

Monitoring Report

CC Docket No. 87-339

January 1990

Prepared by the Staff of the

Federal-State Joint Board

In CC Docket No. 80-286

Table of Contents

Introduction and Summary	3
Subscribership and Penetration Levels	9
Lifeline Assistance Plans	53
Costs and High Cost Assistance	83
Network Usage and Growth	116
Rates and Revenues	229
Bypass	251
Pooling and Rate Deaveraging	254
Jurisdictional Shifts in Revenue Requirements	264

Monitoring Report
CC Docket No. 87-339
January 1990

Introduction and Summary

This is the ninth 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.¹ The reports will continue through July 1992.

In an Order released on August 26, 1987, the Commission acted upon the recommendations of the Joint 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 July 1989 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 July and November 1989. It shows telephone penetration for households in November was 93.0%, which is unchanged from the March 1989 level presented in the previous monitoring report. Section 2 includes updated information on the lifeline and Link Up America programs. Section 3 includes information on the new universal service fund filing for

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

individual states and companies. Section 4 includes usage data by company for 1988, and revised data for 1987. Section 5 includes Consumer Price Index (CPI) and Producer Price Index (PPI) data through December 1989. The most recent data show that for 1989, the nation's overall level of prices (measured by the CPI for all items) rose 4.6% during the year. The CPI for telephone service fell 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 1989, the local service component (including subscriber line charges) increased by 0.6%, while the price of interstate toll calls fell by 1.3%, and the price of state toll calls fell by 2.6%. Section 6 includes a summary of comments on the estimation of bypass. Section 7 includes updated estimates of the effects of depooling. Section 8 includes the latest developments regarding the 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. The comments that have been received since the last report are summarized in each section of this report, insofar as they relate to that section. We plan to continue to include in future reports a list and summary of comments that have been received in the docket in the period since the previous report.

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 December 31, 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,² where copies of all materials filed in the docket are available for public reference.

2 1919 M Street, N.W., Room 537, FCC, Washington, DC 20554.

The following federal and state staff members have contributed to this report and can be contacted for further information. Unless otherwise noted, the federal staff members can be reached at (202) 632-0745.

General Information: Alexander Belinfante (Federal)
Peyton Wynns (Federal)
Ronald Choura (Michigan) (517) 334-6240
Brenda Buchan (Florida) (904) 488-1280
Dean Evens (California) (415) 577-2152
Sam Loudenslager (Arkansas) (501) 682-5767

Subscribership and Penetration: Alexander Belinfante (Federal)
Carl Hunt (Colorado) (303) 894-2028

Lifeline Assistance Plans: Laurence Povich (Federal)
Joel Shifman (Maine) (207) 289-3831
Robert Capshaw (North Carolina) (919) 733-4249

Costs and High Cost Assistance: Alexander Belinfante (Federal)
Rowland Curry (Texas) (512) 458-0103
Diane Hockman (Ohio) (614) 466-7533

Network Usage and Growth: Ramses Mina (Federal)
Paul Pederson (Missouri) (314) 751-7427

Rates and Revenues: James Lande (Federal)
Linda Blake (Federal)
Elton Calder (Georgia) (404) 656-4565

Bypass: Jonathan Kraushaar (Federal)
Fred Sistarenik (New York) (518) 486-2815
Michael Gallagher (New Jersey) (201) 648-7695

Pooling and Rate Deaveraging: Alexander Belinfante (Federal)
Michael Gallagher (New Jersey) (201) 648-7695

Jurisdictional Shifts: Michael Wilson (Federal) (202) 632-7500
Charles Needy (Federal) (202) 632-7500
Diane Hockman (Ohio) (614) 466-7533

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:

DOCKET NO. 80-286 JOINT BOARD MEMBERS

Chairman Alfred C. Sikes
Federal Communications Commission
1919 M Street, N.W., Room 814
Washington, D. C. 20554

Commissioner James H. Quello
Federal Communications Commission
1919 M Street, N.W., Room 802
Washington, D.C. 20554

Commissioner George H. Barbour
New Jersey Board of Public
Utilities
2 Gateway Center
Newark, New Jersey 07102

Commissioner Ronald L. Lehr
Colorado Public Utilities
Commission
1580 Logan Street
Denver, Colorado 80203

Commissioner Andrew C. Barrett
Federal Communications Commission
1919 M. St., NW, Room 844
Washington, DC 20554

Commissioner Thomas Beard
Florida Public Service Commission
Fletcher Building
101 East Gaines Street
Tallahassee, Florida 32399-0850

DOCKET NO. 80-286 FEDERAL-STATE JOINT BOARD STAFF

Ronald Choura
Chairman, Federal-State Joint
Board Staff
Michigan Public Service
Commission
6545 Mercantile Way
Lansing, Michigan 48910

Elton Calder
Georgia Public Service
Commission
162 State Office Building
244 Washington Street, S.W.
Atlanta, Georgia 30334

Rowland Curry
Texas Public Utility Commission
Suite 400 N
7800 Shoal Creek Blvd.
Austin, Texas 78757

Diane Hockman
Ohio Public Utilities Commission
180 East Broad Street
Columbus, Ohio 43266-0573

Michael P. Gallagher
New Jersey Board of Public
Utilities
2 Gateway Center
Newark, New Jersey 07102

Fred Sistarenik
New York Public Service Commission
3 Empire State Plaza
Albany, New York 12223

Robert Capshaw
North Carolina Utilities'
Commission
Box 29510
Raleigh, North Carolina 27626-0510
[if hand delivered:
Dobbs Building
430 North Salisbury Street
Raleigh, North Carolina 27602]

Brenda Buchan
Florida Public Service Commission
Fletcher Building
101 East Gaines Street
Tallahassee, Florida 32399-0850

Sam Loudenslager
Arkansas Public Service Commission
1000 Center St.
P.O. Box C-400
Little Rock, Arkansas 72203

Paul Pederson
Missouri Public Service Commission
Harry S Truman Bldg., 5th Floor
P.O. Box 360
Jefferson City, Missouri 65102

Dean Evens
California Public Utilities
Commission
505 Van Ness Avenue, Room 4004
San Francisco, California 94102

Carl Hunt
Colorado Public Utilities
Commission
1580 Logan Street
Denver, Colorado 80203

Joel B. Shifman
Maine Public Utilities
Commission
State House Station #18
Augusta, Maine 04333

Michael E. Wilson
Chief, Cost Analysis Branch
Accounting and Audits Division
Common Carrier Bureau
Federal Communications Commission
Washington, DC 20554
[if hand delivered:
2000 L Street, N.W., Room 257
Washington, D.C. 20554]

Charles Gray
National Association of
Regulatory Utility Commissioners
1102 ICC Building
Constitution Ave. & 12th St., N.W.
Washington, DC 20044

OTHER FEDERAL STAFF

Alexander Belinfante
Industry Analysis Division
Common Carrier Bureau
Federal Communications Commission
1919 M Street, N.W., Room 538
Washington, D.C. 20554

Jonathan Kraushaar
Industry Analysis Division
Common Carrier Bureau
Federal Communications Commission
1919 M Street, N.W. Room 538
Washington, D.C. 20554

James Lande
Industry Analysis Division
Common Carrier Bureau
Federal Communications Commission
1919 M Street, N.W. Room 538
Washington, D.C. 20554

Linda Blake
Public Reference Room
Industry Analysis Division
Common Carrier Bureau
Federal Communications Commission
1919 M Street, N.W. Room 538
Washington, D.C. 20554

Peyton L. Wynns
Chief, Industry Analysis Division
Common Carrier Bureau
Federal Communications Commission
1919 M Street, N.W., Room 538
Washington, D.C. 20554

Ramses Mina
Industry Analysis Division
Common Carrier Bureau
Federal Communications Commission
1919 M Street, N.W. Room 538
Washington, D.C. 20554

Laurence Povich
Industry Analysis Division
Common Carrier Bureau
Federal Communications Commission
1919 M Street, N.W. Room 538
Washington, D.C. 20554

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

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

Census Bureau figures for November 1989, the most recent data available, show that the percentage of households subscribing to telephone service has increased by 0.5% to 93.0% in the past year. This increase is statistically significant. As a result of the increasing percentage of subscribership and an increasing number of households, 1.6 million households were added to the nation's telephone system between November 1988 and November 1989. The estimated penetration rate for November is unchanged from the March level presented in the previous monitoring report, and down 0.3% from the July level. The decrease since July is not statistically significant, and it can be largely attributed to normal seasonal variation. The annual average for 1989 was 93.1%, up 0.4% from the 1988 annual average. This increase is statistically significant.

This section includes figures showing subscribership percentages by state, by householder's age and race, by household size, by family income, and for individual adults by labor force status. The data for individual adults show that 94.0% of those adults in the civilian noninstitutionalized population have a telephone in their household. This figure is up 0.4% from November 1988, unchanged from March 1989, and down 0.3% from July 1989. These changes are not statistically significant. The annual average for

1989 was 94.1%, up 0.3% from the 1988 annual average. This change is also 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.

Chart 1.1 depicts the nationwide penetration rates for households graphically over time, 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 1989 annual averages 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 individual adults rather than households, the total penetration rates are different from those in the previous tables. It shows that penetration is lowest among the unemployed.

Chart 1.3 depicts the nationwide penetration rates for individual adults graphically over time, with the values taken from the totals in Table 1.6.

Tables 1.7-1.11 present the critical values at the 95% confidence level for testing the statistical significance of changes over time in the earlier tables. These critical values are relevant because changes less than or equal to the values shown are likely to be due to sampling error and thus cannot be regarded as demonstrating that a change in telephone penetration has occurred. In some cases these critical values are very large because the sample sizes are very small for these subcategories, rendering the estimated penetration rates unreliable. Because there is an overlap of half of the sample from year to year, but no overlap in the sample between surveys that are four months apart, annual changes are less subject to variations in sampling error. Consequently the critical values should be multiplied by 0.8 when making a comparison for the same month in two consecutive years. When comparing the annual averages, the critical values should be multiplied by 0.5774, since these averages are based on three surveys and hence have a lower standard error.

TABLE 1.1

Telephone Penetration in the U.S.

<u>Date</u>	<u>Households</u> (millions)	<u>Households</u> <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
July 1989	93.8	87.5	93.3	6.3	6.7
November 1989	93.9	87.3	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		JULY		NOVEMBER	
	Unit	Avall	Unit	Avall	Unit	Avall	Unit	Avall
UNITED STATES	92.7	94.5	93.0	94.7	93.3	95.0	93.0	94.9
ALABAMA	87.3	89.6	90.4	91.3	89.8	91.7	86.9	91.0
ALASKA	87.6	89.9	84.1	87.1	88.3	91.4	87.9	91.3
ARIZONA	90.6	92.3	90.5	92.0	91.9	93.2	92.4	94.4
ARKANSAS	86.1	90.2	84.0	89.0	89.5	92.7	88.9	91.4
CALIFORNIA	94.4	95.5	94.6	95.8	95.5	96.3	94.8	95.8
COLORADO	93.8	95.4	96.0	96.6	93.6	95.7	94.2	95.8
CONNECTICUT	96.3	98.9	97.4	98.0	98.4	98.6	98.6	98.9
DELAWARE	97.0	97.9	95.3	95.9	97.3	98.3	97.4	98.2
DIST OF COL	94.6	95.9	95.1	96.3	91.0	93.7	92.0	94.5
FLORIDA	92.7	94.5	91.7	93.2	93.1	95.2	93.8	95.1
GEORGIA	90.1	92.4	90.5	93.2	90.8	93.9	89.3	91.6
HAWAII	94.5	96.3	95.9	96.9	92.9	96.1	96.4	97.7
IDAHO	92.2	93.3	92.3	93.3	92.5	93.3	92.8	94.2
ILLINOIS	94.2	95.6	94.5	95.9	93.2	94.8	93.9	95.6
INDIANA	92.3	94.9	93.4	97.6	94.2	96.2	92.1	94.0
IOWA	95.4	96.9	97.1	98.0	95.4	97.3	96.5	97.1
KANSAS	94.4	95.7	94.6	96.4	94.2	96.2	94.4	95.0
KENTUCKY	87.5	90.9	89.5	93.1	89.0	92.8	88.3	92.3
LOUISIANA	87.3	91.1	90.5	92.5	88.3	91.8	86.9	89.7
MAINE	94.2	95.9	95.0	95.9	95.8	97.0	94.9	96.5
MARYLAND	95.9	97.2	96.0	97.6	94.4	96.3	94.5	96.0
MASSACHUSETTS	96.9	97.3	96.6	97.5	97.7	98.2	97.0	97.8
MICHIGAN	93.9	95.0	94.4	95.2	94.3	95.3	92.6	94.3
MINNESOTA	97.2	98.4	96.7	97.6	95.7	97.1	98.0	98.7
MISSISSIPPI	83.3	88.6	84.4	88.8	85.6	90.5	86.6	91.6
MISSOURI	93.5	95.6	90.9	93.7	91.2	93.3	90.9	93.2
MONTANA	91.7	94.2	92.6	94.6	90.1	94.5	92.3	93.9
NEBRASKA	95.4	96.1	96.1	97.4	96.1	97.2	93.4	94.3
NEVADA	92.4	93.4	91.5	91.8	93.1	94.2	93.5	94.0
NEW HAMPSHIRE	95.2	96.1	95.9	96.5	96.4	98.2	94.0	96.8
NEW JERSEY	94.4	95.9	94.9	95.8	94.5	96.1	95.1	96.3
NEW MEXICO	85.7	89.1	86.9	90.5	85.5	87.9	85.0	90.3
NEW YORK	92.4	94.0	93.1	94.6	92.1	94.0	91.8	93.5
N. CAROLINA	90.4	92.8	92.0	94.2	91.9	93.9	91.8	94.1
N. DAKOTA	96.8	97.5	96.5	98.1	97.5	98.2	97.0	97.8
OHIO	94.4	95.2	94.4	95.2	95.4	96.3	94.2	95.1
OKLAHOMA	88.9	91.6	86.7	89.4	89.2	91.2	88.7	93.1
OREGON	92.0	93.5	89.5	91.9	94.2	95.4	93.0	94.6
PENNSYLVANIA	98.2	97.1	96.8	97.2	96.9	97.4	97.2	97.9
RHODE ISLAND	95.4	96.5	95.3	96.1	96.9	97.9	94.0	94.8
S. CAROLINA	88.5	91.4	87.2	89.5	88.8	92.1	87.4	90.9
S. DAKOTA	92.9	95.4	93.3	94.7	93.7	95.2	92.8	94.9
TENNESSEE	90.3	93.5	92.8	95.0	91.3	94.3	91.6	95.9
TEXAS	88.5	91.3	87.8	90.4	88.8	91.5	89.8	92.9
UTAH	92.5	94.5	95.9	95.9	95.6	96.3	96.3	97.5
VERMONT	95.6	96.8	95.7	96.7	93.4	95.7	92.7	94.8
VIRGINIA	92.9	95.5	92.4	94.9	93.1	96.2	94.0	96.2
WASHINGTON	94.3	95.7	96.5	97.4	97.6	98.0	95.1	96.4
W. VIRGINIA	87.3	91.4	87.7	91.3	84.3	87.5	88.4	92.0
WISCONSIN	97.0	98.0	96.8	98.2	97.7	98.9	97.5	98.0
WYOMING	93.0	94.4	95.3	96.7	93.8	96.5	91.8	93.4

