -TX	26,268	22,521	4,893	53,682	0.0912	0.2196	0.0911	0.1775
442163	89	WATERWOOD COMM INC	143	1,519	619	2,281	0.2715	0.5009	0.2715	0.5797
442168	89	WES-TEX TEL CO-OP	26,585	11,949	3,155	41,690	0.0757	0.1989	0.0757	0.1650
442166	89	WEST TEXAS RURAL TEL	11,501	7,745	4,088	23,334	0.1752	0.2979	0.1752	0.3402
442170	89	XIT RURAL TEL CO-OP	345	4,627	6,145	11,117	0.5528	0.3639	0.5528	0.7405
502284	89	BEEHIVE TEL CO - UT	8,429	1,706	938	11,073	0.0847	0.2244	0.0847	0.2051
502277	89	CENTRAL UTAH TEL INC	7,662	2,388	1,233	11,283	0.1093	0.2226	0.1093	0.2110
502177	89	CONTEL THE WEST - UT	128,928	36,391	38,918	204,237	0.1906	0.3217	0.1906	0.3912
502278	89	EMERY COUNTY FARMERS	29,091	7,691	3,279	40,060	0.0818	0.2569	0.0818	0.2298
502280	89	KAMAS-WOODLAND TEL	9,249	4,710	2,073	16,032	0.1293	0.2483	0.1293	0.2721
502275	89	NAVAJO COMMUN - UT	847	567	1,600	3,014	0.5307	0.5500	0.5307	0.8500
502286	89	SOUTH CENTRAL UTAH	21,325	6,161	6,331	33,817	0.1872	0.3515	0.1872	0.4270
502287	89	UINTAH BASIN TEL	18,105	12,831	3,735	34,671	0.1077	0.2771	0.1077	0.2728
502288	89	UT-WY TELECOM	3,563	1,029	959	5,552	0.1728	0.4264	0.1728	0.4550
140070	89	CONTEL OF VERMONT	188,749	74,600	82,220	345,569	0.2343	0.4090	0.2379	0.4888
140058	89	LUDLOW TEL CO	12,678	6,567	10,077	29,322	0.3437	0.3813	0.3437	0.6361
140061	89	NORTHFIELD TEL CO	14,731	6,909	11,132	32,772	0.3397	0.5143	0.3397	0.7370
140062	89	PERKINSVILLE TEL CO	1,455	2,792	1,852	6,098	0.3037	0.3972	0.3037	0.5967
140068	89	TOPSHAM TEL CO	8,401	2,321	2,634	13,355	0.1972	0.3238	0.1972	0.4262
140069	89	WAITSFIELD/FAYSTON	15,989	7,522	15,409	38,919	0.3922	0.6101	0.3959	0.8500
643300	89	VIRGIN ISLANDS TEL	902,981	0	73,158	1,076,139	0.1609	0.3567	0.1609	0.3496
190217	89	AMELIA TEL CORP	30,972	12,025	5,040	48,037	0.1054	0.2063	0.1049	0.1910
190249	89	ROANOKE & BOTETOURT	77,370	24,566	17,535	119,471	0.1416	0.2406	0.1463	0.2831
522404	89	ASOTIN TEL - WA	8,666	1,314	1,683	11,663	0.1443	0.2622	0.1443	0.3182
522449	89	CONTEL OF THE NW-WA	412,566	177,935	103,121	693,622	0.1487	0.3002	0.1487	0.2247
522410	89	COWICHE TELEPHONE CO	7,224	6,306	1,995	15,525	0.1286	0.2775	0.1285	0.2937
522412	89	ELLENSBURG TEL CO	137,219	37,443	32,485	207,147	0.1568	0.2736	0.1568	0.3052
522417	89	HAT ISLAND TEL CO	0	120	19	139	0.1341	0.4075	0.1341	0.3402
522419	89	HOOD CANAL TEL CO	1,582	2,774	1,097	5,453	0.2006	0.3591	0.2011	0.4352
522423	89	INLAND TEL CO -WA	7,271	3,730	2,245	13,245	0.1695	0.3051	0.1695	0.3642
522426	89	KALAMA TEL CO	8,997	6,853	3,721	19,572	0.1709	0.3666	0.1901	0.4590
522427	89	LEWIS RIVER TEL CO	12,762	11,104	8,262	32,128	0.2392	0.3452	0.2572	0.4984
522431	89	MASHELL TEL CO INC	8,212	9,085	3,484	20,781	0.1676	0.2670	0.1675	0.3228
522436	89	PENINSULA TELECOMM	32,531	15,442	8,474	56,446	0.1501	0.2994	0.1501	0.3472
522437	89	PIONEER TEL CO	4,002	2,387	989	7,379	0.1341	0.2780	0.1341	0.2963
522442	89	ST JOHN TEL CO	2,734	2,247	806	5,787	0.1392	0.2438	0.1392	0.2811
522408	89	TEL UTIL OF WA INC	511,321	327,195	188,010	1,026,525	0.1832	0.3498	0.1832	0.3036
522446	89	TENINO TELEPHONE CO	11,972	10,776	4,484	27,233	0.1648	0.2427	0.1647	0.2926
522447	89	TOLEDO TELEPHONE CO	8,809	4,931	3,410	17,150	0.1988	0.2415	0.1983	0.3225
522451	89	WESTERN WAHAKIAKUM	5,560	2,958	1,832	10,350	0.1770	0.2572	0.1770	0.3188
522452	89	WHIDBEY TEL CO.	35,963	23,665	14,263	73,891	0.1919	0.2775	0.1930	0.3402
522453	89	YELM TELEPHONE CO	42,860	24,412	12,585	79,857	0.1576	0.2679	0.1575	0.3208
200278	89	CONTEL OF WV	346,090	55,982	47,259	449,330	0.1049	0.2372	0.1052	0.2129
200259	89	HARDY TEL CO	24,730	1,819	4,235	30,783	0.1376	0.2513	0.1375	0.3124
200270	89	MOUNTAIN STATE TEL	234,688	46,993	40,197	321,878	0.1239	0.2346	0.1249	0.2372
330841	89	CENCOM OF WISCONSIN	152,966	48,683	24,502	226,150	0.1069	0.2451	0.1083	0.2180

TABLE 4.7

1989 NON-TIER 1 COST COMPANIES NETWORK USAGE DATA
DIAL EQUIPMENT MINUTES (IN THOUSANDS) & FACTORS

FCODE	YEAR	CARRIER	LOC DEM	ST DEM	IS DEM	TOT DEM	IS SLU	IS SPF	IS DEM	TR DEM
330859	89	CENTRAL STATE TEL CO	51,780	20,906	9,727	82,413	0.1180	0.2261	0.1180	0.2200
330895	89	CENTURY OF WISCONSIN	477,607	79,650	159,273	716,529	0.2043	0.2562	0.2223	0.3309
330860	89	CHEQUAMEGON TEL COOP	26,572	11,788	11,067	49,427	0.2239	0.3292	0.2239	0.4612
330870	89	CRANDON TEL CO	16,758	5,808	2,556	25,122	0.1019	0.2128	0.1018	0.2069
330891	89	HEADWATERS TEL CO	15,760	6,706	4,314	26,779	0.1605	0.2872	0.1611	0.3314
330936	89	INDIANHEAD TEL CO	7,556	4,413	2,377	14,347	0.1657	0.3030	0.1657	0.3341
330908	89	MARQUETTE-ADAMS COOP	10,531	6,057	6,829	23,417	0.2916	0.4082	0.2916	0.5453
330909	89	MIDWAY TEL CO	53,970	19,574	11,137	84,681	0.1315	0.2260	0.1315	0.2421
330913	89	MONROE COUNTY TEL CO	72,237	20,902	18,534	111,672	0.1665	0.2810	0.1660	0.3305
330916	89	MOUNT HOREB TEL CO	29,195	5,827	4,480	39,501	0.1134	0.2429	0.1134	0.2510
330917	89	MT VERNON TEL CO	65,648	13,637	11,009	90,294	0.1219	0.2336	0.1219	0.2286
330922	89	NORTH-WEST TEL CO	485,055	159,388	99,912	744,354	0.1277	0.2487	0.1342	0.1894
330931	89	PEOPLES TEL CO	33,313	15,202	6,443	54,958	0.1172	0.2245	0.1172	0.2282
330934	89	PLATTEVILLE TEL CO	52,478	19,507	14,404	86,389	0.1605	0.2912	0.1667	0.3172
330937	89	PRICE COUNTY TEL CO	3,669	8,574	6,423	18,666	0.3441	0.2704	0.3441	0.4941
330940	89	RHINELANDER TEL CO	95,195	27,088	21,316	143,598	0.1403	0.2401	0.1484	0.2759
330950	89	SOLON SPRINGS TEL CO	69,338	26,766	27,810	123,914	0.2244	0.3108	0.2244	0.3925
330952	89	SE TEL OF WISCONSIN	54,487	19,303	10,015	83,805	0.1192	0.2178	0.1195	0.2348
330956	89	UNIVERSAL OF N WISC	61,066	26,428	15,807	103,302	0.1530	0.2707	0.1530	0.3048
330964	89	URBAN TEL CORP	142,639	52,295	21,638	216,572	0.0970	0.2262	0.0999	0.1902
330963	89	UTELCO, INC	99,395	23,175	21,583	144,153	0.1483	0.2631	0.1497	0.3079
330974	89	WOOD COUNTY TEL CO	202,883	45,656	37,825	286,363	0.1098	0.2266	0.1321	0.1935
512291	89	DUBOIS TEL EXCHANGE	7,436	3,062	4,493	14,991	0.2997	0.5686	0.2997	0.7369
512251	89	RANGE TEL COOP - WY	12,089	3,757	4,413	20,259	0.2178	0.4459	0.2178	0.5246
512295	89	SILVER STAR TEL-WY	5,629	1,538	3,582	10,749	0.3332	0.5350	0.3332	0.7479
512299	89	TEL. UTIL. OF WY.	14,073	6,611	10,430	31,114	0.3352	0.5830	0.3352	0.6968
512297	89	UNION TELEPHONE CO	25,354	5,607	11,426	42,388	0.2696	0.5222	0.2696	0.6419
512290	89	UTAH-WYOMING TELECOM	1,664	373	1,083	3,119	0.3472	0.5400	0.3472	0.7377
TOTAL	564	NON-TIER 1 COST COMPANIES	51,187,520	15,507,702	11,636,374	78,407,586				
		FULLY REPORTING TIER 1	1,710,101,000	257,204,000	319,354,000	2,286,659,000				
		NON-FULLY REPORTING TIER 1	40,901,000	6,722,000	7,875,000	55,498,000				
		TOTAL COST COMPANIES	1,802,189,520	279,433,702	338,865,374	2,420,564,586				
		AVERAGE SCHEDULE COMPANIES	26,663,000	7,220,000	5,510,000	39,393,000				
		TOTAL INDUSTRY	1,828,852,520	286,653,702	344,375,374	2,459,957,586				

* - THOSE COMPANIES FOR WHICH NECA COMPUTED DATA

5. Rates and Revenues

This section contains 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.

CHANGES IN THE PRICE OF TELEPHONE SERVICES:

The Bureau of Labor Statistics (BLS) collects 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 Consumer Price Index for telephone services was first published in 1935.¹ Since that time, telephone prices have tended to increase at a slower pace than most other prices. The most recent data are for June 1991. For the 12 months ending June 1991, the nation's overall level of prices (measured by the CPI for all items) rose by 4.7%. The CPI for telephone services rose by 1.3% during the same period. The CPI for telephone services is composed of three subindexes. During the most recent 12 months, the local service component (including subscriber line charges) increased by 2.9%, while the price of interstate toll calls fell by 2.2%, and the price of state toll calls fell by 2.3%.

