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Report No. DC-1468

ACTION IN DOCKET CASE

July 31, 1989

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

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

In the first of the decisions these reports are designed to monitor, the Commission adopted the recommendations of the Federal-State Joint Board in CC Docket 80-286 to increase subscriber line charges (SLCs), expand the federal lifeline assistance program, retarget the formula for high cost assistance, and modify the common line pooling system. In the second decision, the Commission adopted the recommendation of the Joint Board in CC Docket 86-287 to simplify jurisdictional separations rules and conform them to the recently revised Uniform System of Accounts.

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

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

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

-FCC-

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Monitoring Report

CC Docket No. 87-339

July 1989

Prepared by the Staff of the

Federal-State Joint Board

In CC Docket No. 80-286

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Monitoring Report  
CC Docket No. 87-339  
July 1989

Introduction and Summary

This is the eighth 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 two major decisions adopted by the Federal Communications Commission (Commission) during 1987. In the first of these decisions, the Commission adopted the recommendations of the Federal-State Joint Board in CC Docket No. 80-286 to increase subscriber line charges, expand the federal lifeline assistance program, retarget the formula for high cost assistance, and modify the common line pooling system. In the second decision, the Commission adopted the recommendations of the Federal-State Joint Board in CC Docket No. 86-297 to simplify jurisdictional separations rules and conform those rules to the recently revised Uniform System of Accounts. 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.<sup>1</sup> The reports will continue through July 1992.

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

Since our March monitoring report, new information in each of the eight 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 1989 which shows telephone penetration for households is at an all-time high of 93.0%, although this does not represent a statistically significant change since the previous report. Section 2

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1 Establishment of a Program to Monitor the Impact of Joint Board Decisions, CC Docket No. 87-339, FCC 89-223, Order, released June 30, 1989.

includes information from the recently filed Form 496 lifeline reports for the year 1988. Section 3 includes information on cost changes for individual states and companies. Section 4 includes usage data through March 1989. Section 5 includes Consumer Price Index (CPI) and Producer Price Index (PPI) data through June 1989. The most recent data show that for the first six months of 1989, the nation's overall level of prices rose 3.0% (measured by the CPI for all items). The CPI price of telephone service increased by 0.3% during the same period. The CPI for telephone services is based on a market basket of services purchased by typical consumers and thus includes both local and long distance service. More specifically, the overall CPI for telephone service is composed of three subindexes. During the first six months of 1989, the local service component (including subscriber line charges) increased by 1.4%, while the price of interstate toll calls fell by 1.6%, and the price of state toll calls fell by 1.8%. Section 6 includes the latest estimates of bypass, which show only modest changes from the previous estimates. Section 7 includes the first estimates of the effects of depooling. Section 8 includes the latest developments regarding the timing of reports on jurisdictional shifts.

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. In this report, the topic areas with substantive changes, additions, or proposed modifications, for which we seek comments, are (1) bypass and (2) jurisdictional shifts in revenue requirements. The comments that have been received since the last report are summarized in each section of this report, insofar as they relate to that section. Summaries of comments received relating to changing the frequency and timing of the monitoring and bypass reports were included in the order related thereto, and are not repeated in this report. We plan to continue to include in future reports a list and summary of comments that have been received in the docket in the period since the previous report.

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. In this report we have been able to incorporate all information received prior to June 30, 1989. While materials filed after the formal cutoff date will continue to be included whenever possible, filings received after the deadline will usually appear in the next report. For ease of public reference, we ask that parties submitting materials for the docket provide a duplicate copy to the Public Reference Room of the Common Carrier Bureau's Industry

Analysis Division,<sup>2</sup> where copies of all materials filed in the docket are available for public reference.

In addition to comments relating to specific sections of the monitoring report, which are summarized in those sections, the Colorado Public Utilities Commission (CPUC) also filed general comments, which are summarized here. CPUC requests that parties should not file data more than once, unless the data are augmentations to a previous filing and are needed in order to clarify a trend or fact. It also recommends that parties making filings in this docket put headings on the filings to make it easier for readers to discern the specific subject matters of the filings. CPUC emphasizes the need for filings to follow a coherent and strictly organized format. It contends that monitoring of the Joint Board's plan would be useless without the possibility of changing it. CPUC claims that the imposition of the subscriber line charge goes against logic. It argues that the goal of reducing service pricing discrimination in this docket is misleading, because it pertains to special access.

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SERVICE LIST

All items filed in CC Docket No. 87-339 must be filed with the Secretary, Federal Communications Commission, 1919 M Street, N.W., Room 222, Washington, D.C. 20554, and the following Commissioners and staff members:

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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 1989, 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, because of differences in the sampling methodologies and 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 over time of less than or equal to 0.5% are likely to be due to sampling error and cannot be regarded as statistically significant. 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 0.2% from March to July, followed by a decrease of 0.1% from July to November.

Census Bureau figures for March 1989, the most recent data available, show that the percentage of households subscribing to telephone service has increased by 0.1% to 93.0% in the past year. This increase, however, is not statistically significant. Nevertheless, the new penetration rate is the highest ever reported by the CPS. As a result of the increasing percentage of subscribership and an increasing number of households, 1.7 million households were added to the nation's telephone system between March 1988 and March 1989. The estimated penetration rate for March is up 0.5% from the November level. This increase is also not statistically significant, and it can be largely attributed to seasonal variation.

This section includes figures showing subscribership percentages by state, by householder's age and race, by household size, by family income, and for individual persons by labor force status. The data for individual persons show that 94.0% of those adults in the civilian noninstitutionalized population have a telephone in their household. This figure is up 0.2% from March 1988, and up 0.4% from November 1988. These changes are not statistically significant.

This section contains eleven tables and three 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.

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. The annual averages are the average of the 3 surveys of the year in question.

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

Chart 1.2 shows the states with penetration rates above and below the national average, based on the most recent data in Table 1.2.

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.

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 individuals rather than households, the total penetration rates are different from those in the previous tables. It shows that penetration is lowest among the unemployed.

Chart 1.3 depicts the nationwide penetration rates for individuals graphically, with the values taken from the totals in Table 1.6.

Tables 1.7-1.11 present 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 .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 are based on three surveys and hence have a lower standard error.

#### Comments Filed

Since the last monitoring report, only two parties have filed comments relating to subscribership and penetration levels. On March 28, 1989, Kenneth C. Springirth (Springirth) filed comments that he labeled as a "petition... to reverse subscriber line charge increase". These comments cannot be treated as a petition for reconsideration, because they were not filed in a timely manner for such a petition. However, we do accept them as comments in this docket, and they are summarized below. The State of Colorado Public Utilities Commission (Colorado) filed comments on June 21, 1989.

Springirth asked that the final subscriber line charge (SLC) increase not be implemented on April 1, 1989. He claimed that the SLC was not cost justified. He noted that the penetration statistics showed a decline from 92.9% in March 1988 to 92.5% in November 1988, resulting in a 0.4 million increase in estimated households without telephones. He said that during this period penetration declined in 29 states, including Kentucky, Georgia, Tennessee, and Pennsylvania. He stated that during this period penetration declined for low income families. He argued that the principle of equity generally requires that costs be recovered in some proportion to benefits, and that the SLC does not follow that principle. He expressed belief that the SLC has had a negative effect on telephone penetration levels and is a potential risk to universal telephone service. He asserted that all of the costs of the telephone access line should not be the responsibility of the local service customers. He requested field hearings on SLCs in various parts of the country, including his home city of Erie, Pennsylvania.

Colorado claims that there is no evidence to support the statement in the Joint Board's Second Study and Report "that the largest increases (and the only statistically significant changes) in penetration have been in the lowest income categories." <sup>1</sup> Colorado estimates that the proportion

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1 Second Study and Report, CC Docket No. 87-339, FCC 89J-3, released March 24, 1989, para. 56. The evidence that supports this statement is in the December 1988 Monitoring Reporting, p.12.

of low income households without a telephone declined from 18% in 1970 to 12% in 1980. It argues that the proportion of low income households in Colorado without a phone is higher now due to a severe recession in the Colorado economy and the impact of SLCs. It states that income is a more significant variable than price in determining penetration rates. It reports that its own analysis shows that the penetration rate would have been 0.7% higher if there had been no SLCs, and that during the same period, penetration increased 2.1% due to increases in income. It considers this an indictment of the SLC. It encourages each state to perform a similar penetration analysis and urges the Joint Board to pay close attention to the results of these studies.

TABLE 1.1

## Telephone Penetration in the U.S.

<u>Date</u>	<u>Households</u> (millions)	<u>Households</u> <u>with</u> <u>Telephones</u> (millions)	<u>Percentage</u> <u>with</u> <u>Telephones</u>	<u>Households</u> <u>without</u> <u>Telephones</u> (millions)	<u>Percentage</u> <u>without</u> <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



PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY NATIONAL TOTAL AND STATES - TABLE 1.2

	1983		1984					
	NOVEMBER		MARCH		JULY		NOVEMBER	
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
UNITED STATES	91.4	93.7	91.8	93.6	91.6	93.8	91.4	93.6
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 COL	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
N. CAROLINA	89.3	92.9	88.5	92.2	87.9	91.4	88.5	92.2
N. 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
S. CAROLINA	81.8	84.9	84.5	87.9	83.6	88.1	82.9	87.1
S. 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
W. 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 NATIONAL TOTAL AND STATES - 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 COL	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
N. CAROLINA	88.3	91.9	89.8	92.2	89.2	92.7	89.2	92.2
N. 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
S. CAROLINA	83.7	87.7	87.2	90.6	85.6	90.5	87.6	90.4
S. 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
W. 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 NATIONAL TOTAL AND STATES - 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 COL	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
N. CAROLINA	89.4	92.4	90.0	92.1	90.6	93.0	90.1	92.5
N. 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
S. CAROLINA	86.8	90.5	88.8	91.6	83.8	88.8	86.3	91.4
S. 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
W. 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 NATIONAL TOTAL AND STATES - 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 COL	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
N. CAROLINA	90.2	92.5	89.7	92.1	89.5	91.9	88.5	91.2
N. 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
S. CAROLINA	86.3	90.6	89.0	91.2	85.6	89.0	88.5	91.6
S. 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
W. 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 NATIONAL TOTAL AND STATES - 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 COL	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
N. CAROLINA	89.2	91.7	90.1	92.7	91.2	92.9	89.9	92.8
N. 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
S. CAROLINA	87.7	90.6	88.3	91.6	87.4	91.1	89.7	91.6
S. 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
W. 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 NATIONAL TOTAL AND STATES - TABLE 1 . 2

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

CHART 1.1

# Telephone Penetration

Households

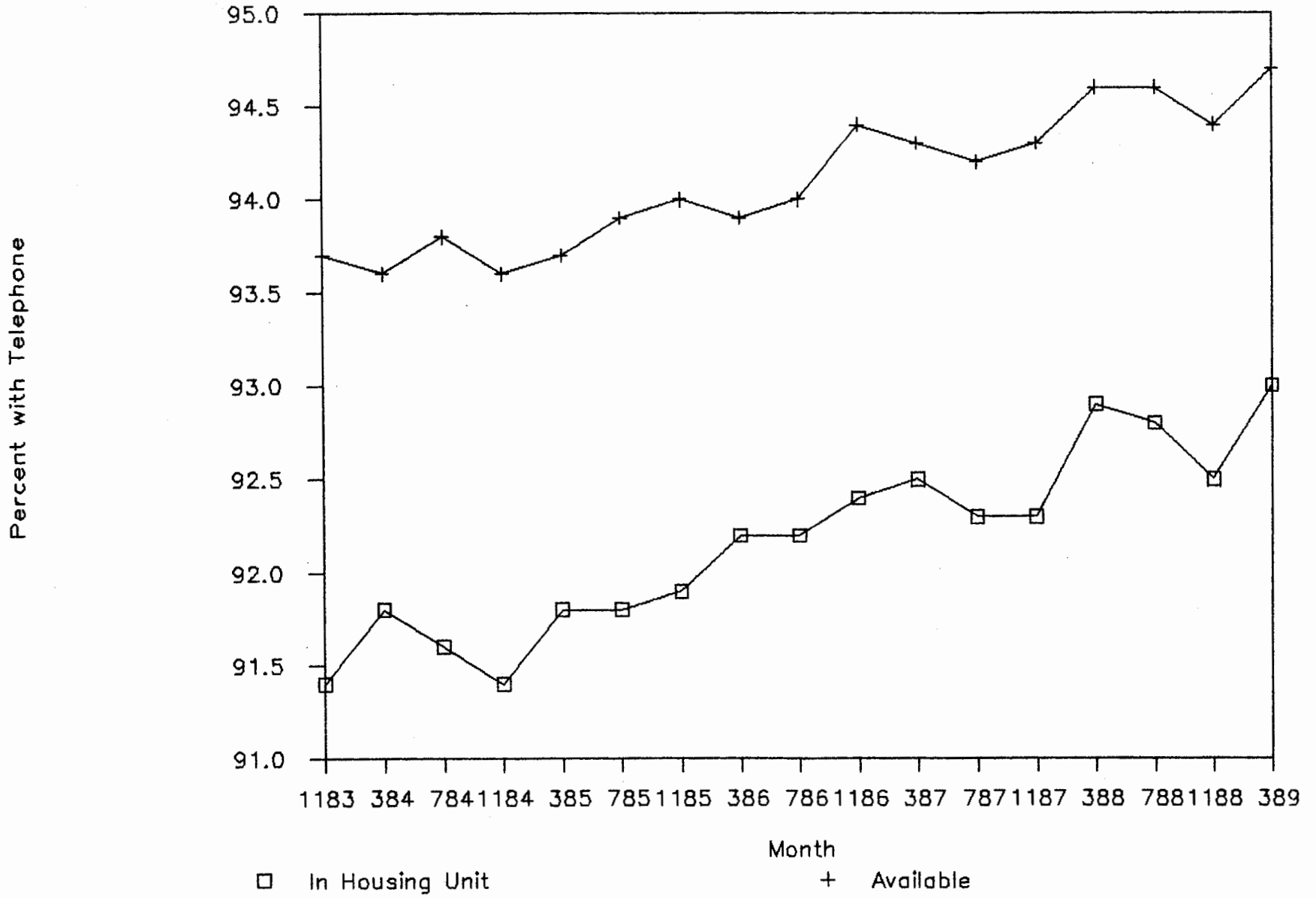
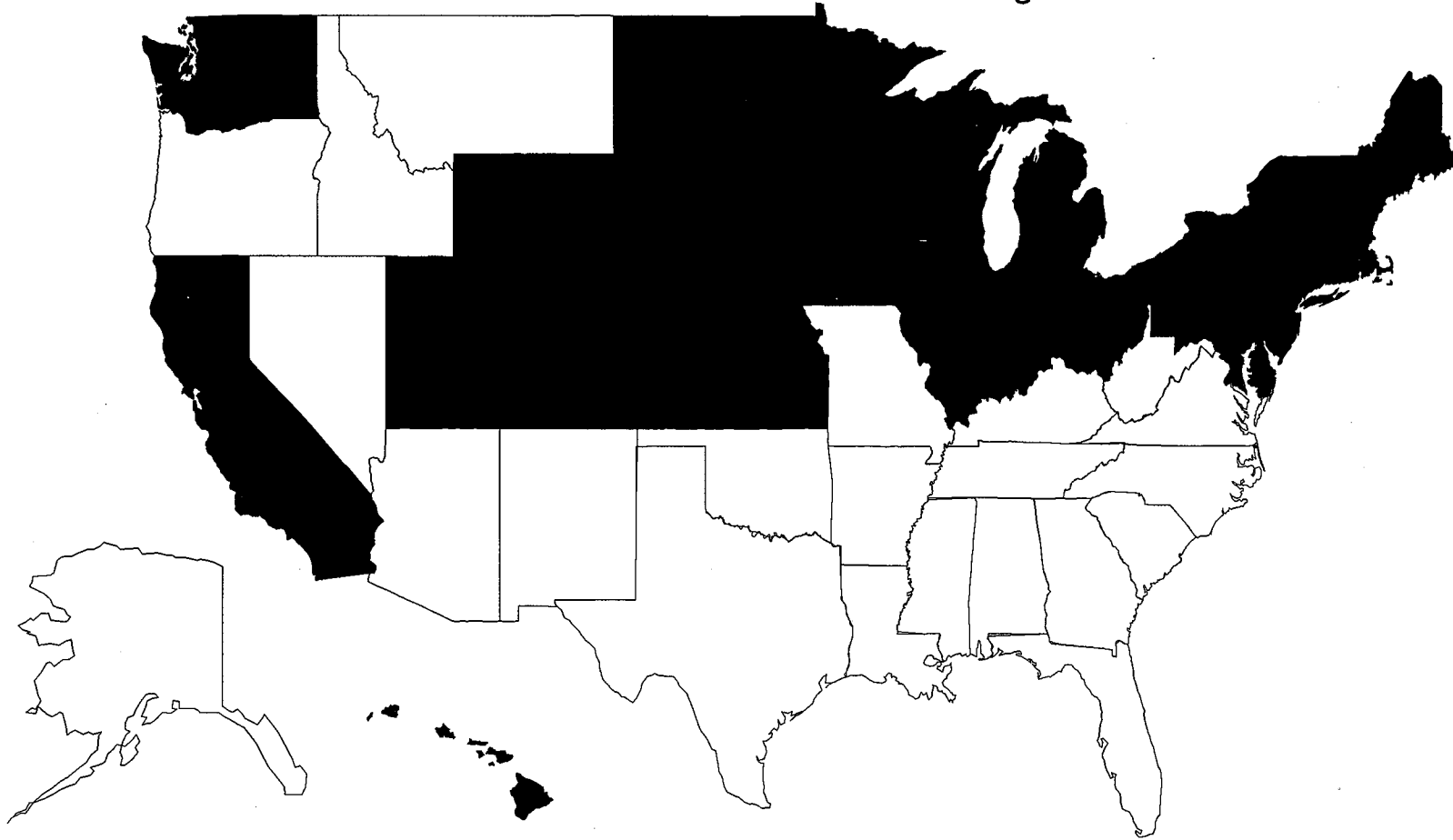


CHART 1.2

# Households With Phones

Above or below national average.



Solid = Above National Average of 93.0%



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	Unit	Avail
<b>NOVEMBER 83</b>								
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
<b>MARCH 84</b>								
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
<b>JULY 84</b>								
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
<b>NOVEMBER 84</b>								
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
<b>1984 ANNUAL AVERAGE</b>								
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
<b>MARCH 85</b>								
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

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
<b>JULY 85</b>								
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
<b>NOVEMBER 85</b>								
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
<b>1985 ANNUAL AVERAGE</b>								
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
<b>MARCH 86</b>								
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
<b>JULY 86</b>								
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
<b>NOVEMBER 86</b>								
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

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
<b>1986 ANNUAL AVERAGE</b>								
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
<b>MARCH 87</b>								
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
<b>JULY 87</b>								
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
<b>NOVEMBER 87</b>								
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
<b>1987 ANNUAL AVERAGE</b>								
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
<b>MARCH 88</b>								
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

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
<b>JULY 88</b>								
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
<b>NOVEMBER 88</b>								
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
<b>1988 ANNUAL AVERAGE</b>								
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
<b>MARCH 89</b>								
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

PERCENTAGE OF FAMILIES WITH A TELEPHONE BY FAMILY INCOME - TABLE 1.4

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail		
<b>NOVEMBER 83</b>								
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
<b>MARCH 84</b>								
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
<b>JULY 84</b>								
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 FAMILIES WITH A TELEPHONE BY FAMILY INCOME - TABLE 1.4

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail		
<b>NOVEMBER 84</b>								
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
<b>1984 ANNUAL AVERAGE</b>								
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
<b>MARCH 85</b>								
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 FAMILIES WITH A TELEPHONE BY FAMILY INCOME - TABLE 1.4

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail		
<b>JULY 85</b>								
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
<b>NOVEMBER 85</b>								
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
<b>1985 ANNUAL AVERAGE</b>								
TOTAL	91.8	93.9	93.3	95.0	81.1	85.2	81.3	84.4
UNDER \$5,000	71.9	78.1	75.3	81.3	63.9	70.6	61.6	67.0
\$5,000 - \$7,499	82.7	86.5	84.8	88.1	74.0	79.8	66.6	71.3
\$7,500 - \$9,999	86.8	90.0	88.1	90.9	80.3	85.0	75.0	79.4
\$10,000 - \$12,499	89.6	92.2	90.8	93.2	82.3	86.0	80.4	82.8
\$12,500 - \$14,999	91.0	93.7	92.2	94.5	82.7	87.8	82.8	85.8
\$15,000 - \$17,499	93.4	95.6	94.2	96.2	88.2	91.8	85.7	88.6
\$17,500 - \$19,999	94.7	96.2	95.1	96.6	91.5	93.4	90.4	92.8
\$20,000 - \$24,999	96.3	97.5	96.5	97.6	94.4	96.3	91.3	93.7
\$25,000 - \$29,999	97.6	98.5	97.8	98.6	95.8	97.3	93.0	95.9
\$30,000 - \$34,999	98.6	99.0	98.7	99.1	97.3	98.4	97.3	97.3
\$35,000 - \$39,999	98.8	99.2	98.9	99.4	96.9	97.8	98.2	99.4
\$40,000 - \$49,999	99.1	99.4	99.1	99.4	97.8	98.2	97.5	98.2
\$50,000 - \$74,999	99.3	99.7	99.4	99.7	97.9	98.8	99.5	99.5
\$75,000 +	99.2	99.5	99.2	99.5	97.6	97.6	98.5	98.5

PERCENTAGE OF FAMILIES WITH A TELEPHONE BY FAMILY INCOME - TABLE 1.4

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail		
<b>MARCH 86</b>								
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
<b>JULY 86</b>								
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
<b>NOVEMBER 86</b>								
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 FAMILIES WITH A TELEPHONE BY FAMILY INCOME - TABLE 1.4

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail		
<b>1986 ANNUAL AVERAGE</b>								
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
<b>MARCH 87</b>								
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
<b>JULY 87</b>								
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 FAMILIES WITH A TELEPHONE BY FAMILY INCOME - TABLE 1.4

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail		
<b>NOVEMBER 87</b>								
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
<b>1987 ANNUAL AVERAGE</b>								
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
<b>MARCH 88</b>								
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 FAMILIES WITH A TELEPHONE BY FAMILY INCOME - TABLE 1.4

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail		
<b>JULY 88</b>								
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
<b>NOVEMBER 88</b>								
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
<b>1988 ANNUAL AVERAGE</b>								
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 FAMILIES WITH A TELEPHONE BY FAMILY INCOME - TABLE 1.4

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail		
<b>MARCH 89</b>								
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

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		
<b>NOVEMBER 83</b>								
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
<b>MARCH 84</b>								
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
<b>JULY 84</b>								
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
<b>NOVEMBER 84</b>								
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

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		
<b>1984 ANNUAL AVERAGE</b>								
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
<b>MARCH 85</b>								
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
<b>JULY 85</b>								
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
<b>NOVEMBER 85</b>								
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

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		
<b>1985 ANNUAL AVERAGE</b>								
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
<b>MARCH 86</b>								
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
<b>JULY 86</b>								
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
<b>NOVEMBER 86</b>								
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

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		
<b>1986 ANNUAL AVERAGE</b>								
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
<b>MARCH 87</b>								
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
<b>JULY 87</b>								
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
<b>NOVEMBER 87</b>								
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



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		
<b>1987 ANNUAL AVERAGE</b>								
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
<b>MARCH 88</b>								
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
<b>JULY 88</b>								
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
<b>NOVEMBER 88</b>								
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		
<b>1988 ANNUAL AVERAGE</b>								
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
<b>MARCH 89</b>								
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

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

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail		
<b>NOVEMBER 83</b>								
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
<b>MARCH 84</b>								
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
<b>JULY 84</b>								
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
<b>NOVEMBER 84</b>								
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
<b>1984 ANNUAL AVERAGE</b>								
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
<b>MARCH 85</b>								
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
<b>JULY 85</b>								
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

PERCENTAGE OF PERSONS 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
<b>NOVEMBER 85</b>								
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
<b>1985 ANNUAL AVERAGE</b>								
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
<b>MARCH 86</b>								
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
<b>JULY 86</b>								
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
<b>NOVEMBER 86</b>								
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
<b>1986 ANNUAL AVERAGE</b>								
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
<b>MARCH 87</b>								
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

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

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail		
<b>JULY 87</b>								
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
<b>NOVEMBER 87</b>								
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
<b>1987 ANNUAL AVERAGE</b>								
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
<b>MARCH 88</b>								
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
<b>JULY 88</b>								
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
<b>NOVEMBER 88</b>								
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
<b>1988 ANNUAL AVERAGE</b>								
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

PERCENTAGE OF PERSONS 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
<b>MARCH 89</b>								
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

CHART 1.3

# Telephone Penetration

Individuals

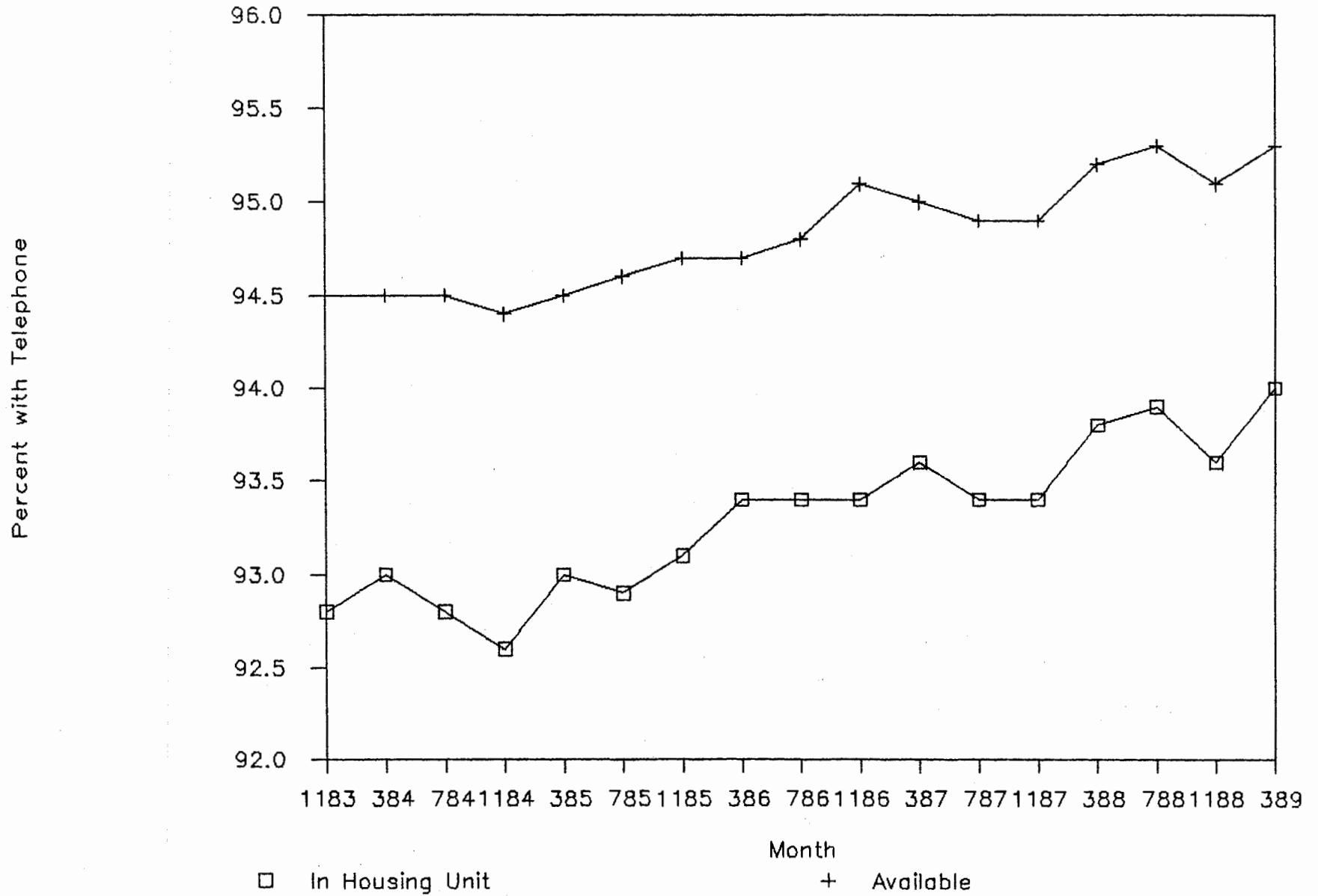


TABLE 1.7

## Critical Values for Determining Significant Differences for States

<u>State</u>	<u>In Unit</u>	<u>Available</u>
Total US	0.5%	0.5%
Alabama	3.6	3.4
Alaska	5.2	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	3.9	2.9
Florida	2.9	2.8
Georgia	5.0	4.6
Hawaii	2.7	2.1
Idaho	4.2	3.4
Illinois	2.1	1.8
Indiana	3.4	2.7
Iowa	3.0	2.3
Kansas	2.5	2.3
Kentucky	5.3	4.8
Louisiana	4.2	3.7
Maine	3.8	3.3
Maryland	3.2	2.7
Massachusetts	2.6	2.3
Michigan	2.6	2.2
Minnesota	2.7	2.4
Mississippi	5.1	4.6
Missouri	3.6	2.9
Montana	5.3	4.3
Nebraska	3.3	3.0
Nevada	5.0	4.3
New Hampshire	4.0	3.4
New Jersey	2.4	2.1
New Mexico	5.8	4.5
New York	2.1	1.8
North Carolina	3.9	3.4
North Dakota	3.9	3.5
Ohio	2.3	1.9
Oklahoma	3.8	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	6.2	5.3
South Dakota	3.7	3.5
Tennessee	4.9	4.3
Texas	2.6	2.3
Utah	4.5	4.5
Vermont	5.4	4.6
Virginia	4.0	3.5
Washington	4.0	3.9
West Virginia	4.4	3.9
Wisconsin	3.2	3.0
Wyoming	4.7	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%	11.1%	10.6%
2 - 3	0.8%	0.7%	0.8%	0.7%	3.5%	3.1%	7.6%	6.9%
4 - 5	1.2%	1.0%	1.2%	1.0%	4.9%	4.2%	8.8%	7.9%
6 +	2.6%	2.3%	2.9%	2.5%	8.7%	7.6%	14.8%	13.4%

TABLE 1.9

## Critical Values for Determining Significant Differences for Income

	ALL RACES		WHITE		BLACK		HISPANIC	
	<u>In</u> <u>Unit</u>	<u>Avail-</u> <u>able</u>	<u>In</u> <u>Unit</u>	<u>Avail-</u> <u>able</u>	<u>In</u> <u>Unit</u>	<u>Avail-</u> <u>able</u>	<u>In</u> <u>Unit</u>	<u>Avail-</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%	3.5%	3.3%	8.7%	8.5%
\$5,000 - \$7,499	1.7%	1.5%	1.8%	1.6%	5.6%	5.1%	11.0%	10.6%
\$7,500 - \$9,999	1.9%	1.7%	2.0%	1.8%	7.1%	6.3%	12.9%	12.3%
\$10,000 - \$12,499	1.8%	1.6%	1.9%	1.7%	7.2%	6.4%	15.7%	14.5%
\$12,500 - \$14,999	2.1%	1.8%	2.1%	1.8%	8.7%	7.6%	17.9%	16.4%
\$15,000 - \$17,499	2.2%	1.9%	2.2%	2.0%	9.4%	8.1%	20.3%	18.4%
\$17,500 - \$19,999	2.3%	2.0%	2.3%	2.0%	10.4%	9.0%	20.3%	18.4%
\$20,000 - \$24,999	1.7%	1.5%	1.7%	1.5%	9.1%	7.8%	16.5%	15.0%
\$25,000 - \$29,999	1.9%	1.7%	1.9%	1.6%	10.9%	9.5%	22.0%	19.8%
\$30,000 - \$34,999	2.0%	1.8%	2.0%	1.7%	12.5%	10.6%	25.1%	22.4%
\$35,000 - \$39,999	2.4%	2.1%	2.4%	2.0%	15.6%	13.2%	28.6%	25.5%
\$40,000 - \$49,999	2.2%	1.9%	2.1%	1.8%	15.1%	12.9%	29.0%	26.0%
\$50,000 - \$74,999	2.3%	1.9%	2.2%	1.9%	16.4%	13.9%	32.3%	28.7%
\$75,000 +	3.5%	3.0%	3.3%	2.9%	45.2%	38.2%	54.0%	49.0%

TABLE 1.10

Critical Values for Determining Significant Differences for Householder's 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%	5.9%	5.5%	10.4%	10.2%
25 - 54 Yrs old	0.7%	0.6%	0.7%	0.6%	2.8%	2.4%	5.9%	5.4%
55 - 59 Yrs old	2.1%	1.8%	2.1%	1.8%	8.9%	7.7%	20.9%	18.8%
60 - 64 Yrs old	2.1%	1.8%	2.1%	1.8%	9.3%	8.1%	24.0%	21.9%
65 - 69 Yrs old	2.3%	2.0%	2.3%	1.9%	10.4%	9.0%	30.3%	27.4%
70 - 99 Yrs old	1.6%	1.4%	1.6%	1.4%	7.9%	6.8%	23.7%	21.5%

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%	3.3%	2.9%	7.3%	6.7%
Employed	1.0%	0.9%	1.0%	0.9%	4.0%	3.5%	9.8%	8.9%
Unemployed	3.1%	2.8%	3.5%	3.1%	9.3%	8.4%	25.3%	23.5%
Not in Labor Force	1.3%	1.1%	1.3%	1.1%	5.1%	4.5%	11.9%	10.9%

## 2. Lifeline Assistance Plans

To further the universal service objectives of the Communications Act, the Joint Board and the FCC established lifeline assistance programs to ensure that low-income subscribers do not drop off the telephone network, and additionally to encourage 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.<sup>1</sup> Table 2.1 lists all the states which are participating in Lifeline and/or Link Up and the date of certification by the FCC.

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 are 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 revenues are not funded by federal tax dollars. Table 2.2 provides a list of local exchange companies offering assistance as reported on FCC Form 496<sup>2</sup> or on "NECA Lifeline Assistance SAC Detail Actual for 7/01/87 - 12/31/87".<sup>3</sup>

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

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1 MTS and WATS Market Structure and Amendment of Part 67 of the Commission's Rules and Establishment of a Joint Board, Decision and Order, CC Docket Nos. 78-72 and 80-286, 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 Red 5266 (1987).

2 These forms were to be filed by May 1, 1989, by the entity (state commission or company) certified by the FCC.

3 Filed by NECA in this docket on September 30, 1988.

geographic availability of the programs. Table 2.3 provides a description of the income means test used by each state as well as the method used to verify applicants' income. This information was taken from the initial letter to the FCC seeking program certification 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;
- b) subject to verification -- procedures must be established which routinely check to ensure that those individuals eligible under the plans are the individuals benefitting under the plan;
- c) availability -- for a single telephone line for the principal residence of eligible households.

The state matching contribution can be in the form of reduced local telephone service rates, reduced connection charges or reduced deposit requirements. No restrictions are imposed on the source of funding for the 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. In order to be eligible for assistance when income is verified a residential subscriber must (1) meet the requirements of a state established income test, and (2) not be a dependent, unless the subscriber is more than 60 years ago. Alternatively, when income is not verified, a residential subscriber may self-certify #1 and #2, and the entity receiving certification (state or company) must verify that the customer (3) has lived at an address where there has been no telephone service for at least three months, and (4) 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.

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 presubscribed lines nationwide.

Table 2.4 provides state and telephone company data on the number of subscribers who receive monthly reductions in telephone bills as a result of the subscriber line charge waiver and matching local rate reductions. This information was taken from Form 496, with the exception California, for which the information was taken from the Report to the California State Legislature for the year ended June 30, 1988, projected. Table 2.5 indicates statewide enrollment in the Link Up America Program and the date implemented by each state. Unless otherwise indicated, this information was taken from Form 496. The exceptions to this are explained in the notes to the table.

The reported costs of lifeline and Link Up programs vary greatly from state to state. There are various reasons for this, including (1) variations in the number of subscribers enrolled and the amount of assistance provided per subscriber; (2) in some states, the phone companies reported separately, rather than through the state public utility commission, and some of these companies were unable to report a start-up or recurring cost, thereby causing the costs to look imbalanced when compared to other states; and (3) Form 496 does not clearly define which costs should be included in each category, and apparently different parties filing the forms have made different interpretations as to which costs should be included in each category. Charts 2.1 and 2.2 show the costs of lifeline and Link Up, respectively, for each state that reported a cost on Form 496. The start-up cost is "Administrative Costs-Start-Up" from Form 496, and the recurring cost is "Annual Administrative Costs-Recurring" from the same form. The lifeline costs for New York and the Link Up costs for Texas were not included in these graphs because the total costs these programs are so much larger than the costs in other states that, if they were included, the costs for the other states would look dwarfed by comparison. Instead, the actual costs for New York and Texas are shown at the bottom of Charts 2.1 and 2.2, respectively. Charts 2.3 and 2.4 demonstrate the cost per person of lifeline and Link Up, respectively, using eight sample states which have reported data in all categories for at least ten months. To arrive at the cost per person, the start-up and recurring costs were divided by the number of subscribers participating in the lifeline or Link Up programs, respectively, in each of the listed states.

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, twenty-six states and the District of Columbia have been certified to offer lifeline assistance pursuant to Plan 2. A total of thirty-nine states, the District of Columbia and Puerto Rico have been certified by the FCC to provide lifeline connection assistance under the Link Up America Program, Plan 3. A total of 44 states, the District of Columbia, and Puerto Rico are participating in some type of federal lifeline assistance program for low income Americans. Colorado lost its lifeline program when state legislative authority expired in February 1989. Governor Roy Romer included a bill for reinstatement of lifeline in a special legislative session. However, the supporting bill did not reach a vote in the short session. The state program offered telephone rate assistance to 17,000 Coloradans.

The Colorado Public Utilities Commission (CPUC) has filed comments in this docket, arguing that lifeline and Link Up America were created to "counteract a policy which does not serve all groups equitably." CPUC states that the need for these two programs represents the "failure of the Subscriber Line Charge (SLC) policy and the FCC's procompetitive policies in general."

CPUC disagrees with the underlying structure of the lifeline assistance plan which provides each state with "considerable latitude in selecting means tests, shaping the benefits, and determining the geographic availability of the programs." CPUC states that "legislatures are not highly cognizant of the proceedings of the Joint Board". CPUC points to the Colorado legislature's sunset of the state's lifeline program as an example of the need for greater "central control over these programs" to provide "an adequate, standardized form of assistance for low income groups."

In addition, CPUC urges the Joint Board to consider the inequity between state programs, and notes that California's lifeline program, with 42.9% of the total lifeline funds nationwide, is "receiving a disproportionate amount of benefit from lifeline assistance." CPUC places emphasis on the need to market lifeline assistance programs with the need not "only to increase public awareness of low income assistance programs" but also to get this message across "to those entities in each state (such as legislatures) who are in charge of eligibility requirements and distribution of benefits."



Table 2.1

Lifeline and Connection Assistance Programs:  
Date of Approval

State	Lifeline	Link Up
Alabama		10/01/87
Arizona	11/14/86	1/15/88
Arkansas	5/22/86	10/01/87
California	1/01/85*	
Colorado	7/25/86**	11/13/87**
Connecticut		11/13/87
Distict of Columbia	3/18/86	8/19/87
Florida		8/01/88
Hawaii	10/27/86	
Idaho	7/24/87	5/12/89
Indiana		4/25/88
Iowa		3/10/88
Kansas		1/27/88
Kentucky		12/24/87
Louisiana		10/25/88
Maine	8/11/87	8/11/87
Maryland	5/22/86	10/01/87
Michigan	1/24/89	1/24/89
Minnesota	1/27/88	1/27/88
Mississippi		4/27/88
Missouri	10/01/87	12/28/87
Montana	8/11/87	8/11/87
Nebraska		3/17/88
Nevada	4/28/87	9/07/88
New Hampshire		11/03/88
New Jersey		11/13/87
New Mexico	4/01/87	1/15/88
New York	11/02/87	8/11/87
North Carolina	5/22/86	10/19/87
North Dakota		12/24/87
Ohio	7/01/87	10/01/87
Oregon	5/22/86	5/05/88
Pennsylvania		6/02/88
Puerto Rico		11/17/88
Rhode Island	9/21/87	9/21/87
South Carolina		12/24/87
South Dakota	3/25/88	3/25/88

Tennessee		11/03/88
Texas	7/12/88	10/01/87
Utah	12/31/86	3/17/88
Vermont	10/01/86	
Virginia	12/24/87	12/24/87
Washington	7/24/87	
West Virginia	7/25/86	9/11/87
Wisconsin	7/14/89	7/14/89
Wyoming		1/24/89

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

\*\* The Colorado lifeline and Link Up plans expired in legislative sunset provisions.

TABLE 2.2

CERTIFIED LIFELINE AND LINK UP TELEPHONE COMPANIES

ALABAMA

Alltel Alabama*	Monroeville Telephone Co.*
Blountsville Telephone Co.*	Mon-Cre Telephone Coop.*
Brindlee Mountain*	Moundville Telephone Co.*
Butler Telephone Co.*	National of Alabama*
Castleberry Telephone Co.*	New Hope Telephone Coop.*
Contel of the South*	Oakman Telephone Co.*
Farmers Telephone Coop.*	Oneonta Telephone Co.*
Goshen Telephone Co.*	Peoples Telephone Co.*
Graceba Total Comm.*	Pine Belt Telephone Co.*
Grove Hill Telephone Corp.*	Ragland Telephone Co.*
GTE South, Inc.*	Roanoke Telephone Co.*
Gulf Telephone Co.*	South Central Bell*
Hayneville Telephone Co.*	Southeast MS Telephone Co.*
Hopper Telephone Co., Inc.*	Southland Telephone Co.*
Lamar County Telephone Co.*	Union Springs Telephone Co.*
Millry Telephone Co.*	

ARIZONA

Arizona Telephone Co.	Rio Virgin Telephone Co.
Citizens Utilities Co.	South Central Utah Telephone
Contel of the West	Southwestern Telephone Co.
Continental Tel. of California	Universal Tel. Co. of Southwest
Navajo Communications Co.	US West Communications**
Papago Tribal Utility Authority	Valley Telephone Cooperative, Inc.

ARKANSAS

Alltel*	Northern Arkansas Telephone*
Arkansas Telephone Co.*	Perco Telephone*
Central Arkansas Telephone*	Prairie Grove Telephone*
Century Telephone*	Redfield Telephone*
Contel of Arkansas, Inc.*	Rice Belt Telephone*
Decatur Telephone Co.*	South Arkansas Telephone*
E. Ritter Telephone*	Southwest Arkansas Telephone*
GTE Southwest, Inc.*	Southwestern Bell Telephone Co.**
Lavaca Telephone*	Tri-County Telephone*
Liberty Communications*	Union Telephone Co.*
Liberty Telephone*	United Telephone System*
Madison County Telephone*	Walnut Hill Telephone*
Magazine Telephone*	Yelcot Telephone Co.*
Mountain Home Telephone*	Yell County Telephone*
Mountain View Telephone*	

CALIFORNIA

Calaveras Telephone Co.	Kerman Telephone Co.
Contel of California	Ponderosa Telephone Co., The

CALIFORNIA (CONT.)

CP National Corp.-CA	Roseville Telephone Co.
Citizens Utilities of CA	Sierra Telephone Co.
California-Oregon Tel. Co.	Siskiyou Telephone Co., The
Ducor Telephone Co.	Tuolumne Telephone Co.
Evans Telephone Co.	Volcano Telephone Co., The
Foresthill Telephone Co.	West Coast Telephone of CA
GTC of California	Pinnacles Telephone Co.
Happy Valley Telephone Co.	Pacific Bell
Hornitos Telephone Co.	

COLORADO

US West Communications\*\*

CONNECTICUT

New York Telephone Co.*	Woodbury Telephone*
Southern New England Tel. Co.*	

DISTRICT OF COLUMBIA

Chesapeake & Potomac Tel. Co.\*\*

FLORIDA

Alltel Florida, Inc.*	Northeast Florida*
Centel of Florida*	Quincy Telephone Co.-Florida*
Florida Telephone Co.*	Southern Bell-Florida*
GTE Florida, Inc.*	Southland Telephone-Florida*
Gulf Telephone Co.*	St. Joseph Tel. & Tel.*
Indiantown System*	United Tel. Co. of Florida*

HAWAII

GTE Hawaiian Telephone Co., Inc.

IDAHO

Albion Telephone Co., Inc.	Midvale Telephone Exchange, Inc.
Cambridge Telephone Co.	Mountain Bell-Idaho
Century Telephone of Idaho	Mud Lake Telephone Coop.
Contel of the West, Inc.-Idaho	Pacific NW Bell-Idaho
Custer Telephone Coop.	Potlatch Telephone Co., Inc.
Farmers Mutual Telephone	Project Mutual Telephone
Filer Mutual Telephone of Idaho	Rockland Telephone Co., Inc.
Gem State Util. of Idaho	Rural Telephone Co. of Idaho
GTE Northwest, Inc.-Idaho	Silver Stat Telephone Co. of Idaho
Inland Telephone of Idaho	Troy Telephone Co.

INDIANA

Indiana Bell\*

IOWA

Ace Telephone Assoc.*	Marne & Elk Horn Telephone Co.*
Amana Society Service Co.*	Martelle Coop. Telephone Assn.*
Andrew Telephone Co., Inc.*	Massena Telephone Co.*
Arcadia Telephone Coop.*	Mediapolis Telephone Co.*
Atkins Telephone Co., Inc.*	Mid-Iowa Telephone Coop.*
Ayrshire Farmers Mutual Tel. Co.*	Miles Coop. Telephone Assn.*
Barnes City Coop. Telephone Co.*	Miller Telephone Co.*
Bernard Telephone Co.*	Minburn Telephone Co.*
Blue Earth Valley Telephone Co.*	Minerva Valley Tel. Co., Inc.*
Breda Telephone Corp.*	Modern Coop. Telephone Co.*
Brooklyn Mutual Telephone Co.*	Montezuma Mutual Telephone Co.*
Burt Telephone Co.*	Morley Telephone Co., Inc.*
Butler-Bremer Mutual Tel. Co.*	Mutual Telephone Co.*
Cannon Valley Telephone Co., Inc.*	North English Coop. Tel. Co.*
Cascade Telephone Co.*	Northeast Iowa Telephone Co.*
Casey Mutual Telephone Co.*	Northern Iowa Telephone Co.*
Center Junction Telephone Co.*	Northwest Telephone Coop. Assn.*
Central Scott Telephone Co.*	Northwestern Bell Telephone Co.*
Central Telephone Co.*	Norway Rural Telephone Co.*
Citizens Mutual Telephone Co.*	Ogden Telephone Co.*
Clarence Telephone Co., Inc.*	Olin Telephone Co., Inc.*
Clear Lake Ind. Telephone Co.*	Onslow Coop. Telephone Assn.*
Colo Telephone Co.*	Oran Mutual Telephone Co.*
Contel of Iowa, Inc.*	Palmer Mutual Telephone Co.*
Coon Creek Telephone Co.*	Palo Coop. Telephone Assn.*
Coon Valley Coop., Inc.*	Panora Coop. Telephone Assn., Inc.*
Coop Telephone Co.*	Peoples Telephone Co.*
Coop Telephone Exchange*	Postville Telephone Co.*
Corn Belt Telephone Co.*	Prairie Telephone Co., Inc.*
Cumberland Telephone Co.*	Prairieburg Telephone Co., Inc.*
C.M.L. Telephone Coop. Assn.*	Preston Telephone Co.*
Danville Mutual Telephone Co.*	Radcliffe Telephone Co.*
Deep River Mutual Telephone Co.*	Readlyn Telephone Co.*
Defiance Telephone Co., Inc.*	Ringstead Telephone Co.*
Dixon Telephone Co.*	River Valley Telephone Coop.*
Dumont Telephone Co.*	Rockwell Coop. Telephone Assn.*
Dunkerton Telephone Coop.*	Royal Telephone Co.*
East Buchanan Telephone Coop.*	Ruthven Telephone Exchange Co.*
Ellsworth Coop. Telephone Assn.*	Sac Co. Mutual Telephone Co.*
Farmers Coop. Telephone Co.*	Schaller Telephone Co.*
Farmers Mutual Coop. Telephone*	Schuyler Telephone Co.*
Farmers Telephone Co.*	Scranton Telephone Co.*
Farmers & Businessmen's Tel. Co.*	Searsboro Telephone Co.*
Farmers & Merchants Mutual Tel.*	Sharon Telephone Co.*
Fenton Coop. Telephone Co.*	Shell Rock Telephone Co.*
Goldfield Telephone Co.*	Sioux Valley Telephone Co.*
Grand Mound Coop. Tel. Assn.*	South Slope Coop. Tel. Co., Inc.*
Grand River Mutual Tel. Corp.*	Southwest Telephone Exchange, Inc.*
Griswold Coop. Telephone Co.*	Spring Grove Coop. Telephone Co.*
GTE North, Inc.*	Stratford Mutual Telephone Co.*
Harmony Telephone Co.*	Superior Telephone Coop.*

IOWA (CONT.)

Hawkeye Telephone Co.*	Swisher Telephone Co.*
Heart of Iowa Telephone Coop.*	Templeton Telephone Co.*
Hills Telephone Co., Inc.*	Terril Telephone Co.*
Hospers Telephone Exchange*	Titonka Telephone Co.*
Hubbard Coop. Telephone Assn.*	United Farmers Telephone Co.*
Huxley Coop. Telephone Co.*	United Tel. Co. of Minnesota*
IAMO Telephone Co.*	Van Buren Telephone Co., Inc.*
Interstate 35 Telephone Co., Inc.*	Van Horne Coop. Telephone Co.*
Jefferson Telephone Co.*	Villisca Farmers Telephone Co.*
Jordan-Soldier Valley Coop. Tel.*	Walnut Telephone Co.*
Kalona Coop. Telephone Co.*	Webb-Dickens Telephone Corp.*
Keystone Farmers Coop. Tel. Co.*	Webster-Calhoun Coop. Tel. Assn.*
LaMotte Telephone Co., Inc.*	Wellman Coop. Telephone Assn.*
LaPorte City Farmers Mutual Tel.*	West Iowa Telephone Co.*
Laurel Telephone Co., Inc.*	West Liberty Telephone Co.*
Lehigh Valley Coop. Tel. Assn.*	Western Iowa Telephone Assn.*
Lincoln Tel. & Telegraph Co.*	Westside Ind. Telephone Co.*
Lone Rock Coop. Telephone Co.*	Wilton Telephone Co.*
Lost Nation-Elwood Tel. Co.*	Winnebago Coop. Telephone Assn.*
Lynnville Comm. Tel. Co., Inc.*	Woolstock Mutual Telephone Assn.*
Mabel Coop. Telephone Co.*	Wyoming Mutual Telephone Co.*
Manilla Telephone Co.*	

KANSAS

Assaria Telephone Exchange*	Moundridge Telephone Co.*
Blue Valley Telephone Co.*	Mutual Telephone Co.*
Columbus Telephone Co.*	Peoples Telephone Co.*
Contel of Kansas*	Pioneer Telephone Assoc.*
Council Grove Telephone Co.*	Rainbow Telephone Corp.*
Craw-Kan Telephone Corp.*	Rural Telephone Service Co.*
Cunningham Telephone Co.*	S & A Telephone Co.*
Elkhart Telephone Co.*	S & T Telephone Coop.*
Golden Belt Telephone Assoc.*	South Central Telephone Co.*
Gorham Telephone Co.*	Southern Kansas Telephone Co.*
H & B Communications*	Sunflower Telephone Co.*
Haviland Telephone Co.*	Totah Telephone Co.*
Home Telephone Co.*	Tri-County Telephone Assoc.*
JBN Telephone Co.*	Twin Valley Telephone*
Kansas State Telephone*	United Telephone Association*
Kan-Okla Telephone Assoc.*	Wamego Telephone Co.*
LaHarpe Telephone Co.*	Wheat State Telephone Co.*
Madison Telephone Co.*	Wilson Telephone Co.*
MO-KAN Dial*	Zenda Telephone Co.*

KENTUCKY

Alltel Kentucky, Inc.*	Logan Telephone Coop., Inc.*
Ballard Rural Tel. Coop. Corp.*	Mountain Rural Tel. Coop. Corp.*
Brandenburg Telephone Co., Inc.*	North Central Tel. Coop., Inc.*
Cincinnati Bell Tel. Co., Inc.*	Peoples Rural Tel. Coop. Corp.*
Contel of Kentucky, Inc.*	South Central Bell Telephone Co.*

KENTUCKY (CONT.)

Duo County Telephone Coop. Corp.\* South Central Rural Tel. Coop. Corp.\*  
GTE South, Inc.\* West Kentucky Rural Tel. Coop. Corp.\*  
Harold Telephone Co., Inc.\*

LOUISIANA

Athens Telephone Co.*	Kaplan Telephone Co.*
Caddoan Telephone Co.*	Lafourche Telephone Co.*
Cameron Telephone Co.*	Louisiana Western*
Campti-Pleasant Hill*	Northeast Louisiana*
Central Louisiana*	Northwest Louisiana*
Century Telephone Co.*	Plain Dealing Telephone Co.*
Chatham Telephone Co.*	Reserve Telephone Co.*
Coastal Tel. & Electric*	Ringgold Telephone Co.*
Delcambre Telephone Co.*	South Central Bell*
East Ascension Telephone*	Star Telephone Co.*
Elizabeth Telephone Co.*	United Telephone Co.*
Evangeline Telephone Co.*	

MAINE

Bryant Pond Telephone Co.**	Oxford County Telephone Co.**
China Telephone Co.**	Pine Tree Telephone Co.**
Cobbosseecontee Telephone Co.**	Saco River Telephone Co.**
Contel of Maine, Inc.**	Somerset Telephone Co.**
Hampden Telephone Co.**	Standish Telephone Co.**
Hartland & St. Albans Tel. Co.**	Union River Telephone Co.**
Island Telephone Co., The**	Unity Telephone Co.**
Lincolnton Telephone Co.**	Warren Telephone Co.**
New England Telephone Co.**	West Penobscot Telephone Co.**

MARYLAND

Chesapeake & Potomac Telephone Co.\*\*

MICHIGAN

Michigan Bell\*\*

MINNESOTA

Ace**	Lowry**
Albany**	Mabel**
Arrowhead**	Madelia**
Arvig**	Manchester**
Barnsville**	Mankato**
Benton**	Melrose**
Blackduck**	Mid-Communications**
Blue Earth**	Mid-State**
Bridgewater**	Midwest**
Callaway**	Minnesota Lake**
Cannon Valley**	Minnesota Valley**

MINNESOTA (CONT.)

Central**	New Ulm**
Chester**	Norman City**
Clara City**	Northern**
Clements**	Northland**
Consolidated**	Osakis**
Contel**	Park Region**
Contel of Iowa**	Paul Bunyan**
Crosslake**	Peoples**
Danube**	Pine Island**
Deer River**	Polar Rural**
Delavan**	Red River**
Deuel**	Redwood County**
Dunnell**	Rock Deli**
Eagle Valley**	Rothsay**
East Ottertail**	Runestone**
Easton**	Sacred Heart**
Eckles**	Scott Rice**
Emily**	Sherburne**
Farmers Mutual**	Sioux Valley**
Federated**	Sleepy Eye**
Felton**	Solon Springs**
Garden Valley**	Southwest**
Gardonville**	Split Rock**
General**	Spring Grove**
Granada**	Starbuck**
Halstad**	Twin Valley Ulen**
Hancock**	United**
Harmony**	Upsala**
Hills**	US West**
Hohman**	Valley**
Home**	West Central**
Hutchinson**	Western**
Interstate Telecom.**	Wikstrom**
Johnson**	Winnebago**
Kasson Mantorville**	Winstead**
KMP**	Winthrop**
Lakedale**	Wolverton**
Lismore**	Woodstock**
Lismore**	Zumbrota**
Lonsdale**	

MISSISSIPPI

Franklin Telephone Co., Inc.*	Mound Bayou Tel. & Comm., Inc.*
Fulton Telephone Co., Inc.*	South Central Bell Telephone Co.*
Mid-South Telephone Co.*	

MISSOURI

Alltel of Missouri, Inc.*	Southwestern Bell Telephone Co.**
Contel System of Missouri*	United Tel. Co. of Missouri*
GTE of Missouri*	



MONTANA

GTE Northwest, Inc.\*\*

NEBRASKA

Arapahoe Telephone Co.*	Home Telephone Co.*
Arlington Telephone Co.*	Hooper Telephone Co.*
Benkelman Telephone Co.*	K & M Telephone Co.*
Blair Telephone Co.*	Keystone-Arthur Telephone Co.*
Cambridge Telephone Co.*	Lincoln Telephone & Telegraph*
Clarks Telephone Co.*	Nebraska Central Telephone Co.*
Consolidated Telco, Inc.*	Northeast Nebraska Telephone Co.*
Cozad Telephone Co.*	Northwestern Bell Telephone Co.*
Curtis Telephone Co.*	Petersburg Telephone Co.*
Dalton Telephone Co.*	Pierce Telephone Co.*
Diller Telephone Co.*	Plainview Telephone Co.*
Eastern Nebraska Telephone*	Rock County Telephone Co.*
Eustis Telephone Exchange*	Rodeo Telephone, Inc.*
GTE North, Inc.*	Southeast Nebraska Telephone Co.*
Glenwood Tel. Membership Corp.*	Stanton Telephone Co.*
Great Plains Comm.*	Three River Telco*
Hamilton Telephone Co.*	United Telephone Co. of the West*
Hartington Telephone Co.*	Wauneta Telephone Co.*
Hartman Telephone Exchange*	

NEVADA

Central Telephone Co. of Nevada\*\* Nevada Bell\*\*

NEW HAMPSHIRE

Bretton Woods Telephone Co.*	Kearsarge Telephone Co.*
Chichester Telephone Co.*	Meriden Telephone Co.*
Contel of New Hampshire*	Merrimack County Telephone*
Dixville Telephone Co.*	New England Telephone Co. of NH*
Dunbarton Telephone Co.*	Union Telephone Co.*
Granite State Telephone*	Wilton Telephone Co. of NH*

NEW JERSEY

New Jersey Bell*	Warwick Valley Telephone*
United Telephone Co. of NJ, Inc.*	

NEW MEXICO

Contel of the West-New Mexico**	Western New Mexico Tel. Co., Inc.**
US West Communications**	

NEW YORK

Alltel New York, Inc.**	Margaretville Telephone Co., Inc.**
Armstrong Telephone Co.**	Middleburgh Telephone Co., The**

NEW YORK (CONT.)

Ausable Valley Telephone Co.**	Newport Telephone Co.**
Berkshire Telephone Corp.**	New York Telephone Co.**
Cassadaga Telephone Corp.**	Nicholville Telephone Co., Inc.**
Champlain Telephone Co., The**	Ogden Telephone Co.**
Chautauqua & Erie Tel. Corp.**	Oneida County Rural Telephone Co.**
Chazy & Westport Tel. Corp.**	Ontario Telephone Co., Inc.**
Citizens Tel. Co. of Hammond**	Oriskany Falls Telephone Corp.**
Clymer Telephone Co., The**	Pattersonville Telephone Co.**
Contel of New York, Inc.**	Port Byron Telephone Co.**
Crown Point Telephone Corp.**	Rochester Telephone Corp.**
Delhi Telephone Co.**	Seneca-Gorham Telephone Co.**
Deposit Telephone Co., Inc.**	State Telephone Co.**
Dunkirk & Fredonia Tel. Co.**	Sylvan Lake Telephone Co., Inc.**
Edwards Telephone Co., Inc.**	Taconic Telephone Co.**
Empire Telephone Corp.**	Township Telephone Co., Inc.**
Fishers Island Tel. Corp., The**	Trumansburg Home Telephone Co.**
Germantown Telephone Co., Inc.**	Vernon Telephone Co., Inc.**
Hancock Telephone Co., The**	Warwick Valley Telephone Co.**
Highland Telephone Co.**	

NORTH CAROLINA

Alltel Carolina**	Lexington Telephone Co.**
Barnardsville Telephone Co.**	Mebane Home Telephone Co.**
Carolina Telephone & Telegraph**	North State Telephone Co.**
Central Telephone Co. of NC**	Pineville Telephone Co.**
Citizens Telephone Co.**	Randolph Membership**
Concord Telephone Co.**	Randolph Telephone Co.**
Contel of North Carolina**	Saluda Mountain Telephone Co.**
Contel of Virginia**	Sandhills Telephone Co.**
Ellerbe Telephone Co.**	Service Telephone Co.**
GTE South, Inc. of NC**	Southern Bell of NC**
Heins Telephone Co.**	

NORTH DAKOTA

BEK Telephone Mutual Aid Corp.*	Northern States Power*
Consolidated Telephone Coop.*	Northwest Comm. Coop.*
Contel of North Dakota, Inc.*	Northwestern Bell Tel. Co.*
Dakota Central Rural Tel. Coop.*	Polar Comm. Mutual Aid Corp.*
Dickey Rural Telephone Coop.*	Reservation Telephone Coop.*
Halstad Telephone Co.*	Souris River Telephone*
Moore & Liberty Telephone Co.*	United Tel. Mutual Aid Corp.*

OHIO

Alltel Ohio-Newark**	Middle Point Home Telephone Co.*
Arcadia Telephone Co.*	Minford Telephone Co.*
Ayersville Telephone Co.*	New Knoxville Telephone Co.*
Bascom Mutual Telephone Co.*	Oakwood Mutual Telephone Co.*
C, C & S Telephone Co.-Ohio*	Ohio Bell Telephone Co.
Central Telephone Co.**	Ridgeville Telephone Co.*

OHIO (CONT.)

Cincinnati Bell-Ohio**	Sherwood Mutual Telephone Co.*
Continental Telephone Co.*	Sycamore Telephone Co.*
Elyria Telephone Co.**	Telephone Service Co.*
Farmers Mutual Telephone Co.*	The Arthur Mutual*
Fayetteville Telephone Co.*	The Champaign Telephone Co.*
Fort Jennings Telephone Co.*	The Chillicothe Telephone Co.*
Germantown Independent Tel. Co.*	The Nova Telephone Co.*
Glandorf Telephone Co.*	United Telephone Co. of Ohio**
GTE North, Inc.-Ohio**	Vanlue Telephone Co.*
Harlan Telephone Co.*	Vaughnsville Telephone Co.*
Kalida Telephone Co.*	Wabash Mutual Telephone Co.*
McClure Telephone Co.*	Western Reserve Telephone Co.**

OREGON

Asotin Telephone**	Monroe**
Beaver Creek**	Mt. Angel**
Canby Telephone**	Nehalem Telephone**
Cascade**	North-State**
Clear Creek**	Oregon Telephone**
Colton Telephone**	Pacific Telecomm., Inc.**
Contel West/NW**	People's**
CP National**	Pine Telephone**
Eagle Telephone**	Pioneer**
Gervais**	Room Telephone, Inc.**
GTE Northwest**	Scio**
Helix**	Stayton**
Home**	St. Paul**
Malheur Bell**	Trans-Cascade**
Midvale**	United Telephone**
Molalla**	US West Communications**
Monitor**	

PENNSYLVANIA

Alltel Pennsylvania*	GTE North, Inc.*
Bell of Pennsylvania*	Murraysville Telephone Co.*
Breezewood Telephone Co.*	North Penn. Telephone Co.*
Brookville Telephone Co.*	North Pittsburg Telephone*
Canton Telephone Co.*	Oswayo River Telephone Co.*
Contel of Pennsylvania*	Pennsylvania Telephone Co.*
C-Tec Corporation*	Quaker State Telephone Co.*
Denver & Ephrata*	The Bentleyville Tel.*
Enterprise Telephone Co.*	

PUERTO RICO

Puerto Rico Telephone Co.\*

RHODE ISLAND

New England Telephone Co.\*\*

SOUTH CAROLINA

Alltel South Carolina*	McClellanville Telephone Co.*
Bluffton Tel. & Appliance*	Norway Telephone Co.*
Chesnee Telephone Co.*	Palmetto Rural Coop.*
Chester Tel. Co.-South Carolina*	Piedmont Rural Coop.*
Contel of South Carolina*	Pond Branch Telephone Co.*
Farmers Telephone Coop.*	Ridge Telephone Co.*
Fort Mill Telephone Co.*	Ridgeway Telephone Co.*
General Telephone Co.*	Rock Hill Telephone Co.*
Hargray Telephone Co.*	Sandhill Telephone Coop.-SC*
Heath Springs Telephone Co.*	Southern Bell-South Carolina*
Home Telephone Co.*	St. Stephen Telephone Co.*
Horry Telephone Coop.*	United Tel. Co. of the Carolinas*
Lancaster Telephone Co.*	West Carolina Rural*
Lockhart Telephone Co., Inc.*	Williston Telephone Co.*

SOUTH DAKOTA

US West Communications\*\*

TENNESSEE

South Central Bell*	United Telephone Co.*
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TEXAS

Central Telephone Co. of Texas**	South Plains Tel. Coop., Inc.**
Contel of Texas**	Southwestern Bell Telephone Co.**
GTE Southwest, Inc.**	United Telephone Co. of Texas**
Lufkin-Conroe Tel. Exchange**	

UTAH

Beehive Telephone Co.**	Mountain Bell**
Central Utah Telephone Inc.**	Navajo Communications**
Contel of the West**	Skyline Telecommunications**
Emery County Farmers**	South Central Utah**
Gunnison Telephone Co.**	Uintah Basin Telephone**
Kamas-Woodland Telephone**	Utah-Wyoming Telecommunications**
Manti Telephone Co.**	

VERMONT

Contel of Vermont	Perkinsville Telephone Co.
Franklin Telephone Co.	Shoreham Telephone Co.
Ludlow Telephone Co.	Topsham Telephone Co.
New England Telephone	Waitsfield/Fayston
Northfield Telephone Co.	

VIRGINIA

Amelia Telephone Corp.**	MT Grove**
Buggs Island Coop.**	New Hope Telephone Co.**

VIRGINIA (CONT.)

Burke's Garden Telephone**	North River Telephone Coop.**
C & P Telephone Co.**	Pembroke Telephone Coop.**
Central Tel. Co. of Virginia**	Peoples Mutual Telephone**
Citizens Telephone Coop.**	Roanoke & Botetourt**
Clifton Forge Waynes**	Scott County Coop.**
Contel of Virginia**	Shenandoah Telephone Co.**
GTE South, Inc.**	United Inter-MT-VA**
Highland Telephone Coop.**	Virginia Hot Springs**

WASHINGTON

Continental Telephone	St. John Telephone Co.
Ellensburg Telephone Co.	Telephone Utilities of Washington
GTE Northwest, Inc.-Washington	United Telephone Co. of the NW
Lewis River Telephone Co.	US West Communications
Peninsula Telecommunications	Western Wahkiakum Telephone Co.
Pioneer Telephone Co.	Whidbey Telephone Co.

WEST VIRGINIA

Armstrong Telephone Co.**	Mountain State Telephone Co.**
C & P Telephone Co. of WV**	War Telephone Co.**
Contel of West Virginia**	West Side Telephone Co.**
GTE South**	

WYOMING

United Telephone Co.*	US West*
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\* Link Up only  
\*\* Lifeline and Link Up

TABLE 2.3

## LIFELINE &amp; 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
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
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	Dep't. of Human Services Division
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
Maryland	Public Service Commission	Recipient of: General Assistance	Dep't. of Human Resources
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

STATE	ENTITY	ELIGIBILITY CRITERIA	INCOME VERIFICATION
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
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



STATE	ENTITY	ELIGIBILITY CRITERIA	INCOME VERIFICATION
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 Dep't.
	Western NM Tel. Co.	Recipient of: SSI, AFDC, or CCIC	Human Services Dep't.
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	County Social Service Board
Ohio	Public Utilities Commission	Recipient of: HEAP or Ohio Energy Credits Program	Local Exchange Companies
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

STATE	ENTITY	ELIGIBILITY CRITERIA	INCOME VERIFICATION
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
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

STATE	ENTITY	ELIGIBILITY CRITERIA	INCOME VERIFICATION
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
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 2.4

## LIFELINE STATE ENROLLMENT

STATES	DATE IMPLEMENTED	LIFELINE SUBSCRIBERS	SUBSCRIBERS ELIGIBLE	PERCENTAGE
ARIZONA	11/86	7,928	37,950	20.89%
ARKANSAS	5/22/86	5,539	80,000	6.92%
CALIFORNIA	1/1/85	1,250,000	N/A	N/A
COLORADO	9/1/86	17,167	59,000	29.10%
DISTRICT OF COLUMBIA	3/18/86	3,553	N/A	N/A
HAWAII	10/27/86	6,013	19,380	31.03%
IDAHO	8/87	7,679	11,559	66.43%
MAINE	1/88	32,370	68,502	47.25%
MARYLAND	7/86	2,930	74,409	3.94%
MICHIGAN*#	(1/24/89)	22,594	615,000	3.67%
MINNESOTA	1/27/88	26,501	933,621	2.84%
MISSOURI	10/1/87	15,833	32,000	49.48%
MONTANA	4/1/88	104	N/A	N/A
NEVADA	7/1/88	3,276	23,535	13.92%
NEW MEXICO	7/87	10,355	35,000	29.59%
NEW YORK	11/2/87	219,344	1,112,622	19.71%
NORTH CAROLINA	3/5/87	16,553	182,015	9.09%
OHIO	4/1/87	13,586	522,410	2.60%
OREGON	6/1/86	25,091	90,000	27.88%
RHODE ISLAND	11/22/88	13,520	N/A	N/A
SOUTH DAKOTA	6/11/88	4,236	8,650	48.97%
TEXAS	9/7/88	617	14,229	4.34%
UTAH	(12/31/86)	N/A	N/A	N/A
VERMONT	10/1/86	N/A	N/A	N/A
VIRGINIA	1/1/88	4,149	48,016	8.64%
WASHINGTON	8/1/87	55,607	193,784	28.70%
WEST VIRGINIA	10/86	6,178	42,835	14.42%

\* REPORTED BY TELEPHONE TO THE FCC

# DATA AS OF DATE OF REPORT IN 1989

() DATE APPROVED BY THE FCC

SOURCE: FCC FORM 496, STATE TELEPHONE ASSISTANCE REPORT;  
SEPTEMBER 1988; DATA AS OF DECEMBER 31, 1988.