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY NATIONAL TOTAL AND STATES - TABLE 1 · 2

	1989	
	ANNUAL AVERAGE	
	Unit	Avall
UNITED STATES	93.1	94.9
ALABAMA	89.0	91.3
ALASKA	86.8	89.9
ARIZONA	91.6	93.2
ARKANSAS	87.5	91.0
CALIFORNIA	94.9	96.0
COLORADO	94.6	96.0
CONNECTICUT	98.1	98.5
DELAWARE	96.6	97.5
DIST OF COL	92.7	94.8
FLORIDA	92.9	94.5
GEORGIA	90.2	92.9
HAWAII	95.1	96.9
IDAHO	92.5	93.6
ILLINOIS	93.9	95.4
INDIANA	93.2	95.9
IOWA	96.3	97.5
KANSAS	94.4	95.8
KENTUCKY	88.9	92.7
LOUISIANA	88.6	91.3
MAINE	95.3	96.4
MARYLAND	95.0	96.6
MASSACHUSETTS	97.1	97.8
MICHIGAN	93.7	94.9
MINNESOTA	96.8	97.8
MISSISSIPPI	85.5	90.3
MISSOURI	91.0	93.4
MONTANA	91.7	94.3
NEBRASKA	95.2	96.3
NEVADA	92.7	93.3
NEW HAMPSHIRE	95.4	97.1
NEW JERSEY	94.8	96.1
NEW MEXICO	85.8	89.6
NEW YORK	92.3	94.0
N. CAROLINA	91.9	94.1
N. DAKOTA	97.0	98.0
OHIO	94.6	95.5
OKLAHOMA	88.2	91.2
OREGON	92.3	93.9
PENNSYLVANIA	97.0	97.5
RHODE ISLAND	95.4	96.3
S. CAROLINA	87.8	90.8
S. DAKOTA	93.3	95.0
TENNESSEE	91.9	95.1
TEXAS	88.8	91.6
UTAH	95.9	96.5
VERMONT	93.9	95.7
VIRGINIA	93.2	95.7
WASHINGTON	96.4	97.3
W. VIRGINIA	86.8	90.3
WISCONSIN	97.3	98.4
WYOMING	93.6	95.5

CHART 1.1

Telephone Penetration

Households

Percent with Telephone

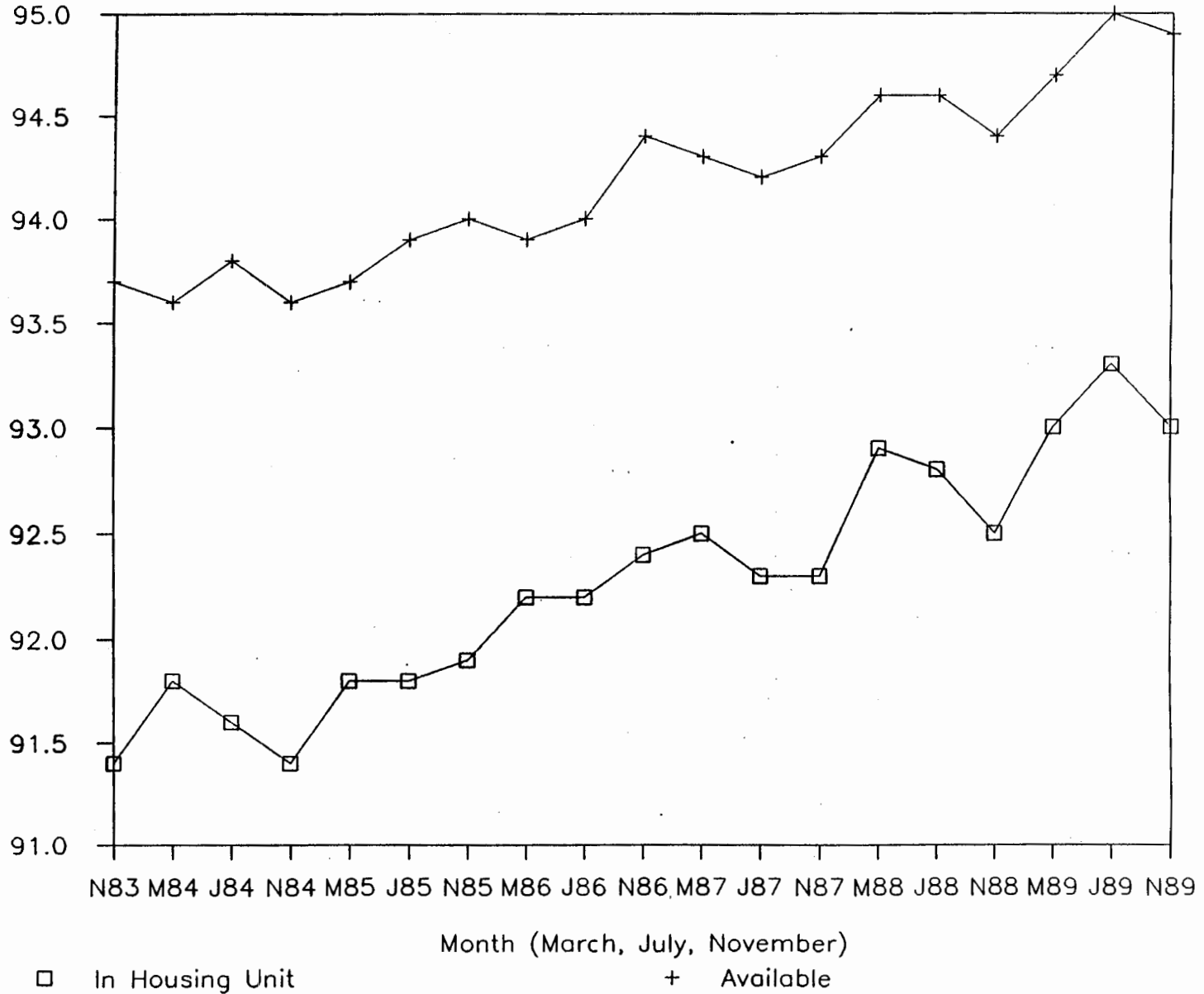
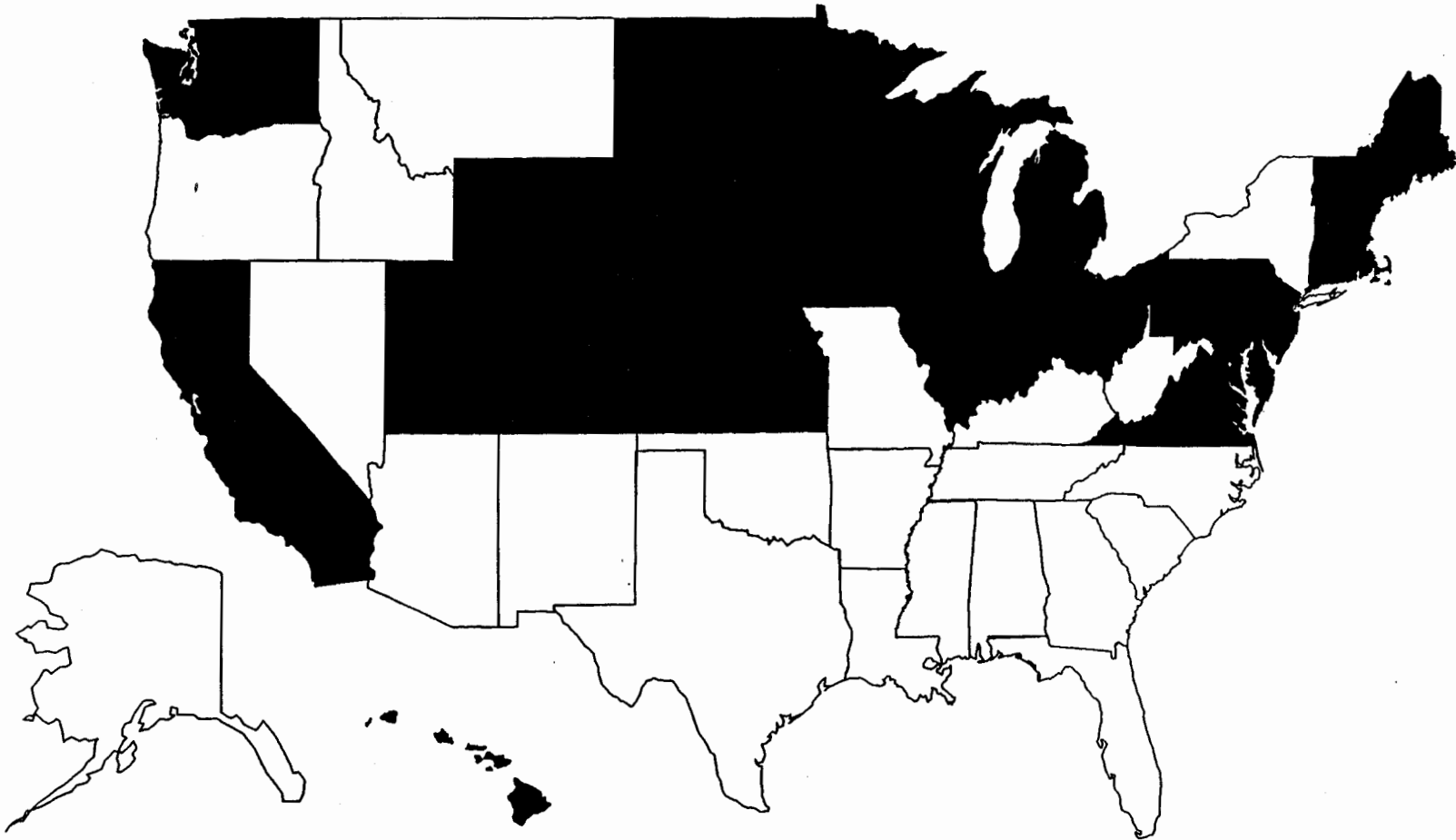


CHART 1.2

Households With Phones

Above or below 1989 national average



Solid black = Above national average of 93.1%

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

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

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

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

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

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

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
JULY 88								
TOTAL	92.8	94.6	94.1	95.6	83.8	87.6	83.0	86.4
1 PERSON	88.5	91.7	90.8	93.5	76.9	82.5	73.9	80.3
2 - 3	94.6	95.8	95.4	96.5	87.5	90.3	85.7	88.5
4 - 5	95.2	96.0	95.8	96.4	91.7	93.5	84.8	86.2
6 +	93.4	95.8	94.0	96.4	88.8	92.7	88.0	91.0
NOVEMBER 88								
TOTAL	92.5	94.4	93.9	95.5	82.5	86.6	80.8	83.4
1 PERSON	88.0	91.3	90.4	93.2	74.9	80.8	72.4	76.1
2 - 3	94.3	95.8	95.2	96.4	86.9	90.2	82.9	85.4
4 - 5	95.1	95.8	95.9	96.5	89.5	91.1	84.8	85.7
6 +	91.3	92.2	91.7	92.9	86.0	86.0	79.2	82.1
1988 ANNUAL AVERAGE								
TOTAL	92.7	94.5	94.1	95.6	83.0	86.8	82.1	85.1
1 PERSON	88.4	91.7	90.6	93.5	76.4	82.0	74.4	79.5
2 - 3	94.5	95.7	95.4	96.4	86.8	89.7	84.2	86.9
4 - 5	94.9	95.8	95.8	96.5	89.0	90.7	84.4	85.6
6 +	92.8	94.3	93.7	94.9	87.2	90.6	86.1	88.0
MARCH 89								
TOTAL	93.0	94.7	94.4	95.8	83.2	86.9	81.9	84.8
1 PERSON	88.9	92.1	91.2	94.1	77.3	82.4	72.1	77.9
2 - 3	94.6	95.7	95.6	96.4	86.7	89.7	83.7	86.1
4 - 5	95.9	96.4	96.8	97.1	89.2	91.0	89.7	89.7
6 +	94.1	94.4	95.5	96.0	90.4	90.4	90.6	91.9
JULY 89								
TOTAL	93.3	95.0	94.6	96.0	83.9	87.9	83.5	86.5
1 PERSON	90.7	93.7	92.2	94.9	81.2	85.6	75.8	81.8
2 - 3	94.5	95.9	95.6	96.7	85.1	89.2	84.9	87.8
4 - 5	94.1	95.3	95.3	96.2	85.6	89.0	85.3	87.9
6 +	88.9	90.8	90.8	92.3	80.5	84.4	82.8	84.2
NOVEMBER 89								
TOTAL	93.0	94.9	94.6	96.0	82.5	86.5	83.5	86.8
1 PERSON	90.5	93.3	92.3	94.8	78.8	83.4	78.6	84.2
2 - 3	94.5	95.9	95.6	96.8	85.5	88.9	84.4	88.0
4 - 5	93.5	94.8	95.1	96.1	82.4	86.5	85.7	87.7
6 +	88.5	90.9	91.6	93.0	76.2	82.6	81.5	83.4