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.²

1 BLS publishes two sets of Consumer Price Indexes. The CPI-U, used herein, is based on expenditures of all urban consumers. The CPI-W series is based on expenditures of urban wage earners and clerical workers.

2 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.

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 since then. The annual rate of change during recent years is shown in Table 5.2 for the Gross National Product fixed weight price index (which reflects inflation throughout the economy), the overall CPI (which measures the impact of inflation on consumers), and the CPI for telephone services.

Table 5.2
Annual Rate of Change in Price Indexes*

	GNP Fixed Weight Price Index	CPI: All Items	CPI: Telephone Services
1978	7.2%	9.0%	0.9%
1979	8.8	13.3	0.7
1980	9.8	12.5	4.6
1981	8.5	8.9	11.7
1982	5.0	3.8	7.2
1983	3.9	3.8	3.6
1984	3.7	3.9	9.2
1985	3.6	3.8	4.7
1986	2.3	1.1	2.7
1987	3.8	4.4	-1.3
1988	4.6	4.4	1.3
1989	4.0	4.6	-0.3
1990	4.7	6.1	-0.4
1991**	4.2	4.7	1.3

* Measured December through December except for 1991.

** Measured June through June except for the GNP Fixed Weight Price Index which is based on data for the second quarter through the second quarter.

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 5.3.³ 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.

³ Telephone rates rose at a similar pace in 1990 and in the first part of 1991. Published index levels, however, reflect a \$8.72 per access line credit for Southwestern Bell customers in Texas in December. This appears to have caused the local service and the overall telephone service indexes to drop significantly in December, with a corresponding rise in January. The use of December index levels to calculate annual price charge leads to a slight understatement of price charges in 1990 and corresponding overstatement in 1991.

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
1988	4.5	4.5
1989	0.6	1.9
1990	1.0	1.5
1991**	2.9	2.5

* Measured December through December except for 1991.

** Measured June through June.

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 fallen in the last four years.

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
1988	-4.2	-4.2
1989	-1.3	-2.6
1990	-3.7	-2.2
1991**	-2.2	-2.1

* Measured December through December except for 1991.

** Measured June through June.

E. Monthly Price Index Data:

Monthly data for the CPI telephone indexes are shown in Table 5.5.
Monthly data for PPI indexes are shown in Table 5.6.

TABLE 5.5
Consumer Price Index Data

	All Goods & Services	All Telephone Services	Local Services	Interstate Toll Service	Intrastate Toll Service
1983 January	97.8	98.1	97.2	100.9	97.3
February	97.9	98.3	96.8	101.6	98.9
March	97.9	98.5	97.0	101.6	99.3
April	98.6	98.4	96.8	101.6	99.5
May	99.2	98.9	97.5	101.6	100.0
June	99.5	99.3	98.1	101.6	100.2
July	99.9	99.5	98.1	101.7	100.9
August	100.2	99.6	98.3	101.7	101.0
September	100.7	99.9	98.6	101.7	101.2
October	101.0	99.7	98.3	101.4	101.6
November	101.2	100.4	99.5	101.4	102.3
December	101.3	99.8	98.3	101.3	102.2
1984 January	101.9	105.0	106.7	101.3	104.2
February	102.4	107.0	110.0	102.1	104.2
March	102.6	106.4	109.1	102.1	104.1
April	103.1	106.7	109.1	102.0	105.6
May	103.4	106.9	109.5	102.3	105.1
June	103.7	107.1	110.7	98.9	106.5
July	104.1	107.7	112.3	96.9	107.5
August	104.5	107.9	112.9	96.8	106.6
September	105.0	108.7	114.3	96.8	106.5
October	105.3	108.8	114.5	97.0	106.5
November	105.3	109.4	115.4	96.9	107.1
December	105.3	109.0	115.2	96.9	105.9
1985 January	105.5	109.3	115.6	96.9	105.9
February	106.0	108.3	113.8	96.9	105.8
March	106.4	109.5	116.0	96.9	106.1
April	106.9	109.4	115.8	96.9	106.0
May	107.3	109.6	116.0	97.4	105.8
June	107.6	112.1	121.3	94.7	106.2
July	107.8	112.9	123.0	93.1	107.5
August	108.0	113.6	123.9	93.3	107.8
September	108.3	113.7	124.2	93.3	107.8
October	108.7	113.8	124.3	93.3	108.0
November	109.0	114.2	125.2	93.3	107.9
December	109.3	114.1	125.5	93.3	106.5
1986 January	109.6	114.6	126.2	93.3	106.7
February	109.3	114.8	126.4	93.3	107.0
March	108.8	115.3	127.2	93.3	107.1
April	108.6	116.5	129.5	93.3	106.8
May	108.9	116.5	129.5	93.3	106.9
June	109.5	118.7	135.6	88.0	106.7
July	109.5	118.7	137.0	84.7	106.7
August	109.7	118.8	137.2	84.4	107.0
September	110.2	118.3	136.5	84.4	106.5
October	110.3	118.9	137.5	84.4	106.8
November	110.4	117.6	135.1	84.4	106.5
December	110.5	117.2	134.4	84.5	106.8
1987 January	111.2	116.6	137.6	77.1	107.0
February	111.6	116.4	137.5	77.1	106.4
March	112.1	116.4	137.4	77.1	106.4
April	112.7	116.7	138.2	77.0	106.3
May	113.1	116.4	138.1	76.7	105.2
June	113.5	115.6	137.5	76.7	102.7
July	113.8	116.6	141.0	73.4	104.0
August	114.4	117.0	141.9	73.4	103.8
September	115.0	116.6	140.9	73.7	103.5

TABLE 5.5
Consumer Price Index Data

	All Goods & Services	All Telephone Services	Local Services	Interstate Toll Service	Intrastate Toll Service
October	115.3	117.0	141.3	73.7	104.1
November	115.4	116.9	141.4	73.7	103.6
December	115.4	115.7	138.9	74.0	103.6
1988 January	115.7	115.8	139.9	72.2	104.1
February	116.0	116.6	141.6	72.2	103.6
March	116.5	116.2	141.1	72.0	103.2
April	117.1	116.6	142.0	72.1	102.9
May	117.5	116.6	142.0	72.1	102.8
June	118.0	115.8	140.8	72.1	102.3
July	118.5	115.8	141.4	72.1	100.3
August	119.0	114.8	139.4	72.1	100.3
September	119.8	115.6	140.6	73.1	100.0
October	120.2	115.8	141.1	73.1	99.4
November	120.3	115.7	140.9	73.1	99.4
December	120.5	117.2	145.2	70.9	99.2
1989 January	121.1	116.8	145.0	70.9	97.4
February	121.6	116.6	144.7	70.8	97.4
March	122.3	116.2	144.1	70.8	96.9
April	123.1	117.2	146.6	70.0	96.8
May	123.8	117.9	147.8	69.8	97.4
June	124.1	117.6	147.2	69.8	97.4
July	124.4	117.8	147.8	69.6	97.0
August	124.6	117.7	147.6	69.6	97.0
September	125.0	117.8	147.9	69.6	96.9
October	125.6	116.9	146.2	69.6	96.7
November	125.9	117.2	146.8	69.6	96.8
December	126.1	116.9	146.0	70.0	96.6
1990 January	127.4	117.6	148.4	69.1	95.2
February	128.0	117.9	149.0	69.0	95.1
March	128.4	118.2	149.7	69.0	95.0
April	128.9	118.4	150.0	69.0	95.1
May	129.2	118.0	149.2	69.0	95.2
June	129.9	118.0	149.2	69.0	95.3
July	130.4	115.5	145.4	67.4	95.4
August	130.6	117.7	149.7	67.4	95.3
September	132.7	117.9	150.1	67.4	95.2
October	133.5	118.6	151.4	67.4	94.8
November	133.8	118.6	151.4	67.4	94.7
December	133.8	116.4	147.5	67.4	94.5
1991 January	134.6	119.3	153.4	67.1	93.4
February	134.8	119.2	153.2	67.1	93.4
March	135.0	119.3	153.2	67.5	93.3
April	135.2	119.3	153.4	67.5	92.9
May	135.6	119.3	153.6	67.5	92.6
June	136.0	119.5	153.6	67.5	93.1
July					
August					
September					
October					
November					
December					

TABLE 5.6
Producer Price Index Data

	Local Services 4811-1	Local Residential Services 4811-111	Local Business Services 4811-112	Local Optional Additional Usage 4811-113	Local Coin Service 4811-114
1983 January	162.6	168.7	170.8	125.9	161.0
February	162.9	169.0	171.2	125.9	161.0
March	163.4	169.5	172.2	125.9	161.0
April	163.1	169.2	172.0	125.7	160.9
May	132.6	168.4	171.5	125.7	161.8
June	163.3	169.1	172.3	126.2	162.9
July	163.8	169.6	173.1	126.2	163.2
August	163.9	169.7	173.2	126.2	163.2
September	164.3	170.2	173.6	126.2	163.4
October	164.7	170.5	174.0	127.0	164.3
November	164.8	170.6	174.1	127.0	164.5
December	164.8	170.6	174.1	127.0	164.5
1984 January	171.2	177.8	180.3	124.3	184.2
February	171.2	177.8	180.3	124.3	184.2
March	171.2	177.7	180.5	124.3	184.4
April	171.9	177.7	183.7	124.3	184.6
May	172.1	178.1	183.7	124.3	184.6
June	177.9	178.6	208.1	124.3	189.0
July	182.2	181.4	211.0	122.5	222.3
August	185.7	186.0	213.7	122.5	227.2
September	187.6	188.7	215.8	122.5	227.2
October	187.7	188.7	215.9	122.5	227.2
November	187.5	188.3	215.9	122.5	227.5
December	187.6	188.4	216.0	122.5	227.5
1985 January	188.9	189.8	218.2	122.5	228.2
February	190.7	191.9	220.7	122.5	228.9
March	190.6	191.1	220.7	122.5	228.9
April	190.6	191.1	220.7	122.5	228.9
May	191.0	192.3	220.9	122.5	230.5
June	200.6	208.8	222.2	122.5	230.7
July	200.8	209.2	222.2	122.5	230.7
August	201.6	210.4	222.9	122.5	230.8
September	202.2	211.0	223.9	122.5	231.2
October	202.3	211.0	224.6	122.5	231.3
November	204.8	211.7	228.0	130.2	233.8
December	204.8	211.7	228.0	130.2	233.8
1986 January	206.5	213.4	230.8	130.3	234.3
February	206.7	213.6	231.3	130.3	234.3
March	206.7	213.6	231.3	130.3	234.3
April	206.7	213.6	231.3	130.3	234.3
May	206.7	213.6	231.3	130.3	234.3
June	216.6	230.3	234.0	130.3	234.6
July	216.6	230.3	234.0	130.3	234.6
August	216.9	230.8	234.1	130.3	234.7
September	217.5	231.3	234.6	131.5	234.9
October	217.5	231.3	234.6	131.5	234.9
November	216.8	230.5	233.6	131.5	234.9
December	216.8	230.5	233.6	131.5	234.9
1987 January	216.7	230.1	234.0	131.5	235.0
February	216.6	230.0	234.0	131.5	234.9
March	216.8	230.3	234.1	131.5	234.9
April	216.1	229.2	233.5	131.5	234.9
May	216.1	229.2	233.5	131.5	234.9
June	216.1	229.2	233.5	131.5	234.9
July	220.1	236.6	232.7	131.5	234.9
August	219.9	236.6	232.0	131.5	234.6
September	219.3	236.6	231.9	127.8	234.5