TABLE 2.5

## LINK UP STATE ENROLLMENT

STATES	DATE IMPLEMENTED	LINK UP SUBSCRIBERS	SUBSCRIBERS ELIGIBLE	PERCENTAGE
ALABAMA	2/15/88	N/A	N/A	N/A
ARIZONA	1/88	162	N/A	N/A
ARKANSAS	11/1/87	6,731	N/A	N/A
COLORADO	8/88	N/A	N/A	N/A
CONNECTICUT	11/20/87	2,985	120,000	2.49%
DISTRICT OF COLUMBIA	8/21/87	1,074	N/A	N/A
FLORIDA*	10/17/88	1,300	N/A	N/A
INDIANA*#	1/25/89	2,261	9,088	24.88%
IOWA	4/13/88	591	3,213	18.39%
KANSAS	2/29/88	8,907	N/A	N/A
KENTUCKY	1/1/88	400	N/A	N/A
LOUISIANA	(10/25/88)	N/A	N/A	N/A
MAINE	1/88	7,536	29,371	25.66%
MARYLAND	10/87	285	N/A	N/A
MICHIGAN*#	(1/24/89)	117	N/A	N/A
MINNESOTA	1/27/88	983	1,593	61.71%
MISSISSIPPI	5/11/88	1,442	23,316	6.18%
MISSOURI	4/15/88	N/A	N/A	N/A
MONTANA	4/1/88	N/A	N/A	N/A
NEBRASKA	6/7/88	281	882	31.86%
NEVADA	11/1/88	N/A	N/A	N/A
NEW HAMPSHIRE	12/16/88	0	N/A	N/A
NEW JERSEY	1/1/88	1,251	41,726	3.00%
NEW MEXICO	3/1/88	1,530	N/A	N/A
NEW YORK	8/11/87	207	N/A	N/A
NORTH CAROLINA	3/1/88	15,485	337,037	4.59%
NORTH DAKOTA #	1/19/89	8,949	522,410	1.71%
OHIO	12/9/87	921	41,190	2.24%
OREGON	5/5/88	3	N/A	N/A
PENNSYLVANIA	6/13/88	212	N/A	N/A
PUERTO RICO	(11/17/88)	N/A	N/A	N/A
RHODE ISLAND	11/22/88	195	N/A	N/A
SOUTH CAROLINA	2/15/88	4,612	70,000	6.59%
SOUTH DAKOTA	6/11/88	173	1,377	12.56%
TENNESSEE*	(11/3/88)	4,000	70,000	5.71%
TEXAS	11/13/87	15,972	212,021	7.53%
UTAH	(3/17/88)	N/A	N/A	N/A
VIRGINIA	1/1/88	1,467	21,828	6.72%
WEST VIRGINIA	10/87	1,970	9,394	20.97%
WYOMING*#	(2/23/89)	175	14,124	1.24%

\* REPORTED BY TELEPHONE TO THE FCC

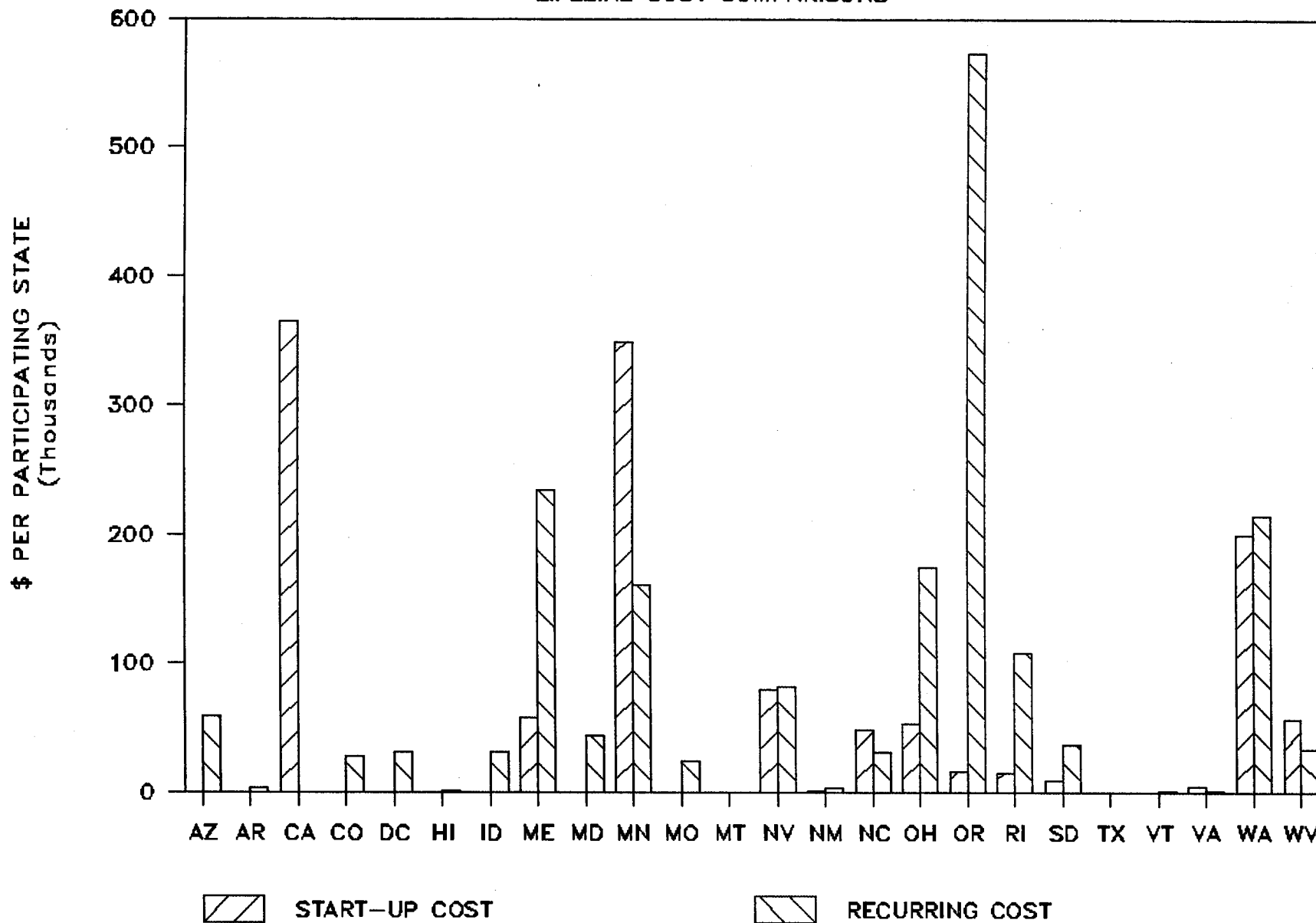
# DATA AS OF DATE OF REPORT IN 1989

() DATE APPROVED BY THE FCC

SOURCE: FCC FORM 496, STATE TELEPHONE ASSISTANCE REPORT;  
SEPTEMBER 1988; DATA AS OF DECEMBER 31, 1988.

# CHART 2.1

## LIFELINE COST COMPARISONS

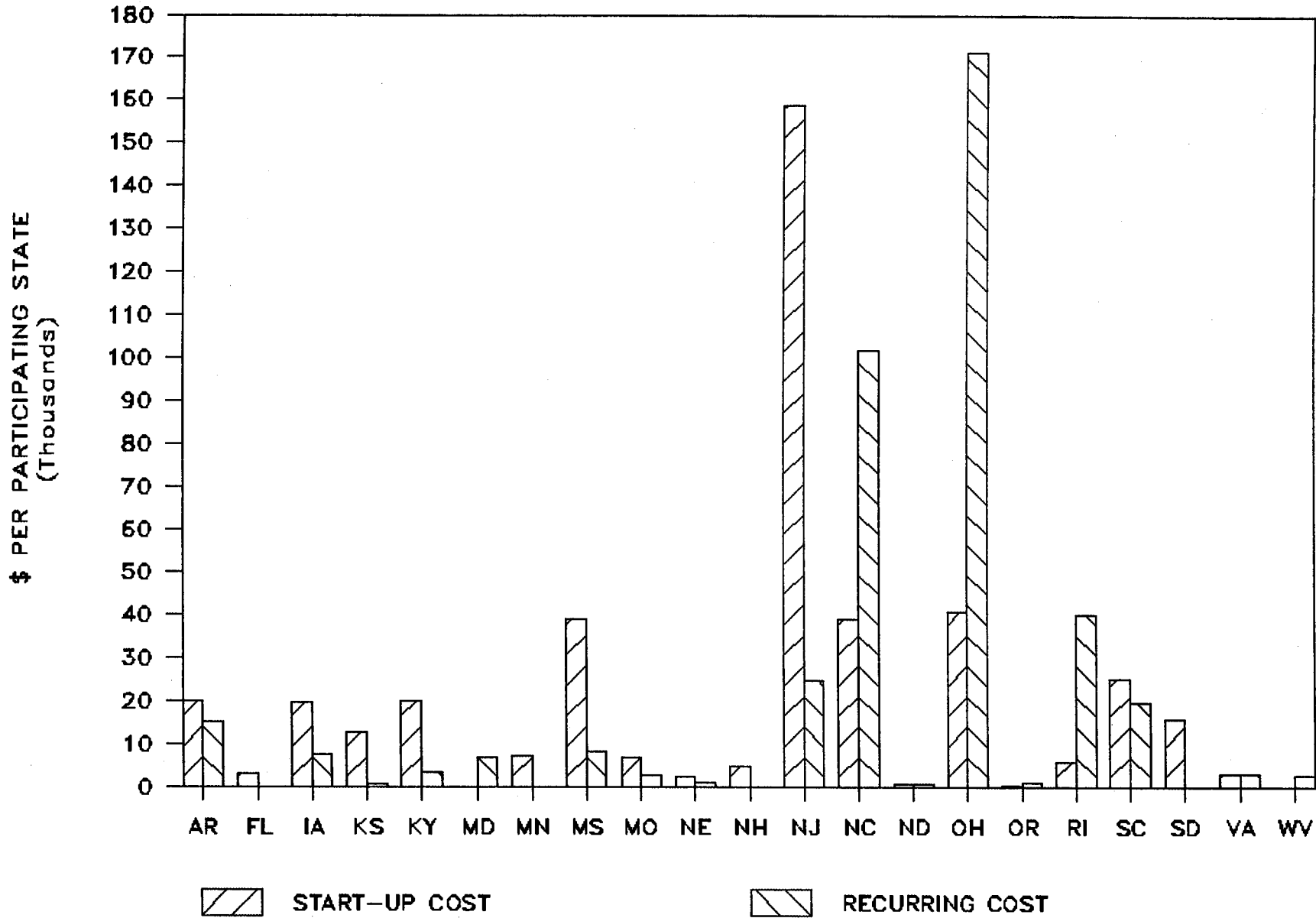


NEW YORK: START-UP COST = \$3,949.00; RECURRING COST = \$5,054,363.00

SOURCE: FCC FORM 496, STATE TELEPHONE ASSISTANCE REPORT:  
SEPTEMBER 1988; DATA AS OF DECEMBER 31, 1988.

# CHART 2.2

## LINK UP COST COMPARISONS



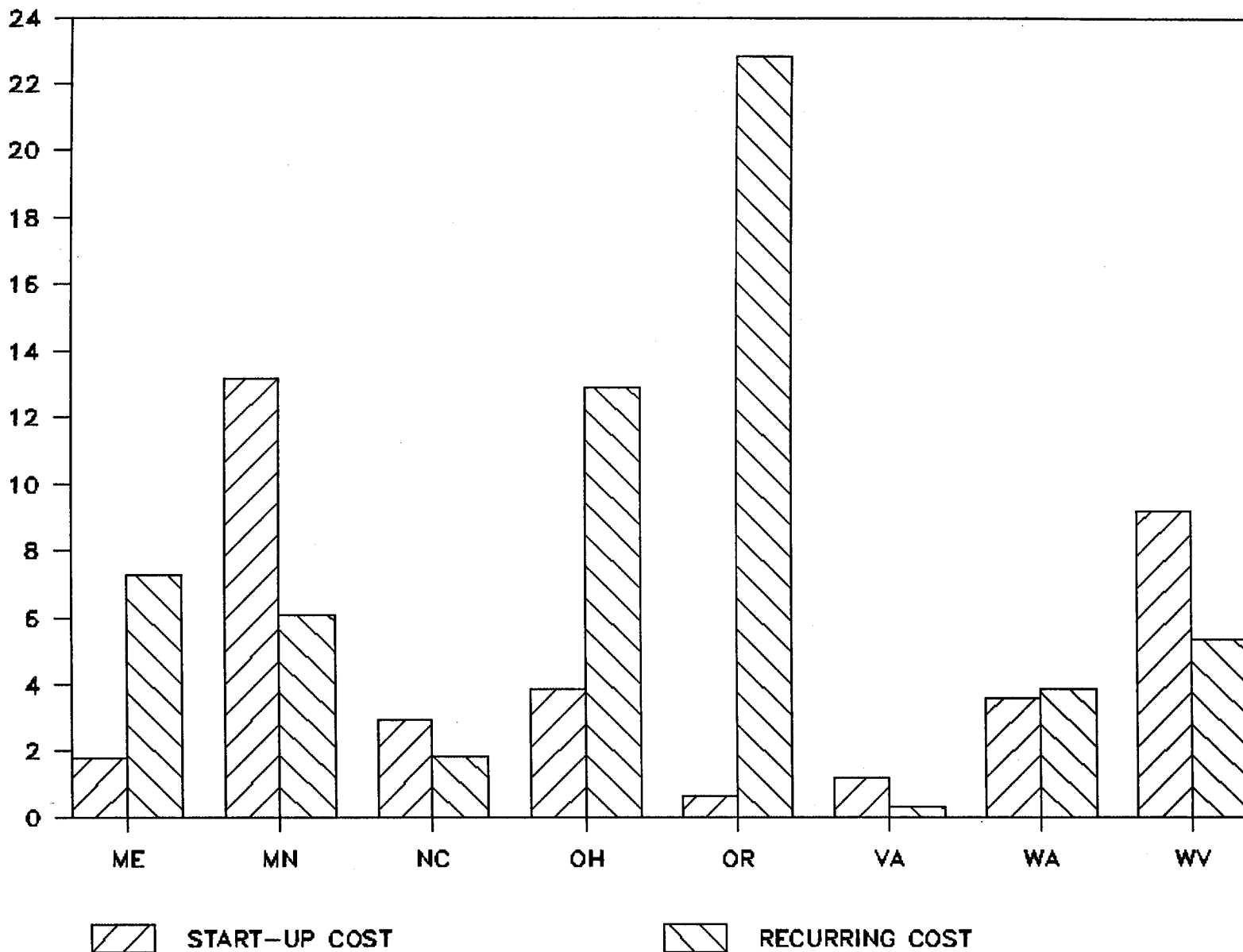
TEXAS: START-UP COST = \$37,635.00; RECURRING COST = \$745,688.00

SOURCE: FCC FORM 496, STATE TELEPHONE ASSISTANCE REPORT;  
SEPTEMBER 1988; DATA AS OF DECEMBER 31, 1988.

# CHART 2.3

## LIFELINE COST COMPARISONS

- 67 -  
\$ PER PARTICIPATING HOUSEHOLD

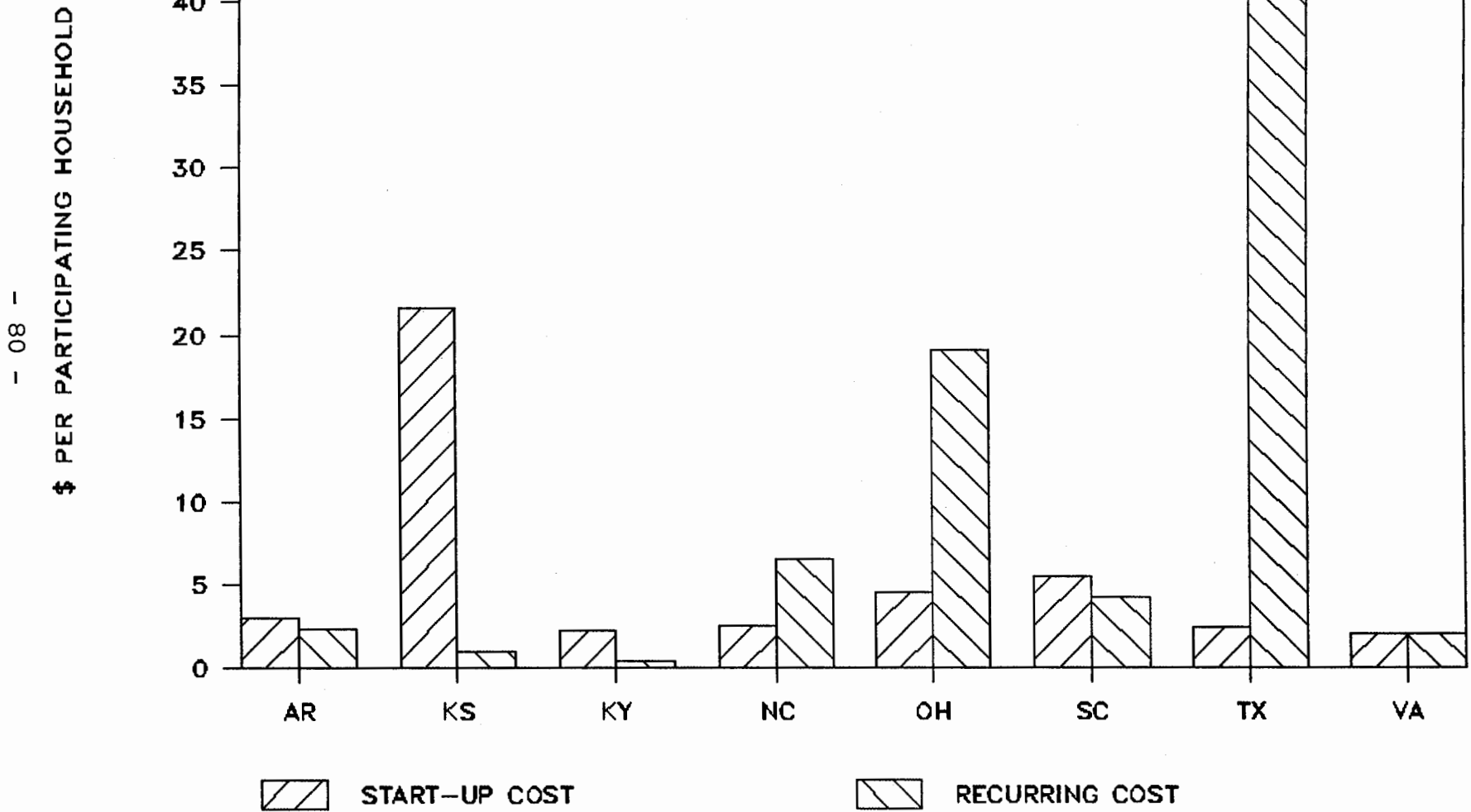


SOURCE: FCC FORM 496, STATE TELEPHONE ASSISTANCE REPORT;  
SEPTEMBER 1988; DATA AS OF DECEMBER 31, 1988.



# CHART 2.4

## LINK UP COST COMPARISONS



SOURCE: FCC FORM 496, STATE TELEPHONE ASSISTANCE REPORT;  
SEPTEMBER 1988; DATA AS OF DECEMBER 31, 1988.

### 3. Costs and High Cost Assistance

On a nationwide average basis, approximately 28 percent of local exchange carrier (LEC) local loop costs are allocated to the interstate (federal) jurisdiction,<sup>1</sup> and 72 percent are allocated to the state jurisdiction. The average cost per loop, however, varies significantly among LECs. The Commission's high cost assistance program 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.<sup>2</sup>

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1 Of this amount, approximately 27 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.<sup>3</sup> Each year NECA collects NTS cost and loop data from the previous year, and uses it to distribute high cost assistance in the following year. State totals from NECA's 1988 report, covering high cost data for 1987, and using a 12% rate of return which was in effect in 1987 (rather than the 12.75% rate previously in effect) are presented in Table 3.2. This table shows unseparated NTS costs (Revenue Requirement), the number of loops, and the cost per loop. It also shows the universal service fund calculation for 1989, using 1987 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 1989 is the fourth year of this transition, the annual USF payment for 1989 will be 4/8 (or 1/2) of the amount calculated from the high cost formula. The final column shows the percent of the total USF that goes to companies in the state. Comparable data for individual study areas are given in Table 3.4.<sup>4</sup>

Table 3.3 shows the changes from 1986 to 1987, for state totals, of the unseparated NTS revenue requirement, the number of loops, the revenue requirement per loop, and the universal service fund. For the changes in the USF, the column headed "universal service fund after full transition" represents the changes in the full post-transitional amounts calculated from the formula, and the column headed "universal service fund applicable to later year" represents the changes in the transitional amounts applicable to 1988 and 1989. The changes in the post-transitional USF amounts reflect the effect on the USF of changes in costs. The changes in the transitional

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basic allocation of NTS costs to the interstate jurisdiction under our rules.

3 These are the carriers that settle on a cost basis.

4 In the second column of Table 3.4, the types are average schedule (A) and cost (C); the subsets are Bell companies (1), large independents (2), and small independents (3).

amounts reflect the change in the transition factor from 3/8 to 4/8, as well as the changes in costs.

Table 3.5 shows the comparable information for individual study areas.

In cases where the name of a study area has changed, the 1986 name is given in parentheses following the 1987 name. In the cases where study areas have merged, the changes calculated are for the combined study areas.<sup>5</sup> In the USF columns in this table, the entry "ERR" indicates that the USF in the first year was zero, while it was positive in the second year.

#### Comments Filed

Since the March report, there have been two filings related to costs and high cost assistance. Comments were filed by the State of Colorado Public Utilities Commission (Colorado). In addition, Gordon L. Persinger of the Missouri Public Service Commission staff filed, on behalf of the National Association of Regulatory Utility Commissioners Staff Subcommittee on Communications, a report by David Chessler entitled "The Effect of Toll Competition on Prices, Costs and Productivity of the Telephone Industry in the United States" (Chessler). The portions of these filings related to costs and high cost assistance are summarized below.

Colorado expresses concern about problems involved with the targeting of high cost companies. It contends that the High Cost Fund (HCF) formula is not equitably targeting high cost companies for support. It questions whether or not an intended incentive is being provided to high cost companies to maneuver themselves into more profitable positions in relation to the HCF formula. It characterizes LECs which benefit disproportionately from the HCF as being small companies with moderate frozen SPF's and very high total revenue requirements per loop. It says that for these companies the new interstate allocation is in some cases double the original SPF, causing the HCF to compensate the LECs by an amount exceeding the local rate. It characterizes LECs which are handicapped by the HCF formula as being small companies with very high frozen SPF's and moderate total revenue requirements per loop. It says that for these companies the new interstate

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5 One merged study area, Walker County Telephone Company of Georgia, was mistakenly classified as a Tennessee company in 1986. This error was corrected and the 1986 state totals for Georgia and Tennessee were adjusted accordingly for the calculation of the changes. One new study area was created, Papago Tribal Utility Authority, serving the Sells, Arizona, exchange acquired from Mountain Bell of Arizona. In this table, the changes shown for Mountain Bell are for the two study areas combined.

allocation is in some cases half the original SPF, causing local rates to double. It proposes that the Joint Board investigate local rates as well as the revenue requirement per loop to provide some insight as to whether high cost companies are truly being treated equitably. It suggests that the Joint Board impose a limit on increases in local rates which may be the result of the HCF formula. It advocates that HCF eligibility be restructured to take into account both loop cost and local rates, so that the assistance can be targeted to ratepayers whose rates would be adversely affected by the current HCF formula. It notes that although it is the LEC which is either the victim or beneficiary of the formula's discrepancies, ultimately the end-users and society as a whole suffer from inadequacies associated with the mistargeting of the HCF. It concludes that such mistargeting results in the inefficient allocation of society's resources, and hence a loss in consumer utility of the public switched telephone network.

Chessler surveys the development of competition in toll telecommunications. He identifies two sources of rapid cost increases in the telecommunications industry in the early and mid 1980s, both of which he links to federal policies designed to promote toll competition: (1) accelerated depreciation rates ordered by the FCC beginning in 1980, and (2) the costs of equal access conversion and network reconfiguration beginning in 1984. He says the FCC emphasized in court the importance of increased depreciation expense as a necessary part of its policy of promoting competition. He notes, however, that in its orders, the FCC also justified some of its depreciation changes as promoting investment, thereby increasing productivity and helping avert rate increases in the long run. He justifies his conclusions about equal access conversion and network reconfiguration with time-series regression estimates which show an upward shift in cost around 1983. He states that productivity gain in telecommunications in the 1980s was lower than in previous decades, and was, for the first time, lower than productivity gain in the goods producing industries. He indicates that his review of the economic literature on the effects of competition on costs and productivity was inconclusive.

TABLE 3.1

HIGH COST FORMULAS

Cost Range As % of National Average      % Expense Adjustment Within Range

Old Formula, Study Areas with Over 50,000 Loops

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

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

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

New Formula, Study Areas with Over 200,000 Loops

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

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

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

TABLE 3.2

National Exchange Carrier Association  
Universal Service Fund  
State Summary  
Data for 1987

STATE	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1989 AT 4/8 TRANSITION	PERCENT OF TOTAL
ALABAMA	\$436,366,145	1,663,583	\$262.31	\$7,790,641	3.12%
ALASKA	\$98,988,845	250,920	\$394.50	\$14,224,002	5.69%
ARIZONA	\$446,716,177	1,692,428	\$263.95	\$6,740,138	2.70%
ARKANSAS	\$296,942,538	942,016	\$315.22	\$8,717,925	3.49%
CALIFORNIA	\$3,356,116,841	15,370,310	\$218.35	\$19,063,982	7.63%
COLORADO	\$355,192,060	1,714,885	\$207.12	\$1,314,603	0.53%
CONNECTICUT	\$362,082,955	1,749,489	\$206.96	\$0	0.00%
DELAWARE	\$66,573,680	368,747	\$180.54	\$0	0.00%
DISTRICT OF COLUMBIA	\$81,760,698	776,011	\$105.36	\$0	0.00%
FLORIDA	\$1,951,032,231	6,651,854	\$293.31	\$13,696,724	5.48%
GEORGIA	\$837,318,079	2,965,465	\$282.36	\$11,830,160	4.74%
HAWAII	\$86,178,523	503,271	\$171.24	\$0	0.00%
IDAHO	\$120,809,121	428,590	\$281.88	\$3,937,408	1.58%
ILLINOIS	\$965,754,364	5,904,874	\$163.55	\$1,221,094	0.49%
INDIANA	\$523,299,153	2,400,280	\$218.02	\$835,476	0.33%
IOWA	\$263,182,378	1,290,550	\$203.93	\$603,506	0.24%
KANSAS	\$307,439,967	1,191,394	\$258.05	\$6,781,667	2.71%
KENTUCKY	\$406,870,157	1,460,288	\$278.62	\$3,980,902	1.59%
LOUISIANA	\$574,467,833	1,837,702	\$312.60	\$9,310,029	3.73%
MAINE	\$150,050,417	582,183	\$257.74	\$1,276,918	0.51%
MARYLAND	\$470,874,601	2,525,912	\$186.42	\$0	0.00%
MASSACHUSETTS	\$500,249,852	3,302,933	\$151.46	\$0	0.00%
MICHIGAN	\$824,733,311	4,454,281	\$185.16	\$917,812	0.37%
MINNESOTA	\$454,792,146	2,133,524	\$213.16	\$1,705,270	0.68%
MISSISSIPPI	\$309,762,462	935,867	\$330.99	\$4,793,703	1.92%
MISSOURI	\$569,472,468	2,413,768	\$235.93	\$16,592,495	6.64%
MONTANA	\$117,952,478	363,951	\$324.09	\$4,062,272	1.63%
NEBRASKA	\$151,562,853	783,036	\$193.56	\$2,176,880	0.87%
NEVADA	\$128,496,727	576,852	\$222.76	\$2,783,649	1.11%
NEW HAMPSHIRE	\$151,006,018	565,838	\$266.87	\$375,023	0.15%
NEW JERSEY	\$777,592,744	4,537,814	\$171.36	\$0	0.00%
NEW MEXICO	\$170,794,527	621,997	\$274.59	\$8,870,749	3.55%
NEW YORK	\$2,342,472,472	9,956,220	\$235.28	\$4,986,264	2.00%
NORTH CAROLINA	\$762,887,345	3,007,936	\$253.62	\$6,199,421	2.48%
NORTH DAKOTA	\$89,407,766	336,164	\$265.96	\$1,196,422	0.48%
OHIO	\$1,025,604,468	4,976,116	\$206.11	\$380,960	0.15%
OKLAHOMA	\$418,979,546	1,476,752	\$283.72	\$11,822,772	4.73%
OREGON	\$320,234,310	1,331,865	\$240.44	\$5,600,477	2.24%
PENNSYLVANIA	\$1,058,972,181	5,999,716	\$176.50	\$892,687	0.36%
PUERTO RICO	\$196,931,816	764,979	\$257.43	\$0	0.00%
RHODE ISLAND	\$92,687,334	492,045	\$188.37	\$0	0.00%
SOUTH CAROLINA	\$432,968,382	1,438,707	\$300.94	\$4,361,361	1.75%
SOUTH DAKOTA	\$81,071,894	312,694	\$259.27	\$1,064,909	0.43%
TENNESSEE	\$520,790,991	2,231,795	\$233.35	\$1,344,666	0.54%
TEXAS	\$2,132,515,054	7,874,717	\$270.81	\$35,746,223	14.31%
UTAH	\$133,251,798	686,194	\$194.19	\$897,636	0.36%
VERMONT	\$83,174,391	280,290	\$296.74	\$1,554,402	0.62%
VIRGIN ISLANDS	\$18,987,892	41,038	\$462.69	\$2,907,837	1.16%
VIRGINIA	\$708,905,925	2,966,686	\$238.96	\$1,810,358	0.72%
WASHINGTON	\$503,758,931	2,353,104	\$214.08	\$5,471,651	2.19%
WEST VIRGINIA	\$266,110,357	753,516	\$353.16	\$6,433,130	2.58%
WISCONSIN	\$492,402,012	2,306,640	\$213.47	\$1,122,330	0.45%
WYOMING	\$87,868,141	225,386	\$389.86	\$2,395,753	0.96%
INDUSTRY TOTAL	\$28,084,415,355	122,773,173	\$228.75	\$249,792,287	100.00%

TOTAL NUMBER OF STUDY AREA CODES: 1467

TABLE 3.3

National Exchange Carrier Association  
 Universal Service Fund  
 State Summary  
 Percentage Changes from 1986 to 1987

STATE	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND AFTER FULL TRANSITION	UNIVERSAL SERVICE FUND APPLICABLE TO LATER YEAR
ALABAMA	4.49%	5.43%	-0.90%	15.01%	53.35%
ALASKA	4.28%	1.85%	2.38%	-3.96%	28.05%
ARIZONA	0.85%	5.18%	-4.11%	0.16%	33.54%
ARKANSAS	1.61%	2.21%	-0.59%	9.61%	46.15%
CALIFORNIA	-0.31%	6.60%	-6.48%	-3.80%	28.27%
COLORADO	-1.21%	2.59%	-3.70%	-8.69%	21.75%
CONNECTICUT	5.41%	3.71%	1.64%	0.00%	0.00%
DELAWARE	1.39%	5.87%	-4.23%	0.00%	0.00%
DISTRICT OF COLUMBIA	-5.37%	1.10%	-6.41%	0.00%	0.00%
FLORIDA	2.70%	7.87%	-4.80%	-15.41%	12.78%
GEORGIA	10.39%	7.97%	2.25%	72.86%	130.48%
HAWAII	3.22%	4.00%	-0.74%	0.00%	0.00%
IDAHO	-4.64%	2.14%	-6.64%	-32.90%	-10.53%
ILLINOIS	0.89%	2.26%	-1.34%	64.05%	118.74%
INDIANA	8.93%	1.37%	7.45%	15.36%	53.81%
IOWA	0.14%	0.76%	-0.61%	-48.41%	-31.21%
KANSAS	6.15%	0.75%	5.37%	13.74%	51.65%
KENTUCKY	6.84%	4.97%	1.78%	18.73%	58.31%
LOUISIANA	6.21%	2.54%	3.58%	34.89%	79.86%
MAINE	-1.77%	4.02%	-5.57%	-21.57%	4.57%
MARYLAND	7.87%	4.39%	3.34%	0.00%	0.00%
MASSACHUSETTS	-1.82%	1.24%	-3.03%	0.00%	0.00%
MICHIGAN	-7.46%	1.14%	-8.50%	-29.93%	-6.57%
MINNESOTA	5.44%	2.05%	3.32%	-26.11%	-1.48%
MISSISSIPPI	3.35%	6.19%	-2.67%	8.50%	44.67%
MISSOURI	1.29%	2.36%	-1.04%	28.91%	71.88%
MONTANA	-2.00%	1.20%	-3.16%	-6.39%	24.82%
NEBRASKA	-2.77%	0.25%	-3.01%	11.93%	49.24%
NEVADA	5.73%	5.93%	-0.19%	-29.69%	-6.25%
NEW HAMPSHIRE	6.51%	4.25%	2.17%	59.33%	112.43%
NEW JERSEY	-3.56%	3.85%	-7.13%	-100.00%	-100.00%
NEW MEXICO	-2.95%	3.40%	-6.14%	-4.62%	27.17%
NEW YORK	10.09%	2.29%	7.62%	16.27%	55.03%
NORTH CAROLINA	5.81%	6.47%	-0.62%	12.47%	49.96%
NORTH DAKOTA	0.38%	1.10%	-0.71%	-15.22%	13.04%
OHIO	11.42%	2.91%	8.28%	-3.45%	28.74%
OKLAHOMA	-4.75%	-0.38%	-4.38%	10.50%	47.33%
OREGON	3.27%	3.32%	-0.05%	-7.41%	23.45%
PENNSYLVANIA	-2.13%	3.25%	-5.21%	19.96%	59.95%
PUERTO RICO	15.29%	8.72%	6.04%	0.00%	0.00%
RHODE ISLAND	-2.28%	2.03%	-4.22%	0.00%	0.00%
SOUTH CAROLINA	2.59%	5.87%	-3.10%	-4.24%	27.68%
SOUTH DAKOTA	-1.90%	2.13%	-3.95%	-24.82%	0.24%
TENNESSEE	9.41%	8.09%	1.22%	48.77%	98.36%
TEXAS	-1.19%	0.41%	-1.59%	15.40%	53.86%
UTAH	-5.47%	2.49%	-7.77%	-31.84%	-9.11%
VERMONT	-0.87%	3.39%	-4.12%	-4.47%	27.37%
VIRGIN ISLANDS	11.09%	4.60%	6.20%	24.65%	66.20%
VIRGINIA	3.88%	6.14%	-2.13%	-23.69%	1.75%
WASHINGTON	3.23%	3.52%	-0.28%	-15.07%	13.24%
WEST VIRGINIA	4.71%	2.75%	1.90%	17.37%	56.49%
WISCONSIN	1.60%	5.34%	-3.56%	-37.34%	-16.45%
WYOMING	-4.87%	1.69%	-6.45%	-24.70%	0.40%
INDUSTRY TOTAL	2.52%	3.79%	-1.22%	4.43%	39.24%

TOTAL NUMBER OF STUDY AREA CODES: -1.21%



TABLE 3.4

National Exchange Carrier Association  
Universal Service Fund  
Individual Study Areas  
Data for 1987

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1989 AT 4/8 TRANSITION	PERCENT OF TOTAL
STATE TOTAL:		ALABAMA	\$436,366,145	1,663,583	\$262.31	\$7,790,641	3.119%
250281	C 2	CONTINENTAL TEL CO OF THE SOUTH - AL	\$29,639,231	72,932	\$406.40	\$3,628,253	1.453%
250282	A 3	BLOUNTSVILLE TEL. COMPANY INC.	\$425,454	1,892	\$224.87	\$0	0.000%
250283	A 3	BRINDLEE MOUNTAIN TEL. COMPANY	\$1,920,165	8,539	\$224.87	\$0	0.000%
250284	C 3	BUTLER TELEPHONE CO. INC.	\$1,147,744	3,147	\$364.71	\$107,359	0.043%
250285	A 3	CASTLEBERRY TEL. COMPANY INC.	\$156,285	695	\$224.87	\$0	0.000%
250286	A 3	NATIONAL TEL. CO. OF AL	\$391,499	1,741	\$224.87	\$0	0.000%
250290	A 3	FARMERS TEL COOP INC - ALABAMA	\$3,004,938	13,363	\$224.87	\$0	0.000%
250293	C 2	GTE SOUTH INC. - ALABAMA	\$37,195,791	112,805	\$329.74	\$2,444,506	0.979%
250295	C 3	GRACEBA TOTAL COMMUNICATIONS	\$752,640	3,347	\$224.87	\$0	0.000%
250296	A 3	GOSHEN TELEPHONE COMPANY	\$142,568	634	\$224.87	\$0	0.000%
250297	C 3	GROVE HILL TEL. CORP.	\$446,217	1,629	\$273.92	\$5,748	0.002%
250298	C 3	GULF TELEPHONE COMPANY - ALABAMA	\$5,979,943	22,107	\$270.50	\$53,437	0.021%
250299	A 3	HAYNEVILLE TEL. COMPANY INC.	\$317,516	1,412	\$224.87	\$0	0.000%
250300	C 3	HOPPER TEL. COMPANY INC.	\$1,020,448	2,593	\$393.54	\$116,493	0.047%
250301	A 3	LAMAR COUNTY TEL. COMPANY	\$386,327	1,718	\$224.87	\$0	0.000%
250302	A 2	ALLTEL ALABAMA	\$3,511,795	15,617	\$224.87	\$0	0.000%
250304	C 3	MILLRY TELEPHONE CO. INC	\$2,356,010	4,646	\$507.11	\$406,593	0.163%
250305	A 3	MON-CRE TEL. COOP. INC.	\$476,500	2,119	\$224.87	\$0	0.000%
250306	C 3	MONROEVILLE TELEPHONE COMPANY	\$3,263,597	9,240	\$353.20	\$275,338	0.110%
250307	A 3	MOUNDVILLE TELEPHONE COMPANY	\$244,209	1,086	\$224.87	\$0	0.000%
250308	A 3	NEW HOPE TEL. COOP. INC.- AL	\$902,178	4,012	\$224.87	\$0	0.000%
250311	A 2	OAKMAN TEL. COMPANY INC.	\$444,118	1,975	\$224.87	\$0	0.000%
250312	A 3	ONEONTA TEL. COMPANY INC.	\$1,077,127	4,790	\$224.87	\$0	0.000%
250314	C 2	PEOPLES TELEPHONE COMPANY	\$3,640,641	9,446	\$385.42	\$395,607	0.158%
250315	C 3	PINE BELT TELEPHONE COMPANY	\$406,790	1,809	\$224.87	\$0	0.000%
250316	C 3	RAGLAND TEL. CO.	\$278,751	961	\$290.06	\$8,432	0.003%
250317	A 3	ROANOKE TEL. CO. INC.	\$821,450	3,653	\$224.87	\$0	0.000%
250318	C 3	SOUTHLAND TEL. CO.-AL	\$2,838,365	8,630	\$328.90	\$184,658	0.074%
250322	A 3	UNION SPRINGS TEL. COMPANY	\$793,116	3,527	\$224.87	\$0	0.000%
250461	C 3	SOUTHEAST MISSISSIPPI TELEPHONE COMPA	\$925,712	1,782	\$519.48	\$164,217	0.066%
255181	C 1	SOUTH CENTRAL BELL-AL	\$331,459,020	1,341,736	\$247.04	\$0	0.000%
STATE TOTAL:		ALASKA	\$98,988,845	250,920	\$394.50	\$14,224,002	5.694%
613000	C 2	ANCHORAGE TELEPHONE UTILITY	\$25,393,790	116,925	\$217.18	\$0	0.000%
613001	C 3	ARCTIC SLOPE TEL. ASSOCIATION COOP. IN	\$1,427,360	1,226	\$1,164.24	\$409,409	0.164%
613002	A 3	BETTLES TELEPHONE CO. INC.	\$24,837	45	\$551.93	\$4,694	0.002%
613003	C 3	BRISTOL BAY TELEPHONE COOP. INC.	\$677,494	924	\$733.22	\$159,211	0.064%
613004	C 3	BUSH-TELL INC.	\$290,641	525	\$553.60	\$55,098	0.022%
613005	A 3	CIRCLE UTILITIES	\$12,220	18	\$678.89	\$2,735	0.001%
613006	C 3	COPPER VALLEY TEL. COOP. INC.	\$1,822,812	2,810	\$648.69	\$395,106	0.158%
613007	C 3	CORDOVA TELEPHONE COOPERATIVE, INC.	\$495,753	1,202	\$412.44	\$62,520	0.025%
613008	C 3	FAIRBANKS MUNICIPAL UTILITIES SYSTEM	\$10,659,293	22,980	\$463.85	\$1,638,294	0.656%
613009	C 2	GTE ALASKA INCORPORATED	\$2,462,732	11,214	\$219.61	\$0	0.000%
613010	C 2	GLACIER STATE TELEPHONE COMPANY	\$19,347,473	27,082	\$714.40	\$4,475,258	1.792%
613011	C 3	INTERIOR TELEPHONE COMPANY INC.	\$1,816,195	1,992	\$911.74	\$476,588	0.191%
613012	C 2	JUNEAU & DOUGLAS TELEPHONE COMPANY	\$5,041,896	13,442	\$375.09	\$510,893	0.205%
613013	C 3	KETCHIKAN PUBLIC UTILITIES	\$3,189,047	6,447	\$494.66	\$534,108	0.214%
613015	C 3	MATANUSKA TELEPHONE ASSOC., INC.	\$17,806,553	26,445	\$673.34	\$3,962,808	1.586%
613016	C 3	MUKLUK TEL. COMPANY, INC.	\$644,586	606	\$1,063.67	\$179,512	0.072%
613017	A 3	NATIONAL UTILITIES INC.	\$447,361	1,422	\$314.60	\$23,818	0.010%
613018	C 3	NUSHAGAK TELEPHONE COOPERATIVE, INC.	\$894,428	1,256	\$712.12	\$206,478	0.083%
613019	C 3	OTZ TELEPHONE COOPERATIVE, INC.	\$726,450	1,601	\$453.75	\$108,075	0.043%
613020	C 2	SITKA TELEPHONE COMPANY	\$3,401,633	7,286	\$466.87	\$527,686	0.211%
613022	C 2	TELEPHONE UTILITIES OF ALASKA	\$184,327	2,145	\$85.93	\$0	0.000%
613023	C 3	UNITED UTILITIES INC.	\$1,894,719	2,850	\$664.81	\$417,959	0.167%
613025	C 3	YUKON TELEPHONE COMPANY, INC.	\$267,008	356	\$750.02	\$63,584	0.025%
613026	A 3	NORTH COUNTRY TELEPHONE COMPANY	\$38,472	83	\$463.52	\$5,907	0.002%
613028	A 3	SUMMIT TEL & TEL CO OF ALASKA	\$21,765	38	\$572.76	\$4,261	0.002%

TABLE 3.4

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STATE TOTAL:		ARIZONA	\$446,716,177	1,692,428	\$263.95	\$6,740,138	2.698%
452171	C 3	ARIZONA TEL. CO.	\$989,695	1,688	\$586.31	\$197,858	0.079%
452172	C 2	CITIZENS UTILITIES RURAL COMPANY INC.	\$17,341,965	39,858	\$435.09	\$2,411,695	0.965%
452173	C 3	PAPAGO TRIBAL UTILITY AUTHORITY	\$302,209	643	\$470.00	\$47,324	0.019%
452174	A 3	SOUTHWESTERN TEL. CO.	\$384,078	1,708	\$224.87	\$0	0.000%
452175	C 3	UNIVERSAL TEL CO OF SOUTHWEST - AZ	\$328,913	1,045	\$314.75	\$17,554	0.007%
452176	C 3	VALLEY TELEPHONE COOPERATIVE INC-AZ	\$1,287,616	1,728	\$745.15	\$305,475	0.122%
452177	C 2	CONTEL OF THE WEST - ARIZONA	\$11,129,946	22,282	\$499.50	\$1,886,415	0.755%
452275	C 2	NAVAJO COMMUNICATIONS CO. INC. - AZ	\$6,444,875	6,701	\$961.78	\$1,728,965	0.692%
452302	C 2	CONTEL OF CALIFORNIA - ARIZONA	\$1,705,148	4,818	\$353.91	\$144,852	0.058%
455101	C 1	MOUNTAIN BELL-ARIZONA	\$406,801,732	1,611,957	\$252.37	\$0	0.000%
STATE TOTAL:		ARKANSAS	\$296,942,538	942,016	\$315.22	\$8,717,925	3.490%
401691	C 2	ALLTEL ARKANSAS, INC.	\$18,670,636	54,735	\$341.11	\$1,388,377	0.556%
401692	C 3	ARKANSAS TELEPHONE COMPANY	\$1,405,400	5,399	\$260.31	\$0	0.000%
401697	C 3	CENTRAL ARKANSAS TEL. COOP INC.	\$652,489	1,951	\$334.44	\$45,259	0.018%
401698	C 2	CLEVELAND CTY TEL. CO.	\$856,804	1,415	\$605.52	\$176,047	0.070%
401699	C 2	DECATUR TELEPHONE CO INC- ARKANSAS	\$212,476	674	\$315.25	\$11,432	0.005%
401702	C 3	SOUTH ARKANSAS TEL. CO., INC.	\$978,549	3,140	\$311.64	\$49,573	0.020%
401704	A 3	LAVACA TELEPHONE-AR	\$250,280	1,113	\$224.87	\$0	0.000%
401705	C 2	LIBERTY TEL. & COMMUNICATIONS INC.	\$3,583,926	10,444	\$343.16	\$271,893	0.109%
401709	C 3	MADISON COUNTY TEL. CO. INC.	\$613,613	1,892	\$324.32	\$37,667	0.015%
401710	A 3	MAGAZINE TELEPHONE COMPANY	\$174,672	645	\$270.81	\$1,624	0.001%
401711	C 2	MOUNTAIN HOME TELEPHONE COMPANY INC.	\$3,598,558	13,268	\$271.22	\$35,176	0.014%
401712	A 3	MOUNTAIN VIEW TELEPHONE COMPANY	\$790,001	3,426	\$230.59	\$0	0.000%
401713	C 3	NORTHERN ARKANSAS TEL. CO., INC.	\$1,285,303	3,703	\$347.10	\$101,873	0.041%
401717	A 3	PERCO TELEPHONE COMPANY	\$527,562	1,962	\$268.89	\$3,716	0.001%
401718	A 3	PRAIRIE GROVE TELEPHONE COMPANY	\$1,323,585	5,886	\$224.87	\$0	0.000%
401720	C 2	REDFIELD TELEPHONE COMPANY INC.	\$531,230	1,277	\$416.00	\$68,126	0.027%
401721	A 3	RICE BELT TEL. CO., INC.	\$251,567	890	\$282.66	\$5,669	0.002%
401722	C 3	E. RITTER TELEPHONE COMPANY	\$811,331	3,608	\$224.87	\$0	0.000%
401724	C 3	SOUTHWEST ARKANSAS TEL. COOP. INC.	\$995,499	4,427	\$224.87	\$0	0.000%
401726	C 3	TRI-COUNTY TEL. CO. INC.-AR	\$1,382,010	3,699	\$373.62	\$138,550	0.055%
401727	C 2	UNION TELEPHONE COMPANY INC.	\$532,571	846	\$629.52	\$112,872	0.045%
401728	C 2	UNITED TELEPHONE CO. OF ARK. INC.	\$3,986,146	15,279	\$260.89	\$0	0.000%
401729	C 3	WALNUT HILL TELEPHONE COMPANY	\$2,341,239	4,201	\$557.31	\$446,733	0.179%
401730	C 2	CONTEL OF ARKANSAS, INC.	\$22,628,018	60,592	\$373.45	\$2,265,667	0.907%
401733	C 3	YELCOT TEL. CO., INC.	\$873,161	2,399	\$363.97	\$81,175	0.032%
401734	C 3	YELL COUNTY TELEPHONE COMPANY	\$941,843	4,034	\$233.48	\$0	0.000%
402080	C 2	GTE SOUTHWEST INC. - ARKANSAS	\$21,677,837	59,105	\$366.77	\$2,062,007	0.825%
405211	C 1	SOUTHWESTERN BELL-ARKANSAS	\$205,066,232	672,006	\$305.16	\$1,414,489	0.566%
STATE TOTAL:		CALIFORNIA	\$3,356,116,841	15,370,310	\$218.35	\$19,063,982	7.632%
542301	C 3	CALAVERAS TELEPHONE COMPANY	\$823,935	1,509	\$546.01	\$154,072	0.062%
542302	C 2	CONTEL OF CALIFORNIA - CALIFORNIA	\$99,827,050	242,769	\$411.20	\$2,895,476	1.159%
542304	C 2	C P NATIONAL CORP. - CALIFORNIA	\$4,681,875	10,456	\$447.77	\$682,381	0.273%
542308	C 2	CITIZENS UTILITIES CO. OF CALIF.	\$27,946,896	51,442	\$543.27	\$5,199,484	2.082%
542311	C 3	CALIFORNIA-OREGON TELEPHONE CO	\$1,080,748	1,934	\$558.81	\$206,749	0.083%
542313	C 3	DUCOR TELEPHONE COMPANY	\$265,392	530	\$500.74	\$45,117	0.018%
542315	C 3	EVANS TELEPHONE COMPANY	\$2,692,302	7,171	\$375.44	\$273,491	0.109%
542318	C 3	FORESTHILL TELEPHONE COMPANY	\$604,578	1,648	\$366.86	\$57,550	0.023%
542319	C 2	GENERAL TEL CO OF CALIFORNIA	\$870,720,407	2,883,282	\$301.99	\$5,611,948	2.247%
542321	C 3	HAPPY VALLEY TELEPHONE COMPANY	\$1,571,428	2,425	\$648.01	\$340,354	0.136%
542322	C 3	HORNITOS TELEPHONE COMPANY	\$463,376	415	\$1,116.57	\$131,166	0.053%
542324	C 3	KERMAN TELEPHONE COMPANY	\$1,270,907	3,860	\$329.25	\$83,032	0.033%
542332	C 3	THE PONDEROSA TELEPHONE COMPANY	\$3,770,005	5,367	\$702.44	\$862,817	0.345%
542334	C 3	ROSEVILLE TELEPHONE COMPANY	\$14,087,168	60,197	\$234.02	\$0	0.000%
542338	C 3	SIERRA TELEPHONE COMPANY, INC.	\$5,343,328	10,642	\$502.10	\$911,338	0.365%
542339	C 3	THE SISKIYOU TELEPHONE CO.	\$1,637,537	3,000	\$545.85	\$306,127	0.123%

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CALIFORNIA (CONT.)							
542342	C 2	TUOLUMNE TELEPHONE COMPANY	\$3,804,859	4,026	\$945.07	\$1,013,544	0.406%
542343	C 3	THE VOLCANO TELEPHONE COMPANY	\$2,669,746	7,153	\$373.23	\$266,876	0.107%
542344	C 2	WEST COAST TEL. CO. OF CALIFORNIA	\$2,247,786	8,841	\$254.25	\$0	0.000%
542346	C 3	PINNACLES TELEPHONE COMPANY	\$89,183	107	\$833.49	\$22,460	0.009%
545170	C 1	PACIFIC BELL	\$2,310,518,335	12,063,536	\$191.53	\$0	0.000%
STATE TOTAL: COLORADO			\$355,192,060	1,714,885	\$207.12	\$1,314,603	0.526%
461835	C 3	SUNFLOWER TELEPHONE CO., INC. - CO	\$158,225	292	\$541.87	\$29,361	0.012%
462178	A 3	AGATE TELEPHONE CO.	\$26,833	50	\$536.66	\$4,930	0.002%
462181	C 3	BIJOU TEL COOPERATIVE ASSOC. INC	\$291,201	951	\$306.21	\$13,336	0.005%
462182	C 3	BLANCA TELEPHONE CO.	\$255,038	463	\$550.84	\$48,112	0.019%
462184	C 3	DELTA COUNTY TELE-COMM INC.	\$1,462,360	5,869	\$249.17	\$0	0.000%
462185	C 2	EAGLE TELECOMMUNICATIONS INC.	\$2,326,925	5,089	\$457.25	\$350,211	0.140%
462186	C 3	EASTERN SLOPE RURAL TEL ASSN INC	\$1,134,819	3,918	\$289.64	\$33,842	0.014%
462187	C 1	EL PASO COUNTY MUTUAL TEL CO	\$932,217	1,699	\$548.69	\$175,179	0.070%
462188	C 3	FARMERS TEL CO, INC. - COLORADO	\$183,382	269	\$681.72	\$41,155	0.016%
462190	C 3	HAXTUN TELEPHONE COMPANY	\$362,167	1,135	\$319.09	\$20,667	0.008%
462192	C 3	BIG SANDY TELECOM INC.	\$490,181	654	\$749.51	\$116,683	0.047%
462193	C 3	NUCLA-NATURITA TEL. CO.	\$488,800	1,020	\$479.22	\$78,597	0.031%
462194	C 3	NUNN TEL. COMPANY	\$143,108	256	\$559.02	\$27,387	0.011%
462196	C 3	PEETZ COOP. TEL. CO.	\$95,222	179	\$531.97	\$17,334	0.007%
462197	C 3	PHILLIPS COUNTY TEL. CO.	\$351,922	1,565	\$224.87	\$0	0.000%
462198	A 3	PINE DRIVE TEL. CO.	\$102,541	456	\$224.87	\$0	0.000%
462199	C 3	PLAINS COOPERATIVE TEL. ASSOC. INC.	\$481,996	1,454	\$331.50	\$32,340	0.013%
462201	A 3	RICO TEL. CO.	\$37,829	81	\$467.02	\$5,871	0.002%
462202	A 3	ROGGEN TELEPHONE COOPERATIVE CO.	\$60,603	166	\$365.08	\$5,686	0.002%
462203	C 3	THE RYE TELEPHONE CO. INC.	\$570,359	1,211	\$470.98	\$89,573	0.036%
462204	C 3	COLUMBINE TELEPHONE COMPANY	\$379,848	604	\$628.89	\$80,442	0.032%
462206	A 3	STONEHAM COOPERATIVE TEL. CO.	\$27,995	53	\$528.21	\$5,058	0.002%
462207	C 3	STRASBURG TEL. CO.	\$259,451	848	\$305.96	\$11,823	0.005%
462208	C 3	UNIVERSAL TEL. CO. OF COLORADO	\$1,221,100	3,707	\$329.40	\$79,922	0.032%
462209	C 3	WIGGINS TEL. ASSOC.	\$385,144	999	\$385.53	\$41,880	0.017%
462210	A 3	WILLARD TEL. CO.	\$29,508	57	\$517.68	\$5,214	0.002%
465102	C 1	MOUNTAIN BELL-COLORADO	\$342,933,286	1,681,840	\$203.90	\$0	0.000%
STATE TOTAL: CONNECTICUT			\$362,082,955	1,749,489	\$206.96	\$0	0.000%
132454	A 3	THE WOODBURY TEL. CO.	\$3,029,898	13,474	\$224.87	\$0	0.000%
135200	C 2	SOUTHERN NEW ENGLAND TEL.	\$359,053,057	1,736,015	\$206.83	\$0	0.000%
STATE TOTAL: DELAWARE			\$66,573,680	368,747	\$180.54	\$0	0.000%
565010	C 1	DIAMOND STATE TEL. CO.	\$66,573,680	368,747	\$180.54	\$0	0.000%
STATE TOTAL: DISTRICT OF COLUMBIA			\$81,760,698	776,011	\$105.36	\$0	0.000%
575020	C 1	C & P TELEPHONE CO. OF WASHINGTON DC	\$81,760,698	776,011	\$105.36	\$0	0.000%
STATE TOTAL: FLORIDA			\$1,951,032,231	6,651,854	\$293.31	\$13,696,724	5.483%
210291	C 3	FLORALA TELEPHONE COMPANY- FLORIDA	\$1,013,820	2,601	\$389.78	\$113,185	0.045%
210318	C 3	SOUTHLAND TELEPHONE COMPANY-FL	\$1,065,260	2,760	\$385.96	\$116,150	0.046%
210328	C 2	GTE FLORIDA INCORPORATED	\$411,437,112	1,495,957	\$275.03	\$895,143	0.358%
210329	C 3	GULF TEL. CO.- FL	\$1,953,065	6,708	\$291.15	\$61,234	0.025%
210330	C 3	VISTA-UNITED TELECOMMUNICATIONS SYSTE	\$1,430,161	6,986	\$204.72	\$0	0.000%
210331	C 3	INDIANTOWN TELEPHONE SYSTEM	\$1,076,563	1,802	\$597.43	\$218,735	0.088%
210335	C 3	NORTHEAST FLORIDA TEL. CO., INC.	\$1,814,697	4,581	\$396.14	\$210,272	0.084%
210336	C 2	ALLTEL FLORIDA INC.	\$17,854,943	43,513	\$410.34	\$2,228,994	0.892%
210338	C 2	QUINCY TELEPHONE CO-FL DIV.	\$2,450,462	7,627	\$321.29	\$144,333	0.058%

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FLORIDA (CONT.)								
210339	C 3	ST. JOSEPH TEL. AND TELE. CO.	\$6,571,430	19,472	\$337.48	\$470,944	0.189%	
210340	C 2	CENTRAL TELEPHONE COMPANY OF FLORIDA	\$46,605,289	220,686	\$211.18	\$0	0.000%	
210341	C 2	UNITED TELEPHONE CO. OF FLORIDA	\$241,357,044	851,230	\$283.54	\$871,553	0.349%	
215191	C 1	SOUTHERN BELL-FLORIDA	\$1,216,402,385	3,987,931	\$305.02	\$8,366,181	3.349%	
STATE TOTAL:			GEORGIA	\$837,318,079	2,965,465	\$282.36	\$11,830,160	4.736%
220281	C 2	CONTINENTAL TEL CO OF THE SOUTH-GA	\$19,427,284	57,262	\$339.27	\$1,418,233	0.568%	
220324	C 3	VALLEY TEL. CO.- GA	\$585,530	3,959	\$147.90	\$0	0.000%	
220338	C 2	QUINCY TELEPHONE CO-GA DIV.	\$204,665	533	\$383.99	\$22,037	0.009%	
220344	C 3	ALMA TELEPHONE CO INC	\$1,778,083	5,057	\$351.61	\$147,675	0.059%	
220346	A 3	BLUE RIDGE TELEPHONE COMPANY	\$1,121,427	4,987	\$224.87	\$0	0.000%	
220347	C 3	BRANTLEY TELEPHONE COMPANY INC.	\$955,741	2,754	\$347.04	\$75,703	0.030%	
220348	A 3	BULLOCH COUNTY RURAL TEL. COOP INC.	\$1,105,236	4,915	\$224.87	\$0	0.000%	
220351	C 3	CAMDEN TEL & TEL CO INC - GEORGIA	\$2,977,860	8,918	\$333.92	\$205,370	0.082%	
220354	A 3	CHICKAMAUGA TEL. CORP.	\$964,692	4,290	\$224.87	\$0	0.000%	
220355	C 3	CITIZENS TELEPHONE CO INC - GEORGIA	\$1,384,267	3,624	\$381.97	\$147,088	0.059%	
220356	C 3	COASTAL UTILITIES INC	\$4,162,631	18,942	\$219.76	\$0	0.000%	
220357	A 2	ALLTEL GEORGIA INC.	\$7,680,885	34,157	\$224.87	\$0	0.000%	
220358	C 3	DARIEN TELEPHONE CO. INC.	\$1,157,195	3,324	\$348.13	\$92,730	0.037%	
220360	C 3	ELLIJAY TEL. CO.	\$1,528,782	6,081	\$251.40	\$0	0.000%	
220362	A 3	FAIRMOUNT TELEPHONE CO. INC.	\$313,694	1,395	\$224.87	\$0	0.000%	
220364	A 3	GEORGIA TELEPHONE CORPORATION	\$1,206,428	5,365	\$224.87	\$0	0.000%	
220365	A 3	GLENWOOD TEL. CO. INC.	\$138,745	617	\$224.87	\$0	0.000%	
220368	A 3	HART COUNTY TELEPHONE COMPANY	\$1,373,056	6,106	\$224.87	\$0	0.000%	
220369	A 3	HAWKINSVILLE TELEPHONE CO.	\$749,042	3,331	\$224.87	\$0	0.000%	
220371	C 3	INTERSTATE TELEPHONE COMPANY	\$1,045,174	9,180	\$113.85	\$0	0.000%	
220375	A 3	NELSON-BALL GROUND TEL. CO.	\$722,507	3,213	\$224.87	\$0	0.000%	
220376	A 3	PEMBROKE TELEPHONE CO. INC.	\$558,577	2,484	\$224.87	\$0	0.000%	
220377	C 3	PINELAND TELEPHONE COOP	\$2,223,772	8,294	\$268.12	\$13,633	0.005%	
220378	A 3	PLANTERS RURAL TEL. COOP INC.	\$1,114,905	4,958	\$224.87	\$0	0.000%	
220379	C 3	PLANT TELEPHONE COMPANY	\$2,884,264	6,801	\$424.09	\$383,455	0.154%	
220380	A 3	PROGRESSIVE RURAL TEL. COOP INC.	\$743,870	3,308	\$224.87	\$0	0.000%	
220381	C 3	PUBLIC SERVICE TELEPHONE CO.	\$3,011,099	7,072	\$425.78	\$403,217	0.161%	
220382	A 3	RINGGOLD TEL. COMPANY	\$1,628,733	7,243	\$224.87	\$0	0.000%	
220386	C 3	STANDARD TEL. CO.	\$11,185,054	30,551	\$366.11	\$1,058,277	0.424%	
220387	A 3	STATESBORO TEL. CO.	\$2,746,112	12,212	\$224.87	\$0	0.000%	
220389	A 3	TRENTON TELEPHONE COMPANY	\$944,229	4,199	\$224.87	\$0	0.000%	
220392	C 3	WAVERLY HALL TEL. CO., INC.	\$267,595	854	\$313.34	\$13,955	0.006%	
220394	C 3	WILKES TEL & ELECTRIC CO.	\$1,328,002	8,451	\$157.14	\$0	0.000%	
220395	A 3	WILKINSON COUNTY TEL. CO. INC.	\$738,473	3,284	\$224.87	\$0	0.000%	
220479	C 2	GTE SOUTH INC. - GEORGIA	\$66,595,492	183,717	\$362.49	\$6,114,503	2.448%	
225192	C 1	SOUTHERN BELL-GEORGIA	\$690,764,978	2,494,027	\$276.97	\$1,734,284	0.694%	
STATE TOTAL:			HAWAII	\$86,178,523	503,271	\$171.24	\$0	0.000%
623100	C 2	GTE HAWAIIAN TEL. CO. INC.	\$86,178,523	503,271	\$171.24	\$0	0.000%	
STATE TOTAL:			IDAHO	\$120,809,121	428,590	\$281.88	\$3,937,408	1.576%
472177	C 2	CONTEL OF THE WEST - IDAHO	\$6,071,354	12,075	\$502.80	\$1,037,224	0.415%	
472213	C 3	ALBION TEL. CO. INC.	\$631,546	898	\$703.28	\$144,648	0.058%	
472215	C 3	CAMBRIDGE TEL. CO., INC.-ID	\$441,166	811	\$543.98	\$82,187	0.033%	
472218	C 3	CUSTER TEL. COOPERATIVE INC.	\$441,687	1,283	\$344.26	\$33,930	0.014%	
472220	A 3	FILER MUTUAL TELEPHONE COMPANY - ID	\$349,448	1,554	\$224.87	\$0	0.000%	
472221	A 3	FARMERS MUTUAL TEL CO LTD. - ID	\$357,993	1,592	\$224.87	\$0	0.000%	
472223	C 2	GEM STATE UTILITIES CORP-ID	\$817,671	816	\$1,002.05	\$222,864	0.089%	
472225	C 2	CENTURY TELEPHONE OF IDAHO	\$1,192,988	2,303	\$518.01	\$210,960	0.084%	
472226	C 3	MIDVALE TEL. EXCH. INC.	\$188,804	268	\$704.49	\$43,291	0.017%	
472227	A 3	MUD LAKE TEL. COOP. INC. ASSOC.	\$342,425	1,019	\$336.04	\$24,168	0.010%	

TABLE 3.4

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STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1989 AT 4/8 TRANSITION	PERCENT OF TOTAL
IDAHO (CONT.)							
472230	A 3	POTLATCH TELEPHONE COMPANY INC.	\$164,422	570	\$288.46	\$4,705	0.002%
472231	C 3	PROJECT MUTUAL TEL. COOP. ASSN.	\$1,098,759	5,833	\$188.37	\$0	0.000%
472232	C 3	ROCKLAND TEL. CO., INC.	\$255,570	349	\$732.29	\$60,013	0.024%
472233	C 3	RURAL TELEPHONE COMPANY - ID	\$208,995	223	\$937.20	\$55,482	0.022%
472234	C 2	TROY TELEPHONE COMPANY	\$228,993	643	\$356.13	\$19,867	0.008%
472295	C 3	SILVER STAR TEL. CO. INC.-ID	\$195,965	313	\$626.09	\$41,357	0.017%
472416	C 2	GTE NORTHWEST INC. - IDAHO	\$22,513,414	63,636	\$353.78	\$1,910,094	0.765%
472423	C 3	INLAND TELEPHONE COMPANY - ID	\$177,420	194	\$914.54	\$46,618	0.019%
475103	C 1	MOUNTAIN BELL-IDAHO	\$79,826,300	312,454	\$255.48	\$0	0.000%
475162	C 1	PACIFIC NORTHWEST BELL-IDAHO	\$5,304,201	21,756	\$243.80	\$0	0.000%
STATE TOTAL:			\$965,754,364	5,904,874	\$163.55	\$1,221,094	0.489%
340976	A 3	ADAMS TELEPHONE COOPERATIVE	\$1,099,578	3,923	\$280.29	\$21,965	0.009%
340978	A 3	ALHAMBRA-GRANTFORK TELEPHONE COMPANY	\$205,981	916	\$224.87	\$0	0.000%
340983	A 3	CAMBRIDGE TELEPHONE COMPANY - IL	\$353,721	1,573	\$224.87	\$0	0.000%
340984	A 3	CASS COUNTY TELEPHONE COMPANY	\$524,622	2,333	\$224.87	\$0	0.000%
340985	C 2	CENTRAL TEL. CO. OF IL	\$26,631,108	164,348	\$162.04	\$0	0.000%
340986	A 3	CHANDLERVILLE TELEPHONE COMPANY	\$114,234	508	\$224.87	\$0	0.000%
340990	A 3	CLARKSVILLE MUTUAL TELEPHONE COMPANY	\$55,014	142	\$387.42	\$6,054	0.002%
340993	A 3	CROSSVILLE TELEPHONE COMPANY	\$151,787	675	\$224.87	\$0	0.000%
340998	A 3	DEPUE TELEPHONE COMPANY	\$175,399	780	\$224.87	\$0	0.000%
341000	C 2	ALLTEL ILLINOIS INC.	\$6,374,687	37,783	\$168.72	\$0	0.000%
341003	C 3	EGYPTIAN TELEPHONE COOPERATIVE ASSN.	\$640,605	2,497	\$256.55	\$0	0.000%
341004	C 3	EL PASO TELEPHONE COMPANY	\$325,852	1,526	\$213.53	\$0	0.000%
341009	C 3	C-R TELEPHONE COMPANY	\$197,632	858	\$230.34	\$0	0.000%
341011	C 3	LAKESIDE TEL. CO.	\$247,005	725	\$340.70	\$18,293	0.007%
341012	A 3	FLAT ROCK MUTUAL TELEPHONE COMPANY	\$103,215	459	\$224.87	\$0	0.000%
341015	C 2	GTE NORTH INC. - ILLINOIS	\$114,711,749	530,366	\$216.29	\$0	0.000%
341016	A 3	GENESEO TELEPHONE COMPANY	\$1,434,895	6,381	\$224.87	\$0	0.000%
341017	A 3	GLASFORD TELEPHONE COMPANY	\$245,783	1,093	\$224.87	\$0	0.000%
341020	A 3	GRAFTON TELEPHONE COMPANY	\$159,658	710	\$224.87	\$0	0.000%
341021	A 3	THE GRANDVIEW MUTUAL TELEPHONE COMPAN	\$44,839	104	\$431.14	\$6,139	0.002%
341023	C 3	GRIDLEY TELEPHONE COMPANY	\$260,652	1,074	\$242.69	\$0	0.000%
341024	A 3	HAMILTON COUNTY TELEPHONE COOP.	\$597,589	2,152	\$277.69	\$10,230	0.004%
341025	A 3	SHAWNEE TELEPHONE COMPANY	\$865,104	3,601	\$240.24	\$0	0.000%
341026	A 3	HARRISONVILLE TELEPHONE COMPANY	\$3,046,989	13,550	\$224.87	\$0	0.000%
341029	A 3	HENRY COUNTY TEL. CO.	\$359,342	1,598	\$224.87	\$0	0.000%
341032	A 3	HOME TELEPHONE COMPANY - ST JACOB	\$164,830	733	\$224.87	\$0	0.000%
341036	C 2	CONTEL OF ILLINOIS, INC.	\$43,216,757	152,278	\$283.80	\$1,026,306	0.411%
341037	C 2	ILLINOIS CONSOLIDATED TELEPHONE COMPA	\$18,724,207	71,408	\$262.21	\$0	0.000%
341038	C 3	INLAND TEL. CO.	\$1,101,439	3,994	\$275.77	\$16,495	0.007%
341041	A 3	KINSMAN MUTUAL TELEPHONE COMPANY	\$36,852	78	\$472.46	\$5,813	0.002%
341043	A 3	LA HARPE TELEPHONE COMPANY	\$240,161	1,068	\$224.87	\$0	0.000%
341045	C 3	LEAF RIVER VALLEY TELEPHONE COMPANY	\$209,823	559	\$375.35	\$21,301	0.009%
341046	A 3	LEONORE MUTUAL TELEPHONE COMPANY	\$57,184	151	\$378.70	\$5,944	0.002%
341047	A 3	MCDONOUGH TELEPHONE COOPERATIVE INC.	\$1,100,918	4,305	\$255.73	\$0	0.000%
341048	A 3	MENABB TELEPHONE COMPANY	\$96,287	402	\$239.52	\$0	0.000%
341049	A 3	MADISON TELEPHONE COMPANY	\$287,804	1,195	\$240.84	\$0	0.000%
341050	A 3	MARSEILLES TEL. CO. OF MARS.	\$657,520	2,924	\$224.87	\$0	0.000%
341053	A 3	METAMORA TELEPHONE COMPANY	\$578,141	2,571	\$224.87	\$0	0.000%
341054	A 3	MID CENTURY TEL. COOP. INC.	\$1,113,597	4,025	\$276.67	\$17,800	0.007%
341055	C 3	MIDLAND TELEPHONE COMPANY	\$1,233,709	4,026	\$306.44	\$56,757	0.023%
341058	A 3	MONTROSE MUTUAL TELEPHONE COMPANY	\$350,499	1,298	\$270.03	\$2,939	0.001%
341060	C 3	MOULTRIE INDEPENDENT TELEPHONE COMPAN	\$121,492	672	\$180.79	\$0	0.000%
341061	A 3	MT. PULASKI TELEPHONE & ELECTRIC CO.	\$398,470	1,772	\$224.87	\$0	0.000%
341062	A 3	NEW WINDSOR TELEPHONE COMPANY	\$127,726	568	\$224.87	\$0	0.000%
341065	A 3	ODIN TELEPHONE EXCHANGE INC.	\$244,209	1,086	\$224.87	\$0	0.000%
341066	A 3	ONEIDA TELEPHONE EXCHANGE	\$110,411	491	\$224.87	\$0	0.000%
341067	A 3	ORION TELEPHONE EXCHANGE ASSOCIATION	\$363,840	1,618	\$224.87	\$0	0.000%

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ILLINOIS (CONT.)							
341073	C 3	PRAIRIE TEL. CO.	\$201,469	944	\$213.42	\$0	0.000%
341075	A 3	REYNOLDS TELEPHONE COMPANY	\$116,708	519	\$224.87	\$0	0.000%
341079	A 3	SCHUYLER TELEPHONE COMPANY - IL	\$605,575	2,693	\$224.87	\$0	0.000%
341086	A 3	TONICA TELEPHONE COMPANY	\$105,239	468	\$224.87	\$0	0.000%
341087	A 3	VIOLA HOME TELEPHONE COMPANY	\$157,184	699	\$224.87	\$0	0.000%
341088	A 3	WABASH TELEPHONE COOPERATIVE INC.	\$1,002,470	4,458	\$224.87	\$0	0.000%
341091	A 3	WOODHULL COMMUNITY TELEPHONE COMPANY	\$142,792	635	\$224.87	\$0	0.000%
341092	A 3	STELLE TEL. CO.	\$27,995	53	\$528.21	\$5,058	0.002%
341093	A 3	YATES CITY TELEPHONE COMPANY	\$111,311	495	\$224.87	\$0	0.000%
345070	C 1	ILLINOIS BELL TEL CO	\$733,820,705	4,857,013	\$151.08	\$0	0.000%
STATE TOTAL: INDIANA			\$523,299,153	2,400,280	\$218.02	\$835,476	0.334%
320742	A 3	BLOOMINGDALE HOME TEL. CO. INC.	\$128,401	571	\$224.87	\$0	0.000%
320744	A 3	CAMDEN TELEPHONE CO INC - INDIANA	\$337,980	1,503	\$224.87	\$0	0.000%
320747	A 2	CENTRAL INDIANA TELEPHONE CO. INC.	\$490,891	2,183	\$224.87	\$0	0.000%
320750	A 3	CITIZEN'S TEL CO, INC. FAIRMOUNT, IN	\$470,203	2,091	\$224.87	\$0	0.000%
320751	A 3	CITIZENS TELEPHONE CORP - WARREN	\$326,961	1,454	\$224.87	\$0	0.000%
320753	C 3	CLAY CTY RURAL TEL. COOP. INC.	\$1,615,019	7,685	\$210.15	\$0	0.000%
320756	A 3	CRAIGVILLE TELEPHONE CO INC.	\$133,573	594	\$224.87	\$0	0.000%
320759	A 3	DAVISS-MARTIN CTY RURAL TEL CORP	\$503,484	2,239	\$224.87	\$0	0.000%
320762	C 2	ELNORA TELEPHONE COMPANY INC.	\$78,307	414	\$189.15	\$0	0.000%
320771	A 3	GEETINGSVILLE TELEPHONE CO INC.	\$96,192	401	\$239.88	\$0	0.000%
320772	C 2	GTE NORTH INC. - INDIANA	\$124,180,017	516,984	\$240.20	\$0	0.000%
320775	A 3	HANCOCK RURAL TELEPHONE CORP.	\$1,021,360	4,542	\$224.87	\$0	0.000%
320776	A 2	COMMUNICATIONS CORP OF INDIANA	\$1,583,759	7,043	\$224.87	\$0	0.000%
320777	A 2	HOME TELEPHONE COMPANY OF PITTSBORO I	\$315,942	1,405	\$224.87	\$0	0.000%
320778	C 2	HOME TELEPHONE COMPANY INC.	\$504,446	1,783	\$282.92	\$11,507	0.005%
320779	C 2	CONTEL OF INDIANA, INC.	\$35,336,152	129,843	\$272.15	\$383,483	0.154%
320783	A 3	LIGONIER TELEPHONE COMPANY	\$442,994	1,970	\$224.87	\$0	0.000%
320784	A 3	LIBERTY CENTER TELEPHONE COMPANY	\$124,128	552	\$224.87	\$0	0.000%
320788	A 3	MERCHANTS & FARMERS TELEPHONE CO	\$116,258	517	\$224.87	\$0	0.000%
320790	A 3	MONON TELEPHONE CO. INC.	\$297,278	1,322	\$224.87	\$0	0.000%
320792	A 3	MULBERRY COOP. TELEPHONE CO INC.	\$402,967	1,792	\$224.87	\$0	0.000%
320796	A 3	NEW LISBON TELEPHONE COMPANY INC.	\$166,854	742	\$224.87	\$0	0.000%
320797	C 3	NEW PARIS TELEPHONE INC.	\$361,669	1,491	\$242.57	\$0	0.000%
320800	A 3	NORTHWESTERN INDIANA TEL. CO. INC.	\$1,956,367	7,225	\$270.78	\$18,122	0.007%
320801	A 3	ODON TEL. CO.	\$308,522	1,372	\$224.87	\$0	0.000%
320807	C 3	PERRY-SPENCER RURAL TEL. COOP. INC.	\$840,789	3,739	\$224.87	\$0	0.000%
320809	A 3	POSEYVILLE TELEPHONE CO INC.	\$177,647	790	\$224.87	\$0	0.000%
320813	C 3	PULASKI-WHITE RURAL TEL. COOP. INC.	\$348,324	1,549	\$224.87	\$0	0.000%
320815	A 3	ROCHESTER TELEPHONE CO. INC.	\$1,012,590	4,503	\$224.87	\$0	0.000%
320816	A 3	S & W TEL. CO., INC.	\$105,239	468	\$224.87	\$0	0.000%
320818	A 3	SMITHVILLE TEL. CO., INC.	\$4,636,595	20,619	\$224.87	\$0	0.000%
320819	A 3	SOUTHEASTERN IND. RURAL TEL. COOP INC	\$671,462	2,986	\$224.87	\$0	0.000%
320825	A 3	SUNMAN TEL. CO. INC.	\$685,404	3,048	\$224.87	\$0	0.000%
320826	A 3	SWAYZEE TEL. CO. INC.	\$210,029	934	\$224.87	\$0	0.000%
320827	A 3	SWEETSER RURAL TEL. CO. INC.	\$297,953	1,325	\$224.87	\$0	0.000%
320828	A 3	THORNTOWN TELEPHONE CO. INC.	\$442,994	1,970	\$224.87	\$0	0.000%
320829	A 3	TIPTON TELEPHONE COMPANY INC.	\$896,557	3,987	\$224.87	\$0	0.000%
320830	C 3	TRI-COUNTY TEL. CO. INC.-IN	\$562,850	2,503	\$224.87	\$0	0.000%
320831	A 2	ALLTEL INDIANA INC.	\$1,778,947	7,911	\$224.87	\$0	0.000%
320832	C 2	UNITED TELEPHONE CO. OF INDIANA INC.	\$45,256,113	167,095	\$270.84	\$422,364	0.169%
320833	A 3	WADESVILLE TELEPHONE COMPANY INC.	\$99,818	440	\$226.86	\$0	0.000%
320834	A 3	WASH. CTY. RURAL TEL. COOP. INC.	\$476,500	2,119	\$224.87	\$0	0.000%
320837	A 3	WEST POINT TELEPHONE CO. INC.	\$128,176	570	\$224.87	\$0	0.000%
320839	C 3	YEOMAN TELEPHONE COMPANY INC.	\$228,018	1,014	\$224.87	\$0	0.000%
325080	C 1	INDIANA BELL TEL CO	\$293,143,424	1,474,992	\$198.74	\$0	0.000%