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
1989 ANNUAL AVERAGE								
TOTAL	93.1	94.9	94.5	95.9	83.2	87.1	83.0	86.0
1 PERSON	90.0	93.0	91.9	94.6	79.1	83.8	75.5	81.3
2 - 3	94.5	95.8	95.6	96.7	85.8	89.3	84.3	87.3
4 - 5	94.5	95.5	95.7	96.4	85.7	88.8	86.9	88.5
6 +	90.5	92.0	92.7	93.8	82.4	85.8	84.9	86.5

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

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

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

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

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

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

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

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

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

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

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

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

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

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

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
MARCH 89								
TOTAL	93.0	94.7	94.4	95.8	83.2	86.9	81.9	84.8
UNDER \$5,000	73.2	79.2	76.6	82.0	65.3	73.0	57.1	61.6
\$5,000 - \$7,499	84.4	87.5	86.4	89.3	79.3	82.6	69.3	74.7
\$7,500 - \$9,999	87.1	89.8	88.4	90.9	82.2	85.6	76.8	80.1
\$10,000 - \$12,499	87.9	90.8	89.6	91.9	78.3	85.2	68.1	70.9
\$12,500 - \$14,999	91.1	93.5	92.5	94.7	81.4	85.4	77.6	80.9
\$15,000 - \$19,999	92.5	94.2	93.8	95.4	82.9	86.0	86.2	88.9
\$20,000 - \$24,999	96.1	97.4	96.5	97.6	92.8	95.3	92.1	94.8
\$25,000 - \$29,999	97.5	98.1	97.7	98.3	95.6	96.9	90.1	92.6
\$30,000 - \$34,999	98.3	98.8	98.5	98.9	96.0	97.6	95.8	96.0
\$35,000 - \$39,999	98.9	99.4	99.0	99.5	96.9	98.3	94.4	97.3
\$40,000 - \$49,999	99.0	99.5	99.2	99.7	97.1	97.7	96.3	98.7
\$50,000 - \$59,999	99.6	99.7	99.7	99.8	99.0	99.0	100.0	100.0
\$60,000 - \$74,999	99.5	99.6	99.4	99.5	99.8	99.8	95.1	95.5
\$75,000 +	99.5	99.8	99.4	99.8	100.0	100.0	99.0	99.0
JULY 89								
TOTAL	93.3	95.0	94.6	96.0	83.9	87.9	83.5	86.5
UNDER \$5,000	74.4	80.2	78.0	83.2	65.1	72.8	62.8	68.7
\$5,000 - \$7,499	84.9	88.4	86.3	89.6	79.3	84.1	72.6	75.1
\$7,500 - \$9,999	86.1	89.5	88.2	91.3	77.1	82.5	75.8	81.7
\$10,000 - \$12,499	88.7	91.9	89.8	92.6	82.0	87.6	74.3	79.2
\$12,500 - \$14,999	91.3	93.9	92.3	94.6	86.0	90.5	78.4	84.1
\$15,000 - \$19,999	93.7	95.7	94.4	96.1	89.1	93.0	85.9	88.0
\$20,000 - \$24,999	95.9	97.1	96.6	97.6	89.6	92.7	92.5	94.0
\$25,000 - \$29,999	97.6	98.5	98.0	98.8	92.9	95.9	97.4	99.0
\$30,000 - \$34,999	98.3	98.8	98.5	98.9	96.1	96.8	93.9	95.4
\$35,000 - \$39,999	98.5	99.1	98.8	99.3	96.4	97.9	94.9	97.1
\$40,000 - \$49,999	99.4	99.6	99.4	99.7	98.3	98.3	98.5	98.5
\$50,000 - \$59,999	99.6	99.8	99.6	99.7	100.0	100.0	96.2	97.6
\$60,000 - \$74,999	99.5	99.8	99.5	99.8	100.0	100.0	100.0	100.0
\$75,000 +	99.5	99.8	99.5	99.8	98.4	98.4	100.0	100.0
NOVEMBER 1989								
TOTAL	93.0	94.9	94.6	96.0	82.5	86.5	83.5	86.8
UNDER \$5,000	75.8	81.7	79.7	84.5	66.6	74.6	66.3	71.6
\$5,000 - \$7,499	81.9	86.4	84.2	88.4	73.7	79.3	64.6	71.5
\$7,500 - \$9,999	86.6	90.0	88.8	91.6	75.7	82.6	75.0	78.8
\$10,000 - \$12,499	88.7	91.4	90.7	93.2	77.5	81.8	77.3	80.3
\$12,500 - \$14,999	91.5	93.8	92.4	94.4	86.3	90.5	81.5	86.0
\$15,000 - \$19,999	93.3	95.1	94.4	96.0	85.6	88.7	86.9	89.5
\$20,000 - \$24,999	95.9	97.2	96.2	97.5	92.3	94.9	91.5	94.4
\$25,000 - \$29,999	97.4	98.4	97.8	98.8	93.6	95.3	92.4	97.2
\$30,000 - \$34,999	98.2	98.7	98.4	98.9	96.2	96.7	97.2	97.2
\$35,000 - \$39,999	98.8	99.4	99.0	99.5	96.8	97.7	98.1	98.1
\$40,000 - \$49,999	99.0	99.4	99.2	99.6	96.1	97.1	96.2	97.5
\$50,000 - \$59,999	99.3	99.7	99.4	99.8	97.2	98.0	100.0	100.0
\$60,000 - \$74,999	99.4	99.6	99.5	99.6	98.2	98.2	92.1	94.8
\$75,000 +	99.7	99.8	99.6	99.8	100.0	100.0	100.0	100.0

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

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail		
1989 ANNUAL AVERAGE								
TOTAL	93.1	94.9	94.5	95.9	83.2	87.1	83.0	86.0
UNDER \$5,000	74.4	80.4	78.1	83.2	65.6	73.5	62.1	67.3
\$5,000 - \$7,499	83.7	87.4	85.7	89.1	77.4	82.0	68.8	73.8
\$7,500 - \$9,999	86.6	89.8	88.5	91.3	78.4	83.6	75.9	80.2
\$10,000 - \$12,499	88.4	91.3	90.0	92.6	79.3	84.9	73.2	76.8
\$12,500 - \$14,999	91.3	93.7	92.4	94.5	84.5	88.8	79.2	83.7
\$15,000 - \$17,499	93.2	95.0	94.2	95.8	85.9	89.2	86.3	88.8
\$17,500 - \$19,999	95.9	97.2	96.4	97.5	91.6	94.3	92.0	94.4
\$20,000 - \$24,999	97.5	98.4	97.9	98.6	94.0	96.0	93.3	96.3
\$25,000 - \$29,999	98.3	98.8	98.5	98.9	96.1	97.0	95.6	96.2
\$30,000 - \$34,999	98.7	99.3	98.9	99.4	96.7	98.0	95.8	97.5
\$35,000 - \$39,999	99.1	99.5	99.2	99.6	97.2	97.7	97.0	98.2
\$40,000 - \$49,999	99.5	99.7	99.5	99.8	98.7	99.0	98.7	99.2
\$50,000 - \$74,999	99.5	99.7	99.5	99.7	99.3	99.3	95.7	96.8
\$75,000 +	99.5	99.8	99.5	99.8	99.5	99.5	99.7	99.7

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

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

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

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
1984 ANNUAL AVERAGE								
TOTAL HOUSEHOLDS	91.6	93.7	93.2	94.9	79.8	84.5	80.9	84.3
16-24 YRS OLD	77.0	83.6	79.6	85.4	58.2	70.8	60.9	69.2
25-54 YRS OLD	91.7	93.7	93.4	95.1	79.6	84.1	83.1	85.7
55-59 YRS OLD	94.9	96.1	96.1	97.1	86.6	89.2	87.1	90.1
60-64 YRS OLD	94.9	96.0	96.0	97.0	86.6	88.8	87.1	89.1
65-69 YRS OLD	96.2	96.8	97.1	97.6	87.9	89.9	90.2	91.5
70-99 YRS OLD	95.3	96.5	96.0	97.1	88.2	90.9	84.4	87.6
MARCH 85								
TOTAL HOUSEHOLDS	91.8	93.7	93.3	95.0	80.1	84.4	81.2	84.1
16-24 YRS OLD	77.3	83.1	79.6	84.8	59.8	70.0	62.4	67.1
25-54 YRS OLD	91.9	93.8	93.6	95.2	79.5	83.9	83.0	85.5
55-59 YRS OLD	94.9	95.9	95.8	96.7	87.3	89.1	86.5	89.1
60-64 YRS OLD	94.3	95.4	95.5	96.2	84.4	87.6	91.3	93.2
65-69 YRS OLD	96.1	97.0	96.8	97.5	90.7	93.6	86.5	90.4
70-99 YRS OLD	95.6	96.5	96.5	97.3	87.4	89.4	87.4	91.7
JULY 85								
TOTAL HOUSEHOLDS	91.8	93.9	93.2	95.0	81.6	85.8	80.3	83.3
16-24 YRS OLD	78.3	84.4	80.7	86.3	59.6	70.2	67.8	73.7
25-54 YRS OLD	91.8	93.9	93.3	95.1	81.4	85.8	81.0	83.6
55-59 YRS OLD	94.7	95.9	95.9	96.8	86.3	89.4	87.2	88.0
60-64 YRS OLD	95.0	95.9	95.5	96.4	91.1	91.8	85.5	88.3
65-69 YRS OLD	95.5	96.5	96.7	97.4	86.1	88.5	85.9	89.7
70-99 YRS OLD	95.6	96.8	96.2	97.3	90.8	92.4	87.6	90.5
NOVEMBER 85								
TOTAL HOUSEHOLDS	91.9	94.0	93.3	95.2	81.5	85.3	82.5	85.7
16-24 YRS OLD	78.0	83.9	80.6	86.3	60.7	68.1	64.3	71.6
25-54 YRS OLD	91.9	94.0	93.5	95.3	81.1	85.2	83.4	86.5
55-59 YRS OLD	95.0	96.2	95.7	96.8	90.0	91.4	88.4	90.6
60-64 YRS OLD	95.5	96.3	96.3	97.0	89.8	91.3	92.3	92.3
65-69 YRS OLD	96.1	97.0	97.0	97.7	88.0	90.8	95.1	95.1
70-99 YRS OLD	95.3	96.6	96.0	97.2	88.9	90.5	87.8	90.4

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		
1985 ANNUAL AVERAGE								
TOTAL HOUSEHOLDS	91.8	93.9	93.3	95.0	81.1	85.2	81.3	84.4
16-24 YRS OLD	77.9	83.8	80.3	85.8	60.0	69.4	64.8	70.8
25-54 YRS OLD	91.9	93.9	93.5	95.2	80.7	85.0	82.5	85.2
55-59 YRS OLD	94.9	96.0	95.8	96.8	87.8	90.0	87.4	89.2
60-64 YRS OLD	94.9	95.9	95.8	96.5	88.4	90.2	89.7	91.3
65-69 YRS OLD	95.9	96.8	96.8	97.5	88.2	90.9	89.1	91.7
70-99 YRS OLD	95.5	96.6	96.2	97.3	89.1	90.7	87.6	90.9
MARCH 86								
TOTAL HOUSEHOLDS	92.2	93.9	93.6	95.0	82.0	85.8	81.5	83.9
16-24 YRS OLD	78.1	82.9	80.6	84.7	58.2	69.0	60.1	63.8
25-54 YRS OLD	92.3	93.9	93.8	95.1	82.1	85.6	83.1	85.3
55-59 YRS OLD	95.2	96.3	96.1	97.0	87.8	90.6	86.8	90.3
60-64 YRS OLD	95.5	96.2	96.2	96.9	89.0	90.5	92.4	92.4
65-69 YRS OLD	95.7	96.7	96.6	97.4	87.2	89.8	94.1	95.1
70-99 YRS OLD	95.9	97.0	96.4	97.5	91.2	93.0	93.1	96.2
JULY 86								
TOTAL HOUSEHOLDS	92.2	94.0	93.7	95.2	81.5	85.7	81.1	83.6
16-24 YRS OLD	79.7	85.4	82.0	86.7	63.8	76.6	64.1	69.7
25-54 YRS OLD	92.1	93.9	93.8	95.3	80.4	84.4	83.0	85.1
55-59 YRS OLD	95.0	96.0	96.0	96.9	87.9	90.0	86.0	87.1
60-64 YRS OLD	95.3	96.2	95.9	96.6	90.9	92.9	81.8	85.1
65-69 YRS OLD	95.7	96.5	96.7	97.4	87.8	89.4	91.4	92.6
70-99 YRS OLD	95.8	96.5	96.4	97.1	90.6	91.8	85.3	86.1
NOVEMBER 86								
TOTAL HOUSEHOLDS	92.4	94.4	93.8	95.5	81.3	86.1	81.6	84.7
16-24 YRS OLD	79.4	84.7	81.9	86.3	57.5	71.1	65.9	68.8
25-54 YRS OLD	92.2	94.3	93.9	95.6	80.8	85.5	82.6	86.0
55-59 YRS OLD	95.3	96.6	96.1	97.0	88.3	93.2	90.1	93.8
60-64 YRS OLD	95.4	96.2	96.6	97.4	86.7	87.8	93.2	93.6
65-69 YRS OLD	96.0	96.9	96.7	97.5	90.2	92.5	85.7	88.0
70-99 YRS OLD	96.4	97.3	96.8	97.7	92.2	93.9	84.1	86.9