TABLE 5.6
 Producer Price Index Data

	Local Services 4811-1	Local Residential Services 4811-111	Local Business Services 4811-112	Local Optional Additional Usage 4811-113	Local Coin Service 4811-114
October	219.3	236.6	231.8	127.8	234.5
November	219.3	236.6	231.8	127.8	234.5
December	219.3	236.6	231.8	127.7	234.5
1988 January	218.5	235.9	230.2	127.7	234.3
February	218.2	235.5	230.3	127.7	233.1
March	218.4	235.7	230.6	127.7	233.1
April	218.4	235.7	230.6	127.7	233.1
May	218.4	235.7	230.6	127.7	233.1
June	218.3	235.7	230.6	127.7	233.1
July	217.9	235.1	230.0	127.7	233.1
August	218.1	235.4	230.3	127.7	233.1
September	218.2	235.4	230.2	127.7	233.4
October	219.5	235.9	230.8	127.7	246.0
November	219.5	236.0	230.8	127.7	246.0
December	226.4	247.4	233.0	127.7	246.2
1989 January	226.2	246.6	234.3	127.5	246.6
February	226.2	246.6	234.4	127.5	246.6
March	226.3	246.7	234.4	127.5	246.6
April	229.5	252.2	234.8	127.5	246.7
May	229.5	252.2	234.8	127.5	246.7
June	229.5	252.3	234.8	127.5	246.7
July	229.6	252.5	234.9	127.5	246.7
August	229.5	252.2	234.7	127.5	246.7
September	229.4	252.2	234.6	127.5	246.7
October	229.4	252.2	234.5	127.5	246.6
November	229.4	252.2	234.5	127.5	246.6
December	229.4	252.2	234.5	127.5	246.6
1990 January	229.3	252.7	234.0	126.1	246.6
February	229.7	253.1	234.3	126.1	246.7
March	229.6	253.1	234.2	126.1	246.7
April	229.4	252.7	234.2	126.1	246.6
May	229.4	252.8	234.2	126.1	246.6
June	229.4	252.8	234.2	126.1	246.6
July	229.5	252.8	234.4	126.1	246.6
August	229.5	252.8	234.4	126.1	246.6
September	229.5	252.8	234.4	126.1	246.6
October	229.8	253.3	234.6	126.1	246.7
November	231.4	256.0	234.6	126.1	248.5
December	231.4	256.0	234.6	126.1	248.5
1991 January	232.6	258.9	232.6	126.1	248.8
February	232.6	258.8	232.6	126.1	248.8
March	232.6	258.9	232.7	126.1	248.8
April	232.8	259.1	232.7	126.1	248.8
May	232.8	259.1	232.7	126.1	248.8
June	232.8	259.1	232.7	126.1	248.8
July					
August					
September					
October					
November					
December					

TABLE 5.6
Producer Price Index Data

	Toll Service	Intrastate MTS	Interstate MTS	International MTS
	4811-2	4811-211	4811-212	4811-213
1983 January	148.8	151.1	153.4	92.3
February	148.8	151.1	153.4	92.3
March	149.0	151.7	153.4	92.3
April	148.9	151.5	153.4	92.3
May	149.0	151.5	153.4	92.3
June	149.3	152.2	153.4	92.3
July	149.4	152.2	153.4	92.3
August	149.4	152.3	153.4	92.3
September	149.4	152.3	153.4	92.3
October	149.8	153.2	153.4	92.7
November	149.8	153.2	153.4	92.7
December	149.8	153.2	153.4	92.7
1984 January	150.7	155.9	153.4	92.7
February	150.6	155.9	153.4	92.5
March	150.7	155.9	153.4	92.5
April	150.8	156.1	153.4	92.5
May	150.5	155.3	153.4	92.5
June	146.2	155.9	145.6	87.3
July	146.6	157.0	145.6	86.8
August	147.1	158.3	145.6	86.8
September	147.3	158.9	145.6	86.8
October	147.3	158.9	145.6	86.8
November	146.8	157.5	145.6	86.8
December	147.4	159.0	145.6	86.8
1985 January	147.6	159.8	145.6	86.8
February	147.7	159.8	145.6	86.8
March	147.7	159.8	145.6	86.8
April	148.1	161.0	146.6	86.8
May	149.9	162.6	147.9	86.8
June	146.3	162.8	141.3	86.5
July	146.3	162.8	141.3	86.5
August	146.6	163.4	141.3	86.5
September	146.5	163.2	141.3	86.5
October	146.5	163.2	141.3	86.5
November	146.7	163.7	141.3	86.5
December	146.2	162.4	141.3	86.5
1986 January	146.2	162.4	141.3	84.2
February	146.2	162.5	141.3	84.2
March	146.2	162.6	141.3	84.2
April	144.1	156.9	141.3	84.3
May	144.1	156.9	141.3	84.3
June	135.9	156.1	127.2	84.1
July	135.9	156.1	127.1	84.1
August	135.8	156.1	127.1	84.1
September	135.8	156.2	127.1	84.1
October	136.0	156.8	127.1	84.1
November	136.0	156.7	127.1	84.1
December	136.0	156.7	127.1	84.1
1987 January	128.8	156.1	115.3	84.0
February	128.5	155.4	115.3	84.0
March	128.5	155.4	115.3	84.0
April	128.4	155.2	115.3	84.0
May	128.1	154.4	115.3	84.0
June	128.0	154.2	115.3	84.0
July	125.4	152.4	112.1	84.0
August	125.4	152.4	112.1	84.0
September	124.9	151.3	112.1	84.0

TABLE 5.6
 Producer Price Index Data

	Toll Service	Intrastate MTS	Interstate MTS	International MTS
	4811-2	4811-211	4811-212	4811-213
October	124.9	151.3	112.1	84.0
November	125.2	152.0	112.1	83.8
December	125.2	152.0	112.1	83.8
1988 January	124.6	152.4	110.1	83.8
February	124.3	151.7	109.1	83.8
March	124.3	151.7	109.1	83.8
April	124.2	151.7	109.1	83.8
May	124.2	151.4	109.1	83.8
June	124.2	151.7	109.1	83.8
July	122.4	146.8	109.1	83.8
August	122.7	147.9	109.1	83.8
September	124.5	147.8	112.8	83.8
October	123.8	146.0	112.8	83.8
November	123.9	146.2	112.8	83.8
December	122.3	146.3	109.7	83.8
1989 January	123.1	148.3	109.7	83.8
February	125.1	153.7	109.7	83.8
March	125.1	153.6	109.7	83.8
April	124.1	153.8	108.0	83.8
May	124.0	153.7	108.0	83.8
June	124.0	153.7	108.0	83.8
July	123.9	153.5	107.8	83.8
August	123.9	153.5	107.8	83.8
September	123.7	153.2	107.8	83.8
October	122.2	149.3	107.8	83.8
November	122.2	149.3	107.8	83.8
December	122.2	149.3	107.8	83.8
1990 January	122.0	148.8	107.9	83.4
February	122.4	149.8	107.9	83.4
March	121.1	146.3	107.9	83.4
April	121.1	146.3	107.9	83.4
May	121.1	146.3	107.9	83.4
June	121.1	146.3	107.9	83.4
July	120.9	146.2	107.7	83.4
August	120.8	146.2	107.7	83.4
September	120.8	146.2	107.7	83.4
October	120.7	145.8	107.7	83.4
November	120.0	143.8	107.7	83.4
December	120.0	143.8	107.7	83.4
1991 January	117.8	140.9	105.6	83.4
February	117.7	140.7	105.6	83.4
March	117.7	140.7	105.6	83.4
April	117.7	140.7	105.6	83.4
May	117.7	140.7	105.6	83.4
June	116.7	138.1	105.6	83.4
July				
August				
September				
October				
November				
December				

TABLE 5.6
 Producer Price Index Data

	WATS	Interstate WATS	Intrastate WATS	Interstate Private Line
	4811-214	4811-214-11	4811-214-12	4811-311
1983 January	131.8	127.1	144.1	156.9
February	131.8	127.1	144.3	156.9
March	131.8	127.1	144.3	156.9
April	131.8	127.1	144.3	156.9
May	132.4	127.1	146.3	156.9
June	132.7	127.1	147.6	156.9
July	133.7	127.1	151.2	156.9
August	133.7	127.1	151.2	156.9
September	133.7	127.1	151.2	156.9
October	133.7	127.1	151.2	156.9
November	133.7	127.1	151.2	156.9
December	133.7	127.1	151.1	158.4
1984 January	132.2	127.1	145.6	158.4
February	132.2	127.1	145.9	158.4
March	132.7	127.1	147.3	158.4
April	132.6	127.1	147.1	158.4
May	132.8	127.1	147.8	158.4
June	127.2	119.6	147.4	158.4
July	127.6	119.6	148.8	158.4
August	127.5	119.6	148.5	158.4
September	127.5	119.6	148.5	158.4
October	127.6	119.6	148.7	158.4
November	127.6	119.6	148.7	163.1
December	127.8	119.6	149.6	163.1
1985 January	127.6	119.6	148.8	163.1
February	127.6	119.6	148.8	163.1
March	127.8	119.6	149.7	159.2
April	127.8	119.6	149.5	159.2
May	128.2	119.6	150.9	159.2
June	123.5	113.1	151.0	168.3
July	123.5	113.1	151.0	168.3
August	123.5	113.1	151.0	168.3
September	123.7	113.1	151.6	168.3
October	123.6	113.1	151.3	168.3
November	123.5	113.1	150.9	168.3
December	123.3	113.1	150.3	168.3
1986 January	124.2	113.1	153.6	
February	124.2	113.1	153.6	
March	124.2	113.1	153.6	
April	124.4	113.1	154.2	
May	124.9	113.9	154.1	
June	115.4	100.8	154.3	
July	115.3	100.6	154.3	
August	114.2	100.6	150.2	
September	113.8	100.6	148.9	
October	113.8	100.6	148.7	
November	113.7	100.6	148.6	
December	113.3	100.6	146.9	
1987 January	111.1	97.5	146.9	
February	110.9	97.5	146.4	
March	110.9	97.5	146.4	
April	110.9	97.5	146.4	
May	110.9	97.5	146.4	
June	110.3	97.5	144.2	
July	110.3	97.5	144.1	
August	110.2	97.5	143.7	
September	110.2	97.5	143.6	

TABLE 5.6
 Producer Price Index Data

	WATS	Interstate WATS	Intrastate WATS	Interstate Private Line
	4811-214	4811-214-11	4811-214-12	4811-311
October	110.1	97.5	143.4	
November	110.1	97.5	143.4	
December	110.1	97.5	143.4	
1988 January	106.4	93.1	141.4	
February	105.9	93.1	139.8	
March	105.9	93.1	139.8	
April	104.9	93.1	136.2	
May	104.9	93.1	136.2	
June	104.8	93.1	135.6	
July	105.0	93.1	135.6	
August	104.0	93.1	132.9	
September	103.3	93.1	130.1	
October	102.7	93.1	128.2	
November	103.4	93.1	130.5	
December	102.7	92.5	129.7	
1989 January	102.0	90.6	131.7	
February	102.0	90.6	131.7	
March	102.0	90.6	131.7	
April	99.8	87.0	131.4	
May	99.1	87.0	131.0	
June	99.3	87.0	131.8	
July	99.2	87.0	131.3	
August	99.0	87.0	130.8	
September	98.8	87.0	130.4	
October	98.8	87.0	130.1	
November	98.8	87.0	130.1	
December	98.8	87.0	130.1	
1990 January	98.4	87.0	128.6	
February	98.4	87.0	128.6	
March	98.4	87.0	128.7	
April	98.5	87.0	128.7	
May	98.5	87.0	128.7	
June	98.5	87.0	128.7	
July	97.2	87.0	124.2	
August	97.2	87.0	124.2	
September	97.2	87.0	126.1	
October	97.8	87.0	126.1	
November	97.8	87.0	126.1	
December	97.8	87.0	126.1	
1991 January	97.5	87.0	125.3	
February	97.5	87.0	125.3	
March	97.5	87.0	125.3	
April	97.5	87.0	125.3	
May	97.5	87.0	125.3	
June	97.5	87.0	125.3	
July				
August				
September				
October				
November				
December				

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 \$8.35 for areas served by Pacific Bell and \$9.75 for areas served by General of California.