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STATE TOTAL:	IOWA		\$263,182,378	1,290,550	\$203.93	\$603,506	0.242%
351096	A 3	AMANA SOCIETY SERVICE CO.	\$210,928	938	\$224.87	\$0	0.000%
351097	A 3	ANDREW TELEPHONE CO. INC.	\$85,312	307	\$277.89	\$1,479	0.001%
351098	A 3	ARCADIA TELEPHONE COOP	\$85,845	311	\$276.03	\$1,311	0.001%
351101	A 3	ATKINS TELEPHONE COMPANY	\$120,081	534	\$224.87	\$0	0.000%
351105	C 3	AYRSHIRE FMRS. MUT. TEL. CO.	\$78,145	388	\$201.40	\$0	0.000%
351107	A 3	BALDWIN-NASHVILLE TELEPHONE CO. INC.	\$87,050	320	\$272.03	\$933	0.000%
351108	A 3	BARNES CITY COOP TELEPHONE CO.	\$61,482	170	\$361.66	\$5,605	0.002%
351110	C 3	BERNARD TELEPHONE COMPANY INC.	\$187,882	467	\$402.32	\$22,518	0.009%
351112	A 3	BREDA TELEPHONE COOPERATIVE	\$265,093	991	\$267.50	\$1,429	0.001%
351113	C 3	BROOKLYN MUTUAL TELEPHONE COMPANY	\$275,691	1,226	\$224.87	\$0	0.000%
351114	A 3	THE BURT TELEPHONE COMPANY	\$98,396	425	\$231.52	\$0	0.000%
351115	A 3	BUTLER-BREMER MUT. TELEPHONE COMPANY	\$402,742	1,791	\$224.87	\$0	0.000%
351118	A 3	CASCADE TELEPHONE COMPANY	\$303,350	1,349	\$224.87	\$0	0.000%
351119	A 3	CASEY MUTUAL TELEPHONE CO.	\$99,231	433	\$229.17	\$0	0.000%
351121	A 3	CENTER JUNCTION TEL. CO., INC.	\$52,800	133	\$396.99	\$6,147	0.002%
351125	A 3	CENTRAL SCOTT TELEPHONE	\$845,061	3,758	\$224.87	\$0	0.000%
351126	A 3	CHESTER TELEPHONE COMPANY- IOWA	\$69,534	209	\$332.70	\$4,730	0.002%
351127	A 2	CENTRAL TELEPHONE COMPANY - IOWA	\$10,576,760	47,035	\$224.87	\$0	0.000%
351129	A 3	THE CITIZENS MUTUAL TELEPHONE COMPANY	\$737,124	3,278	\$224.87	\$0	0.000%
351130	A 3	CLARENCE TELEPHONE COMPANY INC.	\$164,830	733	\$224.87	\$0	0.000%
351132	A 3	CLEAR LAKE INDP TELEPHONE CO	\$1,291,428	5,743	\$224.87	\$0	0.000%
351133	A 3	C-M-L TEL COOP ASSN	\$264,216	766	\$344.93	\$20,450	0.008%
351134	A 3	COLO TELEPHONE COMPANY	\$124,353	553	\$224.87	\$0	0.000%
351136	A 3	COON CREEK TELEPHONE COMPANY	\$118,956	529	\$224.87	\$0	0.000%
351137	A 3	COON VALLEY COOP TEL. ASSN. INC.	\$171,026	617	\$277.19	\$2,833	0.001%
351139	A 3	COOPERATIVE TELEPHONE COMPANY	\$352,135	1,311	\$268.60	\$2,359	0.001%
351141	A 3	CORN BELT TELEPHONE COMPANY	\$157,184	699	\$224.87	\$0	0.000%
351146	A 3	CUMBERLAND TEL. CO.	\$96,381	403	\$239.16	\$0	0.000%
351147	A 3	DANVILLE MUT. TELEPHONE COMPANY	\$183,044	814	\$224.87	\$0	0.000%
351148	A 3	DEEP RIVER MUT. TELEPHONE COMPANY	\$83,531	294	\$284.12	\$2,012	0.001%
351149	A 3	DEFIANCE TELEPHONE COMPANY	\$77,054	252	\$305.77	\$3,498	0.001%
351150	A 3	DIXON TELEPHONE COMPANY	\$122,779	546	\$224.87	\$0	0.000%
351152	A 3	DUMONT TELEPHONE COMPANY	\$117,382	522	\$224.87	\$0	0.000%
351153	C 3	DUNKERTON TELEPHONE COOP., INC.	\$126,827	564	\$224.87	\$0	0.000%
351156	A 3	EAST BUCHANAN TELEPHONE COOP	\$297,892	1,303	\$228.62	\$0	0.000%
351157	A 3	ELLSWORTH COOP TELEPHONE ASSN.	\$165,793	580	\$285.85	\$4,295	0.002%
351160	A 3	FARMERS & BUSINESSMEN'S TEL. CO.	\$214,976	956	\$224.87	\$0	0.000%
351162	A 3	FARMERS COOP TELEPHONE CO - DYSART	\$260,399	1,158	\$224.87	\$0	0.000%
351166	A 3	FARMERS & MERCHANTS MUTUAL TEL. CO.	\$153,811	684	\$224.87	\$0	0.000%
351168	A 3	FARMERS MUTUAL COOP TEL CO- HARLAN	\$531,824	1,717	\$309.74	\$26,047	0.010%
351169	A 3	FARMERS MUTUAL COOP TEL CO- MOULTON	\$125,927	560	\$224.87	\$0	0.000%
351171	A 3	FARMERS MUTUAL TEL CO- JESUP	\$370,586	1,648	\$224.87	\$0	0.000%
351172	A 3	FARMERS MUTUAL TEL CO - NORA SPRINGS	\$496,513	2,208	\$224.87	\$0	0.000%
351173	A 3	FARMERS MUTUAL TEL CO - SHELLSBURG	\$343,152	1,526	\$224.87	\$0	0.000%
351174	A 3	FARMERS MUTUAL TEL CO - STANTON	\$272,744	1,054	\$258.77	\$0	0.000%
351175	A 3	FARMERS TELEPHONE COMPANY- BATAVIA	\$93,040	370	\$251.46	\$0	0.000%
351176	A 3	FARMERS TELEPHONE COMPANY- ESSEX	\$151,113	672	\$224.87	\$0	0.000%
351177	A 3	FARMERS TEL. CO.-RICEVILLE	\$385,577	1,611	\$239.34	\$0	0.000%
351179	A 3	FENTON CO-OP TELEPHONE COMPANY	\$93,253	372	\$250.68	\$0	0.000%
351186	C 2	GTE NORTH INC. - IOWA	\$21,948,497	102,739	\$213.63	\$0	0.000%
351187	A 3	MID-IOWA TELEPHONE CO.	\$234,090	1,041	\$224.87	\$0	0.000%
351188	A 3	GOLDFIELD TEL. CO.	\$120,980	538	\$224.87	\$0	0.000%
351189	A 3	RIVER VALLEY TEL. COOP.	\$197,892	861	\$229.84	\$0	0.000%
351191	A 3	GRAND MOUND COOP TELEPHONE ASSN.	\$119,856	533	\$224.87	\$0	0.000%
351195	A 3	GRISWOLD CO-OP TELEPHONE COMPANY	\$436,023	1,939	\$224.87	\$0	0.000%
351199	A 3	HAWKEYE TELEPHONE COMPANY	\$100,517	447	\$224.87	\$0	0.000%
351202	A 3	HOSPERS TELEPHONE EXCHANGE INC.	\$136,946	609	\$224.87	\$0	0.000%
351203	A 3	HUBBARD COOP TEL. ASSN.	\$172,250	766	\$224.87	\$0	0.000%
351205	A 3	HUXLEY COOP TELEPHONE COMPANY	\$299,977	1,334	\$224.87	\$0	0.000%
351206	A 3	IAMO TELEPHONE COMPANY- IA	\$139,297	420	\$331.66	\$9,364	0.004%

TABLE 3.4

National Exchange Carrier Association  
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IOWA (CONT.)							
351207	C 2	CONTEL OF IOWA, INC.	\$18,298,232	67,153	\$272.49	\$205,753	0.082%
351209	A 3	INTERSTATE 35 TELEPHONE COMPANY	\$261,308	962	\$271.63	\$2,679	0.001%
351212	A 3	JEFFERSON TELEPHONE COMPANY- IA	\$663,816	2,952	\$224.87	\$0	0.000%
351213	A 3	JORDAN SOLDIER VAL COOP TEL. CO.	\$78,333	260	\$301.28	\$3,229	0.001%
351214	C 3	KALONA COOP TELEPHONE COMPANY	\$343,376	1,527	\$224.87	\$0	0.000%
351217	A 3	KEYSTONE FRMS. COOP TELEPHONE CO	\$256,880	928	\$276.81	\$4,146	0.002%
351220	A 3	LA PORTE CITY TELEPHONE COMPANY	\$394,872	1,756	\$224.87	\$0	0.000%
351222	A 3	LA MOTTE TELEPHONE CO.	\$113,334	504	\$224.87	\$0	0.000%
351223	A 3	LAUREL TELEPHONE COMPANY INC.	\$81,960	283	\$289.61	\$2,442	0.001%
351225	A 3	LEHIGH VALLEY COOP TEL. ASSN.	\$410,163	1,824	\$224.87	\$0	0.000%
351228	A 3	LONE ROCK CO-OP TELEPHONE CO	\$82,397	286	\$288.10	\$2,327	0.001%
351229	C 3	LOST NATION - ELWOOD TEL. CO.	\$169,228	595	\$284.42	\$4,130	0.002%
351230	A 3	NORTHEAST IOWA TELEPHONE CO.	\$384,078	1,708	\$224.87	\$0	0.000%
351232	A 3	LYNNVILLE COMM. TEL. CO. INC.	\$86,502	316	\$273.74	\$1,097	0.000%
351235	A 3	MANILLA TELEPHONE COMPANY	\$129,075	574	\$224.87	\$0	0.000%
351237	A 3	MARNE & ELK HORN TELEPHONE CO	\$351,132	1,303	\$269.48	\$2,718	0.001%
351238	A 3	MARTELLE COOP TELEPHONE ASSN	\$80,929	276	\$293.22	\$2,705	0.001%
351239	A 3	MASSENA TELEPHONE COMPANY	\$174,801	646	\$270.59	\$1,580	0.001%
351241	A 3	MECHANICSVILLE TELEPHONE COMPANY	\$167,753	746	\$224.87	\$0	0.000%
351242	A 3	MILES COOP TEL. ASSN.	\$148,189	659	\$224.87	\$0	0.000%
351243	A 3	MILLER TELEPHONE COMPANY-IA	\$43,676	100	\$436.76	\$6,113	0.002%
351245	A 3	MINBURN TELEPHONE COMPANY	\$99,486	436	\$228.18	\$0	0.000%
351246	A 3	MINERVA VALLEY TELEPHONE CO. INC.	\$188,912	767	\$246.30	\$0	0.000%
351247	A 3	MODERN COOP TELEPHONE COMPANY	\$248,335	867	\$286.43	\$6,584	0.003%
351248	A 3	MONTEZUMA MUTUAL TELEPHONE COMPANY	\$348,773	1,551	\$224.87	\$0	0.000%
351249	A 3	MORLEY TELEPHONE COMPANY	\$55,032	142	\$387.55	\$6,061	0.002%
351250	A 3	MUTUAL TEL. CO. OF MORNING SUN	\$130,200	579	\$224.87	\$0	0.000%
351251	A 3	MEDIAPOLIS TELEPHONE COMPANY	\$341,128	1,517	\$224.87	\$0	0.000%
351252	A 3	MUTUAL TEL. CO.	\$661,568	2,942	\$224.87	\$0	0.000%
351257	A 3	NORTH ENGLISH COOP TEL. COMPANY	\$159,208	708	\$224.87	\$0	0.000%
351259	A 3	NORTHERN IOWA TELEPHONE COMPANY	\$625,172	2,367	\$264.12	\$814	0.000%
351260	A 3	NORTHWEST IOWA TEL CO INC	\$579,040	2,575	\$224.87	\$0	0.000%
351261	A 3	NORTHWEST TEL. COOP.	\$330,441	1,151	\$287.09	\$8,988	0.004%
351262	A 3	NORWAY RURAL TELEPHONE COMPANY	\$136,946	609	\$224.87	\$0	0.000%
351263	A 3	OGDEN TELEPHONE COMPANY - IA	\$355,070	1,579	\$224.87	\$0	0.000%
351264	A 3	OLIN TELEPHONE CO INC.	\$118,506	527	\$224.87	\$0	0.000%
351265	A 3	ONSLow COOP TELEPHONE ASSN.	\$69,909	211	\$331.32	\$4,681	0.002%
351266	A 3	ORAN MUTUAL TELEPHONE COMPANY	\$72,466	225	\$322.07	\$4,315	0.002%
351269	A 3	PALO COOP TEL. ASSN.	\$88,400	331	\$267.07	\$431	0.000%
351270	A 3	PALMER MUTUAL TELEPHONE CO.	\$87,401	323	\$270.59	\$790	0.000%
351271	A 3	PANORA COOP TEL. ASSN. INC.	\$282,212	1,255	\$224.87	\$0	0.000%
351273	A 3	PEOPLES TELEPHONE COMPANY - IA	\$175,848	782	\$224.87	\$0	0.000%
351274	A 3	POSTVILLE TELEPHONE COMPANY	\$298,627	1,328	\$224.87	\$0	0.000%
351275	A 3	PRAIRIEBURG TELEPHONE COMPANY INC.	\$64,039	182	\$351.86	\$5,332	0.002%
351276	A 3	PRESTON TELEPHONE COMPANY	\$249,381	1,109	\$224.87	\$0	0.000%
351277	A 3	RADCLIFFE TELEPHONE CO INC.	\$107,488	478	\$224.87	\$0	0.000%
351278	A 3	READLYN TELEPHONE COMPANY	\$153,811	684	\$224.87	\$0	0.000%
351280	A 3	RINGSTED TELEPHONE COMPANY	\$103,215	459	\$224.87	\$0	0.000%
351282	A 3	ROCKWELL COOP TELEPHONE ASSN.	\$342,194	1,235	\$277.08	\$5,626	0.002%
351283	A 3	ROYAL TEL. CO.	\$95,113	390	\$243.88	\$0	0.000%
351284	A 3	RUTHVEN TEL. EXCH. CO.	\$140,993	627	\$224.87	\$0	0.000%
351285	A 3	SAC COUNTY MUTUAL TEL. CO.	\$231,841	1,031	\$224.87	\$0	0.000%
351291	A 3	SCHALLER TEL. CO.	\$386,062	1,616	\$238.90	\$0	0.000%
351292	A 3	SEARSBORO TEL. CO.	\$113,898	300	\$379.66	\$11,916	0.005%
351293	A 3	SHARON TEL. CO.	\$200,238	889	\$225.24	\$0	0.000%
351294	A 3	SCRANTON TEL. CO.	\$111,086	494	\$224.87	\$0	0.000%
351295	A 3	SHELL ROCK TEL. CO.	\$198,560	883	\$224.87	\$0	0.000%
351297	A 3	HEART OF IOWA TELEPHONE COOP	\$560,821	1,898	\$295.48	\$19,997	0.008%
351298	A 3	SOUTH SLOPE COOP TEL. CO.	\$1,120,302	4,982	\$224.87	\$0	0.000%
351301	A 3	SOUTHWEST TEL. EXCH., INC.	\$214,559	660	\$325.09	\$13,305	0.005%



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IOWA (CONT.)							
351302	A 3	SPRINGVILLE COOP TEL. ASSN.	\$238,362	1,060	\$224.87	\$0	0.000%
351303	A 3	COOPERATIVE TELEPHONE EXCHANGE	\$171,823	623	\$275.80	\$2,579	0.001%
351304	A 3	SWISHER TEL. CO.	\$120,755	537	\$224.87	\$0	0.000%
351305	A 3	STRATFORD MUTUAL TEL. CO.	\$128,176	570	\$224.87	\$0	0.000%
351306	A 3	SULLY TEL. ASSOC.	\$209,129	930	\$224.87	\$0	0.000%
351307	A 3	SUPERIOR TEL. COOP.	\$62,987	177	\$355.86	\$5,451	0.002%
351308	A 3	TEMPLETON TELEPHONE COMPANY	\$88,645	333	\$266.20	\$340	0.000%
351309	A 3	TERRIL TELEPHONE COMPANY	\$92,605	366	\$253.02	\$0	0.000%
351310	A 3	TITONKA TELEPHONE COMPANY	\$127,951	569	\$224.87	\$0	0.000%
351316	C 3	UNITED FARMERS TELEPHONE COMPANY	\$167,485	512	\$327.12	\$10,659	0.004%
351317	C 2	UNITED TELEPHONE CO. OF IOWA	\$13,596,964	60,939	\$223.12	\$0	0.000%
351319	A 3	VAN BUREN TELEPHONE CO INC.	\$625,172	2,367	\$264.12	\$814	0.000%
351320	A 3	VAN HORNE COOP TELEPHONE CO.	\$104,565	465	\$224.87	\$0	0.000%
351322	A 3	VENTURA TELEPHONE CO. INC.	\$107,713	479	\$224.87	\$0	0.000%
351324	A 3	VILLISCA FARMERS TELEPHONE CO.	\$257,701	1,146	\$224.87	\$0	0.000%
351326	A 3	WALNUT TELEPHONE COMPANY	\$165,055	734	\$224.87	\$0	0.000%
351327	C 3	WEBB-DICKENS TELEPHONE CORPORATION	\$137,962	438	\$314.98	\$7,390	0.003%
351328	A 3	WEBSTER-CALHOUN COOP TELEPHONE ASSN.	\$1,298,752	4,449	\$291.92	\$41,726	0.017%
351329	C 3	WELLMAN COOP TELEPHONE ASSN.	\$244,209	1,086	\$224.87	\$0	0.000%
351331	A 3	WEST IOWA TELEPHONE COMPANY	\$1,025,632	4,561	\$224.87	\$0	0.000%
351332	A 3	WEST LIBERTY TELEPHONE COMPANY	\$373,284	1,660	\$224.87	\$0	0.000%
351334	A 3	WESTERN IOWA TELEPHONE ASSN.	\$735,009	2,879	\$255.30	\$0	0.000%
351335	A 3	WESTSIDE INDP. TELEPHONE COMPANY	\$89,849	343	\$261.95	\$0	0.000%
351336	A 3	WILTON TELEPHONE COMPANY	\$367,438	1,634	\$224.87	\$0	0.000%
351337	A 3	WINNEBAGO COOP TELEPHONE ASSN - IA	\$1,420,447	5,789	\$245.37	\$0	0.000%
351341	A 3	SCHUYLER TELEPHONE COMPANY - IA	\$194,737	866	\$224.87	\$0	0.000%
351342	A 3	WOOLSTOCK MUT. TELEPHONE ASSN.	\$78,491	261	\$300.73	\$3,195	0.001%
351343	A 3	WYOMING MUTUAL TELEPHONE COMPANY	\$140,993	627	\$224.87	\$0	0.000%
351344	A 3	PRAIRIE TELEPHONE COMPANY INC.	\$260,925	959	\$272.08	\$2,811	0.001%
351346	C 3	ACE TELEPHONE ASSOCIATION- IOWA	\$859,098	3,724	\$230.69	\$0	0.000%
351405	A 3	HILLS TEL. CO., INC.- IA	\$381,345	1,569	\$243.05	\$0	0.000%
351424	A 3	MABEL COOPERATIVE TELEPHONE CO. IA	\$242,050	824	\$293.75	\$8,218	0.003%
351888	C 3	GRAND RIVER MUTUAL TEL CORP - IA	\$1,660,191	5,404	\$307.22	\$77,554	0.031%
355141	C 1	NORTHWESTERN BELL-IOWA	\$158,884,005	849,568	\$187.02	\$0	0.000%
STATE TOTAL:			\$307,439,967	1,191,394	\$258.05	\$6,781,667	2.715%
411741	C 3	ASSARIA TELEPHONE EXCHANGE INC.	\$136,380	422	\$323.18	\$8,245	0.003%
411746	C 3	BLUE VALLEY TELEPHONE COMPANY	\$729,128	2,637	\$276.50	\$11,516	0.005%
411756	A 3	COLUMBUS TELEPHONE COMPANY	\$413,311	1,838	\$224.87	\$0	0.000%
411758	A 3	COUNCIL GROVE TEL. CO.	\$370,361	1,647	\$224.87	\$0	0.000%
411761	C 3	CUNNINGHAM TELEPHONE CO. INC.	\$622,812	1,515	\$411.10	\$78,039	0.031%
411764	C 3	ELKHART TELEPHONE COMPANY INC.	\$330,819	1,407	\$235.12	\$0	0.000%
411777	C 3	GOLDEN BELT TELEPHONE ASSN. INC.	\$1,183,994	3,567	\$331.93	\$79,836	0.032%
411778	A 3	GORHAM TELEPHONE COMPANY INC.	\$111,997	292	\$383.55	\$12,024	0.005%
411780	C 3	HAVILAND TELEPHONE COMPANY INC.	\$994,181	3,473	\$286.26	\$26,184	0.010%
411781	C 3	H & B COMMUNICATIONS INC.	\$494,096	950	\$520.10	\$87,767	0.035%
411782	C 3	HOME TELEPHONE COMPANY INC.	\$573,654	1,194	\$480.45	\$92,556	0.037%
411785	C 3	J. B. N. TELEPHONE COMPANY INC.	\$700,800	2,105	\$332.92	\$47,791	0.019%
411788	C 3	KANOKLA TEL. ASSOC. INC.- KS	\$803,440	2,270	\$353.94	\$68,272	0.027%
411789	C 2	KANSAS STATE TELEPHONE COMPANY	\$1,096,231	5,137	\$213.40	\$0	0.000%
411790	C 2	CONTEL OF KANSAS, INC	\$21,568,622	44,827	\$481.15	\$3,486,630	1.396%
411791	A 3	LA HARPE TELEPHONE COMPANY INC.	\$89,010	336	\$264.91	\$202	0.000%
411801	C 3	MADISON TEL. CO. INC.- KS	\$445,083	747	\$595.83	\$90,226	0.036%
411807	C 3	MOKAN DIAL, INC.- KS	\$495,076	1,883	\$262.92	\$0	0.000%
411808	C 3	MOUNDRIDGE TEL. CO.	\$1,032,267	2,120	\$486.92	\$169,480	0.068%
411809	A 3	MUTUAL TELEPHONE COMPANY	\$99,818	440	\$226.86	\$0	0.000%
411814	C 3	PEOPLES MUTUAL TEL. CO.-KS	\$370,469	996	\$371.96	\$36,686	0.015%
411817	A 3	PIONEER TELEPHONE ASSOCIATION INC.	\$1,938,307	10,809	\$179.32	\$0	0.000%
411818	C 3	CRAW-KAN TELEPHONE COOP INC- KS	\$3,107,911	11,386	\$272.96	\$36,625	0.015%

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KANSAS (CONT.)							
411820	C 3	RAINBOW TEL COOPERATIVE ASSN INC.	\$577,092	1,786	\$323.12	\$34,860	0.014%
411826	C 3	RURAL TEL. SERVICE CO., INC.	\$2,893,435	6,554	\$441.48	\$412,269	0.165%
411827	C 3	S & T TEL. COOP. ASSN.	\$1,050,805	1,598	\$657.58	\$230,018	0.092%
411829	C 3	S & A TEL. CO., INC.	\$178,408	674	\$264.70	\$359	0.000%
411831	C 3	SOUTH CENTRAL TEL. ASSN. INC.-KS	\$412,762	1,065	\$387.57	\$45,462	0.018%
411833	C 3	SOUTHERN KANSAS TEL. CO., INC.	\$980,914	3,149	\$311.50	\$49,572	0.020%
411835	C 3	SUNFLOWER TEL. CO., INC.	\$2,103,712	3,841	\$547.70	\$394,609	0.158%
411839	C 3	TRI-COUNTY TEL. ASSN. INC.-KS	\$975,527	3,117	\$312.97	\$50,558	0.020%
411840	C 3	TWIN VALLEY TEL. INC.-KS	\$998,728	2,119	\$471.32	\$157,004	0.063%
411841	C 3	UNITED TELEPHONE ASSN. INC.	\$1,729,859	4,492	\$385.10	\$187,590	0.075%
411842	C 2	UNITED TELEPHONE CO OF KS	\$17,965,116	62,991	\$285.20	\$453,201	0.181%
411845	C 3	WAMEGO TELEPHONE COMPANY INC.	\$810,207	3,603	\$224.87	\$0	0.000%
411847	C 3	THE WHEAT STATE TEL. CO. INC.	\$901,137	1,931	\$466.67	\$139,707	0.056%
411849	C 3	WILSON TELEPHONE COMPANY INC.	\$808,022	2,051	\$393.96	\$92,466	0.037%
411852	C 3	ZENDA TELEPHONE COMPANY INC.	\$127,363	228	\$558.61	\$24,357	0.010%
412030	C 3	TOTAH TELEPHONE CO. INC.	\$828,245	1,296	\$639.08	\$177,556	0.071%
415214	C 1	SOUTHWESTERN BELL-KANSAS	\$236,390,868	988,901	\$239.04	\$0	0.000%
STATE TOTAL: KENTUCKY			\$406,870,157	1,460,288	\$278.62	\$3,980,902	1.594%
260396	A 3	BALLARD RURAL TEL. COOP. CORP. INC.	\$1,135,818	5,051	\$224.87	\$0	0.000%
260398	A 3	BRANDENBURG TELEPHONE COMPANY, INC.	\$3,700,011	16,454	\$224.87	\$0	0.000%
260401	A 3	DUO COUNTY TEL. COOP. INC.	\$1,761,856	7,835	\$224.87	\$0	0.000%
260402	A 2	ALLTEL KENTUCKY, INC.	\$3,203,273	14,245	\$224.87	\$0	0.000%
260406	A 3	FOOTHILLS RURAL TEL. COOP. CORP. INC.	\$2,328,079	10,353	\$224.87	\$0	0.000%
260407	C 2	GTE SOUTH INC. - KENTUCKY	\$91,711,072	293,933	\$312.01	\$719,364	0.288%
260408	A 3	HAROLD TELEPHONE CO INC.	\$975,711	4,339	\$224.87	\$0	0.000%
260410	C 2	CONTINENTAL TELEPHONE CO OF KENTUCKY	\$21,859,758	51,873	\$421.41	\$2,872,581	1.150%
260411	A 3	LESLIE COUNTY TEL. CO. INC.	\$1,293,003	5,750	\$224.87	\$0	0.000%
260412	A 3	LEWISPORT TEL. CO. INC.	\$225,545	1,003	\$224.87	\$0	0.000%
260413	A 3	LOGAN TELEPHONE COOPERATIVE, INC.	\$1,117,604	4,970	\$224.87	\$0	0.000%
260414	A 3	MOUNTAIN RURAL TEL. COOP. CORP. INC.	\$2,153,130	9,575	\$224.87	\$0	0.000%
260415	A 3	PEOPLES RURAL TEL. COOP. CORP.	\$1,128,398	5,018	\$224.87	\$0	0.000%
260417	A 3	SALEM TEL. CO.	\$364,065	1,619	\$224.87	\$0	0.000%
260418	A 3	SOUTH CENTRAL RURAL TEL. COOP. CORP. INC.	\$4,114,671	18,298	\$224.87	\$0	0.000%
260419	A 3	THACKER/GRIGSBY TEL. CO., INC.	\$1,267,817	5,638	\$224.87	\$0	0.000%
260421	A 3	WEST KY. RURAL TEL. COOP. CORP. INC.	\$2,911,167	12,946	\$224.87	\$0	0.000%
265061	C 2	CINCINNATI BELL-KENTUCKY	\$30,902,102	128,716	\$240.08	\$0	0.000%
265182	C 1	SOUTH CENTRAL BELL-KENTUCKY	\$234,717,077	862,672	\$272.08	\$388,957	0.156%
STATE TOTAL: LOUISIANA			\$574,467,833	1,837,702	\$312.60	\$9,310,029	3.727%
270422	C 2	ATHENS TELEPHONE COMPANY	\$202,766	277	\$732.01	\$47,603	0.019%
270423	C 2	CENTRAL LOUISIANA TELEPHONE COMPANY	\$5,952,859	12,230	\$486.74	\$976,883	0.391%
270424	C 2	COASTAL TELEPHONE & ELECTRONICS CORP.	\$3,193,053	9,141	\$349.31	\$259,053	0.104%
270425	C 3	CAMERON TEL. CO.- LA	\$3,124,364	5,501	\$567.96	\$606,944	0.243%
270426	A 3	CAMPTI-PLEASANT HILL TEL. COMPANY	\$398,072	1,749	\$227.60	\$0	0.000%
270427	C 3	CHATHAM TELEPHONE COMPANY, INC.	\$280,413	1,247	\$224.87	\$0	0.000%
270428	A 3	DELCAMBRE TELEPHONE COMPANY	\$228,693	1,017	\$224.87	\$0	0.000%
270429	C 3	EAST ASCENSION TELEPHONE COMPANY	\$6,644,291	19,877	\$334.27	\$460,002	0.184%
270430	C 3	ELIZABETH TELEPHONE COMPANY INC	\$1,407,517	2,266	\$621.15	\$295,214	0.118%
270431	C 2	CADDOAN TELEPHONE COMPANY	\$2,688,736	7,649	\$351.51	\$223,081	0.089%
270432	A 3	KAPLAN TELEPHONE COMPANY	\$985,830	4,384	\$224.87	\$0	0.000%
270433	C 3	LAFOURCHE TEL. CO.	\$4,480,257	10,886	\$411.56	\$562,626	0.225%
270434	C 2	EVANGELINE TELEPHONE COMPANY	\$8,740,361	24,736	\$353.35	\$738,485	0.296%
270435	C 3	NORTHEAST LOUISIANA TEL. CO. INC.	\$488,189	814	\$599.74	\$99,512	0.040%
270436	C 2	NORTHWEST LOUISIANA TEL. CO. INC.	\$337,075	982	\$343.25	\$25,598	0.010%
270437	C 2	PLAIN DEALING TELEPHONE COMPANY	\$816,799	1,449	\$563.70	\$157,558	0.063%
270438	A 3	RESERVE TELEPHONE COMPANY	\$852,932	3,793	\$224.87	\$0	0.000%
270439	C 3	RINGGOLD TEL. CO., INC.	\$339,329	1,509	\$224.87	\$0	0.000%

TABLE 3.4

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STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1989 AT 4/8 TRANSITION	PERCENT OF TOTAL
LOUISIANA (CONT.)							
270440	C 2	CENTURY TELEPHONE COMPANY INC.	\$969,125	1,371	\$706.87	\$222,684	0.089%
270441	A 3	STAR TEL. CO., INC.	\$934,785	4,157	\$224.87	\$0	0.000%
270442	C 2	LOUISIANA WESTERN TELEPHONE COMPANY	\$2,183,497	2,909	\$750.60	\$520,197	0.208%
270443	C 2	UNITED TELEPHONE COMPANY OF LOUISIANA	\$1,504,504	2,401	\$626.62	\$317,727	0.127%
275183	C 1	SOUTH CENTRAL BELL-LOUISIANA	\$527,714,386	1,717,357	\$307.28	\$3,796,862	1.520%
STATE TOTAL: MAINE			\$150,050,417	582,183	\$257.74	\$1,276,918	0.511%
100002	A 3	BRYANT POND TEL. CO.	\$99,570	437	\$227.85	\$0	0.000%
100003	C 3	LINCOLNVILLE TEL. CO.	\$371,774	1,116	\$333.13	\$25,413	0.010%
100004	C 3	CHINA TEL. CO.	\$596,285	2,265	\$263.26	\$145	0.000%
100005	A 3	COBBOSSÉECONTEE TEL. CO.	\$134,922	600	\$224.87	\$0	0.000%
100007	A 3	ISLAND TEL. CO.	\$19,109	32	\$597.16	\$3,881	0.002%
100010	C 3	HAMPDEN TEL. CO.	\$446,511	2,047	\$218.13	\$0	0.000%
100011	C 2	HARTLAND & ST. ALBANS TEL. CO.	\$881,940	1,720	\$512.76	\$154,170	0.062%
100014	C 2	CONTINENTAL TEL. CO OF MAINE	\$11,689,868	34,360	\$340.22	\$861,618	0.345%
100015	A 3	COMMUNITY SERVICE TEL. CO.	\$1,495,386	6,650	\$224.87	\$0	0.000%
100019	A 3	OXFORD COUNTY TEL. & TELE. CO.	\$621,766	2,765	\$224.87	\$0	0.000%
100020	A 3	PINE TREE TEL. & TELE. CO.	\$913,647	4,063	\$224.87	\$0	0.000%
100022	A 3	SACO RIVER TEL. & TELE. CO.	\$1,146,837	5,100	\$224.87	\$0	0.000%
100024	C 2	SOMERSET TEL. CO.	\$1,760,851	7,790	\$226.04	\$0	0.000%
100025	C 3	STANDISH TEL. CO.	\$1,563,765	4,489	\$348.35	\$125,601	0.050%
100027	C 3	UNION RIVER TEL. CO.	\$368,872	721	\$511.61	\$64,315	0.026%
100029	C 3	UNITY TEL. CO.	\$898,063	2,948	\$304.63	\$39,826	0.016%
100031	C 2	WARREN TEL. CO.	\$192,372	1,024	\$187.86	\$0	0.000%
100034	C 2	WEST PENOBSCOT TEL. & TEL. CO.	\$400,591	1,500	\$267.06	\$1,949	0.001%
105111	C 1	NEW ENGLAND TEL.-MAINE	\$126,448,288	502,556	\$251.61	\$0	0.000%
STATE TOTAL: MARYLAND			\$470,874,601	2,525,912	\$186.42	\$0	0.000%
180216	C 3	ARMSTRONG TELEPHONE COMPANY OF MD	\$864,465	3,906	\$221.32	\$0	0.000%
185030	C 1	C & P TELEPHONE COMPANY OF MARYLAND	\$470,010,136	2,522,006	\$186.36	\$0	0.000%
STATE TOTAL: MASSACHUSETTS			\$500,249,852	3,302,933	\$151.46	\$0	0.000%
110036	A 3	GRANBY TEL. & TELE. CO - MA	\$483,695	2,151	\$224.87	\$0	0.000%
110037	A 3	RICHMOND TEL. CO.	\$189,790	844	\$224.87	\$0	0.000%
115112	C 1	NEW ENGLAND TEL.-MA	\$499,576,367	3,299,938	\$151.39	\$0	0.000%
STATE TOTAL: MICHIGAN			\$824,733,311	4,454,281	\$185.16	\$917,812	0.367%
310669	A 3	ALLENDALE TELEPHONE COMPANY	\$771,529	3,431	\$224.87	\$0	0.000%
310671	A 2	CENTURY TELEPHONE MIDWEST, INC.	\$514,503	2,288	\$224.87	\$0	0.000%
310672	A 2	AUGUSTA TEL. CO.	\$345,175	1,535	\$224.87	\$0	0.000%
310675	A 3	BARAGA TELEPHONE COMPANY	\$688,327	3,061	\$224.87	\$0	0.000%
310676	A 3	BARRY COUNTY TELEPHONE COMPANY	\$1,220,819	5,429	\$224.87	\$0	0.000%
310677	A 3	ISLAND TELEPHONE COMPANY	\$166,219	583	\$285.11	\$4,177	0.002%
310678	C 3	BLANCHARD TELEPHONE ASSOC. INC.	\$209,579	932	\$224.87	\$0	0.000%
310679	C 3	BLOOMINGDALE TELEPHONE COMPANY	\$554,110	1,431	\$387.22	\$60,898	0.024%
310680	C 3	CHIPPEWA COUNTY TELEPHONE COMPANY	\$255,512	767	\$333.13	\$17,466	0.007%
310681	C 2	ALLTEL MICHIGAN INC.	\$8,597,145	35,992	\$238.86	\$0	0.000%
310682	C 3	C, C & S TELCO, INC. - MICHIGAN	\$2,937,905	17,019	\$172.63	\$0	0.000%
310683	C 3	CARR TELEPHONE COMPANY	\$293,384	1,201	\$244.28	\$0	0.000%
310684	A 2	CENTRAL TELEPHONE COMPANY					
310685	C 2	CHATHAM TELEPHONE COMPANY - MI	\$524,217	2,115	\$247.86	\$0	0.000%
310687	C 2	CLAYTON TELEPHONE COMPANY	\$187,481	557	\$336.59	\$13,310	0.005%
310688	A 3	CLIMAX TELEPHONE COMPANY	\$203,957	907	\$224.87	\$0	0.000%
310691	A 3	DEERFIELD FARMERS TELEPHONE COMPANY	\$477,399	2,123	\$224.87	\$0	0.000%
310692	A 3	DRENTHÉ TELEPHONE COMPANY	\$111,086	494	\$224.87	\$0	0.000%
310694	A 3	FARMERS MUTUAL TEL CO OF CHAPIN	\$88,889	335	\$265.34	\$248	0.000%

TABLE 3.4

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MICHIGAN (CONT.)									
310695	C 2	GTE NORTH INC. - MICHIGAN	\$115,578,331	455,914	\$253.51	\$0	0.000%		
310698	A 2	HADLEY TELEPHONE COMPANY	MERGED IN 1988,	1987 DATA MISSING					
310699	C 2	HICKORY TELEPHONE COMPANY	\$240,832	1,159	\$207.79	\$0	0.000%		
310702	C 2	CENTURY TELEPHONE OF MICHIGAN, INC.	\$10,786,804	37,914	\$284.51	\$264,277	0.106%		
310703	A 3	KALEVA TELEPHONE COMPANY	\$286,993	1,187	\$241.78	\$0	0.000%		
310704	C 3	ACE TELEPHONE CO. OF MI INC.	\$1,377,405	3,146	\$437.83	\$193,588	0.077%		
310705	A 3	KINGSLEY TELEPHONE COMPANY	\$414,885	1,845	\$224.87	\$0	0.000%		
310708	A 3	LENNON TELEPHONE COMPANY	\$360,017	1,601	\$224.87	\$0	0.000%		
310711	C 3	MIDWAY TELEPHONE COMPANY	\$347,425	719	\$483.21	\$56,479	0.023%		
310713	C 3	HIAWATHA TELEPHONE COMPANY	\$1,025,314	3,358	\$305.33	\$46,129	0.018%		
310714	A 3	OGDEN TELEPHONE COMPANY	\$78,174	259	\$301.83	\$3,263	0.001%		
310717	C 3	ONTONAGON COUNTY TELEPHONE CO.	\$808,073	3,662	\$220.66	\$0	0.000%		
310720	A 3	PENINSULA TELEPHONE COMPANY - MI	\$197,886	880	\$224.87	\$0	0.000%		
310721	C 3	PIGEON TELEPHONE COMPANY	\$775,038	2,479	\$312.64	\$39,943	0.016%		
310725	A 3	SAND CREEK TEL. CO.	\$187,317	833	\$224.87	\$0	0.000%		
310726	A 2	SHIAWASSEE TELEPHONE COMPANY	\$868,223	3,861	\$224.87	\$0	0.000%		
310728	C 3	SPRINGPORT TEL. CO.	\$392,621	1,538	\$255.28	\$0	0.000%		
310732	C 3	UPPER PENINSULA TEL. CO.	\$1,390,590	2,956	\$470.43	\$218,034	0.087%		
310734	C 3	WALDRON TELEPHONE COMPANY	\$123,229	548	\$224.87	\$0	0.000%		
310735	C 3	WESTPHALIA TELEPHONE COMPANY	\$171,801	764	\$224.87	\$0	0.000%		
310737	A 3	WINN TELEPHONE COMPANY	\$128,320	510	\$251.61	\$0	0.000%		
310738	C 2	WOLVERINE TELEPHONE COMPANY	\$1,397,909	6,935	\$201.57	\$0	0.000%		
315090	C 1	MICHIGAN BELL TEL CO	\$669,648,888	3,842,013	\$174.30	\$0	0.000%		
STATE TOTAL:			MINNESOTA		\$454,792,146	2,133,524	\$213.16	\$1,705,270	0.683%
361140	C 2	CONTEL OF MINNESOTA, INC.	\$26,894,563	93,037	\$289.07	\$786,389	0.315%		
361186	C 2	GTE NORTH INC. - MINNESOTA	\$686,696	3,249	\$211.36	\$0	0.000%		
361337	A 3	WINNEBAGO COOP TELEPHONE ASSOC - MN	\$263,238	761	\$345.91	\$20,596	0.008%		
361346	C 3	ACE TELEPHONE ASSOCIATION - MN	\$1,639,662	8,639	\$189.80	\$0	0.000%		
361347	A 3	ALBANY MUTUAL TELEPHONE ASSN. INC.	\$513,828	2,285	\$224.87	\$0	0.000%		
361350	C 3	ARVIG TELEPHONE COMPANY	\$1,703,827	8,598	\$198.17	\$0	0.000%		
361353	A 3	CITY OF BARNESVILLE TELEPHONE CO	\$213,402	949	\$224.87	\$0	0.000%		
361356	A 3	BENTON COOPERATIVE TELEPHONE CO.	\$634,808	2,823	\$224.87	\$0	0.000%		
361357	C 3	BLACKDUCK TELEPHONE COMPANY	\$225,545	1,003	\$224.87	\$0	0.000%		
361358	A 3	BLUE EARTH VALLEY TELEPHONE CO.	\$1,602,424	7,126	\$224.87	\$0	0.000%		
361362	C 3	BRIDGEWATER TELEPHONE COMPANY	\$1,259,529	4,170	\$302.05	\$52,838	0.021%		
361365	A 3	CALLAWAY TELEPHONE COMPANY	\$70,837	216	\$327.95	\$4,555	0.002%		
361367	C 2	CENTRAL TELEPHONE COMPANY - MN	\$12,951,150	69,689	\$185.84	\$0	0.000%		
361370	C 3	CLARA CITY TELEPHONE EXCH. CO.	\$580,390	1,491	\$389.26	\$64,592	0.026%		
361372	A 3	CLEMENTS TELEPHONE COMPANY	\$59,259	160	\$370.37	\$5,798	0.002%		
361373	C 3	CONSOLIDATED TELEPHONE COMPANY- MN	\$1,337,527	5,948	\$224.87	\$0	0.000%		
361374	C 3	ARROWHEAD COMMUNICATIONS CORP.	\$213,289	551	\$387.09	\$23,424	0.009%		
361375	A 3	MID-COMMUNICATIONS INC.	\$1,646,498	7,322	\$224.87	\$0	0.000%		
361377	A 3	DANUBE TELEPHONE COMPANY	\$100,149	444	\$225.56	\$0	0.000%		
361379	C 3	DEER RIVER TELEPHONE CO.	\$507,311	1,560	\$325.20	\$31,504	0.013%		
361380	A 3	DELAVAN TELEPHONE COMPANY	\$90,142	345	\$261.28	\$0	0.000%		
361381	A 3	DUNNELL TELEPHONE COMPANY INC.	\$78,333	260	\$301.28	\$3,229	0.001%		
361383	C 3	EAGLE VALLEY TELEPHONE COMPANY	\$140,094	623	\$224.87	\$0	0.000%		
361384	A 3	EASTON TELEPHONE COMPANY	\$73,870	233	\$317.04	\$4,087	0.002%		
361385	C 3	EAST OTTER TAIL TELEPHONE CO.	\$3,168,078	12,550	\$252.44	\$0	0.000%		
361386	A 3	ECKLES TELEPHONE COMPANY	\$596,805	2,654	\$224.87	\$0	0.000%		
361387	C 3	EMILY COOPERATIVE TELEPHONE CO.	\$218,574	972	\$224.87	\$0	0.000%		
361389	A 3	FARMERS MUTUAL TEL CO - BELLINGHAM	\$330,154	1,149	\$287.34	\$9,066	0.004%		
361390	A 3	FEDERATED TELEPHONE COOPERATIVE	\$567,413	1,941	\$292.33	\$18,463	0.007%		
361391	A 3	FELTON TELEPHONE COMPANY INC.	\$220,222	691	\$318.70	\$12,495	0.005%		
361395	C 3	GARDONVILLE TELEPHONE COMPANY	\$3,227,286	12,621	\$255.71	\$0	0.000%		
361396	A 3	GARDONVILLE COOPERATIVE TEL. ASSN.	\$484,370	2,154	\$224.87	\$0	0.000%		
361399	C 3	GRANADA TEL. CO.	\$77,216	253	\$305.20	\$3,465	0.001%		
361401	C 3	HALSTAD TELEPHONE COMPANY	\$550,282	1,421	\$387.25	\$60,488	0.024%		

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----- MINNESOTA (CONT.) -----							
361403	A 3	HANCOCK TELEPHONE COMPANY- MN	\$149,089	663	\$224.87	\$0	0.000%
361404	A 3	HARMONY TELEPHONE COMPANY	\$194,779	826	\$235.81	\$0	0.000%
361405	A 3	HILLS TELEPHONE CO. INC. - MN	\$157,967	528	\$299.18	\$6,198	0.002%
361407	A 3	HOHMAN TELEPHONE COMPANY	\$1,269,616	5,646	\$224.87	\$0	0.000%
361408	A 3	HOME TEL. CO.- MN	\$350,572	1,559	\$224.87	\$0	0.000%
361409	A 3	HUTCHINSON TELEPHONE COMPANY	\$1,589,156	7,067	\$224.87	\$0	0.000%
361410	C 3	JOHNSON TELEPHONE COMPANY	\$784,119	1,316	\$595.84	\$158,958	0.064%
361412	A 3	KASSON & MANTORVILLE TEL. CO.	\$525,521	2,337	\$224.87	\$0	0.000%
361413	A 3	K M P TELEPHONE COMPANY	\$327,636	1,457	\$224.87	\$0	0.000%
361414	C 3	LAKEDALE TELEPHONE COMPANY	\$1,991,050	9,109	\$218.58	\$0	0.000%
361419	A 3	LISMORE COOPERATIVE TELEPHONE CO.	\$88,524	332	\$266.64	\$386	0.000%
361422	A 3	LONSDALE TELEPHONE COMPANY	\$259,050	1,152	\$224.87	\$0	0.000%
361423	A 3	LOWRY TELEPHONE COMPANY	\$154,261	686	\$224.87	\$0	0.000%
361424	A 3	MABEL COOPERATIVE TELEPHONE CO.- MN	\$185,284	734	\$252.43	\$0	0.000%
361425	C 3	MADELIA TELEPHONE COMPANY	\$334,607	1,488	\$224.87	\$0	0.000%
361426	A 3	MANCHESTER-HARTLAND TELEPHONE CO.	\$164,067	568	\$288.85	\$4,760	0.002%
361427	A 3	MANKATO CITIZENS TELEPHONE CO.	\$5,661,777	25,178	\$224.87	\$0	0.000%
361430	A 3	MELROSE TELEPHONE COMPANY	\$1,511,126	6,720	\$224.87	\$0	0.000%
361431	A 3	MIDWEST TEL. CO.	\$505,508	2,248	\$224.87	\$0	0.000%
361433	C 2	MID STATE TELEPHONE COMPANY	\$1,221,749	5,256	\$232.45	\$0	0.000%
361437	A 3	MINNESOTA LAKE TELEPHONE COMPANY	\$114,234	508	\$224.87	\$0	0.000%
361439	A 3	MINNESOTA VALLEY TEL. CO. INC.	\$264,406	986	\$268.16	\$1,633	0.001%
361440	A 3	CANNON VALLEY TELECOM, INC.	\$401,618	1,786	\$224.87	\$0	0.000%
361442	C 3	NEW ULM TELECOM, INC.	\$1,580,254	8,013	\$197.21	\$0	0.000%
361443	C 3	NORMAN COUNTY TELEPHONE CO. INC.	\$926,156	3,572	\$259.28	\$0	0.000%
361445	C 3	NORTHLAND TELEPHONE COMPANY	\$126,377	562	\$224.87	\$0	0.000%
361448	A 3	OSAKIS TELEPHONE COMPANY	\$329,435	1,465	\$224.87	\$0	0.000%
361450	A 3	PARK REGION MUTUAL TEL. CO.	\$763,659	3,396	\$224.87	\$0	0.000%
361451	C 3	PAUL BUNYAN RURAL TEL. COOP.	\$1,673,388	4,966	\$336.97	\$119,283	0.048%
361453	A 3	PEOPLES TELEPHONE COMPANY - MN	\$297,977	1,304	\$228.51	\$0	0.000%
361454	A 3	PINE ISLAND TELEPHONE COMPANY	\$483,920	2,152	\$224.87	\$0	0.000%
361456	C 2	UNITED TELEPHONE CO OF MINN	\$25,176,859	92,925	\$270.94	\$237,905	0.095%
361472	A 3	REDWOOD COUNTY TEL. CO.	\$913,872	4,064	\$224.87	\$0	0.000%
361473	A 3	ROCK DELL TEL. CO.	\$94,709	386	\$245.36	\$0	0.000%
361474	A 3	ROTHSAY TELEPHONE COMPANY INC.	\$109,512	487	\$224.87	\$0	0.000%
361475	A 3	RUNESTONE TEL. ASSN.	\$838,608	3,344	\$250.78	\$0	0.000%
361476	A 3	SACRED HEART TEL. CO.	\$117,382	522	\$224.87	\$0	0.000%
361479	A 3	SCOTT RICE TEL. CO.	\$1,692,372	7,526	\$224.87	\$0	0.000%
361482	C 3	SHERBURNE COUNTY RURAL TEL. CO.	\$1,243,531	5,530	\$224.87	\$0	0.000%
361483	C 3	SLEEPY EYE TEL. CO.	\$1,410,152	5,137	\$274.51	\$19,112	0.008%
361485	A 3	SPRING GROVE COOP TEL CO	\$252,079	1,121	\$224.87	\$0	0.000%
361487	C 3	STARBUCK TEL. CO.	\$243,084	1,081	\$224.87	\$0	0.000%
361491	C 3	TWIN VALLEY-ULEN TEL CO INC.	\$801,807	2,719	\$294.89	\$28,125	0.011%
361494	A 3	UPSALA COOPERATIVE TELEPHONE ASSN.	\$187,766	835	\$224.87	\$0	0.000%
361495	A 3	VALLEY TEL. CO.-MN	\$146,166	650	\$224.87	\$0	0.000%
361499	C 3	CROSSLAKE TELEPHONE COMPANY	\$238,587	1,061	\$224.87	\$0	0.000%
361500	A 3	NORTHERN TELEPHONE COMPANY OF MN	\$18,652	31	\$601.68	\$3,812	0.002%
361501	A 3	WEST CENTRAL TELEPHONE ASSN.	\$679,332	3,021	\$224.87	\$0	0.000%
361502	A 3	WESTERN TELEPHONE COMPANY	\$480,547	2,137	\$224.87	\$0	0.000%
361505	A 3	WIKSTROM TELEPHONE COMPANY INC.	\$1,257,141	5,279	\$238.14	\$0	0.000%
361507	A 3	WINSTED TELEPHONE COMPANY	\$278,164	1,237	\$224.87	\$0	0.000%
361508	A 3	WINTHROP TEL. CO.	\$225,545	1,003	\$224.87	\$0	0.000%
361510	A 3	WOODSTOCK TELEPHONE COMPANY	\$380,177	1,228	\$309.59	\$18,569	0.007%
361512	A 3	WOLVERTON TELEPHONE COMPANY	\$62,131	173	\$359.14	\$5,540	0.002%
361515	A 3	ZUMBROTA TELEPHONE COMPANY	\$369,237	1,642	\$224.87	\$0	0.000%
361654	A 3	INTERSTATE TELECOMMUNICATIONS COOP.,	\$320,665	1,426	\$224.87	\$0	0.000%
365142	C 1	NORTHWESTERN BELL-MINNESOTA	\$329,940,416	1,627,491	\$202.73	\$0	0.000%

TABLE 3.4

National Exchange Carrier Association  
Universal Service Fund  
Individual Study Areas  
Data for 1987

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1989 AT 4/8 TRANSITION	PERCENT OF TOTAL
STATE TOTAL:		MISSISSIPPI	\$309,762,462	935,867	\$330.99	\$4,793,703	1.919%
280446	C 3	BAY SPRINGS TELEPHONE COMPANY INC.	\$3,868,836	8,062	\$479.89	\$623,251	0.250%
280447	A 3	BRUCE TELEPHONE COMPANY - MS	\$566,672	2,520	\$224.87	\$0	0.000%
280448	A 2	CALHOUN CITY TEL. COMPANY INC.	\$700,470	3,115	\$224.87	\$0	0.000%
280449	A 2	MYRTLE TELEPHONE COMPANY INC.	\$120,755	537	\$224.87	\$0	0.000%
280451	C 3	DECATUR TELEPHONE CO INC- MS	\$316,842	1,409	\$224.87	\$0	0.000%
280452	C 3	DELTA TELEPHONE COMPANY INC.	\$713,357	2,886	\$247.18	\$0	0.000%
280453	A 2	ALLTEL MISSISSIPPI INC.	\$1,692,596	7,527	\$224.87	\$0	0.000%
280454	C 3	FRANKLIN TELEPHONE COMPANY INC - MS	\$2,464,484	5,941	\$414.83	\$314,336	0.126%
280455	A 3	FULTON TELEPHONE COMPANY INC.	\$1,385,199	6,160	\$224.87	\$0	0.000%
280456	A 3	GEORGETOWN TELE. CO., INC.	\$62,987	177	\$355.86	\$5,451	0.002%
280457	A 3	LAKESIDE TELEPHONE COMPANY, INC.	\$90,435	348	\$259.87	\$0	0.000%
280458	C 2	HOME TELEPHONE COMPANY- OLIVE BRANCH	\$3,762,639	6,913	\$544.28	\$701,348	0.281%
280459	C 3	HUGHES TELEPHONE COMPANY	\$1,751,127	4,951	\$353.69	\$148,442	0.059%
280460	A 3	MID-SOUTH TEL. COMPANY INC.	\$930,287	4,137	\$224.87	\$0	0.000%
280462	A 3	MOUND BAYOU TEL. & COMMUNICATIONS, IN	\$182,594	812	\$224.87	\$0	0.000%
280464	C 3	NOXAPATER TELEPHONE COMPANY	\$293,088	838	\$349.75	\$23,887	0.010%
280465	A 3	SHERWOOD TEL. CO., INC.	\$88,645	333	\$266.20	\$340	0.000%
280466	C 3	SLEDGE TEL. CO., INC.	\$97,228	412	\$235.99	\$0	0.000%
280467	A 3	SMITHVILLE TEL. CO.	\$184,169	819	\$224.87	\$0	0.000%
285184	C 1	SOUTH CENTRAL BELL-MISSISSIPPI	\$290,490,052	877,970	\$330.87	\$2,976,648	1.192%
STATE TOTAL:		MISSOURI	\$569,472,468	2,413,768	\$235.93	\$16,592,495	6.643%
421186	C 2	GTE NORTH INC. - MISSOURI	\$25,864,596	85,950	\$300.93	\$1,057,781	0.423%
421206	A 3	IAMO TELEPHONE COMPANY - MO	\$330,624	1,152	\$287.00	\$8,962	0.004%
421759	A 3	CRAW-KAN TELEPHONE COOP INC - MO	\$522,633	1,923	\$271.78	\$5,448	0.002%
421807	C 3	MOKAN DIAL, INC.- MO	\$179,181	567	\$316.02	\$9,759	0.004%
421846	A 2	CONTINENTAL SYSTEMS OF MISSOURI	\$12,924,065	34,242	\$377.43	\$1,331,489	0.533%
421859	C 3	BOURBEUSE TELEPHONE COMPANY	\$433,932	1,591	\$272.74	\$5,004	0.002%
421860	A 3	ALMA TELEPHONE COMPANY	\$87,401	323	\$270.59	\$790	0.000%
421864	A 3	CHARITON VALLEY TELEPHONE CO.	\$1,701,659	6,919	\$245.94	\$0	0.000%
421865	C 3	CITIZENS TELEPHONE CO - MISSOURI	\$824,204	3,368	\$244.72	\$0	0.000%
421873	C 3	EASTERN MISSOURI TELEPHONE CO.	\$1,003,091	2,476	\$405.13	\$121,998	0.049%
421874	A 3	ELLINGTON TELEPHONE COMPANY	\$379,677	1,225	\$309.94	\$18,663	0.007%
421876	A 3	FARBER TELEPHONE COMPANY	\$69,722	210	\$332.01	\$4,706	0.002%
421882	C 3	FIDELITY TELEPHONE COMPANY	\$2,596,933	9,754	\$266.24	\$10,073	0.004%
421885	C 2	ALLTEL MISSOURI INC.	\$7,399,504	19,765	\$374.37	\$745,875	0.299%
421886	C 3	GOODMAN TEL. CO.	\$475,035	1,355	\$350.58	\$39,046	0.016%
421887	A 3	GRANBY TEL CO - MISSOURI	\$437,147	1,944	\$224.87	\$0	0.000%
421888	C 3	GRAND RIVER MUTUAL TEL CORP - MO	\$3,938,594	12,248	\$321.57	\$232,895	0.093%
421890	A 3	GREEN HILLS TELEPHONE CORP.	\$837,916	2,711	\$309.08	\$40,545	0.016%
421893	A 3	CHOCTAW TELEPHONE COMPANY	\$95,902	398	\$240.96	\$0	0.000%
421900	A 3	KLM TEL. CO.	\$325,067	1,115	\$291.54	\$10,320	0.004%
421901	C 3	KINGDOM TELEPHONE COMPANY	\$963,785	2,445	\$394.19	\$110,440	0.044%
421904	C 3	MISSOURI TELEPHONE COMPANY	\$4,291,456	15,285	\$280.76	\$87,915	0.035%
421908	C 3	LE-RU TELEPHONE COMPANY	\$720,543	932	\$773.11	\$174,531	0.070%
421912	A 3	MCDONALD COUNTY TELEPHONE CO.	\$420,507	1,870	\$224.87	\$0	0.000%
421914	A 3	MARK TWAIN RURAL TELEPHONE CO.	\$1,117,838	3,771	\$296.43	\$40,894	0.016%
421917	C 3	MID-MISSOURI TELEPHONE CO.	\$919,553	2,991	\$307.44	\$43,138	0.017%
421920	C 3	MILLER TELEPHONE COMPANY - MO	\$195,637	870	\$224.87	\$0	0.000%
421922	C 2	CONTEL OF MISSOURI, INC.	\$61,679,375	127,167	\$485.03	\$10,076,037	4.034%
421927	A 3	NEW FLORENCE TELEPHONE CO.	\$89,491	340	\$263.21	\$16	0.000%
421928	A 3	NEW LONDON TEL. CO.	\$179,671	799	\$224.87	\$0	0.000%
421929	C 2	HOLWAY TELEPHONE COMPANY	\$288,075	613	\$469.94	\$45,102	0.018%
421931	C 3	NORTHEAST MISSOURI RURAL TEL. CO.	\$1,801,612	3,316	\$543.31	\$335,213	0.134%
421932	C 3	LATHROP TELEPHONE COMPANY	\$228,934	1,062	\$215.57	\$0	0.000%
421934	C 3	ORCHARD FARM TELEPHONE COMPANY	\$274,028	641	\$427.50	\$36,961	0.015%
421935	A 3	OREGON FARMERS MUTUAL TEL. CO.	\$224,420	998	\$224.87	\$0	0.000%
421936	A 3	PEACE VALLEY TELEPHONE CO.	\$79,729	269	\$296.39	\$2,914	0.001%
421942	A 3	ROCK PORT TEL. CO.	\$340,003	1,512	\$224.87	\$0	0.000%



TABLE 3.4

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MISSOURI (CONT.)							
421945	C 3	SENECA TEL. CO.	\$504,608	2,244	\$224.87	\$0	0.000%
421949	A 3	STEELEVILLE TEL. EXCH. INC.	\$720,708	3,205	\$224.87	\$0	0.000%
421951	C 3	STOUTLAND TELEPHONE COMPANY	\$539,770	870	\$620.43	\$113,108	0.045%
421957	C 2	UNITED TELEPHONE CO. OF MISSOURI	\$48,535,493	165,988	\$292.40	\$1,582,644	0.634%
421963	C 2	WEBSTER COUNTY TELEPHONE	\$2,007,912	4,524	\$443.84	\$288,579	0.116%
421964	C 3	WHEELING TELEPHONE COMPANY	\$117,838	317	\$371.73	\$11,649	0.005%
425213	C 1	SOUTHWESTERN BELL-MISSOURI	\$382,804,599	1,882,503	\$203.35	\$0	0.000%
STATE TOTAL: MONTANA			\$117,952,478	363,951	\$324.09	\$4,062,272	1.626%
482235	C 3	BLACKFOOT TEL. COOPERATIVE INC.	\$2,344,055	4,584	\$511.36	\$408,473	0.164%
482241	A 3	HOT SPRINGS TEL. CO.	\$87,653	325	\$269.70	\$701	0.000%
482242	C 3	INTERBEL TEL. COOPERATIVE INC.	\$373,627	886	\$421.70	\$49,161	0.020%
482244	C 3	LINCOLN TEL. CO. INC.	\$233,723	719	\$325.07	\$14,490	0.006%
482246	C 3	MID-RIVERS TEL. COOPERATIVE INC.	\$3,408,237	6,182	\$551.32	\$643,506	0.258%
482247	C 3	NEMONT TELEPHONE COOP. - MONTANA	\$1,332,924	2,277	\$585.39	\$266,112	0.107%
482248	C 3	NORTHERN TEL. COOP INC. - MT	\$1,054,341	1,324	\$796.33	\$259,467	0.104%
482249	C 2	NORTHWESTERN TELEPHONE SYSTEMS, INC.	\$8,263,134	27,548	\$299.95	\$330,257	0.132%
482250	C 3	PROJECT TEL. CO.	\$1,035,949	2,517	\$411.58	\$130,106	0.052%
482251	C 3	RANGE TEL. COOP INC. - MT	\$1,795,689	2,666	\$673.55	\$399,713	0.160%
482252	A 3	RONAN TEL. CO.	\$433,100	1,926	\$224.87	\$0	0.000%
482254	C 3	SOUTHERN MONTANA TEL. CO.	\$531,717	648	\$820.55	\$132,875	0.053%
482255	C 3	3-RIVERS TEL. COOPERATIVE INC.	\$2,888,932	8,296	\$348.23	\$231,746	0.093%
482257	C 3	TRIANGLE TEL. COOPERATIVE ASSN. INC.	\$3,205,869	8,079	\$396.82	\$372,894	0.149%
482258	C 3	VALLEY RURAL TEL. COOP. ASSN. - MT	\$612,633	730	\$839.22	\$154,801	0.062%
482416	C 2	GTE NORTHWEST INC. - MONTANA	\$1,690,540	5,959	\$283.70	\$39,968	0.016%
485104	C 1	MOUNTAIN BELL-MONTANA	\$88,660,355	289,285	\$306.48	\$628,002	0.251%
STATE TOTAL: NEBRASKA			\$151,562,853	783,036	\$193.56	\$2,176,880	0.871%
371186	C 2	GTE NORTH INC. - NEBRASKA	\$9,519,492	41,633	\$228.65	\$0	0.000%
371516	C 3	ARAPAHOE TELEPHONE COMPANY	\$436,158	1,013	\$430.56	\$59,573	0.024%
371517	C 3	ARLINGTON TELEPHONE COMPANY	\$389,470	888	\$438.59	\$54,896	0.022%
371524	C 3	BLAIR TELEPHONE COMPANY	\$1,321,859	4,982	\$265.33	\$3,671	0.001%
371525	C 3	THREE RIVER TELCO	\$526,525	1,191	\$442.09	\$75,190	0.030%
371526	A 3	CAMBRIDGE TELEPHONE COMPANY - NE	\$252,979	1,125	\$224.87	\$0	0.000%
371530	C 3	CONSOLIDATED TELCO, INC.	\$411,552	1,429	\$288.00	\$11,582	0.005%
371531	C 3	CLARKS TELEPHONE COMPANY	\$260,280	954	\$272.83	\$3,028	0.001%
371532	A 3	CONSOLIDATED TELEPHONE COMPANY - NE	\$876,370	2,739	\$319.96	\$50,649	0.020%
371534	C 3	COZAD TELEPHONE COMPANY	\$540,227	2,363	\$228.62	\$0	0.000%
371536	C 3	CURTIS TELEPHONE COMPANY	\$327,585	729	\$449.36	\$48,011	0.019%
371537	C 3	DALTON TEL. CO., INC.	\$707,075	1,246	\$567.48	\$137,251	0.055%
371540	C 3	DILLER TELEPHONE COMPANY	\$290,017	916	\$316.61	\$15,941	0.006%
371542	C 3	EASTERN NEBRASKA TELEPHONE COMPANY	\$772,730	2,334	\$331.08	\$51,595	0.021%
371544	A 3	ELSIE MUTUAL TELEPHONE COMPANY	\$66,083	192	\$344.18	\$5,072	0.002%
371545	A 3	EUSTIS TELEPHONE EXCHANGE INC.	\$100,149	444	\$225.56	\$0	0.000%
371553	C 3	GLENWOOD TELEPHONE MEMBERSHIP CORP.	\$565,773	2,516	\$224.87	\$0	0.000%
371555	A 3	HAMILTON TELEPHONE COMPANY	\$1,122,776	4,993	\$224.87	\$0	0.000%
371556	A 3	HARTINGTON TEL. CO.	\$300,876	1,338	\$224.87	\$0	0.000%
371557	C 3	HARTMAN TELEPHONE EXCHANGES INC.	\$330,829	446	\$741.77	\$78,278	0.031%
371558	C 3	HEMINGFORD COOP. TELEPHONE COMPANY	\$253,464	838	\$302.46	\$10,730	0.004%
371559	A 3	HENDERSON CO-OP TELEPHONE COMPANY	\$205,981	916	\$224.87	\$0	0.000%
371561	C 3	HERSHEY COOPERATIVE TELEPHONE CO	\$147,740	657	\$224.87	\$0	0.000%
371562	A 3	HOME TEL. CO. OF NEBRASKA	\$176,679	661	\$267.29	\$908	0.000%
371563	A 3	HOOPER TELEPHONE COMPANY	\$251,405	1,118	\$224.87	\$0	0.000%
371565	C 3	K & M TELEPHONE COMPANY INC.	\$170,761	615	\$277.66	\$2,918	0.001%
371567	C 3	KEYSTONE-ARTHUR TELEPHONE COMPANY	\$341,177	565	\$603.85	\$69,943	0.028%
371568	C 2	LINCOLN TEL. & TELE. CO.	\$38,914,654	211,496	\$184.00	\$0	0.000%
371574	C 3	NEBRASKA CENTRAL TELEPHONE COMPANY	\$1,184,479	3,400	\$348.38	\$95,169	0.038%
371576	C 3	NORTHEAST NEBRASKA TELEPHONE COMPANY	\$1,031,193	3,740	\$275.72	\$15,385	0.006%

TABLE 3.4

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NEBRASKA (CONT.)							
371577	C 3	GREAT PLAINS COMMUNICATIONS, INC.	\$8,014,760	24,622	\$325.51	\$499,714	0.200%
371580	C 3	PETERSBURG TELEPHONE COMPANY	\$257,088	434	\$592.37	\$51,857	0.021%
371581	C 3	PIERCE TELEPHONE COMPANY	\$362,041	1,610	\$224.87	\$0	0.000%
371582	A 3	PLAINVIEW TELEPHONE COMPANY INC.	\$255,677	1,137	\$224.87	\$0	0.000%
371586	C 3	ROCK COUNTY TEL. CO.	\$631,557	972	\$649.75	\$137,057	0.055%
371587	C 3	RODEO TELEPHONE, INC.	\$581,843	2,454	\$237.10	\$0	0.000%
371590	A 3	SODTOWN TEL. CO.	\$36,852	78	\$472.46	\$5,813	0.002%
371591	C 3	SOUTHEAST NEBRASKA TEL. CO.	\$1,986,341	3,778	\$525.77	\$357,067	0.143%
371592	C 3	STANTON TEL. CO., INC.	\$436,034	993	\$439.11	\$61,581	0.025%
371595	C 2	UNITED TELEPHONE CO. OF THE WEST-NE	\$5,938,002	22,854	\$259.82	\$0	0.000%
371597	C 3	WAUNETA TEL. CO.	\$591,911	637	\$929.22	\$156,578	0.063%
372455	C 3	BENKELMAN TELEPHONE COMPANY INC.	\$620,536	1,123	\$552.57	\$117,423	0.047%
375143	C 1	NORTHWESTERN BELL-NEBRASKA	\$70,053,873	424,867	\$164.88	\$0	0.000%
STATE TOTAL: NEVADA			\$128,496,727	576,852	\$222.76	\$2,783,649	1.114%
552220	A 3	FILER MUTUAL TELEPHONE COMPANY - NV	\$84,090	298	\$282.18	\$1,852	0.001%
552223	C 2	GEM STATE UTILITIES CORP-NV	\$233,471	300	\$778.24	\$56,757	0.023%
552233	C 3	RURAL TELEPHONE COMPANY - NV	\$258,750	293	\$883.11	\$66,955	0.027%
552284	A 3	BEEHIVE TELEPHONE COMPANY, INC., NV	\$17,723	29	\$611.14	\$3,669	0.001%
552302	C 2	CONTEL OF CALIFORNIA - NEVADA	\$5,891,149	16,765	\$351.40	\$488,254	0.195%
552304	C 2	C P NATIONAL CORP. - NEVADA	\$3,816,866	9,479	\$402.67	\$458,307	0.183%
552348	C 2	CENTRAL TELEPHONE COMPANY - NEVADA	\$59,335,861	345,611	\$171.68	\$0	0.000%
552349	C 3	CHURCHILL CO. TEL. & TEL. SYSTEM	\$2,465,962	7,632	\$323.11	\$148,942	0.060%
552351	C 3	LINCOLN COUNTY TELEPHONE SYSTEM INC.	\$370,763	1,459	\$254.12	\$0	0.000%
552353	C 3	MOAPA VALLEY TELEPHONE COMPANY	\$450,235	1,908	\$235.97	\$0	0.000%
552354	C 2	NEVADA TELEPHONE-TELEGRAPH COMPANY	\$628,387	2,290	\$274.40	\$8,438	0.003%
552356	C 3	RIO VIRGIN TELEPHONE COMPANY	\$208,212	853	\$244.09	\$0	0.000%
555173	C 1	NEVADA BELL	\$54,735,258	189,935	\$288.18	\$1,550,475	0.621%
STATE TOTAL: NEW HAMPSHIRE			\$151,006,018	565,838	\$266.87	\$375,023	0.150%
120038	C 3	BRETTON WOODS TEL. CO.	\$93,006	136	\$683.87	\$20,917	0.008%
120039	C 3	GRANITE STATE TEL., INC.	\$1,925,951	6,147	\$313.32	\$100,403	0.040%
120040	A 3	CHICHESTER TEL. CO.	\$212,502	945	\$224.87	\$0	0.000%
120041	C 2	CONTINENTAL TEL. CO. OF NH, INC.	\$2,597,769	8,832	\$294.13	\$89,176	0.036%
120042	A 3	DIXVILLE TEL. CO.	\$44,839	104	\$431.14	\$6,139	0.002%
120043	A 3	DUNBARTON TEL. CO.	\$193,838	862	\$224.87	\$0	0.000%
120045	C 2	KEARSARGE TEL. CO.	\$1,230,395	4,779	\$257.46	\$0	0.000%
120046	C 2	MERRIDEN TEL. CO.	\$91,689	391	\$234.50	\$0	0.000%
120047	C 3	MERRIMACK COUNTY TEL. CO.	\$1,462,485	5,370	\$272.34	\$16,192	0.006%
120049	C 3	UNION TEL. CO.	\$1,052,699	4,824	\$218.22	\$0	0.000%
120050	C 3	WILTON TEL. CO. - NH	\$752,139	2,133	\$352.62	\$63,096	0.025%
125113	C 1	NEW ENGLAND TEL.-NH	\$141,348,706	531,315	\$266.04	\$79,100	0.032%
STATE TOTAL: NEW JERSEY			\$777,592,744	4,537,814	\$171.36	\$0	0.000%
160135	C 3	WARWICK VALLEY TEL. CO.-NJ	\$736,706	6,384	\$115.40	\$0	0.000%
160139	C 2	UNITED SUSSEX TELEPHONE COMPANY	\$30,171,991	127,333	\$236.95	\$0	0.000%
165120	C 1	NEW JERSEY BELL	\$746,684,047	4,404,097	\$169.54	\$0	0.000%
STATE TOTAL: NEW MEXICO			\$170,794,527	621,997	\$274.59	\$8,870,749	3.551%
492066	C 3	DELL TELEPHONE CO-OP. INC.-NM	\$592,952	264	\$2,246.03	\$195,257	0.078%
492080	C 2	GTE SOUTHWEST INC. - NEW MEXICO	\$11,010,842	36,137	\$304.70	\$489,013	0.196%
492176	C 3	VALLEY TELEPHONE COOPERATIVE INC-NM	\$835,580	1,063	\$786.06	\$204,225	0.082%
492177	C 2	CONTEL OF THE WEST - NEW MEXICO	\$12,298,952	25,578	\$480.84	\$1,986,475	0.795%
492259	C 3	BACA VALLEY TEL. CO.	\$695,125	540	\$1,287.27	\$205,240	0.082%
492262	C 3	E.N.M.R. TEL COOP. INC.-NM	\$8,455,510	8,693	\$972.68	\$2,278,465	0.912%
492263	C 3	LA JICARITA RURAL TEL. COOP. INC.	\$755,124	1,417	\$532.90	\$137,712	0.055%