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		
1986 ANNUAL AVERAGE								
TOTAL HOUSEHOLDS	92.3	94.1	93.7	95.2	81.6	85.9	81.4	84.1
16-24 YRS OLD	79.0	84.4	81.5	85.9	59.8	72.2	63.4	67.4
25-54 YRS OLD	92.2	94.0	93.8	95.3	81.1	85.2	82.9	85.5
55-59 YRS OLD	95.2	96.3	96.1	97.0	88.0	91.3	87.6	90.4
60-64 YRS OLD	95.4	96.2	96.2	97.0	88.9	90.4	89.1	90.3
65-69 YRS OLD	95.8	96.7	96.7	97.4	88.4	90.6	90.4	91.9
70-99 YRS OLD	96.0	97.0	96.5	97.4	91.3	92.9	87.5	89.8
MARCH 87								
TOTAL HOUSEHOLDS	92.5	94.3	93.9	95.4	82.2	85.7	84.1	86.5
16-24 YRS OLD	79.7	85.5	81.9	87.0	64.3	73.8	68.1	75.1
25-54 YRS OLD	92.6	94.2	94.1	95.5	81.7	85.3	85.1	87.0
55-59 YRS OLD	95.0	96.1	96.4	97.0	85.0	88.6	87.4	90.5
60-64 YRS OLD	95.6	96.4	96.5	97.2	87.6	89.8	92.6	92.6
65-69 YRS OLD	95.6	96.2	96.5	97.0	87.9	89.2	89.4	89.4
70-99 YRS OLD	95.8	97.0	96.3	97.5	91.4	92.3	95.3	96.1
JULY 87								
TOTAL HOUSEHOLDS	92.3	94.2	93.7	95.3	82.0	86.0	83.1	85.2
16-24 YRS OLD	78.2	83.3	81.2	85.7	57.6	67.2	66.2	69.7
25-54 YRS OLD	92.1	94.2	93.6	95.3	81.9	86.2	84.2	86.1
55-59 YRS OLD	95.4	96.2	96.5	97.2	87.1	89.8	90.8	92.4
60-64 YRS OLD	95.8	96.4	96.7	97.2	88.5	90.2	91.1	93.7
65-69 YRS OLD	96.5	97.2	97.5	98.1	88.9	90.2	87.5	87.5
70-99 YRS OLD	96.0	96.9	96.4	97.3	93.4	94.1	88.8	91.6
NOVEMBER 87								
TOTAL HOUSEHOLDS	92.3	94.3	93.8	95.4	81.2	85.9	81.9	84.6
16-24 YRS OLD	78.9	84.4	81.0	85.5	63.6	76.0	61.3	67.8
25-54 YRS OLD	92.1	94.2	93.9	95.5	80.4	85.1	83.9	86.4
55-59 YRS OLD	95.3	96.4	96.3	97.3	88.9	90.3	89.1	89.3
60-64 YRS OLD	95.7	96.5	96.7	97.4	88.0	90.5	89.0	89.9
65-69 YRS OLD	95.7	96.6	97.0	97.6	84.6	88.4	89.6	89.6
70-99 YRS OLD	96.3	97.3	96.8	97.7	90.8	92.7	90.7	91.7

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

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
1987 ANNUAL AVERAGE								
TOTAL HOUSEHOLDS	92.4	94.2	93.8	95.4	81.8	85.9	83.0	85.4
16-24 YRS OLD	78.9	84.4	81.4	86.1	61.8	72.3	65.2	70.8
25-54 YRS OLD	92.3	94.2	93.9	95.4	81.4	85.5	84.4	86.5
55-59 YRS OLD	95.2	96.2	96.4	97.2	87.0	89.6	89.1	90.7
60-64 YRS OLD	95.7	96.4	96.6	97.3	88.0	90.2	90.9	92.0
65-69 YRS OLD	95.9	96.7	97.0	97.5	87.1	89.3	88.8	88.8
70-99 YRS OLD	96.0	97.0	96.5	97.5	91.9	93.0	91.6	93.1
MARCH 88								
TOTAL HOUSEHOLDS	92.9	94.6	94.2	95.7	82.7	86.3	82.6	85.7
16-24 YRS OLD	81.2	85.7	83.3	87.2	67.3	75.1	66.1	72.7
25-54 YRS OLD	92.8	94.4	94.3	95.7	81.2	84.9	83.9	86.5
55-59 YRS OLD	95.5	97.0	96.4	97.7	89.1	92.4	91.7	94.1
60-64 YRS OLD	95.4	96.4	96.4	97.2	87.7	90.8	85.3	88.4
65-69 YRS OLD	96.3	96.9	96.8	97.3	91.3	93.1	84.5	87.4
70-99 YRS OLD	95.8	97.3	96.2	97.7	92.7	94.0	91.2	93.5
JULY 88								
TOTAL HOUSEHOLDS	92.8	94.6	94.1	95.6	83.8	87.6	83.0	86.4
16-24 YRS OLD	80.6	85.5	82.6	87.1	65.6	73.8	67.0	73.4
25-54 YRS OLD	92.6	94.5	94.0	95.5	83.5	87.6	84.1	87.4
55-59 YRS OLD	94.4	95.7	95.8	97.0	85.7	87.6	88.6	89.1
60-64 YRS OLD	95.3	96.2	96.2	97.0	88.3	89.7	85.6	89.8
65-69 YRS OLD	96.7	97.4	97.5	97.9	89.6	93.2	92.9	93.9
70-99 YRS OLD	96.6	97.5	97.1	98.1	92.7	93.9	92.4	92.9
NOVEMBER 88								
TOTAL HOUSEHOLDS	92.5	94.4	93.9	95.5	82.5	86.6	80.8	83.4
16-24 YRS OLD	78.7	84.2	81.0	86.1	63.9	71.6	58.9	66.5
25-54 YRS OLD	92.4	94.4	93.9	95.5	82.0	86.4	82.5	84.4
55-59 YRS OLD	95.5	96.5	96.1	96.9	90.3	92.9	85.2	86.3
60-64 YRS OLD	95.1	96.1	96.2	97.0	86.6	89.2	91.1	91.7
65-69 YRS OLD	96.3	97.1	97.3	98.0	87.9	89.7	91.2	92.2
70-99 YRS OLD	96.3	97.6	96.8	98.1	91.5	93.7	93.0	96.4

PERCENTAGE OF HOUSEHOLDS WITH A TELEPHONE BY HOUSEHOLDER'S AGE - TABLE 1 . 5

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

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

	RACE						HISPANIC ORIGIN	
	TOTAL		WHITE		BLACK		Unit	Avail
	Unit	Avail	Unit	Avail	Unit	Avail	Unit	Avail
1989 ANNUAL AVERAGE								
TOTAL HOUSEHOLDS	93.1	94.9	94.5	95.9	83.2	87.1	83.0	86.0
16-24 YRS OLD	80.5	85.9	82.9	87.7	65.3	75.2	64.8	72.3
25-54 YRS OLD	92.7	94.6	94.3	95.8	82.2	86.4	83.6	86.5
55-59 YRS OLD	95.4	96.5	96.4	97.4	88.7	90.7	90.1	91.2
60-64 YRS OLD	95.7	96.7	96.6	97.3	89.2	91.6	89.8	90.0
65-69 YRS OLD	96.3	97.0	97.1	97.7	90.3	91.9	88.8	91.0
70-99 YRS OLD	96.4	97.4	97.1	97.9	91.1	92.6	89.8	92.0

PERCENTAGE OF 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
NOVEMBER 83								
TOTAL CNP	92.8	94.5	94.1	95.6	82.7	86.6	83.4	86.5
EMPLOYED	94.1	95.9	95.0	96.6	85.7	89.8	86.3	89.6
UNEMPLOYED	82.5	86.5	84.8	88.1	74.6	81.2	76.6	79.9
NOT IN LABOR FORCE	92.1	93.4	93.8	94.9	80.8	83.7	80.4	83.0
MARCH 84								
TOTAL CNP	93.0	94.5	94.2	95.5	83.5	86.7	83.3	85.7
EMPLOYED	94.5	95.9	95.3	96.5	87.6	90.8	87.1	89.3
UNEMPLOYED	82.0	85.7	83.8	87.1	75.5	80.3	73.3	76.1
NOT IN LABOR FORCE	92.0	93.3	93.8	94.9	80.2	82.7	79.6	82.1
JULY 84								
TOTAL CNP	92.8	94.5	94.1	95.5	83.1	87.1	82.7	85.7
EMPLOYED	93.9	95.6	94.9	96.3	85.6	89.6	84.8	87.8
UNEMPLOYED	81.2	84.8	83.7	86.6	73.9	79.7	74.0	78.2
NOT IN LABOR FORCE	92.4	93.8	93.9	95.1	82.1	85.7	80.8	83.5
NOVEMBER 84								
TOTAL CNP	92.6	94.4	94.1	95.5	82.0	86.2	82.9	85.5
EMPLOYED	93.8	95.6	94.8	96.4	84.7	89.1	85.1	87.8
UNEMPLOYED	81.8	85.6	84.3	87.3	74.7	80.8	74.7	77.8
NOT IN LABOR FORCE	92.0	93.4	93.8	95.0	79.8	83.2	80.6	82.9
1984 ANNUAL AVERAGE								
TOTAL CNP	92.8	94.5	94.1	95.5	82.9	86.7	83.0	85.6
EMPLOYED	94.0	95.7	95.0	96.4	85.9	89.8	85.7	88.3
UNEMPLOYED	81.7	85.3	84.0	87.0	74.7	80.2	74.0	77.4
NOT IN LABOR FORCE	92.1	93.5	93.8	95.0	80.7	83.9	80.3	82.8
MARCH 85								
TOTAL CNP	93.0	94.5	94.2	95.5	83.5	86.8	83.3	85.4
EMPLOYED	94.3	95.8	95.1	96.4	87.1	90.2	85.1	87.4
UNEMPLOYED	82.9	86.0	84.6	87.1	76.1	81.3	72.6	75.1
NOT IN LABOR FORCE	92.1	93.5	93.8	94.9	80.2	83.4	82.5	84.3
JULY 85								
TOTAL CNP	92.9	94.6	94.0	95.5	84.5	87.9	82.9	85.0
EMPLOYED	94.0	95.8	94.8	96.4	87.4	90.6	84.5	86.5
UNEMPLOYED	83.6	87.3	85.5	88.7	78.0	83.0	77.9	80.7
NOT IN LABOR FORCE	92.2	93.6	93.6	94.8	82.0	85.1	81.1	83.5

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
NOVEMBER 85								
TOTAL CNP	93.1	94.7	94.3	95.7	84.4	87.4	84.2	86.9
EMPLOYED	94.4	96.0	95.2	96.6	87.5	90.5	85.8	88.7
UNEMPLOYED	80.5	84.3	82.4	86.0	74.9	79.0	70.9	74.9
NOT IN LABOR FORCE	92.3	93.7	93.9	95.1	82.2	85.1	84.2	86.0
1985 ANNUAL AVERAGE								
TOTAL CNP	93.0	94.6	94.2	95.6	84.1	87.4	83.5	85.8
EMPLOYED	94.2	95.8	95.0	96.5	87.3	90.4	85.1	87.5
UNEMPLOYED	82.3	85.8	84.2	87.3	76.3	81.1	73.8	76.9
NOT IN LABOR FORCE	92.2	93.6	93.8	94.9	81.5	84.5	82.6	84.6
MARCH 86								
TOTAL CNP	93.4	94.7	94.5	95.6	84.9	87.8	83.4	85.1
EMPLOYED	94.6	95.8	95.4	96.4	88.3	91.0	85.1	86.9
UNEMPLOYED	82.7	86.1	85.1	88.0	74.6	80.2	73.6	75.3
NOT IN LABOR FORCE	92.7	93.8	94.2	95.1	82.4	85.0	82.5	84.1
JULY 86								
TOTAL CNP	93.4	94.8	94.6	95.7	84.4	87.9	83.2	85.1
EMPLOYED	94.8	96.1	95.6	96.8	87.3	90.9	85.4	87.3
UNEMPLOYED	82.2	85.9	84.1	87.4	75.7	80.8	79.0	80.1
NOT IN LABOR FORCE	92.3	93.6	93.8	94.8	82.3	85.2	79.9	82.2
NOVEMBER 86								
TOTAL CNP	93.4	95.1	94.6	95.9	84.5	88.5	83.4	86.1
EMPLOYED	94.6	96.2	95.4	96.7	87.7	91.4	85.4	87.9
UNEMPLOYED	81.9	86.0	84.2	87.6	74.1	81.0	73.3	79.2
NOT IN LABOR FORCE	92.8	94.2	94.3	95.4	82.3	85.9	81.7	84.0
1986 ANNUAL AVERAGE								
TOTAL CNP	93.4	94.8	94.6	95.8	84.6	88.1	83.3	85.4
EMPLOYED	94.7	96.1	95.5	96.6	87.7	91.1	85.3	87.4
UNEMPLOYED	82.3	86.0	84.5	87.6	74.8	80.7	75.3	78.2
NOT IN LABOR FORCE	92.6	93.9	94.1	95.1	82.3	85.4	81.4	83.4
MARCH 87								
TOTAL CNP	93.6	95.0	94.8	95.9	85.0	87.9	85.5	87.3
EMPLOYED	94.8	96.1	95.6	96.7	88.6	91.1	86.7	88.6
UNEMPLOYED	84.1	87.1	86.7	89.3	75.5	80.1	82.8	84.9
NOT IN LABOR FORCE	92.8	94.0	94.3	95.2	82.0	85.2	83.9	85.5