Table 5.7 presents average local residential rates. 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 5.7 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 October 1990, the national average for flat rate residential service was \$12.40 monthly. Lower-priced service alternatives are frequently available, at an average monthly charge of \$5.66.⁴

⁴ The methodology used in conducting the survey is contained in the Primer and Sourcebook on Telephone Price Indexes and Rate Levels.

Table 5.7
Average Monthly Residential Rates
(in October of each year)

	1983	1984	1985	1986	1987	1988	1989	1990
Unlimited Local Calling	\$10.50	\$12.10	\$12.17	\$12.58	\$12.44	\$12.32	\$12.30	\$12.40
Subscriber Line Charges*	.00	.00	1.01	2.04	2.66	2.67	3.53	3.55
Taxes	1.08	1.25	1.36	1.51	1.56	1.58	1.70	1.83
<u>Total</u>	<u>11.58</u>	<u>13.35</u>	<u>14.54</u>	<u>16.13</u>	<u>16.66</u>	<u>16.57</u>	<u>17.53</u>	<u>17.78</u>
Lowest Generally								
Available Monthly Rate	\$ 5.37	\$ 5.62	\$ 5.75	\$ 5.96	\$ 5.81	\$ 5.67	\$ 5.67	\$ 5.66
Subscriber Line Charges*	.00	.00	1.01	2.04	2.66	2.67	3.53	3.55
Taxes	.56	.58	.70	.84	.94	.91	1.03	1.14
<u>Total</u>	<u>5.93</u>	<u>6.20</u>	<u>7.46</u>	<u>8.84</u>	<u>9.41</u>	<u>9.25</u>	<u>10.23</u>	<u>10.35</u>
Minimum Connection Charge	\$35.01	\$43.71	\$44.32	\$45.63	\$44.04	\$42.94	\$42.71	\$43.02
Taxes	1.75	2.19	2.22	2.28	2.20	2.11	2.24	2.37
<u>Total</u>	<u>36.76</u>	<u>45.90</u>	<u>46.54</u>	<u>47.91</u>	<u>46.24</u>	<u>45.05</u>	<u>44.95</u>	<u>45.39</u>

* Includes both Federal and State charges.

The local rate averages shown in Table 5.7 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. The most recent available local rate survey, reflecting data as of October 15, 1990, indicated that assistance for monthly service charges was offered in 61 of the 95 sample cities, representing 66% of urban consumers. Connection assistance was offered in 91 of the 95 sample cities representing 98% of urban consumers. In October 1990, Lifeline and similar assistance programs provided an average benefit of \$7.36 per month. Link Up and similar connection assistance programs reduced connection costs by an average of \$24.42.

Table 5.8 presents average monthly rates for single line business customers. Like the residential rates presented above, they are based on a FCC survey using the same sampling areas and weights used by the BLS in constructing the Consumer Price Index.

Table 5.8

Average Monthly Single Line Business Rates
(in October of each year)

	1983	1984	1985	1986	1987	1988	1989	1990
Representative Rate *	\$29.16	\$32.74	\$33.42	\$34.26	\$33.71	\$34.48	\$33.49	\$33.28
Subscriber Line Charges**	.00	.00	1.01	2.04	2.68	2.69	3.55	3.57
Taxes	3.35	3.76	3.96	4.17	4.18	3.95	4.21	4.24
<u>Total</u>	<u>33.51</u>	<u>36.51</u>	<u>38.39</u>	<u>40.47</u>	<u>40.57</u>	<u>40.12</u>	<u>41.25</u>	<u>41.09</u>
Minimum Connection Charge	\$56.04	\$68.84	\$70.82	\$79.94	\$72.15	\$72.51	\$72.75	\$73.33
Taxes	3.08	3.79	3.90	4.01	3.97	3.92	4.06	4.16
<u>Total</u>	<u>59.12</u>	<u>72.63</u>	<u>74.72</u>	<u>76.95</u>	<u>76.12</u>	<u>76.43</u>	<u>76.81</u>	<u>77.49</u>

* The "representative" rate is the monthly single line rate for touch tone service with unlimited service where offered, and the measured service rate with 200 messages in other cities.

** Includes both Federal and State charges.

Long Distance Rates

Table 5.9 compares the prices of directly dialed interstate long distance calls in all mileage bands and rate periods based on AT&T's tariffed rates in effect during January 1984 and July 1991. These rates are the basic message toll service rates and do not reflect discounts available in special calling plans. They also do not reflect any taxes or surcharges imposed by some states. During this period, AT&T's per minute charges for directly dialed interstate calls have been reduced about 45%.

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

Calling Distance in airline miles, rate center to rate center		Five minute calls			10 minute calls		
		January 1984	July 1991	Percentage change	January 1984	July 1991	Percentage change
1 - 10	Day	\$0.96	\$0.85	-11.5%	\$1.76	\$1.70	-3.4%
	Evening	\$0.57	\$0.56	-1.8%	\$1.05	\$1.11	5.7%
	Night	\$0.38	\$0.52	36.8%	\$0.70	\$1.05	50.0%
11 - 22	Day	\$1.28	\$0.90	-29.7%	\$2.38	\$1.80	-24.4%
	Evening	\$0.76	\$0.65	-14.5%	\$1.42	\$1.30	-8.5%
	Night	\$0.51	\$0.56	9.8%	\$0.95	\$1.13	18.9%
23 - 55	Day	\$1.60	\$0.95	-40.6%	\$3.00	\$1.90	-36.7%
	Evening	\$0.96	\$0.65	-32.3%	\$1.80	\$1.30	-27.8%
	Night	\$0.64	\$0.60	-6.2%	\$1.20	\$1.20	0.0%
56 - 124	Day	\$2.05	\$1.04	-49.3%	\$3.90	\$2.09	-46.4%
	Evening	\$1.22	\$0.72	-41.0%	\$2.34	\$1.45	-38.0%
	Night	\$0.82	\$0.60	-26.8%	\$1.56	\$1.20	-23.1%
125 - 292	Day	\$2.14	\$1.04	-51.4%	\$4.09	\$2.09	-48.9%
	Evening	\$1.28	\$0.72	-43.7%	\$2.45	\$1.45	-40.8%
	Night	\$0.85	\$0.61	-28.2%	\$1.63	\$1.22	-25.2%
293 - 430	Day	\$2.27	\$1.15	-49.3%	\$4.37	\$2.30	-47.4%
	Evening	\$1.36	\$0.72	-47.1%	\$2.62	\$1.45	-44.7%
	Night	\$0.90	\$0.62	-31.1%	\$1.74	\$1.25	-28.2%
431 - 925	Day	\$2.34	\$1.15	-50.9%	\$4.49	\$2.30	-48.8%
	Evening	\$1.40	\$0.74	-47.1%	\$2.69	\$1.49	-44.6%
	Night	\$0.93	\$0.65	-30.1%	\$1.79	\$1.30	-27.4%
926 - 1910	Day	\$2.40	\$1.22	-49.2%	\$4.60	\$2.44	-47.0%
	Evening	\$1.44	\$0.74	-48.6%	\$2.76	\$1.49	-46.0%
	Night	\$0.96	\$0.66	-31.2%	\$1.84	\$1.33	-27.7%
1911 - 3000	Day	\$2.70	\$1.22	-54.8%	\$5.15	\$2.45	-52.4%
	Evening	\$1.62	\$0.74	-54.3%	\$3.09	\$1.49	-51.8%
	Night	\$1.08	\$0.67	-38.0%	\$2.06	\$1.35	-34.5%
3001 - 4250	Day	\$2.80	\$1.46	-47.9%	\$5.35	\$2.91	-45.6%
	Evening	\$1.68	\$1.01	-39.9%	\$3.21	\$2.01	-37.4%
	Night	\$1.12	\$0.80	-28.6%	\$2.12	\$1.60	-24.5%
4251 - 5750	Day	\$2.91	\$1.61	-44.7%	\$5.56	\$3.20	-42.4%
	Evening	\$1.74	\$1.07	-38.5%	\$3.33	\$2.15	-35.4%
	Night	\$1.16	\$0.85	-26.7%	\$2.22	\$1.70	-23.4%

Subscriber Line and Access Charges

Monthly subscriber line charges (or "end user" charges) were first imposed 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 **	Embedded Centrex Rate Cap ***
05/26/84 to 05/31/85	\$0.00	\$4.99	\$2.00
06/01/85 to 09/30/85	1.00	4.99	2.00
10/01/85 to 05/31/86	1.00	4.97	2.00
06/01/86 to 12/31/86	2.00	4.97	3.00
01/01/87 to 06/30/87	2.00	5.12	3.00
07/01/87 to 12/31/87	2.60	5.12	4.00
01/01/88 to 11/30/88	2.60	5.01	4.00
12/01/88 to 03/31/89	3.20	5.01	5.00
04/01/89 to 12/31/89	3.50	4.94	6.00
01/01/90 to 06/30/90	3.48	4.84	6.00
07/01/90 to 12/31/90	3.48	4.83	6.00
01/01/91 to 06/30/91	3.48	4.77	6.00
07/01/91 to present	3.49	4.74	6.00

* The monthly subscriber line charge for residential and single line business customers is capped at a maximum rate of \$3.50 monthly. Local companies are not permitted to charge the full amount unless justified by their underlying costs. As a result, a few companies do not charge the full \$3.50.

** The monthly subscriber line charge for multiline business customers has been capped at a maximum rate of \$6.00 monthly since 1984. 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 the national average calculated by NECA.

*** These rates represent the maximum charge applied to centrex lines in place or on order as of July 27, 1983. Prior to April 1, 1989, "embedded" centrex lines were capped at levels lower than new centrex lines. Customers with new centrex lines paid the multiline business subscriber line charge. Since April 1, 1989, all centrex lines have been charged the same rate as multiline business.

Access charges by local telephone companies to long distance carriers are an important component of the overall cost of providing long distance service. Table 5.11 shows the history of the average levels of these charges.