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NEW MEXICO (CONT.)							
492264	C 3	LEACO RURAL TEL. COOPERATIVE INC.	\$672,180	784	\$857.37	\$171,588	0.069%
492268	C 3	WESTERN NEW MEXICO TEL. CO., INC.	\$5,435,066	3,930	\$1,382.97	\$1,634,731	0.654%
492270	C 3	PENASCO VALLEY TEL. COOPERATIVE INC.	\$2,255,822	1,967	\$1,146.83	\$644,015	0.258%
492272	C 3	ROOSEVELT COUNTY RURAL TEL. COOP., INC	\$1,192,555	1,431	\$833.37	\$300,313	0.120%
492274	C 3	UNIVERSAL TEL CO OF SOUTHWEST- NM	\$996,981	3,121	\$319.44	\$57,185	0.023%
492275	C 2	NAVAJO COMMUNICATIONS CO INC.-NM	\$2,269,553	2,772	\$818.74	\$566,530	0.227%
495105	C 1	MOUNTAIN BELL-NEW MEXICO	\$123,328,285	534,300	\$230.82	\$0	0.000%
STATE TOTAL:			\$2,342,472,472	9,956,220	\$235.28	\$4,986,264	1.996%
NEW YORK							
150071	C 3	ARMSTRONG TELEPHONE COMPANY - NY	\$599,261	2,838	\$211.16	\$0	0.000%
150072	C 2	AU SABLE VALLEY TEL. CO. INC.	\$1,271,083	5,183	\$245.24	\$0	0.000%
150073	C 3	BERKSHIRE TEL. CORP.	\$1,047,894	4,660	\$224.87	\$0	0.000%
150076	A 3	CASSADAGA TEL. CORP.	\$255,902	1,138	\$224.87	\$0	0.000%
150077	C 3	CHAMPLAIN TEL. CO.	\$872,883	3,711	\$235.22	\$0	0.000%
150078	C 3	CHAUTAUQUA & ERIE TEL. CORP.	\$1,778,583	8,413	\$211.41	\$0	0.000%
150079	C 3	CHAZY & WESTPORT TEL. CORP.	\$618,617	2,751	\$224.87	\$0	0.000%
150081	C 3	CITIZENS TEL. CO. OF HAMMOND, NY	\$511,997	741	\$690.95	\$115,933	0.046%
150082	C 2	CLYMER TEL. CO.	\$249,210	721	\$345.64	\$19,443	0.008%
150084	C 3	TACONIC TEL. CORP.	\$4,035,953	16,837	\$239.71	\$0	0.000%
150085	C 3	CROWN POINT TELEPHONE CORPORATION	\$372,803	613	\$608.16	\$76,875	0.031%
150088	C 3	DELHI TELEPHONE COMPANY	\$812,905	3,615	\$224.87	\$0	0.000%
150089	A 3	DEPOSIT TELEPHONE CO. INC.	\$1,332,804	5,927	\$224.87	\$0	0.000%
150091	C 3	DUNKIRK AND FREDONIA TEL. CO.	\$964,791	7,720	\$124.97	\$0	0.000%
150092	C 2	EDWARDS TELEPHONE CO. INC.	\$644,256	1,421	\$453.38	\$95,727	0.038%
150093	C 3	EMPIRE TELEPHONE CORP - NEW YORK	\$1,655,230	5,534	\$299.10	\$64,815	0.026%
150095	A 3	THE FISHERS ISLAND TEL. CO.	\$191,140	850	\$224.87	\$0	0.000%
150096	C 2	CONTINENTAL TEL CO OF NY, INC.	\$57,053,500	177,269	\$321.85	\$3,386,890	1.356%
150097	C 3	GERMANTOWN TELEPHONE CO INC.	\$682,073	1,523	\$447.85	\$99,440	0.040%
150099	C 3	HANCOCK TELEPHONE COMPANY - NY	\$376,321	1,242	\$303.00	\$16,121	0.006%
150100	C 2	HIGHLAND TELEPHONE CO.	\$8,830,699	44,704	\$197.54	\$0	0.000%
150104	C 3	MARGARETVILLE TEL. CO. INC.	\$585,112	2,602	\$224.87	\$0	0.000%
150105	C 3	MIDDLEBURGH TELEPHONE CO.	\$1,446,425	3,599	\$401.90	\$172,971	0.069%
150106	C 2	ALLTEL NEW YORK INC.- FULTON	\$8,359,810	34,760	\$240.50	\$0	0.000%
150107	C 3	NEWPORT TELEPHONE CO. INC.	\$481,672	2,142	\$224.87	\$0	0.000%
150108	C 3	NICHOLVILLE TEL. CO. INC.	\$451,021	1,287	\$350.44	\$37,019	0.015%
150109	C 2	ALLTEL NEW YORK INC. - JAMESTOWN	\$7,045,505	37,867	\$186.06	\$0	0.000%
150110	C 3	OGDEN TELEPHONE COMPANY - NY	\$2,224,361	15,912	\$139.79	\$0	0.000%
150111	C 3	ONEIDA COUNTY RURAL TEL. CO.	\$657,520	2,924	\$224.87	\$0	0.000%
150112	A 3	ONTARIO TEL CO INC	\$821,450	3,653	\$224.87	\$0	0.000%
150113	C 2	ALLTEL NY INC. - RED JACKET	\$434,236	2,287	\$189.87	\$0	0.000%
150114	A 3	ORISKANY FALLS TELEPHONE CORP.	\$145,716	648	\$224.87	\$0	0.000%
150116	A 3	PATTERSONVILLE TEL CO- NEW YORK	\$248,706	1,106	\$224.87	\$0	0.000%
150118	C 3	PORT BYRON TELEPHONE COMPANY	\$563,299	2,505	\$224.87	\$0	0.000%
150119	C 2	RED HOOK TELEPHONE COMPANY	\$3,163,858	10,505	\$301.18	\$130,138	0.052%
150121	C 2	ROCHESTER TELEPHONE CORPORATION	\$83,124,786	423,326	\$196.36	\$0	0.000%
150122	C 3	SENECA-GORHAM TEL. CORP.	\$1,452,441	7,148	\$203.20	\$0	0.000%
150125	A 3	STATE TEL. CO.	\$1,466,602	6,522	\$224.87	\$0	0.000%
150128	C 2	SYLVAN LAKE TELEPHONE COMPANY	\$2,500,718	12,376	\$202.06	\$0	0.000%
150129	A 3	TOWNSHIP TELEPHONE COMPANY INC.	\$644,477	2,866	\$224.87	\$0	0.000%
150131	A 3	TRUMANSBURG HOME TELEPHONE COMPANY	\$1,031,254	4,586	\$224.87	\$0	0.000%
150133	C 3	VERNON TELEPHONE COMPANY INC.	\$494,647	2,031	\$243.55	\$0	0.000%
150135	C 3	WARWICK VALLEY TEL. CO.-NY	\$1,212,360	9,827	\$123.37	\$0	0.000%
150136	C 2	WESTERN COUNTIES TELEPHONE CO.	\$7,044,392	18,224	\$386.54	\$770,892	0.309%
155130	C 1	NEW YORK TELEPHONE	\$2,132,714,199	9,050,106	\$235.66	\$0	0.000%
STATE TOTAL:			\$762,887,345	3,007,936	\$253.62	\$6,199,421	2.482%
NORTH CAROLINA							
230468	C 3	ATLANTIC TELEPHONE MEMB. CORP.	\$3,818,261	17,947	\$212.75	\$0	0.000%
230469	C 2	BARNARDSVILLE TELEPHONE COMPANY	\$220,440	816	\$270.15	\$1,880	0.001%

TABLE 3.4

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NORTH CAROLINA (CONT.)							
230470	C 2	CAROLINA TELEPHONE & TEL. CO.	\$160,880,909	713,635	\$225.44	\$0	0.000%
230471	C 2	CENTRAL TEL. CO. - NORTH CAROLINA	\$33,144,917	179,565	\$184.58	\$0	0.000%
230473	C 3	CITIZENS TELEPHONE COMPANY - NC	\$3,710,353	12,873	\$288.23	\$105,294	0.042%
230474	C 3	THE CONCORD TELEPHONE COMPANY	\$8,939,241	71,240	\$125.48	\$0	0.000%
230476	C 2	ALLTEL CAROLINA INC.- NORTH	\$22,552,934	84,175	\$267.93	\$133,160	0.053%
230478	A 3	ELLERBE TELEPHONE COMPANY	\$347,424	1,545	\$224.87	\$0	0.000%
230479	C 2	GTE SOUTH INC. - NORTH CAROLINA	\$27,242,279	127,726	\$213.29	\$0	0.000%
230481	C 2	HEINS TELEPHONE COMPANY	\$4,605,605	21,834	\$210.94	\$0	0.000%
230483	A 3	LEXINGTON TELEPHONE COMPANY	\$4,964,230	22,076	\$224.87	\$0	0.000%
230485	A 3	MEBANE HOME TELEPHONE CO.	\$1,243,756	5,531	\$224.87	\$0	0.000%
230491	A 3	NORTH STATE TELEPHONE CO. - NC	\$17,425,851	77,493	\$224.87	\$0	0.000%
230494	A 3	PINEVILLE TELEPHONE CO.	\$253,204	1,126	\$224.87	\$0	0.000%
230495	A 3	RANDOLPH TEL. CO.	\$663,591	2,951	\$224.87	\$0	0.000%
230496	A 3	RANDOLPH TELEPHONE MEMB. CORP.	\$1,291,653	5,744	\$224.87	\$0	0.000%
230497	A 3	PIEDMONT TELEPHONE MEMB. CORP.	\$502,360	2,234	\$224.87	\$0	0.000%
230498	A 3	SALUDA MOUNTAIN TEL. CO.	\$209,354	931	\$224.87	\$0	0.000%
230499	A 2	SANDHILL TELEPHONE COMPANY	\$792,667	3,525	\$224.87	\$0	0.000%
230500	A 2	SERVICE TELEPHONE COMPANY	\$213,177	948	\$224.87	\$0	0.000%
230501	A 3	SKYLINE TEL. MEMB. CORP.	\$4,784,109	21,275	\$224.87	\$0	0.000%
230502	C 3	STAR TEL. MEMB. CORP.	\$2,920,950	11,643	\$250.88	\$0	0.000%
230503	A 3	SURRY TEL. MEMB. CORP.	\$1,986,052	8,832	\$224.87	\$0	0.000%
230505	A 3	TRI-COUNTY TEL. MEMB. CORP.-NC	\$565,098	2,513	\$224.87	\$0	0.000%
230509	C 2	CONTINENTAL TELEPHONE CO OF N.C.	\$32,449,401	73,044	\$444.24	\$4,670,319	1.870%
230510	C 3	WILKES TELEPHONE MEMB. CORP.	\$2,241,827	7,010	\$319.80	\$129,262	0.052%
230511	A 3	YADKIN VALLEY TEL. MEMB. CORP.	\$3,983,797	17,716	\$224.87	\$0	0.000%
235193	C 1	SOUTHERN BELL-NORTH CAROLINA	\$420,933,905	1,511,988	\$278.40	\$1,159,506	0.464%
STATE TOTAL: NORTH DAKOTA			\$89,407,766	336,164	\$265.96	\$1,196,422	0.479%
381447	C 2	CONTEL OF NORTH DAKOTA, INC.	\$2,933,656	9,779	\$300.00	\$117,394	0.047%
381509	A 3	WOLVERTON TEL. CO.	\$107,852	275	\$392.19	\$12,215	0.005%
381601	A 3	ABSARAKA COOP TELEPHONE CO.	\$18,190	30	\$606.33	\$3,742	0.001%
381604	C 3	BEK TELEPHONE MUTUAL AID CORP.	\$1,019,443	3,653	\$279.07	\$19,005	0.008%
381607	C 3	CONSOLIDATED TELEPHONE COOPERATIVE	\$2,447,411	4,115	\$594.75	\$495,362	0.198%
381610	C 3	DAKOTA CENTRAL RURAL TEL COOP ASSN	\$667,419	2,348	\$284.25	\$16,168	0.006%
381611	C 3	DICKEY RURAL TEL COOP.	\$1,072,835	2,730	\$392.98	\$122,075	0.049%
381614	A 3	GILBY TELEPHONE COMPANY	\$78,174	259	\$301.83	\$3,263	0.001%
381615	A 3	GRIGGS COUNTY TELEPHONE COMPANY	\$337,305	1,500	\$224.87	\$0	0.000%
381616	C 3	INTER-COMMUNITY TELEPHONE COMPANY	\$554,513	1,228	\$451.56	\$81,887	0.033%
381617	C 3	MIDSTATE TELEPHONE COMPANY	\$428,840	1,415	\$303.07	\$18,398	0.007%
381622	A 3	MOORE & LIBERTY TELEPHONE COMPANY	\$165,729	737	\$224.87	\$0	0.000%
381623	A 3	NOONAN FARMERS TELEPHONE COMPANY	\$68,197	202	\$337.61	\$4,894	0.002%
381624	A 3	NORTHERN STATES POWER CO. TEL. DEPT.	\$4,763,421	21,183	\$224.87	\$0	0.000%
381625	C 3	NORTHWEST COMMUNICATIONS COOPERATIVE	\$1,045,088	3,547	\$294.64	\$36,402	0.015%
381630	C 3	POLAR COMMUNICATIONS MUTUAL AID CORP	\$1,998,088	8,454	\$236.35	\$0	0.000%
381631	A 3	RED RIVER RURAL TEL. ASSN.	\$525,281	1,678	\$313.04	\$27,255	0.011%
381632	C 3	RESERVATION TELEPHONE COOPERATIVE	\$1,696,819	4,247	\$399.53	\$200,340	0.080%
381634	C 3	SOURIS RIVER TEL. MUTUAL AID COOP.	\$3,103,402	11,608	\$267.35	\$16,175	0.006%
381636	C 3	UNITED TELEPHONE MUTUAL AID CORP.	\$982,007	4,367	\$224.87	\$0	0.000%
381637	C 3	WEST RIVER MUTUAL AID TELEPHONE CORP	\$1,853,596	8,751	\$211.82	\$0	0.000%
381638	A 3	YORK TELEPHONE COMPANY	\$22,763	40	\$569.08	\$4,430	0.002%
382247	A 3	NEMONT TELEPHONE COOPERATIVE - ND	\$110,225	233	\$473.07	\$17,417	0.007%
385144	C 1	NORTHWESTERN BELL-NORTH DAKOTA	\$63,407,512	243,785	\$260.10	\$0	0.000%
STATE TOTAL: OHIO			\$1,025,604,468	4,976,116	\$206.11	\$380,960	0.153%
300585	A 2	ARCADIA TEL. CO.	\$154,486	687	\$224.87	\$0	0.000%
300586	A 3	THE ARTHUR MUTUAL TELEPHONE COMPANY	\$216,325	962	\$224.87	\$0	0.000%
300588	A 3	AYERSVILLE TELEPHONE COMPANY	\$221,722	986	\$224.87	\$0	0.000%
300589	A 3	BASCOM MUTUAL TELEPHONE COMPANY	\$113,110	503	\$224.87	\$0	0.000%

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OHIO (CONT.)								
300590	A 3	BENTON RIDGE TELEPHONE COMPANY	\$266,817	1,005	\$265.49	\$793	0.000%	
300591	A 3	BUCKLAND MUTUAL TELEPHONE COMPANY	\$148,189	659	\$224.87	\$0	0.000%	
300594	A 3	THE CHAMPAIGN TELEPHONE COMPANY	\$1,877,889	8,351	\$224.87	\$0	0.000%	
300597	C 3	CHILLICOTHE TELEPHONE COMPANY	\$6,913,920	23,807	\$290.42	\$211,673	0.085%	
300598	A 3	MCCLURE TELEPHONE COMPANY	\$146,615	652	\$224.87	\$0	0.000%	
300604	A 3	COLUMBUS GROVE TELEPHONE COMPANY	\$319,540	1,421	\$224.87	\$0	0.000%	
300606	A 3	CONNEAUT TELEPHONE COMPANY	\$1,272,764	5,660	\$224.87	\$0	0.000%	
300607	C 2	CONTINENTAL TELEPHONE CO OF OHIO	\$599,685	1,963	\$305.49	\$27,068	0.011%	
300609	A 3	DOYLESTOWN TELEPHONE COMPANY	\$664,266	2,954	\$224.87	\$0	0.000%	
300611	A 2	ELYRIA TELEPHONE COMPANY	\$9,023,808	40,129	\$224.87	\$0	0.000%	
300612	A 3	THE FARMERS MUTUAL TEL CO - OKOLONA,	\$94,506	384	\$246.11	\$0	0.000%	
300613	C 2	FAYETTEVILLE TELEPHONE COMPANY	\$493,592	1,139	\$433.36	\$68,179	0.027%	
300614	A 3	FORT JENNINGS TELEPHONE COMPANY	\$107,038	476	\$224.87	\$0	0.000%	
300615	C 2	GTE NORTH INC. - OHIO	\$146,018,426	614,984	\$237.43	\$0	0.000%	
300618	A 3	GERMANTOWN INDEPENDENT TEL. CO.	\$727,005	3,233	\$224.87	\$0	0.000%	
300619	A 3	THE GLANDORF TELEPHONE CO. INC.	\$147,964	658	\$224.87	\$0	0.000%	
300620	A 3	HARLAN TELEPHONE COMPANY	\$145,941	649	\$224.87	\$0	0.000%	
300625	A 3	KALIDA TELEPHONE CO. INC.	\$182,145	810	\$224.87	\$0	0.000%	
300630	C 2	CENTRAL TELEPHONE COMPANY OF OHIO	\$9,617,375	58,913	\$163.25	\$0	0.000%	
300633	A 3	MIDDLE POINT HOME TELEPHONE COMPANY	\$115,358	513	\$224.87	\$0	0.000%	
300634	A 3	MINFORD TELEPHONE COMPANY INC.	\$467,730	2,080	\$224.87	\$0	0.000%	
300637	A 2	ALLTEL OHIO INC - NEWARK	\$8,315,468	36,979	\$224.87	\$0	0.000%	
300639	A 3	THE NEW KNOXVILLE TELEPHONE COMPANY	\$205,081	912	\$224.87	\$0	0.000%	
300644	A 3	THE NOVA TELEPHONE COMPANY	\$184,628	728	\$253.61	\$0	0.000%	
300645	A 3	OAKWOOD MUTUAL TELEPHONE COMPANY	\$215,425	958	\$224.87	\$0	0.000%	
300649	C 3	ORWELL TELEPHONE COMPANY	\$1,086,572	4,832	\$224.87	\$0	0.000%	
300650	A 3	THE OTTOVILLE MUTUAL TEL. COMPANY	\$232,740	1,035	\$224.87	\$0	0.000%	
300651	A 3	PATTERSONVILLE TELEPHONE CO- OH	\$85,715	310	\$276.50	\$1,354	0.001%	
300654	A 3	RIDGEVILLE TELEPHONE COMPANY	\$108,387	482	\$224.87	\$0	0.000%	
300656	A 3	SHERWOOD MUTUAL TEL. ASSOC.	\$208,454	927	\$224.87	\$0	0.000%	
300658	A 3	SYCAMORE TELEPHONE COMPANY	\$300,627	1,336	\$225.02	\$0	0.000%	
300659	A 3	TELEPHONE SERVICE COMPANY	\$1,556,100	6,920	\$224.87	\$0	0.000%	
300661	C 2	UNITED TELEPHONE CO. OF OHIO	\$109,613,753	411,468	\$266.40	\$68,664	0.027%	
300662	A 3	VANLUE TELEPHONE COMPANY	\$105,464	469	\$224.87	\$0	0.000%	
300663	A 3	VAUGHNSVILLE TELEPHONE COMPANY	\$78,333	260	\$301.28	\$3,229	0.001%	
300664	A 3	WABASH MUTUAL TELEPHONE COMPANY	\$140,094	623	\$224.87	\$0	0.000%	
300665	C 2	ALLTEL OHIO INC - WESTERN OHIO	\$4,268,654	16,545	\$258.00	\$0	0.000%	
300666	A 2	WESTERN RESERVE TELEPHONE COMPANY	\$23,951,803	106,514	\$224.87	\$0	0.000%	
300682	C 3	C, C & S TELCO, INC.- OHIO	\$68,229	428	\$159.41	\$0	0.000%	
305062	C 2	CINCINNATI BELL-OHIO	\$103,294,579	597,859	\$172.77	\$0	0.000%	
305150	C 1	OHIO BELL TEL CO	\$591,528,146	3,012,953	\$196.33	\$0	0.000%	
STATE TOTAL:			OKLAHOMA	\$418,979,546	1,476,752	\$283.72	\$11,822,772	4.733%
431704	A 3	LAVACA TELEPHONE CO.- OK	\$242,635	1,079	\$224.87	\$0	0.000%	
431788	C 3	KANOKLA TELEPHONE ASSN. INC. - OK	\$558,983	1,281	\$436.36	\$78,120	0.031%	
431831	C 3	SOUTH CENTRAL TEL. ASSN., INC.-OK	\$151,670	397	\$382.04	\$16,124	0.006%	
431965	C 2	ALLTEL OKLAHOMA, INC.	\$5,292,313	10,481	\$504.94	\$908,712	0.364%	
431966	A 3	ATLAS TELEPHONE CO.	\$569,692	1,373	\$414.92	\$72,696	0.029%	
431968	A 3	BEGGS TELEPHONE COMPANY	\$281,312	1,251	\$224.87	\$0	0.000%	
431969	A 3	BIXBY TELEPHONE CO.	\$1,243,306	5,529	\$224.87	\$0	0.000%	
431974	C 3	CANADIAN VALLEY TELEPHONE CO.	\$416,513	818	\$509.18	\$72,222	0.029%	
431976	C 3	CARNEGIE TELEPHONE CO. INC.	\$455,079	1,497	\$303.99	\$19,912	0.008%	
431977	C 3	CENTRAL OKLAHOMA TELEPHONE CO.	\$581,625	2,038	\$285.39	\$14,789	0.006%	
431979	C 3	CHEROKEE TELEPHONE CO.	\$1,062,631	4,156	\$255.69	\$0	0.000%	
431980	C 3	CHICKASAW TELEPHONE CO.	\$2,020,730	6,928	\$291.68	\$64,435	0.026%	
431981	C 3	CHOUTEAU TELEPHONE CO.	\$1,235,655	2,642	\$467.70	\$192,168	0.077%	
431982	A 3	CIMARRON TEL. CO.	\$1,390,821	6,185	\$224.87	\$0	0.000%	
431984	C 2	OKLAHOMA COMMUNICATION SYSTEMS INC.	\$6,245,015	12,389	\$504.08	\$1,070,142	0.428%	
431985	C 3	CROSS TELEPHONE CO.	\$2,313,014	7,024	\$329.30	\$151,207	0.061%	

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OKLAHOMA (CONT.)							
431988	C 3	DOBSON TELEPHONE CO.	\$2,345,223	4,096	\$572.56	\$458,991	0.184%
431994	C 3	GRAND TELEPHONE CO. INC.	\$699,747	2,124	\$329.45	\$45,827	0.018%
431995	C 3	HINTON TELEPHONE CO.	\$1,233,031	3,149	\$391.56	\$139,134	0.056%
432006	C 3	MICLOUD TELEPHONE CO.	\$1,744,034	5,752	\$303.20	\$75,033	0.030%
432008	A 3	MEDICINE PARK TELEPHONE CO.	\$123,229	548	\$224.87	\$0	0.000%
432010	C 3	MID-AMERICA TEL., INC.	\$388,107	1,399	\$277.42	\$6,528	0.003%
432011	C 2	OKLAHOMA ALLTEL, INC.	\$4,274,253	9,524	\$448.79	\$625,200	0.250%
432013	C 3	OKLAHOMA TELEPHONE & TELEGRAPH INC.	\$864,544	1,752	\$493.46	\$144,358	0.058%
432014	C 3	OKLAHOMA WESTERN TELEPHONE CO.	\$1,783,143	2,523	\$706.76	\$409,693	0.164%
432016	C 3	PANHANDLE TELEPHONE COOPERATIVE INC.	\$2,448,168	4,218	\$580.41	\$485,079	0.194%
432017	A 3	PINE TELEPHONE CO INC- OK	\$1,094,217	4,866	\$224.87	\$0	0.000%
432018	C 3	PIONEER TEL. COOP. INC.	\$11,393,717	35,139	\$324.25	\$698,772	0.280%
432020	C 3	POTTAWATOMIE TELEPHONE CO.	\$1,714,307	1,743	\$983.54	\$463,945	0.186%
432022	A 3	SALINA-SPAVINAW TEL. CO., INC.	\$1,123,900	4,998	\$224.87	\$0	0.000%
432023	A 3	SHIDLER TEL. CO.	\$319,438	905	\$352.97	\$26,890	0.011%
432025	A 3	SOUTHWEST OKLAHOMA TEL. CO.	\$322,135	918	\$350.91	\$26,567	0.011%
432029	A 3	TERRAL TEL. CO.	\$83,391	293	\$284.61	\$2,052	0.001%
432030	C 3	TOTAH TELEPHONE CO. INC.	\$1,157,097	1,663	\$695.79	\$263,202	0.105%
432032	C 3	VALLIANT TELEPHONE COMPANY	\$729,984	1,727	\$422.69	\$96,465	0.039%
432034	C 2	WYANDOTTE TELEPHONE COMPANY	\$163,569	353	\$463.37	\$25,103	0.010%
432080	C 2	GTE SOUTHWEST INC. - OKLAHOMA	\$39,581,729	94,373	\$419.42	\$5,155,685	2.064%
432141	C 3	SANTA ROSA TELEPHONE COOP. INC.	\$211,631	644	\$328.62	\$13,721	0.005%
435215	C 1	SOUTHWESTERN BELL-OKLAHOMA	\$321,119,958	1,228,977	\$261.29	\$0	0.000%
STATE TOTAL:			\$320,234,310	1,331,865	\$240.44	\$5,600,477	2.242%
OREGON							
532226	C 3	MIDVALE TEL. EXCH. INC. - OR	\$216,446	213	\$1,016.18	\$59,303	0.024%
532304	C 2	C P NATIONAL CORP. - OREGON	\$3,891,370	9,248	\$420.78	\$509,943	0.204%
532359	C 3	BEAVER CREEK COOPERATIVE TEL. CO.	\$1,024,051	3,057	\$334.99	\$71,462	0.029%
532361	C 2	TELEPHONE UTILITIES OF OREGON INC.	\$15,569,702	33,991	\$458.05	\$2,349,362	0.941%
532362	C 3	CANBY TELEPHONE ASSOCIATION	\$1,366,242	7,130	\$191.62	\$0	0.000%
532363	C 3	CLEAR CREEK MUTUAL TELEPHONE CO.	\$912,170	2,545	\$358.42	\$80,819	0.032%
532364	C 3	COLTON TELEPHONE COMPANY	\$386,410	885	\$436.62	\$54,057	0.022%
532369	A 3	EAGLE TELEPHONE SYSTEM INC.	\$86,240	314	\$274.65	\$1,183	0.000%
532371	C 3	CASCADE UTILITIES INC.	\$1,824,120	6,722	\$271.37	\$18,149	0.007%
532373	A 3	GERVAIS TELEPHONE COMPANY	\$155,385	691	\$224.87	\$0	0.000%
532375	C 3	RTI/HALSEY TEL. CO.	\$236,307	561	\$421.22	\$31,027	0.012%
532376	C 3	HELIX TELEPHONE COMPANY	\$161,849	247	\$655.26	\$35,339	0.014%
532377	C 2	HOME TELEPHONE COMPANY	\$353,728	539	\$656.27	\$77,319	0.031%
532378	C 3	TRANS-CASCADES TELEPHONE COMPANY	\$218,767	94	\$2,327.31	\$72,388	0.029%
532383	C 3	MOLALLA TELEPHONE COMPANY	\$1,828,240	4,382	\$417.22	\$235,778	0.094%
532384	A 3	MONITOR COOPERATIVE TELEPHONE CO	\$117,157	521	\$224.87	\$0	0.000%
532385	C 3	MONROE TELEPHONE COMPANY	\$189,420	678	\$279.38	\$3,596	0.001%
532386	A 3	MT. ANGEL TELEPHONE COMPANY	\$301,101	1,339	\$224.87	\$0	0.000%
532387	C 3	NEHALEM TELEPHONE AND TELEGRAPH	\$470,709	1,666	\$282.54	\$10,546	0.004%
532388	C 3	NORTH STATE TELEPHONE COMPANY - OR	\$175,948	362	\$486.04	\$28,820	0.012%
532389	C 3	OREGON TELEPHONE CORPORATION	\$460,275	1,313	\$350.55	\$37,821	0.015%
532391	A 3	PEOPLES TELEPHONE COMPANY - OR	\$243,534	1,083	\$224.87	\$0	0.000%
532392	C 3	PINE TELEPHONE SYSTEM INC. - OR	\$330,874	608	\$544.20	\$61,665	0.025%
532393	C 3	PIONEER TELEPHONE COOPERATIVE	\$2,207,927	9,440	\$233.89	\$0	0.000%
532396	A 3	ST. PAUL COOP. TEL. ASSN.	\$98,573	427	\$230.85	\$0	0.000%
532397	C 3	SCIO MUTUAL TEL. ASSOCIATION	\$424,894	1,283	\$331.17	\$28,399	0.011%
532399	C 3	STAYTON COOP. TEL CO	\$988,079	4,394	\$224.87	\$0	0.000%
532400	C 2	UNITED TELEPHONE CO OF THE NW - OR	\$14,568,127	43,690	\$333.44	\$999,308	0.400%
532404	C 2	ASOTIN TELEPHONE COMPANY - OREGON	\$190,177	88	\$2,161.10	\$62,283	0.025%
532416	C 2	GTE NORTHWEST INC. - OREGON	\$52,677,780	243,558	\$216.28	\$0	0.000%
532449	C 2	CONTEL OF THE NORTHWEST INC.- OR	\$7,501,640	20,210	\$371.18	\$738,492	0.296%
532456	C 1	MALHEUR HOME TELEPHONE COMPANY	\$2,640,886	9,648	\$273.72	\$33,418	0.013%
535163	C 1	PACIFIC NORTHWEST BELL-OREGON	\$208,416,182	920,938	\$226.31	\$0	0.000%

TABLE 3.4

National Exchange Carrier Association  
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STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1989 AT 4/8 TRANSITION	PERCENT OF TOTAL
STATE TOTAL:		PENNSYLVANIA	\$1,058,972,181	5,999,716	\$176.50	\$892,687	0.357%
170145	A 3	THE BENTLEYVILLE TEL. CO.	\$664,941	2,957	\$224.87	\$0	0.000%
170149	A 2	BREEZEWOOD TELEPHONE COMPANY	\$715,761	3,183	\$224.87	\$0	0.000%
170150	A 2	BROOKVILLE TELEPHONE COMPANY	\$6,086,107	27,065	\$224.87	\$0	0.000%
170151	A 3	BUFFALO VALLEY TELEPHONE COMPANY	\$3,227,784	14,354	\$224.87	\$0	0.000%
170152	A 3	CANTON TELEPHONE COMPANY	\$610,972	2,717	\$224.87	\$0	0.000%
170156	A 3	CITIZENS TEL CO OF KECKSBURG	\$995,275	4,426	\$224.87	\$0	0.000%
170157	A 2	CITIZENS UTILITIES CO. OF PA	\$711,489	3,164	\$224.87	\$0	0.000%
170161	A 2	C-TEC CORPORATION	\$35,525,187	157,981	\$224.87	\$0	0.000%
170162	A 3	THE CONESTOGA TEL. AND TEL. CO.	\$7,853,360	34,924	\$224.87	\$0	0.000%
170165	A 3	DENVER AND EPHRATA TEL. & TEL. CO.	\$7,640,183	33,976	\$224.87	\$0	0.000%
170168	A 3	ENTERPRISE TELEPHONE COMPANY	\$3,460,300	15,388	\$224.87	\$0	0.000%
170169	C 2	GTE NORTH INC. - PENNSYLVANIA	\$80,979,106	385,666	\$209.97	\$0	0.000%
170170	C 2	CONTINENTAL TELEPHONE CO OF PA	\$10,683,037	43,668	\$244.64	\$0	0.000%
170171	A 3	HICKORY TELEPHONE COMPANY	\$239,936	1,067	\$224.87	\$0	0.000%
170175	A 3	IRONTON TELEPHONE COMPANY	\$541,712	2,409	\$224.87	\$0	0.000%
170176	A 2	ALLTEL PENNSYLVANIA INC.	\$28,004,410	124,536	\$224.87	\$0	0.000%
170177	C 3	LACKAWAXEN TELEPHONE COMPANY	\$760,821	2,007	\$379.08	\$79,283	0.032%
170178	A 3	LAKEWOOD RURAL TELEPHONE COMPANY	\$291,207	1,295	\$224.87	\$0	0.000%
170179	A 3	LAUREL HIGHLAND TELEPHONE COMPANY	\$987,854	4,393	\$224.87	\$0	0.000%
170183	A 2	MAHANAY & MAHANTONGO TEL. CO.	\$1,035,831	3,362	\$308.10	\$49,210	0.020%
170185	A 3	MARIANNA - SCENERY HILL TEL. CO.	\$523,947	2,330	\$224.87	\$0	0.000%
170189	C 3	ARMSTRONG TELEPHONE COMPANY - PA	\$388,761	1,290	\$301.37	\$16,060	0.006%
170190	A 2	MURRAYSVILLE TELEPHONE COMPANY	\$5,182,804	23,048	\$224.87	\$0	0.000%
170191	A 3	THE NORTH EASTERN PA. TEL. CO.	\$1,536,087	6,831	\$224.87	\$0	0.000%
170192	C 3	NORTH PENN TELEPHONE COMPANY	\$963,131	3,652	\$263.73	\$792	0.000%
170193	A 3	NORTH PITTSBURGH TEL. CO.	\$8,279,938	36,821	\$224.87	\$0	0.000%
170194	C 2	OSWAYO RIVER TELEPHONE COMPANY	\$484,828	1,477	\$328.25	\$31,292	0.013%
170195	A 3	OTTO TELEPHONE COMPANY	\$104,115	463	\$224.87	\$0	0.000%
170196	A 3	PALMERTON TELEPHONE COMPANY	\$1,814,251	8,068	\$224.87	\$0	0.000%
170197	A 3	PENNSYLVANIA TELEPHONE COMPANY	\$208,679	928	\$224.87	\$0	0.000%
170200	A 3	PYMATUNING IND. TELEPHONE COMPANY	\$383,403	1,705	\$224.87	\$0	0.000%
170201	C 2	QUAKER STATE TELEPHONE COMPANY	\$9,181,703	26,952	\$340.67	\$679,795	0.272%
170204	A 3	SOUTH CANAAN TEL. CO.	\$439,396	1,954	\$224.87	\$0	0.000%
170206	C 2	SUGAR VALLEY TELEPHONE COMPANY	\$284,428	723	\$393.40	\$32,443	0.013%
170209	C 2	UNITED TELEPHONE COMPANY OF PA	\$53,479,503	267,022	\$200.28	\$0	0.000%
170210	C 3	VENUS TELEPHONE CORPORATION	\$233,190	1,037	\$224.87	\$0	0.000%
170215	A 3	YUKON-WALTZ TELEPHONE COMPANY	\$217,449	967	\$224.87	\$0	0.000%
170277	A 3	WEST SIDE TELEPHONE COMPANY-PA	\$18,652	31	\$601.68	\$3,812	0.002%
175000	C 1	BELL OF PENNSYLVANIA	\$784,232,643	4,745,879	\$165.24	\$0	0.000%
STATE TOTAL:		PUERTO RICO	\$196,931,816	764,979	\$257.43	\$0	0.000%
633200	C 3	PUERTO RICO COMMUNICATION AUTHORITY	\$21,080,019	87,881	\$239.87	\$0	0.000%
633201	C 2	PUERTO RICO TEL. CO.	\$175,851,797	677,098	\$259.71	\$0	0.000%
STATE TOTAL:		RHODE ISLAND	\$92,687,334	492,045	\$188.37	\$0	0.000%
585114	C 1	NEW ENGLAND TEL.-RI	\$92,687,334	492,045	\$188.37	\$0	0.000%
STATE TOTAL:		SOUTH CAROLINA	\$432,968,382	1,438,707	\$300.94	\$4,361,361	1.746%
240479	C 2	GTE SOUTH INC. - SOUTH CAROLINA	\$34,292,134	123,856	\$276.87	\$555,796	0.223%
240506	C 2	UNITED TELEPHONE CO. OF THE CAROLINAS	\$15,568,138	61,318	\$253.89	\$0	0.000%
240512	C 3	BLUFFTON TEL. & APPL. CO. INC.	\$775,894	2,424	\$320.09	\$44,926	0.018%
240515	A 3	CHESNEE TELEPHONE COMPANY	\$761,410	3,386	\$224.87	\$0	0.000%
240516	A 3	CHESTER TELEPHONE COMPANY- SC	\$2,567,791	11,419	\$224.87	\$0	0.000%
240517	A 2	ALLTEL SOUTH CAROLINA INC.	\$5,269,154	23,432	\$224.87	\$0	0.000%
240520	C 3	FARMERS TEL COOP INC - SC	\$10,110,979	33,676	\$300.24	\$406,897	0.163%
240521	A 3	FORT MILL TELEPHONE COMPANY	\$1,904,649	8,470	\$224.87	\$0	0.000%
240523	C 3	HARGRAY TEL. CO. INC.	\$8,514,910	29,435	\$289.28	\$250,806	0.100%

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SOUTH CAROLINA (CONT.)							
240524	A 3	HEATH SPRINGS TEL. CO.	\$225,545	1,003	\$224.87	\$0	0.000%
240526	C 2	CONTINENTAL TELEPHONE CO OF S.C.	\$3,465,880	12,183	\$284.48	\$84,802	0.034%
240527	A 3	HOME TELEPHONE COMPANY INC - SC	\$2,800,981	12,456	\$224.87	\$0	0.000%
240528	C 3	HORRY TEL. COOP. INC.	\$8,229,135	37,127	\$221.65	\$0	0.000%
240531	A 3	LANCASTER TEL. CO.	\$3,450,405	15,344	\$224.87	\$0	0.000%
240532	A 3	LOCKHART TELEPHONE COMPANY, INC.	\$137,845	613	\$224.87	\$0	0.000%
240533	C 2	MCCLELLANVILLE TEL. CO. INC.	\$351,072	1,124	\$312.34	\$18,001	0.007%
240535	A 3	NORWAY TELEPHONE CO. INC.	\$131,774	586	\$224.87	\$0	0.000%
240536	A 3	PALMETTO RURAL TEL. COOP., INC.	\$1,921,064	8,543	\$224.87	\$0	0.000%
240538	A 3	PIEDMONT RURAL TEL. COOP.	\$1,868,670	8,310	\$224.87	\$0	0.000%
240539	C 3	POND BRANCH TEL. CO. INC.	\$1,986,488	7,184	\$276.52	\$31,421	0.013%
240540	A 3	RIDGE TEL. CO. INC.	\$278,614	1,239	\$224.87	\$0	0.000%
240541	A 3	RIDGWAY TELEPHONE COMPANY, INC.	\$252,754	1,124	\$224.87	\$0	0.000%
240542	A 3	ROCK HILL TEL. CO.	\$6,901,935	30,693	\$224.87	\$0	0.000%
240543	A 3	ST. MATTHEWS TELEPHONE COMPANY	\$758,487	3,373	\$224.87	\$0	0.000%
240544	A 2	ST. STEPHEN TELEPHONE COMPANY	\$742,521	3,302	\$224.87	\$0	0.000%
240546	A 3	SANDHILL TEL. COOP. - SC	\$2,109,056	9,379	\$224.87	\$0	0.000%
240550	A 3	WEST CAROLINA RURAL TEL. COOP.	\$1,746,565	7,767	\$224.87	\$0	0.000%
240551	C 2	WILLISTON TELEPHONE COMPANY	\$1,123,665	3,363	\$334.13	\$77,675	0.031%
245194	C 1	SOUTHERN BELL-SOUTH CAROLINA	\$314,720,867	976,578	\$322.27	\$2,891,037	1.157%
STATE TOTAL: SOUTH DAKOTA			\$81,071,894	312,694	\$259.27	\$1,064,909	0.426%
391640	A 3	ARMOUR INDEPENDENT TELEPHONE CO.	\$142,118	632	\$224.87	\$0	0.000%
391642	A 3	BALTIC TELECOM COOPERATIVE	\$242,860	1,080	\$224.87	\$0	0.000%
391643	C 2	CONTEL OF SOUTH DAKOTA, INC.	\$2,601,833	7,273	\$357.74	\$229,106	0.092%
391647	C 3	CHEYENNE RIVER SIOUX TRIBAL TEL AUTH	\$811,885	1,743	\$465.80	\$125,537	0.050%
391649	A 3	BERESFORD MUNICIPAL TEL. CO.	\$228,918	1,018	\$224.87	\$0	0.000%
391650	A 3	CITY OF BROOKINGS MUNICIPAL TEL. DEPT	\$2,032,375	9,038	\$224.87	\$0	0.000%
391652	A 3	DAKOTA COOP TELECOMMUNICATIONS CO INC	\$1,178,544	5,241	\$224.87	\$0	0.000%
391653	A 3	CITY OF FAITH MUNICIPAL TEL CO	\$86,240	314	\$274.65	\$1,183	0.000%
391654	A 3	INTERSTATE TELECOMMUNICATIONS COOP.,	\$1,508,752	6,114	\$246.77	\$0	0.000%
391657	A 3	SPLITROCK TELECOM COOPERATIVE INC.	\$567,347	2,523	\$224.87	\$0	0.000%
391659	C 3	GOLDEN WEST TELECOMM. COOP, INC.	\$4,098,451	11,867	\$345.37	\$318,774	0.128%
391660	A 3	MT. RUSHMORE TEL. CO.	\$82,538	287	\$287.59	\$2,288	0.001%
391661	A 3	HANSON COUNTY TELEPHONE COMPANY	\$113,334	504	\$224.87	\$0	0.000%
391664	A 3	JAMES VALLEY COOPERATIVE TEL CO	\$608,894	1,969	\$309.24	\$29,550	0.012%
391666	A 3	JEFFERSON TELEPHONE COMPANY - SD	\$145,595	468	\$311.10	\$7,307	0.003%
391667	A 3	KADOKA TELEPHONE COMPANY	\$95,194	498	\$191.15	\$0	0.000%
391668	C 3	KENNEBEC TELEPHONE COMPANY	\$189,241	265	\$714.12	\$43,763	0.018%
391669	C 3	MCCOOK COOPERATIVE TELEPHONE CO.	\$261,380	752	\$347.58	\$20,824	0.008%
391670	C 3	MIDSTATE TELEPHONE COMPANY	\$717,535	2,417	\$296.87	\$26,557	0.011%
391674	A 3	ROBERTS COUNTY TEL. COOP. ASSN.	\$139,297	420	\$331.66	\$9,364	0.004%
391676	C 3	SANBORN TEL. COOP.	\$628,187	2,391	\$262.73	\$0	0.000%
391677	A 3	SIOUX VALLEY TELEPHONE COMPANY	\$1,027,431	4,569	\$224.87	\$0	0.000%
391679	A 3	STOCKHOLM-STRANDBURG TEL. CO.	\$67,417	198	\$340.49	\$4,982	0.002%
391680	C 3	SULLY BUTTES TELEPHONE COOP. INC.	\$1,171,909	3,876	\$302.35	\$49,490	0.020%
391682	A 3	TRI-COUNTY MUTUAL TEL. CO.-SD	\$142,952	439	\$325.63	\$8,927	0.004%
391684	A 3	UNION TELEPHONE COMPANY	\$230,717	1,026	\$224.87	\$0	0.000%
391685	A 3	VALLEY TELECOMM. COOP. ASSN., INC.	\$571,256	1,967	\$290.42	\$17,489	0.007%
391686	A 3	VIVIAN TELEPHONE COMPANY	\$43,087	98	\$439.66	\$6,098	0.002%
391688	A 3	WESTERN TELEPHONE COMPANY	\$196,138	841	\$233.22	\$0	0.000%
391689	C 3	WEST RIVER COOPERATIVE TEL. CO.	\$843,499	1,487	\$567.25	\$163,670	0.066%
395145	C 1	NORTHWESTERN BELL-SOUTH DAKOTA	\$60,296,970	241,379	\$249.80	\$0	0.000%
STATE TOTAL: TENNESSEE			\$520,790,991	2,231,795	\$233.35	\$1,344,666	0.538%
290280	A 3	ARDMORE TELEPHONE COMPANY INC.	\$1,333,029	5,928	\$224.87	\$0	0.000%
290479	C 2	GTE SOUTH INC. - TENNESSEE	\$14,330,847	46,903	\$305.54	\$647,505	0.259%
290552	C 2	ADAMSVILLE TELEPHONE COMPANY INC.	\$1,967,674	5,376	\$366.01	\$186,021	0.074%



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TENNESSEE (CONT.)							
290553	A 3	BEN LOMAND RURAL TEL. COOP. INC.	\$4,793,104	21,315	\$224.87	\$0	0.000%
290554	A 3	BLED SOE TELEPHONE COOPERATIVE	\$1,447,263	6,436	\$224.87	\$0	0.000%
290557	A 2	CLAIBORNE TELEPHONE COMPANY INC.	\$1,165,951	5,185	\$224.87	\$0	0.000%
290559	A 2	CONCORD TEL. EXCHANGE INC.	\$2,035,523	9,052	\$224.87	\$0	0.000%
290561	A 3	CROCKETT TEL., INC.	\$817,852	3,637	\$224.87	\$0	0.000%
290562	A 3	DEKALB TELEPHONE COOP, INC.	\$2,742,065	12,194	\$224.87	\$0	0.000%
290565	A 3	HIGHLAND TEL COOP INC - TENNESSEE	\$3,505,274	15,588	\$224.87	\$0	0.000%
290566	A 3	HUMPHREY'S COUNTY TEL. COMPANY	\$269,844	1,200	\$224.87	\$0	0.000%
290567	C 2	UNITED INTER-MOUNTAIN TEL. COMPANY-TN	\$35,935,336	157,662	\$227.93	\$0	0.000%
290570	A 3	LORETTO TELEPHONE COMPANY INC.	\$970,764	4,317	\$224.87	\$0	0.000%
290571	C 3	MILLINGTON TELEPHONE COMPANY INC.	\$2,961,191	15,869	\$186.60	\$0	0.000%
290573	A 3	NORTH CENTRAL TEL COOP, INC.	\$2,907,569	12,930	\$224.87	\$0	0.000%
290574	A 3	OOLTEWAH-COLLEGE DALE TEL. CO.	\$1,010,791	4,495	\$224.87	\$0	0.000%
290575	C 2	TENNESSEE TELEPHONE COMPANY	\$9,867,725	31,532	\$312.94	\$511,140	0.205%
290576	A 3	PEOPLES TEL. CO. INC.	\$689,227	3,065	\$224.87	\$0	0.000%
290577	A 2	ALLTEL TENNESSEE INC.	\$2,932,755	13,042	\$224.87	\$0	0.000%
290578	A 2	TELLICO TEL. CO., INC.	\$1,146,387	5,098	\$224.87	\$0	0.000%
290579	C 3	TWIN LAKES TEL. COOP. CORP.	\$5,183,905	22,631	\$229.06	\$0	0.000%
290581	A 3	UNITED TEL. CO.-TN	\$1,496,285	6,654	\$224.87	\$0	0.000%
290583	A 3	WEST TENNESSEE TEL. CO., INC.	\$836,966	3,722	\$224.87	\$0	0.000%
290584	A 3	YORKVILLE TELEPHONE COOPERATIVE INC.	\$402,292	1,789	\$224.87	\$0	0.000%
295185	C 1	SOUTH CENTRAL BELL-TENNESSEE	\$420,041,372	1,816,175	\$231.28	\$0	0.000%
STATE TOTAL: TEXAS			\$2,132,515,054	7,874,717	\$270.81	\$35,746,223	14.310%
440425	C 3	CAMERON TELEPHONE COMPANY - TEXAS	\$446,939	970	\$460.76	\$68,029	0.027%
442038	A 3	BLOSSOM TELEPHONE COMPANY	\$218,574	972	\$224.87	\$0	0.000%
442039	C 3	BIG BEND TELEPHONE COMPANY INC.	\$2,582,556	2,434	\$1,061.03	\$718,601	0.288%
442040	C 3	BRAZORIA TEL. CO.	\$1,920,274	5,094	\$376.97	\$197,200	0.079%
442041	C 3	BRAZOS TELEPHONE COOPERATIVE INC.	\$1,033,660	1,134	\$911.52	\$271,217	0.109%
442043	A 3	BYERS AND PETROLIA TELEPHONE CO.	\$189,319	771	\$245.55	\$0	0.000%
442046	C 3	CAP ROCK TELEPHONE COMPANY INC.	\$1,156,865	2,285	\$506.29	\$199,268	0.080%
442052	C 3	CENTRAL TEXAS TELEPHONE CO-OP. INC.	\$3,150,190	3,465	\$909.15	\$825,639	0.331%
442057	C 3	COLEMAN COUNTY TELEPHONE CO-OP. INC.	\$509,715	1,827	\$278.99	\$9,457	0.004%
442059	C 3	COLORADO VALLEY TELEPHONE CO-OP. INC.	\$2,242,204	4,829	\$464.32	\$345,121	0.138%
442060	C 3	COMANCHE COUNTY TEL COMPANY INC.	\$1,048,794	4,664	\$224.87	\$0	0.000%
442061	A 3	COMMUNITY TELEPHONE COMPANY, INC.	\$453,749	1,459	\$311.00	\$22,731	0.009%
442065	A 3	CUMBY TELEPHONE COOPERATIVE INC.	\$125,702	559	\$224.87	\$0	0.000%
442066	C 3	DELL TELEPHONE CO-OP. INC. - TX	\$1,130,955	468	\$2,416.57	\$376,067	0.151%
442068	C 3	EASTEX TELEPHONE COOPERATIVE INC.	\$8,385,759	20,078	\$417.66	\$1,083,628	0.434%
442069	A 3	ELECTRA TELEPHONE COMPANY	\$381,829	1,698	\$224.87	\$0	0.000%
442070	C 3	ETEX TELEPHONE COOPERATIVE INC.	\$2,665,343	9,020	\$295.49	\$95,061	0.038%
442071	C 3	FIVE AREA TELEPHONE CO-OP. INC.	\$1,445,757	1,465	\$986.86	\$391,772	0.157%
442072	C 3	FORT BEND TELEPHONE COMPANY	\$5,996,653	16,546	\$362.42	\$550,253	0.220%
442076	C 3	GANADO TELEPHONE COMPANY INC.	\$448,991	1,246	\$360.35	\$40,470	0.016%
442080	C 2	GTE SOUTHWEST INC. - TEXAS	\$350,228,074	1,006,780	\$347.87	\$4,269,125	1.709%
442083	C 3	GUADALUPE VALLEY TEL CO-OP. INC.	\$5,292,088	14,649	\$361.26	\$480,794	0.192%
442084	C 2	UNITED TELEPHONE CO. OF TEXAS INC.	\$39,607,495	95,840	\$413.27	\$5,014,798	2.008%
442086	C 3	HILL COUNTRY TELEPHONE CO-OP. INC.	\$4,875,767	8,904	\$547.59	\$914,393	0.366%
442090	A 3	ALENCO COMMUNICATIONS, INC.	\$49,122	89	\$551.93	\$9,285	0.004%
442093	C 3	INDUSTRY TELEPHONE COMPANY	\$1,151,249	1,558	\$738.93	\$271,789	0.109%
442097	C 3	KERRVILLE TELEPHONE COMPANY	\$2,775,284	13,892	\$199.78	\$0	0.000%
442099	A 3	KNIPPA TELEPHONE COMPANY	\$48,197	116	\$415.49	\$6,166	0.002%
442101	C 3	LAKE DALLAS TELEPHONE COMPANY, INC.	\$1,437,254	4,239	\$339.05	\$104,686	0.042%
442103	C 3	LA WARD TELEPHONE EXCHANGE INC.	\$526,416	846	\$622.24	\$110,562	0.044%
442104	C 3	LAKE LIVINGSTON TEL. CO.	\$481,790	922	\$522.55	\$86,027	0.034%
442105	A 3	LIPAN TELEPHONE COMPANY	\$192,574	804	\$239.52	\$0	0.000%
442107	A 3	LIVINGSTON TELEPHONE COMPANY	\$986,730	4,388	\$224.87	\$0	0.000%
442109	C 3	LUFKIN-CONROE TELEPHONE EXCHANGE, INC	\$16,809,180	58,266	\$288.49	\$481,507	0.193%
442112	C 3	MID-PLAINS RURAL TEL. CO-OP. INC.	\$1,217,219	2,021	\$602.29	\$249,002	0.100%

TABLE 3.4

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----- TEXAS (CONT.) -----							
442114	C 2	CENTRAL TELEPHONE COMPANY OF TEXAS	\$36,202,592	117,259	\$308.74	\$1,740,732	0.697%
442116	C 3	MUENSTER TELEPHONE CORP. OF TEXAS	\$465,658	1,640	\$283.94	\$11,128	0.004%
442117	C 2	MUSTANG TELEPHONE COMPANY	\$916,650	2,224	\$412.16	\$115,444	0.046%
442121	C 2	ALLTEL TEXAS INC.	\$857,484	2,659	\$322.48	\$51,347	0.021%
442129	C 3	PEEPLES TELEPHONE COMPANY	\$657,565	895	\$734.71	\$154,714	0.062%
442130	C 3	PEOPLES TELEPHONE COOPERATIVE - TX	\$2,180,193	6,826	\$319.40	\$124,982	0.050%
442131	C 3	POKA-LAMBRO RURAL TEL. CO-OP. INC.	\$2,064,707	3,246	\$636.08	\$441,061	0.177%
442134	C 3	RIVIERA TELEPHONE COMPANY INC.	\$473,253	815	\$580.68	\$93,809	0.038%
442135	C 3	SOUTHWEST TEXAS TELEPHONE COMPANY	\$1,755,927	2,012	\$872.73	\$451,940	0.181%
442136	C 2	ROMAIN TELEPHONE COMPANY	\$641,720	845	\$759.43	\$153,904	0.062%
442140	A 3	SAN MARCOS TEL. CO., INC.	\$4,372,597	19,445	\$224.87	\$0	0.000%
442141	C 3	SANTA ROSA TEL. COOP., INC.	\$581,847	1,553	\$374.66	\$58,775	0.024%
442143	C 3	SOUTH PLAINS TEL. COOP., INC.	\$1,144,484	3,519	\$325.23	\$71,099	0.028%
442147	C 3	SUGAR LAND TEL. CO.	\$5,349,268	23,415	\$228.45	\$0	0.000%
442148	C 3	SWEENEY-OLD OCEAN	\$990,188	2,549	\$388.46	\$109,660	0.044%
442150	A 3	TATUM TEL. CO.	\$157,184	699	\$224.87	\$0	0.000%
442151	C 3	TAYLOR TEL. CO-OP., INC.	\$1,729,919	5,244	\$329.89	\$113,894	0.046%
442153	C 2	TEXAS-MIDLAND TELEPHONE COMPANY	\$5,465,523	9,119	\$599.36	\$1,113,507	0.446%
442154	C 2	CONTINENTAL TELEPHONE CO OF TEXAS	\$71,288,084	149,497	\$476.85	\$11,386,766	4.558%
442155	A 3	TRI-COUNTY TEL. CO. INC.-TX	\$369,681	766	\$482.61	\$59,999	0.024%
442156	C 2	TRINITY VALLEY TELEPHONE COMPANY INC.	\$2,817,242	5,191	\$542.72	\$523,608	0.210%
442159	C 3	VALLEY TELEPHONE CO-OP. INC. - TX	\$3,785,371	4,156	\$910.82	\$992,893	0.397%
442160	C 3	VALLEY VIEW TELEPHONE COMPANY	\$333,929	855	\$390.56	\$37,456	0.015%
442163	C 3	WATERWOOD COMMUNICATIONS INC.	\$193,041	378	\$510.69	\$33,588	0.013%
442166	C 3	WEST TEXAS RURAL TEL. CO-OP. INC.	\$1,116,804	1,703	\$655.79	\$243,988	0.098%
442168	C 3	WES-TEX TELEPHONE CO-OP.	\$1,421,018	3,073	\$462.42	\$217,433	0.087%
442170	C 3	XIT RURAL TELEPHONE CO-OP. INC.	\$891,389	986	\$904.05	\$233,058	0.093%
442262	C 3	E.N.M.R. TEL. COOP., INC.-TX	\$250,905	734	\$341.83	\$18,790	0.008%
445216	C 1	SOUTHWESTERN BELL-TEXAS	\$1,522,828,564	6,209,116	\$245.26	\$0	0.000%
STATE TOTAL: UTAH			\$133,251,798	686,194	\$194.19	\$897,636	0.359%
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502177	C 2	CONTEL OF THE WEST - UTAH	\$5,168,032	13,593	\$380.20	\$542,679	0.217%
502275	C 2	NAVAJO COMMUNICATIONS CO. INC. - UT	\$250,406	272	\$920.61	\$65,981	0.026%
502277	C 3	CENTRAL UTAH TEL. INC.	\$209,964	737	\$284.89	\$5,228	0.002%
502278	C 3	EMERY COUNTY FARMERS UNION TEL ASSN	\$480,761	2,441	\$196.95	\$0	0.000%
502279	A 3	GUNNISON TEL. CO.	\$215,875	960	\$224.87	\$0	0.000%
502280	C 3	KAMAS-WOODLAND TEL. CO.	\$599,756	1,498	\$400.37	\$71,136	0.028%
502282	A 3	MANTI TELEPHONE COMPANY	\$199,460	887	\$224.87	\$0	0.000%
502283	C 3	SKYLINE TELECOM	\$121,205	539	\$224.87	\$0	0.000%
502284	A 3	BEEHIVE TELEPHONE CO., INC., UT	\$241,061	450	\$535.69	\$44,204	0.018%
502286	C 3	SOUTH CENTRAL UTAH TEL. ASSN. INC.	\$587,194	2,544	\$230.82	\$0	0.000%
502287	C 3	UINTAH BASIN TEL. ASSN. INC.	\$1,128,773	2,507	\$450.25	\$165,944	0.066%
502288	C 3	UTAH-WYOMING TELECOM - UT	\$120,959	431	\$280.65	\$2,464	0.001%
505107	C 1	MOUNTAIN BELL-UTAH	\$123,928,352	659,335	\$187.96	\$0	0.000%
STATE TOTAL: VERMONT			\$83,174,391	280,290	\$296.74	\$1,554,402	0.622%
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140053	A 3	FRANKLIN TEL. CO. - VT	\$128,626	572	\$224.87	\$0	0.000%
140058	C 2	LUDLOW TEL. CO.	\$650,774	3,314	\$196.37	\$0	0.000%
140061	C 2	NORTHFIELD TEL. CO.	\$410,900	2,438	\$168.54	\$0	0.000%
140062	C 2	PERKINSVILLE TEL. CO.	\$170,840	683	\$250.13	\$0	0.000%
140064	A 3	SHOREHAM TEL. CO.	\$534,938	2,021	\$264.69	\$1,069	0.000%
140068	C 3	TOPSHAM TEL. CO., INC.	\$261,582	934	\$280.07	\$5,163	0.002%
140069	C 3	WAITSFIELD/FAYSTON TEL. CO.	\$1,577,232	4,166	\$378.60	\$163,821	0.066%
140070	C 2	CONTINENTAL TEL CO OF VT, INC.	\$10,965,165	29,614	\$370.27	\$1,072,017	0.429%
145115	C 1	NEW ENGLAND TEL.-VT	\$68,474,334	236,548	\$289.47	\$312,332	0.125%



TABLE 3.4

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STATE TOTAL:		VIRGIN ISLANDS	\$18,987,892	41,038	\$462.69	\$2,907,837	1.164%
643300	C 3	VIRGIN ISLANDS TELEPHONE CORPORATION	\$18,987,892	41,038	\$462.69	\$2,907,837	1.164%
STATE TOTAL:		VIRGINIA	\$708,905,925	2,966,686	\$238.96	\$1,810,358	0.725%
190217	C 2	AMELIA TEL. CORP.	\$985,535	2,080	\$473.81	\$156,057	0.062%
190219	A 3	BUGGS ISLAND TELEPHONE COOP.	\$462,558	2,057	\$224.87	\$0	0.000%
190220	A 3	BURKE'S GARDEN TELEPHONE COMPANY INC.	\$40,361	89	\$453.49	\$5,999	0.002%
190225	A 3	CITIZENS TELEPHONE COOP - VIRGINIA	\$1,043,172	4,639	\$224.87	\$0	0.000%
190226	A 3	CLIFTON FORGE WAYNESBORO TEL CO	\$5,559,236	24,722	\$224.87	\$0	0.000%
190233	C 2	CONTEL OF VIRGINIA, INC.	\$84,483,145	293,209	\$288.13	\$367,501	0.147%
190236	A 3	NORTH RIVER TELEPHONE COOPERATIVE	\$153,811	684	\$224.87	\$0	0.000%
190237	A 3	HIGHLAND TEL COOP - VIRGINIA	\$257,672	934	\$275.88	\$3,891	0.002%
190238	A 3	MOUNTAIN GROVE-WILLIAMSVILLE TEL. CO.	\$369,186	1,164	\$317.17	\$20,469	0.008%
190239	A 3	NEW HOPE TELEPHONE COMPANY - VA	\$147,740	657	\$224.87	\$0	0.000%
190243	A 3	PEMBROKE TELEPHONE COOPERATIVE	\$341,578	1,519	\$224.87	\$0	0.000%
190244	A 3	PEOPLES MUTUAL TEL CO - VA	\$1,341,125	5,964	\$224.87	\$0	0.000%
190248	A 3	SCOTT COUNTY TEL. COOP. INC.	\$1,077,127	4,790	\$224.87	\$0	0.000%
190249	C 3	ROANOKE & BOTETOURT TEL. CO.	\$1,871,362	5,851	\$319.84	\$107,967	0.043%
190250	A 3	SHENANDOAH TEL. CO.	\$3,355,060	14,920	\$224.87	\$0	0.000%
190253	A 3	VIRGINIA HOT SPRINGS TEL. CO.	\$373,284	1,660	\$224.87	\$0	0.000%
190254	C 2	CENTRAL TELEPHONE COMPANY OF VA	\$48,223,600	194,053	\$248.51	\$0	0.000%
190479	C 2	GTE SOUTH INC. - VIRGINIA	\$9,195,171	28,237	\$325.64	\$574,275	0.230%
190567	C 2	UNITED INTER-MOUNTAIN TELEPHONE CO-VA	\$19,866,773	68,806	\$288.74	\$574,199	0.230%
195040	C 1	C & P TELEPHONE COMPANY OF VIRGINIA	\$529,758,429	2,310,651	\$229.27	\$0	0.000%
STATE TOTAL:		WASHINGTON	\$503,758,931	2,353,104	\$214.08	\$5,471,651	2.190%
522400	C 2	UNITED TELEPHONE CO OF THE NW - WA	\$15,837,275	46,425	\$341.14	\$1,178,043	0.472%
522404	C 2	ASOTIN TELEPHONE COMPANY - WA	\$407,304	796	\$511.69	\$71,029	0.028%
522408	C 2	TELEPHONE UTILITIES OF WA INC.	\$21,630,847	68,039	\$317.92	\$1,213,046	0.486%
522410	C 3	COWICHE TELEPHONE CO. INC.	\$345,853	1,389	\$248.99	\$0	0.000%
522412	C 3	ELLENSBURG TELEPHONE COMPANY	\$3,042,424	13,523	\$224.98	\$0	0.000%
522416	C 2	GTE NORTHWEST INC. - WASHINGTON	\$102,504,370	455,050	\$225.26	\$0	0.000%
522417	C 3	HAT ISLAND TELEPHONE COMPANY	\$18,961	47	\$403.43	\$2,286	0.001%
522419	C 3	HOOD CANAL TELEPHONE COMPANY	\$234,690	674	\$348.20	\$18,823	0.008%
522423	C 3	INLAND TELEPHONE COMPANY - WA	\$727,702	1,379	\$527.70	\$131,330	0.053%
522426	C 3	KALAMA TELEPHONE COMPANY	\$517,546	1,483	\$348.99	\$41,850	0.017%
522427	C 3	LEWIS RIVER TELEPHONE COMPANY INC.	\$727,605	2,143	\$339.53	\$53,258	0.021%
522430	A 3	MCDANIEL TELEPHONE COMPANY	\$422,980	1,881	\$224.87	\$0	0.000%
522431	C 3	MASHELL TELEPHONE COMPANY INC.	\$720,876	1,732	\$416.21	\$92,536	0.037%
522436	C 2	PENINSULA TELECOMMUNICATIONS, INC.	\$1,051,164	3,991	\$263.38	\$412	0.000%
522437	C 3	PIONEER TELEPHONE COMPANY	\$482,540	706	\$683.48	\$108,479	0.043%
522442	C 3	ST. JOHN TELEPHONE CO.	\$179,074	551	\$325.00	\$11,091	0.004%
522446	C 3	TENINO TEL. CO.	\$692,062	1,961	\$352.91	\$58,221	0.023%
522447	C 3	TOLEDO TELEPHONE COMPANY INC.	\$532,528	1,278	\$416.69	\$68,510	0.027%
522449	C 2	CONTEL OF THE NORTHWEST INC.- WA	\$18,366,493	44,715	\$410.75	\$2,297,443	0.920%
522451	C 3	WESTERN WAHAKIAKUM COUNTY TEL COMPANY	\$270,730	836	\$323.84	\$16,513	0.007%
522452	C 3	WHIDBEY TEL. CO.	\$1,734,552	5,663	\$306.30	\$79,578	0.032%
522453	C 3	YELM TELEPHONE COMPANY	\$1,307,817	4,630	\$282.47	\$29,203	0.012%
525161	C 1	PACIFIC NORTHWEST BELL-WASHINGTON	\$332,003,538	1,694,212	\$195.96	\$0	0.000%
STATE TOTAL:		WEST VIRGINIA	\$266,110,357	753,516	\$353.16	\$6,433,130	2.575%
200256	A 3	ARMSTRONG TELEPHONE COMPANY - WV	\$521,249	2,318	\$224.87	\$0	0.000%
200257	A 3	SPRUCE KNOB SENECA ROCKS TEL., INC.	\$171,576	763	\$224.87	\$0	0.000%
200259	C 3	HARDY TELEPHONE COMPANY	\$1,058,694	1,786	\$592.77	\$213,672	0.086%
200267	A 3	ARMSTRONG TELEPHONE COMPANY	\$809,982	3,602	\$224.87	\$0	0.000%
200270	C 2	MOUNTAIN STATE TELEPHONE CO.	\$6,431,339	14,719	\$436.94	\$900,817	0.361%
200276	A 3	WAR TELEPHONE COMPANY	\$364,289	1,620	\$224.87	\$0	0.000%
200277	A 3	WEST SIDE TELEPHONE COMPANY - WV	\$375,083	1,668	\$224.87	\$0	0.000%