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
JULY 87								
TOTAL CNP	93.4	94.9	94.6	95.8	85.2	88.4	84.5	86.3
EMPLOYED	94.4	96.0	95.3	96.6	87.4	90.7	86.4	88.2
UNEMPLOYED	83.9	87.3	85.9	89.1	77.5	82.1	77.1	80.5
NOT IN LABOR FORCE	92.7	93.7	94.1	94.9	83.3	86.1	82.1	83.6
NOVEMBER 87								
TOTAL CNP	93.4	94.9	94.6	95.9	84.1	87.9	83.5	85.7
EMPLOYED	94.6	96.1	95.4	96.7	87.8	91.2	85.8	88.1
UNEMPLOYED	80.0	83.8	83.3	86.3	69.2	75.6	71.2	73.5
NOT IN LABOR FORCE	92.6	94.0	94.3	95.3	81.2	85.1	81.6	83.3
1987 ANNUAL AVERAGE								
TOTAL CNP	93.5	94.9	94.7	95.9	84.7	88.1	84.5	86.4
EMPLOYED	94.6	96.1	95.4	96.7	87.9	91.0	86.3	88.3
UNEMPLOYED	82.7	86.1	85.3	88.2	74.0	79.3	77.0	79.6
NOT IN LABOR FORCE	92.7	93.9	94.2	95.2	82.2	85.5	82.5	84.1
MARCH 88								
TOTAL CNP	93.8	95.2	95.0	96.2	84.8	87.7	83.8	86.4
EMPLOYED	95.2	96.4	95.9	97.0	88.5	91.3	86.5	88.8
UNEMPLOYED	83.2	86.2	86.0	88.6	74.2	78.8	74.6	77.8
NOT IN LABOR FORCE	92.6	94.0	94.2	95.4	81.5	84.3	80.4	83.5
JULY 88								
TOTAL CNP	93.9	95.3	94.9	96.1	86.5	89.6	84.9	87.5
EMPLOYED	94.8	96.2	95.6	96.8	88.8	91.8	86.3	89.0
UNEMPLOYED	84.5	88.1	87.3	90.0	76.7	82.9	78.1	81.3
NOT IN LABOR FORCE	93.0	94.4	94.3	95.5	84.7	87.3	83.3	85.7
NOVEMBER 88								
TOTAL CNP	93.6	95.1	94.7	96.0	85.5	88.8	82.2	84.4
EMPLOYED	94.6	96.1	95.4	96.6	88.2	91.4	83.4	85.4
UNEMPLOYED	82.1	86.0	84.4	88.1	75.4	79.7	77.5	81.7
NOT IN LABOR FORCE	92.9	94.3	94.3	95.5	83.0	86.4	80.7	82.8
1988 ANNUAL AVERAGE								
TOTAL CNP	93.8	95.2	94.9	96.1	85.6	88.7	83.6	86.1
EMPLOYED	94.9	96.2	95.6	96.8	88.5	91.5	85.4	87.7
UNEMPLOYED	83.3	86.8	85.9	88.9	75.4	80.5	76.7	80.3
NOT IN LABOR FORCE	92.8	94.2	94.3	95.5	83.1	86.0	81.5	84.0

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
MARCH 89								
TOTAL CNP	94.0	95.3	95.2	96.3	85.5	88.5	83.9	85.9
EMPLOYED	95.1	96.4	95.9	97.0	88.3	91.3	85.6	87.8
UNEMPLOYED	83.6	86.4	86.4	88.5	75.9	81.0	72.0	73.3
NOT IN LABOR FORCE	93.0	94.2	94.7	95.6	83.1	85.7	82.2	84.0
JULY 89								
TOTAL CNP	94.3	95.7	95.3	96.4	86.8	90.0	85.2	87.6
EMPLOYED	95.4	96.7	96.1	97.3	89.6	92.6	87.8	90.3
UNEMPLOYED	84.7	87.5	86.4	88.6	79.4	84.0	75.2	78.1
NOT IN LABOR FORCE	93.1	94.4	94.5	95.6	83.6	86.7	82.0	84.0
NOVEMBER 89								
TOTAL CNP	94.0	95.5	95.3	96.5	85.2	88.6	85.0	87.6
EMPLOYED	95.1	96.4	95.9	97.1	88.5	91.3	86.4	88.9
UNEMPLOYED	83.3	87.6	85.9	89.3	75.7	82.6	78.0	84.5
NOT IN LABOR FORCE	93.1	94.5	94.9	95.9	81.8	85.4	83.6	85.6
1989 ANNUAL AVERAGE								
TOTAL CNP	94.1	95.5	95.3	96.4	85.8	89.0	84.7	87.0
EMPLOYED	95.2	96.5	96.0	97.1	88.8	91.7	86.6	89.0
UNEMPLOYED	83.9	87.1	86.2	88.8	77.0	82.5	75.1	78.6
NOT IN LABOR FORCE	93.1	94.4	94.7	95.7	82.8	85.9	82.6	84.6

CHART 1.3

Telephone Penetration

Individual Adults

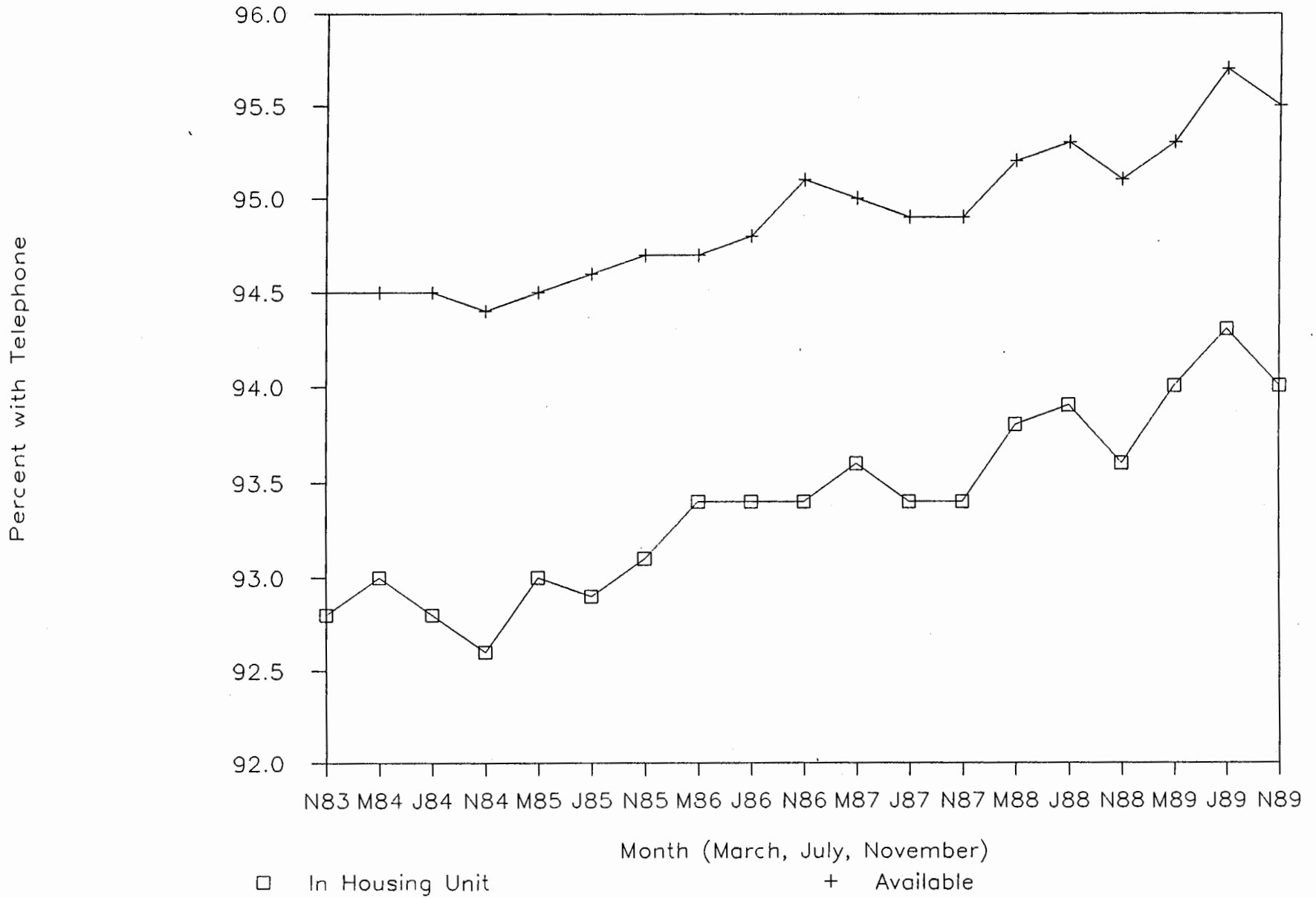


TABLE 1.7

Critical Values for Determining Significant Differences for States

<u>State</u>	<u>In Unit</u>	<u>Available</u>
Total US	0.5%	0.5%
Alabama	3.7	3.4
Alaska	5.2	4.5
Arizona	4.6	4.4
Arkansas	5.9	4.8
California	1.6	1.4
Colorado	3.3	3.0
Connecticut	2.9	1.8
Delaware	3.2	2.7
Dist. of Columbia	3.8	2.8
Florida	2.9	2.8
Georgia	5.0	4.6
Hawaii	2.7	2.1
Idaho	4.2	3.4
Illinois	2.1	1.8
Indiana	3.4	2.8
Iowa	3.0	2.3
Kansas	2.5	2.3
Kentucky	5.3	4.9
Louisiana	4.2	3.7
Maine	3.8	3.3
Maryland	3.2	2.7
Massachusetts	2.6	2.4
Michigan	2.6	2.2
Minnesota	2.7	2.4
Mississippi	5.2	4.7
Missouri	3.5	2.9
Montana	5.3	4.3
Nebraska	3.3	3.0
Nevada	5.0	4.3
New Hampshire	4.0	3.4
New Jersey	2.4	2.1
New Mexico	5.8	4.5
New York	2.1	1.8
North Carolina	4.0	3.5
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	5.0	4.4
Texas	2.6	2.3
Utah	4.7	4.6
Vermont	5.3	4.6
Virginia	4.0	3.5
Washington	4.1	3.9
West Virginia	4.4	3.9
Wisconsin	3.2	3.1
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%	0.6%	0.5%	2.2%	2.0%	4.9%	4.5%
1 Person	1.1%	1.0%	1.1%	1.0%	4.1%	3.7%	11.3%	10.8%
2 - 3	0.8%	0.7%	0.8%	0.7%	3.5%	3.0%	7.6%	7.0%
4 - 5	1.2%	1.0%	1.2%	1.0%	4.7%	4.1%	9.1%	8.2%
6 +	2.6%	2.2%	2.9%	2.5%	8.2%	7.2%	14.6%	13.2%

TABLE 1.9

Critical Values for Determining Significant Differences for Income

		ALL RACES		WHITE		BLACK		HISPANIC	
		<u>In</u>	<u>Avail-</u>	<u>In</u>	<u>Avail-</u>	<u>In</u>	<u>Avail-</u>	<u>In</u>	<u>Avail-</u>
		<u>Unit</u>	<u>able</u>	<u>Unit</u>	<u>able</u>	<u>Unit</u>	<u>able</u>	<u>Unit</u>	<u>able</u>
	Total	0.5%	0.5%	0.6%	0.5%	2.2%	2.0%	4.9%	4.5%
Under	\$5,000	1.4%	1.3%	1.6%	1.5%	3.5%	3.3%	9.2%	8.9%
	\$5,000 - \$7,499	1.7%	1.5%	1.8%	1.6%	5.7%	5.1%	11.4%	10.9%
	\$7,500 - \$9,999	1.9%	1.7%	2.0%	1.8%	7.1%	6.4%	14.5%	13.6%
	\$10,000 - \$12,499	1.8%	1.6%	1.9%	1.7%	7.0%	6.3%	14.8%	13.8%
	\$12,500 - \$14,999	2.1%	1.8%	2.1%	1.8%	8.6%	7.6%	17.4%	16.3%
	\$15,000 - \$17,499	2.2%	1.9%	2.2%	2.0%	9.1%	8.0%	19.7%	18.0%
	\$17,500 - \$19,999	2.4%	2.0%	2.4%	2.0%	10.8%	9.4%	21.1%	19.2%
	\$20,000 - \$24,999	1.7%	1.5%	1.7%	1.5%	9.1%	7.8%	16.9%	15.5%
	\$25,000 - \$29,999	2.0%	1.7%	1.9%	1.6%	11.1%	9.5%	22.2%	19.8%
	\$30,000 - \$34,999	2.1%	1.8%	2.0%	1.7%	12.6%	10.8%	24.4%	22.0%
	\$35,000 - \$39,999	2.4%	2.1%	2.4%	2.0%	15.5%	13.1%	28.5%	25.6%
	\$40,000 - \$49,999	2.2%	1.9%	2.1%	1.8%	15.3%	13.0%	29.0%	25.8%
	\$50,000 - \$74,999	2.3%	1.9%	2.2%	1.9%	16.4%	13.9%	31.1%	27.9%
	\$75,000 +	3.5%	3.0%	3.3%	2.8%	45.0%	38.0%	55.1%	48.8%

TABLE 1.10

Critical Values for Determining Significant Differences for Householder 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%	0.6%	0.5%	2.2%	2.0%	4.9%	4.5%
16 - 24 Yrs old	1.6%	1.5%	1.7%	1.5%	5.8%	5.7%	10.5%	10.4%
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%	21.3%	19.1%
60 - 64 Yrs old	2.1%	1.8%	2.1%	1.8%	9.5%	8.2%	24.7%	21.9%
65 - 69 Yrs old	2.3%	2.0%	2.3%	1.9%	10.4%	9.0%	30.1%	27.3%
70 - 99 Yrs old	1.6%	1.4%	1.6%	1.4%	7.8%	6.7%	23.1%	21.0%

TABLE 1.11

Critical Values for Determining Significant Differences for Employment Status

	ALL RACES		WHITE		BLACK		HISPANIC	
	<u>In Unit</u>	<u>Avail-able</u>	<u>In Unit</u>	<u>Avail-able</u>	<u>In Unit</u>	<u>Avail-able</u>	<u>In Unit</u>	<u>Avail-able</u>
Total CNP	0.8%	0.7%	0.8%	0.7%	3.3%	2.9%	7.4%	6.7%
Employed	1.0%	0.9%	1.0%	0.9%	4.1%	3.5%	10.0%	9.1%
Unemployed	3.2%	2.8%	3.5%	3.1%	9.5%	8.6%	24.8%	23.0%
Not in Labor Force	1.3%	1.1%	1.3%	1.1%	5.1%	4.5%	12.0%	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. ¹ 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 ² or on "NECA Lifeline Assistance SAC Detail Actual for 7/01/88 - 12/31/88". ³

Under lifeline and Link Up America programs, benefits are available to persons who pass a "means" test such as eligibility for food stamps or Medicaid. A second requirement for FCC certification is that each applicant's eligibility for benefits be verified. The state has considerable latitude in selecting means tests, shaping the benefits, and determining the

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

2 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 29, 1989.

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 is 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 is 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 is 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 is 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.

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-eight states and the District of Columbia have been certified to offer lifeline assistance pursuant to Plan 2. A total of forty 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 Commission estimates that 1,828,862 low income subscribers receive reduced rates under the federal lifeline assistance program, and over 530,000 low income households have access to the telephone network through the Link-Up America telephone connection assistance program. The National Exchange Carriers Association (NECA) estimates that the cost of lifeline assistance in participating states will be \$67,306,268 in 1990, and the cost of Link-Up connection assistance will be \$8,870,554 in 1990.