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>
05/26/84 to 01/14/85	5.24	5.24	3.1	17.3
01/15/85 to 05/31/85	5.43	5.43	3.1	17.7
06/01/85 to 09/30/85	4.71	4.71	3.1	16.2
10/01/85 to 05/31/86	4.33	4.33	3.1	15.4
06/01/86 to 12/31/86	3.04	4.33	3.1	14.0
01/01/87 to 06/30/87	1.55	4.33	3.1	12.4
07/01/87 to 12/31/87	0.69	4.33	3.1	11.5
01/01/88 to 11/30/88	0.00	4.14	3.1	10.6
12/01/88 to 02/14/89	0.00	3.39	3.0	9.6
02/15/89 to 03/31/89	0.00	3.25	3.0	9.5
04/01/89 to 12/31/89	1.00	1.83	3.0	9.1
01/01/90 to 06/30/90	1.00	1.53	2.5	7.8
07/01/90 to 12/31/90	1.00	1.23	2.5	7.5
01/01/91 to 06/30/91	1.00	1.14	2.4	7.2
07/01/91 to present	0.96	0.96	2.4	7.0

1/ Prior to 4/1/89, the rates shown are nationally uniform "premium" rates specified in tariffs filed by the National Exchange Carrier Association (NECA). Since 4/1/89, the terminating rate is no longer identical for all companies, and the rate shown is an average. 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. At mid-1990, New York Telephone Company reported rate cases of over \$800 million pending before the New York Public Utilities Commission. The total amount of rate increases requested and pending before other state commissions was only about \$200 million. During 1987, 1988, 1989, and 1990, the dollar amount of rate reductions and refunds ordered by state commissions exceeded the dollar amount of rate increases authorized. Since it typically takes more than a year for a rate case to be completed, the low level of pending cases -- viewed in conjunction with the recent reductions ordered by state commissions -- should indicate a 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, we also include information from smaller companies which is submitted by state utility commissions, information published by the National Regulatory Research Institute, and any additional information brought to our attention or appearing in a telecommunications publication.

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	<u>1,059.4</u>	<u>361.2</u>	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	<u>369.9</u>	<u>307.3</u>	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	<u>8.7</u>	<u>.8</u>	322.6
Total	<u>643.7</u>	<u>290.0</u>	
1987 First quarter	7.0	-33.1	67.1
Second quarter	19.4	-112.0	47.7
Third quarter	62.0	-94.0	94.0
Fourth quarter	<u>57.9</u>	<u>-279.9</u>	124.7
Total	<u>146.3</u>	<u>-519.0</u>	
1988 First quarter	46.4	-215.3	148.5
Second quarter	155.2	-232.4	301.6
Third quarter	140.9	-387.8	377.0
Fourth quarter	<u>15.4</u>	<u>-530.9</u>	198.5
Total	<u>357.9</u>	<u>-1,366.4</u>	
1989 First quarter	52.1	-203.7	140.6
Second quarter	25.8	-107.6	148.7
Third quarter	362.9	-48.9	490.4
Fourth quarter	<u>6.2</u>	<u>-478.3</u>	419.5
Total	<u>447.0</u>	<u>-838.5</u>	

Table 5.12 (cont.)

State Telephone Rate Cases
(Millions of Dollars)

	<u>Revenue Increases Requested During Quarter</u>	<u>Revenue Changes Ordered During Quarter</u>	<u>Requests Pending at End of Quarter</u>
1990 First quarter	897.8	-134.6	903.6
Second quarter	58.3	-109.9	955.1
Third quarter	129.3	-316.9	1,066.8
Fourth quarter	23.8	110.3	258.6
	<u>1,109.2</u>	<u>-451.1</u>	
1991 First quarter	184.3	2.8	372.4
Second quarter	2.1	7.9	219.2

ADDITIONAL DATA RECEIVED

Twenty-five state utility commissions have filed data. 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 **
Alaska	16	1	x
Arkansas	28	17	x
California	22	3	x
Colorado	31	3	x
District of Col.	1	N/A	x
Florida	14	1	x
Idaho	21	1	x
Indiana	42	4	x
Iowa	152	10	x
Maine	20	1	x
Massachusetts	1	1	
Michigan	45	3	
Minnesota	4	24	x
Missouri	46	0	x
Nebraska	42	1	
New Jersey	3	3	x
New York	41	7	x
North Carolina	19	16	x
North Dakota	10	1	
Ohio	44	33	x
Rhode Island	1	1	x
Texas	66	2	x
Virginia	20	9	x
Washington	3	0	x
Wisconsin	100	4	x

* Most states provided tariff pages.

** x indicates information has been filed.

6. Bypass

The regional Bell holding companies and GTE submitted their fifth bypass reports on April 30, 1991. The estimated quantity losses for the year 1990 are shown in Table 6.1. These estimated losses total 122 billion switched minutes of use and 0.6 million private line circuits. The switched minutes loss estimate represents about a 12 percent increase from the estimate for the previous year.

The estimated revenues losses due to bypass are shown in Table 6.2. It should be noted that these losses represent the telephone companies' unaudited estimates of revenue loss and do not reflect associated cost savings. Also, no attempt has been made to estimate what proportion of these losses are due to uneconomic bypass caused by the CCL charge. The total revenue losses were estimated to be about \$4.0 billion, based on annualized 1990 rates. This represents about a 7 percent increase from the previous year. The lower percentage increase in revenue losses is the result of the reduction in access charges between 1989 and 1990.

To put the latest report in historical perspective, summaries of the four previous bypass reports are shown in Table 6.3. The data in this table reflect subsequent revisions since the original submission of this information, and thus may differ from the data in previous monitoring reports.

While not shown here, each carrier has also submitted data for individual states. This information indicates that estimated bypass is heavily concentrated in the most populous states. The carriers have also reported many new examples of bypass. We note that since these are just examples, their totals cannot be regarded as totals for all new bypass. Therefore, we have not computed such totals. Also, as some companies have noted, some types of bypass are difficult to detect until long after they occur. The number of reported bypass abandonments is small. The descriptive materials included by the carriers in their April 1990 bypass reports are summarized following Table 6.3.

Table 6.1
Estimated Quantity Losses Due to Bypass
April 1991 Report

Company	Facility Private Line	Facility Switched	Service Switched	Total Switched
	Thousands of Circuits	Billions of Minutes of Use		
Ameritech	145	9.5	20.0	29.5
Bell Atlantic	150	8.0	15.6	23.6
BellSouth	46	1.2	6.2	7.4
GTE	7	2.0	5.6	7.6
NYNEX	144	5.9	8.1	14.0
Pacific Telesis	35	2.8	11.0	13.9
Southwestern Bell	46	1.5	9.8	11.3
US West	18	1.0	13.5	14.5
Totals	591	31.8	89.9	121.7

Table 6.2
Estimated Revenue Losses Due to Bypass
April 1991 Report -- (Millions of Dollars)

Company	Facility Private Line	Facility Switched	Service Switched	Total Bypass
Ameritech	86	301	456	843
Bell Atlantic	127	249	272	648
BellSouth	55	43	169	267
GTE	13	96	232	340
NYNEX	232	257	147	636
Pacific Telesis	28	111	430	569
Southwestern Bell	37	45	154	236
US West	18	42	395	455
Totals	595	1,146	2,255	3,995

Table 6.3(a)
Estimated Losses Due to Bypass -- Previous Reports

April '88	Circuits	Billions of Minutes			Revenues in Millions of Dollars			
	Facility Private Line (000)	Facility Switched	Service Switched	Total Switched	Facility Private Line	Facility Switched	Service Switched	Total Bypass
Ameritech	112	7.6	13.5	21.0	113	334	393	840
Bell Atlantic	0	7.2	15.7	22.9	0	348	511	858
BellSouth	0	0.2	8.3	8.5	2	9	273	283
GTE	17	2.6	3.2	5.8	33	86	95	214
NYNEX	0	1.7	8.8	10.5	0	97	226	323
Pacific Telesis	7	1.7	6.6	8.2	11	93	226	330
Southwestern	79	2.9	11.5	14.5	109	131	203	444
US West	8	0.4	12.0	12.4	14	23	337	374
Totals	223	24.3	79.5	103.8	282	1,120	2,264	3,666

Oct. '88	Circuits	Billions of Minutes			Revenues in Millions of Dollars			
	Facility Private Line (000)	Facility Switched	Service Switched	Total Switched	Facility Private Line	Facility Switched	Service Switched	Total Bypass
Ameritech	123	8.3	13.7	22.1	143	370	351	864
Bell Atlantic	133	7.2	16.0	23.2	145	283	404	832
BellSouth	11	0.6	7.2	7.8	14	29	213	257
GTE	10	1.7	3.1	4.8	13	100	178	291
NYNEX	23	1.9	9.0	10.9	35	104	234	373
Pacific Telesis	10	0.8	7.3	8.1	14	45	298	358
Southwestern	118	1.8	10.8	12.6	137	68	136	341
US West	14	0.8	11.3	12.0	20	41	379	440
Totals	442	23.2	78.3	101.5	521	1,041	2,193	3,755

Table 6.3(b)
Estimated Losses Due to Bypass -- Previous Reports

April '89	Circuits			Billions of Minutes			Revenues in Millions of Dollars		
Company	Facility Private Line (000)	Facility Switched	Service Switched	Total Switched	Facility Private Line	Facility Switched	Service Switched	Total Bypass	
Ameritech	127	8.6	13.7	22.3	138	332	329	799	
Bell Atlantic	131	7.0	15.4	22.3	136	271	362	768	
BellSouth	15	0.7	6.1	6.8	19	30	169	219	
GTE	6	0.9	3.2	4.1	8	48	151	207	
NYNEX	60	2.7	9.1	11.9	86	139	212	437	
Pacific Telesis	11	0.9	7.6	8.6	10	52	332	394	
Southwestern	128	1.9	10.3	12.3	139	69	125	332	
US West	15	0.8	10.7	11.5	22	40	313	375	
Totals	493	23.5	76.2	99.7	557	980	1,993	3,531	

April '90	Circuits			Billions of Minutes			Revenues in Millions of Dollars		
Company	Facility Private Line (000)	Facility Switched	Service Switched	Total Switched	Facility Private Line	Facility Switched	Service Switched	Total Bypass	
Ameritech	131	8.9	13.9	22.8	124	320	338	782	
Bell Atlantic	157	8.3	16.0	24.3	131	277	315	723	
BellSouth	21	0.8	5.7	6.5	25	29	161	215	
GTE	5	1.6	4.5	6.1	9	80	200	289	
NYNEX	101	4.8	8.6	13.4	178	238	190	606	
Pacific Telesis	25	2.0	8.8	10.8	21	93	348	462	
Southwestern	48	1.3	9.8	11.1	42	46	163	251	
US West	16	0.9	13.0	13.8	17	37	349	403	
Totals	504	28.5	80.4	108.9	546	1,120	2,066	3,732	

Ameritech

Ameritech reports an increase of approximately 6% in facility switched bypass in terms of minutes of use diverted. Similarly it reports increases of 10% in private line circuits diverted by facility bypass, and an increase of approximately 45% in minutes of use associated with service bypass. Overall revenue loss growth since the April 1990 report is estimated at 8%.

Bell Atlantic

Bell Atlantic reports that bypass continued to displace a significant amount of Bell Atlantic's switched and special access revenues in 1990. It estimates total revenues lost to bypass at \$648 million. Of particular concern to Bell Atlantic are the growing number of fiber optics service and facilities providers which are active in each of its major metropolitan markets. Bell Atlantic reports that it has identified a significant increase in bypass via fiber facilities, which were especially pronounced in its Washington, D. C. and Maryland service areas. Not all the bypass examples shown in Bell Atlantic's report represent new occurrences since the April 1990 report. Some are older cases which have only recently been identified.

Bell Atlantic reports that switchable minutes of use carried on Bell Atlantic Special Access circuits declined slightly from 16 billion to 15.6 billion, reflecting a continued strong migration from voice grade to high capacity access circuits, including DS-1 and DS-3. The loss of equivalent switched access revenues declined from \$556 million to \$492 million, primarily reflecting a further decrease in the composite rate applied to switched access minutes. Bell Atlantic reports a decline in minutes of use and private lines displaced by facility bypass. Displacement by bypass facilities of switched access decreased from an annualized 8.3 billion minutes to 8.0 billion minutes. The number of private lines decreased from 156,680 to 150,143.