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WEST VIRGINIA (CONT.)							
200278	C 2	CONTINENTAL TEL CO OF WEST VIRGINIA	\$9,109,493	21,727	\$419.27	\$1,185,744	0.475%
200479	C 2	GTE SOUTH INC. - WEST VIRGINIA	\$19,976,800	61,470	\$324.98	\$1,236,972	0.495%
205050	C 1	C & P TELEPHONE COMPANY OF W VA	\$227,291,852	643,843	\$353.02	\$2,895,925	1.159%
STATE TOTAL:			\$492,402,012	2,306,640	\$213.47	\$1,122,330	0.449%
WISCONSIN							
330841	C 2	CENCOM OF WISCONSIN INC.	\$5,592,332	20,556	\$272.05	\$60,043	0.024%
330842	C 3	AMERY TELEPHONE COMPANY	\$978,185	4,350	\$224.87	\$0	0.000%
330843	C 3	AMHERST TELEPHONE COMPANY	\$750,391	3,337	\$224.87	\$0	0.000%
330844	C 2	BADGER STATE TELEPHONE CO INC.	\$1,014,875	3,712	\$273.40	\$12,471	0.005%
330846	A 3	BALDWIN TELCOM. INC.	\$590,509	2,626	\$224.87	\$0	0.000%
330847	A 3	BELMONT TELEPHONE COMPANY	\$154,935	689	\$224.87	\$0	0.000%
330848	A 3	BERGEN TELEPHONE COMPANY	\$78,848	172	\$458.42	\$11,912	0.005%
330849	A 2	BLACK EARTH TELEPHONE COMPANY	\$240,836	1,071	\$224.87	\$0	0.000%
330850	A 3	BLOOMER TELEPHONE COMPANY	\$523,497	2,328	\$224.87	\$0	0.000%
330851	C 2	BONDUEL TELEPHONE COMPANY	\$364,418	1,389	\$262.36	\$0	0.000%
330855	C 3	BRUCE TELEPHONE COMPANY, INC.	\$287,159	1,277	\$224.87	\$0	0.000%
330856	C 2	BURLINGTON BRIGHTON & WHEATLAND TEL	\$509,471	2,653	\$192.04	\$0	0.000%
330857	C 3	CASCO TELEPHONE COMPANY	\$222,621	990	\$224.87	\$0	0.000%
330858	C 3	LAKESHORE TELEPHONE COMPANY	\$344,726	1,533	\$224.87	\$0	0.000%
330859	C 2	CENTRAL STATE TELEPHONE COMPANY	\$2,199,896	6,801	\$323.47	\$133,520	0.053%
330860	C 3	CHEQUAMEGON TELEPHONE COOP INC.	\$1,407,439	5,444	\$258.53	\$0	0.000%
330861	C 3	CHIBARDUN TELEPHONE COOP INC.	\$983,357	4,373	\$224.87	\$0	0.000%
330863	A 3	CITIZENS TELEPHONE COOP INC - WI	\$362,490	1,612	\$224.87	\$0	0.000%
330865	A 3	CLEAR LAKE TELEPHONE CO INC - WI	\$261,749	1,164	\$224.87	\$0	0.000%
330866	A 3	COCHRANE COOPERATIVE TELEPHONE CO	\$225,994	1,005	\$224.87	\$0	0.000%
330868	A 3	COON VALLEY FARMERS TELEPHONE CO., INC	\$420,057	1,868	\$224.87	\$0	0.000%
330870	C 3	CRANDON TELEPHONE COMPANY	\$758,414	2,189	\$346.47	\$59,704	0.024%
330872	A 3	CUBA CITY TEL. EXCH. CO.	\$318,191	1,415	\$224.87	\$0	0.000%
330875	A 3	DICKEYVILLE TELEPHONE CO.	\$201,708	897	\$224.87	\$0	0.000%
330876	C 2	DODGE COUNTY TELEPHONE COMPANY	\$197,271	850	\$232.08	\$0	0.000%
330877	A 3	FAIRWATER-BRANDON-ALTO TEL. CO.	\$251,854	1,120	\$224.87	\$0	0.000%
330879	A 3	FARMERS IND. TELEPHONE COMPANY - WI	\$484,145	2,153	\$224.87	\$0	0.000%
330880	A 3	FARMERS TELEPHONE COMPANY - WI	\$1,138,067	5,061	\$224.87	\$0	0.000%
330881	A 3	MID-PLAINS TELEPHONE INC.	\$3,246,898	14,439	\$224.87	\$0	0.000%
330882	C 2	FENNIMORE TELEPHONE COMPANY	\$330,305	1,508	\$219.04	\$0	0.000%
330883	C 3	FOOTVILLE TELEPHONE COMPANY	\$195,283	809	\$241.39	\$0	0.000%
330884	A 3	FORESTVILLE TEL. CO. INC.	\$389,925	1,734	\$224.87	\$0	0.000%
330886	C 2	GTE NORTH INC. - WISCONSIN	\$97,374,033	323,031	\$301.44	\$619,856	0.248%
330888	C 2	GREENWOOD TELEPHONE COMPANY	\$323,726	1,285	\$251.93	\$0	0.000%
330889	C 3	HAGER CITY TELEPHONE COMPANY	\$356,419	1,585	\$224.87	\$0	0.000%
330891	C 3	HEADWATERS TEL. CO.	\$997,286	3,320	\$300.39	\$40,276	0.016%
330892	C 3	HILLSBORO TELEPHONE COMPANY INC.	\$308,522	1,372	\$224.87	\$0	0.000%
330895	C 2	CENTURY TELEPHONE OF WISCONSIN INC.	\$7,433,432	40,703	\$182.63	\$0	0.000%
330896	A 3	LAKEFIELD TELEPHONE COMPANY	\$280,413	1,247	\$224.87	\$0	0.000%
330898	C 3	LARSEN-READFIELD TEL. CO.	\$338,300	1,932	\$175.10	\$0	0.000%
330899	A 3	LA VALLE TELEPHONE COOPERATIVE	\$339,329	1,509	\$224.87	\$0	0.000%
330900	C 3	LEMONWEIR VALLEY TEL. CO.	\$536,540	2,386	\$224.87	\$0	0.000%
330902	A 3	LUCK TELEPHONE COMPANY	\$402,742	1,791	\$224.87	\$0	0.000%
330904	A 3	MADLINE ISLAND TEL. CO.	\$77,054	252	\$305.77	\$3,498	0.001%
330905	C 3	MANAWA TELEPHONE COMPANY	\$409,263	1,820	\$224.87	\$0	0.000%
330907	A 3	MAPLE TELEPHONE COOP INC.	\$82,538	287	\$287.59	\$2,288	0.001%
330908	C 3	MARQUETTE-ADAMS TEL. COOP. INC.	\$500,794	2,510	\$199.52	\$0	0.000%
330909	C 2	MIDWAY TELEPHONE COMPANY	\$1,369,023	5,823	\$235.11	\$0	0.000%
330910	C 3	MILLTOWN MUTUAL TELEPHONE COMPANY	\$414,660	1,844	\$224.87	\$0	0.000%
330912	A 3	MONDOVI TELEPHONE COMPANY	\$463,907	2,063	\$224.87	\$0	0.000%
330913	C 3	MONROE COUNTY TELEPHONE COMPANY	\$1,711,124	8,368	\$204.48	\$0	0.000%
330914	C 2	MOSEL & CENTERVILLE TELEPHONE CO	\$679,289	2,733	\$248.55	\$0	0.000%
330915	A 3	MOSINEE TEL. CO.	\$760,960	3,384	\$224.87	\$0	0.000%
330916	C 3	MOUNT HOREB TELEPHONE COMPANY	\$764,749	2,631	\$290.67	\$23,606	0.009%

TABLE 3.4

National Exchange Carrier Association  
Universal Service Fund  
Individual Study Areas  
Data for 1987

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1989 AT 4/8 TRANSITION	PERCENT OF TOTAL
----- WISCONSIN (CONT.) -----							
330917	C 2	MOUNT VERNON TELEPHONE COMPANY	\$1,016,146	4,865	\$208.87	\$0	0.000%
330918	A 3	NELSON TELEPHONE COOPERATIVE	\$713,513	3,173	\$224.87	\$0	0.000%
330920	C 3	NIAGARA TELEPHONE COMPANY	\$678,658	3,018	\$224.87	\$0	0.000%
330922	C 3	NORTH-WEST TELEPHONE COMPANY	\$12,435,108	50,816	\$244.71	\$0	0.000%
330924	A 3	NOVY'S TELEPHONE COMPANY	\$116,932	520	\$224.87	\$0	0.000%
330925	C 3	BAYLAND TELEPHONE INC.	\$281,762	1,253	\$224.87	\$0	0.000%
330930	A 2	PEOPLES TELEPHONE COMPANY(MT HOPE)	\$388,034	1,637	\$237.04	\$0	0.000%
330931	C 3	PEOPLES TELEPHONE CO OF RANDOLPH	\$1,479,402	5,256	\$281.47	\$31,444	0.013%
330934	C 3	PLATTEVILLE TELEPHONE COMPANY	\$1,230,118	7,264	\$169.34	\$0	0.000%
330936	C 3	INDIANHEAD TEL. CO.	\$656,901	1,590	\$413.15	\$83,125	0.033%
330937	C 3	PRICE COUNTY TELEPHONE COMPANY	\$869,875	3,218	\$270.32	\$7,590	0.003%
330938	A 3	NORTHEAST TEL. CO.	\$995,499	4,427	\$224.87	\$0	0.000%
330940	C 3	RHINELANDER TEL. CO.	\$1,731,683	8,612	\$201.08	\$0	0.000%
330941	C 3	RIB LAKE TELEPHONE COMPANY	\$237,463	1,056	\$224.87	\$0	0.000%
330942	A 3	RICHLAND-GRANT TEL. COOP. INC.	\$497,149	2,180	\$228.05	\$0	0.000%
330943	C 2	ROCK RIVER TELEPHONE COMPANY	\$333,036	1,353	\$246.15	\$0	0.000%
330944	A 3	ST. CROIX TEL. CO.	\$1,136,268	5,053	\$224.87	\$0	0.000%
330945	C 2	SCANDINAVIA TELEPHONE COMPANY	\$418,098	1,831	\$228.34	\$0	0.000%
330946	A 3	SHARON TEL. CO.	\$202,158	899	\$224.87	\$0	0.000%
330948	C 3	SHELL LAKE TEL. CO.	\$404,541	1,799	\$224.87	\$0	0.000%
330949	C 3	SIREN TELEPHONE CO.,INC.	\$387,676	1,724	\$224.87	\$0	0.000%
330950	C 3	OLON SPRINGS TEL. CO.	\$3,223,024	13,375	\$240.97	\$0	0.000%
330951	A 3	SOMERSET TEL. CO.,INC.	\$264,222	1,175	\$224.87	\$0	0.000%
330952	C 3	SOUTHEAST TEL. CO. OF WIS.,INC.	\$1,322,678	5,353	\$247.09	\$0	0.000%
330953	A 3	SPRING VALLEY TEL. CO.,INC.	\$180,795	804	\$224.87	\$0	0.000%
330954	C 2	STOCKBRIDGE & SHERWOOD TEL. CO.	\$619,730	2,234	\$277.41	\$10,417	0.004%
330955	A 3	STATE LONG DISTANCE TEL. CO.	\$1,246,679	5,544	\$224.87	\$0	0.000%
330956	C 3	UNIVERSAL TEL. CO. OF NORTHERN WIS.IN	\$2,630,160	9,734	\$270.20	\$22,580	0.009%
330957	A 3	SULLIVAN TEL. CO.	\$352,146	1,566	\$224.87	\$0	0.000%
330958	A 3	TENNEY TEL. CO.	\$202,608	901	\$224.87	\$0	0.000%
330959	C 3	THORP TELEPHONE COMPANY	\$422,980	1,881	\$224.87	\$0	0.000%
330960	A 3	TRI-COUNTY TEL. COOP. INC.-WI	\$719,809	3,201	\$224.87	\$0	0.000%
330961	C 3	TURTLE LAKE TELEPHONE CO INC.	\$252,979	1,125	\$224.87	\$0	0.000%
330962	A 3	UNION TELEPHONE COMPANY	\$706,542	3,142	\$224.87	\$0	0.000%
330963	C 3	UTELCO INC.	\$1,794,385	12,137	\$147.84	\$0	0.000%
330964	C 3	URBAN TELEPHONE CORPORATION	\$3,093,723	16,325	\$189.51	\$0	0.000%
330965	C 2	VALDERS TELEPHONE COMPANY	\$381,600	1,796	\$212.47	\$0	0.000%
330966	A 3	VERNON TELEPHONE COOP	\$1,168,874	5,198	\$224.87	\$0	0.000%
330967	C 3	VIROQUA TELEPHONE COMPANY	\$659,993	2,935	\$224.87	\$0	0.000%
330968	A 2	WAUNAKEE TELEPHONE COMPANY	\$771,304	3,430	\$224.87	\$0	0.000%
330970	A 3	WAYSIDE TELEPHONE COMPANY	\$268,270	1,193	\$224.87	\$0	0.000%
330971	A 3	WEST WISCONSIN TELCOM COOP. INC.	\$728,129	3,238	\$224.87	\$0	0.000%
330973	C 3	WITTENBERG TELEPHONE COMPANY	\$384,977	1,712	\$224.87	\$0	0.000%
330974	C 3	WOOD COUNTY TELEPHONE COMPANY	\$3,024,776	19,842	\$152.44	\$0	0.000%
335220	C 1	WISCONSIN BELL	\$300,821,660	1,564,254	\$192.31	\$0	0.000%
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STATE TOTAL:		WYOMING	\$87,868,141	225,386	\$389.86	\$2,395,753	0.959%
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511595	C 2	UNITED TELEPHONE CO. OF THE WEST-WY	\$1,407,473	5,633	\$249.86	\$0	0.000%
512251	C 3	RANGE TEL. COOPERATIVE INC.-WY	\$782,503	1,333	\$587.02	\$156,602	0.063%
512289	A 3	CHUGWATER TELEPHONE COMPANY	\$73,697	232	\$317.66	\$4,117	0.002%
512290	C 3	UTAH-WYOMING TELECOM WY	\$103,580	289	\$358.41	\$9,176	0.004%
512291	C 3	DUBOIS TELEPHONE EXCHANGE INC.	\$893,320	1,537	\$581.21	\$177,219	0.071%
512292	A 3	EDEN VALLEY TEL. CO.	\$71,020	217	\$327.28	\$4,529	0.002%
512294	C 2	MEDICINE BOW TELEPHONE COMPANY	\$56,104	233	\$240.79	\$0	0.000%
512295	C 3	SILVER STAR TEL. CO.- WY	\$271,700	958	\$283.61	\$6,397	0.003%
512296	A 3	TRI-COUNTY TEL. ASSN. INC.-WY	\$294,619	927	\$317.82	\$16,497	0.007%
512297	C 3	UNION TELEPHONE CO.	\$863,550	2,748	\$314.25	\$45,716	0.018%
512299	C 2	TELEPHONE UTILITIES OF WYOMING, INC.	\$666,532	2,604	\$255.96	\$0	0.000%
515108	C 1	MOUNTAIN BELL-WYOMING	\$82,384,043	208,675	\$394.80	\$1,975,500	0.791%

TABLE 3.4

National Exchange Carrier Association  
 Universal Service Fund  
 Individual Study Areas  
 Data for 1987

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1989 AT 4/8 TRANSITION	PERCENT OF TOTAL
TOTAL:		INDUSTRY	\$28,084,415,355	122,773,173	\$228.75	\$249,792,287	100.000%

ANY DIFFERENCES FROM ACTUAL DATA FILED ARE DUE TO ROUNDING

TABLE 3.5

National Exchange Carrier Association  
 Universal Service Fund  
 Individual Study Areas  
 Percentage Changes from 1986 to 1987

STUDY AREA CODE	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND AFTER FULL TRANSITION	UNIVERSAL SERVICE FUND APPLICABLE TO LATER YEAR
TOTAL:	ALABAMA	4.49%	5.43%	-0.90%	15.01%	53.35%
250281	CONTINENTAL TEL CO OF THE SOUTH - AL	3.57%	4.34%	-0.74%	4.61%	39.48%
250282	BLOUNTSVILLE TEL. COMPANY INC.	0.62%	5.58%	-4.70%	0.00%	0.00%
250283	BRINDLEE MOUNTAIN TEL. COMPANY	-1.86%	2.98%	-4.70%	0.00%	0.00%
250284	BUTLER TELEPHONE CO. INC.	7.87%	-1.63%	9.65%	55.72%	107.62%
250285	CASTLEBERRY TEL. COMPANY INC.	0.97%	5.95%	-4.70%	0.00%	0.00%
250286	NATIONAL TEL. CO. OF AL	-1.77%	3.08%	-4.70%	0.00%	0.00%
250289	ELMORE COOSA TEL CO					
	MERGED INTO 250302 ALLTEL ALABAMA					
250290	FARMERS TEL COOP INC - ALABAMA	-0.56%	4.34%	-4.70%	0.00%	0.00%
250293	GTE SOUTH INC. - ALABAMA	8.06%	4.36%	3.55%	33.47%	77.96%
250295	GRACEBA TOTAL COMMUNICATIONS	-19.16%	0.97%	-19.93%	-100.00%	-100.00%
250296	GOSHEN TELEPHONE COMPANY	0.87%	5.84%	-4.70%	0.00%	0.00%
250297	GROVE HILL TEL. CORP.	-2.42%	2.52%	-4.81%	-48.14%	-30.86%
250298	GULF TELEPHONE COMPANY - ALABAMA	-8.34%	5.57%	-13.18%	-82.65%	-76.87%
250299	HAYNEVILLE TEL. COMPANY INC.	-1.27%	3.60%	-4.70%	0.00%	0.00%
250300	HOPPER TEL. COMPANY INC.	2.78%	1.77%	1.00%	8.33%	44.43%
250301	LAMAR COUNTY TEL. COMPANY	-4.42%	0.29%	-4.70%	0.00%	0.00%
250302	ALLTEL ALABAMA	1.33%	6.33%	-4.70%	0.00%	0.00%
250304	MILLRY TELEPHONE CO. INC	16.62%	6.66%	9.34%	33.33%	77.77%
250305	MON-CRE TEL. COOP. INC.	6.51%	11.76%	-4.70%	0.00%	0.00%
250306	MONROEVILLE TELEPHONE COMPANY	17.69%	3.49%	13.71%	114.18%	185.58%
250307	MOUNDEVILLE TELEPHONE COMPANY	1.57%	6.58%	-4.70%	0.00%	0.00%
250308	NEW HOPE TEL. COOP. INC.- AL	-1.99%	2.85%	-4.70%	0.00%	0.00%
250311	OAKMAN TEL. COMPANY INC.	-0.26%	4.66%	-4.70%	0.00%	0.00%
250312	ONEONTA TEL. COMPANY INC.	-2.42%	2.39%	-4.70%	0.00%	0.00%
250314	PEOPLES TELEPHONE COMPANY	9.42%	5.53%	3.69%	24.59%	66.12%
250315	PINE BELT TELEPHONE COMPANY	-22.56%	3.85%	-25.43%	-100.00%	-100.00%
250316	RAGLAND TEL. CO.	6.58%	9.58%	-2.74%	-7.36%	23.52%
250317	ROANOKE TEL. CO. INC.	-1.10%	3.78%	-4.70%	0.00%	0.00%
250318	SOUTHLAND TEL. CO.-AL	9.02%	-1.12%	10.26%	103.53%	171.38%
250322	UNION SPRINGS TEL. COMPANY	1.46%	6.46%	-4.70%	0.00%	0.00%
250461	SOUTHEAST MISSISSIPPI TELEPHONE CO.	112.70%	159.39%	-18.00%	78.85%	138.46%
255181	SOUTH CENTRAL BELL-AL	4.36%	5.63%	-1.21%	0.00%	0.00%
TOTAL:	ALASKA	4.28%	1.85%	2.38%	-3.96%	28.05%
613000	ANCHORAGE TELEPHONE UTILITY	19.83%	-0.86%	20.86%	0.00%	0.00%
613001	ARCTIC SLOPE TEL. ASSOCIATION COOP. IN	-8.64%	12.37%	-18.70%	-13.35%	15.53%
613002	BETTLES TELEPHONE CO. INC.	-2.86%	2.27%	-5.02%	-6.40%	24.80%
613003	BRISTOL BAY TELEPHONE COOP. INC.	-6.52%	10.79%	-15.63%	-13.99%	14.67%
613004	BUSH-TELL INC.	-7.34%	18.78%	-21.99%	-23.15%	2.47%
613005	CIRCLE UTILITIES	-4.95%	0.00%	-4.95%	-7.30%	23.59%
613006	COPPER VALLEY TEL. COOP. INC.	13.33%	-12.49%	29.50%	46.61%	95.48%
613007	CORDOVA TELEPHONE COOPERATIVE, INC.	-7.84%	2.65%	-10.22%	-21.88%	4.16%
613008	FAIRBANKS MUNICIPAL UTILITIES SYSTEM	-0.97%	2.38%	-3.27%	-3.85%	28.20%
613009	GTE ALASKA INCORPORATED	21.25%	0.83%	20.25%	0.00%	0.00%
613010	GLACIER STATE TELEPHONE COMPANY	-6.12%	20.98%	-22.40%	-17.15%	10.47%
613011	INTERIOR TELEPHONE COMPANY INC.	13.47%	7.97%	5.10%	16.67%	55.56%
613012	JUNEAU & DOUGLAS TELEPHONE COMPANY	-11.61%	-8.46%	-3.44%	-16.67%	11.11%
613013	KETCHIKAN PUBLIC UTILITIES	-5.26%	5.36%	-10.08%	-14.74%	13.68%
613015	MATANUSKA TELEPHONE ASSOC., INC.	10.70%	0.64%	9.99%	20.02%	60.03%
613016	MUKLUK TEL. COMPANY, INC.	-1.21%	8.60%	-9.03%	-3.85%	28.20%
613017	NATIONAL UTILITIES INC.	13.13%	34.66%	-15.99%	-38.23%	-17.64%
613018	NUSHAGAK TELEPHONE COOPERATIVE, INC.	18.41%	7.44%	10.21%	27.63%	70.17%
613019	OTZ TELEPHONE COOPERATIVE, INC.	8.80%	-3.44%	12.67%	38.39%	84.52%
613020	SITKA TELEPHONE COMPANY	-11.68%	10.13%	-19.81%	-30.28%	-7.04%
613022	TELEPHONE UTILITIES OF ALASKA	-31.66%	5.72%	-35.35%	0.00%	0.00%
613023	UNITED UTILITIES INC.	-0.56%	-10.97%	11.69%	9.45%	45.93%
613025	YUKON TELEPHONE COMPANY, INC.	11.13%	5.64%	5.20%	15.44%	53.92%
613026	NORTH COUNTRY TELEPHONE COMPANY	-6.28%	-2.35%	-4.02%	-9.97%	20.04%
613028	SUMMIT TEL & TEL CO OF ALASKA	44.56%	72.73%	-16.31%	26.83%	69.11%

TABLE 3.5

National Exchange Carrier Association  
 Universal Service Fund  
 Individual Study Areas  
 Percentage Changes from 1986 to 1987

STUDY AREA CODE	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND AFTER FULL TRANSITION	UNIVERSAL SERVICE FUND APPLICABLE TO LATER YEAR
TOTAL:	ARIZONA	0.85%	5.18%	-4.11%	0.16%	33.54%
452171	ARIZONA TEL. CO.	14.70%	9.47%	4.78%	21.14%	61.52%
452172	CITIZENS UTILITIES RURAL COMPANY INC.	5.98%	0.35%	5.61%	20.06%	60.08%
452173	PAPAGO TRIBAL UTILITY AUTHORITY	NEW COMPANY SERVING TERRITORY FORMERLY SERVED BY 455101 MOUNTAIN BELL - AZ				
452174	SOUTHWESTERN TEL. CO.	-11.25%	-6.87%	-4.70%	0.00%	0.00%
452175	UNIVERSAL TEL CO OF SOUTHWEST - AZ	5.57%	12.37%	-6.05%	-15.48%	12.70%
452176	VALLEY TELEPHONE COOPERATIVE INC-AZ	3.22%	4.10%	-0.84%	3.45%	37.93%
452177	CONTEL OF THE WEST - ARIZONA	-3.05%	5.51%	-8.11%	-10.61%	19.19%
452275	NAVAJO COMMUNICATIONS CO. INC.- AZ	-1.66%	-1.12%	-0.55%	-1.40%	31.47%
452302	CONTEL OF CALIFORNIA - ARIZONA	-24.96%	5.54%	-28.90%	-61.65%	-48.87%
455101	MOUNTAIN BELL-ARIZONA	0.91%	5.33%	-4.19%	ERR	ERR
TOTAL:	ARKANSAS	1.61%	2.21%	-0.59%	9.61%	46.15%
401691	ALLTEL ARKANSAS, INC.	8.37%	3.66%	4.55%	34.92%	79.89%
401692	ARKANSAS TELEPHONE COMPANY	-7.55%	4.09%	-11.18%	-100.00%	-100.00%
401697	CENTRAL ARKANSAS TEL. COOP INC.	4.51%	3.94%	0.55%	11.90%	49.20%
401698	CLEVELAND COUNTY TEL. CO.	79.81%	4.04%	72.82%	371.20%	528.27%
401699	DECATUR TELEPHONE CO INC- ARKANSAS	-2.34%	3.06%	-5.23%	-18.93%	8.09%
401702	SOUTH ARKANSAS TEL. CO., INC.	1.84%	2.88%	-1.01%	3.02%	37.36%
401704	LAVACA TELEPHONE-AR	0.25%	5.20%	-4.70%	0.00%	0.00%
401705	LIBERTY TEL. & COMMUNICATIONS INC.	14.89%	8.45%	5.94%	50.76%	101.01%
401709	MADISON COUNTY TEL. CO. INC.	-0.81%	3.90%	-4.53%	-13.28%	15.62%
401710	MAGAZINE TELEPHONE COMPANY	-1.80%	6.44%	-7.74%	-69.70%	-59.60%
401711	MOUNTAIN HOME TELEPHONE COMPANY INC.	5.03%	3.70%	1.27%	462.32%	649.76%
401712	MOUNTAIN VIEW TELEPHONE COMPANY	-1.55%	8.49%	-9.25%	0.00%	0.00%
401713	NORTHERN ARKANSAS TEL. CO., INC.	1.81%	2.07%	-0.25%	5.68%	40.90%
401717	PERCO TELEPHONE COMPANY	-3.21%	3.32%	-6.32%	-70.95%	-61.26%
401718	PRAIRIE GROVE TELEPHONE COMPANY	0.22%	5.16%	-4.70%	0.00%	0.00%
401720	REDFIELD TELEPHONE COMPANY INC.	10.93%	3.23%	7.46%	33.49%	77.99%
401721	RICE BELT TEL. CO., INC.	-3.46%	2.65%	-5.96%	-41.28%	-21.71%
401722	E. RITTER TELEPHONE COMPANY	26.11%	-5.80%	33.87%	0.00%	0.00%
401724	SOUTHWEST ARKANSAS TEL. COOP. INC.	-30.99%	4.48%	-33.95%	-100.00%	-100.00%
401726	TRI-COUNTY TEL. CO. INC.-AR	3.22%	12.95%	-8.61%	-14.34%	14.22%
401727	UNION TELEPHONE COMPANY INC.	57.39%	6.15%	48.27%	156.11%	241.49%
401728	UNITED TELEPHONE CO. OF ARK. INC.	0.06%	3.12%	-2.96%	-100.00%	-100.00%
401729	WALNUT HILL TELEPHONE COMPANY	18.60%	1.57%	16.77%	43.89%	91.86%
401730	CONTEL OF ARKANSAS, INC.	0.84%	1.63%	-0.78%	2.08%	36.11%
401733	YELCOT TEL. CO., INC.	13.67%	1.78%	11.68%	77.76%	137.01%
401734	YELL COUNTY TELEPHONE COMPANY	9.57%	5.11%	4.24%	0.00%	0.00%
402080	GTE SOUTHWEST INC. - ARKANSAS	2.27%	3.87%	-1.54%	1.29%	35.05%
405211	SOUTHWESTERN BELL-ARKANSAS	0.54%	1.72%	-1.17%	0.87%	34.49%
TOTAL:	CALIFORNIA	-0.31%	6.60%	-6.48%	-3.80%	28.27%
542301	CALAVERAS TELEPHONE COMPANY	10.95%	10.63%	0.29%	12.69%	50.25%
542302	CONTEL OF CALIFORNIA - CALIFORNIA	-1.34%	7.07%	-7.85%	-22.93%	2.77%
542304	C P NATIONAL CORP. - CALIFORNIA	1.38%	-1.87%	3.30%	9.24%	45.65%
542306	CAPAY VALLEY TEL SYS	MERGED INTO 542315 EVANS TELEPHONE COMPANY				
542308	CITIZENS UTILITIES CO. OF CALIF.	10.76%	10.66%	0.09%	12.27%	49.69%
542311	CALIFORNIA-OREGON TELEPHONE CO	5.47%	-3.73%	9.56%	17.81%	57.08%
542313	DUCOR TELEPHONE COMPANY	-1.18%	-0.75%	-0.44%	-0.24%	33.02%
542315	EVANS TELEPHONE COMPANY	15.42%	10.37%	4.57%	37.02%	82.70%
542318	FORESTHILL TELEPHONE COMPANY	10.00%	9.07%	0.86%	17.24%	56.33%
542319	GENERAL TEL CO OF CALIFORNIA	1.31%	4.55%	-3.09%	-10.21%	19.72%
542321	HAPPY VALLEY TELEPHONE COMPANY	19.94%	8.36%	10.69%	31.54%	75.39%
542322	HORNITOS TELEPHONE COMPANY	22.59%	5.33%	16.39%	30.12%	73.49%
542324	KERMAN TELEPHONE COMPANY	15.20%	4.16%	10.60%	119.59%	192.78%
542332	THE PONDEROSA TELEPHONE COMPANY	-0.64%	6.40%	-6.62%	-4.00%	28.00%
542334	ROSEVILLE TELEPHONE COMPANY	10.69%	7.40%	3.06%	0.00%	0.00%
542338	SIERRA TELEPHONE COMPANY, INC.	5.17%	4.48%	0.66%	7.63%	43.50%

TABLE 3.5

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STUDY AREA CODE	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND AFTER FULL TRANSITION	UNIVERSAL SERVICE FUND APPLICABLE TO LATER YEAR
CALIFORNIA (CONT.)						
542339	THE SISKIYOU TELEPHONE CO.	-1.94%	4.13%	-5.83%	-6.33%	24.89%
542342	TUOLUMNE TELEPHONE COMPANY	-1.92%	4.25%	-5.92%	-3.79%	28.28%
542343	THE VOLCANO TELEPHONE COMPANY	-2.32%	5.88%	-7.74%	-17.35%	10.20%
542344	WEST COAST TEL. CO. OF CALIFORNIA	-9.72%	6.03%	-14.85%	-100.00%	-100.00%
542346	PINNACLES TELEPHONE COMPANY	31.67%	0.00%	31.67%	57.27%	109.70%
545170	PACIFIC BELL	-1.09%	7.08%	-7.63%	0.00%	0.00%
TOTAL:	COLORADO	-1.21%	2.59%	-3.70%	-8.69%	21.75%
461835	SUNFLOWER TELEPHONE CO., INC. - CO	4.21%	-5.19%	9.92%	17.77%	57.02%
462178	AGATE TELEPHONE CO.	1.54%	8.70%	-6.58%	-3.88%	28.16%
462181	BIJOU TEL COOPERATIVE ASSOC. INC	3.01%	1.39%	1.60%	24.69%	66.25%
462182	BLANCA TELEPHONE CO.	1.70%	7.93%	-5.77%	-2.73%	29.69%
462184	DELTA COUNTY TELE-COMM INC.	10.50%	2.12%	8.20%	0.00%	0.00%
462185	EAGLE TELECOMMUNICATIONS INC.	-11.88%	18.27%	-25.49%	-35.52%	-14.02%
462186	EASTERN SLOPE RURAL TEL ASSN INC	-2.06%	2.27%	-4.23%	-24.78%	0.29%
462187	EL PASO COUNTY MUTUAL TEL CO	15.63%	3.98%	11.21%	32.19%	76.26%
462188	FARMERS TEL CO, INC. - COLORADO	9.94%	-0.74%	10.76%	19.68%	59.57%
462190	HAXTUN TELEPHONE COMPANY	20.06%	3.28%	16.25%	607.90%	843.86%
462192	BIG SANDY TELECOM INC.	8.87%	0.31%	8.54%	15.42%	53.90%
462193	NUCLA-NATURITA TEL. CO.	-11.41%	-6.51%	-5.24%	-15.97%	12.04%
462194	NUNN TEL. COMPANY	-4.93%	1.19%	-6.04%	-9.18%	21.09%
462196	PEETZ COOP. TEL. CO.	3.21%	-1.65%	4.94%	10.52%	47.37%
462197	PHILLIPS COUNTY TEL. CO.	37.94%	-2.73%	41.81%	0.00%	0.00%
462198	PINE DRIVE TEL. CO.	-2.22%	3.17%	-5.22%	0.00%	0.00%
462199	PLAINS COOPERATIVE TEL. ASSOC. INC.	0.79%	1.39%	-0.59%	3.30%	37.73%
462201	RICO TEL. CO.	-8.59%	-5.81%	-2.95%	-10.80%	18.93%
462202	ROGGEN TELEPHONE COOPERATIVE CO.	-4.38%	0.61%	-4.95%	-14.10%	14.53%
462203	THE RYE TELEPHONE CO. INC.	-5.76%	0.25%	-5.99%	-11.69%	17.75%
462204	COLUMBINE TELEPHONE COMPANY	5.84%	3.60%	2.16%	8.72%	44.95%
462206	STONEHAM COOPERATIVE TEL. CO.	5.94%	15.22%	-8.05%	-1.38%	31.49%
462207	STRASBURG TEL. CO.	13.59%	0.24%	13.32%	1070.59%	1460.79%
462208	UNIVERSAL TEL. CO. OF COLORADO	2.96%	2.46%	0.49%	10.55%	47.40%
462209	WIGGINS TEL. ASSOC.	-6.77%	-3.76%	-3.13%	-11.00%	18.67%
462210	WILLARD TEL. CO.	-3.34%	1.79%	-5.04%	-7.36%	23.51%
465102	MOUNTAIN BELL-COLORADO	-1.28%	2.58%	-3.76%	0.00%	0.00%
TOTAL:	CONNECTICUT	5.41%	3.71%	1.64%	0.00%	0.00%
132454	THE WOODBURY TEL. CO.	-5.37%	-0.71%	-4.70%	0.00%	0.00%
135200	SOUTHERN NEW ENGLAND TEL.	5.51%	3.75%	1.70%	0.00%	0.00%
TOTAL:	DELAWARE	1.39%	5.87%	-4.23%	0.00%	0.00%
565010	DIAMOND STATE TEL. CO.	1.39%	5.87%	-4.23%	0.00%	0.00%
TOTAL:	DISTRICT OF COLUMBIA	-5.37%	1.10%	-6.41%	0.00%	0.00%
575020	C & P TELEPHONE CO. OF WASHINGTON DC	-5.37%	1.10%	-6.41%	0.00%	0.00%
TOTAL:	FLORIDA	2.70%	7.87%	-4.80%	-15.41%	12.78%
210291	FLORALA TELEPHONE COMPANY- FLORIDA	3.08%	4.75%	-1.60%	2.15%	36.20%
210318	SOUTHLAND TELEPHONE COMPANY-FL	17.30%	1.21%	15.90%	96.44%	161.92%
210328	GTE FLORIDA INCORPORATED	10.36%	5.71%	4.40%	ERR	ERR
210329	GULF TEL. CO.- FL	12.48%	3.26%	8.92%	2816.60%	3788.80%
210330	VISTA-UNITED TELECOMMUNICATIONS SYSTE	4.72%	214.54%	-66.71%	-100.00%	-100.00%
210331	INDIANTOWN TELEPHONE SYSTEM	1.62%	4.40%	-2.67%	0.37%	33.83%
210335	NORTHEAST FLORIDA TEL. CO., INC.	-3.94%	7.69%	-10.80%	-21.06%	5.25%
210336	ALLTEL FLORIDA INC.	8.24%	6.70%	1.44%	14.41%	52.55%



TABLE 3.5

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FLORIDA (CONT.)						
210338	QUINCY TELEPHONE CO-FL DIV.	8.33%	8.93%	-0.54%	11.79%	49.06%
210339	ST. JOSEPH TEL. AND TELE. CO.	15.44%	3.15%	11.91%	117.80%	190.40%
210340	CENTRAL TELEPHONE COMPANY OF FLORIDA	-2.92%	7.01%	-9.28%	0.00%	0.00%
210341	UNITED TELEPHONE CO. OF FLORIDA	8.06%	8.01%	0.05%	29.46%	72.61%
215191	SOUTHERN BELL-FLORIDA	-0.56%	8.65%	-8.47%	-31.92%	-9.22%
TOTAL:	GEORGIA	10.39%	7.97%	2.25%	72.86%	130.48%
220281	CONTINENTAL TEL CO OF THE SOUTH-GA	8.44%	4.18%	4.09%	24.63%	66.18%
220324	VALLEY TEL. CO.- GA	-4.18%	2.22%	-6.26%	0.00%	0.00%
220338	QUINCY TELEPHONE CO-GA DIV.	11.39%	3.09%	8.05%	45.23%	93.64%
220344	ALMA TELEPHONE CO INC	-4.37%	4.14%	-8.17%	-23.34%	2.21%
220346	BLUE RIDGE TELEPHONE COMPANY	-1.32%	3.55%	-4.70%	0.00%	0.00%
220347	BRANTLEY TELEPHONE COMPANY INC.	3.42%	19.64%	-13.55%	-29.46%	-5.95%
220348	BULLOCH COUNTY RURAL TEL. COOP INC.	-0.83%	4.07%	-4.70%	0.00%	0.00%
220351	CAMDEN TEL & TEL CO INC - GEORGIA	-1.98%	17.17%	-16.35%	-41.04%	-21.39%
220354	CHICKAMAUGA TEL. CORP.	0.90%	5.87%	-4.70%	0.00%	0.00%
220355	CITIZENS TELEPHONE CO INC - GEORGIA	15.23%	-0.41%	15.71%	94.92%	159.90%
220356	COASTAL UTILITIES INC	-15.57%	6.95%	-21.06%	-100.00%	-100.00%
220357	ALLTEL GEORGIA INC.	2.63%	7.69%	-4.70%	0.00%	0.00%
220358	DARIEN TELEPHONE CO. INC.	30.84%	8.10%	21.04%	335.33%	480.44%
220360	ELLIJAY TEL. CO.	4.85%	7.91%	-2.84%	0.00%	0.00%
220362	FAIRMOUNT TELEPHONE CO. INC.	-4.77%	-0.07%	-4.70%	0.00%	0.00%
220364	GEORGIA TELEPHONE CORPORATION	13.77%	19.38%	-4.70%	0.00%	0.00%
220365	GLENWOOD TEL. CO. INC.	-11.31%	-6.94%	-4.70%	0.00%	0.00%
220368	HART COUNTY TELEPHONE COMPANY	0.54%	5.49%	-4.70%	0.00%	0.00%
220369	HAWKINSVILLE TELEPHONE CO.	-1.66%	3.19%	-4.70%	0.00%	0.00%
220371	INTERSTATE TELEPHONE COMPANY	-2.83%	4.40%	-6.93%	0.00%	0.00%
220375	NELSON-BALL GROUND TEL. CO.	4.61%	9.77%	-4.70%	0.00%	0.00%
220376	PEMBROKE TELEPHONE CO. INC.	0.91%	5.88%	-4.70%	0.00%	0.00%
220377	PINELAND TELEPHONE COOP	-1.24%	0.24%	-1.48%	-13.10%	15.86%
220378	PLANTERS RURAL TEL. COOP INC.	-2.07%	2.76%	-4.70%	0.00%	0.00%
220379	PLANT TELEPHONE COMPANY	3.57%	4.21%	-0.62%	4.72%	39.62%
220380	PROGRESSIVE RURAL TEL. COOP INC.	-1.42%	3.44%	-4.70%	0.00%	0.00%
220381	PUBLIC SERVICE TELEPHONE CO.	5.14%	3.59%	1.50%	10.61%	47.48%
220382	RINGGOLD TEL. COMPANY	0.62%	5.58%	-4.70%	0.00%	0.00%
220386	STANDARD TEL. CO.	10.52%	7.27%	3.03%	26.68%	68.91%
220387	STATESBORO TEL. CO.	-0.17%	4.75%	-4.70%	0.00%	0.00%
220389	TRENTON TELEPHONE COMPANY	0.67%	5.64%	-4.70%	0.00%	0.00%
220392	WAVERLY HALL TEL. CO., INC.	14.55%	3.64%	10.52%	203.07%	304.10%
220394	WILKES TEL & ELECTRIC CO.	-8.21%	3.74%	-11.52%	0.00%	0.00%
220395	WILKINSON COUNTY TEL. CO. INC.	0.08%	5.02%	-4.70%	0.00%	0.00%
220479	GTE SOUTH INC. - GEORGIA	21.03%	3.93%	16.46%	136.75%	215.67%
225192	SOUTHERN BELL-GEORGIA	10.32%	8.53%	1.65%	145.25%	227.00%
290391	WALKER COUNTY TEL CO					
			MERGED INTO 220281			
TOTAL:	HAWAII	3.22%	4.00%	-0.74%	0.00%	0.00%
623100	GTE HAWAIIAN TEL. CO. INC.	3.22%	4.00%	-0.74%	0.00%	0.00%
TOTAL:	IDAHO	-4.64%	2.14%	-6.64%	-32.90%	-10.53%
472177	CONTEL OF THE WEST - IDAHO	-10.83%	5.68%	-15.62%	-24.06%	1.25%
472213	ALBION TEL. CO. INC.	-8.08%	8.85%	-15.55%	-15.86%	12.19%
472215	CAMBRIDGE TEL. CO., INC.-ID	2.59%	0.00%	2.59%	6.77%	42.36%
472218	CUSTER TEL. COOPERATIVE INC.	-10.83%	-6.14%	-4.99%	-22.34%	3.55%
472220	FILER MUTUAL TELEPHONE COMPANY - ID	-1.92%	2.91%	-4.70%	0.00%	0.00%
472221	FARMERS MUTUAL TEL CO LTD. - ID	3.56%	8.67%	-4.70%	0.00%	0.00%
472223	GEM STATE UTILITIES CORP-ID	-9.32%	-0.24%	-9.09%	-11.96%	17.39%
472225	CENTURY TELEPHONE OF IDAHO	-1.38%	3.51%	-4.72%	-5.15%	26.46%



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IDAHO (CONT.)						
472226	MIDVALE TEL. EXCH. INC.	-4.75%	-11.55%	7.69%	1.05%	34.73%
472227	MUD LAKE TEL. COOP. INC. ASSOC.	-2.23%	4.51%	-6.45%	-19.49%	7.35%
472230	POTLATCH TELEPHONE COMPANY INC.	-2.38%	4.78%	-6.83%	-38.54%	-18.06%
472231	PROJECT MUTUAL TEL. COOP. ASSN.	-1.62%	-0.66%	-0.96%	0.00%	0.00%
472232	ROCKLAND TEL. CO., INC.	0.07%	-1.97%	2.08%	2.11%	36.15%
472233	RURAL TELEPHONE COMPANY - ID	-26.47%	21.20%	-39.33%	-36.56%	-15.42%
472234	TROY TELEPHONE COMPANY	-14.79%	0.94%	-15.58%	-42.54%	-23.39%
472295	SILVER STAR TEL. CO. INC.-ID	16.47%	-1.57%	18.33%	37.64%	83.52%
472416	GTE NORTHWEST INC. - IDAHO	-14.11%	2.76%	-16.42%	-43.73%	-24.98%
472423	INLAND TELEPHONE COMPANY - ID	1.96%	14.12%	-10.65%	-2.03%	30.62%
475103	MOUNTAIN BELL-IDAHO	-1.43%	1.90%	-3.27%	0.00%	0.00%
475162	PACIFIC NORTHWEST BELL-IDAHO	0.60%	2.40%	-1.75%	0.00%	0.00%
TOTAL:	ILLINOIS	0.89%	2.26%	-1.34%	64.05%	118.74%
340976	ADAMS TELEPHONE COOPERATIVE	-4.73%	-0.05%	-4.68%	-37.96%	-17.28%
340978	ALHAMBRA-GRANTFORK TELEPHONE COMPANY	-4.07%	0.66%	-4.70%	0.00%	0.00%
340983	CAMBRIDGE TELEPHONE COMPANY - IL	-4.27%	0.45%	-4.70%	0.00%	0.00%
340984	CASS COUNTY TELEPHONE COMPANY	-1.62%	3.23%	-4.70%	0.00%	0.00%
340985	CENTRAL TEL. CO. OF IL	2.02%	6.95%	-4.61%	0.00%	0.00%
340986	CHANDLERVILLE TELEPHONE COMPANY	-2.20%	2.63%	-4.70%	0.00%	0.00%
340990	CLARKSVILLE MUTUAL TELEPHONE COMPANY	-2.03%	4.41%	-6.17%	-12.58%	16.55%
340993	CROSSVILLE TELEPHONE COMPANY	-6.09%	-1.46%	-4.70%	0.00%	0.00%
340998	DEPUÉ TELEPHONE COMPANY	-2.19%	2.63%	-4.70%	0.00%	0.00%
341000	ALLTEL ILLINOIS INC.	6.73%	-1.53%	8.38%	0.00%	0.00%
341003	EGYPTIAN TELEPHONE COOPERATIVE ASSN.	-7.67%	2.13%	-9.60%	-100.00%	-100.00%
341004	EL PASO TELEPHONE COMPANY	-3.86%	2.55%	-6.25%	0.00%	0.00%
341009	C-R TELEPHONE COMPANY	-8.39%	-1.27%	-7.21%	0.00%	0.00%
341011	LAKESIDE TEL. CO.	7.13%	0.28%	6.83%	48.00%	97.33%
341012	FLAT ROCK MUTUAL TELEPHONE COMPANY	-3.01%	1.77%	-4.70%	0.00%	0.00%
341015	GTE NORTH INC. - ILLINOIS	-0.94%	7.96%	-8.24%	0.00%	0.00%
341016	GENESEO TELEPHONE COMPANY	1.42%	6.42%	-4.70%	0.00%	0.00%
341017	GLASFORD TELEPHONE COMPANY	2.32%	7.37%	-4.70%	0.00%	0.00%
341020	GRAFTON TELEPHONE COMPANY	-2.08%	2.75%	-4.70%	0.00%	0.00%
341021	THE GRANDVIEW MUTUAL TELEPHONE CO.	-2.25%	4.00%	-6.01%	-9.86%	20.19%
341023	GRIDLEY TELEPHONE COMPANY	5.84%	-2.45%	8.50%	0.00%	0.00%
341024	HAMILTON COUNTY TELEPHONE COOP.	-3.10%	3.41%	-6.30%	-49.67%	-32.90%
341025	SHAWNEE TELEPHONE COMPANY	-4.35%	0.90%	-5.20%	0.00%	0.00%
341026	HARRISONVILLE TELEPHONE COMPANY	0.23%	5.18%	-4.70%	0.00%	0.00%
341029	HENRY COUNTY TEL. CO.	6.94%	12.22%	-4.70%	0.00%	0.00%
341032	HOME TELEPHONE COMPANY - ST JACOB	-1.33%	3.53%	-4.70%	0.00%	0.00%
341036	CONTEL OF ILLINOIS, INC.	1.62%	-1.27%	2.93%	117.24%	189.65%
341037	ILLINOIS CONSOLIDATED TELEPHONE CO.	3.96%	-1.72%	5.78%	0.00%	0.00%
341038	INLAND TEL. CO.	1.45%	-0.67%	2.14%	240.74%	354.31%
341041	KINSMAN MUTUAL TELEPHONE COMPANY	-6.37%	-2.50%	-3.97%	-9.82%	20.24%
341043	LA HARPE TELEPHONE COMPANY	-4.34%	0.38%	-4.70%	0.00%	0.00%
341045	LEAF RIVER VALLEY TELEPHONE COMPANY	20.06%	-0.36%	20.49%	158.46%	244.61%
341046	LEONORE MUTUAL TELEPHONE COMPANY	1.83%	11.03%	-8.28%	-14.17%	14.44%
341047	MCDONOUGH TELEPHONE COOPERATIVE INC.	-4.23%	1.13%	-5.30%	-100.00%	-100.00%
341048	MCNABB TELEPHONE COMPANY	-5.48%	-1.95%	-3.60%	0.00%	0.00%
341049	MADISON TELEPHONE COMPANY	-4.91%	-0.50%	-4.43%	0.00%	0.00%
341050	MARSEILLES TEL. CO. OF MARS.	-0.80%	4.09%	-4.70%	0.00%	0.00%
341053	METAMORA TELEPHONE COMPANY	-1.08%	3.79%	-4.70%	0.00%	0.00%
341054	MID CENTURY TEL. COOP. INC.	-3.52%	2.55%	-5.91%	-49.72%	-32.96%
341055	MIDLAND TELEPHONE COMPANY	-7.48%	3.31%	-10.44%	-40.93%	-21.24%
341058	MONTRÖSE MUTUAL TELEPHONE COMPANY	-4.65%	0.08%	-4.72%	-59.26%	-45.68%
341060	MOULTRIE INDEPENDENT TELEPHONE CO.	3.09%	0.30%	2.79%	0.00%	0.00%
341061	MT. PULASKI TELEPHONE & ELECTRIC CO.	-3.61%	1.14%	-4.70%	0.00%	0.00%
341062	NEW WINDSOR TELEPHONE COMPANY	-5.70%	-1.05%	-4.70%	0.00%	0.00%
341065	ODIN TELEPHONE EXCHANGE INC.	-4.35%	0.37%	-4.70%	0.00%	0.00%

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STUDY AREA CODE	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND AFTER FULL TRANSITION	UNIVERSAL SERVICE FUND APPLICABLE TO LATER YEAR
ILLINOIS (CONT.)						
341066	ONEIDA TELEPHONE EXCHANGE	-0.86%	4.03%	-4.70%	0.00%	0.00%
341067	ORION TELEPHONE EXCHANGE ASSOCIATION	-6.09%	-1.46%	-4.70%	0.00%	0.00%
341073	PRAIRIE TEL. CO.	6.08%	0.32%	5.74%	0.00%	0.00%
341075	REYNOLDS TELEPHONE COMPANY	-6.50%	-1.89%	-4.70%	0.00%	0.00%
341079	SCHUYLER TELEPHONE COMPANY - IL	0.33%	5.28%	-4.70%	0.00%	0.00%
341086	TONICA TELEPHONE COMPANY	-2.19%	2.63%	-4.70%	0.00%	0.00%
341087	VIOLA HOME TELEPHONE COMPANY	-2.89%	1.90%	-4.70%	0.00%	0.00%
341088	WABASH TELEPHONE COOPERATIVE INC.	-3.82%	0.93%	-4.70%	0.00%	0.00%
341091	WOODHULL COMMUNITY TELEPHONE COMPANY	-3.02%	1.76%	-4.70%	0.00%	0.00%
341092	STELLE TEL. CO.	-14.80%	-14.52%	-0.33%	-13.96%	14.72%
341093	YATES CITY TELEPHONE COMPANY	-3.53%	1.23%	-4.70%	0.00%	0.00%
345070	ILLINOIS BELL TEL CO	1.07%	1.72%	-0.65%	0.00%	0.00%
TOTAL:	INDIANA	8.93%	1.37%	7.45%	15.36%	53.81%
320742	BLOOMINGDALE HOME TEL. CO. INC.	-2.30%	2.51%	-4.70%	0.00%	0.00%
320744	CAMDEN TELEPHONE CO INC - INDIANA	-2.63%	2.18%	-4.70%	0.00%	0.00%
320747	CENTRAL INDIANA TELEPHONE CO. INC.	-3.77%	0.97%	-4.70%	0.00%	0.00%
320750	CITIZEN'S TEL CO, INC. FAIRMOUNT, IN	-3.78%	0.97%	-4.70%	0.00%	0.00%
320751	CITIZENS TELEPHONE CORP - WARREN	-3.03%	1.75%	-4.70%	0.00%	0.00%
320753	CLAY CTY RURAL TEL. COOP. INC.	-5.44%	3.22%	-8.39%	0.00%	0.00%
320756	CRAIGVILLE TELEPHONE CO INC.	6.21%	11.44%	-4.70%	0.00%	0.00%
320759	DAVIESS-MARTIN CTY RURAL TEL CORP	-2.52%	2.28%	-4.70%	0.00%	0.00%
320762	ELNORA TELEPHONE COMPANY INC.	5.83%	0.00%	5.83%	0.00%	0.00%
320770	GARRETT TEL CO					
320771	GEETINGSVILLE TELEPHONE CO INC.	-6.38%	-4.30%	-2.18%	0.00%	0.00%
320772	GTE NORTH INC. - INDIANA	5.78%	-3.99%	10.18%	0.00%	0.00%
320775	HANCOCK RURAL TELEPHONE CORP.	-1.53%	3.32%	-4.70%	0.00%	0.00%
320776	COMMUNICATIONS CORP OF INDIANA	-0.80%	4.09%	-4.70%	0.00%	0.00%
320777	HOME TELEPHONE COMPANY OF PITTSBORO	0.67%	5.64%	-4.70%	0.00%	0.00%
320778	HOME TELEPHONE COMPANY INC.	-16.94%	1.02%	-17.77%	-74.21%	-65.61%
320779	CONTEL OF INDIANA, INC.	2.36%	4.83%	-2.36%	-23.32%	2.23%
320783	LIGONIER TELEPHONE COMPANY	-1.19%	3.68%	-4.70%	0.00%	0.00%
320784	LIBERTY CENTER TELEPHONE COMPANY	-3.83%	0.91%	-4.70%	0.00%	0.00%
320788	MERCHANTS & FARMERS TELEPHONE CO	-3.20%	1.57%	-4.70%	0.00%	0.00%
320790	MONON TELEPHONE CO. INC.	-0.01%	4.92%	-4.70%	0.00%	0.00%
320791	MONROVIA TEL CORP					
320792	MULBERRY COOP. TELEPHONE CO INC.	-0.60%	4.31%	-4.70%	0.00%	0.00%
320796	NEW LISBON TELEPHONE COMPANY INC.	-4.83%	-0.13%	-4.70%	0.00%	0.00%
320797	NEW PARIS TELEPHONE INC.	4.63%	6.20%	-1.47%	0.00%	0.00%
320800	NORTHWESTERN INDIANA TEL. CO. INC.	26.20%	9.97%	14.76%	ERR	ERR
320801	ODON TEL. CO.	30.75%	37.20%	-4.70%	0.00%	0.00%
320807	PERRY-SPENCER RURAL TEL. COOP. INC.	-25.74%	-0.27%	-25.54%	-100.00%	-100.00%
320809	POSEYVILLE TELEPHONE CO INC.	-5.18%	-0.50%	-4.70%	0.00%	0.00%
320813	PULASKI-WHITE RURAL TEL. COOP. INC.	-18.67%	-0.06%	-18.62%	-100.00%	-100.00%
320815	ROCHESTER TELEPHONE CO. INC.	-1.12%	3.76%	-4.70%	0.00%	0.00%
320816	S & W TEL. CO., INC.	-4.29%	0.43%	-4.70%	0.00%	0.00%
320818	SMITHVILLE TEL. CO., INC.	-0.01%	4.93%	-4.70%	0.00%	0.00%
320819	SOUTHEASTERN IND. RURAL TEL. COOP INC	-2.41%	2.40%	-4.70%	0.00%	0.00%
320825	SUNMAN TEL. CO. INC.	-1.53%	3.32%	-4.70%	0.00%	0.00%
320826	SWAYZEE TEL. CO. INC.	-3.14%	1.63%	-4.70%	0.00%	0.00%
320827	SWEETSER RURAL TEL. CO. INC.	-2.64%	2.16%	-4.70%	0.00%	0.00%
320828	THORNTOWN TELEPHONE CO. INC.	-1.24%	3.63%	-4.70%	0.00%	0.00%
320829	TIPTON TELEPHONE COMPANY INC.	-1.51%	3.34%	-4.70%	0.00%	0.00%
320830	TRI-COUNTY TEL. CO. INC.-IN	13.55%	-5.12%	19.67%	0.00%	0.00%
320831	ALLTEL INDIANA INC.	-2.29%	2.53%	-4.70%	0.00%	0.00%
320832	UNITED TELEPHONE CO. OF INDIANA INC.	4.64%	3.86%	0.75%	222.52%	330.03%
320833	WADESVILLE TELEPHONE COMPANY INC.	-4.49%	0.46%	-4.92%	0.00%	0.00%
320834	WASH. CTY. RURAL TEL. COOP. INC.	-0.52%	4.38%	-4.70%	0.00%	0.00%
320837	WEST POINT TELEPHONE CO. INC.	-3.51%	1.24%	-4.70%	0.00%	0.00%

TABLE 3.5

National Exchange Carrier Association  
 Universal Service Fund  
 Individual Study Areas  
 Percentage Changes from 1986 to 1987

STUDY AREA CODE	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND AFTER FULL TRANSITION	UNIVERSAL SERVICE FUND APPLICABLE TO LATER YEAR	
INDIANA (CONT.)							
320839	YEOMAN TELEPHONE COMPANY INC.	-4.39%	4.54%	-8.54%	0.00%	0.00%	
325080	INDIANA BELL TEL CO	12.92%	2.63%	10.03%	0.00%	0.00%	
TOTAL:	IOWA	0.14%	0.76%	-0.61%	-48.41%	-31.21%	
351096	AMANA SOCIETY SERVICE CO.	-0.12%	4.80%	-4.70%	0.00%	0.00%	
351097	ANDREW TELEPHONE CO. INC.	-3.28%	3.02%	-6.12%	-48.57%	-31.42%	
351098	ARCADIA TELEPHONE COOP	-3.00%	3.67%	-6.43%	-53.15%	-37.54%	
351101	ATKINS TELEPHONE COMPANY	-0.99%	3.89%	-4.70%	0.00%	0.00%	
351105	AYRSHIRE FMRS. MUT. TEL. CO.	-4.87%	8.08%	-11.98%	0.00%	0.00%	
351107	BALDWIN-NASHVILLE TELEPHONE CO. INC.	-1.31%	7.38%	-8.10%	-67.55%	-56.74%	
351108	BARNES CITY COOP TELEPHONE CO.	-4.05%	1.19%	-5.18%	-14.70%	13.73%	
351110	BERNARD TELEPHONE COMPANY INC.	-3.70%	6.38%	-9.47%	-18.24%	9.02%	
351112	BREDA TELEPHONE COOPERATIVE	16.06%	2.38%	13.37%	ERR	ERR	
351113	BROOKLYN MUTUAL TELEPHONE COMPANY	42.11%	-7.33%	53.35%	0.00%	0.00%	
351114	THE BURT TELEPHONE COMPANY	-4.15%	1.67%	-5.73%	0.00%	0.00%	
351115	BUTLER-BREMER MUT. TELEPHONE COMPANY	-4.54%	0.17%	-4.70%	0.00%	0.00%	
351118	CASCADE TELEPHONE COMPANY	-3.41%	1.35%	-4.70%	0.00%	0.00%	
351119	CASEY MUTUAL TELEPHONE CO.	-2.87%	4.84%	-7.36%	0.00%	0.00%	
351121	CENTER JUNCTION TEL. CO., INC.	-4.62%	0.00%	-4.62%	-11.41%	18.12%	
351125	CENTRAL SCOTT TELEPHONE	-1.64%	3.21%	-4.70%	0.00%	0.00%	
351126	CHESTER TELEPHONE COMPANY- IOWA	-3.30%	2.45%	-5.61%	-17.96%	9.39%	
351127	CENTRAL TELEPHONE COMPANY - IOWA	0.00%	4.93%	-4.70%	0.00%	0.00%	
351129	THE CITIZENS MUTUAL TELEPHONE COMPANY	-4.70%	0.00%	-4.70%	0.00%	0.00%	
351130	CLARENCE TELEPHONE COMPANY INC.	-3.78%	0.96%	-4.70%	0.00%	0.00%	
351132	CLEAR LAKE INDP TELEPHONE CO	-0.27%	4.65%	-4.70%	0.00%	0.00%	
351133	C-M-L TEL COOP ASSN	-4.17%	0.92%	-5.05%	-16.61%	11.19%	
351134	COLO TELEPHONE COMPANY	-1.68%	3.17%	-4.70%	0.00%	0.00%	
351136	COON CREEK TELEPHONE COMPANY	-2.49%	2.32%	-4.70%	0.00%	0.00%	
351137	COON VALLEY COOP TEL. ASSN. INC.	-3.85%	1.82%	-5.56%	-47.14%	-29.52%	
351139	COOPERATIVE TELEPHONE COMPANY	-1.30%	7.55%	-8.22%	-77.41%	-69.89%	
351141	CORN BELT TELEPHONE COMPANY	-2.04%	2.79%	-4.70%	0.00%	0.00%	
351146	CUMBERLAND TEL. CO.	-3.33%	3.60%	-6.68%	0.00%	0.00%	
351147	DANVILLE MUT. TELEPHONE COMPANY	-2.42%	2.39%	-4.70%	0.00%	0.00%	
351148	DEEP RIVER MUT. TELEPHONE COMPANY	-4.17%	1.03%	-5.15%	-36.01%	-14.67%	
351149	DEFIANCE TELEPHONE COMPANY	-2.42%	4.56%	-6.68%	-27.19%	-2.91%	
351150	DIXON TELEPHONE COMPANY	-3.46%	1.30%	-4.70%	0.00%	0.00%	
351152	DUMONT TELEPHONE COMPANY	-7.88%	-3.33%	-4.70%	0.00%	0.00%	
351153	DUNKERTON TELEPHONE COOP., INC.	9.33%	-10.19%	21.73%	0.00%	0.00%	
351156	EAST BUCHANAN TELEPHONE COOP	-3.98%	1.96%	-5.82%	0.00%	0.00%	
351157	ELLSWORTH COOP TELEPHONE ASSN.	-2.94%	3.76%	-6.45%	-39.77%	-19.70%	
351160	FARMERS & BUSINESSMEN'S TEL. CO.	-4.40%	0.31%	-4.70%	0.00%	0.00%	
351162	FARMERS COOP TELEPHONE CO - DYSART	-2.77%	2.03%	-4.70%	0.00%	0.00%	
351166	FARMERS & MERCHANTS MUTUAL TEL. CO.	-3.00%	1.79%	-4.70%	0.00%	0.00%	
351168	FARMERS MUTUAL COOP TEL CO- HARLAN	-4.43%	0.53%	-4.93%	-21.13%	5.16%	
351169	FARMERS MUTUAL COOP TEL CO- MOULTON	-4.87%	-0.18%	-4.70%	0.00%	0.00%	
351171	FARMERS MUTUAL TEL CO- JESUP	-2.27%	2.55%	-4.70%	0.00%	0.00%	
351172	FARMERS MUTUAL TEL CO - NORA SPRINGS	-3.74%	1.01%	-4.70%	0.00%	0.00%	
351173	FARMERS MUTUAL TEL CO - SHELLSBURG	-0.32%	4.59%	-4.70%	0.00%	0.00%	
351174	FARMERS MUTUAL TEL CO - STANTON	-4.76%	-0.19%	-4.58%	-100.00%	-100.00%	
351175	FARMERS TELEPHONE COMPANY- BATAVIA	-4.21%	1.09%	-5.24%	0.00%	0.00%	
351176	FARMERS TELEPHONE COMPANY- ESSEX	-2.82%	1.97%	-4.70%	0.00%	0.00%	
351177	FARMERS TEL. CO.-RICEVILLE	-6.25%	-4.05%	-2.29%	0.00%	0.00%	
351179	FENTON CO-OP TELEPHONE COMPANY	-3.87%	1.92%	-5.68%	0.00%	0.00%	
351182	FORT ATKINSON TEL CO	MERGED INTO 351346 ACE TELEPHONE ASSOCIATION - IOWA					
351186	GTE NORTH INC. - IOWA	-3.15%	2.23%	-5.26%	0.00%	0.00%	
351187	MID-IOWA TELEPHONE CO.	-0.99%	3.89%	-4.70%	0.00%	0.00%	
351188	GOLDFIELD TEL. CO.	-4.70%	0.00%	-4.70%	0.00%	0.00%	
351189	RIVER VALLEY TEL. COOP.	-3.92%	2.14%	-5.93%	0.00%	0.00%	
351191	GRAND MOUND COOP TELEPHONE ASSN.	-1.37%	3.50%	-4.70%	0.00%	0.00%	

TABLE 3.5

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IOWA (CONT.)							
351195	GRISWOLD CO-OP TELEPHONE COMPANY	-2.85%	1.95%	-4.70%	0.00%	0.00%	
351199	HAWKEYE TELEPHONE COMPANY	-4.07%	1.36%	-5.35%	0.00%	0.00%	
351202	HOSPERS TELEPHONE EXCHANGE INC.	-1.96%	2.87%	-4.70%	0.00%	0.00%	
351203	HUBBARD COOP TEL. ASSN.	-1.08%	3.79%	-4.70%	0.00%	0.00%	
351205	HUXLEY COOP TELEPHONE COMPANY	-1.14%	3.73%	-4.70%	0.00%	0.00%	
351206	IAMO TELEPHONE COMPANY- IA	-5.13%	-0.71%	-4.45%	-15.69%	12.41%	
351207	CONTEL OF IOWA, INC.	-8.66%	-0.76%	-7.97%	-68.57%	-58.09%	
351209	INTERSTATE 35 TELEPHONE COMPANY	-2.90%	4.00%	-6.63%	-63.79%	-51.73%	
351212	JEFFERSON TELEPHONE COMPANY- IA	-2.72%	2.07%	-4.70%	0.00%	0.00%	
351213	JORDAN SOLDIER VAL COOP TEL. CO.	-3.16%	3.17%	-6.14%	-27.90%	-3.87%	
351214	KALONA COOP TELEPHONE COMPANY	89.21%	3.60%	82.64%	0.00%	0.00%	
351217	KEYSTONE FRMS. COOP TELEPHONE CO	-4.14%	1.20%	-5.27%	-46.32%	-28.42%	
351220	LA PORTE CITY TELEPHONE COMPANY	-0.03%	4.90%	-4.70%	0.00%	0.00%	
351222	LA MOTTE TELEPHONE CO.	-1.17%	3.70%	-4.70%	0.00%	0.00%	
351223	LAUREL TELEPHONE COMPANY INC.	-4.12%	1.07%	-5.14%	-31.16%	-8.22%	
351225	LEHIGH VALLEY COOP TEL. ASSN.	-1.13%	6.23%	-6.93%	0.00%	0.00%	
351228	LONE ROCK CO-OP TELEPHONE CO	-3.78%	1.78%	-5.47%	-33.73%	-11.64%	
351229	LOST NATION - ELWOOD TEL. CO.	-2.89%	-2.94%	0.05%	15.41%	53.88%	
351230	NORTHEAST IOWA TELEPHONE CO.	-2.00%	2.83%	-4.70%	0.00%	0.00%	
351232	LYNNVILLE COMM. TEL. CO. INC.	-3.36%	2.93%	-6.11%	-56.48%	-41.97%	
351235	MANILLA TELEPHONE COMPANY	-3.69%	1.06%	-4.70%	0.00%	0.00%	
351237	MARNE & ELK HORN TELEPHONE CO	-5.03%	-0.76%	-4.30%	-58.35%	-44.47%	
351238	MARTELLE COOP TELEPHONE ASSN	-4.98%	-0.72%	-4.29%	-25.25%	-0.33%	
351239	MASSENA TELEPHONE COMPANY	-4.30%	0.94%	-5.19%	-60.20%	-46.93%	
351241	MECHANICSVILLE TELEPHONE COMPANY	0.42%	5.37%	-4.70%	0.00%	0.00%	
351242	MILES COOP TEL. ASSN.	-3.08%	1.70%	-4.70%	0.00%	0.00%	
351243	MILLER TELEPHONE COMPANY-IA	-3.48%	2.04%	-5.41%	-9.90%	20.13%	
351245	MINBURN TELEPHONE COMPANY	-5.68%	-2.46%	-3.30%	0.00%	0.00%	
351246	MINERVA VALLEY TELEPHONE CO. INC.	-1.30%	8.33%	-8.89%	-100.00%	-100.00%	
351247	MODERN COOP TELEPHONE COMPANY	-3.75%	2.00%	-5.63%	-35.97%	-14.63%	
351248	MONTEZUMA MUTUAL TELEPHONE COMPANY	-1.20%	3.68%	-4.70%	0.00%	0.00%	
351249	MORLEY TELEPHONE COMPANY	-9.75%	-8.39%	-1.49%	-10.34%	19.55%	
351250	MUTUAL TEL. CO. OF MORNING SUN	-3.36%	1.40%	-4.70%	0.00%	0.00%	
351251	MEDIAPOLIS TELEPHONE COMPANY	1.31%	6.31%	-4.70%	0.00%	0.00%	
351252	MUTUAL TEL. CO.	-1.17%	3.70%	-4.70%	0.00%	0.00%	
351256	NORTH CENTRAL TEL CO	MERGED INTO 351328 WEBSTER-CALHOUN COOP TELEPHONE ASSN.					
351257	NORTH ENGLISH COOP TEL. COMPANY	-3.33%	1.43%	-4.70%	0.00%	0.00%	
351259	NORTHERN IOWA TELEPHONE COMPANY	-4.33%	0.85%	-5.14%	-91.21%	-88.27%	
351260	NORTHWEST IOWA TEL CO INC	12.31%	17.85%	-4.70%	0.00%	0.00%	
351261	NORTHWEST TEL. COOP.	-4.06%	1.32%	-5.31%	-33.98%	-11.97%	
351262	NORWAY RURAL TELEPHONE COMPANY	-10.98%	-6.60%	-4.70%	0.00%	0.00%	
351263	OGDEN TELEPHONE COMPANY - IA	-2.29%	2.53%	-4.70%	0.00%	0.00%	
351264	OLIN TELEPHONE CO INC.	-3.79%	0.96%	-4.70%	0.00%	0.00%	
351265	ONSLow COOP TELEPHONE ASSN.	-4.38%	0.48%	-4.84%	-16.34%	11.55%	
351266	ORAN MUTUAL TELEPHONE COMPANY	-6.73%	-3.85%	-3.00%	-13.68%	15.09%	
351269	PALO COOP TEL. ASSN.	-6.17%	-3.22%	-3.05%	-57.72%	-43.63%	
351270	PALMER MUTUAL TELEPHONE CO.	-4.72%	0.00%	-4.72%	-57.46%	-43.28%	
351271	PANORA COOP TEL. ASSN. INC.	-2.21%	2.62%	-4.70%	0.00%	0.00%	
351273	PEOPLES TELEPHONE COMPANY - IA	-5.43%	-0.76%	-4.70%	0.00%	0.00%	
351274	POSTVILLE TELEPHONE COMPANY	-1.89%	2.95%	-4.70%	0.00%	0.00%	
351275	PRAIRIEBURG TELEPHONE COMPANY INC.	-4.14%	1.11%	-5.19%	-15.98%	12.03%	
351276	PRESTON TELEPHONE COMPANY	-2.95%	1.84%	-4.70%	0.00%	0.00%	
351277	RADCLIFFE TELEPHONE CO INC.	-0.97%	3.91%	-4.70%	0.00%	0.00%	
351278	READLYN TELEPHONE COMPANY	-2.85%	1.94%	-4.70%	0.00%	0.00%	
351280	RINGSTED TELEPHONE COMPANY	-2.14%	2.68%	-4.70%	0.00%	0.00%	
351282	ROCKWELL COOP TELEPHONE ASSN.	-4.28%	0.90%	-5.13%	-45.09%	-26.78%	
351283	ROYAL TEL. CO.	-3.65%	2.63%	-6.12%	0.00%	0.00%	
351284	RUTHVEN TEL. EXCH. CO.	-9.74%	-5.29%	-4.70%	0.00%	0.00%	
351285	SAC COUNTY MUTUAL TEL. CO.	-4.70%	0.00%	-4.70%	0.00%	0.00%	
351291	SCHALLER TEL. CO.	-3.93%	1.96%	-5.77%	0.00%	0.00%	

TABLE 3.5

National Exchange Carrier Association  
Universal Service Fund  
Individual Study Areas  
Percentage Changes from 1986 to 1987

STUDY AREA CODE	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND AFTER FULL TRANSITION	UNIVERSAL SERVICE FUND APPLICABLE TO LATER YEAR
IOWA (CONT.)						
351292	SEARSBORO TEL. CO.	-1.77%	4.90%	-6.36%	-13.41%	15.45%
351293	SHARON TEL. CO.	-3.74%	2.77%	-6.34%	0.00%	0.00%
351294	SCRANTON TEL. CO.	-8.05%	-3.52%	-4.70%	0.00%	0.00%
351295	SHELL ROCK TEL. CO.	-1.23%	3.64%	-4.70%	0.00%	0.00%
351297	HEART OF IOWA TELEPHONE COOP	-3.48%	2.48%	-5.82%	-29.96%	-6.61%
351298	SOUTH SLOPE COOP TEL. CO.	-1.11%	3.77%	-4.70%	0.00%	0.00%
351301	SOUTHWEST TEL. EXCH., INC.	-4.24%	0.92%	-5.11%	-17.94%	9.41%
351302	SPRINGVILLE COOP TEL. ASSN.	-0.77%	4.13%	-4.70%	0.00%	0.00%
351303	COOPERATIVE TELEPHONE EXCHANGE	-3.40%	2.81%	-6.04%	-51.88%	-35.84%
351304	SWISHER TEL. CO.	-0.63%	4.27%	-4.70%	0.00%	0.00%
351305	STRATFORD MUTUAL TEL. CO.	-0.33%	4.59%	-4.70%	0.00%	0.00%
351306	SULLY TEL. ASSOC.	-1.63%	3.22%	-4.70%	0.00%	0.00%
351307	SUPERIOR TEL. COOP.	-4.43%	0.57%	-4.97%	-15.17%	13.10%
351308	TEMPLETON TELEPHONE COMPANY	-4.34%	0.91%	-5.20%	-78.13%	-70.84%
351309	TERRIL TELEPHONE COMPANY	-6.19%	-3.68%	-2.60%	0.00%	0.00%
351310	TITONKA TELEPHONE COMPANY	-4.87%	-0.18%	-4.70%	0.00%	0.00%
351316	UNITED FARMERS TELEPHONE COMPANY	-5.77%	-2.29%	-3.56%	-14.11%	14.52%
351317	UNITED TELEPHONE CO. OF IOWA	-4.95%	2.08%	-6.89%	0.00%	0.00%
351319	VAN BUREN TELEPHONE CO INC.	5.26%	3.14%	2.06%	ERR	ERR
351320	VAN HORNE COOP TELEPHONE CO.	-0.45%	4.73%	-4.95%	0.00%	0.00%
351322	VENTURA TELEPHONE CO. INC.	-3.29%	1.48%	-4.70%	0.00%	0.00%
351324	VILLISCA FARMERS TELEPHONE CO.	-3.01%	1.78%	-4.70%	0.00%	0.00%
351326	WALNUT TELEPHONE COMPANY	-2.03%	2.80%	-4.70%	0.00%	0.00%
351327	WEBB-DICKENS TELEPHONE CORPORATION	13.43%	-4.16%	18.35%	ERR	ERR
351328	WEBSTER-CALHOUN COOP TELEPHONE ASSN.	-4.47%	0.43%	-4.87%	-28.57%	-4.75%
351329	WELLMAN COOP TELEPHONE ASSN.	12.46%	-0.64%	13.18%	0.00%	0.00%
351330	WEST BRANCH TEL CO	MERGED INTO 351332 WEST LIBERTY TEL. CO.				
351331	WEST IOWA TELEPHONE COMPANY	-0.51%	4.39%	-4.70%	0.00%	0.00%
351332	WEST LIBERTY TELEPHONE COMPANY	-48.32%	-45.77%	-4.70%	0.00%	0.00%
351334	WESTERN IOWA TELEPHONE ASSN.	-3.98%	1.70%	-5.58%	-100.00%	-100.00%
351335	WESTSIDE INDP. TELEPHONE COMPANY	-3.72%	2.39%	-5.96%	-100.00%	-100.00%
351336	WILTON TELEPHONE COMPANY	-2.67%	2.13%	-4.70%	0.00%	0.00%
351337	WINNEBAGO COOP TELEPHONE ASSN - IA	-3.02%	4.17%	-6.91%	0.00%	0.00%
351341	SCHUYLER TELEPHONE COMPANY - IA	-2.33%	2.49%	-4.70%	0.00%	0.00%
351342	WOOLSTOCK MUT. TELEPHONE ASSN.	-4.95%	-0.38%	-4.59%	-23.24%	2.34%
351343	WYOMING MUTUAL TELEPHONE COMPANY	-2.68%	2.12%	-4.70%	0.00%	0.00%
351344	PRAIRIE TELEPHONE COMPANY INC.	-3.19%	3.34%	-6.32%	-61.38%	-48.51%
351346	ACE TELEPHONE ASSOCIATION- IOWA	-10.46%	4.31%	-14.16%	-100.00%	-100.00%
351405	HILLS TEL. CO., INC.- IA	-3.80%	2.28%	-5.94%	0.00%	0.00%
351424	MABEL COOPERATIVE TELEPHONE CO. IA	-3.51%	2.36%	-5.74%	-30.70%	-7.60%
351888	GRAND RIVER MUTUAL TEL CORP - IA	1.17%	-2.37%	3.63%	42.97%	90.63%
355141	NORTHWESTERN BELL-IOWA	2.97%	0.29%	2.68%	0.00%	0.00%
TOTAL:	KANSAS	6.15%	0.75%	5.37%	13.74%	51.65%
411741	ASSARIA TELEPHONE EXCHANGE INC.	2.42%	-0.94%	3.39%	28.73%	71.64%
411746	BLUE VALLEY TELEPHONE COMPANY	-7.59%	0.76%	-8.29%	-61.52%	-48.69%
411756	COLUMBUS TELEPHONE COMPANY	-1.15%	3.72%	-4.70%	0.00%	0.00%
411758	COUNCIL GROVE TEL. CO.	-3.53%	1.23%	-4.70%	0.00%	0.00%
411761	CUNNINGHAM TELEPHONE CO. INC.	3.91%	-0.53%	4.46%	17.35%	56.47%
411764	ELKHART TELEPHONE COMPANY INC.	18.28%	3.00%	14.83%	0.00%	0.00%
411777	GOLDEN BELT TELEPHONE ASSN. INC.	-12.54%	-0.70%	-11.93%	-40.60%	-20.80%
411778	GORHAM TELEPHONE COMPANY INC.	-3.84%	1.39%	-5.15%	-12.53%	16.63%
411780	HAVILAND TELEPHONE COMPANY INC.	-0.95%	-1.98%	1.05%	33.89%	78.51%
411781	H & B COMMUNICATIONS INC.	32.41%	-1.04%	33.80%	118.48%	191.31%
411782	HOME TELEPHONE COMPANY INC.	23.00%	0.00%	23.00%	82.16%	142.88%
411785	J. B. N. TELEPHONE COMPANY INC.	3.83%	0.62%	3.19%	24.80%	66.40%
411788	KANOKLA TEL. ASSOC. INC.- KS	-5.07%	5.24%	-9.80%	-26.78%	-2.38%
411789	KANSAS STATE TELEPHONE COMPANY	-2.91%	1.08%	-3.95%	0.00%	0.00%
411790	CONTEL OF KANSAS, INC	5.91%	4.78%	1.08%	9.25%	45.67%