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**	1/16/89**
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	12/18/89	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	8/7/89	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. A new Link-Up program was submitted to FCC on January 5, and certified by the Commission on January 16, 1990.

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*

ARKANSAS (CONT.)

Madison County Telephone*
Magazine Telephone*
Mountain Home Telephone*
Mountain View Telephone*

Walnut Hill Telephone*
Yelcot Telephone Co.*
Yell County Telephone*

CALIFORNIA

Calaveras Telephone Co.
Contel of California
CP National Corp.-CA
Citizens Utilities of CA
California-Oregon Tel. Co.
Ducor Telephone Co.
Evans Telephone Co.
Foresthill Telephone Co.
GTC of California
Happy Valley Telephone Co.
Hornitos Telephone Co.

Kerman Telephone Co.
Ponderosa Telephone Co., The
Roseville Telephone Co.
Sierra Telephone Co.
Siskiyou Telephone Co., The
Tuolumne Telephone Co.
Volcano Telephone Co., The
West Coast Telephone of CA
Pinnacles Telephone Co.
Pacific Bell

COLORADO

US West Communications*

CONNECTICUT

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

Woodbury Telephone*

DISTRICT OF COLUMBIA

Chesapeake & Potomac Tel. Co.**

FLORIDA

Alltel Florida, Inc.*
Centel of Florida*
Florida Telephone Co.*
GTE Florida, Inc.*
Gulf Telephone Co.*
Indiantown System*

Northeast Florida*
Quincy Telephone Co.-Florida*
Southern Bell-Florida*
Southland Telephone-Florida*
St. Joseph Tel. & Tel.*
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.*

IOWA (CONT.)

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.*
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*	Southwestern Bell Telephone Co.*
Haviland Telephone Co.*	Sunflower Telephone Co.*
Home Telephone Co.*	Totah Telephone Co.*
JBN Telephone Co.*	Tri-County Telephone Assoc.*
Kansas State Telephone*	Twin Valley Telephone*
Kan-Okla Telephone Assoc.*	United Telephone Association*
LaHarpe Telephone Co.*	Wamego Telephone Co.*
Madison Telephone Co.*	Wheat State Telephone Co.*
MO-KAN Dial*	Wilson Telephone Co.*
	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.*
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.**
Lincolntonville 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**
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**

MINNESOTA (CONT.)

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**
Lonsdale**	Zumbrota**

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

Blackfoot Tel. Coop.**	Southern Monata Tel.**
Mid-Rivers Tel. Coop.**	GTE Northwest, Inc. MT**
Nemont Tel. Coop-MT**	Mountain Bell - MT**
Project Telephone Co.**	

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**
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.*
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*

PENNSYLVANIA (CONT.)

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

GTE South Inc.*	Loretto Tel. Co.*
Adamsville Tel. Co.*	North Central Coop.*
Ben Lomand Rural*	Ooltewah-Collegedale*
Bledsoe Tel. Coop.*	Peoples Tel. Co.*
Claiborne Tel. Co.*	Alltel Tennessee*
Crockett Tel. Co.*	West Tennessee Tel.*
Highland Tel. Coop.*	Yorkville Tel. Coop.*
United Inter-Mt.*	So. Central Bell -TN*

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.**
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.**
C & P Telephone Co. of WV**
Contel of West Virginia**
GTE South**

Mountain State Telephone Co.**
War Telephone Co.**
West Side Telephone Co.**

WISCONSIN

Wisconsin Bell**

WYOMING

Tel. Utilities of Wyoming, Inc.** US West**
United Telephone Co.**

* Link Up only

** Lifeline and Link Up

TABLE 2.3

LIFELINE & LINK UP STATE ELIGIBILITY QUALIFICATIONS

STATE	ENTITY	ELIGIBILITY CRITERIA	INCOME VERIFICATION
Alabama	Public Service Commission	Recipient of: SSI, AFDC, or Food Stamps	Medicaid or Food Stamp card
Arizona	Corporation Commission	Lifeline: Income below 150% poverty Link Up: Income at or below poverty and participant in Senior Telephone Discount Program	Arizona Dep't. of Economic Security
Arkansas	Public Service Commission	Recipient of: SSI, AFDC, HEAP, Food Stamps, Medicaid, or Subsidized housing	Local Exchange * Companies
California	Public Utilities Commission	Income at or below 150% poverty	Self certified (50% waiver rule)
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

STATE	ENTITY	ELIGIBILITY CRITERIA	INCOME VERIFICATION
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
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

STATE	ENTITY	ELIGIBILITY CRITERIA	INCOME VERIFICATION
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
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

STATE	ENTITY	ELIGIBILITY CRITERIA	INCOME VERIFICATION
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
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.

STATE	ENTITY	ELIGIBILITY CRITERIA	INCOME VERIFICATION
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
South Carolina	Public Service Commission	Recipient of: AFDC, Food Stamps, Medicaid, or Temporary Emergency Food Assistance	Local Exchange* Companies

STATE	ENTITY	ELIGIBILITY CRITERIA	INCOME VERIFICATION
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
Wisconsin	Wisconsin Bell	Recipient of: AFDC, SSI, Food Stamps, Title 19 Medical and Energy Assistance Programs	Dep't. of Health and Social Services
Wyoming	US West	Recipient of: SSI, AFDC, LIEAP, or Food Stamps	Dep't. of Health & Social Services
	United Tel. Co.	Recipient of: SSI, AFDC, LIEAP, Food Stamps, or Food Distribution Program	Dep't. of Health & Social Services

NOTE: * Some states rely on local telephone companies to initiate the request for program certification. In every case where a telephone company has been certified for lifeline or Link-Up America by the FCC, the original verification of income or a state established means test to determine low income eligibility is made by a state agency.

TABLE 2.4

LIFELINE STATE ENROLLMENT

STATES	DATE IMPLEMENTED	LIFELINE SUBSCRIBERS	SUBSCRIBERS ELIGIBLE	PERCENTAGE OF ELIGIBLE
ALABAMA				
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%
CONNECTICUT				
DISTRICT OF COLUMBIA	3/18/86	3,553	N/A	N/A
FLORIDA*				
HAWAII	10/27/86	6,013	19,380	31.03%
IDAHO	8/87	7,679	11,559	66.43%
INDIANA*#				
IOWA				
KANSAS				
KENTUCKY				
LOUISIANA				
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%
MISSISSIPPI				
MISSOURI	10/1/87	15,833	32,000	49.48%
MONTANA	4/1/88	104	N/A	N/A
NEBRASKA				
NEVADA	7/1/88	3,276	23,535	13.92%
NEW HAMPSHIRE				
NEW JERSEY				
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%
NORTH DAKOTA #				
OHIO	7/1/87	13,586	522,410	2.60%
OREGON	6/1/86	25,091	90,000	27.88%
PENNSYLVANIA				
PUERTO RICO				
RHODE ISLAND	11/22/88	13,520	N/A	N/A
SOUTH CAROLINA				
SOUTH DAKOTA	6/11/88	4,236	8,650	48.97%
TENNESSEE*				
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%
WISCONSIN	(7/14/89)	N/A	N/A	N/A
WYOMING*#	(8/07/89)	N/A	N/A	N/A

NO DATA AS OF DATE OF REPORT IN 1989

* REPORTED BY TELEPHONE TO THE FCC

() DATE APPROVED BY THE FCC

SOURCE: FCC FORM 496, STATE TELEPHONE ASSISTANCE REPORT,
MAY 1989; DATA AS OF DECEMBER 31, 1988.

TABLE 2.5

LINK-UP STATE ENROLLMENT

STATES	DATE IMPLEMENTED	LINK UP SUBSCRIBERS	SUBSCRIBERS ELIGIBLE	PERCENTAGE OF ELIGIBLE
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
IDAHO#	(5/12/89)	N/A	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 #	1/19/88	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%
WISCONSIN#	(7/14/89)	N/A	N/A	N/A
WYOMING**	2/23/89	175	14,124	1.24%

NO DATA AS OF DATE OF REPORT IN 1989

* REPORTED BY TELEPHONE TO THE FCC

() DATE APPROVED BY THE FCC

SOURCE: FCC FORM 496, STATE TELEPHONE ASSISTANCE REPORT,
MAY 1989; DATA AS OF DECEMBER 31, 1988.

3. Costs and High Cost Assistance

On a nationwide average basis, approximately 27 percent of local exchange carrier (LEC) local loop costs are allocated to the interstate (federal) jurisdiction,¹ and 73 percent are allocated to the state jurisdiction. The average cost per loop, however, varies significantly among LECs. The Commission's high cost assistance program enables LECs with very high per loop costs to allocate more of their loop costs to the interstate jurisdiction, thus recovering these costs from interexchange carriers and leaving less costs to be recovered through state rates. In this manner, the high cost assistance program operates to hold down local rates and thereby furthers one of the most important goals of federal and state regulation -- the preservation of universal telephone service. Consequently, the funding of this high cost assistance is known as the Universal Service Fund (USF). Acting on the recommendation of the Federal-State Joint Board in CC Docket No. 80-286, the Commission adopted rule changes that, effective January 1988, retargeted federal assistance provided to high cost LECs. This section of the report outlines the high cost assistance program and the changes adopted by the Commission, and discusses the high cost data included in the report.

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

Pursuant to the changes recommended by the Joint Board and adopted by the Commission, high cost assistance has been retargeted to increase benefits to small and medium sized LECs beginning in January 1988. This retargeting took the form of changes in the additional interstate cost allocation for such LECs. The old and new high cost formulas are compared in Table 3.1.²

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

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

The Commission's high cost assistance program is being implemented during a period in which the basic interstate allocation of loop costs is being shifted from a level based on the Subscriber Plant Factor (SPF) to a flat allocation factor of 25%. Both of these changes are being phased in over the same eight-year period.

The Commission's high cost assistance program is administered by the National Exchange Carrier Association (NECA). As part of the administration of the program, NECA collects certain cost data from LECs that provide service to approximately 98% of the nation's subscribers.³ Each year NECA collects NTS cost and loop data from the previous year, and uses it to distribute high cost assistance in the following year. State totals from NECA's 1989 report, covering high cost data for 1988, are presented in Table 3.2.⁴ 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 1990, using 1988 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 1990 is the fifth year of this transition, the annual USF payment for 1990 will be 5/8 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 3.4.⁵

Table 3.3 shows the changes from 1987 to 1988, 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

basic allocation of NTS costs to the interstate jurisdiction.

- 3 These are the carriers that settle on a cost basis.
- 4 These data are taken from the November 17, 1989, revision of the filing originally submitted on September 1, 1989.
- 5 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). In the final column, the percentages are of the national total USF.

to later year" represents the changes in the transitional amounts applicable to 1989 and 1990. The changes in the post-transitional USF amounts reflect the effect on the USF of changes in costs. The changes in the transitional amounts reflect the change in the transition factor from 4/8 to 5/8, as well as the changes in costs. 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.

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 1988

STATE	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
ALABAMA	\$463,968,175	1,755,343	\$264.32	\$11,957,602	3.53%
ALASKA	\$97,954,495	258,769	\$378.54	\$16,924,660	4.99%
ARIZONA	\$474,093,660	1,763,692	\$268.81	\$9,083,924	2.68%
ARKANSAS	\$302,520,188	962,543	\$314.29	\$13,347,510	3.93%
CALIFORNIA	\$3,420,922,121	16,130,533	\$212.08	\$22,441,836	6.62%
COLORADO	\$390,679,035	1,756,793	\$222.38	\$1,600,916	0.47%
CONNECTICUT	\$347,985,719	1,816,037	\$191.62	\$0	0.00%
DELAWARE	\$73,358,075	379,900	\$193.10	\$0	0.00%
DISTRICT OF COLUMBIA	\$67,374,336	792,735	\$84.99	\$0	0.00%
FLORIDA	\$2,123,132,571	6,968,845	\$304.66	\$22,421,597	6.61%
GEORGIA	\$918,371,178	3,051,354	\$300.97	\$20,074,223	5.92%
HAWAII	\$90,686,642	544,748	\$166.47	\$0	0.00%
IDAHO	\$122,068,724	444,818	\$274.42	\$7,181,442	2.12%
ILLINOIS	\$960,341,850	6,064,742	\$158.35	\$1,038,121	0.31%
INDIANA	\$546,866,130	2,500,844	\$218.67	\$1,784,424	0.53%
IOWA	\$257,724,567	1,273,677	\$202.35	\$1,093,267	0.32%
KANSAS	\$316,418,994	1,207,249	\$262.10	\$6,061,884	1.79%
KENTUCKY	\$423,294,811	1,512,476	\$279.87	\$4,738,159	1.40%
LOUISIANA	\$589,475,222	1,870,917	\$315.07	\$12,675,978	3.74%
MAINE	\$179,228,626	615,586	\$291.15	\$2,697,215	0.80%
MARYLAND	\$481,392,525	2,615,317	\$184.07	\$0	0.00%
MASSACHUSETTS	\$555,685,137	3,439,457	\$161.56	\$0	0.00%
MICHIGAN	\$973,979,360	4,632,396	\$210.25	\$1,268,142	0.37%
MINNESOTA	\$460,798,721	2,200,339	\$209.42	\$3,257,037	0.96%
MISSISSIPPI	\$327,794,476	974,276	\$336.45	\$6,666,676	1.97%
MISSOURI	\$570,627,131	2,441,269	\$233.74	\$21,576,475	6.36%
MONTANA	\$117,769,471	369,932	\$318.35	\$4,989,227	1.47%
NEBRASKA	\$171,713,516	807,716	\$212.59	\$2,530,762	0.75%
NEVADA	\$129,359,510	624,741	\$207.06	\$1,970,721	0.58%
NEW HAMPSHIRE	\$191,235,355	595,471	\$321.15	\$2,442,529	0.72%
NEW JERSEY	\$762,192,747	4,714,496	\$161.67	\$0	0.00%
NEW MEXICO	\$180,708,190	639,421	\$282.61	\$10,999,349	3.24%
NEW YORK	\$2,156,159,101	10,200,580	\$211.38	\$7,137,872	2.10%
NORTH CAROLINA	\$844,827,435	3,123,618	\$270.46	\$8,791,898	2.59%
NORTH DAKOTA	\$90,145,729	339,742	\$265.34	\$1,299,179	0.38%
OHIO	\$1,099,764,351	5,156,325	\$213.28	\$865,517	0.26%
OKLAHOMA	\$426,295,226	1,469,070	\$290.18	\$15,476,611	4.56%
OREGON	\$342,220,099	1,393,045	\$245.66	\$6,832,026	2.01%
PENNSYLVANIA	\$1,095,126,429	6,209,971	\$176.35	\$1,070,447	0.32%
PUERTO RICO	\$202,682,003	835,592	\$242.56	\$617,571	0.18%
RHODE ISLAND	\$99,327,661	514,739	\$192.97	\$0	0.00%
SOUTH CAROLINA	\$473,739,060	1,495,955	\$316.68	\$6,751,055	1.99%
SOUTH DAKOTA	\$78,883,012	320,440	\$246.17	\$1,287,247	0.38%
TENNESSEE	\$566,243,961	2,318,040	\$244.28	\$1,722,271	0.51%
TEXAS	\$2,293,138,853	7,987,375	\$287.10	\$44,784,787	13.20%
UTAH	\$142,817,011	701,519	\$203.58	\$1,431,798	0.42%
VERMONT	\$100,309,470	295,021	\$340.01	\$2,755,141	0.81%
VIRGIN ISLANDS	\$18,933,872	44,087	\$429.47	\$3,190,797	0.94%
VIRGINIA	\$724,912,120	3,113,617	\$232.82	\$1,362,034	0.40%
WASHINGTON	\$548,343,516	2,417,272	\$226.84	\$7,329,485	2.16%
WEST VIRGINIA	\$271,120,638	767,336	\$353.33	\$9,007,868	2.66%
WISCONSIN	\$521,571,972	2,384,786	\$218.71	\$1,193,406	0.35%
WYOMING	\$102,344,765	228,968	\$446.98	\$5,473,280	1.61%
INDUSTRY TOTAL	\$29,288,627,542	127,043,530	\$230.54	\$339,203,966	100.00%