BellSouth

BellSouth has not changed its study methodology from last year but also includes fiber data obtained from an additional source. Facility bypass estimates are based upon the number of voice grade equivalent microwave, fiber VSAT and other bypass technology circuits (excluding video). Microwave circuit data was gotten from a March 1991 Comsearch Report by determining the interLATA (interstate and intrastate) two-point and multi-point routes. Fiber optic networks were identified from a March 1991 report by Kessler Marketing Intelligence showing networks in place as of December 1990. That report deals with growth in fiber-based alternate local transport providers (ALTs) and use of fiber by electric utilities for purposes other than maintenance, monitoring, or providing electric power.

BellSouth reports that increases in both minutes of use and revenue lost to Service Bypass are primarily due to an increase of over 76% in the number of HICAP circuits while increases in facility bypass are associated with a

63% increase in VSAT voice grade equivalents and an increase of 13% in microwave VGEs applicable to Facility Bypass.

GTE

GTE estimates that the total 1990 bypass loss is up 24% over the amount estimated for 1989 in terms of minutes of use and up 18% in terms of overall revenue loss. It indicates that 74% of minutes of use lost are to service bypass and 26% to facility bypass. Growth rates for facility and service bypass are reported at 23% and 25% respectively. Especially high levels of facility bypass activity are noted in Florida where metropolitan area networks grew nearly 700%, according to the company.

NYNEX

NYNEX indicates that it has observed a large increase in facility bypass, but only a small increase in service bypass. Also the ratio of facility bypass to service bypass has changed; the impact of service bypass is now less than that of facility bypass. In terms of voice grade equivalent circuits, facility bypass has increased by 49.8%, while service bypass increased only 4.3%. As a result, NYNEX reports that the ratio of service bypass to total bypass has declined from 55.5% to 46.2%. Total bypass as measured in voice grade equivalent circuits has increased 24.7%. The increases in total bypass as measured in minutes of use (MOU) and revenue loss, are 4.7% and 5% respectively. Fill and voice/data ratio factors, as well as price changes, distort the results for comparison purposes with prior reports.

NYNEX reports the offering of colocation by its telephone companies which will greatly expand the reach of alternate access providers, enhancing their ability to provide facilities bypass for special and switched access both for originating and terminating traffic. NYNEX states that these events are combining to create substantial additional alternatives in the access market, alternatives which are not reflected in Bypass Reports to date.

Pacific Telesis

Pacific Bell expects bypass to grow significantly as a result of technological changes and Alternative Access Providers' (AAPs) increased interest in the California market. Both Metropolitan Fiber Systems (MFS) and Teleport Communications have completed networks in San Francisco and Los Angeles. Bay Area Teleport has a network throughout the greater San Francisco Bay Area.

Pacific Bell experienced a 53% increase in lost minutes of use (MOUs) associated with interLATA facility voice bypass. Revenue loss increased only 25% due to downward price changes in switched access MOUs. Revenue loss attributed to facility bypass increased 56%. Minutes of use lost associated

with service bypass increased by 33% while the associated revenue loss only increased 4%.

Southwestern Bell

Southwestern Bell continues to advise caution in comparing aggregate bypass loss estimate data with that previously reported. Although the company aggregate report reflects a decrease in the estimated revenue loss due to bypass, the associated minutes of use lost due to bypass has increased. Thus the revenue loss is due primarily due to a reduction in the average rate per minute for switched services and a reduction in the average rate per circuit for private line circuits.

Southwestern Bell indicates that it cannot fully determine the number of end users employing bypass arrangements. Its study contains examples of bypass which it has been able to document since its April 30, 1990 report and includes examples previously reported.

US West

US West reports that the availability of facility bypass technologies is increasing rapidly with a wide range of bypass technologies available to sophisticated end users and IXCs. These systems can be grouped into two broad categories, radio systems and cable systems. Data reported this year by US West reflects changes in methodology and assumptions. Estimated minutes of use (MOU) bypass increased 11.6% over the April 1990 filing. The estimated number of private line circuits lost to facility bypass-private line increased 11.5% over the April 1990 filing. Minutes of use loss associated with service bypass increased 4.7%.

AT&T Facility Bypass Data

Information from users and providers of bypass arrangements has generally not been forthcoming because the companies involved regard it as proprietary and are not required to file it. AT&T, however, has been required to file monthly facility bypass reports to the FCC since June 1, 1985, in response to an order regarding AT&T Communications' Tariffs 9, 10, and 11.¹ Although this information is just for one company, it is a major one, and although the amount of information available is limited, it is useful as another perspective on bypass.

Table 6.4 shows the number of customer requests received by AT&T for technological bypass involving connections at its central offices, the number

1 Memorandum Opinion and Order, FCC 85-221, released May 28, 1985, at para. 117 and 118.

of agreements under which customers provide access, and the number of agreements where AT&T arranges access through alternative access suppliers. The table also shows the number of DS-1 and DS-3 level channels involved. Each DS-1 can be multiplexed into as many as 24 equivalent 4Khz circuits, each DS-3 can be multiplexed into as many as 672 equivalent 4Khz circuits, although a significant number of the equivalent circuits may not be initially active. Table 6.5 shows the total equivalent 4Khz circuit capacity associated with the indicated bypass arrangements. This was done by weighting the number of DS-1s by 24 and DS-3s by 672. All the data in both tables are provided on an annual basis, showing new amounts for each year and cumulative totals.

AT&T has verbally indicated that much of the capacity shown is associated with vendors (such as urban fiber carriers) who request capacity for their future activities. AT&T indicated that it does not have any record of disconnects of this capacity, nor does AT&T expect that any significant activity in this form existed prior to 1985 when the data was first provided to the Commission.

At the end of 1990, based on Table 6.4 data, about 182,000 potential bypass circuits were linked to AT&T's network. These local bypass circuits can be connected to either end (or both ends) of an AT&T private line circuit. AT&T reports 586,000 private line circuits² or nearly 1.2 million possible connecting points for these local bypass circuits. Thus, perhaps 15% of AT&T's private line terminations can be described as being associated with bypass links.

2 AT&T Section 214 Annual 1990 Blanket Filing, WPC-6639.

Table 6.4

SUMMARY OF AT&T FACILITY BYPASS:

Yearly Totals	Customer Requests	Customer Provided Access			AT&T Provided Access		
		Agreements	DS-1 Channels	DS-3 Channels	Agreements	DS-1 Channels	DS-3 Channels
Total 86	103	9	384	5	3	764	4
Total 87	90	14	644	12	0	0	0
Total 88	116	18	459	7	3	4	0
Total 89	104	39	1,835	19	6	7	3
Total 90	114	36	1,290	0	41	17	2
Cumulative Totals							
Cum '86	177	11	884	9	4	764	8
Cum '87	267	25	1,528	21	4	764	8
Cum '88	383	43	1,987	28	7	768	8
Cum '89	487	82	3,822	47	13	775	11
Cum '90	601	118	5,112	47	54	792	13

Table 6.5

CAPACITY ASSOCIATED WITH BYPASS BY AT&T AND ITS CUSTOMERS

Yearly Totals	Equivalent 4 Khz Circuit Capacity		
	Customer Provided	AT&T Provided	Total Provided
Total 86	12,576	21,024	33,600
Total 87	23,520	0	23,520
Total 88	15,720	96	15,816
Total 89	56,808	2,184	58,992
Total 90	30,960	1,752	32,712
Cumulative Totals			
Cum '86	27,264	23,712	50,976
Cum '87	50,784	23,712	74,496
Cum '88	66,504	23,808	90,312
Cum '89	123,312	25,992	149,304
Cum '90	154,272	27,744	182,016

7. Pooling and Rate Deaveraging

The transition to jurisdictionally-specific Carrier Common Line (CCL) charges occurred on April 1, 1989, for the following local exchange carriers (LECs) that withdrew from the National Exchange Carrier Association (NECA) CCL pool at that time: Ameritech, Bell Atlantic, BellSouth, Centel, Cincinnati Bell, Continental Telcom, GTE, NYNEX, Pacific Telesis, Rochester Telephone, Seneca-Gorham Telephone, Southern New England Telephone, Southwestern Bell, US West, United Telephone Systems, and Warwick Valley. Seneca-Gorham has since been acquired by Rochester Telephone. On July 1, 1990, Great Plains Communications and Hughes Telephone also withdrew from the NECA CCL pool. On July 1, 1991, Lincoln Telephone and Telegraph and Rochester Telephone's other cost study areas also withdrew from the NECA CCL pool.

The latest nationwide pool results provided by NECA are shown in Tables 7.1 and 7.2. Table 7.1 summarizes the CCL pool revenues and expenses for the year 1990 and, separately, for the first four months of 1990. Table 7.2 has corresponding figures for NECA's voluntary traffic sensitive pool.

NECA's latest report on the dimensions of long term support and transitional support payments among the LECs, based on the tariffs that became effective on January 1, 1991, follows. Table 7.3 shows the transitional support payments being received by Level 1 Receivers. The first column of this table shows the base amount from which the payments are calculated, and the third column shows the actual support payments. The transition factors in the second column will decline by .2 each year over a five year transition period. The final column shows the total transitional support to United and Centel after adjustment for their asset exchange. Table 7.4 shows the transitional support payments being made by Level 1 Contributors. Chart 7.1 summarizes the transitional support among carriers that withdrew from the NECA pool. Table 7.5 shows the long term support payments being made by Level 1 Contributors, in support of those companies remaining in the NECA CCL pool. Chart 7.2 summarizes the sources of revenue for the NECA CCL pool, showing the distribution of funds from long term support, CCL charges, subscriber line charges, and special access surcharges. Table 7.6 shows the total support payments being made by Level 1 Contributors.

As an indication of the effect of depooling on CCL rates, Chart 7.3 shows the average CCL rates being charged by the Bell companies and GTE,¹

1 Since depooling, each Bell holding company has a single company-wide terminating CCL rate except NYNEX, which has separate rates for New York Telephone and New England Telephone, and Pacific Telesis, which has separate rates for Pacific Bell and Nevada Bell. Companies (currently BellSouth and GTE) with an average rate over \$.01 are required to charge an originating rate of \$.01 and a higher terminating rate.

as well as the NECA rate for those companies remaining in the NECA pool. For comparison purposes, the average rate that NECA would have had to establish in absence of long term support payments is also shown.

TABLE 7.1
 NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.
 SUMMARY OF POOL RESULTS FOR THE MONTH ENDING DECEMBER 31, 1990
 REPORTED AS OF FEBRUARY 28, 1991

COMMON LINE (CL) (Note 1)	CURRENT MONTH	1990 Pool YTD (Note 2)
Carrier Common Line (CCL) Earned Revenue		
Premium	\$11,993,906	\$151,156,561
Non-premium	\$852,266	\$10,242,170
Special Access Surcharge	\$72,128	\$969,712
CCL Net Realized Uncollectibles	\$210	\$12,089
CCL Net Earned Revenue	\$12,918,090	\$162,356,354
End User Net Earned Revenues (Note 3)	\$28,601,181	\$338,015,374
Total Common Line Net Earned Revenues	\$41,519,271	\$500,371,728
CL Income from Interest Charged Construction	\$0	\$0
Long Term Support	\$21,469,130	\$262,563,073
Total Common Line Revenues	\$62,988,401	\$762,934,801
NECA Administrative Cost	\$1,992,423	\$21,280,597
Average Schedule Company Settlements	\$19,689,607	\$243,145,580
Common Line Expenses and other Taxes	\$28,262,307	\$336,098,460
Common Line Adjusted Federal Income Tax	\$2,490,219	\$31,560,267
Total Common Line Expenses	\$52,434,556	\$632,084,904
Common Line Residue for Distribution (Note 4)	\$10,553,845	\$130,849,897
Common Line Net Investment	\$1,157,954,819	\$1,153,627,221
Annualized Common Line Residue Ratio (Note 5)	10.94%	11.34%

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

Note 2: The 1990 Pool Year is the period beginning January 1, 1990 through December 31, 1990. The Net Investment is an average of the cumulative months reported.