TABLE 3.5

National Exchange Carrier Association  
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Percentage Changes from 1986 to 1987

STUDY AREA CODE	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND AFTER FULL TRANSITION	UNIVERSAL SERVICE FUND APPLICABLE TO LATER YEAR
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KANSAS (CONT.)						
411791	LA HARPE TELEPHONE COMPANY INC.	-4.62%	0.30%	-4.90%	-84.86%	-79.81%
411801	MADISON TEL. CO. INC.- KS	24.74%	0.40%	24.24%	59.72%	112.97%
411807	MOKAN DIAL, INC.- KS	-1.94%	5.79%	-7.30%	-100.00%	-100.00%
411808	MOUNDRIDGE TEL. CO.	13.19%	3.82%	9.03%	30.59%	74.12%
411809	MUTUAL TELEPHONE COMPANY	-3.39%	3.53%	-6.68%	0.00%	0.00%
411814	PEOPLES MUTUAL TEL. CO.-KS	0.33%	0.10%	0.23%	4.61%	39.48%
411817	PIONEER TELEPHONE ASSOCIATION INC.	-22.31%	2.22%	-24.00%	0.00%	0.00%
411818	CRAW-KAN TELEPHONE COOP INC- KS	1.67%	0.32%	1.35%	227.20%	336.27%
411820	RAINBOW TEL COOPERATIVE ASSN INC.	27.87%	0.34%	27.44%	ERR	ERR
411826	RURAL TEL. SERVICE CO., INC.	-4.22%	3.69%	-7.63%	-13.39%	15.48%
411827	S & T TEL. COOP. ASSN.	-6.03%	-0.13%	-5.91%	-9.11%	21.18%
411829	S & A TEL. CO., INC.	-12.40%	-0.88%	-11.62%	-95.11%	-93.48%
411831	SOUTH CENTRAL TEL. ASSN. INC.-KS	38.12%	-5.42%	46.03%	ERR	ERR
411833	SOUTHERN KANSAS TEL. CO., INC.	2.50%	-4.05%	6.83%	83.88%	145.17%
411835	SUNFLOWER TEL. CO., INC.	10.20%	-1.87%	12.30%	27.66%	70.21%
411839	TRI-COUNTY TEL. ASSN. INC.-KS	6.68%	-2.50%	9.42%	146.70%	228.93%
411840	TWIN VALLEY TEL. INC.-KS	1.96%	0.47%	1.48%	5.96%	41.28%
411841	UNITED TELEPHONE ASSN. INC.	40.95%	5.77%	33.26%	499.39%	699.18%
411842	UNITED TELEPHONE CO OF KS	1.46%	1.94%	-0.47%	11.53%	48.70%
411845	WAMEGO TELEPHONE COMPANY INC.	-11.24%	-0.06%	-11.19%	0.00%	0.00%
411847	THE WHEAT STATE TEL. CO. INC.	19.90%	5.17%	14.00%	53.44%	104.58%
411849	WILSON TELEPHONE COMPANY INC.	9.92%	-3.71%	14.16%	69.50%	126.00%
411852	ZENDA TELEPHONE COMPANY INC.	6.08%	-4.20%	10.73%	20.04%	60.05%
412030	TOTAH TELEPHONE CO. INC.	-4.81%	-1.59%	-3.27%	-6.26%	24.98%
415214	SOUTHWESTERN BELL-KANSAS	7.15%	0.49%	6.63%	0.00%	0.00%
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TOTAL:	KENTUCKY	6.84%	4.97%	1.78%	18.73%	58.31%
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260396	BALLARD RURAL TEL. COOP. CORP. INC.	0.53%	5.49%	-4.70%	0.00%	0.00%
260398	BRANDENBURG TELEPHONE COMPANY, INC.	-0.35%	4.56%	-4.70%	0.00%	0.00%
260401	DUO COUNTY TEL. COOP. INC.	-1.34%	3.53%	-4.70%	0.00%	0.00%
260402	ALLTEL KENTUCKY, INC.	4.63%	9.79%	-4.70%	0.00%	0.00%
260406	FOOTHILLS RURAL TEL. COOP. CORP. INC.	-1.29%	3.58%	-4.70%	0.00%	0.00%
260407	GTE SOUTH INC. - KENTUCKY	13.97%	4.65%	8.91%	153.78%	238.37%
260408	HAROLD TELEPHONE CO INC.	-2.24%	2.58%	-4.70%	0.00%	0.00%
260410	CONTINENTAL TELEPHONE CO OF KENTUCKY	2.43%	4.31%	-1.81%	1.31%	35.08%
260411	LESLIE COUNTY TEL. CO. INC.	-1.78%	3.07%	-4.70%	0.00%	0.00%
260412	LEWISPORT TEL. CO. INC.	-1.96%	2.87%	-4.70%	0.00%	0.00%
260413	LOGAN TELEPHONE COOPERATIVE, INC.	0.20%	5.14%	-4.70%	0.00%	0.00%
260414	MOUNTAIN RURAL TEL. COOP. CORP. INC.	-1.62%	3.23%	-4.70%	0.00%	0.00%
260415	PEOPLES RURAL TEL. COOP. CORP.	-0.35%	4.56%	-4.70%	0.00%	0.00%
260417	SALEM TEL. CO.	-3.27%	1.50%	-4.70%	0.00%	0.00%
260418	SOUTH CENTRAL RURAL TEL. COOP. CORP. INC.	-1.86%	2.98%	-4.70%	0.00%	0.00%
260419	THACKER/GRIGSBY TEL. CO., INC.	-1.63%	3.22%	-4.70%	0.00%	0.00%
260421	WEST KY. RURAL TEL. COOP. CORP. INC.	-1.65%	3.20%	-4.70%	0.00%	0.00%
265061	CINCINNATI BELL-KENTUCKY	7.37%	3.02%	4.23%	0.00%	0.00%
265182	SOUTH CENTRAL BELL-KENTUCKY	5.54%	5.52%	0.02%	66.23%	121.63%
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TOTAL:	LOUISIANA	6.21%	2.54%	3.58%	34.89%	79.86%
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270422	ATHENS TELEPHONE COMPANY	13.90%	-0.72%	14.72%	26.05%	68.07%
270423	CENTRAL LOUISIANA TELEPHONE COMPANY	14.62%	0.90%	13.60%	41.98%	89.31%
270424	COASTAL TELEPHONE & ELECTRONICS CORP.	22.21%	0.20%	21.96%	334.80%	479.74%
270425	CAMERON TEL. CO.- LA	-1.21%	-0.22%	-0.99%	-1.00%	32.00%
270426	CAMPTI-PLEASANT HILL TEL. COMPANY	-3.90%	2.28%	-6.04%	0.00%	0.00%
270427	CHATHAM TELEPHONE COMPANY, INC.	-30.63%	3.66%	-33.08%	-100.00%	-100.00%
270428	DELCAMBRE TELEPHONE COMPANY	-0.59%	4.31%	-4.70%	0.00%	0.00%
270429	EAST ASCENSION TELEPHONE COMPANY	9.72%	3.62%	5.88%	49.35%	99.14%
270430	ELIZABETH TELEPHONE COMPANY INC	-15.17%	0.18%	-15.32%	-23.74%	1.68%
270431	CADDOAN TELEPHONE COMPANY	6.85%	-0.26%	7.13%	44.82%	93.09%

TABLE 3.5

National Exchange Carrier Association  
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STUDY AREA CODE	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND AFTER FULL TRANSITION	UNIVERSAL SERVICE FUND APPLICABLE TO LATER YEAR
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LOUISIANA (CONT.)						
270432	KAPLAN TELEPHONE COMPANY	-4.50%	0.21%	-4.70%	0.00%	0.00%
270433	LAFORCHE TEL. CO.	7.11%	0.94%	6.12%	25.65%	67.53%
270434	EVANGELINE TELEPHONE COMPANY	4.69%	0.71%	3.95%	25.64%	67.52%
270435	NORTHEAST LOUISIANA TEL. CO. INC.	2.91%	2.52%	0.38%	4.33%	39.11%
270436	NORTHWEST LOUISIANA TEL. CO. INC.	5.30%	0.20%	5.09%	33.21%	77.61%
270437	PLAIN DEALING TELEPHONE COMPANY	44.53%	0.07%	44.43%	156.40%	241.87%
270438	RESERVE TELEPHONE COMPANY	-2.46%	2.35%	-4.70%	0.00%	0.00%
270439	RINGGOLD TEL. CO., INC.	2.46%	3.00%	-0.53%	0.00%	0.00%
270440	CENTURY TELEPHONE COMPANY INC.	18.76%	1.86%	16.59%	34.03%	78.71%
270441	STAR TEL. CO., INC.	4.17%	0.56%	-4.70%	0.00%	0.00%
270442	LOUISIANA WESTERN TELEPHONE COMPANY	23.71%	3.34%	19.72%	40.85%	87.80%
270443	UNITED TELEPHONE COMPANY OF LOUISIANA	7.43%	8.30%	-0.81%	7.78%	43.70%
275183	SOUTH CENTRAL BELL-LOUISIANA	6.10%	2.62%	3.39%	46.88%	95.84%
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TOTAL:	MAINE	-1.77%	4.02%	-5.57%	-21.57%	4.57%
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100002	BRYANT POND TEL. CO.	-3.71%	2.58%	-6.14%	0.00%	0.00%
100003	LINCOLNVILLE TEL. CO.	14.38%	1.73%	12.43%	137.65%	216.87%
100004	CHINA TEL. CO.	1.42%	3.66%	-2.17%	-92.67%	-90.22%
100005	COBOSSEECONTEE TEL. CO.	1.56%	6.57%	-4.70%	0.00%	0.00%
100007	ISLAND TEL. CO.	-4.99%	0.00%	-4.99%	-7.97%	22.71%
100010	HAMPDEN TEL. CO.	-17.60%	13.16%	-27.18%	-100.00%	-100.00%
100011	HARTLAND & ST. ALBANS TEL. CO.	11.77%	-2.77%	14.96%	37.57%	83.42%
100014	CONTINENTAL TEL. CO OF MAINE	-0.92%	16.36%	-14.85%	-36.44%	-15.26%
100015	COMMUNITY SERVICE TEL. CO.	-1.09%	3.79%	-4.70%	0.00%	0.00%
100019	OXFORD COUNTY TEL. & TELE. CO.	-1.07%	4.58%	-5.40%	0.00%	0.00%
100020	PINE TREE TEL. & TELE. CO.	5.36%	10.56%	-4.70%	0.00%	0.00%
100022	SACO RIVER TEL. & TELE. CO.	7.10%	12.38%	-4.70%	0.00%	0.00%
100024	SOMERSET TEL. CO.	-7.26%	5.40%	-12.01%	0.00%	0.00%
100025	STANDISH TEL. CO.	19.08%	-6.26%	27.04%	920.94%	1261.25%
100027	UNION RIVER TEL. CO.	18.87%	9.24%	8.81%	34.60%	79.47%
100029	UNITY TEL. CO.	-1.19%	5.97%	-6.76%	-27.08%	-2.77%
100031	WARREN TEL. CO.	-3.96%	4.17%	-7.80%	0.00%	0.00%
100034	WEST PENOBSCOT TEL. & TEL. CO.	-1.67%	5.49%	-6.79%	-79.12%	-72.15%
105111	NEW ENGLAND TEL.-MAINE	-2.24%	3.20%	-5.27%	0.00%	0.00%
-----						
TOTAL:	MARYLAND	7.87%	4.39%	3.34%	0.00%	0.00%
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180216	ARMSTRONG TELEPHONE COMPANY OF MD	-2.51%	8.38%	-10.05%	0.00%	0.00%
185030	C & P TELEPHONE COMPANY OF MARYLAND	7.89%	4.38%	3.36%	0.00%	0.00%
-----						
TOTAL:	MASSACHUSETTS	-1.82%	1.24%	-3.03%	0.00%	0.00%
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110036	GRANBY TEL. & TELE. CO - MA	-2.52%	2.28%	-4.70%	0.00%	0.00%
110037	RICHMOND TEL. CO.	-2.86%	1.93%	-4.70%	0.00%	0.00%
115112	NEW ENGLAND TEL.-MA	-1.82%	1.24%	-3.02%	0.00%	0.00%
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TOTAL:	MICHIGAN	-7.46%	1.14%	-8.50%	-29.93%	-6.57%
-----						
310669	ALLENDALE TELEPHONE COMPANY	3.21%	8.30%	-4.70%	0.00%	0.00%
310671	CENTURY TEL. MIDWEST (AU GRES)	-0.98%	3.91%	-4.70%	0.00%	0.00%
310672	AUGUSTA TEL. CO.	1.66%	6.67%	-4.70%	0.00%	0.00%
310675	BARAGA TELEPHONE COMPANY	6.19%	11.43%	-4.70%	0.00%	0.00%
310676	BARRY COUNTY TELEPHONE COMPANY	-1.38%	3.49%	-4.70%	0.00%	0.00%
310677	ISLAND TELEPHONE COMPANY	-3.73%	2.10%	-5.71%	-37.62%	-16.83%
310678	BLANCHARD TELEPHONE ASSOC. INC.	-26.05%	0.22%	-26.21%	-100.00%	-100.00%
310679	BLOOMINGDALE TELEPHONE COMPANY	21.23%	-1.11%	22.58%	161.21%	248.28%
310680	CHIPPewa COUNTY TELEPHONE COMPANY	2.11%	-8.03%	11.03%	91.07%	154.76%
310681	ALLTEL MICHIGAN INC.	8.71%	3.00%	5.54%	0.00%	0.00%
310682	C, C & S TELCO, INC. - MICHIGAN	11.92%	6.66%	4.93%	0.00%	0.00%



TABLE 3.5

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MICHIGAN (CONT.)						
310683	CARR TELEPHONE COMPANY	-0.95%	1.09%	-2.02%	0.00%	0.00%
310684	CENTRAL TEL CO	MERGED IN 1988, 1987 DATA MISSING				
310685	CHATHAM TELEPHONE COMPANY - MI	-1.38%	0.05%	-1.43%	0.00%	0.00%
310687	CLAYTON TELEPHONE COMPANY	-5.43%	2.96%	-8.14%	-26.55%	-2.07%
310688	CLIMAX TELEPHONE COMPANY	-14.84%	-10.64%	-4.70%	0.00%	0.00%
310691	DEERFIELD FARMERS TELEPHONE COMPANY	-1.40%	3.46%	-4.70%	0.00%	0.00%
310692	DRENTH TELEPHONE COMPANY	-1.72%	3.13%	-4.70%	0.00%	0.00%
310694	FARMERS MUTUAL TEL CO OF CHAPIN	-4.21%	1.21%	-5.35%	-83.58%	-78.11%
310695	GTE NORTH INC. - MICHIGAN	-1.32%	2.28%	-3.52%	0.00%	0.00%
310698	HADLEY TEL CO	MERGED IN 1988, 1987 DATA MISSING				
310699	HICKORY TELEPHONE COMPANY	0.23%	3.57%	-3.23%	0.00%	0.00%
310702	CENTURY TELEPHONE OF MICHIGAN, INC.	-1.75%	15.90%	-15.23%	-64.13%	-52.17%
310703	KALEVA TELEPHONE COMPANY	-3.16%	3.94%	-6.84%	0.00%	0.00%
310704	ACE TELEPHONE CO. OF MI INC.	3.93%	6.93%	-2.81%	1.20%	34.94%
310705	KINGSLEY TELEPHONE COMPANY	3.13%	8.21%	-4.70%	0.00%	0.00%
310708	LENNON TELEPHONE COMPANY	-1.18%	3.69%	-4.70%	0.00%	0.00%
310711	MIDWAY TELEPHONE COMPANY	7.09%	0.84%	6.19%	18.73%	58.30%
310713	HIAWATHA TELEPHONE COMPANY	1.96%	12.16%	-9.09%	-31.85%	-9.14%
310714	OGDEN TELEPHONE COMPANY	-3.97%	1.57%	-5.45%	-25.60%	-0.81%
310717	ONTONAGON COUNTY TELEPHONE CO.	1.03%	0.25%	0.78%	0.00%	0.00%
310720	PENINSULA TELEPHONE COMPANY - MI	-5.45%	-0.79%	-4.70%	0.00%	0.00%
310721	PIGEON TELEPHONE COMPANY	4.58%	3.51%	1.03%	18.94%	58.59%
310725	SAND CREEK TEL. CO.	-2.71%	2.08%	-4.70%	0.00%	0.00%
310726	SHIAWASSEE TELEPHONE COMPANY	-0.15%	4.78%	-4.70%	0.00%	0.00%
310728	SPRINGPORT TEL. CO.	-0.08%	3.78%	-3.72%	0.00%	0.00%
310732	UPPER PENINSULA TEL. CO.	17.85%	6.87%	10.28%	40.63%	87.50%
310734	WALDRON TELEPHONE COMPANY	-15.10%	1.11%	-16.03%	-100.00%	-100.00%
310735	WESTPHALIA TELEPHONE COMPANY	-16.37%	3.38%	-19.11%	-100.00%	-100.00%
310737	WINN TELEPHONE COMPANY	14.49%	7.37%	6.63%	0.00%	0.00%
310738	WOLVERINE TELEPHONE COMPANY	10.69%	2.33%	8.17%	0.00%	0.00%
315090	MICHIGAN BELL TEL CO	-8.52%	1.22%	-9.62%	0.00%	0.00%
TOTAL:	MINNESOTA	5.44%	2.05%	3.32%	-26.11%	-1.48%
361140	CONTEL OF MINNESOTA, INC.	-1.20%	5.19%	-6.07%	-34.02%	-12.03%
361186	GTE NORTH INC. - MINNESOTA	-0.40%	0.43%	-0.83%	0.00%	0.00%
361337	WINNEBAGO COOP TELEPHONE ASSOC - MN	-2.54%	3.82%	-6.12%	-17.98%	9.36%
361346	ACE TELEPHONE ASSOCIATION - MN	2.50%	4.54%	-1.95%	0.00%	0.00%
361347	ALBANY MUTUAL TELEPHONE ASSN. INC.	-8.96%	-4.47%	-4.70%	0.00%	0.00%
361350	ARVIG TELEPHONE COMPANY	-4.16%	3.48%	-7.38%	0.00%	0.00%
361353	CITY OF BARNESVILLE TELEPHONE CO	-11.85%	-7.50%	-4.70%	0.00%	0.00%
361356	BENTON COOPERATIVE TELEPHONE CO.	-1.09%	3.79%	-4.70%	0.00%	0.00%
361357	BLACKDUCK TELEPHONE COMPANY	-21.39%	1.83%	-22.81%	-100.00%	-100.00%
361358	BLUE EARTH VALLEY TELEPHONE CO.	6.69%	11.96%	-4.70%	0.00%	0.00%
361362	BRIDGEWATER TELEPHONE COMPANY	16.57%	8.42%	7.51%	188.66%	284.88%
361365	CALLAWAY TELEPHONE COMPANY	-1.76%	5.37%	-6.77%	-20.61%	5.85%
361367	CENTRAL TELEPHONE COMPANY - MN	-0.24%	7.19%	-6.93%	0.00%	0.00%
361370	CLARA CITY TELEPHONE EXCH. CO.	9.65%	3.04%	6.41%	34.22%	78.96%
361372	CLEMENTS TELEPHONE COMPANY	-4.71%	0.00%	-4.71%	-13.39%	15.48%
361373	CONSOLIDATED TELEPHONE COMPANY- MN	19.47%	5.05%	13.72%	0.00%	0.00%
361374	ARROWHEAD COMMUNICATIONS CORP.	-4.94%	3.77%	-8.39%	-19.12%	7.85%
361375	MID-COMMUNICATIONS INC.	-1.21%	3.67%	-4.70%	0.00%	0.00%
361377	DANUBE TELEPHONE COMPANY	-3.92%	2.07%	-5.87%	0.00%	0.00%
361379	DEER RIVER TELEPHONE CO.	13.57%	-1.76%	15.60%	307.11%	442.81%
361380	DELAVAN TELEPHONE COMPANY	0.23%	11.29%	-9.94%	-100.00%	-100.00%
361381	DUNNELL TELEPHONE COMPANY INC.	-5.52%	-1.52%	-4.07%	-21.19%	5.09%
361383	EAGLE VALLEY TELEPHONE COMPANY	-16.48%	-0.16%	-16.35%	-100.00%	-100.00%
361384	EASTON TELEPHONE COMPANY	-5.59%	-1.69%	-3.97%	-16.87%	10.84%
361385	EAST OTTER TAIL TELEPHONE CO.	4.68%	2.87%	1.76%	0.00%	0.00%
361386	ECKLES TELEPHONE COMPANY	1.05%	6.03%	-4.70%	0.00%	0.00%



TABLE 3.5

National Exchange Carrier Association  
 Universal Service Fund  
 Individual Study Areas  
 Percentage Changes from 1986 to 1987

STUDY AREA CODE	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND AFTER FULL TRANSITION	UNIVERSAL SERVICE FUND APPLICABLE TO LATER YEAR
MINNESOTA (CONT.)						
361387	EMILY COOPERATIVE TELEPHONE CO.	12.29%	3.18%	8.83%	0.00%	0.00%
361389	FARMERS MUTUAL TEL CO - BELLINGHAM	-3.79%	1.86%	-5.55%	-34.79%	-13.05%
361390	FEDERATED TELEPHONE COOPERATIVE	-4.09%	1.25%	-5.27%	-29.93%	-6.58%
361391	FELTON TELEPHONE COMPANY INC.	-5.30%	-1.14%	-4.20%	-17.12%	10.51%
361395	GARDEN VALLEY TELEPHONE COMPANY	-0.07%	0.56%	-0.62%	0.00%	0.00%
361396	GARDONVILLE COOPERATIVE TEL. ASSN.	5.11%	10.29%	-4.70%	0.00%	0.00%
361399	GRANADA TEL. CO.	13.69%	-1.17%	15.04%	ERR	ERR
361401	HALSTAD TELEPHONE COMPANY	109.47%	-2.27%	114.33%	ERR	ERR
361403	HANCOCK TELEPHONE COMPANY- MN	-4.27%	0.45%	-4.70%	0.00%	0.00%
361404	HARMONY TELEPHONE COMPANY	6.38%	6.44%	-0.06%	0.00%	0.00%
361405	HILLS TELEPHONE CO. INC. - MN	-2.97%	3.53%	-6.28%	-29.34%	-5.79%
361407	HOHMAN TELEPHONE COMPANY	-3.07%	1.71%	-4.70%	0.00%	0.00%
361408	HOME TEL. CO. - MN	-7.49%	-2.93%	-4.70%	0.00%	0.00%
361409	HUTCHINSON TELEPHONE COMPANY	-0.71%	4.19%	-4.70%	0.00%	0.00%
361410	JOHNSON TELEPHONE COMPANY	6.66%	4.69%	1.88%	9.58%	46.10%
361412	KASSON & MANTORVILLE TEL. CO.	0.05%	4.99%	-4.70%	0.00%	0.00%
361413	K M P TELEPHONE COMPANY	0.11%	5.05%	-4.70%	0.00%	0.00%
361414	LAKEDALE TELEPHONE COMPANY	6.03%	2.21%	3.74%	0.00%	0.00%
361419	LISMORE COOPERATIVE TELEPHONE CO.	-3.78%	2.15%	-5.81%	-78.21%	-70.95%
361422	LONSDALE TELEPHONE COMPANY	0.17%	5.11%	-4.70%	0.00%	0.00%
361423	LOWRY TELEPHONE COMPANY	-1.39%	3.47%	-4.70%	0.00%	0.00%
361424	MABEL COOPERATIVE TELEPHONE CO. - MN	-3.07%	3.97%	-6.77%	-100.00%	-100.00%
361425	MADELIA TELEPHONE COMPANY	26.83%	-0.33%	27.25%	0.00%	0.00%
361426	MANCHESTER-HARTLAND TELEPHONE CO.	-3.14%	3.27%	-6.21%	-36.09%	-14.78%
361427	MANKATO CITIZENS TELEPHONE CO.	-1.50%	3.36%	-4.70%	0.00%	0.00%
361430	MELROSE TELEPHONE COMPANY	16.44%	22.18%	-4.70%	0.00%	0.00%
361431	MIDWEST TEL. CO.	-2.62%	2.18%	-4.70%	0.00%	0.00%
361433	MID STATE TELEPHONE COMPANY	14.57%	1.35%	13.05%	0.00%	0.00%
361437	MINNESOTA LAKE TELEPHONE COMPANY	-3.56%	1.20%	-4.70%	0.00%	0.00%
361439	MINNESOTA VALLEY TEL. CO. INC.	-2.11%	5.79%	-7.47%	-77.05%	-69.40%
361440	CANNON VALLEY TELECOM, INC.	-4.30%	0.90%	-5.15%	0.00%	0.00%
361442	NEW ULM TELECOM, INC.	-1.55%	4.99%	-6.24%	0.00%	0.00%
361443	NORMAN COUNTY TELEPHONE CO. INC.	-11.48%	0.39%	-11.82%	-100.00%	-100.00%
361445	NORTHLAND TELEPHONE COMPANY	-11.82%	-3.77%	-8.37%	0.00%	0.00%
361448	OSAKIS TELEPHONE COMPANY	7.40%	12.69%	-4.70%	0.00%	0.00%
361450	PARK REGION MUTUAL TEL. CO.	21.66%	28.88%	-5.60%	0.00%	0.00%
361451	PAUL BUNYAN RURAL TEL. COOP.	0.52%	2.46%	-1.89%	-1.84%	30.88%
361453	PEOPLES TELEPHONE COMPANY - MN	-3.84%	2.35%	-6.05%	0.00%	0.00%
361454	PINE ISLAND TELEPHONE COMPANY	-3.12%	1.65%	-4.70%	0.00%	0.00%
361456	UNITED TELEPHONE CO OF MINN	2.26%	7.59%	-4.95%	-54.79%	-39.72%
361472	REDWOOD COUNTY TEL. CO.	-3.75%	0.99%	-4.70%	0.00%	0.00%
361473	ROCK DELL TEL. CO.	-2.61%	5.18%	-7.40%	0.00%	0.00%
361474	ROTHSAY TELEPHONE COMPANY INC.	-1.88%	2.96%	-4.70%	0.00%	0.00%
361475	RUNESTONE TEL. ASSN.	-5.19%	-1.21%	-4.03%	0.00%	0.00%
361476	SACRED HEART TEL. CO.	-4.33%	0.38%	-4.70%	0.00%	0.00%
361478	SANBORN TELEPHONE CO					
361479	SCOTT RICE TEL. CO.	2.90%	7.98%	-4.70%	0.00%	0.00%
361482	SHERBURNE COUNTY RURAL TEL. CO.	13.35%	10.60%	2.49%	0.00%	0.00%
361483	SLEEPY EYE TEL. CO.	12.44%	1.10%	11.21%	ERR	ERR
361485	SPRING GROVE COOP TEL CO	5.25%	10.44%	-4.70%	0.00%	0.00%
361487	STARBUCK TEL. CO.	-36.60%	-14.95%	-25.46%	-100.00%	-100.00%
361491	TWIN VALLEY-ULEN TEL CO INC.	23.86%	-0.07%	23.95%	ERR	ERR
361494	UPSALA COOPERATIVE TELEPHONE ASSN.	-1.03%	3.86%	-4.70%	0.00%	0.00%
361495	VALLEY TEL. CO.-MN	-3.96%	0.78%	-4.70%	0.00%	0.00%
361499	CROSSLAKE TELEPHONE COMPANY	13.33%	-14.78%	32.99%	0.00%	0.00%
361500	NORTHERN TELEPHONE COMPANY OF MN	5.65%	14.81%	-7.98%	-0.07%	33.25%
361501	WEST CENTRAL TELEPHONE ASSN.	-2.41%	2.41%	-4.70%	0.00%	0.00%
361502	WESTERN TELEPHONE COMPANY	-0.42%	4.55%	-4.75%	0.00%	0.00%
361505	WIKSTROM TELEPHONE COMPANY INC.	-2.30%	6.20%	-8.00%	0.00%	0.00%
361507	WINSTED TELEPHONE COMPANY	-2.01%	2.83%	-4.70%	0.00%	0.00%

TABLE 3.5

National Exchange Carrier Association  
Universal Service Fund  
Individual Study Areas  
Percentage Changes from 1986 to 1987

STUDY AREA CODE	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND AFTER FULL TRANSITION	UNIVERSAL SERVICE FUND APPLICABLE TO LATER YEAR
MINNESOTA (CONT.)						
361508	WINTHROP TEL. CO.	-1.56%	3.30%	-4.70%	0.00%	0.00%
361510	WOODSTOCK TELEPHONE COMPANY	-3.57%	2.16%	-5.62%	-22.96%	2.71%
361512	WOLVERTON TELEPHONE COMPANY	-4.41%	0.58%	-4.97%	-14.78%	13.62%
361515	ZUMBROTA TELEPHONE COMPANY	-1.64%	3.21%	-4.70%	0.00%	0.00%
361654	INTERSTATE TELECOMMUNICATIONS COOP.,	-4.77%	-0.07%	-4.70%	0.00%	0.00%
365142	NORTHWESTERN BELL-MINNESOTA	7.12%	1.10%	5.96%	0.00%	0.00%
TOTAL:	MISSISSIPPI	3.35%	6.19%	-2.67%	8.50%	44.67%
280446	BAY SPRINGS TELEPHONE COMPANY INC.	11.66%	2.94%	8.47%	28.39%	71.18%
280447	BRUCE TELEPHONE COMPANY - MS	-1.74%	3.11%	-4.70%	0.00%	0.00%
280448	CALHOUN CITY TEL. COMPANY INC.	2.29%	7.34%	-4.70%	0.00%	0.00%
280449	MYRTLE TELEPHONE COMPANY INC.	2.97%	8.05%	-4.70%	0.00%	0.00%
280451	DECATUR TELEPHONE CO INC- MS	6.10%	-3.16%	9.57%	0.00%	0.00%
280452	DELTA TELEPHONE COMPANY INC.	0.71%	3.85%	-3.02%	0.00%	0.00%
280453	ALLTEL MISSISSIPPI INC.	-4.51%	0.20%	-4.70%	0.00%	0.00%
280454	FRANKLIN TELEPHONE COMPANY INC - MS	9.55%	1.40%	8.04%	33.89%	78.51%
280455	FULTON TELEPHONE COMPANY INC.	-2.34%	2.48%	-4.70%	0.00%	0.00%
280456	GEORGETOWN TELE. CO., INC.	2.88%	13.46%	-9.33%	-19.21%	7.71%
280457	LAKESIDE TELEPHONE CO. (GLEN ALLAN)	-1.27%	8.07%	-8.64%	-100.00%	-100.00%
280458	HOME TELEPHONE COMPANY- OLIVE BRANCH	45.87%	27.43%	14.47%	73.79%	131.72%
280459	HUGHES TELEPHONE COMPANY	-1.69%	2.70%	-4.27%	-11.10%	18.54%
280460	MID-SOUTH TEL. COMPANY INC.	-0.34%	4.58%	-4.70%	0.00%	0.00%
280462	MOUND BAYOU TEL. & COMMUNICATIONS, INC	2.22%	7.27%	-4.70%	0.00%	0.00%
280464	NOXAPATER TELEPHONE COMPANY	8.69%	-8.52%	18.80%	185.71%	280.95%
280465	SHERWOOD TEL. CO., INC.	-2.20%	5.71%	-7.49%	-84.50%	-79.34%
280466	SLEDGE TEL. CO., INC.	-11.52%	5.64%	-16.25%	-100.00%	-100.00%
280467	SMITHVILLE TEL. CO.	-3.16%	1.61%	-4.70%	0.00%	0.00%
285184	SOUTH CENTRAL BELL-MISSISSIPPI	2.96%	6.27%	-3.11%	-4.17%	27.77%
TOTAL:	MISSOURI	1.29%	2.36%	-1.04%	28.91%	71.88%
421186	GTE NORTH INC. - MISSOURI	6.14%	-5.49%	12.30%	2063.20%	2784.26%
421206	IAMO TELEPHONE COMPANY - MO	-2.77%	3.97%	-6.48%	-38.68%	-18.23%
421759	CRAW-KAN TELEPHONE COOP INC - MO	-3.58%	2.45%	-5.88%	-60.24%	-46.99%
421807	MOKAN DIAL, INC.- MO	2.08%	4.61%	-2.42%	-3.75%	28.33%
421846	CONTINENTAL SYSTEMS OF MISSOURI	51.72%	-5.15%	59.96%	ERR	ERR
421859	BOURBEUSE TELEPHONE COMPANY	23.23%	7.43%	14.71%	ERR	ERR
421860	ALMA TELEPHONE COMPANY	-6.08%	-3.00%	-3.17%	-44.50%	-26.00%
421864	CHARITON VALLEY TELEPHONE CO.	-4.19%	1.26%	-5.38%	0.00%	0.00%
421865	CITIZENS TELEPHONE CO - MISSOURI	4.65%	0.12%	4.52%	0.00%	0.00%
421873	EASTERN MISSOURI TELEPHONE CO.	-0.86%	-0.28%	-0.58%	0.49%	33.99%
421874	ELLINGTON TELEPHONE COMPANY	-2.40%	4.43%	-6.55%	-25.08%	-0.11%
421876	FARBER TELEPHONE COMPANY	-6.64%	-3.67%	-3.09%	-12.92%	16.10%
421882	FIDELITY TELEPHONE COMPANY	14.54%	6.25%	7.80%	ERR	ERR
421885	ALLTEL MISSOURI INC.	15.32%	5.33%	9.49%	61.70%	115.60%
421886	GOODMAN TEL. CO.	21.95%	6.27%	14.75%	140.42%	220.55%
421887	GRANBY TEL CO - MISSOURI	-0.72%	4.18%	-4.70%	0.00%	0.00%
421888	GRAND RIVER MUTUAL TEL CORP - MO	26.25%	-0.24%	26.56%	ERR	ERR
421890	GREEN HILLS TELEPHONE CORP.	-4.39%	0.59%	-4.95%	-21.39%	4.82%
421893	CHOCTAW TELEPHONE COMPANY	-2.41%	5.85%	-7.81%	0.00%	0.00%
421900	KLM TEL. CO.	-4.00%	1.46%	-5.38%	-30.88%	-7.85%
421901	KINGDOM TELEPHONE COMPANY	5.16%	1.75%	3.35%	17.53%	56.71%
421904	MISSOURI TELEPHONE COMPANY	-12.37%	2.60%	-14.60%	-70.92%	-61.23%
421908	LE-RU TELEPHONE COMPANY	21.22%	3.10%	17.58%	35.34%	80.45%
421912	MCDONALD COUNTY TELEPHONE CO.	-1.54%	3.31%	-4.70%	0.00%	0.00%
421914	MARK TWAIN RURAL TELEPHONE CO.	-5.46%	-1.51%	-4.00%	-22.65%	3.13%
421917	MID-MISSOURI TELEPHONE CO.	-17.95%	-8.50%	-10.32%	-46.93%	-29.24%
421920	MILLER TELEPHONE COMPANY - MO	-14.60%	1.52%	-15.87%	-100.00%	-100.00%
421922	CONTEL OF MISSOURI, INC.	7.32%	5.08%	2.13%	12.25%	49.67%

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MISSOURI (CONT.)							
421927	NEW FLORENCE TELEPHONE CO.	-4.23%	1.19%	-5.36%	-98.76%	-98.35%	
421928	NEW LONDON TEL. CO.	34.77%	41.42%	-4.70%	0.00%	0.00%	
421929	HOLWAY TELEPHONE COMPANY	11.13%	2.17%	8.78%	29.40%	72.54%	
421931	NORTHEAST MISSOURI RURAL TEL. CO.	2.65%	0.79%	1.84%	5.99%	41.31%	
421932	LATHROP TELEPHONE COMPANY	3.16%	4.73%	-1.51%	0.00%	0.00%	
421934	ORCHARD FARM TELEPHONE COMPANY	4.35%	1.10%	3.21%	13.40%	51.20%	
421935	OREGON FARMERS MUTUAL TEL. CO.	-4.32%	0.40%	-4.70%	0.00%	0.00%	
421936	PEACE VALLEY TELEPHONE CO.	2.38%	14.47%	-10.56%	-41.39%	-21.85%	
421942	ROCK PORT TEL. CO.	-0.28%	4.64%	-4.70%	0.00%	0.00%	
421945	SENECA TEL. CO.	-21.45%	4.28%	-24.67%	-100.00%	-100.00%	
421949	STEELVILLE TEL. EXCH. INC.	-2.45%	2.36%	-4.70%	0.00%	0.00%	
421951	STOUTLAND TELEPHONE COMPANY	-20.35%	5.58%	-24.56%	-32.87%	-10.49%	
421957	UNITED TELEPHONE CO. OF MISSOURI	5.64%	7.02%	-1.30%	4.89%	39.85%	
421963	WEBSTER COUNTY TELEPHONE	4.45%	24.66%	-16.21%	-16.05%	11.93%	
421964	WHEELING TELEPHONE COMPANY	-12.00%	0.96%	-12.83%	-33.76%	-11.68%	
425213	SOUTHWESTERN BELL-MISSOURI	-1.73%	2.26%	-3.90%	0.00%	0.00%	
TOTAL:	MONTANA	-2.00%	1.20%	-3.16%	-6.39%	24.82%	
482235	BLACKFOOT TEL. COOPERATIVE INC.	8.30%	3.59%	4.54%	16.09%	54.79%	
482241	HOT SPRINGS TEL. CO.	8.13%	28.46%	-15.82%	-84.24%	-78.98%	
482242	INTERBEL TEL. COOPERATIVE INC.	-10.10%	6.75%	-15.79%	-29.37%	-5.83%	
482244	LINCOLN TEL. CO. INC.	-32.66%	5.58%	-36.22%	-75.60%	-67.47%	
482246	MID-RIVERS TEL. COOPERATIVE INC.	-10.44%	1.21%	-11.51%	-18.78%	8.29%	
482247	NEMONT TELEPHONE COOP.- MONTANA	0.74%	3.78%	-2.93%	-0.76%	32.32%	
482248	NORTHERN TEL. COOP INC.- MT	32.45%	-1.71%	34.75%	63.66%	118.21%	
482249	NORTHWESTERN TELEPHONE SYSTEMS, INC.	6.18%	3.76%	2.33%	42.73%	90.31%	
482250	PROJECT TEL. CO.	1.95%	3.58%	-1.58%	1.21%	34.95%	
482251	RANGE TEL. COOP INC.-MT	-7.25%	-7.53%	0.30%	-6.26%	24.99%	
482252	RONAN TEL. CO.	-0.35%	4.56%	-4.70%	0.00%	0.00%	
482254	SOUTHERN MONTANA TEL. CO.	8.39%	1.89%	6.39%	12.74%	50.32%	
482255	3-RIVERS TEL. COOPERATIVE INC.	1.12%	4.10%	-2.86%	-4.72%	27.04%	
482257	TRIANGLE TEL. COOPERATIVE ASSN. INC.	-5.51%	0.90%	-6.35%	-15.30%	12.93%	
482258	VALLEY RURAL TEL. COOP. ASSN.-MT	4.56%	7.04%	-2.32%	4.00%	38.66%	
482416	GTE NORTHWEST INC. - MONTANA	-16.80%	5.99%	-21.51%	-77.51%	-70.02%	
485104	MOUNTAIN BELL-MONTANA	-2.46%	0.73%	-3.17%	-12.87%	16.17%	
TOTAL:	NEBRASKA	-2.77%	0.25%	-3.01%	11.93%	49.24%	
371186	GTE NORTH INC. - NEBRASKA	-8.37%	1.54%	-9.76%	0.00%	0.00%	
371516	ARAPAHOE TELEPHONE COMPANY	5.02%	-2.31%	7.51%	24.18%	65.57%	
371517	ARLINGTON TELEPHONE COMPANY	-2.07%	-1.99%	-0.08%	-0.16%	33.12%	
371524	BLAIR TELEPHONE COMPANY	5.10%	-2.64%	7.95%	ERR	ERR	
371525	THREE RIVER TELCO	6.43%	-1.24%	7.77%	24.92%	66.57%	
371526	CAMBRIDGE TELEPHONE COMPANY - NE	-4.62%	0.09%	-4.70%	0.00%	0.00%	
371530	CONSOLIDATED TELCO, INC.	-13.35%	0.21%	-13.54%	-62.57%	-50.10%	
371531	CLARKS TELEPHONE COMPANY	-9.75%	0.00%	-9.75%	-72.87%	-63.82%	
371532	CONSOLIDATED TELEPHONE COMPANY- NE	-4.64%	0.11%	-4.75%	-18.17%	9.11%	
371534	COZAD TELEPHONE COMPANY	-9.29%	-6.12%	-3.38%	0.00%	0.00%	
371535	CRAIG TEL CO	MERGED INTO 371576 NORTHEAST NEBRASKA TELEPHONE CO.					
371536	CURTIS TELEPHONE COMPANY	2.32%	-6.90%	9.90%	24.10%	65.47%	
371537	DALTON TEL. CO., INC.	-2.14%	-1.50%	-0.65%	-1.62%	31.18%	
371540	DILLER TELEPHONE COMPANY	4.63%	2.35%	2.24%	26.33%	68.43%	
371542	EASTERN NEBRASKA TELEPHONE COMPANY	-15.55%	-3.87%	-12.14%	-43.18%	-24.24%	
371544	ELSIE MUTUAL TELEPHONE COMPANY	-3.91%	1.59%	-5.41%	-17.50%	10.00%	
371545	EUSTIS TELEPHONE EXCHANGE INC.	-4.09%	1.60%	-5.60%	0.00%	0.00%	
371553	GLENWOOD TELEPHONE MEMBERSHIP CORP.	-16.23%	0.60%	-16.73%	-100.00%	-100.00%	
371555	HAMILTON TELEPHONE COMPANY	3.78%	8.90%	-4.70%	0.00%	0.00%	
371556	HARTINGTON TEL. CO.	-2.22%	2.61%	-4.70%	0.00%	0.00%	
371557	HARTMAN TELEPHONE EXCHANGES INC.	5.66%	-1.11%	6.84%	10.96%	47.94%	

TABLE 3.5

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STUDY AREA CODE	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND AFTER FULL TRANSITION	UNIVERSAL SERVICE FUND APPLICABLE TO LATER YEAR
NEBRASKA (CONT.)						
371558	HEMINGFORD COOP. TELEPHONE COMPANY	-11.73%	1.09%	-12.68%	-50.26%	-33.69%
371559	HENDERSON CO-OP TELEPHONE COMPANY	-2.25%	2.58%	-4.70%	0.00%	0.00%
371561	HERSHEY COOPERATIVE TELEPHONE CO	-2.04%	1.23%	-3.23%	0.00%	0.00%
371562	HOME TEL. CO. OF NEBRASKA	-3.34%	3.12%	-6.27%	-76.88%	-69.17%
371563	HOOPER TELEPHONE COMPANY	-3.84%	0.90%	-4.70%	0.00%	0.00%
371565	K & M TELEPHONE COMPANY INC.	-0.20%	-5.24%	5.32%	ERR	ERR
371567	KEYSTONE-ARTHUR TELEPHONE COMPANY	20.48%	12.77%	6.84%	29.22%	72.29%
371568	LINCOLN TEL. & TELE. CO.	-4.45%	-2.02%	-2.48%	0.00%	0.00%
371574	NEBRASKA CENTRAL TELEPHONE COMPANY	12.27%	-1.48%	13.95%	115.29%	187.05%
371576	NORTHEAST NEBRASKA TELEPHONE COMPANY	11.44%	-10.42%	24.40%	389.34%	552.46%
371577	GREAT PLAINS COMMUNICATIONS, INC.	5.06%	0.54%	4.50%	38.93%	85.23%
371580	PETERSBURG TELEPHONE COMPANY	18.97%	1.17%	17.60%	42.24%	89.66%
371581	PIERCE TELEPHONE COMPANY	-2.76%	-0.68%	-2.09%	0.00%	0.00%
371582	PLAINVIEW TELEPHONE COMPANY INC.	-4.11%	0.62%	-4.70%	0.00%	0.00%
371586	ROCK COUNTY TEL. CO.	-9.00%	-3.86%	-5.35%	-11.69%	17.75%
371587	RODEO TELEPHONE, INC.	-10.44%	1.57%	-11.83%	-100.00%	-100.00%
371590	SODTOWN TEL. CO.	-2.95%	2.63%	-5.44%	-8.33%	22.22%
371591	SOUTHEAST NEBRASKA TEL. CO.	8.00%	4.71%	3.14%	13.45%	51.26%
371592	STANTON TEL. CO., INC.	-4.46%	0.91%	-5.33%	-10.62%	19.17%
371595	UNITED TELEPHONE CO. OF THE WEST-NE	-2.53%	0.43%	-2.95%	-100.00%	-100.00%
371597	WAUNETTA TEL. CO.	15.18%	3.07%	11.74%	21.85%	62.47%
372455	BENKELMAN TELEPHONE COMPANY INC.	1.48%	-4.51%	6.27%	9.63%	46.17%
375143	NORTHWESTERN BELL-NEBRASKA	-2.65%	1.37%	-3.97%	0.00%	0.00%
TOTAL:	NEVADA	5.73%	5.93%	-0.19%	-29.69%	-6.25%
552220	FILER MUTUAL TELEPHONE COMPANY - NV	-0.34%	9.16%	-8.70%	-51.17%	-34.90%
552223	GEM STATE UTILITIES CORP-NV	-6.49%	12.36%	-16.78%	-13.85%	14.86%
552233	RURAL TELEPHONE COMPANY - NV	634.38%	290.67%	87.98%	1135.56%	1547.41%
552284	BEEHIVE TELEPHONE COMPANY, INC., NV	17.71%	31.82%	-10.70%	9.21%	45.62%
552302	CONTEL OF CALIFORNIA - NEVADA	-5.71%	9.33%	-13.76%	-34.85%	-13.14%
552304	C P NATIONAL CORP. - NEVADA	1.10%	5.56%	-4.22%	-5.02%	26.64%
552348	CENTRAL TELEPHONE COMPANY - NEVADA	15.15%	5.89%	8.75%	0.00%	0.00%
552349	CHURCHILL CO. TEL. & TEL. SYSTEM	27.13%	6.76%	19.08%	1173.34%	1597.78%
552351	LINCOLN COUNTY TELEPHONE SYSTEM INC.	-7.64%	4.44%	-11.57%	-100.00%	-100.00%
552353	MOAPA VALLEY TELEPHONE COMPANY	-4.22%	13.91%	-15.92%	-100.00%	-100.00%
552354	NEVADA TELEPHONE-TELEGRAPH COMPANY	-4.85%	1.91%	-6.64%	-58.14%	-44.19%
552356	RIO VIRGIN TELEPHONE COMPANY	-34.13%	3.39%	-36.30%	-100.00%	-100.00%
555173	NEVADA BELL	-1.93%	5.57%	-7.10%	-39.59%	-19.46%
TOTAL:	NEW HAMPSHIRE	6.51%	4.25%	2.17%	59.33%	112.43%
120038	BRETTON WOODS TEL. CO.	84.95%	51.11%	22.39%	120.07%	193.43%
120039	GRANITE STATE TEL., INC.	8.52%	12.66%	-3.68%	-3.99%	28.02%
120040	CHICHESTER TEL. CO.	-0.71%	4.19%	-4.70%	0.00%	0.00%
120041	CONTINENTAL TEL. CO. OF NH, INC.	4.54%	7.56%	-2.81%	-7.98%	22.70%
120042	DIXVILLE TEL. CO.	-2.25%	4.00%	-6.01%	-9.86%	20.19%
120043	DUNBARTON TEL. CO.	3.59%	8.70%	-4.70%	0.00%	0.00%
120045	KEARSARGE TEL. CO.	5.70%	13.70%	-7.04%	-100.00%	-100.00%
120046	MERIDEN TEL. CO.	8.54%	2.89%	5.49%	0.00%	0.00%
120047	MERRIMACK COUNTY TEL. CO.	26.57%	12.32%	12.69%	ERR	ERR
120049	UNION TEL. CO.	39.31%	8.92%	27.91%	0.00%	0.00%
120050	WILTON TEL. CO. - NH	39.68%	7.35%	30.12%	1981.35%	2675.13%
125113	NEW ENGLAND TEL.-NH	6.02%	3.89%	2.06%	ERR	ERR
TOTAL:	NEW JERSEY	-3.56%	3.85%	-7.13%	-100.00%	-100.00%
160135	WARWICK VALLEY TEL. CO.-NJ	-0.10%	5.87%	-5.64%	0.00%	0.00%
160139	UNITED SUSSEX TELEPHONE COMPANY	11.74%	7.22%	4.22%	-100.00%	-100.00%
160140	HILLSBOROUGH & MONTGOMERY					
						MERGED INTO 160139 UNITED SUSSEX TELEPHONE COMPANY

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STUDY AREA CODE	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND AFTER FULL TRANSITION	UNIVERSAL SERVICE FUND APPLICABLE TO LATER YEAR
NEW JERSEY (CONT.)						
160141	NEW JERSEY TEL CO	MERGED INTO	160139 UNITED	SUSSEX TELEPHONE COMPANY		
160142	UTC OF NEW JERSEY	MERGED INTO	160139 UNITED	SUSSEX TELEPHONE COMPANY		
160143	WEST JERSEY TEL CO	MERGED INTO	160139 UNITED	SUSSEX TELEPHONE COMPANY		
165120	NEW JERSEY BELL	-4.09%	3.75%	-7.56%	0.00%	0.00%
TOTAL:	NEW MEXICO	-2.95%	3.40%	-6.14%	-4.62%	27.17%
492066	DELL TELEPHONE CO-OP. INC.-NM	35.33%	11.39%	21.49%	39.79%	86.38%
492080	GTE SOUTHWEST INC. - NEW MEXICO	2.98%	0.13%	2.85%	39.18%	85.58%
492176	VALLEY TELEPHONE COOPERATIVE INC-NM	9.07%	0.76%	8.25%	14.96%	53.28%
492177	CONTEL OF THE WEST - NEW MEXICO	-9.86%	-1.27%	-8.70%	-18.06%	9.25%
492259	BACA VALLEY TEL. CO.	2.61%	-2.53%	5.27%	4.46%	39.29%
492262	E.N.M.R. TEL COOP. INC.-NM	7.99%	2.39%	5.46%	10.93%	47.90%
492263	LA JICARITA RURAL TEL. COOP. INC.	-16.39%	1.29%	-17.45%	-28.76%	-5.01%
492264	LEACO RURAL TEL. COOPERATIVE INC.	-3.77%	-1.38%	-2.42%	-4.31%	27.58%
492268	WESTERN NEW MEXICO TEL. CO., INC.	-9.28%	2.24%	-11.27%	-11.51%	17.99%
492270	PENASCO VALLEY TEL. COOPERATIVE INC.	6.15%	1.65%	4.42%	8.08%	44.11%
492272	ROOSEVELT COUNTY RURAL TEL. COOP., INC	47.57%	-2.39%	51.18%	99.27%	165.69%
492274	UNIVERSAL TEL CO OF SOUTHWEST- NM	9.60%	9.55%	0.05%	16.56%	55.42%
492275	NAVAJO COMMUNICATIONS CO INC.-NM	-31.93%	-6.60%	-27.12%	-39.85%	-19.80%
495105	MOUNTAIN BELL-NEW MEXICO	-3.02%	3.96%	-6.71%	0.00%	0.00%
TOTAL:	NEW YORK	10.09%	2.29%	7.62%	16.27%	55.03%
150071	ARMSTRONG TELEPHONE CO.- NY (ADDISON)	6.76%	4.15%	2.51%	0.00%	0.00%
150072	AU SABLE VALLEY TEL. CO. INC.	-7.61%	3.16%	-10.44%	-100.00%	-100.00%
150073	BERKSHIRE TEL. CORP.	48.90%	12.64%	32.19%	0.00%	0.00%
150076	CASSADAGA TEL. CORP.	-1.41%	3.45%	-4.70%	0.00%	0.00%
150077	CHAMPLAIN TEL. CO.	-5.57%	5.01%	-10.07%	0.00%	0.00%
150078	CHAUTAQUA & ERIE TEL. CORP.	4.71%	5.10%	-0.37%	0.00%	0.00%
150079	CHAZY & WESTPORT TEL. CORP.	8.98%	13.72%	-4.17%	0.00%	0.00%
150081	CITIZENS TEL. CO. OF HAMMOND, NY	8.27%	-35.73%	68.46%	101.55%	168.73%
150082	CLYMER TEL. CO.	19.79%	5.26%	13.81%	133.44%	211.25%
150084	TACONIC TEL. CORP.	21.62%	4.23%	16.69%	0.00%	0.00%
150085	CROWN POINT TELEPHONE CORPORATION	11.02%	-10.12%	23.52%	39.64%	86.19%
150088	DELHI TELEPHONE COMPANY	3.71%	8.43%	-4.35%	0.00%	0.00%
150089	DEPOSIT TELEPHONE CO. INC.	-1.01%	3.87%	-4.70%	0.00%	0.00%
150091	DUNKIRK AND FREDONIA TEL. CO.	2.20%	4.23%	-1.94%	0.00%	0.00%
150092	EDWARDS TELEPHONE CO. INC.	5.25%	7.00%	-1.64%	4.56%	39.42%
150093	EMPIRE TELEPHONE CORP - NEW YORK	0.43%	4.61%	-4.00%	-16.68%	11.10%
150095	THE FISHERS ISLAND TEL. CO.	-1.57%	3.28%	-4.70%	0.00%	0.00%
150096	CONTINENTAL TEL CO OF NY, INC.	8.60%	7.73%	0.81%	19.57%	59.43%
150097	GERMANTOWN TELEPHONE CO INC.	23.14%	7.63%	14.41%	63.90%	118.54%
150099	HANCOCK TELEPHONE COMPANY - NY	11.36%	9.14%	2.04%	42.24%	89.66%
150100	HIGHLAND TELEPHONE CO.	24.58%	10.92%	12.32%	0.00%	0.00%
150104	MARGARETVILLE TEL. CO. INC.	-1.72%	15.34%	-14.79%	0.00%	0.00%
150105	MIDDLEBURGH TELEPHONE CO.	13.22%	2.33%	10.64%	52.29%	103.06%
150106	ALLTEL NEW YORK INC.- FULTON	14.61%	6.39%	7.72%	0.00%	0.00%
150107	NEWPORT TELEPHONE CO. INC.	-26.20%	8.73%	-32.13%	-100.00%	-100.00%
150108	NICHOLVILLE TEL. CO. INC.	1.36%	7.88%	-6.05%	-13.70%	15.06%
150109	ALLTEL NEW YORK INC. - JAMESTOWN	29.57%	2.18%	26.81%	0.00%	0.00%
150110	OGDEN TELEPHONE COMPANY - NY	6.41%	4.44%	1.88%	0.00%	0.00%
150111	ONEIDA COUNTY RURAL TEL. CO.	0.93%	3.87%	-2.83%	0.00%	0.00%
150112	ONTARIO TEL CO INC	0.18%	5.12%	-4.70%	0.00%	0.00%
150113	ALLTEL NY INC. - RED JACKET	20.93%	3.25%	17.12%	0.00%	0.00%
150114	ORISKANY FALLS TELEPHONE CORP.	-0.56%	4.35%	-4.70%	0.00%	0.00%
150116	PATTERSONVILLE TEL CO- NEW YORK	-0.47%	4.44%	-4.70%	0.00%	0.00%
150118	PORT BYRON TELEPHONE COMPANY	-16.72%	-3.99%	-13.26%	0.00%	0.00%
150119	RED HOOK TELEPHONE COMPANY	6.40%	7.48%	-1.00%	8.03%	44.03%
150121	ROCHESTER TELEPHONE CORPORATION	1.49%	3.11%	-1.57%	0.00%	0.00%

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NEW YORK (CONT.)						
150122	SENECA-GORHAM TEL. CORP.	24.80%	10.16%	13.30%	0.00%	0.00%
150125	STATE TEL. CO.	0.30%	5.24%	-4.70%	0.00%	0.00%
150128	SYLVAN LAKE TELEPHONE COMPANY	27.35%	12.22%	13.48%	0.00%	0.00%
150129	TOWNSHIP TELEPHONE COMPANY INC.	3.77%	8.89%	-4.70%	0.00%	0.00%
150131	TRUMANSBURG HOME TELEPHONE COMPANY	-2.64%	2.16%	-4.70%	0.00%	0.00%
150133	VERNON TELEPHONE COMPANY INC.	6.65%	16.06%	-8.11%	0.00%	0.00%
150135	WARWICK VALLEY TEL. CO.-NY	5.39%	8.33%	-2.71%	0.00%	0.00%
150136	WESTERN COUNTIES TELEPHONE CO.	5.78%	9.19%	-3.12%	1.04%	34.73%
155130	NEW YORK TELEPHONE	10.43%	2.02%	8.24%	0.00%	0.00%
TOTAL:	NORTH CAROLINA	5.81%	6.47%	-0.62%	12.47%	49.96%
230468	ATLANTIC TELEPHONE MEMB. CORP.	14.91%	9.94%	4.53%	0.00%	0.00%
230469	BARNARDSVILLE TELEPHONE COMPANY	11.16%	3.82%	7.08%	0.00%	0.00%
230470	CAROLINA TELEPHONE & TEL. CO.	3.63%	3.86%	-0.23%	0.00%	0.00%
230471	CENTRAL TEL. CO. - NORTH CAROLINA	7.46%	4.21%	3.12%	0.00%	0.00%
230473	CITIZENS TELEPHONE COMPANY - NC	6.79%	9.32%	-2.32%	-4.35%	27.54%
230474	THE CONCORD TELEPHONE COMPANY	10.08%	6.48%	3.37%	0.00%	0.00%
230476	ALLTEL CAROLINA INC.- NORTH	20.57%	6.74%	12.96%	ERR	ERR
230478	ELLERBE TELEPHONE COMPANY	0.16%	5.10%	-4.70%	0.00%	0.00%
230479	GTE SOUTH INC. - NORTH CAROLINA	3.50%	7.12%	-3.39%	0.00%	0.00%
230481	HEINS TELEPHONE COMPANY	6.91%	5.13%	1.70%	0.00%	0.00%
230483	LEXINGTON TELEPHONE COMPANY	-0.61%	4.29%	-4.70%	0.00%	0.00%
230485	MEBANE HOME TELEPHONE CO.	-1.25%	3.62%	-4.70%	0.00%	0.00%
230491	NORTH STATE TELEPHONE CO. - NC	-1.16%	3.72%	-4.70%	0.00%	0.00%
230494	PINEVILLE TELEPHONE CO.	-0.64%	4.26%	-4.70%	0.00%	0.00%
230495	RANDOLPH TEL. CO.	2.15%	7.19%	-4.70%	0.00%	0.00%
230496	RANDOLPH TELEPHONE MEMB. CORP.	-1.30%	3.57%	-4.70%	0.00%	0.00%
230497	PIEDMONT TELEPHONE MEMB. CORP.	1.77%	6.79%	-4.70%	0.00%	0.00%
230498	SALUDA MOUNTAIN TEL. CO.	-4.08%	0.65%	-4.70%	0.00%	0.00%
230499	SANDHILL TELEPHONE COMPANY	-1.31%	3.55%	-4.70%	0.00%	0.00%
230500	SERVICE TELEPHONE COMPANY	-2.75%	2.05%	-4.70%	0.00%	0.00%
230501	SKYLINE TEL. MEMB. CORP.	-0.61%	4.29%	-4.70%	0.00%	0.00%
230502	STAR TEL. MEMB. CORP.	3.88%	2.03%	1.81%	0.00%	0.00%
230503	SURRY TEL. MEMB. CORP.	2.11%	7.15%	-4.70%	0.00%	0.00%
230505	TRI-COUNTY TEL. MEMB. CORP.-NC	-1.69%	3.16%	-4.70%	0.00%	0.00%
230509	CONTINENTAL TELEPHONE CO OF N.C.	7.69%	4.68%	2.88%	15.37%	53.83%
230510	WILKES TELEPHONE MEMB. CORP.	-0.75%	4.47%	-5.00%	-15.70%	12.40%
230511	YADKIN VALLEY TEL. MEMB. CORP.	-0.16%	4.76%	-4.70%	0.00%	0.00%
235193	SOUTHERN BELL-NORTH CAROLINA	6.37%	8.32%	-1.80%	-3.44%	28.75%
TOTAL:	NORTH DAKOTA	0.38%	1.10%	-0.71%	-15.22%	13.04%
381447	CONTEL OF NORTH DAKOTA, INC.	-6.90%	4.70%	-11.08%	-45.58%	-27.44%
381509	WOLVERTON TEL. CO.	-2.59%	3.38%	-5.78%	-11.98%	17.36%
381601	ABSARAKA COOP TELEPHONE CO.	-4.99%	0.00%	-4.99%	-7.87%	22.84%
381604	BEK TELEPHONE MUTUAL AID CORP.	-11.91%	-2.27%	-9.86%	-63.87%	-51.82%
381607	CONSOLIDATED TELEPHONE COOPERATIVE	9.07%	-1.41%	10.63%	21.49%	61.98%
381610	DAKOTA CENTRAL RURAL TEL COOP ASSN	-34.97%	5.29%	-38.24%	-89.44%	-85.92%
381611	DICKEY RURAL TEL COOP.	-1.25%	1.30%	-2.51%	-4.13%	27.82%
381614	GILBY TELEPHONE COMPANY	-4.17%	1.17%	-5.28%	-25.06%	-0.08%
381615	GRIGGS COUNTY TELEPHONE COMPANY	-5.14%	-0.46%	-4.70%	0.00%	0.00%
381616	INTER-COMMUNITY TELEPHONE COMPANY	-10.03%	-2.00%	-8.20%	-18.85%	8.19%
381617	MIDSTATE TELEPHONE COMPANY	-5.54%	-0.42%	-5.14%	-25.09%	-0.13%
381622	MOORE & LIBERTY TELEPHONE COMPANY	-6.23%	-1.60%	-4.70%	0.00%	0.00%
381623	NOONAN FARMERS TELEPHONE COMPANY	-7.23%	-4.72%	-2.64%	-11.70%	17.73%
381624	NORTHERN STATES POWER CO. TEL. DEPT.	-1.72%	3.13%	-4.70%	0.00%	0.00%
381625	NORTHWEST COMMUNICATIONS COOPERATIVE	-8.99%	0.65%	-9.58%	-46.62%	-28.83%
381630	POLAR COMMUNICATIONS MUTUAL AID CORP	8.92%	0.43%	8.46%	0.00%	0.00%
381631	RED RIVER RURAL TEL. ASSN.	-3.26%	2.76%	-5.85%	-22.41%	3.46%

TABLE 3.5

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STUDY AREA CODE	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND AFTER FULL TRANSITION	UNIVERSAL SERVICE FUND APPLICABLE TO LATER YEAR
NORTH DAKOTA (CONT.)						
381632	RESERVATION TELEPHONE COOPERATIVE	-0.64%	-5.33%	4.95%	14.98%	53.30%
381634	SOURIS RIVER TEL. MUTUAL AID COOP.	9.40%	-2.76%	12.51%	ERR	ERR
381636	UNITED TELEPHONE MUTUAL AID CORP.	24.04%	0.32%	23.64%	0.00%	0.00%
381637	WEST RIVER MUTUAL AID TELEPHONE CORP	1.53%	1.36%	0.17%	0.00%	0.00%
381638	YORK TELEPHONE COMPANY	-2.57%	2.56%	-5.01%	-5.90%	25.46%
382247	NEMONT TELEPHONE COOPERATIVE - ND	-4.70%	0.00%	-4.70%	-9.10%	21.20%
385144	NORTHWESTERN BELL-NORTH DAKOTA	0.90%	1.23%	-0.33%	0.00%	0.00%
TOTAL:	OHIO	11.42%	2.91%	8.28%	-3.45%	28.74%
300585	ARCADIA TEL. CO.	1.98%	7.01%	-4.70%	0.00%	0.00%
300586	THE ARTHUR MUTUAL TELEPHONE COMPANY	-1.31%	3.55%	-4.70%	0.00%	0.00%
300588	AYERSVILLE TELEPHONE COMPANY	-2.63%	2.18%	-4.70%	0.00%	0.00%
300589	BASCOM MUTUAL TELEPHONE COMPANY	-2.17%	2.65%	-4.70%	0.00%	0.00%
300590	BENTON RIDGE TELEPHONE COMPANY	-3.93%	1.72%	-5.56%	-83.32%	-77.76%
300591	BUCKLAND MUTUAL TELEPHONE COMPANY	-3.08%	1.70%	-4.70%	0.00%	0.00%
300594	THE CHAMPAIGN TELEPHONE COMPANY	-1.52%	3.34%	-4.70%	0.00%	0.00%
300597	CHILLICOTHE TELEPHONE COMPANY	29.40%	3.07%	25.54%	ERR	ERR
300598	MCCLURE TELEPHONE COMPANY	-1.37%	3.49%	-4.70%	0.00%	0.00%
300604	COLUMBUS GROVE TELEPHONE COMPANY	-3.06%	1.72%	-4.70%	0.00%	0.00%
300606	CONNEAUT TELEPHONE COMPANY	0.73%	5.70%	-4.70%	0.00%	0.00%
300607	CONTINENTAL TELEPHONE CO OF OHIO	-17.58%	5.42%	-21.82%	-65.89%	-54.52%
300609	DOYLESTOWN TELEPHONE COMPANY	-2.25%	2.57%	-4.70%	0.00%	0.00%
300611	ELYRIA TELEPHONE COMPANY	-0.96%	3.93%	-4.70%	0.00%	0.00%
300612	THE FARMERS MUTUAL TEL CO - OKOLONA	-3.61%	2.67%	-6.12%	0.00%	0.00%
300613	FAYETTEVILLE TELEPHONE COMPANY	-4.89%	2.71%	-7.39%	-14.09%	14.54%
300614	FORT JENNINGS TELEPHONE COMPANY	2.69%	9.43%	-6.16%	0.00%	0.00%
300615	GTE NORTH INC. - OHIO	3.76%	5.93%	-2.04%	0.00%	0.00%
300618	GERMANTOWN INDEPENDENT TEL. CO.	-0.99%	3.89%	-4.70%	0.00%	0.00%
300619	THE GLANDORF TELEPHONE CO. INC.	5.39%	10.59%	-4.70%	0.00%	0.00%
300620	HARLAN TELEPHONE COMPANY	1.39%	6.39%	-4.70%	0.00%	0.00%
300625	KALIDA TELEPHONE CO. INC.	5.74%	10.96%	-4.70%	0.00%	0.00%
300630	CENTRAL TELEPHONE COMPANY OF OHIO	10.72%	5.53%	4.92%	0.00%	0.00%
300633	MIDDLE POINT HOME TELEPHONE COMPANY	5.14%	10.32%	-4.70%	0.00%	0.00%
300634	MINFORD TELEPHONE COMPANY INC.	-1.04%	3.84%	-4.70%	0.00%	0.00%
300637	ALLTEL OHIO INC - NEWARK	-1.14%	3.74%	-4.70%	0.00%	0.00%
300639	THE NEW KNOXVILLE TELEPHONE COMPANY	1.06%	6.05%	-4.70%	0.00%	0.00%
300644	THE NOVA TELEPHONE COMPANY	-3.48%	2.97%	-6.26%	-100.00%	-100.00%
300645	OAKWOOD MUTUAL TELEPHONE COMPANY	-1.30%	3.57%	-4.70%	0.00%	0.00%
300649	ORWELL TELEPHONE COMPANY	19.73%	-1.04%	21.00%	0.00%	0.00%
300650	THE OTTOVILLE MUTUAL TEL. COMPANY	-1.66%	3.19%	-4.70%	0.00%	0.00%
300651	PATTERSONVILLE TELEPHONE CO- OH	6.88%	25.00%	-14.50%	-70.57%	-60.75%
300654	RIDGEVILLE TELEPHONE COMPANY	5.99%	16.43%	-8.96%	0.00%	0.00%
300656	SHERWOOD MUTUAL TEL. ASSOC.	-1.73%	3.11%	-4.70%	0.00%	0.00%
300658	SYCAMORE TELEPHONE COMPANY	-3.64%	3.01%	-6.46%	0.00%	0.00%
300659	TELEPHONE SERVICE COMPANY	-1.44%	3.42%	-4.70%	0.00%	0.00%
300661	UNITED TELEPHONE CO. OF OHIO	0.12%	4.28%	-3.99%	-68.85%	-58.47%
300662	VANLUE TELEPHONE COMPANY	-3.05%	1.74%	-4.70%	0.00%	0.00%
300663	VAUGHNSVILLE TELEPHONE COMPANY	1.30%	12.07%	-9.61%	-36.08%	-14.78%
300664	WABASH MUTUAL TELEPHONE COMPANY	-1.21%	3.66%	-4.70%	0.00%	0.00%
300665	ALLTEL OHIO INC - WESTERN OHIO	8.22%	-3.69%	12.37%	0.00%	0.00%
300666	WESTERN RESERVE TELEPHONE COMPANY	-0.21%	4.72%	-4.70%	0.00%	0.00%
300682	C, C & S TELCO, INC.- OHIO	6.16%	0.00%	6.16%	0.00%	0.00%
305062	CINCINNATI BELL-OHIO	6.85%	1.21%	5.57%	0.00%	0.00%
305150	OHIO BELL TEL CO	18.08%	2.35%	15.37%	0.00%	0.00%
TOTAL:	OKLAHOMA	-4.75%	-0.38%	-4.38%	10.50%	47.33%
431704	LAVACA TELEPHONE CO.- OK	-0.17%	4.76%	-4.70%	0.00%	0.00%
431788	KANOKLA TELEPHONE ASSN. INC. - OK	15.46%	4.49%	10.50%	44.26%	92.35%