TOTAL NUMBER OF STUDY AREA CODES: 1456

TABLE 3.3

National Exchange Carrier Association
Universal Service Fund
State Summary
Percentage Changes from 1987 to 1988

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	6.33%	5.52%	0.77%	22.79%	53.49%
ALASKA	-1.04%	3.13%	-4.05%	-4.81%	18.99%
ARIZONA	6.13%	4.21%	1.84%	7.82%	34.77%
ARKANSAS	1.88%	2.18%	-0.29%	22.48%	53.10%
CALIFORNIA	1.93%	4.95%	-2.87%	-5.83%	17.72%
COLORADO	9.99%	2.44%	7.37%	-2.58%	21.78%
CONNECTICUT	-3.89%	3.80%	-7.42%	0.00%	0.00%
DELAWARE	10.19%	3.02%	6.96%	0.00%	0.00%
DISTRICT OF COLUMBIA	-17.60%	2.16%	-19.33%	0.00%	0.00%
FLORIDA	8.82%	4.77%	3.87%	30.96%	63.70%
GEORGIA	9.68%	2.90%	6.59%	35.75%	69.69%
HAWAII	5.23%	8.24%	-2.78%	0.00%	0.00%
IDAHO	1.04%	3.79%	-2.64%	45.91%	82.39%
ILLINOIS	-0.56%	2.71%	-3.18%	-31.99%	-14.98%
INDIANA	4.50%	4.19%	0.30%	70.87%	113.58%
IOWA	-2.07%	-1.31%	-0.78%	44.92%	81.15%
KANSAS	2.92%	1.33%	1.57%	-28.49%	-10.61%
KENTUCKY	4.04%	3.57%	0.45%	-4.78%	19.02%
LOUISIANA	2.61%	1.81%	0.79%	8.92%	36.15%
MAINE	19.45%	5.74%	12.96%	68.98%	111.23%
MARYLAND	2.23%	3.54%	-1.26%	0.00%	0.00%
MASSACHUSETTS	11.08%	4.13%	6.67%	0.00%	0.00%
MICHIGAN	18.10%	4.00%	13.56%	10.54%	38.17%
MINNESOTA	1.32%	3.13%	-1.76%	52.80%	91.00%
MISSISSIPPI	5.82%	4.10%	1.65%	11.26%	39.07%
MISSOURI	0.20%	1.14%	-0.93%	4.03%	30.04%
MONTANA	-0.16%	1.64%	-1.77%	-1.75%	22.82%
NEBRASKA	13.30%	3.15%	9.83%	-6.99%	16.26%
NEVADA	0.67%	8.30%	-7.05%	-43.36%	-29.20%
NEW HAMPSHIRE	26.64%	5.24%	20.34%	421.04%	551.30%
NEW JERSEY	-1.98%	3.89%	-5.65%	0.00%	0.00%
NEW MEXICO	5.80%	2.80%	2.92%	-0.80%	24.00%
NEW YORK	-7.95%	2.45%	-10.16%	14.52%	43.15%
NORTH CAROLINA	10.74%	3.85%	6.64%	13.45%	41.82%
NORTH DAKOTA	0.83%	1.06%	-0.24%	-13.13%	8.59%
OHIO	7.23%	3.62%	3.48%	81.75%	127.19%
OKLAHOMA	1.75%	-0.52%	2.28%	4.72%	30.91%
OREGON	6.87%	4.59%	2.17%	-2.41%	21.99%
PENNSYLVANIA	3.41%	3.50%	-0.09%	-4.07%	19.91%
PUERTO RICO	2.92%	9.23%	-5.78%	ERR	ERR
RHODE ISLAND	7.16%	4.61%	2.44%	0.00%	0.00%
SOUTH CAROLINA	9.42%	3.98%	5.23%	23.83%	54.79%
SOUTH DAKOTA	-2.70%	2.48%	-5.05%	-3.30%	20.88%
TENNESSEE	8.73%	3.86%	4.68%	2.47%	28.08%
TEXAS	7.53%	1.43%	6.02%	0.23%	25.29%
UTAH	7.18%	2.23%	4.84%	27.61%	59.51%
VERMONT	20.60%	5.26%	14.58%	41.80%	77.25%
VIRGIN ISLANDS	-0.28%	7.43%	-7.18%	-12.22%	9.73%
VIRGINIA	2.26%	4.95%	-2.57%	-39.81%	-24.76%
WASHINGTON	8.85%	2.73%	5.96%	7.16%	33.95%
WEST VIRGINIA	1.88%	1.83%	0.05%	12.02%	40.02%
WISCONSIN	5.92%	3.39%	2.45%	-14.93%	6.33%
WYOMING	16.48%	1.59%	14.65%	82.77%	128.46%
INDUSTRY TOTAL	4.29%	3.48%	0.78%	8.64%	35.79%

TOTAL NUMBER OF STUDY AREA CODES: -0.75%

* Percentage changes from 1989 to 1990

TABLE 3.4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
STATE TOTAL:		ALABAMA	\$463,968,175	1,755,343	\$264.32	\$11,957,602	3.525%
250281	C 2	CONTINENTAL TEL CO OF THE SOUTH - AL	\$31,043,041	75,632	\$410.45	\$4,799,796	1.415%
250282	A 3	BLOUNTSVILLE TEL. COMPANY INC.	\$472,655	1,936	\$244.14	\$0	0.000%
250283	A 3	BRINDLEE MOUNTAIN TEL. COMPANY	\$2,194,330	8,988	\$244.14	\$0	0.000%
250284	C 3	BUTLER TELEPHONE CO. INC.	\$1,185,023	3,165	\$374.41	\$147,390	0.043%
250285	A 3	CASTLEBERRY TEL. COMPANY INC.	\$176,269	722	\$244.14	\$0	0.000%
250286	A 3	NATIONAL TEL. CO. OF AL	\$442,870	1,814	\$244.14	\$0	0.000%
250290	A 3	FARMERS TEL COOP INC - ALABAMA	\$3,394,523	13,904	\$244.14	\$0	0.000%
250293	C 2	GTE SOUTH INC. - ALABAMA	\$39,611,665	115,439	\$343.14	\$3,695,491	1.089%
250295	A 3	GRACEBA TOTAL COMMUNICATIONS	\$833,982	3,416	\$244.14	\$0	0.000%
250296	A 3	GOSHEN TELEPHONE COMPANY	\$159,668	654	\$244.14	\$0	0.000%
250297	C 3	GROVE HILL TEL. CORP.	\$500,297	1,653	\$302.66	\$25,735	0.008%
250298	C 3	GULF TELEPHONE COMPANY - ALABAMA	\$6,747,310	23,497	\$287.16	\$217,788	0.064%
250299	A 3	HAYNEVILLE TEL. COMPANY INC.	\$361,327	1,480	\$244.14	\$0	0.000%
250300	C 3	HOPPER TEL. COMPANY INC.	\$952,267	2,635	\$361.39	\$106,619	0.031%
250301	A 3	LAMAR COUNTY TEL. COMPANY	\$425,780	1,744	\$244.14	\$0	0.000%
250302	C 2	ALLTEL ALABAMA	\$6,801,340	16,479	\$412.73	\$1,063,410	0.314%
250304	C 3	MILLRY TELEPHONE CO. INC	\$2,247,914	4,772	\$471.06	\$438,398	0.129%
250305	A 3	MON-CRE TEL. COOP. INC.	\$569,823	2,334	\$244.14	\$0	0.000%
250306	C 3	MONROEVILLE TELEPHONE COMPANY	\$3,383,659	9,979	\$339.08	\$302,987	0.089%
250307	A 3	MOUNDVILLE TELEPHONE COMPANY	\$268,554	1,100	\$244.14	\$0	0.000%
250308	A 3	NEW HOPE TEL. COOP. INC.- AL	\$1,033,200	4,232	\$244.14	\$0	0.000%
250311	A 2	OAKMAN TEL. COMPANY INC.	\$478,026	1,958	\$244.14	\$0	0.000%
250312	A 3	ONEONTA TEL. COMPANY INC.	\$1,219,968	4,997	\$244.14	\$0	0.000%
250314	C 2	PEOPLES TELEPHONE COMPANY	\$3,534,146	9,908	\$356.70	\$379,105	0.112%
250315	A 3	PINE BELT TELEPHONE COMPANY	\$453,124	1,856	\$244.14	\$0	0.000%
250316	C 3	RAGLAND TEL. CO.	\$281,214	988	\$284.63	\$8,145	0.002%
250317	A 3	ROANOKE TEL. CO. INC.	\$916,502	3,754	\$244.14	\$0	0.000%
250318	C 3	SOUTHLAND TEL. CO.-AL	\$3,176,586	8,820	\$360.16	\$351,808	0.104%
250322	A 3	UNION SPRINGS TEL. COMPANY	\$875,730	3,587	\$244.14	\$0	0.000%
250461	C 3	SOUTHEAST MISSISSIPPI TEL. CO.	\$1,836,808	3,413	\$538.18	\$420,930	0.124%
255181	C 1	SOUTH CENTRAL BELL-AL	\$348,390,574	1,420,487	\$245.26	\$0	0.000%
STATE TOTAL:		ALASKA	\$97,954,495	258,769	\$378.54	\$16,924,660	4.990%
613000	C 2	ANCHORAGE TELEPHONE UTILITY	\$24,018,572	118,036	\$203.49	\$0	0.000%
613001	C 3	ARCTIC SLOPE TEL. ASSOCIATION COOP.IN	\$1,193,643	1,262	\$945.83	\$396,796	0.117%
613002	A 3	BETTLES TELEPHONE CO. INC.	\$22,902	44	\$520.50	\$5,062	0.001%
613003	C 3	BRISTOL BAY TELEPHONE COOP. INC.	\$778,494	1,045	\$744.97	\$230,181	0.068%
613004	C 3	BUSH-TELL INC.	\$347,733	511	\$680.49	\$97,112	0.029%
613005	A 3	CIRCLE UTILITIES	\$11,930	18	\$662.79	\$3,271	0.001%
613006	C 3	COPPER VALLEY TEL. COOP. INC.	\$1,638,528	2,852	\$574.52	\$400,332	0.118%
613007	C 3	CORDOVA TELEPHONE COOPERATIVE, INC.	\$446,785	1,272	\$351.25	\$45,426	0.013%
613008	C 3	FAIRBANKS MUNICIPAL UTILITIES SYSTEM	\$9,727,358	25,115	\$387.31	\$1,321,363	0.390%
613009	C 2	GTE ALASKA INCORPORATED	\$2,781,540	11,989	\$232.01	\$0	0.000%
613010	C 2	GLACIER STATE TELEPHONE COMPANY	\$19,900,058	28,690	\$693.62	\$5,628,799	1.659%
613011	C 3	INTERIOR TELEPHONE COMPANY INC.	\$1,946,403	2,272	\$856.69	\$619,432	0.183%
613012	C 2	JUNEAU & DOUGLAS TELEPHONE COMPANY	\$5,048,654	14,471	\$348.88	\$500,697	0.148%
613013	C 3	KETCHIKAN PUBLIC UTILITIES	\$2,377,250	6,873	\$345.88	\$228,141	0.067%
613015	C 3	MATANUSKA TELEPHONE ASSOC., INC.	\$17,923,660	25,952	\$690.65	\$5,055,612	1.490%
613016	C 3	MUKLUK TEL. COMPANY, INC.	\$624,013	642	\$971.98	\$209,725	0.062%
613017	A 3	NATIONAL UTILITIES INC.	\$473,294	1,627	\$290.90	\$17,551	0.005%
613018	C 3	NUSHAGAK TELEPHONE COOPERATIVE, INC.	\$913,364	1,280	\$713.57	\$263,104	0.078%
613019	C 3	OTZ TELEPHONE COOPERATIVE, INC.	\$721,342	1,553	\$464.48	\$137,887	0.041%
613020	C 2	SITKA TELEPHONE COMPANY	\$4,444,388	7,308	\$608.15	\$1,141,007	0.336%
613022	C 2	TELEPHONE UTILITIES OF ALASKA	\$289,976	2,339	\$123.97	\$0	0.000%
613023	C 3	UNITED UTILITIES INC.	\$2,012,223	3,163	\$636.18	\$535,397	0.158%
613025	C 3	YUKON TELEPHONE COMPANY, INC.	\$252,590	322	\$784.44	\$76,884	0.023%
613026	A 3	NORTH COUNTRY TELEPHONE COMPANY	\$39,140	95	\$412.00	\$6,098	0.002%
613028	A 3	SUMMIT TEL & TEL CO OF ALASKA	\$20,655	38	\$543.56	\$4,783	0.001%