Note 3: Amount includes End User SLC Waiver Revenue for NECA Tariff participants.

Note 4: Residue for Distribution is Total Revenues less Total Expenses.

Note 5: Annualized Residue Ratio in the CURRENT MONTH is calculated by dividing the amount of Residue for Distribution by the amount of Net Investment and multiplying by 12 months X 100. The 1990 Pool YTD is similarly computed except that the calculation is then divided by the number of Pool Year Reporting Periods.

TABLE 7.1
 NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.
 SUMMARY OF POOL RESULTS FOR THE MONTH ENDING APRIL 30, 1991
 REPORTED AS OF JUNE 30, 1991

COMMON LINE (CL) (Note 1)	CURRENT MONTH	1991 Pool YTD (Note 2)
Carrier Common Line (CCL) Earned Revenue		
Premium	\$12,077,294	\$47,282,925
Non-premium	\$715,253	\$2,981,913
Special Access Surcharge	\$63,299	\$262,538
CCL Net Realized Uncollectibles	\$4,715	\$4,950
CCL Net Earned Revenue	\$12,851,131	\$50,522,426
End User Net Earned Revenues (Note 3)	\$29,018,344	\$115,078,513
Total Common Line Net Earned Revenues	\$41,869,475	\$165,600,939
Long Term Support	\$22,151,634	\$86,594,212
Total Common Line Revenues	\$64,021,109	\$252,195,151
NECA Administrative Cost	\$1,698,538	\$6,010,339
Average Schedule Company Settlements	\$19,574,285	\$77,518,827
Common Line Expenses and other Taxes	\$28,513,595	\$113,804,069
Common Line Adjusted Federal Income Tax	\$2,903,931	\$11,037,158
Total Common Line Expenses	\$52,690,349	\$208,370,393
Common Line Residue for Distribution (Note 4)	\$11,330,760	\$43,824,758
Common Line Net Investment	\$1,166,587,607	\$1,162,893,939
Annualized Common Line Residue Ratio (Note 5)	11.66%	11.31%

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

Note 2: The 1991 Pool Year is the period beginning January 1, 1991 through December 31, 1991. The Net Investment is an average of the cumulative months reported.

Note 3: Amount includes End User SLC Waiver Revenue for NECA Tariff participants.

Note 4: Residue for Distribution is Total Revenues less Total Expenses.

Note 5: Annualized Residue Ratio in the CURRENT MONTH is calculated by dividing the amount of Residue for Distribution by the amount of Net Investment and multiplying by 12 months X 100. The 1991 Pool YTD is similarly computed except that the calculation is then divided by the number of Pool Year Reporting Periods.

TABLE 7.2
 NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.
 SUMMARY OF POOL RESULTS FOR THE MONTH ENDING DECEMBER 31, 1990
 REPORTED AS OF FEBRUARY 28, 1991

TRAFFIC SENSITIVE (TS) (Note 1)	CURRENT MONTH	1990 Pool YTD (Note 2)
-----	-----	-----
TS Earned Revenue	\$53,364,586	\$639,971,695
TS Net Realized Uncollectibles	\$14,134	\$20,872
TS Net Earned Revenue	\$53,350,452	\$639,950,823
TS Income From Interest Charged Construction	\$0	\$0
Total Traffic Sensitive Revenues	\$53,350,452	\$639,950,823
NECA Administrative Cost	\$1,241,879	\$11,226,922
Average Schedule Company Settlements	\$19,952,518	\$243,985,519
TS Expenses and other Taxes	\$21,726,044	\$260,486,671
TS Adjusted Federal Income Tax	\$2,111,720	\$25,131,680
Total Traffic Sensitive Expenses	\$45,032,161	\$540,830,792
TS Residue For Distribution (Note 3)	\$8,318,291	\$99,120,031
TS Net Investment	\$778,334,191	\$775,331,889
Annualized Traffic Sensitive Residue Ratio (Note 4)	12.82%	12.78%

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

Note 2: The 1990 Pool Year is the period beginning January 1, 1990 through December 31, 1990. 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 Net Investment and multiplying by 12 months X 100. The 1990 Pool YTD is similarly computed except that the calculation is then divided by the number of Pool Year Reporting Periods.

TABLE 7.2
 NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.
 SUMMARY OF POOL RESULTS FOR THE MONTH ENDING APRIL 30, 1991
 REPORTED AS OF JUNE 30, 1991

TRAFFIC SENSITIVE (TS) (Note 1)	CURRENT MONTH	1991 Pool YTD (Note 2)
-----	-----	-----
TS Earned Revenue	\$54,124,206	\$213,464,832
TS Net Realized Uncollectibles	\$2,929	\$4,901
TS Net Earned Revenue	\$54,121,277	\$213,459,931
Total Traffic Sensitive Revenues	\$54,121,277	\$213,459,931
NECA Administrative Cost	\$1,058,701	\$3,746,251
Average Schedule Company Settlements	\$19,411,857	\$76,689,190
TS Expenses and other Taxes	\$23,914,360	\$95,336,390
TS Adjusted Federal Income Tax	\$1,927,714	\$7,392,205
Total Traffic Sensitive Expenses	\$46,312,632	\$183,164,036
TS Residue For Distribution (Note 3)	\$7,808,645	\$30,295,895
TS Net Investment	\$838,763,865	\$836,047,054
Annualized Traffic Sensitive Residue Ratio (Note 4)	11.17%	10.87%

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

Note 2: The 1991 Pool Year is the period beginning January 1, 1991 through December 31, 1991. 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 Net Investment and multiplying by 12 months X 100. The 1991 Pool YTD is similarly computed except that the calculation is then divided by the number of Pool Year Reporting Periods.

TABLE 7.3

NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.
 LEVEL I & II RECEIVERS
 TRANSITIONAL SUPPORT AMOUNTS
 FOR TEST PERIOD JULY 1, 1991 THRU JUNE 30, 1992

LEVEL I & II RECEIVERS	(1) TRS BASE AMOUNT @ 100%	(2) TRANSITION FACTORS JUL-MAR APR-JUN		(3) ANNUAL TRS SUPPORT*	(4) UNITED-CONTEL ASSET EXCHANGE
BELL SOUTH	\$147,648,853	.4	.2	\$51,677,094	
GTE CORPORATION	\$207,448,673	.4	.2	\$72,607,038	
UNITED TELEPHONE SYSTEM	\$54,325,819	.4	.2	\$19,014,039	\$19,902,706
CONTEL CORPORATION	\$69,465,815	.4	.2	\$24,313,035	\$23,424,366
	----- \$478,889,160 =====			----- \$167,611,206 =====	
	(1) TRS BASE AMOUNT @ 100%	(2) TRANSITION FACTORS JUL-JUN		(3) ANNUAL TRS SUPPORT**	
GREAT PLAINS COMMUNICATIONS	\$608,963	.6		\$365,376	
HUGHES TELEPHONE CO.	\$100,997	.6		\$60,600	
	----- \$709,960 =====			----- \$425,976 =====	
TOTAL ALL COMPANIES	----- \$479,599,120 =====			----- \$168,037,182 =====	

* ANNUAL TRS SUPPORT = (COL 1*.75*.4)+(COL 1*.25*.2) - BELL SOUTH, GTE CORPORATION, UNITED TELEPHONE & CONTEL CORPORATION

** ANNUAL TRS SUPPORT = (COL 1*.6) - GREAT PLAINS COMMUNICATIONS, HUGHES TELEPHONE CO.

TABLE 7.4

NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.
 LEVEL I & OTHER CONTRIBUTORS
 TRANSITIONAL SUPPORT AMOUNTS
 FOR TEST PERIOD JULY 1, 1991 THRU JUNE 30, 1992

LEVEL I & OTHER CONTRIBUTORS	(1) TRS AMOUNT*	(2) CONTRIBUTION FACTORS	(3)=(1)*(2) PAYMENT
SOUTHERN NEW ENGLAND TEL.	\$167,462,884	0.024144629258 **	\$4,043,329
AMERITECH	\$167,462,884	0.418907581190 **	\$70,151,472
BELL ATLANTIC	\$167,462,884	0.407204424667 **	\$68,191,628
NYNEX SVC. CO.	\$167,462,884	0.009698438350 **	\$1,624,128
PACIFIC TELESIS	\$167,462,884	0.029459837696 **	\$4,933,429
SOUTHWESTERN BELL	\$167,462,884	0.046392525252 **	\$7,769,026
CINCINNATI BELL	\$167,462,884	0.025715949951 **	\$4,306,467
CENDEL CORPORATION	\$167,462,884	0.015836540620 **	\$2,652,033
ROCHESTER TELEPHONE CORP. - I	\$167,462,884	0.012633522600 **	\$2,115,646
WARWICK VALLEY	\$167,462,884	0.000666371948 **	\$111,593
U. S. WEST	\$167,462,884	0.009340178467 **	\$1,564,133
LINCOLN TEL & TEL	\$168,037,182	0.002702965050 ***	\$454,199
ROCHESTER TEL. - II	\$168,037,182	0.000714714070 ***	\$120,099
			=====
			\$168,037,182
			=====

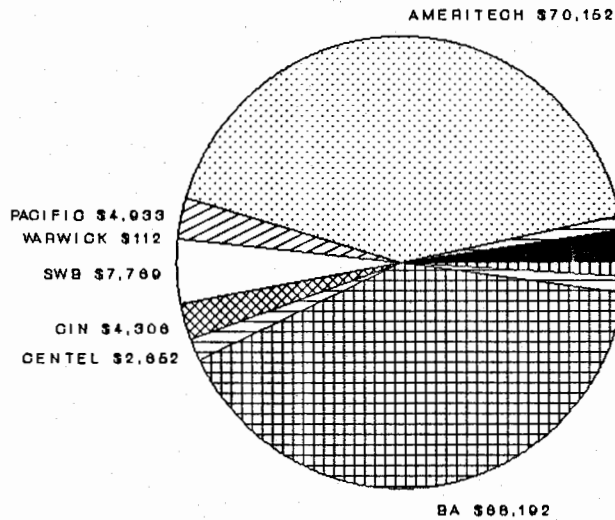
* BELL SOUTH, GTE CORPORATION, UNITED TELEPHONE AND CONTEL CORPORATION ARE CALCULATED AT 40% FOR JUL '91 - MAR '92 AND 20% FOR APR '92 - JUN '92. GREAT PLAINS COMMUNICATIONS AND HUGHES TELEPHONE ARE CALCULATED AT 60% FOR JUL '91 - JUN '92.