TABLE 3.5

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OKLAHOMA (CONT.)						
431831	SOUTH CENTRAL TEL. ASSN., INC.-OK	14.19%	-0.50%	14.76%	86.72%	148.96%
431965	ALLTEL OKLAHOMA, INC.	5.41%	1.28%	4.08%	12.56%	50.08%
431966	ATLAS TELEPHONE CO.	80.93%	3.31%	75.13%	0.00%	0.00%
431968	BEGGS TELEPHONE COMPANY	-5.53%	-0.87%	-4.70%	0.00%	0.00%
431969	BIXBY TELEPHONE CO.	-4.72%	-0.02%	-4.70%	0.00%	0.00%
431974	CANADIAN VALLEY TELEPHONE CO.	13.82%	1.87%	11.74%	34.30%	79.07%
431976	CARNEGIE TELEPHONE CO. INC.	4.37%	-4.53%	9.32%	231.87%	342.49%
431977	CENTRAL OKLAHOMA TELEPHONE CO.	-32.05%	-3.69%	-29.45%	-85.37%	-80.50%
431979	CHEROKEE TELEPHONE CO.	26.92%	3.10%	23.11%	0.00%	0.00%
431980	CHICKASAW TELEPHONE CO.	-9.69%	-0.07%	-9.62%	-49.32%	-32.42%
431981	CHOUTEAU TELEPHONE CO.	4.11%	0.27%	3.84%	12.22%	49.63%
431982	CIMARRON TEL. CO.	-3.75%	1.00%	-4.70%	0.00%	0.00%
431984	OKLAHOMA COMMUNICATION SYSTEMS INC.	-3.26%	0.39%	-3.63%	-5.99%	25.34%
431985	CROSS TELEPHONE CO.	-8.01%	1.93%	-9.75%	-33.33%	-11.11%
431988	DOBSON TELEPHONE CO.	0.25%	-1.61%	1.89%	3.23%	37.64%
431994	GRAND TELEPHONE CO. INC.	-3.70%	7.16%	-10.14%	-31.12%	-8.16%
431995	HINTON TELEPHONE CO.	8.79%	1.03%	7.69%	37.61%	83.48%
432006	M.CLOUD TELEPHONE CO.	0.15%	0.97%	-0.81%	2.90%	37.20%
432008	MEDICINE PARK TELEPHONE CO.	-8.38%	-3.86%	-4.70%	0.00%	0.00%
432010	MID-AMERICA TEL., INC.	9.35%	0.72%	8.57%	ERR	ERR
432011	OKLAHOMA ALLTEL, INC.	9.57%	3.78%	5.57%	22.77%	63.69%
432013	OKLAHOMA TELEPHONE & TELEGRAPH INC.	-17.20%	-0.23%	-17.01%	-30.95%	-7.94%
432014	OKLAHOMA WESTERN TELEPHONE CO.	74.94%	2.98%	69.88%	221.00%	328.00%
432016	PANHANDLE TELEPHONE COOPERATIVE INC.	1.30%	-2.70%	4.11%	6.43%	41.91%
432017	PINE TELEPHONE CO INC- OK	-1.73%	3.12%	-4.70%	0.00%	0.00%
432018	PIONEER TEL. COOP. INC.	5.92%	-2.26%	8.37%	81.75%	142.34%
432020	POTTAWATOMIE TELEPHONE CO.	0.89%	-4.55%	5.69%	3.69%	38.25%
432022	SALINA-SPAVINAW TEL. CO., INC.	5.38%	10.58%	-4.70%	0.00%	0.00%
432023	SHIDLER TEL. CO.	-8.90%	-7.37%	-1.65%	-10.26%	19.65%
432025	SOUTHWEST OKLAHOMA TEL. CO.	-4.38%	0.55%	-4.90%	-15.55%	12.60%
432029	TERRAL TEL. CO.	-4.82%	-0.34%	-4.50%	-32.28%	-9.70%
432030	TOTAH TELEPHONE CO. INC.	9.50%	-2.75%	12.59%	20.41%	60.55%
432032	VALLIANT TELEPHONE COMPANY	-4.30%	-0.23%	-4.08%	-9.13%	21.16%
432034	WYANDOTTE TELEPHONE COMPANY	8.38%	6.65%	1.62%	13.07%	50.77%
432080	GTE SOUTHWEST INC. - OKLAHOMA	10.23%	2.04%	8.02%	33.74%	78.31%
432141	SANTA ROSA TELEPHONE COOP. INC.	-10.04%	2.22%	-11.99%	-39.68%	-19.58%
435215	SOUTHWESTERN BELL-OKLAHOMA	-7.56%	-0.66%	-6.95%	-100.00%	-100.00%
TOTAL:	OREGON	3.27%	3.32%	-0.05%	-7.41%	23.45%
532226	MIDVALE TEL. EXCH. INC. - OR	72.33%	6.50%	61.81%	125.35%	200.46%
532304	C P NATIONAL CORP. - OREGON	-5.40%	-4.89%	-0.55%	-4.19%	27.74%
532359	BEAVER CREEK COOPERATIVE TEL. CO.	-0.20%	3.14%	-3.24%	-7.13%	23.82%
532361	TELEPHONE UTILITIES OF OREGON INC.	6.20%	5.12%	1.03%	9.90%	46.54%
532362	CANBY TELEPHONE ASSOCIATION	-14.13%	9.14%	-21.32%	0.00%	0.00%
532363	CLEAR CREEK MUTUAL TELEPHONE CO.	4.17%	1.39%	2.73%	19.64%	59.52%
532364	COLTON TELEPHONE COMPANY	16.65%	4.49%	11.64%	49.32%	99.09%
532369	EAGLE TELEPHONE SYSTEM INC.	4.01%	18.94%	-12.55%	-71.13%	-61.50%
532371	CASCADE UTILITIES INC.	5.01%	-0.24%	5.26%	ERR	ERR
532373	GERVAIS TELEPHONE COMPANY	1.47%	6.47%	-4.70%	0.00%	0.00%
532375	RTI/HALSEY TEL. CO.	-3.21%	-11.79%	9.73%	21.87%	62.49%
532376	HELIX TELEPHONE COMPANY	22.22%	6.01%	15.29%	38.88%	85.17%
532377	HOME TELEPHONE COMPANY	-2.13%	5.69%	-7.40%	-6.33%	24.90%
532378	TRANS-CASCADES TELEPHONE COMPANY	-3.16%	5.62%	-8.31%	-4.08%	27.89%
532383	MOLALLA TELEPHONE COMPANY	24.99%	6.10%	17.80%	97.56%	163.42%
532384	MONITOR COOPERATIVE TELEPHONE CO	-2.45%	2.36%	-4.70%	0.00%	0.00%
532385	MONROE TELEPHONE COMPANY	0.43%	15.70%	-13.20%	-66.01%	-54.68%
532386	MT. ANGEL TELEPHONE COMPANY	-1.61%	3.24%	-4.70%	0.00%	0.00%
532387	NEHALEM TELEPHONE AND TELEGRAPH	-1.82%	11.21%	-11.72%	-59.69%	-46.25%
532388	NORTH STATE TELEPHONE COMPANY - OR	14.30%	3.13%	10.82%	35.61%	80.82%



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OREGON (CONT.)						
532389	OREGON TELEPHONE CORPORATION	2.51%	3.79%	-1.24%	2.44%	36.59%
532391	PEOPLES TELEPHONE COMPANY - OR	2.70%	7.76%	-4.70%	0.00%	0.00%
532392	PINE TELEPHONE SYSTEM INC. - OR	24.56%	1.00%	23.33%	66.41%	121.88%
532393	PIONEER TELEPHONE COOPERATIVE	1.91%	1.57%	0.33%	0.00%	0.00%
532396	ST. PAUL COOP. TEL. ASSN.	-4.68%	0.23%	-4.90%	0.00%	0.00%
532397	SCIO MUTUAL TEL. ASSOCIATION	1.27%	0.94%	0.33%	7.79%	43.72%
532399	STAYTON COOP. TEL CO	-7.55%	2.62%	-9.91%	0.00%	0.00%
532400	UNITED TELEPHONE CO OF THE NW - OR	-11.50%	4.07%	-14.96%	-44.80%	-26.39%
532404	ASOTIN TELEPHONE COMPANY - OREGON	392.52%	95.56%	151.86%	535.35%	747.13%
532416	GTE NORTHWEST INC. - OREGON	-6.32%	4.73%	-10.56%	0.00%	0.00%
532449	CONTEL OF THE NORTHWEST INC. - OR	-2.17%	4.16%	-6.07%	-14.04%	14.62%
532456	MALHEUR HOME TELEPHONE COMPANY	3.29%	0.73%	2.54%	1592.05%	2156.07%
535163	PACIFIC NORTHWEST BELL-OREGON	7.40%	2.92%	4.35%	0.00%	0.00%
TOTAL:	PENNSYLVANIA	-2.13%	3.25%	-5.21%	19.96%	59.95%
170145	THE BENTLEYVILLE TEL. CO.	-3.59%	1.16%	-4.70%	0.00%	0.00%
170149	BREEZEWOOD TELEPHONE COMPANY	1.83%	6.85%	-4.70%	0.00%	0.00%
170150	BROOKVILLE TELEPHONE COMPANY	-0.75%	4.14%	-4.70%	0.00%	0.00%
170151	BUFFALO VALLEY TELEPHONE COMPANY	-1.27%	3.60%	-4.70%	0.00%	0.00%
170152	CANTON TELEPHONE COMPANY	5.26%	10.45%	-4.70%	0.00%	0.00%
170156	CITIZENS TEL CO OF KECKSBURG	-0.54%	4.36%	-4.70%	0.00%	0.00%
170157	CITIZENS UTILITIES CO. OF PA	-4.31%	0.41%	-4.70%	0.00%	0.00%
170161	C-TEC CORPORATION	-4.43%	0.28%	-4.70%	0.00%	0.00%
170162	THE CONESTOGA TEL. AND TEL. CO.	-0.15%	4.78%	-4.70%	0.00%	0.00%
170163	COOPERSBURG TEL CO	MERGED INTO 170161 C-TEC CORPORATION				
170165	DENVER AND EPHRATA TEL. & TEL. CO.	-4.74%	-0.04%	-4.70%	0.00%	0.00%
170168	ENTERPRISE TELEPHONE COMPANY	-7.67%	-3.12%	-4.70%	0.00%	0.00%
170169	GTE NORTH INC. - PENNSYLVANIA	-1.08%	5.56%	-6.29%	0.00%	0.00%
170170	CONTINENTAL TELEPHONE CO OF PA	7.60%	7.11%	0.47%	0.00%	0.00%
170171	HICKORY TELEPHONE COMPANY	-4.16%	0.57%	-4.70%	0.00%	0.00%
170175	IRONTON TELEPHONE COMPANY	4.45%	9.60%	-4.70%	0.00%	0.00%
170176	ALLTEL PENNSYLVANIA INC.	4.57%	9.73%	-4.70%	0.00%	0.00%
170177	LACKAWAXEN TELEPHONE COMPANY	28.14%	77.14%	-27.66%	-24.43%	0.76%
170178	LAKEWOOD RURAL TELEPHONE COMPANY	-3.66%	1.09%	-4.70%	0.00%	0.00%
170179	LAUREL HIGHLAND TELEPHONE COMPANY	-0.65%	4.25%	-4.70%	0.00%	0.00%
170181	LEWISBERRY TEL CO	MERGED INTO 170161 C-TEC CORPORATION				
170183	MAHANAY & MAHANTONGO TEL. CO.	148.58%	90.37%	30.57%	ERR	ERR
170185	MARIANNA - SCENERY HILL TEL. CO.	-2.91%	1.88%	-4.70%	0.00%	0.00%
170189	ARMSTRONG TEL. CO.-PA (MURDOCKSVILLE)	-4.24%	4.12%	-8.03%	-35.00%	-13.34%
170190	MURRAYSVILLE TELEPHONE COMPANY	-1.49%	3.37%	-4.70%	0.00%	0.00%
170191	THE NORTH EASTERN PA. TEL. CO.	-2.15%	2.68%	-4.70%	0.00%	0.00%
170192	NORTH PENN TELEPHONE COMPANY	-4.64%	-0.73%	-3.94%	-91.96%	-89.27%
170193	NORTH PITTSBURGH TEL. CO.	-1.62%	3.24%	-4.70%	0.00%	0.00%
170194	OSWAYO RIVER TELEPHONE COMPANY	11.43%	-16.36%	33.23%	ERR	ERR
170195	OTTO TELEPHONE COMPANY	-1.51%	3.35%	-4.70%	0.00%	0.00%
170196	PALMERTON TELEPHONE COMPANY	0.36%	5.31%	-4.70%	0.00%	0.00%
170197	PENNSYLVANIA TELEPHONE COMPANY	3.92%	9.05%	-4.70%	0.00%	0.00%
170200	PYMATUNING IND. TELEPHONE COMPANY	-2.06%	2.77%	-4.70%	0.00%	0.00%
170201	QUAKER STATE TELEPHONE COMPANY	9.65%	8.88%	0.71%	17.42%	56.56%
170204	SOUTH CANAAN TEL. CO.	1.54%	6.54%	-4.70%	0.00%	0.00%
170206	SUGAR VALLEY TELEPHONE COMPANY	14.06%	4.48%	9.17%	50.22%	100.29%
170209	UNITED TELEPHONE COMPANY OF PA	-1.06%	4.50%	-5.33%	0.00%	0.00%
170210	VENUS TELEPHONE CORPORATION	-4.82%	3.91%	-8.40%	0.00%	0.00%
170215	YUKON-WALTZ TELEPHONE COMPANY	-2.99%	1.79%	-4.70%	0.00%	0.00%
170277	WEST SIDE TELEPHONE COMPANY-PA	-4.99%	0.00%	-4.99%	-7.92%	22.77%
175000	BELL OF PENNSYLVANIA	-2.79%	2.85%	-5.48%	0.00%	0.00%

TABLE 3.5

National Exchange Carrier Association  
Universal Service Fund  
Individual Study Areas  
Percentage Changes from 1986 to 1987

STUDY AREA CODE	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND AFTER FULL TRANSITION	UNIVERSAL SERVICE FUND APPLICABLE TO LATER YEAR
TOTAL:	PUERTO RICO	15.29%	8.72%	6.04%	0.00%	0.00%
633200	PUERTO RICO COMMUNICATION AUTHORITY	13.13%	11.55%	1.42%	0.00%	0.00%
633201	PUERTO RICO TEL. CO.	15.55%	8.36%	6.63%	0.00%	0.00%
TOTAL:	RHODE ISLAND	-2.28%	2.03%	-4.22%	0.00%	0.00%
585114	NEW ENGLAND TEL.-RI	-2.28%	2.03%	-4.22%	0.00%	0.00%
TOTAL:	SOUTH CAROLINA	2.59%	5.87%	-3.10%	-4.24%	27.68%
240479	GTE SOUTH INC. - SOUTH CAROLINA	10.71%	1.51%	9.06%	ERR	ERR
240506	UNITED TELEPHONE CO. OF THE CAROLINAS	0.43%	0.78%	-0.34%	0.00%	0.00%
240512	BLUFFTON TEL. & APPL. CO. INC.	32.34%	13.86%	16.24%	615.55%	854.07%
240515	CHESNEE TELEPHONE COMPANY	1.25%	6.24%	-4.70%	0.00%	0.00%
240516	CHESTER TELEPHONE COMPANY- SC	-0.52%	4.39%	-4.70%	0.00%	0.00%
240517	ALLTEL SOUTH CAROLINA INC.	-2.21%	2.61%	-4.70%	0.00%	0.00%
240520	FARMERS TEL COOP INC - SC	2.87%	8.87%	-5.51%	-21.32%	4.90%
240521	FORT MILL TELEPHONE COMPANY	-0.95%	3.94%	-4.70%	0.00%	0.00%
240523	HARGRAY TEL. CO. INC.	-0.89%	16.39%	-14.85%	-58.45%	-44.59%
240524	HEATH SPRINGS TEL. CO.	8.01%	13.33%	-4.70%	0.00%	0.00%
240526	CONTINENTAL TELEPHONE CO OF S.C.	3.64%	1.24%	2.37%	87.17%	149.56%
240527	HOME TELEPHONE COMPANY INC - SC	0.90%	5.87%	-4.70%	0.00%	0.00%
240528	HORRY TEL. COOP. INC.	-5.74%	20.02%	-21.47%	-100.00%	-100.00%
240531	LANCASTER TEL. CO.	-1.00%	3.88%	-4.70%	0.00%	0.00%
240532	LOCKHART TELEPHONE COMPANY, INC.	-1.82%	3.03%	-4.70%	0.00%	0.00%
240533	MCCLELLANVILLE TEL. CO. INC.	13.24%	21.91%	-7.11%	-14.12%	14.50%
240535	NORWAY TELEPHONE CO. INC.	-0.28%	4.64%	-4.70%	0.00%	0.00%
240536	PALMETTO RURAL TEL. COOP., INC.	1.81%	6.83%	-4.70%	0.00%	0.00%
240538	PIEDMONT RURAL TEL. COOP.	0.51%	5.47%	-4.70%	0.00%	0.00%
240539	POND BRANCH TEL. CO. INC.	7.32%	4.98%	2.23%	238.46%	351.28%
240540	RIDGE TEL. CO. INC.	1.70%	6.72%	-4.70%	0.00%	0.00%
240541	RIDGEWAY TELEPHONE COMPANY, INC.	0.39%	5.34%	-4.70%	0.00%	0.00%
240542	ROCK HILL TEL. CO.	-1.03%	3.85%	-4.70%	0.00%	0.00%
240543	ST. MATTHEWS TELEPHONE COMPANY	0.39%	5.34%	-4.70%	0.00%	0.00%
240544	ST. STEPHEN TELEPHONE COMPANY	-0.73%	4.16%	-4.70%	0.00%	0.00%
240546	SANDHILL TEL. COOP. - SC	0.37%	5.32%	-4.70%	0.00%	0.00%
240550	WEST CAROLINA RURAL TEL. COOP.	0.43%	5.39%	-4.70%	0.00%	0.00%
240551	WILLISTON TELEPHONE COMPANY	1.89%	2.84%	-0.93%	3.02%	37.36%
245194	SOUTHERN BELL-SOUTH CAROLINA	2.43%	6.18%	-3.53%	-7.23%	23.70%
TOTAL:	SOUTH DAKOTA	-1.90%	2.13%	-3.95%	-24.82%	0.24%
391640	ARMOUR INDEPENDENT TELEPHONE CO.	-0.61%	4.29%	-4.70%	0.00%	0.00%
391642	BALTIC TELECOM COOPERATIVE	-1.03%	3.85%	-4.70%	0.00%	0.00%
391643	CONTEL OF SOUTH DAKOTA (BISON STATE)	5.63%	-0.49%	6.15%	36.41%	81.88%
391645	BROOKINGS-LAKE TEL					
391647	CHEYENNE RIVER SIOUX TRIBAL TEL AUTH	-10.35%	2.95%	-12.92%	-23.29%	2.28%
391649	BERESFORD MUNICIPAL TEL. CO.	-1.81%	3.04%	-4.70%	0.00%	0.00%
391650	CITY OF BROOKINGS MUNICIPAL TEL. DEPT	-0.17%	4.75%	-4.70%	0.00%	0.00%
391652	DAKOTA COOP TELECOMMUNICATIONS CO INC	-3.74%	1.00%	-4.70%	0.00%	0.00%
391653	CITY OF FAITH MUNICIPAL TEL CO	-3.81%	1.95%	-5.65%	-52.31%	-36.41%
391654	INTERSTATE TELECOMMUNICATIONS (DEUEL)	-14.95%	1.71%	-16.39%	-100.00%	-100.00%
391657	SPLITROCK TELECOM COOPERATIVE INC.	0.44%	5.39%	-4.70%	0.00%	0.00%
391659	GOLDEN WEST TELECOMM. COOP, INC.	-7.14%	13.42%	-18.12%	-43.85%	-25.14%
391660	MT. RUSHMORE TEL. CO.	-1.61%	6.30%	-7.44%	-41.27%	-21.70%
391661	HANSON COUNTY TELEPHONE COMPANY	-3.55%	1.20%	-4.70%	0.00%	0.00%
391664	JAMES VALLEY COOPERATIVE TEL CO	-4.10%	1.18%	-5.22%	-22.07%	3.91%
391666	JEFFERSON TELEPHONE COMPANY - SD	33.56%	1.30%	31.84%	ERR	ERR
391667	KADOKA TELEPHONE COMPANY	-18.17%	1.01%	-18.99%	0.00%	0.00%
391668	KENNEBEC TELEPHONE COMPANY	22.45%	-3.99%	27.54%	49.51%	99.35%
391669	MCCOOK COOPERATIVE TELEPHONE CO.	10.94%	-4.93%	16.69%	156.72%	242.30%

TABLE 3.5

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SOUTH DAKOTA (CONT.)						
391670	MIDSTATE TELEPHONE COMPANY	-9.14%	1.13%	-10.16%	-46.69%	-28.92%
391674	ROBERTS COUNTY TEL. COOP. ASSN.	-4.87%	-0.24%	-4.64%	-16.10%	11.87%
391676	SANBORN TEL. COOP.	5.23%	-0.46%	5.71%	0.00%	0.00%
391677	SIOUX VALLEY TELEPHONE COMPANY	-1.40%	3.46%	-4.70%	0.00%	0.00%
391679	STOCKHOLM-STRANDBURG TEL. CO.	-4.33%	0.51%	-4.81%	-16.30%	11.59%
391680	SULLY BUTTES TELEPHONE COOP. INC.	-10.57%	-2.17%	-8.58%	-40.35%	-20.47%
391682	TRI-COUNTY MUTUAL TEL. CO.-SD	-4.79%	-0.23%	-4.57%	-16.68%	11.09%
391684	UNION TELEPHONE COMPANY	-2.81%	1.99%	-4.70%	0.00%	0.00%
391685	VALLEY TELECOMM. COOP. ASSN., INC.	-3.44%	2.61%	-5.89%	-33.63%	-11.51%
391686	VIVIAN TELEPHONE COMPANY	0.15%	7.69%	-7.01%	-8.68%	21.76%
391688	WESTERN TELEPHONE COMPANY	-5.38%	-1.87%	-3.58%	0.00%	0.00%
391689	WEST RIVER COOPERATIVE TEL. CO.	-6.74%	0.61%	-7.30%	-11.80%	17.60%
395145	NORTHWESTERN BELL-SOUTH DAKOTA	-1.17%	1.75%	-2.87%	0.00%	0.00%
TOTAL:	TENNESSEE	9.41%	8.09%	1.22%	48.77%	98.36%
290280	ARDMORE TELEPHONE COMPANY INC.	3.17%	8.25%	-4.70%	0.00%	0.00%
290479	GTE SOUTH INC. - TENNESSEE	12.91%	4.99%	7.54%	150.35%	233.80%
290552	ADAMSVILLE TELEPHONE COMPANY INC.	12.02%	2.46%	9.33%	59.31%	112.41%
290553	BEN LOMAND RURAL TEL. COOP. INC.	-0.21%	4.72%	-4.70%	0.00%	0.00%
290554	BLEDSOE TELEPHONE COOPERATIVE	-2.36%	2.45%	-4.70%	0.00%	0.00%
290557	CLAIBORNE TELEPHONE COMPANY INC.	2.30%	7.35%	-4.70%	0.00%	0.00%
290559	CONCORD TEL. EXCHANGE INC.	0.11%	5.05%	-4.70%	0.00%	0.00%
290561	CROCKETT TEL., INC.	-1.78%	3.06%	-4.70%	0.00%	0.00%
290562	DEKALB TELEPHONE COOP, INC.	1.17%	6.16%	-4.70%	0.00%	0.00%
290565	HIGHLAND TEL COOP INC - TENNESSEE	-0.98%	3.90%	-4.70%	0.00%	0.00%
290566	HUMPHREY'S COUNTY TEL. COMPANY	4.44%	9.59%	-4.70%	0.00%	0.00%
290567	UNITED INTER-MOUNTAIN TEL. COMPANY-TN	3.31%	2.85%	0.44%	0.00%	0.00%
290570	LORETTO TELEPHONE COMPANY INC.	-1.17%	3.70%	-4.70%	0.00%	0.00%
290571	MILLINGTON TELEPHONE COMPANY INC.	18.01%	4.15%	13.30%	0.00%	0.00%
290573	NORTH CENTRAL TEL COOP, INC.	0.16%	5.10%	-4.70%	0.00%	0.00%
290574	OOLTEWAH-COLLEGE DALE TEL. CO.	-8.55%	-4.04%	-4.70%	0.00%	0.00%
290575	TENNESSEE TELEPHONE COMPANY	4.98%	8.02%	-2.81%	-3.28%	28.96%
290576	PEOPLES TEL. CO. INC.	-4.23%	0.49%	-4.70%	0.00%	0.00%
290577	ALLTEL TENNESSEE INC.	0.87%	5.84%	-4.70%	0.00%	0.00%
290578	TELLICO TEL. CO., INC.	0.63%	5.59%	-4.70%	0.00%	0.00%
290579	TWIN LAKES TEL. COOP. CORP.	9.70%	8.26%	1.33%	0.00%	0.00%
290581	UNITED TEL. CO.-TN	0.19%	5.14%	-4.70%	0.00%	0.00%
290583	WEST TENNESSEE TEL. CO., INC.	-2.85%	1.94%	-4.70%	0.00%	0.00%
290584	YORKVILLE TELEPHONE COOPERATIVE INC.	-3.44%	3.05%	-6.30%	0.00%	0.00%
295185	SOUTH CENTRAL BELL-TENNESSEE	10.67%	8.98%	1.56%	0.00%	0.00%
TOTAL:	TEXAS	-1.19%	0.41%	-1.59%	15.40%	53.86%
440425	CAMERON TELEPHONE COMPANY - TEXAS	6.22%	0.10%	6.11%	19.17%	58.90%
442038	BLOSSOM TELEPHONE COMPANY	-11.95%	-7.60%	-4.70%	0.00%	0.00%
442039	BIG BEND TELEPHONE COMPANY INC.	16.47%	5.87%	10.01%	21.27%	61.69%
442040	BRAZORIA TEL. CO.	8.70%	9.34%	-0.58%	10.60%	47.46%
442041	BRAZOS TELEPHONE COOPERATIVE INC.	24.68%	-0.61%	25.44%	41.01%	88.02%
442043	BYERS AND PETROLIA TELEPHONE CO.	-4.69%	0.00%	-4.69%	0.00%	0.00%
442046	CAP ROCK TELEPHONE COMPANY INC.	-0.75%	-2.31%	1.60%	2.70%	36.94%
442052	CENTRAL TEXAS TELEPHONE CO-OP. INC.	1.97%	2.70%	-0.71%	2.20%	36.26%
442057	COLEMAN COUNTY TELEPHONE CO-OP. INC.	-14.24%	1.50%	-15.51%	-74.70%	-66.27%
442059	COLORADO VALLEY TELEPHONE CO-OP. INC.	6.86%	0.58%	6.24%	19.86%	59.82%
442060	COMANCHE COUNTY TEL COMPANY INC.	-8.64%	-0.19%	-8.46%	0.00%	0.00%
442061	COMMUNITY TELEPHONE COMPANY, INC.	-2.36%	4.51%	-6.58%	-24.75%	0.33%
442065	CUMBY TELEPHONE COOPERATIVE INC.	-2.25%	2.57%	-4.70%	0.00%	0.00%
442066	DELL TELEPHONE CO-OP. INC. - TX	9.73%	44.44%	-24.03%	6.58%	42.11%
442068	EASTEX TELEPHONE COOPERATIVE INC.	6.89%	-0.01%	6.90%	26.70%	68.94%
442069	ELECTRA TELEPHONE COMPANY	-7.43%	-2.86%	-4.70%	0.00%	0.00%

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TEXAS (CONT.)						
442070	ETEX TELEPHONE COOPERATIVE INC.	5.53%	1.29%	4.18%	89.59%	152.79%
442071	FIVE AREA TELEPHONE CO-OP. INC.	-2.16%	0.34%	-2.49%	-2.64%	29.82%
442072	FORT BEND TELEPHONE COMPANY	7.24%	4.20%	2.92%	23.15%	64.20%
442076	GANADO TELEPHONE COMPANY INC.	-2.30%	-2.04%	-0.26%	0.81%	34.42%
442080	GTE SOUTHWEST INC. - TEXAS	7.10%	3.77%	3.20%	24.37%	65.82%
442083	GUADALUPE VALLEY TEL CO-OP. INC.	7.15%	4.61%	2.43%	21.13%	61.51%
442084	UNITED TELEPHONE CO. OF TEXAS INC.	10.02%	2.04%	7.82%	34.08%	78.78%
442086	HILL COUNTRY TELEPHONE CO-OP. INC.	-2.22%	2.85%	-4.93%	-5.76%	25.65%
442090	ALENCO COMMUNICATIONS, INC.	-4.74%	0.00%	-4.74%	-7.96%	22.71%
442093	INDUSTRY TELEPHONE COMPANY	6.13%	6.64%	-0.48%	6.59%	42.12%
442097	KERRVILLE TELEPHONE COMPANY	-3.64%	0.59%	-4.20%	0.00%	0.00%
442099	KNIPPA TELEPHONE COMPANY	-4.29%	0.87%	-5.12%	-11.07%	18.57%
442101	LAKE DALLAS TELEPHONE COMPANY, INC.	2.29%	2.34%	-0.05%	6.63%	42.17%
442103	LA WARD TELEPHONE EXCHANGE INC.	12.08%	-0.24%	12.35%	25.64%	67.51%
442104	LAKE LIVINGSTON TEL. CO.	13.45%	0.11%	13.32%	35.37%	80.49%
442105	LIPAN TELEPHONE COMPANY	-3.83%	2.29%	-5.99%	0.00%	0.00%
442107	LIVINGSTON TELEPHONE COMPANY	-2.61%	2.19%	-4.70%	0.00%	0.00%
442109	LUFKIN-CONROE TELEPHONE EXCHANGE, INC	16.94%	2.22%	14.40%	ERR	ERR
442112	MID-PLAINS RURAL TEL. CO-OP. INC.	1.49%	-4.31%	6.06%	8.12%	44.16%
442114	CENTRAL TELEPHONE COMPANY OF TEXAS	3.94%	3.15%	0.77%	17.60%	56.80%
442116	MUNSTER TELEPHONE CORP. OF TEXAS	9.75%	-2.90%	13.02%	ERR	ERR
442117	MUSTANG TELEPHONE COMPANY	-4.19%	0.63%	-4.79%	-10.58%	19.22%
442121	ALLTEL TEXAS INC.	24.68%	-0.37%	25.15%	ERR	ERR
442129	PEEPLS TELEPHONE COMPANY	30.77%	0.79%	29.75%	60.69%	114.25%
442130	PEOPLES TELEPHONE COOPERATIVE - TX	4.42%	2.52%	1.85%	22.18%	62.90%
442131	POKA-LAMBRO RURAL TEL. CO-OP. INC.	14.01%	1.15%	12.71%	27.60%	70.14%
442134	RIVIERA TELEPHONE COMPANY INC.	-6.11%	11.80%	-16.02%	-17.18%	10.42%
442135	SOUTHWEST TEXAS TELEPHONE COMPANY	9.06%	3.98%	4.89%	12.24%	49.65%
442136	ROMAIN TELEPHONE COMPANY	15.55%	-9.14%	27.18%	37.90%	83.86%
442140	SAN MARCOS TEL. CO., INC.	1.77%	6.79%	-4.70%	0.00%	0.00%
442141	SANTA ROSA TEL. COOP., INC.	-36.08%	-1.15%	-35.34%	-67.00%	-56.00%
442143	SOUTH PLAINS TEL. COOP., INC.	-20.40%	1.65%	-21.69%	-60.37%	-47.16%
442147	SUGAR LAND TEL. CO.	-19.36%	6.19%	-24.06%	-100.00%	-100.00%
442148	SWEENEY-OLD OCEAN	-17.22%	-2.22%	-15.33%	-38.26%	-17.68%
442150	TATUM TEL. CO.	-3.18%	1.60%	-4.70%	0.00%	0.00%
442151	TAYLOR TEL. CO-OP., INC.	-2.32%	-0.10%	-2.22%	-6.08%	25.23%
442153	TEXAS-MIDLAND TELEPHONE COMPANY	13.73%	-3.30%	17.61%	35.44%	80.59%
442154	CONTINENTAL TELEPHONE CO OF TEXAS	4.37%	3.57%	0.77%	7.27%	43.03%
442155	TRI-COUNTY TEL. CO. INC.-TX	266.54%	91.50%	91.41%	ERR	ERR
442156	TRINITY VALLEY TELEPHONE COMPANY INC.	4.10%	3.72%	0.37%	5.83%	41.11%
442159	VALLEY TELEPHONE CO-OP. INC. - TX	14.31%	0.05%	14.25%	22.55%	63.41%
442160	VALLEY VIEW TELEPHONE COMPANY	10.04%	0.47%	9.52%	47.66%	96.88%
442163	WATERWOOD COMMUNICATIONS INC.	15.60%	-14.48%	35.18%	101.28%	168.38%
442166	WEST TEXAS RURAL TEL. CO-OP. INC.	-6.41%	-5.02%	-1.46%	-6.57%	24.57%
442168	WES-TEX TELEPHONE CO-OP.	5.81%	1.86%	3.88%	14.36%	52.48%
442170	XIT RURAL TELEPHONE CO-OP. INC.	-2.29%	-0.60%	-1.70%	-2.50%	30.00%
442262	E.N.M.R. TEL. COOP., INC.-TX	68.33%	1.10%	66.50%	ERR	ERR
445216	SOUTHWESTERN BELL-TEXAS	-3.91%	-0.36%	-3.56%	0.00%	0.00%
TOTAL:	UTAH	-5.47%	2.49%	-7.77%	-31.84%	-9.11%
502177	CONTEL OF THE WEST - UTAH	-19.07%	-0.66%	-18.53%	-44.21%	-25.61%
502275	NAVAJO COMMUNICATIONS CO. INC. - UT	1.55%	2.64%	-1.07%	1.62%	35.49%
502277	CENTRAL UTAH TEL. INC.	10.67%	0.00%	10.67%	ERR	ERR
502278	EMERY COUNTY FARMERS UNION TEL ASSN	-17.91%	-0.41%	-17.58%	0.00%	0.00%
502279	GUNNISON TEL. CO.	4.08%	9.22%	-4.70%	0.00%	0.00%
502280	KAMAS-WOODLAND TEL. CO.	0.92%	5.94%	-4.74%	-6.29%	24.94%
502282	MANTI TELEPHONE COMPANY	-2.05%	2.78%	-4.70%	0.00%	0.00%
502283	SKYLINE TELECOM	4.90%	3.26%	1.59%	0.00%	0.00%
502284	BEEHIVE TELEPHONE CO., INC., UT	33.38%	-1.32%	35.16%	116.84%	189.11%

TABLE 3.5

National Exchange Carrier Association  
 Universal Service Fund  
 Individual Study Areas  
 Percentage Changes from 1986 to 1987

STUDY AREA CODE	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND AFTER FULL TRANSITION	UNIVERSAL SERVICE FUND APPLICABLE TO LATER YEAR
UTAH (CONT.)						
502286	SOUTH CENTRAL UTAH TEL. ASSN. INC.	4.39%	32.16%	-21.01%	-100.00%	-100.00%
502287	UINTAH BASIN TEL. ASSN. INC.	2.52%	0.52%	1.99%	7.95%	43.93%
502288	UTAH-WYOMING TELECOM - UT	-23.77%	-3.58%	-20.94%	-81.12%	-74.83%
505107	MOUNTAIN BELL-UTAH	-4.98%	2.48%	-7.28%	0.00%	0.00%
TOTAL:	VERMONT	-0.87%	3.39%	-4.12%	-4.47%	27.37%
140053	FRANKLIN TEL. CO. - VT	-0.71%	4.19%	-4.70%	0.00%	0.00%
140058	LUDLOW TEL. CO.	-1.49%	6.25%	-7.28%	0.00%	0.00%
140061	NORTHFIELD TEL. CO.	-0.49%	2.31%	-2.73%	0.00%	0.00%
140062	PERKINSVILLE TEL. CO.	-4.13%	6.72%	-10.17%	-100.00%	-100.00%
140064	SHOREHAM TEL. CO.	-1.88%	6.37%	-7.76%	-91.61%	-88.82%
140068	TOPSHAM TEL. CO., INC.	16.77%	14.46%	2.01%	136.46%	215.27%
140069	WAITSFIELD/FAYSTON TEL. CO.	4.49%	5.26%	-0.73%	5.88%	41.17%
140070	CONTINENTAL TEL CO OF VT, INC.	7.61%	10.10%	-2.26%	4.48%	39.30%
145115	NEW ENGLAND TEL.-VT	-2.26%	2.47%	-4.61%	-27.19%	-2.92%
TOTAL:	VIRGIN ISLANDS	11.09%	4.60%	6.20%	24.65%	66.20%
643300	VIRGIN ISLANDS TELEPHONE CORPORATION	11.09%	4.60%	6.20%	24.65%	66.20%
TOTAL:	VIRGINIA	3.88%	6.14%	-2.13%	-23.69%	1.75%
190217	AMELIA TEL. CORP.	7.35%	0.39%	6.93%	21.00%	61.33%
190219	BUGGS ISLAND TELEPHONE COOP.	3.01%	8.09%	-4.70%	0.00%	0.00%
190220	BURKE'S GARDEN TELEPHONE COMPANY INC.	-4.00%	1.14%	-5.08%	-9.41%	20.79%
190225	CITIZENS TELEPHONE COOP - VIRGINIA	-0.11%	4.81%	-4.70%	0.00%	0.00%
190226	CLIFTON FORGE WAYNESBORO TEL CO	-1.02%	3.86%	-4.70%	0.00%	0.00%
190233	CONTEL OF VIRGINIA, INC.	12.47%	11.27%	1.07%	48.65%	98.19%
190236	NORTH RIVER TELEPHONE COOPERATIVE	-3.14%	1.63%	-4.70%	0.00%	0.00%
190237	HIGHLAND TEL COOP - VIRGINIA	-2.30%	5.18%	-7.11%	-56.09%	-41.45%
190238	MOUNTAIN GROVE-WILLIAMSVILLE TEL. CO.	-5.59%	-1.69%	-3.96%	-16.82%	10.90%
190239	NEW HOPE TELEPHONE COMPANY - VA	-0.93%	3.96%	-4.70%	0.00%	0.00%
190243	PEMBROKE TELEPHONE COOPERATIVE	-1.32%	3.54%	-4.70%	0.00%	0.00%
190244	PEOPLES MUTUAL TEL CO - VA	0.53%	5.48%	-4.70%	0.00%	0.00%
190248	SCOTT COUNTY TEL. COOP. INC.	-1.64%	3.21%	-4.70%	0.00%	0.00%
190249	ROANOKE & BOTETOURT TEL. CO.	-11.44%	20.61%	-26.58%	-62.55%	-50.07%
190250	SHENANDOAH TEL. CO.	-0.58%	4.32%	-4.70%	0.00%	0.00%
190253	VIRGINIA HOT SPRINGS TEL. CO.	2.59%	7.65%	-4.70%	0.00%	0.00%
190254	CENTRAL TELEPHONE COMPANY OF VA	0.96%	10.29%	-8.46%	-100.00%	-100.00%
190479	GTE SOUTH INC. - VIRGINIA	-1.45%	2.81%	-4.14%	-12.36%	16.85%
190567	UNITED INTER-MOUNTAIN TELEPHONE CO-VA	-0.35%	3.34%	-3.58%	-19.94%	6.75%
195040	C & P TELEPHONE COMPANY OF VIRGINIA	3.34%	5.34%	-1.90%	0.00%	0.00%
TOTAL:	WASHINGTON	3.23%	3.52%	-0.28%	-15.07%	13.24%
522400	UNITED TELEPHONE CO OF THE NW - WA	-2.39%	4.02%	-6.17%	-18.57%	8.58%
522404	ASOTIN TELEPHONE COMPANY - WA	-1.46%	6.28%	-7.28%	-7.95%	22.73%
522408	TELEPHONE UTILITIES OF WA INC.	6.35%	8.09%	-1.60%	4.40%	39.20%
522410	COWICHE TELEPHONE CO. INC.	-3.39%	5.39%	-8.33%	-100.00%	-100.00%
522412	ELLENSBURG TELEPHONE COMPANY	11.81%	5.23%	6.26%	0.00%	0.00%
522416	GTE NORTHWEST INC. - WASHINGTON	-13.60%	3.35%	-16.40%	-100.00%	-100.00%
522417	HAT ISLAND TELEPHONE COMPANY	40.22%	11.90%	25.30%	200.99%	301.32%
522419	HOOD CANAL TELEPHONE COMPANY	-1.56%	4.82%	-6.08%	-16.64%	11.15%
522423	INLAND TELEPHONE COMPANY - WA	11.64%	7.23%	4.11%	18.54%	58.05%
522426	KALAMA TELEPHONE COMPANY	10.11%	3.27%	6.62%	47.02%	96.02%
522427	LEWIS RIVER TELEPHONE COMPANY INC.	-2.24%	4.74%	-6.67%	-19.90%	6.80%
522430	MCDANIEL TELEPHONE COMPANY	1.56%	6.57%	-4.70%	0.00%	0.00%
522431	MASHELL TELEPHONE COMPANY INC.	3.56%	5.03%	-1.41%	3.18%	37.58%
522436	PENINSULA TELECOMMUNICATIONS, INC.	-12.48%	2.89%	-14.94%	-99.25%	-98.99%

TABLE 3.5

National Exchange Carrier Association  
Universal Service Fund  
Individual Study Areas  
Percentage Changes from 1986 to 1987

STUDY AREA CODE	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND AFTER FULL TRANSITION	UNIVERSAL SERVICE FUND APPLICABLE TO LATER YEAR
WASHINGTON (CONT.)						
522437	PIONEER TELEPHONE COMPANY	-0.69%	-5.23%	4.80%	3.52%	38.03%
522442	ST. JOHN TELEPHONE CO.	-2.40%	4.16%	-6.29%	-19.89%	6.82%
522446	TENINO TEL. CO.	-2.80%	7.75%	-9.79%	-25.23%	-0.31%
522447	TOLEDO TELEPHONE COMPANY INC.	5.25%	4.07%	1.13%	10.26%	47.02%
522449	CONTEL OF THE NORTHWEST INC. - WA	-4.65%	8.59%	-12.19%	-21.96%	4.06%
522451	WESTERN WAHAKIACUM COUNTY TEL COMPANY	-19.78%	1.95%	-21.32%	-60.06%	-46.75%
522452	WHIDBEY TEL. CO.	6.70%	2.39%	4.21%	60.31%	113.75%
522453	YELM TELEPHONE COMPANY	3.16%	1.85%	1.29%	57.19%	109.59%
525161	PACIFIC NORTHWEST BELL-WASHINGTON	10.48%	3.23%	7.03%	0.00%	0.00%
TOTAL:	WEST VIRGINIA	4.71%	2.75%	1.90%	17.37%	56.49%
200256	ARMSTRONG TELEPHONE COMPANY - WV	0.23%	5.17%	-4.70%	0.00%	0.00%
200257	SPRUCE KNOB SENECA ROCKS TEL., INC.	-3.05%	1.73%	-4.70%	0.00%	0.00%
200259	HARDY TELEPHONE COMPANY	12.56%	3.42%	8.84%	23.34%	64.45%
200267	ARMSTRONG TELEPHONE COMPANY (RITCHIE)	-3.28%	1.49%	-4.70%	0.00%	0.00%
200270	MOUNTAIN STATE TELEPHONE CO.	-2.64%	1.74%	-4.31%	-7.49%	23.34%
200276	WAR TELEPHONE COMPANY	-8.27%	-3.74%	-4.70%	0.00%	0.00%
200277	WEST SIDE TELEPHONE COMPANY - WV	-2.42%	2.39%	-4.70%	0.00%	0.00%
200278	CONTINENTAL TEL CO OF WEST VIRGINIA	1.74%	4.90%	-3.01%	-1.62%	31.17%
200479	GTE SOUTH INC. - WEST VIRGINIA	14.16%	4.51%	9.24%	107.37%	176.50%
205050	C & P TELEPHONE COMPANY OF W VA	4.34%	2.56%	1.74%	14.36%	52.47%
TOTAL:	WISCONSIN	1.60%	5.34%	-3.56%	-37.34%	-16.45%
330841	CENCOM OF WISCONSIN INC.	-1.26%	0.45%	-1.70%	-13.72%	15.04%
330842	AMERY TELEPHONE COMPANY	-1.72%	-4.94%	3.38%	0.00%	0.00%
330843	AMHERST TELEPHONE COMPANY	-10.99%	5.67%	-15.77%	-100.00%	-100.00%
330844	BADGER STATE TELEPHONE CO INC.	2.63%	1.70%	0.92%	127.84%	203.79%
330846	BALDWIN TELCOM. INC.	-1.36%	3.51%	-4.70%	0.00%	0.00%
330847	BELMONT TELEPHONE COMPANY	-2.00%	2.84%	-4.70%	0.00%	0.00%
330848	BERGEN TELEPHONE COMPANY	0.60%	8.18%	-7.00%	-7.43%	23.43%
330849	BLACK EARTH TELEPHONE COMPANY	-3.25%	1.52%	-4.70%	0.00%	0.00%
330850	BLOOMER TELEPHONE COMPANY	0.84%	5.82%	-4.70%	0.00%	0.00%
330851	BONDUEL TELEPHONE COMPANY	-0.61%	3.35%	-3.83%	-100.00%	-100.00%
330855	BRUCE TELEPHONE COMPANY, INC.	-30.95%	-3.40%	-28.52%	-100.00%	-100.00%
330856	BURLINGTON BRIGHTON & WHEATLAND TEL	12.28%	1.76%	10.33%	0.00%	0.00%
330857	CASCO TELEPHONE COMPANY	-12.42%	-0.20%	-12.25%	0.00%	0.00%
330858	LAKESHORE TELEPHONE COMPANY	11.97%	3.44%	8.24%	0.00%	0.00%
330859	CENTRAL STATE TELEPHONE COMPANY	10.04%	4.63%	5.17%	53.24%	104.33%
330860	CHEQUAMEGON TELEPHONE COOP INC.	3.41%	4.69%	-1.23%	0.00%	0.00%
330861	CHIBARDUN TELEPHONE COOP INC.	4.56%	1.89%	2.63%	0.00%	0.00%
330863	CITIZENS TELEPHONE COOP INC - WI	-1.96%	2.87%	-4.70%	0.00%	0.00%
330865	CLEAR LAKE TELEPHONE CO INC - WI	-2.95%	1.84%	-4.70%	0.00%	0.00%
330866	COCHRANE COOPERATIVE TELEPHONE CO	0.50%	5.46%	-4.70%	0.00%	0.00%
330868	COON VALLEY FARMERS TELEPHONE CO., INC	-0.60%	4.30%	-4.70%	0.00%	0.00%
330870	CRANDON TELEPHONE COMPANY	2.51%	15.88%	-11.54%	-26.41%	-1.89%
330872	CUBA CITY TEL. EXCH. CO.	-3.40%	1.36%	-4.70%	0.00%	0.00%
330875	DICKEYVILLE TELEPHONE CO.	-2.75%	2.05%	-4.70%	0.00%	0.00%
330876	DODGE COUNTY TELEPHONE COMPANY	10.50%	-0.70%	11.28%	0.00%	0.00%
330877	FAIRWATER-BRANDON-ALTO TEL. CO.	-3.49%	1.27%	-4.70%	0.00%	0.00%
330879	FARMERS IND. TELEPHONE COMPANY - WI	0.09%	5.02%	-4.70%	0.00%	0.00%
330880	FARMERS TELEPHONE COMPANY - WI	-2.80%	2.00%	-4.70%	0.00%	0.00%
330881	MID-PLAINS TELEPHONE INC.	-2.33%	2.49%	-4.70%	0.00%	0.00%
330882	FENNIMORE TELEPHONE COMPANY	17.45%	1.21%	16.05%	0.00%	0.00%
330883	FOOTVILLE TELEPHONE COMPANY	-3.13%	3.98%	-6.84%	0.00%	0.00%
330884	FORESTVILLE TEL. CO. INC.	-2.28%	2.54%	-4.70%	0.00%	0.00%
330886	GTE NORTH INC. - WISCONSIN	4.45%	23.64%	-15.52%	-47.58%	-30.10%
330888	GREENWOOD TELEPHONE COMPANY	6.90%	2.23%	4.57%	0.00%	0.00%
330889	HAGER CITY TELEPHONE COMPANY	-16.09%	3.46%	-18.90%	-100.00%	-100.00%

TABLE 3.5

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WISCONSIN (CONT.)						
330891	HEADWATERS TEL. CO.	-8.11%	5.20%	-12.65%	-49.39%	-32.53%
330892	HILLSBORO TELEPHONE COMPANY INC.	16.98%	0.44%	16.47%	0.00%	0.00%
330895	CENTURY TELEPHONE OF WISCONSIN INC.	39.44%	6.15%	31.36%	0.00%	0.00%
330896	LAKEFIELD TELEPHONE COMPANY	-0.14%	4.79%	-4.70%	0.00%	0.00%
330898	LARSEN-READFIELD TEL. CO.	-10.88%	3.76%	-14.11%	0.00%	0.00%
330899	LA VALLE TELEPHONE COOPERATIVE	0.35%	5.30%	-4.70%	0.00%	0.00%
330900	LEMONWEIR VALLEY TEL. CO.	-18.22%	5.86%	-22.74%	-100.00%	-100.00%
330902	LUCK TELEPHONE COMPANY	1.42%	6.42%	-4.70%	0.00%	0.00%
330904	MADLINE ISLAND TEL. CO.	0.37%	10.04%	-8.79%	-31.83%	-9.10%
330905	MANAWA TELEPHONE COMPANY	-0.25%	0.94%	-1.18%	0.00%	0.00%
330907	MAPLE TELEPHONE COOP INC.	-4.82%	-0.35%	-4.48%	-29.72%	-6.29%
330908	MARQUETTE-ADAMS TEL. COOP. INC.	0.02%	-1.30%	1.34%	0.00%	0.00%
330909	MIDWAY TELEPHONE COMPANY	3.97%	3.01%	0.93%	0.00%	0.00%
330910	MILLTOWN MUTUAL TELEPHONE COMPANY	15.07%	6.34%	8.20%	0.00%	0.00%
330912	MONDOVI TELEPHONE COMPANY	-0.65%	4.24%	-4.70%	0.00%	0.00%
330913	MONROE COUNTY TELEPHONE COMPANY	0.26%	4.98%	-4.50%	0.00%	0.00%
330914	MOSEL & CENTERVILLE TELEPHONE CO	18.15%	4.43%	13.14%	0.00%	0.00%
330915	MOSINEE TEL. CO.	-0.80%	4.09%	-4.70%	0.00%	0.00%
330916	MOUNT HOREB TELEPHONE COMPANY	2.81%	-1.35%	4.21%	116.07%	188.10%
330917	MOUNT VERNON TELEPHONE COMPANY	21.09%	6.57%	13.62%	0.00%	0.00%
330918	NELSON TELEPHONE COOPERATIVE	-4.00%	0.73%	-4.70%	0.00%	0.00%
330920	NIAGARA TELEPHONE COMPANY	-6.20%	0.63%	-6.80%	0.00%	0.00%
330922	NORTH-WEST TELEPHONE COMPANY	-1.97%	2.09%	-3.98%	0.00%	0.00%
330924	NOVY'S TELEPHONE COMPANY	-2.06%	2.77%	-4.70%	0.00%	0.00%
330925	BAYLAND TELEPHONE INC.	0.76%	4.59%	-3.67%	0.00%	0.00%
330930	PEOPLES TELEPHONE COMPANY(MT HOPE)	-4.23%	1.24%	-5.40%	0.00%	0.00%
330931	PEOPLES TELEPHONE CO OF RANDOLPH	5.24%	1.47%	3.72%	268.09%	390.79%
330934	PLATTEVILLE TELEPHONE COMPANY	1.06%	1.42%	-0.36%	0.00%	0.00%
330936	INDIANHEAD TEL. CO.	-4.94%	2.58%	-7.33%	-15.24%	13.02%
330937	PRICE COUNTY TELEPHONE COMPANY	-3.13%	4.68%	-7.47%	-70.57%	-60.76%
330938	NORTHEAST TEL. CO.	-0.82%	4.07%	-4.70%	0.00%	0.00%
330940	RHINELANDER TEL. CO.	7.60%	-2.70%	10.59%	0.00%	0.00%
330941	RIB LAKE TELEPHONE COMPANY	-11.39%	0.67%	-11.98%	0.00%	0.00%
330942	RICHLAND-GRANT TEL. COOP. INC.	-3.97%	2.01%	-5.87%	0.00%	0.00%
330943	ROCK RIVER TELEPHONE COMPANY	-3.43%	3.28%	-6.50%	0.00%	0.00%
330944	ST. CROIX TEL. CO.	-2.58%	2.23%	-4.70%	0.00%	0.00%
330945	SCANDINAVIA TELEPHONE COMPANY	-4.51%	5.11%	-9.15%	0.00%	0.00%
330946	SHARON TEL. CO.	-3.45%	2.16%	-5.49%	0.00%	0.00%
330948	SHELL LAKE TEL. CO.	36.62%	0.33%	36.16%	0.00%	0.00%
330949	SIREN TELEPHONE CO., INC.	22.15%	3.67%	17.83%	0.00%	0.00%
330950	SOLON SPRINGS TEL. CO.	-0.00%	4.45%	-4.26%	0.00%	0.00%
330951	SOMERSET TEL. CO., INC.	1.06%	6.05%	-4.70%	0.00%	0.00%
330952	SOUTHEAST TEL. CO. OF WIS., INC.	-3.59%	4.20%	-7.48%	-100.00%	-100.00%
330953	SPRING VALLEY TEL. CO., INC.	-1.13%	3.74%	-4.70%	0.00%	0.00%
330954	STOCKBRIDGE & SHERWOOD TEL. CO.	8.11%	6.63%	1.39%	109.18%	178.90%
330955	STATE LONG DISTANCE TEL. CO.	-0.39%	4.52%	-4.70%	0.00%	0.00%
330956	UNIVERSAL TEL. CO. OF NORTHERN WIS. IN	4.17%	10.82%	-6.00%	-62.58%	-50.10%
330957	SULLIVAN TEL. CO.	1.45%	6.46%	-4.70%	0.00%	0.00%
330958	TENNEY TEL. CO.	-0.16%	4.77%	-4.70%	0.00%	0.00%
330959	THORP TELEPHONE COMPANY	-13.13%	1.95%	-14.79%	0.00%	0.00%
330960	TRI-COUNTY TEL. COOP. INC.-WI	-2.57%	2.24%	-4.70%	0.00%	0.00%
330961	TURTLE LAKE TELEPHONE CO INC.	9.06%	2.18%	6.73%	0.00%	0.00%
330962	UNION TELEPHONE COMPANY	-2.66%	2.15%	-4.70%	0.00%	0.00%
330963	UTELCO INC.	-0.97%	1.72%	-2.65%	0.00%	0.00%
330964	URBAN TELEPHONE CORPORATION	10.15%	1.72%	8.29%	0.00%	0.00%
330965	VALDERS TELEPHONE COMPANY	11.84%	2.98%	8.60%	0.00%	0.00%
330966	VERNON TELEPHONE COOP	-2.98%	1.80%	-4.70%	0.00%	0.00%
330967	VIROQUA TELEPHONE COMPANY	10.34%	-1.24%	11.73%	0.00%	0.00%
330968	WAUNAKEE TELEPHONE COMPANY	0.83%	5.80%	-4.70%	0.00%	0.00%
330970	WAYSIDE TELEPHONE COMPANY	-0.44%	4.47%	-4.70%	0.00%	0.00%

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WISCONSIN (CONT.)						
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330971	WEST WISCONSIN TELCOM COOP. INC.	0.03%	4.96%	-4.70%	0.00%	0.00%
330973	WITTENBERG TELEPHONE COMPANY	-17.58%	2.15%	-19.32%	-100.00%	-100.00%
330974	WOOD COUNTY TELEPHONE COMPANY	10.96%	1.19%	9.66%	0.00%	0.00%
335220	WISCONSIN BELL	0.31%	2.83%	-2.45%	0.00%	0.00%
-----						
TOTAL:	WYOMING	-4.87%	1.69%	-6.45%	-24.70%	0.40%
-----						
511595	UNITED TELEPHONE CO. OF THE WEST-WY	-0.89%	2.66%	-3.46%	0.00%	0.00%
512251	RANGE TEL. COOPERATIVE INC.-WY	-4.90%	-1.70%	-3.25%	-6.58%	24.56%
512289	CHUGWATER TELEPHONE COMPANY	31.24%	70.59%	-23.07%	-40.55%	-20.74%
512290	UTAH-WYOMING TELECOM WY	23.96%	-4.93%	30.40%	985.92%	1347.89%
512291	DUBOIS TELEPHONE EXCHANGE INC.	-7.44%	-0.77%	-6.72%	-11.82%	17.58%
512292	EDEN VALLEY TEL. CO.	1.70%	11.86%	-9.08%	-24.86%	0.19%
512294	MEDICINE BOW TELEPHONE COMPANY	-18.07%	3.56%	-20.88%	-100.00%	-100.00%
512295	SILVER STAR TEL. CO.- WY	2.50%	1.16%	1.32%	52.67%	103.56%
512296	TRI-COUNTY TEL. ASSN. INC.-WY	-8.80%	-7.76%	-1.13%	-8.39%	22.15%
512297	UNION TELEPHONE CO.	-19.67%	0.51%	-20.08%	-61.59%	-48.79%
512299	TELEPHONE UTILITIES OF WYOMING, INC.	-3.76%	-4.51%	0.78%	0.00%	0.00%
515108	MOUNTAIN BELL-WYOMING	-4.79%	1.81%	-6.48%	-25.60%	-0.80%
-----						
TOTAL:	INDUSTRY	2.52%	3.79%	-1.22%	4.43%	39.24%
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#### 4. Network Usage and Growth

The amount of traffic carried on the public switched network is a vital concern to the Joint Board and the Commission, since the interstate toll rate decreases that have accompanied the subscriber line charge increase were designed to make usage of the network more efficient and to stimulate traffic growth. To monitor use of this network, the National Exchange Carrier Association (NECA) provides monthly reports to the Commission on the volumes of switched interstate usage. To supplement this information, the Joint Board recommended that the larger local telephone companies also provide, on an annual basis, their total switched minutes of use, their interstate switched minutes of use, and their Subscriber Plant Factor (SPF), Subscriber Line Usage (SLU), and Dial Equipment Minutes (DEM) factors. The Joint Board recognized that much of 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).

This report includes data on switched telephone traffic as reflected in the NECA calculations of carrier common line (CCL) minutes of use from January 1987 through March 1989. Our March 1989 report included this cumulative data through December 1988. Table 4.1 shows the latest available figures on minutes of use for interstate traffic as reported by NECA, derived from the Common Line Pool earned revenues. Tables 4.2 and 4.3 show the figures for large (Tier 1) and small (non-Tier 1) companies, respectively. Since June 1986, these figures do not include the minutes from the closed end of WATS.

The Colorado Public Utility Commission (CPUC), filed a comment since our last report. Arguing that increased usage of a network does not necessarily imply increased efficiency, CPUC states that the Joint Board and Staff need statistics on LEC network capacities. <sup>1</sup> CPUC contends that, since efficiency of the public switched network is one of the stated goals in this proceeding, the Joint Board must determine whether increased efficiency is resulting from the imposition of the SLCs. CPUC asserts that this efficiency can best be determined by correlations of on-peak to off-peak usage and of network usage to marginal costs.

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1 Comments of Colorado PUC at 9.

TABLE 4.1

## NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.

SUPPLEMENTAL REPORT OF COMMON LINE POOL RESULTS  
REPORTED AS OF MAY, 1989

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

## TOTAL COMMON LINE POOL

(MOU REPORTED IN MILLIONS)

MONTH/YR	PREMIUM CCL MOUS			NONPREMIUM CCL MOUS		
	ORIGINATING	TERMINATING	TOTAL	ORIGINATING	TERMINATING	TOTAL
JAN 87	7,039.466	8,607.077	15,646.543	350.039	646.491	996.529
FEB 87	6,757.539	8,637.511	15,395.050	377.625	715.917	1,093.541
MAR 87	7,441.473	9,525.717	16,967.190	380.300	778.077	1,158.377
APR 87	7,168.191	9,225.271	16,393.462	367.364	721.803	1,089.167
MAY 87	7,082.193	8,984.814	16,067.007	326.238	691.939	1,018.177
JUN 87	7,501.460	9,392.501	16,893.961	290.955	720.191	1,011.146
JUL 87	8,239.696	9,492.600	17,732.296	353.466	695.794	1,049.260
AUG 87	7,549.113	9,551.588	17,100.701	258.917	703.650	962.566
SEP 87	7,485.326	9,735.625	17,220.951	252.593	686.255	938.848
OCT 87	7,739.474	10,221.968	17,961.442	237.928	653.657	891.585
NOV 87	7,650.255	9,710.345	17,360.600	219.567	616.529	836.095
DEC 87	8,540.132	10,554.653	19,094.786	262.283	599.360	861.643
JAN 88	7,994.079	10,121.106	18,115.185	186.618	579.013	765.631
FEB 88	8,066.210	10,237.733	18,303.943	193.150	592.353	785.503
MAR 88	8,598.556	11,180.761	19,779.318	186.795	593.648	780.443
APR 88	8,169.525	10,336.072	18,505.597	164.794	520.813	685.607
MAY 88	8,423.328	10,606.310	19,029.638	199.959	634.818	834.777
JUN 88	8,594.352	10,891.503	19,485.855	188.743	603.321	792.064
JUL 88	8,366.460	10,445.182	18,811.642	175.145	553.446	728.591
AUG 88	9,256.945	11,715.038	20,971.983	185.132	613.843	798.974
SEP 88	8,770.760	11,090.142	19,860.902	180.060	582.493	762.553
OCT 88	9,002.469	11,365.828	20,368.297	184.845	560.473	745.318
NOV 88	8,996.370	11,336.011	20,332.381	168.907	565.350	734.256
DEC 88	9,440.393	11,789.277	21,229.670	168.814	543.037	711.851
JAN 89	9,162.346	11,792.654	20,955.000	158.885	489.517	648.402
FEB 89	8,946.182	11,259.484	20,205.666	163.043	549.105	712.148
MAR 89	9,959.160	12,878.706	22,837.865	184.191	604.895	789.086

TABLE 4.2

NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.

SUPPLEMENTAL REPORT OF COMMON LINE POOL RESULTS  
 REPORTED AS OF MAY, 1989

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

TIER 1

(MOU REPORTED IN MILLIONS)

MONTH/YR	PREMIUM CCL MOUS			NONPREMIUM CCL MOUS		
	ORIGINATING	TERMINATING	TOTAL	ORIGINATING	TERMINATING	TOTAL
JAN 87	6,595.687	8,064.471	14,660.158	336.211	620.953	957.165
FEB 87	6,360.433	8,129.909	14,490.342	364.670	691.356	1,056.026
MAR 87	7,022.381	8,989.230	16,011.610	368.483	753.900	1,122.384
APR 87	6,750.388	8,687.559	15,437.947	355.000	697.510	1,052.510
MAY 87	6,652.940	8,440.204	15,093.144	313.037	663.940	976.977
JUN 87	7,061.798	8,841.994	15,903.792	280.062	693.235	973.297
JUL 87	7,740.998	8,918.045	16,659.042	340.579	670.427	1,011.005
AUG 87	7,081.133	8,959.458	16,040.591	248.551	675.481	924.032
SEP 87	7,044.441	9,162.153	16,206.594	242.300	658.292	900.592
OCT 87	7,294.265	9,633.935	16,928.200	228.248	627.069	855.317
NOV 87	7,192.353	9,129.125	16,321.478	208.596	585.727	794.324
DEC 87	8,067.544	9,970.547	18,038.091	249.747	570.710	820.457
JAN 88	7,504.075	9,500.688	17,004.763	177.034	549.288	726.322
FEB 88	7,610.539	9,659.366	17,269.905	182.262	558.944	741.205
MAR 88	8,140.814	10,585.562	18,726.376	174.993	556.138	731.131
APR 88	7,699.825	9,741.774	17,441.599	154.660	488.782	643.442
MAY 88	7,940.733	9,998.707	17,939.439	186.981	593.620	780.601
JUN 88	8,116.700	10,286.356	18,403.055	176.410	563.858	740.267
JUL 88	7,862.818	9,816.395	17,679.212	162.191	512.518	674.710
AUG 88	8,741.903	11,063.330	19,805.233	172.311	571.249	743.560
SEP 88	8,261.615	10,446.562	18,708.177	166.180	537.634	703.813
OCT 88	8,489.542	10,717.212	19,206.753	170.358	516.033	686.391
NOV 88	8,481.218	10,686.425	19,167.643	155.455	520.915	676.369
DEC 88	8,881.215	11,091.313	19,972.529	152.172	488.618	640.790
JAN 89	8,632.531	11,111.169	19,743.700	144.308	444.383	588.691
FEB 89	8,421.521	10,598.585	19,020.106	150.010	505.369	655.379
MAR 89	9,442.683	12,209.771	21,652.454	167.013	548.263	715.275

TABLE 4.3

## NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.

SUPPLEMENTAL REPORT OF COMMON LINE POOL RESULTS  
 REPORTED AS OF MAY, 1989

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

## NON-TIER 1

(MOU REPORTED IN MILLIONS)

MONTH/YR	PREMIUM CCL MOUS			NONPREMIUM CCL MOUS		
	ORIGINATING	TERMINATING	TOTAL	ORIGINATING	TERMINATING	TOTAL
JAN 87	443.779	542.606	986.385	13.827	25.537	39.365
FEB 87	397.106	507.602	904.708	12.954	24.561	37.515
MAR 87	419.092	536.487	955.579	11.817	24.176	35.993
APR 87	417.803	537.712	955.515	12.364	24.293	36.657
MAY 87	429.253	544.609	973.863	13.201	27.998	41.199
JUN 87	439.662	550.507	990.169	10.893	26.956	37.849
JUL 87	498.698	574.556	1,073.254	12.887	25.367	38.254
AUG 87	467.980	592.130	1,060.111	10.366	28.168	38.534
SEP 87	440.885	573.472	1,014.357	10.293	27.963	38.256
OCT 87	445.209	588.033	1,033.242	9.680	26.588	36.268
NOV 87	457.902	581.221	1,039.123	10.970	30.802	41.772
DEC 87	472.588	584.106	1,056.694	12.536	28.650	41.186
JAN 88	490.004	620.419	1,110.423	9.584	29.725	39.309
FEB 88	455.671	578.367	1,034.038	10.889	33.409	44.298
MAR 88	457.742	595.199	1,052.942	11.802	37.510	49.312
APR 88	469.700	594.298	1,063.998	10.134	32.030	42.165
MAY 88	482.595	607.604	1,090.199	12.978	41.198	54.176
JUN 88	477.652	605.148	1,082.800	12.333	39.464	51.797
JUL 88	503.642	628.787	1,132.430	12.954	40.927	53.882
AUG 88	515.042	651.708	1,166.750	12.820	42.594	55.414
SEP 88	509.144	643.580	1,152.724	13.881	44.859	58.740
OCT 88	512.927	648.617	1,161.544	14.487	44.440	58.927
NOV 88	515.152	649.586	1,164.738	13.452	44.435	57.887
DEC 88	559.178	697.964	1,257.142	16.641	54.420	71.061
JAN 89	529.816	681.485	1,211.300	14.578	45.134	59.711
FEB 89	524.661	660.899	1,185.560	13.033	43.736	56.769
MAR 89	516.476	668.935	1,185.411	17.178	56.632	73.810

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

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1 For a description of the methodologies used by the BLS in calculating price indexes, see Primer and Sourcebook on Telephone Price Indexes and Rate Levels, published by the FCC in April 1987.

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

	1935 to 1988	1978 to 1988
CPI all goods and services	4.2%	6.1%
CPI all services	4.6	7.5
CPI telephone services	2.2	4.3
CPI major categories		
- food & beverages	**	5.1
- housing	**	6.6
- apparel & upkeep	3.3	3.6
- transportation	3.9	5.8
- medical care	5.1	8.4
- entertainment	**	5.3
- other goods & services	**	7.9
CPI public transportation	5.0	9.1
CPI piped gas	3.8	7.1
CPI electricity	2.4	6.2
CPI sewer & water maintenance	**	7.2

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

\*\* Series not established until after 1935.

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 each of the last ten 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	4.0	4.4	-1.3
1988	4.5	4.4	1.3

C. Price Indexes for Local Service:

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

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



#### 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 two 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

#### 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. These tables also show the percent change in each series for 1989 through June, the latest month for which the BLS has published indexes.

TABLE 5.5

## Consumer Price Index Data

	All Goods & Services	All Telephone Services	Local Service	Interstate Toll Service	Intrastate Toll Service
1985 January	105.5	109.3	115.6	96.9	105.9
February	106.0	108.3	113.8	96.9	105.8
March	106.4	109.5	116.0	96.9	106.1
April	106.9	109.4	115.8	96.9	106.0
May	107.3	109.6	116.0	97.4	105.8
June	107.6	112.1	121.3	94.7	106.2
July	107.8	112.9	123.0	93.1	107.5
August	108.0	113.6	123.9	93.3	107.8
September	108.3	113.7	124.2	93.3	107.8
October	108.7	113.8	124.3	93.3	108.0
November	109.0	114.2	125.2	93.3	107.9
December	109.3	114.1	125.5	93.3	106.5
1986 January	109.6	114.6	126.2	93.3	106.7
February	109.3	114.8	126.4	93.3	107.0
March	108.8	115.3	127.2	93.3	107.1
April	108.6	116.5	129.5	93.3	106.8
May	108.9	116.5	129.5	93.3	106.9
June	109.5	118.7	135.6	88.0	106.7
July	109.5	118.7	137.0	84.7	106.7
August	109.7	118.8	137.2	84.4	107.0
September	110.2	118.3	136.5	84.4	106.5
October	110.3	118.9	137.5	84.4	106.8
November	110.4	117.6	135.1	84.4	106.5
December	110.5	117.2	134.4	84.5	106.8
1987 January	111.2	116.6	137.6	77.1	107.0
February	111.6	116.4	137.5	77.1	106.4
March	112.1	116.4	137.4	77.1	106.4
April	112.7	116.7	138.2	77.0	106.3
May	113.1	116.4	138.1	76.7	105.2
June	113.5	115.6	137.5	76.7	102.7
July	113.8	116.6	141.0	73.4	104.0
August	114.4	117.0	141.9	73.4	103.8
September	115.0	116.6	140.9	73.7	103.5
October	115.3	117.0	141.3	73.7	104.1
November	115.4	116.9	141.4	73.7	103.6
December	115.4	115.7	138.9	74.0	103.6
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
% change year to date December 88 to June 89	3.0%	0.3%	1.4%	-1.6%	-1.8%

TABLE 5.6

## Producer Price Index Data

	Local Services	Local Residential Services	Local Business Services	Optional Additional Local Usage	Local Coin Services
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
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	234.2
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	226.6	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	229.3	252.0	234.7	127.5	246.7
May	229.3	252.1	234.7	127.5	246.7
June	229.5	252.3	234.8	127.5	246.7
% change year to date December 88 to June 89	1.3%	2.0%	0.8%	-0.2%	0.2%

TABLE 5.6

## Producer Price Index Data

	Toll Service	Intrastate MTS	Interstate MTS	International MTS
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
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	122.4	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
% change year to date December 88 to June 89	1.3%	5.1%	-1.5%	0.0%

TABLE 5.6

## Producer Price Index Data

	WATS	WATS Interstate	WATS Intrastate
1985			
January	127.6	119.6	148.8
February	127.6	119.6	148.8
March	127.8	119.6	149.7
April	127.8	119.6	149.5
May	128.2	119.6	150.9
June	123.5	113.1	151.0
July	123.5	113.1	151.0
August	123.5	113.1	151.0
September	123.7	113.1	151.6
October	123.6	113.1	151.3
November	123.5	113.1	150.9
December	123.3	113.1	150.3
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
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	102.9	93.1	129.0
November	103.6	93.1	131.3
December	103.1	92.5	131.1
1989			
January	102.2	90.6	132.9
February	102.2	90.6	132.9
March	102.2	90.6	132.9
April	99.6	87.0	132.7
May	99.6	87.0	132.7
June	99.6	87.0	132.7
% change year to date December 88 to June 89	-3.4%	-5.9%	1.2%

## 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 1988, the national average for flat rate residential service was \$12.33 monthly. In October 1987 this average rate was \$12.44. Lower-priced service alternatives are frequently available, at an average monthly charge of \$5.62. <sup>2</sup>

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2 The methodology used in conducting the survey is contained in the Primer and Sourcebook on Telephone Price Indexes and Rate Levels. The most recent city specific data is contained in Telephone Rates Update, Mimeo No. 1509, released February 8, 1989.