** BASED ON 1988R REVENUE DATA

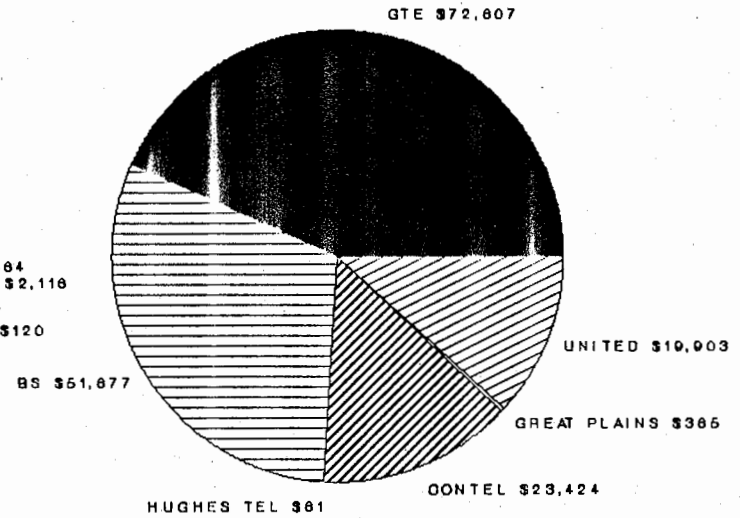
*** BASED ON 1989 1.3 USF LOOP AMOUNTS

CHART 7.1

7/91 THRU 6/92 TRANSITIONAL SUPPORT (\$000s)



CONTRIBUTORS
\$168,037,182



RECEIVERS
\$168,037,182

TABLE 7.5

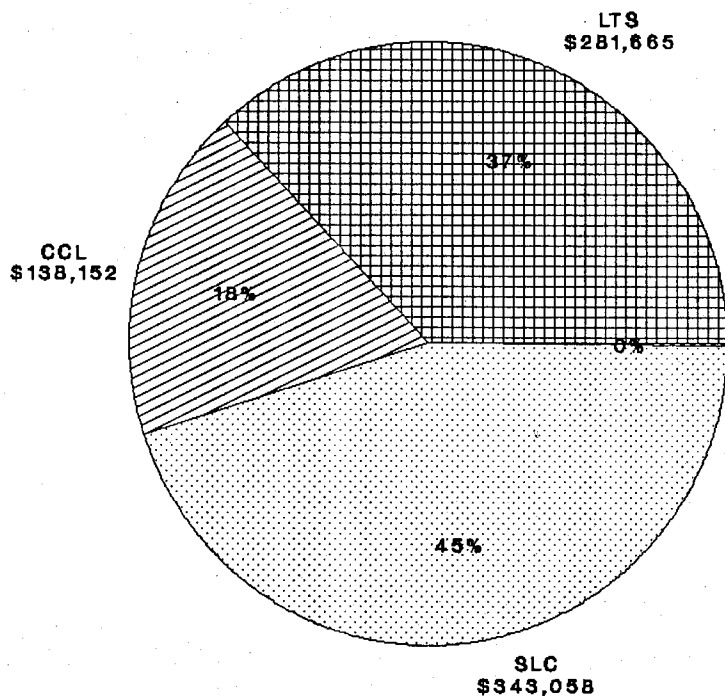
NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.
 LEVEL I & OTHER CONTRIBUTOR LONG TERM SUPPORT PAYMENTS
 FOR TEST PERIOD JULY 1, 1991 THRU JUNE 30, 1992

LEVEL I & OTHER CONTRIBUTORS	(1) LTS AMOUNT	(2) CONTRIBUTION FACTORS	(3)=(1)*(2) ANNUAL LTS
SOUTHERN NEW ENGLAND TEL.	\$280,702,357	0.024144629258 *	\$6,777,454
AMERITECH	\$280,702,357	0.418907581190 *	\$117,588,345
BELL ATLANTIC	\$280,702,357	0.407204424667 *	\$114,303,242
NYNEX SVC. CO.	\$280,702,357	0.009698438350 *	\$2,722,375
PACIFIC TELESIS	\$280,702,357	0.029459837696 *	\$8,269,446
SOUTHWESTERN BELL	\$280,702,357	0.046392525252 *	\$13,022,491
CINCINNATI BELL	\$280,702,357	0.025715949951 *	\$7,218,528
CENTEL CORPORATION	\$280,702,357	0.015836540620 *	\$4,445,354
ROCHESTER TELEPHONE CORP. - I	\$280,702,357	0.012633522600 *	\$3,546,260
WARWICK VALLEY	\$280,702,357	0.000666371948 *	\$187,052
U. S. WEST	\$280,702,357	0.009340178467 *	\$2,621,810
LINCOLN TEL & TEL	\$281,664,998	0.002702965050 **	\$761,331
ROCHESTER TEL. - II	\$281,664,998	0.000714714070 **	\$201,310
			=====
			\$281,664,998
			=====

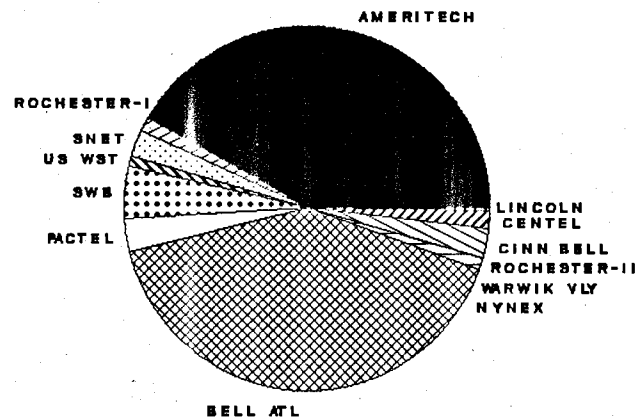
* BASED ON 1988R REVENUE DATA

** BASED ON 1989 1.3 USF LOOP AMOUNTS

7/91 THRU 6/92 COMMON LINE POOL SOURCES OF REVENUE (\$000s)



NECA POOL (\$763,744)



LONG TERM SUPPORT (LTS)

TABLE 7.6

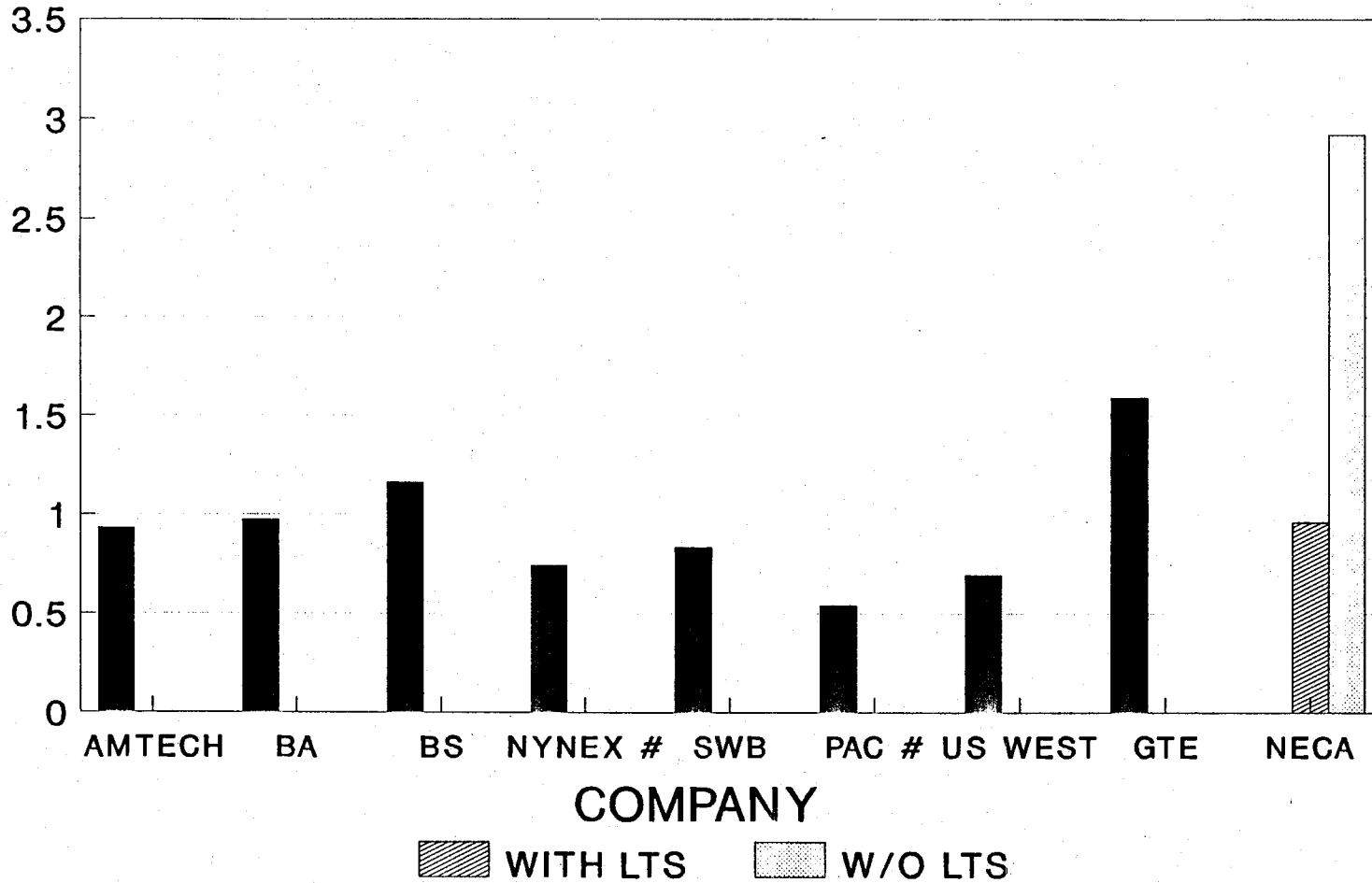
NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.
 LEVEL I & OTHER CONTRIBUTORS
 LTS AND TRS ANNUAL SUPPORT AMOUNTS
 FOR TEST PERIOD JULY 1, 1991 THRU JUNE 30, 1992

LEVEL I & OTHER CONTRIBUTORS	(1) ANNUAL LTS	(2) ANNUAL TRS	(3)=(1)+(2) TOTAL SUPPORT
SOUTHERN NEW ENGLAND TEL.	\$6,777,454	\$4,043,329	\$10,820,783
AMERITECH	\$117,588,345	\$70,151,472	\$187,739,818
BELL ATLANTIC	\$114,303,242	\$68,191,628	\$182,494,871
NYNEX SVC. CO.	\$2,722,375	\$1,624,128	\$4,346,502
PACIFIC TELESIS	\$8,269,446	\$4,933,429	\$13,202,875
SOUTHWESTERN BELL	\$13,022,491	\$7,769,026	\$20,791,517
CINCINNATI BELL	\$7,218,528	\$4,306,467	\$11,524,995
CENDEL CORPORATION	\$4,445,354	\$2,652,033	\$7,097,387
ROCHESTER TELEPHONE CORP. - I	\$3,546,260	\$2,115,646	\$5,661,906
WARWICK VALLEY	\$187,052	\$111,593	\$298,646
U. S. WEST	\$2,621,810	\$1,564,133	\$4,185,942
LINCOLN TEL & TEL	\$761,331	\$454,199	\$1,215,530
ROCHESTER TEL. - II	\$201,310	\$120,099	\$321,408
	=====	=====	=====
	\$281,664,998	\$168,037,182	\$449,702,180
	=====	=====	=====

CHART 7.3

SUMMARIZED EQUALIZED* PREMIUM CCL RATES

7/91 THRU 6/92 RATE IN CENTS PER MINUTE



- * WITH THE EXCEPTION OF BELL SOUTH AND GTE WHICH HAVE SEPARATE ORIGINATING AND TERMINATING RATES (AVERAGED FOR DISPLAY)
- # FOR DISPLAY, NYNEX IS THE AVERAGE OF NEW YORK TEL. AND NEW ENGLAND TEL., AND PAC IS THE AVERAGE OF PACIFIC BELL AND NEVADA BELL