Table 5.7  
Average Monthly Residential Telephone Rates\*  
(In October Of Each Year)

	1983	1984	1985	1986	1987	1988
Unlimited Local Calling	\$10.50	\$12.10	\$12.17	\$12.58	\$12.44	\$12.33
Subscriber Line Charges **	.00	.00	1.01	2.04	2.66	2.67
Taxes	1.08	1.25	1.36	1.51	1.56	1.59
<u>Total</u>	<u>11.58</u>	<u>13.35</u>	<u>14.54</u>	<u>16.13</u>	<u>16.66</u>	<u>16.59</u>
Lowest Generally						
Available Monthly Rate	\$ 5.37	\$ 5.62	\$ 5.75	\$ 5.96	\$ 5.81	\$ 5.62
Subscriber Line Charges **	.00	.00	1.01	2.04	2.66	2.67
Taxes	.56	.58	.70	.84	.94	.91
<u>Total</u>	<u>5.93</u>	<u>6.20</u>	<u>7.46</u>	<u>8.84</u>	<u>9.41</u>	<u>9.20</u>
Minimum Connection Charge	\$35.01	\$43.71	\$44.32	\$45.63	\$44.04	\$42.98
Taxes	1.75	2.19	2.22	2.28	2.20	2.11
<u>Total</u>	<u>36.76</u>	<u>45.90</u>	<u>46.54</u>	<u>47.91</u>	<u>46.24</u>	<u>45.09</u>

\* Monthly rates and connection charges do not include lifeline rates.

\*\* Includes both interstate and intrastate 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 local rate survey, reflecting data as of October 15, 1988, indicated that assistance for monthly service charges was offered in 55 of the 95 sample cities, representing 58% of urban consumers. Connection assistance was offered in 67 of the 95 sample cities representing 71% of urban consumers.

In the 55 cities where lifeline-type services were available, data were collected for the subsidized monthly rate for the service most similar to a private rotary line with unlimited local calling. In cities where the only subsidized service was a measured or message rate service, the charge includes 100 five minute day time calls. The average cost was \$10.32 for subsidized monthly service, including \$.27 for subscriber line charges and \$1.05 for tax. The average cost for comparable non-subsidized service was \$16.87 (including taxes and subscriber line charges) in those 55 cities. Thus, Lifeline and similar assistance programs provide an average benefit of \$6.55 per month.

Data also were collected for subsidized connection charges. The average subsidized connection cost was \$20.91, including \$.97 tax, in the 67 cities where subsidized connection was available. The average charge for non-subsidized connection was \$44.23 in these cities. Thus, Link Up and similar connection assistance programs reduce connection costs by an average of \$23.32.

#### Long Distance Rates

Table 5.8 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 June 1989. 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 39% for the average customer. This presentation of interstate toll levels was requested by the D.C. Public Service Commission.



Table 5.8  
Changes in the Price of Directly Dialed Long Distance Calls  
(AT&T Interstate Rates)

Calling Distance (in miles)		Five minute calls			Ten minute calls		
		Jan. 1984	June 1989	Percentage change	Jan. 1984	June 1989	Percentage change
1 - 10	Day	\$0.96	\$0.86	-10.4%	\$1.76	\$1.71	-2.8%
	Evening	0.57	0.58	1.1	1.05	1.15	9.1
	Night	0.38	0.45	17.7	0.70	0.89	27.0
11 - 22	Day	1.28	1.01	-21.1	2.38	2.01	-15.5
	Evening	0.76	0.68	-11.0	1.42	1.35	- 5.2
	Night	0.51	0.53	3.0	0.95	1.05	10.0
23 - 55	Day	1.60	1.11	-30.6	3.00	2.21	-26.3
	Evening	0.96	0.74	-22.5	1.80	1.48	-17.7
	Night	0.64	0.58	- 9.8	1.20	1.15	- 4.2
56 - 124	Day	2.05	1.15	-43.9	3.90	2.30	-41.0
	Evening	1.22	0.77	-36.8	2.34	1.54	-34.1
	Night	0.82	0.60	-27.1	1.56	1.20	-23.3
125 - 292	Day	2.14	1.16	-45.8	4.09	2.31	-43.5
	Evening	1.28	0.78	-39.3	2.45	1.55	-36.8
	Night	0.85	0.60	-29.0	1.63	1.20	-26.3
293 - 430	Day	2.27	1.16	-48.9	4.37	2.31	-47.1
	Evening	1.36	0.78	-42.9	2.62	1.55	-40.9
	Night	0.90	0.60	-33.0	1.74	1.20	-31.0
431 - 925	Day	2.34	1.21	-48.3	4.49	2.41	-46.3
	Evening	1.40	0.81	-42.1	2.69	1.61	-40.0
	Night	0.93	0.63	-32.3	1.79	1.25	-30.0
926 - 1910	Day	2.40	1.26	-47.5	4.60	2.51	-45.4
	Evening	1.44	0.84	-41.4	2.75	1.68	-39.1
	Night	0.96	0.66	-31.7	1.84	1.31	-29.1
1911 - 3000	Day	2.70	1.26	-53.3	5.15	2.51	-51.3
	Evening	1.62	0.84	-47.9	3.09	1.68	-45.6
	Night	1.08	0.66	-39.3	2.06	1.31	-36.6
3001 - 4250	Day	2.80	1.51	-46.1	5.35	3.01	-43.7
	Evening	1.68	1.01	-39.8	3.21	2.02	-37.2
	Night	1.12	0.79	-29.9	2.14	1.57	-26.9

4251 - 5750	Day	2.91	1.61	-44.7	5.56	3.21	-42.3
	Evening	1.74	1.08	-38.0	3.33	2.15	-35.4
	Night	1.16	0.84	-27.8	2.22	1.67	-24.8

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 5.9 presents the level of these charges over time.

Table 5.9

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 Present	3.50	4.94	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 (so few that the nationwide average remains unchanged) 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. Beginning on April 1, 1989, all centrex lines are 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 5.10 shows the history of the average levels of these charges.

Table 5.10

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 Present	1.00	1.78	3.0	9.1

1/ Prior to 4/1/89, these 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. During early 1989, the amount of rate increases requested and pending before state commissions totaled only about \$100 million. During 1987 and 1988, 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 5.11.

The information in Table 5.11 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 5.11

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	4,023.7	3,875.5	
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	1,627.2	1,154.9	
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	643.7	290.0	
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	146.3	-519.0	
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>36.4</u>	<u>-530.9</u>	219.5
Total	378.9	-1,366.4	
1989 First quarter	31.1	-206.9	86.3

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 5.12.

Table 5.12  
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.

\*\*\* updated since prior report.

### Comments Filed

The Colorado Public Utility Commission (CPUC) provided comments on the second 90 day study that bear on rates and revenues. CPUC states that the decline in interstate rates does not offset the loss of social welfare caused by the increase in local rates. CPUC describes subscriber line charge policies as Ramsey pricing, which it says is a form of monopoly pricing that regulation should prevent. Furthermore, CPUC claims that the demand for toll service is inelastic, and therefore questions the extent of benefits from the toll price reductions. CPUC urges evaluation of the extent to which tax reform has lowered rates since July 1, 1987.

The Chessler report, which was filed by the Missouri Public Service Commission, states that from 1980 to 1986 overall telephone rates rose more rapidly than overall inflation. See section 3 for his analysis of the causes. Chessler notes that rates fell in 1987, but attributes this change to reduced tax rates. Chessler describes rate changes since 1984, showing that local rates have risen while interstate toll rates have fallen. He concludes that typical households have been hurt more by local rate increases than they have been helped by toll rate declines. Chessler argues that published price indexes understate overall rate decreases because they do not cover some services, such as Centrex and private line. He presents an index, based on industry output level and revenues, which shows an overall price increase for the telephone industry of 42% from 1980 to 1986, compared with a 51% increase shown by the CPI for all telephone service over the same period, and a 33% increase in the overall CPI during those years.

## 6. Bypass

The Regional Bell Operating Companies (RBOCs) and GTE have issued their third bypass reports. Some of these carriers have changed their methodology for estimating bypass and these changes are described in the various bypass report excerpts below. The reporting carriers claim that bypass is still a threat. The total estimated revenue lost, based on annualized 1988 rates, is \$3.5 billion. The estimated loss of minutes of use (MOU) is 99.8 billion minutes. In the October 1988 reports, total estimated revenues lost due to bypass were \$3.7 billion and the total MOU were estimated to be 99.7 billion minutes. One of the changes in analysis that make the third bypass report different from the second bypass report is the use of rates in effect in December 1988, instead of the higher rates in effect in June 1988. A summary of the estimated bypass loss by company is in Table 6.1.

The carriers have also reported many new bypass examples. We note that since these are just examples, their totals cannot be regarded as totals for all new bypass. We have not computed such totals. They are, however, an indication that bypass remains significant in certain locations. As several companies have noted, some types of bypass are difficult to detect until long after they occur. There may always be a reporting lag which must be accounted for in future reports. The number of reported bypass abandonments is small. These reports indicate that most of the new bypass examples cited economic considerations as the primary reason for bypassing.

The Joint Board recommended that the frequency of bypass reports from the Regional Bell Companies and GTE be reduced from twice a year to once a year, to be filed by the end of April of each year through 1992.<sup>1</sup> The Commission adopted this recommendation.<sup>2</sup> Both the Joint Board and the

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1 MTS and WATS Market Structure, 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. 78-72, 80-286, and 87-339, FCC 89J-3, Second Study and Report, released March 24, 1989, at para. 66.

2 Establishment of a Program to Monitor the Impact of Joint Board Decisions, CC Docket No. 87-339, FCC 89-223, Order, released June 30, 1989, at para. 10.



Table 6.1  
 Estimated Revenue Losses Due to Bypass - Annualized on 1988 Rates  
 (Millions of Dollars)

Company	Facility Switched Voice (a)	Facility Private Line (b)	Total Facility (c) (a+b)	Switched Service (d)	Total Bypass Facility and Service (e) (c+d)	Percent of Total Facility (f) (c/e)	Service (g) (d/e)	Service & Facility Minutes of Use Loss Estimates (Billions)
Ameritech	331.5	138.4	469.9	329.1	799.0	59%	41%	22.3
Bell Atlantic	270.7	135.7	406.4	361.6	768.0	53%	47%	22.3
BellSouth	30.1	19.1	49.2	169.4	218.6	23%	77%	6.8
GTE	55.8	7.6	63.4	151.4	214.8	30%	70%	4.1
NYNEX	140.3	86.3	226.6	212.1	438.7	52%	48%	11.9
Pacific Telesis	51.7	10.1	61.8	332.1	393.9	16%	84%	8.6
Southwestern Bell	69.0	138.6	207.6	124.5	332.1	63%	37%	12.3
US West	40.2	21.6	61.8	313.2	375.0	16%	84%	11.5
Totals	989.3	557.4	1,546.7	1,993.4	3,540.1	44%	56%	99.8

Commission have recognized that improvements in the bypass reports are possible.<sup>3</sup> They have solicited comments regarding such possible improvements, and they have asked their staffs to develop and implement any modifications in the bypass reports that may be appropriate. The Joint Board specifically sought comment from bypass users and providers, and the Commission specifically sought comment on the various definitions, assumptions, and methodologies that are used to estimate bypass.

We are considering expanding the bypass reports to address concerns regarding the adequacy and usefulness of the bypass data filed in this docket. We propose that each annualized revenue loss (or gain) column and each estimated revenue loss line reported on the bypass data reporting forms be accompanied by an additional column or line estimating the cost offsets that would have been incurred by the LEC if they had provided the bypassed service. Cost offsets would include expenses that would have been incurred in providing the service as well as the return on investment that would have been allocated to the provision of the service. We request that parties comment on this proposal. While comments may be submitted at any time in this open docket, they would be most useful to the staff if they are submitted by October 31, 1989.

#### Bypass Reports from Carriers

The following are excerpts of the descriptive materials submitted by the carriers in their April 1989 bypass reports.

#### Ameritech

"The first report, submitted April 29, 1988, listed all known examples of facility and service bypass in the Ameritech Region through the date of the report. The second report, submitted October 31, 1988, listed additional examples discovered between the dates of the first and second reports. This third report lists additional examples discovered between the dates of the second and third reports.

This third bypass report estimates that over 8 billion minutes of use of switchable traffic is being carried annually by alternatives to Ameritech Operating Companies' switched network services (Facility Bypass - switched services diverted). In addition, it estimates that more than 126 thousand voice grade equivalent circuits divert to private facilities what could

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3 Second Study and Report at para. 63-65, Order, at para. 12-13.

otherwise be Ameritech Operating Company dedicated private line traffic (Facility Bypass - Private Line services diverted). Finally, this report estimated that over 13 billion minutes of switchable traffic are being carried via Ameritech Operating Company provided dedicated access services (Service Bypass - switched service substitution).

These figures, when compared with those reported previously, demonstrate that the amount of facility bypass of the public switched network is growing and substantial. When one combines the minutes of use diverted from the switched network by facility bypass with those minutes diverted from the switched network by service bypass, one can see the dimension of the growing amount of switchable traffic which avoids the Carrier Common Line charges. All three types of bypass reported, measured in terms of minutes of use or voice grade equivalent circuits, have grown consistently from reporting period to reporting period.

The estimated revenue losses associated with facility and service bypass were developed on a state-specific basis. In compliance with the FCC request, rates in effect as of December 31, 1988 were used to estimate 'Revenue Lost', and the estimates of minutes lost were developed using data from the month of December, 1988....

The reported estimated revenue losses represent revenues that could have been received by the Ameritech Operating Companies if all facility and service bypass traffic had been carried on the Companies' network as switchable traffic. The period-to-period change in estimated revenue loss is affected by fluctuations in the average prices of equivalent switched minutes and dedicated services. As a result, revenue losses reported cannot simply be compared with previous revenue loss amounts since each report uses a different set of effective rates in the calculation. Caution must be exercised when using these amounts."

#### Bell Atlantic

"This report demonstrates that the threat of bypass remains strong within the Bell Atlantic region with the annual loss in minutes of use estimated to be 22.3 billion. This reflects a decrease of 3.9% below Bell Atlantic's October 1988 report. This decrease in minutes, combined with lower rates, has resulted in a decrease in equivalent switched access revenues associated with these minutes, of 7.6%, to \$768 million. In its October 1988 report, Bell Atlantic reported an estimated annual loss due to bypass of 23.2 billion minutes of use equating to \$832 million in switched access revenues. In its initial report submitted in April 1988, and subsequently updated in June 1988, Bell Atlantic reported an estimated annual loss due to bypass of 22.9 billion minutes of use equating to \$858 million in switched access revenues. However, due to changes in methodology, it is not possible to compare the results of Bell Atlantic's initial report directly with the results presented herein or with those presented in October 1988.

Increases in subscriber line charges and concomitant decreases in the carrier common line rate as well as the elimination of mandatory nationwide pooling which became effective April 1, 1989, will further help in bringing switched access rates in line with costs, thereby allowing a more economic choice between the public network and private facilities.

In order that future bypass reports be more consistent, the Federal-State Joint Board staff in its June 1988 Monitoring Report established specific time frames to be utilized in compiling bypass data. As result, for this third report, rates in effect on December 31 1988 were utilized to quantify 'Revenue Lost', and the annualized estimate of minutes lost was developed using data from the month of December 1988.

In its previous reports Bell Atlantic has cited 199 specific cases of bypass within its seven jurisdictions. In this report an additional 61 cases have been identified.... Not all of these cases represent new bypass since the October 1988 report, some are older cases which have only recently been specifically identified. The specific cases of bypass presented in this report and in previous reports are merely representative of the bypass being experienced within Bell Atlantic and are not intended to be an exhaustive listing of all actual bypass losses.

In this report Bell Atlantic has also identified two additional cases of end-users abandoning bypass facilities and returning to the public switched network.... While there may be other examples, Bell Atlantic has no specific knowledge of their existence...."

#### BellSouth

"Facility Bypass estimates were based upon the number of voice grade equivalent (VGE) microwave, fiber, VSAT, and other bypass technology circuits (excluding video) in the region. The microwave circuits were identified in an April, 1989 Spectrum Planning Report by determining the interlata (interstate and intrastate) two-point and multi-point routes....

There were numerous microwave circuits in all bands being used for bypass. In the calculation of Facility Bypass Revenue Loss ... we omitted circuits used by interexchange carriers, public utilities, state and local governments, and railroad companies. They were omitted because these circuits are frequently used to meet specialized needs; thus, making it difficult to determine if they are being used for bypass of the public switched network. The omission of these circuits ... caused a conservative estimated loss of Facility Bypass.

VSAT bypass estimates are included in this report. Since there is no requirement for a corporation that is applying for a license to identify end user locations, it was difficult to estimate revenue loss....

To determine the Switched Access Revenue Loss, the VGE circuits used to bypass were multiplied by a utilization factor of 83 percent.... This product was multiplied by a switchable voice grade percentage ... to determine the number of switchable voice grade bypass circuits. The estimated Minutes of Use (MOU) loss associated with the bypass circuits, were determined and multiplied by an average Switched Access rate per minute to produce the estimated Switched Access revenue loss. The private line circuits were determined by multiplying the number of VGE's (after applying the utilization factor) times the non-switched voice grade percentage.... These circuits were multiplied by an average rate per circuit to produce the estimated Private Line revenue loss. The estimated Switched Access revenue loss and estimated Private Line revenue loss were summed to produce an annual Facility Bypass revenue loss of \$49,175,426 for the BellSouth Region. The revenue loss for Facility Bypass in this filing exceeds the revenue loss for the October 31, 1988 filing by \$6M.

The increase of \$6M is attributed to the following factors:

1. Additional data collection revealed VSAT bypass that was not included in the second report.
2. The Count of VGE's used to determine facility bypass increased more than 22% in this filing when compared to the October, 1988 filing.

Service Bypass estimates were derived by determining the total number of Voice Grade and HICAP Special Access lines operating between POPs and End Users in BellSouth. Circuits used to carry switchable voice transmission were extracted from the total and multiplied by an average MOU per line to produce the estimated MOU's lost to Service Bypass.

Service Bypass minutes decreased more than 15 percent since BellSouth's second filing, and more than 26 percent since the initial filing.

...The revenue loss for Service Bypass in this filing is \$44M less than the October 31, 1988 filing.

The decrease of \$44M in Service Bypass is attributed to the following factors:

1. The count of VGE's used to determine service bypass decreased by more than 13% in this filing when compared to the October, 1988 filing.
2. The maximum voice percentage in the Voice to Data ratios in this filing decreased by 6%, which caused a reduction of over 780M bypass minutes. This reduction in minutes occurred when

Bell South applied its October voice percentage in this analysis. Also, in Florida the voice percentages decreased over 18%.

3. The switched access rates per minute used in this filing are decreases when compared to the rates used in the October, 1988 filing.

This report includes only the new cases of services and total bypass identified since the October 31, 1988 filing. These new cases represent \$1.8M in additional bypass.

There are two cases of bypass abandoned for this report. One was a microwave user in Florida, and the other was a microwave user in Louisiana. Both returned to the LEC for service. These cases represent \$1.2M in revenue."

### GTE

"Similar to the previous report submitted October 27, 1988, this analysis contains the baseline for Interstate and Intrastate/Interlata service bypass and Interstate facility bypass. Each subsequent study will address the incremental impact of bypass and the results will be reflected in the summary report and thus will become a part of the new baseline. The estimated Minutes-of-Use and Revenue Loss in this submission is based on bypass technologies that are in service as of December 1988. The studies presented here for the seven study areas were prepared under the direction of GTE Telephone Operations.

A formal study for facility bypass was not done for this submission due to cost considerations and the assumed minimal change in facility bypass activity since the October 27, 1988 submission. Facility bypass numbers reflect the current average Interstate switched access rate for bypass calculations.

Users that have abandoned or discontinued use of their bypass system and returned to the switched network are extremely difficult to identify. Presently, we have no knowledge of any specific cases....

The reduction in Net Revenue Loss from the previous submission is attributed to the decrease in Carrier Common Line Charge Rate as well as the mix in the Voice equivalent Channels....

Other findings of this study are as follows:

- . 10% of services are 2-Wire Voice Equivalent Channels
- . 61% of services are 4-Wire Voice Equivalent Channels
- . 29% of services are HiCap Voice Equivalent Channels

- . Users are migrating to HiCap...
- . Of the total Bypass Minutes-of-Use:
  - 23% are from Facility Bypass
  - 77% are from Service Bypass
- . The annual equivalent Total Bypass MOU for the seven sample GTE study areas as a percentage of the 1988 total Interstate and Intrastate/InterLATA actual Switched Access MOU are as follows:

	<u>INTERSTATE</u>	<u>INTRASTATE</u>	<u>TOTAL</u>
CALIFORNIA	18	9	15
FLORIDA	16	11	14
HAWAII	8	N/A	8
ILLINOIS	33	19	27
N. CAROLINA	33	13	28
TEXAS	28	13	22
WASHINGTON	25	9	22
TOTAL	20	12	18

- . The present growths of Service Bypass Minutes Loss since the last submission, October 27, 1988, are as follows:

	<u>INTERSTATE</u>	<u>INTRASTATE</u>	<u>TOTAL</u>
CALIFORNIA	1.14	1.58	1.27
FLORIDA	-3.14	-39.96	-15.57
HAWAII	-13.66	N/A	-13.66
ILLINOIS	-15.47	-2.42	-8.74
N. CAROLINA	11.75	3.52	10.52
TEXAS	35.13	14.68	29.79
WASHINGTON	35.75	19.26	33.10
TOTAL	7.81	-8.87	2.77"

#### NYNEX

"The Third Bypass Report shows that the NYNEX Telephone Companies are losing approximately \$439 million annually to facility and service bypass. In terms of switched access minutes of use 'MOUs', the annual loss is estimated at approximately 11.9 billion within the NYNEX region...

As part of a continuing effort to refine our measurement of bypass, the NYNEX Telephone Companies incorporated into the Third Bypass Report additional

sources of bypass data and updated factors used in our bypass estimation methodology....

The Third Bypass Report also includes customer specific data on 43 customers whose bypass activity represents revenue losses of over six million dollars. These customers were not reported previously in either the First or Second Report. It should be understood that customer specific data is only a sample of customers that engage in bypass in the NYNEX region. In addition, the NYNEX Telephone Companies have been unable to identify any specific instances of customers abandoning their bypass strategies.

Although the basic methodology used by the NYNEX Telephone Companies to forecast service and facility bypass has remained essentially unchanged since the First Bypass Report, the NYNEX Telephone Companies have continued to update and reevaluate the factors used in the bypass estimation methodology.

Using current data from the Carrier Access Billing System, the NYNEX Telephone Companies have updated the following factors used to estimate bypass.

<u>Factor</u>	<u>NYT</u>		<u>NET</u>	
	<u>Old</u>	<u>New</u>	<u>Old</u>	<u>New</u>
Voice/Data Ratio				
Facility Bypass	58%	56%	50%	48%
Service Bypass	61%	60%	53%	51%
Fill Factor	51%	52%	48%	51%

...Due to the evolving nature of this study, the NYNEX Telephone Companies have reevaluated, improved and/or updated data sources used to estimate facility bypass associated with fiber, microwave, and for the first time, VSAT technology. Earlier estimates of bypass attributable to fiber were based on an economic investment crossover analysis. For this Bypass Report, the NYNEX Telephone Companies have developed market penetration data which more accurately reflects the eroding effect of alternative local transport providers....

Our estimate of microwave bypass has also been updated based on new microwave license data supplied by our vendor. Many additional private microwave systems used for bypass were identified. However, some of these systems may have been in operation prior to the First and Second Bypass Report study period. Because data on the actual activation date for these systems is unavailable, bypass associated with these additional microwave systems was counted as growth in the current period.



The Third Bypass Report also includes for the first time an estimate of bypass associated with VSAT technology. To estimate revenue lost to VSAT bypass, the NYNEX Telephone Companies assumed that the VSAT per site cost displaces an equal dollar amount of LEC services, plus an assumed 20% cost savings. NYNEX estimated that the average monthly cost per VSAT location is \$350. This estimate includes average costs for master earth station, space segment costs and terminal costs.... To determine MOUs lost to VSAT bypass, NYNEX estimated that the displaced LEC services are equal to 8.4 VGE per VSAT site, which was multiplied by the fill factor, voice/data ratio and assumed minutes of use....

Based on a comparison of our Second and Third Bypass Reports, the NYNEX Telephone Companies estimate that revenue lost to bypass is growing at an average annual rate of 35 percent. When measured in terms of MOUs, bypass is growing at an average annual rate of 19 percent.... This level of bypass growth is not inconsistent with the fact that use of the public switched network is also growing. A bypass analysis filed on February 17, 1989 by Shooshan and Jackson, Inc., indicates that a pattern of large increase in residential traffic on the public switched networks as well as large decreases in business traffic is consistent with large scale bypass....

Moreover, an analysis of MOU data contained in the Third Bypass Report indicates that facility bypass is growing at a substantially faster rate than service bypass. NYNEX observes that the share of bypass revenue loss due to facility bypass (both switched and private line) has grown from 37 percent in the Second Bypass Report to 52 percent in this report.

Lastly, NYNEX has compared the VGEs which underlay both the revenue and minutes of use loss estimates in order to further explain any variance between the facility and service bypass growth estimates. The total annualized VGE growth rate is 42.5 percent, while VGEs used to estimate facility bypass are growing at a rate of 165 percent. By contrast, the growth in service bypass VGE's is only 10.7 percent....

As shown above, the NYNEX Bypass Reports filed to date indicate that the amount of the public switched network is substantial and growing...."

#### Pacific Telesis

"Facility bypass identified in this report is based on an analysis of interLATA Private Microwave licenses within Pacific Bell's territory. Pacific Bell has continued to experience rapid growth in private microwave bypass.

Only limited information is available on carrier bypass since carriers and alternative access providers are not required to report these situations. Some examples of carrier bypass have been included in our estimate.

Pacific Bell expects to experience a significant increase in carrier bypass due to increased interest in the California market. Several carriers have been granted authority (and others are pending) to provide dedicated service within California....

Since the October Report, Pacific has experienced a 15% increase in interLATA facility bypass of both voice and data. This is based on a comparison of MOU and private line losses....

It is evident, from the Facility Bypass-Private Line example, that revenue loss may not be the best measurement of bypass. Average rate per circuit decreased 39% and caused a revenue decrease despite the fact that the number of circuits has increased 15%. This gives the casual observer the false impression that bypass is decreasing.

Several factors have contributed to the decrease in the average rate of voice grade and HiCap service....

For this reason, Pacific Bell recommends that future reports concentrate on the Minutes of Use and Private Line circuit losses as opposed to the revenue losses. A comparison of year-over-year MOU and private line circuit losses will enable consistent trending without the distortion caused by access price changes.

These facility bypass losses are understated since they are based on a conservative analysis of Comsearch private microwave data... and do not include other forms of facility bypass such as fiber, VSAT, satellite etc....

Service bypass has experienced a 5% increase in the estimated MOUs lost and a 13% increase in the revenue loss. The estimated revenue loss is being impacted by the previously mentioned change in the average rate per circuit. Though the number of special access lines increased, Pacific Bell experienced a decrease in the revenue received from these lines....

Pacific Bell expects that Service Bypass revenue loss reported in our next report will be significantly higher....

The total revenue loss for the April 1989 report is \$378 million, a 12% increase over the total October 1988 loss of \$338 million.

Pacific Bell agrees with the Joint Board's recommendation that future bypass reports be on an annual basis and that the next report be due in April of 1990. This will allow future reports to:

- o Focus on year end results,
- o Gather and analyze additional case information, and
- o Pursue data on alternative bypass methods not previously reported or analyzed.

Year end trending should give a better picture of bypass. Every six months is too frequent to see significant changes in the data, since most bypass examples are not identified immediately upon implementation.

A more accurate representation of bypass in California could be provided should the FCC require that Alternative Access Providers report their volumes for inclusion in our analysis.

In addition, Pacific Bell would like to recommend that future reports focus on minute-of-use (MOU) and private line losses as opposed to revenue losses. This would enable us to trend our losses in a consistent manner and not be subject to the variables caused by the access price changes. Continued price decrease could result in a false measure of bypass if the focus remains on lost revenue....

Since the October Report, Nevada Bell has been unable to identify any new bypass examples for inclusion in the April 1989 report, nor have any examples of abandoned or discontinued bypass been recorded. The small deviation in minutes of use for Facility Bypass switched was caused by an updated ratio of Interstate/Inter-IntraLATA and Intrastate/InterLATA messages used to derive private line minutes of use.

The larger variation in facility bypass switched revenue loss from the \$3.4M reflected in October 1988 to the \$2.7M reflected in this report is, at best, misleading. On October 17, 1988 Nevada Bell filed to decrease rates in switched access to prospectively earn the authorized 12% rate of return.

While this report complies with the Monitoring Report, CC Docket No. 87-339, March 1989, which states in part, that bypass reports due in April should use rates in effect on December 31 to quantify 'Revenue Loss', it merely reflects a decrease in prices that took place in the 4th quarter 1988.

In addition, the increase in Service Bypass minutes of use is caused by inclusion of Intrastate/InterLATA voice grade circuits inadvertently omitted from the October, 1988 report. Again, the revenue loss reduction from \$13.3M last October to the \$11.1M reflected with this report is merely an example of price change rather than a significant measurement of Bypass Losses...."

#### Southwestern Bell

"Several of the examples of bypass documented in this report are designated as 'previously reported'. Since Southwestern Bell continues to monitor documented cases of bypass to determine cases of abandoned bypass, increased bypass activity at those end user locations can also be discovered. SWBT has distinguished between those cases of increased activity and newly discovered cases of bypass.

Although it is the Joint Board's desire to build a time series of data, and SWBT supports this effort, SWBT continues to advise caution regarding the

comparison of aggregate bypass losses over time. While the SWBT method for estimating aggregate losses has remained constant between the second and third reports, a very short time series of data has been accumulated. Certainly the data gathered to date can offer very little support for general analysis and conclusions, other than the conclusion that no unanticipated changes in the level of bypass have occurred.

At the very least, any comparisons of bypass losses must be based on minutes of use (or circuits in the case of facility bypass replacing private lines). A comparison of revenue losses could be very misleading, given that the rates for both switched access and special access have fallen between the first and second, and the second and third reports. For example, the average switched access rate per minute access all SWBT states fell by an average of 18% between the first and second reports, and 3.4% between the second and third reports. If a simple comparison of revenue losses were made without adjusting for the rate reductions, the conclusions could certainly be in error."

#### US West

"... the differences between this filing and previous filings... include changes in methodology and assumptions, as well as a comparison and analysis of results. The comparison analysis is based on bypass loss of switched access usage and special access circuits rather than revenue loss. This is done in order to maintain consistency between the bypass reports, and recognizes the fact that revenue loss estimates can be influenced (positively or negatively) by rate changes for switched and special access.

The estimated MOU loss to facility bypass-switched... increased from 768 million MOU to 785 million MOU accounting for a 2% increase over the October, 1988 filing. Likewise, the estimated number of private line circuits loss to facility bypass-private line... increased from 14,441 circuits to 14,753 circuits corresponding to a 2% increase over the October, 1988, filing....

The calculated estimates of Facility Bypass Loss,... are inclusive of historical as well as new occurrences. The Examples of Facility Bypass... are incremental, i.e., facility bypass which occurred in the August -December 1988 time period.

The estimated MOU loss to service bypass (excluding DS3 demand) decreased from 11.2 billion MOU to 10.7 billion MOU, a 5% decrease, when compared to the October, 1988 filing.... Likewise, a 7% MOU decrease (excluding DS3 demand) was estimated between the April and October, 1988 (12.1 and 11.2 billion MOU respectively). Although we are experiencing a steady decrease in voice grade special access circuits, DS3 usage has increased between each filing. Thus, we do not believe that service bypass has decreased. We strongly feel that this result has occurred because our current methods do not account for service bypass to DS3 High Capacity special

access services. Our methods have not been able to incorporate service bypass to DS3, because DS3, services have been offered on an Individual Case Basis.... From a practical standpoint, this has precluded our ability to include DS3 demand and revenue data in the service bypass loss calculations. MTN, NWB and PNB filed transmittal No. 239 on April 10, 1989 which proposes a standard rate structure and rates for DS3 service. When that filing becomes effective DS3 services will then be billed and accounted for in our Carrier Access Billing System (CABS). This will allow us to include DS3 revenues and demand in our service bypass calculation in future filings.

The cross elastic demand effects between DS1s and DS3s are stimulating DS3 market acceptance and penetration, thus triggering shifts from DS1 to DS3. Initial documentation of DS3 demand is presented in US West's December, 1988 Access Tariff Review Plan. Based on historical demand figures, a 77.2% growth in DS3s was realized between January, 1988 through September, 1988. Forecasted DS3 growth through December, 1989 anticipates a 59.2% increase over September, 1988 actuals. The DS3 forecast was based on ICB pricing procedures.

Currently, US West's service bypass losses are underestimated because losses, usage and revenue, attributed to DS3s have not been included due to the Individual Case Basis (ICB) pricing of DS3s. Upon the inclusion of DS3s into the CABS billing system, US West anticipates an increase rather than a decrease in service bypass.

The estimates of Service Bypass Loss calculation, usage and revenue,... are inclusive, reflecting historical as well as new occurrences. The examples of service bypass... are incremental, identifying only known DS1 examples which are not included in the April and October, 1988 filings."

#### Comments Filed

The following are excerpts of comments related to bypass filed in this docket since the last monitoring report, that were not summarized in the order related to the frequency and timing of the monitoring and bypass reports. <sup>4</sup>

#### State of Colorado Public Utilities Commission

"The CPUC is compelled to comment on the phenomenon of bypass, and the extent of damage various forms of telecommunications bypass may be causing. But first, we find it necessary to establish some rigid guidelines regarding the definition of bypass. The CPUC recommends that the Joint Board work

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<sup>4</sup> See Order, at para. 3-9, for summaries of those comments.

toward an agreement over what constitutes harmful bypass so we can put aside the inflated service and economic bypass numbers which are misleading and detracting from our purpose here. The Joint Board should develop an understanding of how forms of bypass may constitute a complimentary good. The existence of bypass may have an overall positive influence on the public switched network. Without a universal understanding of exactly what bypass is and what forms of it are harmful and what forms are not, the data collection and interpretation will only lead to futility and flawed policy decisions.

Once a definition of harmful bypass is formulated, it will be necessary to clearly establish a link between the level of the SLC and the amount of bypass. If a strict definition of bypass has not yet been formulated, then it is not possible to correlate the potency of the SLC as a bypass deterrent. Until a definition of harmful bypass has been established, and a link between this type of bypass and the level of the SLC has been established, then the final increase in the SLC from \$3.20 to \$3.50 is unwarranted.

The Joint Board needs to concern itself with the phenomenon of uneconomic bypass. Economic and service bypass may be a positive phenomenon for purposes of economic efficiency. We believe that the LEC's bypass reports thus far have been deceptive and harmful to our goals of truthful determination of the negative effects of bypass.

As the CPUC stated previously in its most recent comments... net bypass needs to be considered by the Joint Board. Net bypass figures are important because the extent of bypass can be reduced by taking into account the number bypassers who return to or increase their use of the public switched network as well as those who return to or increase their use of forms of economic and service bypass. The CPUC encourages the monitoring of migration to forms of economic bypass.

We commend SWBT for its most recent bypass study. It employs a method which we think should be applied to subscribership.... While we applaud the method used by SWBT, it ignores several very important bypass considerations. These have been discussed previously by the CPUC. Some of the missing considerations are the complimentary nature of bypass, high growth rates in telephony which make it difficult for one firm to garner sufficient capital, the difference between economic and uneconomic bypass.... "

#### Public Utilities Commission of Ohio

"The PUCO has conducted no studies concerning the occurrence of LEC bypass in Ohio, nor do we know of any statewide analyses which may have been conducted by LEC's or others. In our May 21, 1984 Opinion and Order in Case No. 83-464-TP-CIO, the PUCO found insufficient evidence to support the view that a threat of uneconomic bypass was imminent. Consequently, we decided not to institute intrastate end user charges.

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

In addition, the PUCO has approved several optional toll calling plans on either a permanent or experimental basis. These plans provide discounted toll services to large residential and business end users and, as such, provide less incentive for those customers to bypass the public switched network.

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

## 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 Telecom, GTE, NYNEX, Pacific Telesis, Rochester Telephone, Seneca-Gorham Telephone, Southern New England Telephone, Southwestern Bell, US West, United Telephone Systems, and Warwick Valley.

The latest nationwide pool earned revenue figures through March 1989, provided by NECA, are shown in Tables 7.1 through 7.5. Table 7.1 shows the total CCL pool revenues. Table 7.2 shows the pool revenues for Tier I companies. Table 7.3 shows the revenues for non-Tier I companies. Table 7.4 summarizes the CCL pool revenues and expenses for the first three months of 1989. Table 7.5 has corresponding figures for NECA's voluntary traffic sensitive pool.

The first report on the dimensions of long term support and transitional support payments among the LECs, drawn from NECA tariff filings, follows. Table 7.6 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 factor in the second column will decline by .2 each year over a five year transition period. Table 7.7 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 7.8 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 7.9 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 terminating CCL rates being charged by the Bell companies <sup>1</sup> and GTE, as well as the NECA rate for those companies remaining in the NECA

---

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.



pool. For comparison purposes, the rate that NECA would have had to establish in absence of long term support payments is also shown.

On May 1, 1989, the Public Utilities Commission of Ohio (PUCO) filed comments on the effect of intrastate depooling in Ohio. It says that an intrastate pool was established in 1984 and terminated in 1987. A revised compensation plan became effective in 1988. PUCO says that the cessation of intrastate pooling has had no apparent negative impact on Ohio LECs. It notes that no LECs have filed for rate increases since the revised compensation plan has been in effect, nor has there been an application for hardship relief promulgated by any adverse impacts of the plan.

TABLE 7.1

NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.

SUPPLEMENTAL REPORT OF COMMON LINE POOL RESULTS  
 REPORTED AS OF MAY, 1989

N E C A CCL EARNED REVENUES

TOTAL COMMON LINE POOL

(REVENUE REPORTED IN MILLIONS)

MONTH/YR	PREMIUM CCL EARNED REVENUE			NONPREMIUM CCL EARNED REVENUE		
	ORIGINATING	TERMINATING	TOTAL	ORIGINATING	TERMINATING	TOTAL
JAN 87	109.112	372.686	481.798	2.450	12.607	15.057
FEB 87	104.742	374.004	478.746	2.643	13.960	16.604
MAR 87	115.343	412.464	527.806	2.662	15.172	17.835
APR 87	111.107	399.454	510.561	2.572	14.075	16.647
MAY 87	109.774	389.042	498.816	2.284	13.493	15.776
JUN 87	116.273	406.695	522.968	2.037	14.044	16.080
JUL 87	56.854	411.030	467.884	1.096	13.568	14.664
AUG 87	52.089	413.584	465.673	0.803	13.721	14.524
SEP 87	51.649	421.553	473.201	0.783	13.382	14.165
OCT 87	53.402	442.611	496.014	0.738	12.746	13.484
NOV 87	52.787	420.458	473.245	0.681	12.022	12.703
DEC 87	58.927	457.016	515.943	0.813	11.688	12.501
JAN 88	N/A	419.014	419.014	N/A	10.770	10.770
FEB 88	N/A	423.842	423.842	N/A	11.018	11.018
MAR 88	N/A	462.884	462.884	N/A	11.042	11.042
APR 88	N/A	427.913	427.913	N/A	9.687	9.687
MAY 88	N/A	439.101	439.101	N/A	11.808	11.808
JUN 88	N/A	450.908	450.908	N/A	11.222	11.222
JUL 88	N/A	432.431	432.431	N/A	10.294	10.294
AUG 88	N/A	485.003	485.003	N/A	11.417	11.417
SEP 88	N/A	459.132	459.132	N/A	10.834	10.834
OCT 88	N/A	470.545	470.545	N/A	10.425	10.425
NOV 88	N/A	469.311	469.311	N/A	10.516	10.516
DEC 88	N/A	399.656	399.656	N/A	8.308	8.308
JAN 89	N/A	399.771	399.771	N/A	7.490	7.490
FEB 89	N/A	373.815	373.815	N/A	8.182	8.182
MAR 89	N/A	418.558	418.558	N/A	8.831	8.831

TABLE 7.2

## NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.

SUPPLEMENTAL REPORT OF COMMON LINE POOL RESULTS  
REPORTED AS OF MAY, 1989

PAGE 1 OF 1

## N E C A CCL EARNED REVENUES

## TIER 1

(REVENUE REPORTED IN MILLIONS)

MONTH/YR	PREMIUM CCL EARNED REVENUE			NONPREMIUM CCL EARNED REVENUE		
	ORIGINATING	TERMINATING	TOTAL	ORIGINATING	TERMINATING	TOTAL
JAN 87	102.233	349.192	451.425	2.353	12.109	14.462
FEB 87	98.587	352.025	450.612	2.553	13.481	16.034
MAR 87	108.847	389.234	498.081	2.579	14.701	17.280
APR 87	104.631	376.171	480.802	2.485	13.601	16.086
MAY 87	103.121	365.461	468.581	2.191	12.947	15.138
JUN 87	109.458	382.858	492.316	1.960	13.518	15.479
JUL 87	53.413	386.151	439.564	1.056	13.073	14.129
AUG 87	48.860	387.945	436.804	0.771	13.172	13.942
SEP 87	48.607	396.721	445.328	0.751	12.837	13.588
OCT 87	50.330	417.149	467.480	0.708	12.228	12.935
NOV 87	49.627	395.291	444.918	0.647	11.422	12.068
DEC 87	55.666	431.725	487.391	0.774	11.129	11.903
JAN 88	N/A	393.328	393.328	N/A	10.217	10.217
FEB 88	N/A	399.898	399.898	N/A	10.396	10.396
MAR 88	N/A	438.242	438.242	N/A	10.344	10.344
APR 88	N/A	403.309	403.309	N/A	9.091	9.091
MAY 88	N/A	413.946	413.946	N/A	11.041	11.041
JUN 88	N/A	425.855	425.855	N/A	10.488	10.488
JUL 88	N/A	406.399	406.399	N/A	9.533	9.533
AUG 88	N/A	458.022	458.022	N/A	10.625	10.625
SEP 88	N/A	432.488	432.488	N/A	10.000	10.000
OCT 88	N/A	443.693	443.693	N/A	9.598	9.598
NOV 88	N/A	442.418	442.418	N/A	9.689	9.689
DEC 88	N/A	375.996	375.996	N/A	7.476	7.476
JAN 89	N/A	376.669	376.669	N/A	6.799	6.799
FEB 89	N/A	351.873	351.873	N/A	7.530	7.530
MAR 89	N/A	396.818	396.818	N/A	8.005	8.005

TABLE 7.3

## NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.

SUPPLEMENTAL REPORT OF COMMON LINE POOL RESULTS  
 REPORTED AS OF MAY, 1989

PAGE 1 OF 1

## N E C A CCL EARNED REVENUES

## NON-TIER 1

(REVENUE REPORTED IN MILLIONS)

MONTH/YR	PREMIUM CCL EARNED REVENUE			NONPREMIUM CCL EARNED REVENUE		
	ORIGINATING	TERMINATING	TOTAL	ORIGINATING	TERMINATING	TOTAL
JAN 87	6.879	23.495	30.373	0.097	0.498	0.595
FEB 87	6.155	21.979	28.134	0.091	0.479	0.570
MAR 87	6.496	23.230	29.726	0.083	0.471	0.554
APR 87	6.476	23.283	29.759	0.087	0.474	0.560
MAY 87	6.653	23.582	30.235	0.092	0.546	0.638
JUN 87	6.815	23.837	30.652	0.076	0.526	0.602
JUL 87	3.441	24.878	28.319	0.040	0.495	0.535
AUG 87	3.229	25.639	28.868	0.032	0.549	0.581
SEP 87	3.042	24.831	27.873	0.032	0.545	0.577
OCT 87	3.072	25.462	28.534	0.030	0.518	0.548
NOV 87	3.160	25.167	28.326	0.034	0.601	0.635
DEC 87	3.261	25.292	28.553	0.039	0.559	0.598
JAN 88	N/A	25.685	25.685	N/A	0.553	0.553
FEB 88	N/A	23.944	23.944	N/A	0.621	0.621
MAR 88	N/A	24.641	24.641	N/A	0.698	0.698
APR 88	N/A	24.604	24.604	N/A	0.596	0.596
MAY 88	N/A	25.155	25.155	N/A	0.766	0.766
JUN 88	N/A	25.053	25.053	N/A	0.734	0.734
JUL 88	N/A	26.032	26.032	N/A	0.761	0.761
AUG 88	N/A	26.981	26.981	N/A	0.792	0.792
SEP 88	N/A	26.644	26.644	N/A	0.834	0.834
OCT 88	N/A	26.853	26.853	N/A	0.827	0.827
NOV 88	N/A	26.893	26.893	N/A	0.826	0.826
DEC 88	N/A	23.661	23.661	N/A	0.833	0.833
JAN 89	N/A	23.102	23.102	N/A	0.691	0.691
FEB 89	N/A	21.942	21.942	N/A	0.652	0.652
MAR 89	N/A	21.740	21.740	N/A	0.827	0.827

TABLE 7.4

NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.  
SUMMARY OF POOL RESULTS FOR THE MONTH ENDING MARCH 31, 1989  
REPORTED AS OF MAY 31, 1989

COMMON LINE (CL) (Note 1)	CURRENT MONTH	1989 POOL YEAR (Note 2)
Carrier Common Line (CCL) Earned Revenue		
Premium	\$418,807,751	\$1,191,819,259
Non-premium	\$8,581,646	\$24,827,235
Special Access Surcharge	\$4,228,304	\$13,266,313
CCL Net Realized Uncollectibles	\$31,273	\$226,148
CCL Net Earned Revenue	\$431,586,428	\$1,229,686,659
End User Earned Revenues	\$442,542,913	\$1,323,387,809
End User Net Realized Uncollectibles	\$2,512,007	\$6,851,748
End User Net Earned Revenues	\$440,030,906	\$1,316,536,061
Total Common Line Net Earned Revenues	\$871,617,334	\$2,546,222,720
CL Income from Interest Charged Construction	\$16,002	\$42,728
Total Common Line Revenues	\$871,633,336	\$2,546,265,448
NECA Administrative Cost	\$3,518,990	\$10,148,343
Average Schedule Company Settlements	\$24,215,503	\$73,984,938
Common Line Expenses and other Taxes	\$593,412,913	\$1,719,912,043
Common Line Adjusted Federal Income Tax	\$50,025,759	\$145,614,221
Universal Service Fund (effective 1/1/86)	\$21,067,139	\$63,201,417
Total Common Line Costs	\$692,240,304	\$2,012,860,962
Common Line Residue for Distribution (Note 3)	\$179,393,032	\$533,404,486
Common Line Net Investment	\$16,425,105,261	\$16,411,013,166
Annualized Common Line Residue Ratio (Note 4)	13.11%	13.00%

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

Note 2: The 1989 pool year is for the period beginning January 1, 1989 through the CURRENT MONTH. The Net Investment is an average of the cumulative months reported.

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

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

TABLE 7.5

NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.  
SUMMARY OF POOL RESULTS FOR THE MONTH ENDING MARCH 31, 1989  
REPORTED AS OF MAY 31, 1989

TRAFFIC SENSITIVE (TS) (Note 1)	CURRENT MONTH	1989 POOL YEAR (Note 2)
TS Earned Revenue	\$46,748,455	\$140,315,122
TS Net Realized Uncollectibles	\$614	\$2,227
TS Net Earned Revenue	\$46,747,841	\$140,312,895
TS Income From Interest Charged Construction	\$8,067	\$22,214
Total Traffic Sensitive Revenues	\$46,755,908	\$140,335,109
Average Schedule Company Settlements	\$17,336,461	\$52,887,501
TS Expenses and other Taxes	\$19,969,060	\$59,258,216
TS Adjusted Federal Income Tax	\$1,835,574	\$5,436,063
Total Traffic Sensitive Expenses	\$39,141,095	\$117,581,780
TS Residue For Distribution (Note 3)	\$7,614,813	\$22,753,329
TS Net Investment	\$721,928,634	\$723,966,066
Annualized Traffic Sensitive Residue Ratio (Note 4)	12.66%	12.57%

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

Note 2: The 1989 pool year is for the period beginning January 1, 1989 through the CURRENT MONTH. The Net Investment is an average of the cumulative months reported.

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

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

TABLE 7.6

**LEVEL 1 RECEIVERS  
TRANSITIONAL SUPPORT AMOUNTS**

<b>LEVEL 1 RECEIVER</b>	<b>(1) TRS BASE AMOUNT</b>	<b>(2) TRANSITION FACTOR</b>	<b>(3) 1989 SUPPORT</b>
<b>BELL SOUTH</b>	<b>\$152,788,132</b>	<b>.8</b>	<b>\$122,230,506</b>
<b>U.S. WEST</b>	<b>\$15,320,963</b>	<b>.8</b>	<b>\$12,256,770</b>
<b>GTE CORPORATION</b>	<b>\$226,483,047</b>	<b>.8</b>	<b>\$181,186,438</b>
<b>UNITED TELEPHONE SYSTEM I</b>	<b>\$44,527,892</b>	<b>.8</b>	<b>\$35,622,313</b>
<b>CONTEL CORPORATION</b>	<b>\$68,626,929</b>	<b>.8</b>	<b>\$54,901,543</b>
	<b>=====</b>		<b>=====</b>
	<b>\$507,746,962</b>		<b>\$406,197,569</b>
	<b>=====</b>		<b>=====</b>

TABLE 7.7

LEVEL 1 CONTRIBUTORS  
TRANSITIONAL SUPPORT AMOUNTS

LEVEL 1 CONTRIBUTOR	(1)	(2)	(3)
	1989 TRS TOTAL	PERCENT CONTRIBUTION	1989 PAYMENT*
SOUTHERN NEW ENGLAND TEL.	\$406,197,570	0.026122	\$10,610,848
AMERITECH	\$406,197,570	0.380588	\$154,593,995
BELL ATLANTIC	\$406,197,570	0.435675	\$176,970,252
NYNEX SVC. CO.	\$406,197,570	0.029541	\$11,999,599
PACIFIC TELESIS	\$406,197,570	0.038315	\$15,563,538
SOUTHWESTERN BELL	\$406,197,570	0.042507	\$17,266,274
CINCINNATI BELL-OHIO	\$406,197,570	0.021582	\$8,766,503
CENTEL CORPORATION	\$406,197,570	0.012336	\$5,010,801
ROCHESTER TELEPHONE CORPO	\$406,197,570	0.012358	\$5,019,799
HARNICK VALLEY	\$406,197,570	0.000881	\$357,704
SENECA-GORHAM TEL. CORP.	\$406,197,570	0.000094	\$38,257
	=====		=====
	\$406,197,570		\$406,197,570
	=====		=====

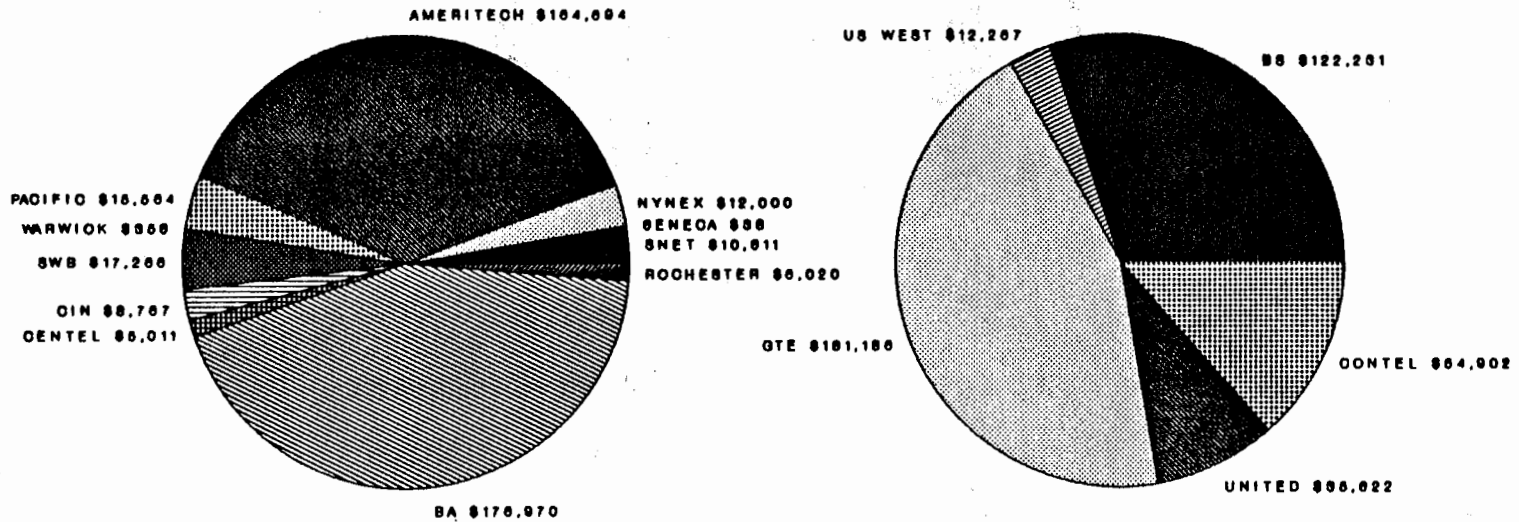
\* DIFFERENCES DUE TO ROUNDING. PERCENT CONTRIBUTION MUST BE TAKEN TO THE TWELFTH DECIMAL PLACE FOR PRECISE CALCULATION.



CHART 7.1

# 1989 TRANSITIONAL SUPPORT (\$'S IN THOUSANDS)

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CONTRIBUTORS  
\$406,197,570

RECEIVERS  
\$406,197,569

TABLE 7.8

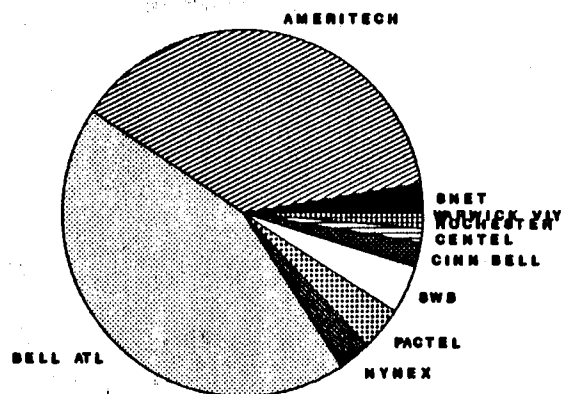
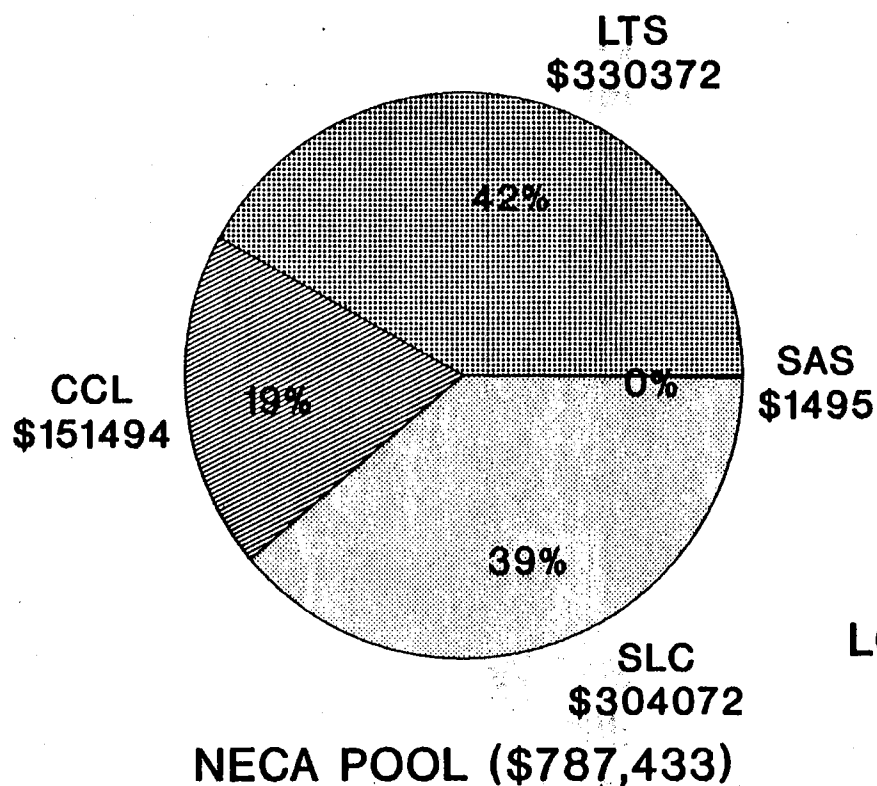
LEVEL 1 CONTRIBUTOR LONG TERM SUPPORT PAYMENTS FOR 4/1/89 THROUGH 12/31/89

LEVEL 1 CONTRIBUTOR -----	(1) 1989 LTS AMOUNT -----	(2) CONTRIBUTION FACTORS -----	(3) ANNUAL LTS * -----
SOUTHERN NEW ENGLAND TEL.	\$330,372,208	0.026122	\$8,630,108
AMERITECH	\$330,372,208	0.380588	\$125,735,758
BELL ATLANTIC	\$330,372,208	0.435675	\$143,935,014
NYNEX SVC. CO.	\$330,372,208	0.029541	\$9,759,621
PACIFIC TELESI8	\$330,372,208	0.038315	\$12,658,275
SOUTHWESTERN BELL	\$330,372,208	0.042507	\$14,043,158
CINCINNATI BELL-OHIO	\$330,372,208	0.021582	\$7,130,050
CENTEL CORPORATION	\$330,372,208	0.012336	\$4,075,429
ROCHESTER TELEPHONE CORP	\$330,372,208	0.012358	\$4,082,748
MARWICK VALLEY	\$330,372,208	0.000881	\$290,931
SENECA-GORHAM TEL. CORP.	\$330,372,208	0.000094	\$31,115
			=====
			\$330,372,208
			=====

\* DIFFERENCES DUE TO ROUNDING. CONTRIBUTION FACTORS MUST BE TAKEN TO THE TWELFTH DECIMAL PLACE FOR PRECISE CALCULATION

CHART 7.2

# 1989 NECA COMMON LINE POOL SOURCES OF REVENUE ('000s)



LONG TERM SUPPORT (LTS)

TABLE 7.9

LEVEL 1 CONTRIBUTORS  
LTS AND TRS SUPPORT AMOUNTS  
BASED UPON \$ 0.0100 ORIGINATING RATE  
AND \$ 0.0178 TERMINATING RATE

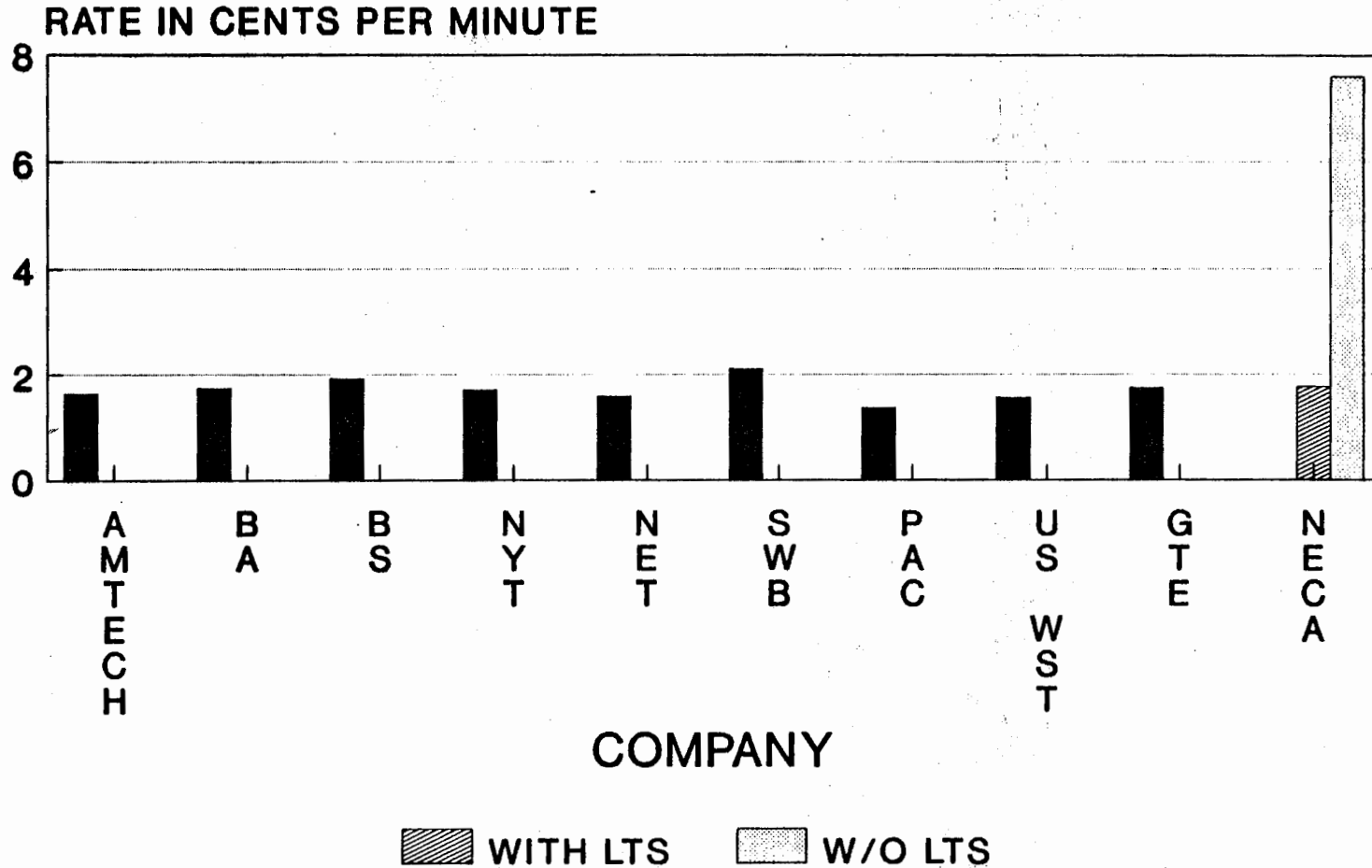
LEVEL 1 CONTRIBUTOR	(1) 1989 LTS AMOUNT	(2) CONTRIBUTION FACTORS	(3) ANNUAL LTS * COL.1 X COL.2	(3) ANNUAL TRS *	(5) TOTAL SUPPORT COL.5 + COL.4
SOUTHERN NEW ENGLAND TEL.	\$330,372,208	0.026122	\$8,630,108	\$10,610,848	\$19,240,956
AMERITECH	\$330,372,208	0.380588	\$125,735,758	\$154,593,995	\$280,329,753
BELL ATLANTIC	\$330,372,208	0.435675	\$143,935,014	\$176,970,252	\$320,905,266
NYNEX SVC. CO.	\$330,372,208	0.029541	\$9,759,621	\$11,999,599	\$21,759,220
PACIFIC TELESIS	\$330,372,208	0.038315	\$12,658,275	\$15,563,538	\$28,221,813
SOUTHWESTERN BELL	\$330,372,208	0.042507	\$14,043,158	\$17,266,274	\$31,309,432
CINCINNATI BELL-OMIO	\$330,372,208	0.021582	\$7,130,050	\$8,766,503	\$15,896,553
CENDEL CORPORATION	\$330,372,208	0.012336	\$4,075,429	\$5,010,801	\$9,086,230
ROCHESTER TELEPHONE CORP	\$330,372,208	0.012358	\$4,082,748	\$5,019,799	\$9,102,547
WARWICK VALLEY	\$330,372,208	0.000881	\$290,931	\$357,704	\$648,635
SENECA-GORMAN TEL. CORP.	\$330,372,208	0.000094	\$31,115	\$38,257	\$69,372
			***** \$330,372,208 *****	***** \$406,197,570 *****	***** \$736,569,778 *****

\* DIFFERENCES DUE TO ROUNDING. PERCENT CONTRIBUTION MUST BE TAKEN TO THE TWELFTH DECIMAL PLACE FOR PRECISE CALCULATION.

CHART 7.3

# SUMMARIZED TERMINATING CCL RATES

ORIGINATING RATE AT \$.01



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ACTUAL RATES EFFECTIVE 4-1-89

## 8. Jurisdictional Shifts in Revenue Requirements

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

In 1987, the Commission adopted the recommendations of the Joint Board in Docket No. 86-297 which conformed separations procedures to the revised Uniform System of Accounts and simplified those procedures. The Commission also adopted the Joint Board's recommendation that review of the jurisdictional revenue requirement shifts resulting from these changes be included in the monitoring plan. Pursuant to the Commission's decision, no formal reports from carriers on jurisdictional shifts in revenue requirements are due until thirty days after the date that the reporting model and guidelines are released by the Commission.<sup>1</sup> At that time, shifts occurring during calendar year 1988 will be reported by carriers.

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

Subsequent to the Commission's adoption of the Joint Board's recommended monitoring plan, further separations issues arose. The Commission reconsidered its decision regarding the separations procedures for marketing expenses, and decided that, on an interim basis, billings for access charges should be included in the allocation factor for these expenses.<sup>2</sup> The Commission was concerned, as were the state members of

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1 Establishment of a Program to Monitor the Impact of Joint Board Decisions, CC Docket No. 87-339, 4 FCC Rcd 3459 (1989).

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

the Joint Board, that the revenue requirement impact of the exclusion of access revenues from the allocation factor had not been fully tested in the conformance proceeding. The Commission referred this issue to the Joint Board in CC Docket No. 80-286 and requested that the Joint Board recommend a permanent solution. The Joint Board adopted an Order Inviting Comments and Request for Data regarding this issue on May 4, 1988.<sup>3</sup> In addition, the Commission acted on petitions for reconsideration regarding other aspects of the revised separations procedures.<sup>4</sup>

### Reconsideration Order

In the Monitoring Reconsideration Order,<sup>5</sup> the Commission acted on a Petition for Clarification and Reconsideration filed by Pacific Bell and Nevada Bell (Pacific Companies) on October 28, 1987, which raised the issue of the appropriate reporting procedures for jurisdictional revenue requirement shifts. Specifically, the Pacific Companies requested that the Commission clarify or modify its request to permit LECs to report simulated, rather than actual, impacts on revenue requirements of the new separations rules. The Pacific Companies proposed to use modeling techniques to simulate actual revenue requirement impacts.

Several parties filed responsive pleadings. USTA supported the Pacific Companies' petition. The Ameritech Operating Companies (Ameritech) and Southwestern Bell Telephone Company (Southwestern) contended that no reconsideration was necessary because the decisions of the two Joint Boards and the Commission do not require the use of dual accounting and separation procedures and do not prohibit the use of modeling techniques to calculate revenue requirement shifts. These parties agreed, however, with the Pacific Companies' concern that the Commission clarify this issue. In addition, the New York Department of Public Service (New York) requested that the Commission expand the monitoring program to include an assessment of the

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3 Amendment of Part 36 of the Commission's Rules and Establishment of a Joint Board, CC Docket No. 80-286, 3 FCC Rcd 2774 (1988).

4 MTS and WATS Market Structure, Amendment of Part 67 (New Part 36) of the Commission's Rules and Establishment of a Federal-State Joint Board, CC Docket Nos. 78-72, 80-286 and 86-297, 3 FCC Rcd 5518 (1988).

5 Establishment of a Program to Monitor the Impact of Joint Board Decisions, CC Docket No. 87-339, FCC 88-244, released July 19, 1988.

cumulative nationwide effect of all the revisions that have resulted from the recent separations decisions. New York also requested that the Commission assess the impact resulting from changes in the allocation of depreciation reserve deficiencies.

In the Monitoring Reconsideration Order, at paras. 26-30, the Commission clarified its preferred method for reporting jurisdictional shifts in revenue requirements. The Commission endorsed the interpretation of Ameritech and Southwestern. The Commission stated that the Joint Board and the Commission did not intend to request that LECs report actual, rather than modeled, data in reporting jurisdictional shifts in revenue requirements but, rather, intended to allow carriers to use modeling as a technique to calculate the revenue requirement impact of the new Separations Manual. The Commission noted that to report actual data, carriers would be required to maintain dual accounting systems and perform complex and costly studies, which would contravene the goal of simplifying the separations process. The Commission accordingly clarified that in complying with its request for reports on jurisdictional shifts in revenue requirements, LECs may report data using a modeling approach rather than report actual data.

The Commission stated that although several modeling approaches had been proposed by the industry to determine jurisdictional shifts in revenue requirements, the use of one approach by the entire industry is necessary for a meaningful and accurate analysis of the results. The Commission therefore stated that it would establish a modeling technique that will be used by all carriers in reporting jurisdictional shifts in revenue requirements. The Commission solicited suggestions, to be filed in the open docket in this proceeding, of approaches to the modeling of revenue requirement impacts and requested that such proposals be as specific as possible, with appropriate illustrative examples. The Commission specifically requested that USTA, the Pacific Companies, Ameritech and Southwestern submit their suggested techniques. Comments suggesting modeling approaches were filed August 30, 1988.<sup>6</sup> Reply comments were

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6 Comments were filed by American Telephone and Telegraph, Ameritech, BellSouth, MCI, Pacific Telesis, Southwestern Bell, and the United States Telephone Association.



filed September 20, 1988. <sup>7</sup> These comments will be summarized in the Order that selects the model to be used.

In addition, the Commission declined to expand the monitoring program as suggested by New York, stating that neither the Joint Board, nor the Commission, intended the monitoring program to be a comprehensive, all-encompassing review of the impact of every recent separations decision. The Commission stated that both Joint Board and the Commission instead intended the program to be a review of certain specific changes in the Commission's rules that the Joint Board estimated would have certain expected impacts. The Commission added that the request for reports of jurisdictional shifts in revenue requirements was intended to confirm that the impact of separations conformance to accounting changes and of separations simplification would be as the Joint Board and the Commission expected. The remainder of the program, the Commission continued, was intended to monitor the effect of certain changes in subscriber line charges, the federal lifeline assistance programs, the high cost assistance formula, and the common line pooling system. The Commission stated that expansion of the monitoring program as suggested by New York would not further the goals of this proceeding and would exceed the purposes of both Joint Boards and of the Commission in establishing the program. Moreover, the Commission noted that the impact of the separations revisions not included in the monitoring program, such as changes in Central Office Equipment procedures, had been fully considered and adequately addressed in Docket No. 80-286 and need not be revisited. In addition, the Commission declined to expand the monitoring program to include an evaluation of the impact of changes in depreciation reserve deficiencies because this would exceed the purposes of the monitoring program and because that issue had never been referred to or considered by any Joint Board.

On April 4, 1989, in response to a request by USTA, the Common Carrier Bureau extended the date for filing the first report on jurisdictional revenue requirement shifts from May 1, 1989, until thirty days after the reporting model and guidelines have been released by the Commission. The Bureau believes that the timely and consistent completion of the reports by the LECs depends on the release of the reporting form and guidelines. Furthermore, the Bureau believes that the additional time will ensure that the report contains complete and consistent 1988 data.

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7 Reply comments were filed by American Telephone and Telegraph, Ameritech, Bell Atlantic, BellSouth, District of Columbia Public Service Commission, GTE, MCI, NYNEX, Southwestern Bell, United States Telephone Association, and US West.

Comment Filed

The Public Utilities Commission of the State of Colorado (CPUC) states that it is concerned about jurisdictional shifts to the state jurisdiction because they may cause an increase in local exchange rates. Furthermore, CPUC states that it supports the March 1, 1989, resolution of the National Association of Regulatory Utility Commissioners (NARUC) which supports the monitoring of all jurisdictional shifts in revenue requirements for each month beginning January 1986.<sup>8</sup> CPUC explains that NARUC's resolution includes shifts in total company and interstate operating expenses and investments. CPUC contends that monitoring only those jurisdictional shifts in total revenue requirements that exceed 5 percent may exclude some of the most affected Bell Operating Companies (BOCs). CPUC maintains, however, that the independent telephone companies would be better represented in such a report because jurisdictional shifts will likely affect more than 5 percent of their annual total revenue requirements. Therefore, CPUC contends that the 5 percent threshold should be eliminated.

CPUC supports the District of Columbia Public Service Commission's (DCPSC) efforts to alleviate jurisdictional revenue requirement shifts to DC. CPUC contends that any jurisdictional shift to DC would require an increase in local rates because no state toll is provided in that jurisdiction. CPUC maintains that such an increase would not be acceptable to DC's consumers.

CPUC contends that it is concerned with the effects of jurisdictional shifts on the goals of universal service and the toll rate disparity between interstate and state toll rates. CPUC explains that, if there are shifts in revenue requirement to the state jurisdiction, there will be increases in either state toll rates or local exchange rates. CPUC further explains that increases in local exchange rates will negatively affect telephone penetration rates which will in turn negatively affect the goal of universal service. CPUC maintains that the state consumers will not tolerate such shifts in revenue requirements, especially after the imposition of the subscriber line charges (SLCs).

CPUC states that it is concerned, as are many other state commissions, about toll rate disparity. CPUC explains that state toll rate increases may be approved by the state regulators as a way of preventing increases in local exchange rates. CPUC further explains that the consumers do not understand that, per mile, state toll rates could be higher than interstate toll rates. In addition, CPUC maintains that state toll rates continually increase, while interstate toll rates continually decrease. As a result,

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<sup>8</sup> See Comments of the Public Utilities Commission of the State of Colorado, at 11.

CPUC states that state regulators will be blamed for rate increases caused by jurisdictional shifts in revenue requirements to the state jurisdiction. In addition, CPUC maintains that jurisdictional shifts inevitably are the cause of rate increases for residential end-users.

CPUC concludes that state involvement is necessary to ensure that all states are treated and affected equitably by FCC decisions. Therefore, CPUC urges that all state public utility commissions submit information that addresses the issues in the monitoring report. CPUC maintains that active participation by all the states will allow the Joint Board to properly evaluate the effects of SLCs and related shifts in costs to the state jurisdiction.