TABLE 3.4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
STATE TOTAL:		ARIZONA	\$474,093,660	1,763,692	\$268.81	\$9,083,924	2.678%
452171	C 3	ARIZONA TEL. CO.	\$875,506	1,746	\$501.44	\$185,272	0.055%
452172	C 2	CITIZENS UTILITIES RURAL COMPANY INC.	\$18,816,835	39,718	\$473.76	\$3,699,235	1.091%
452173	C 3	PAPAGO TRIBAL UTILITY AUTHORITY	\$634,458	1,386	\$457.76	\$118,694	0.035%
452174	A 3	SOUTHWESTERN TEL. CO.	\$568,846	2,330	\$244.14	\$0	0.000%
452175	C 3	UNIVERSAL TEL CO OF SOUTHWEST - AZ	\$284,377	1,101	\$258.29	\$0	0.000%
452176	C 3	VALLEY TELEPHONE COOPERATIVE INC-AZ	\$1,323,378	1,820	\$727.13	\$385,669	0.114%
452177	C 2	CONTEL OF THE WEST - ARIZONA	\$12,075,240	22,964	\$525.83	\$2,699,275	0.796%
452275	C 2	NAVAJO COMMUNICATIONS CO. INC.- AZ	\$5,755,068	7,057	\$815.51	\$1,787,759	0.527%
452302	C 2	CONTEL OF CALIFORNIA - ARIZONA	\$1,828,182	5,033	\$363.24	\$208,020	0.061%
455101	C 1	MOUNTAIN BELL-ARIZONA	\$431,931,770	1,680,537	\$257.02	\$0	0.000%
STATE TOTAL:		ARKANSAS	\$302,520,188	962,543	\$314.29	\$13,347,510	3.935%
401691	C 2	ALLTEL ARKANSAS, INC.	\$19,494,028	56,827	\$343.04	\$1,817,043	0.536%
401692	C 3	ARKANSAS TELEPHONE COMPANY	\$1,400,610	5,660	\$247.46	\$0	0.000%
401697	C 3	CENTRAL ARKANSAS TEL. COOP INC.	\$664,496	1,965	\$338.17	\$58,938	0.017%
401698	C 2	CLEVELAND CTY TEL. CO.	\$1,470,928	2,223	\$661.69	\$402,877	0.119%
401699	C 2	DECATUR TELEPHONE CO INC- ARKANSAS	\$380,683	923	\$412.44	\$59,435	0.018%
401702	C 3	SOUTH ARKANSAS TEL. CO., INC.	\$1,022,599	3,261	\$313.58	\$65,240	0.019%
401704	A 3	LAVACA TELEPHONE-AR	\$287,109	1,176	\$244.14	\$0	0.000%
401705	C 2	LIBERTY TEL. & COMMUNICATIONS INC.	\$3,892,049	10,901	\$357.04	\$418,871	0.123%
401709	C 3	MADISON COUNTY TEL. CO. INC.	\$586,646	1,958	\$299.61	\$28,061	0.008%
401710	A 3	MAGAZINE TELEPHONE COMPANY	\$184,363	689	\$267.58	\$909	0.000%
401711	C 2	MOUNTAIN HOME TELEPHONE COMPANY INC.	\$3,687,422	13,910	\$265.09	\$4,260	0.001%
401712	A 3	MOUNTAIN VIEW TELEPHONE COMPANY	\$903,806	3,702	\$244.14	\$0	0.000%
401713	C 3	NORTHERN ARKANSAS TEL. CO., INC.	\$1,285,301	3,908	\$328.89	\$102,487	0.030%
401717	A 3	PERCO TELEPHONE COMPANY	\$600,861	2,039	\$294.68	\$25,131	0.007%
401718	A 3	PRAIRIE GROVE TELEPHONE COMPANY	\$1,513,424	6,199	\$244.14	\$0	0.000%
401720	C 2	REDFIELD TELEPHONE COMPANY INC.	\$599,863	1,318	\$455.13	\$111,247	0.033%
401721	A 3	RICE BELT TEL. CO., INC.	\$256,786	922	\$278.51	\$5,307	0.002%
401722	A 3	E. RITTER TELEPHONE COMPANY	\$907,224	3,716	\$244.14	\$0	0.000%
401724	A 3	SOUTHWEST ARKANSAS TEL. COOP. INC.	\$1,112,790	4,558	\$244.14	\$0	0.000%
401726	C 3	TRI-COUNTY TEL. CO. INC.-AR	\$1,657,876	3,733	\$444.11	\$295,794	0.087%
401727	C 2	UNION TELEPHONE COMPANY INC.	\$537,409	864	\$622.00	\$140,508	0.041%
401728	C 2	UTC OF ARKANSAS	\$3,849,233	16,791	\$229.24	\$0	0.000%
401729	C 3	WALNUT HILL TELEPHONE COMPANY	\$2,503,472	4,324	\$578.97	\$615,981	0.182%
401730	C 2	CONTEL OF ARKANSAS, INC.	\$25,957,113	64,499	\$402.44	\$3,850,993	1.135%
401733	C 3	YELCOT TEL. CO., INC.	\$852,100	2,609	\$326.60	\$65,991	0.019%
401734	C 3	YELL COUNTY TELEPHONE COMPANY	\$1,034,140	4,058	\$254.84	\$0	0.000%
402080	C 2	GTE SOUTHWEST INC. - ARKANSAS	\$25,482,084	61,987	\$411.09	\$3,952,446	1.165%
405211	C 1	SOUTHWESTERN BELL-ARKANSAS	\$200,395,773	677,823	\$295.65	\$1,325,991	0.391%
STATE TOTAL:		CALIFORNIA	\$3,420,922,121	16,130,533	\$212.08	\$22,441,836	6.616%
542301	C 3	CALAVERAS TELEPHONE COMPANY	\$803,359	1,658	\$484.53	\$162,795	0.048%
542302	C 2	CONTEL OF CALIFORNIA - CALIFORNIA	\$112,343,515	247,680	\$453.58	\$5,585,184	1.647%
542304	C 2	C P NATIONAL CORP. - CALIFORNIA	\$4,632,216	11,096	\$417.47	\$740,658	0.218%
542308	C 2	CITIZENS UTILITIES CO. OF CALIF.	\$29,116,601	55,130	\$528.14	\$6,539,796	1.928%
542311	C 3	CALIFORNIA-OREGON TELEPHONE CO	\$1,155,745	2,044	\$565.43	\$278,201	0.082%
542313	C 3	DUCOR TELEPHONE COMPANY	\$304,094	581	\$523.40	\$67,632	0.020%
542315	C 3	EVANS TELEPHONE COMPANY	\$2,425,344	7,643	\$317.33	\$164,516	0.049%
542318	C 3	FORESTHILL TELEPHONE COMPANY	\$542,414	1,806	\$300.34	\$26,413	0.008%
542319	C 2	GENERAL TEL CO OF CALIFORNIA	\$859,803,245	3,032,722	\$283.51	\$3,639,266	1.073%
542321	C 3	HAPPY VALLEY TELEPHONE COMPANY	\$1,699,770	2,473	\$687.33	\$477,907	0.141%
542322	C 3	HORNITOS TELEPHONE COMPANY	\$477,544	443	\$1,077.98	\$166,729	0.049%
542323	C 3	WINTERHAVEN TELEPHONE COMPANY	\$403,225	1,151	\$350.33	\$40,609	0.012%
542324	C 3	KERMAN TELEPHONE COMPANY	\$1,288,639	4,037	\$319.21	\$90,000	0.027%
542332	C 3	THE PONDEROSA TELEPHONE COMPANY	\$4,041,461	5,444	\$742.37	\$1,192,508	0.352%
542334	C 2	ROSEVILLE TELEPHONE COMPANY	\$13,195,048	62,604	\$210.77	\$0	0.000%
542338	C 3	SIERRA TELEPHONE COMPANY, INC.	\$5,937,645	11,113	\$534.30	\$1,350,368	0.398%

TABLE 3.4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
CALIFORNIA (CONT.)							
542339	C 3	THE SISKIYOU TELEPHONE CO.	\$1,766,264	3,129	\$564.48	\$424,488	0.125%
542342	C 2	TUOLUMNE TELEPHONE COMPANY	\$3,357,658	4,144	\$810.25	\$1,039,600	0.306%
542343	C 3	THE VOLCANO TELEPHONE COMPANY	\$2,561,690	7,496	\$341.74	\$235,702	0.069%
542344	C 2	WEST COAST TEL. CO. OF CALIFORNIA	\$2,866,793	8,871	\$323.16	\$211,961	0.062%
542346	C 3	PINNACLES TELEPHONE COMPANY	\$48,190	117	\$411.88	\$7,503	0.002%
545170	C 1	PACIFIC BELL	\$2,372,151,661	12,659,151	\$187.39	\$0	0.000%
STATE TOTAL:		COLORADO	\$390,679,035	1,756,793	\$222.38	\$1,600,916	0.472%
461835	C 3	SUNFLOWER TELEPHONE CO., INC. - CO	\$172,590	292	\$591.06	\$43,251	0.013%
462178	A 3	AGATE TELEPHONE CO.	\$37,731	90	\$419.23	\$6,082	0.002%
462181	C 3	BIJOU TEL COOPERATIVE ASSOC. INC	\$240,503	954	\$252.10	\$0	0.000%
462182	C 3	BLANCA TELEPHONE CO.	\$264,567	464	\$570.19	\$64,189	0.019%
462184	C 3	DELTA COUNTY TELE-COMM INC.	\$1,449,708	5,930	\$244.47	\$0	0.000%
462185	C 2	EAGLE TELECOMMUNICATIONS INC.	\$2,698,125	5,232	\$515.70	\$590,137	0.174%
462186	C 3	EASTERN SLOPE RURAL TEL ASSN INC	\$1,070,573	3,777	\$283.45	\$29,319	0.009%
462187	C 1	EL PASO COUNTY MUTUAL TEL CO	\$728,172	1,868	\$389.81	\$100,475	0.030%
462188	C 3	FARMERS TEL CO, INC. - COLORADO	\$168,991	280	\$603.54	\$43,111	0.013%
462190	C 3	HAXTUN TELEPHONE COMPANY	\$460,015	1,211	\$379.86	\$59,483	0.018%
462192	C 3	BIG SANDY TELECOM INC.	\$442,254	643	\$687.80	\$124,400	0.037%
462193	C 3	NUCLA-NATURITA TEL. CO.	\$427,382	1,047	\$408.20	\$65,339	0.019%
462194	C 3	NUNN TEL. COMPANY	\$150,096	261	\$575.08	\$36,705	0.011%
462196	C 3	PEETZ COOP. TEL. CO.	\$80,127	182	\$440.26	\$14,092	0.004%
462197	A 3	PHILLIPS COUNTY TEL. CO.	\$391,601	1,604	\$244.14	\$0	0.000%
462198	A 3	PINE DRIVE TEL. CO.	\$123,779	507	\$244.14	\$0	0.000%
462199	C 3	PLAINS COOPERATIVE TEL. ASSOC. INC.	\$418,877	1,331	\$314.71	\$27,236	0.008%
462201	A 3	RICO TEL. CO.	\$35,708	83	\$430.22	\$6,036	0.002%
462202	A 3	ROGGEN TELEPHONE COOPERATIVE CO.	\$57,009	166	\$343.43	\$5,334	0.002%
462203	C 3	THE RYE TELEPHONE CO. INC.	\$623,416	1,269	\$491.27	\$128,605	0.038%
462204	C 3	COLUMBINE TELEPHONE COMPANY	\$446,632	626	\$713.47	\$128,643	0.038%
462206	A 3	STONEHAM COOPERATIVE TEL. CO.	\$31,015	68	\$456.11	\$5,771	0.002%
462207	C 3	STRASBURG TEL. CO.	\$194,562	869	\$223.89	\$0	0.000%
462208	C 3	UNIVERSAL TEL. CO. OF COLORADO	\$1,171,108	3,772	\$310.47	\$70,678	0.021%
462209	C 3	WIGGINS TEL. ASSOC.	\$400,957	1,096	\$365.84	\$46,635	0.014%
462210	A 3	WILLARD TEL. CO.	\$26,089	53	\$492.24	\$5,395	0.002%
465102	C 1	MOUNTAIN BELL-COLORADO	\$378,367,448	1,723,118	\$219.58	\$0	0.000%
STATE TOTAL:		CONNECTICUT	\$347,985,719	1,816,037	\$191.62	\$0	0.000%
132454	A 3	THE WOODBURY TEL. CO.	\$3,701,651	15,162	\$244.14	\$0	0.000%
135200	C 2	SOUTHERN NEW ENGLAND TEL.	\$344,284,068	1,800,875	\$191.18	\$0	0.000%
STATE TOTAL:		DELAWARE	\$73,358,075	379,900	\$193.10	\$0	0.000%
565010	C 1	DIAMOND STATE TEL. CO.	\$73,358,075	379,900	\$193.10	\$0	0.000%
STATE TOTAL:		DISTRICT OF COLUMBIA	\$67,374,336	792,735	\$84.99	\$0	0.000%
575020	C 1	C & P TELEPHONE CO. OF WASHINGTON DC	\$67,374,336	792,735	\$84.99	\$0	0.000%
STATE TOTAL:		FLORIDA	\$2,123,132,571	6,968,845	\$304.66	\$22,421,597	6.610%
210291	C 3	FLORALA TELEPHONE COMPANY- FLORIDA	\$1,028,825	2,689	\$382.60	\$135,542	0.040%
210318	C 3	SOUTHLAND TELEPHONE COMPANY-FL	\$1,081,394	2,864	\$377.58	\$137,615	0.041%
210328	C 2	GTE FLORIDA INCORPORATED	\$458,152,039	1,576,779	\$290.56	\$2,581,976	0.761%
210329	C 3	GULF TEL. CO.- FL	\$1,811,039	7,040	\$257.25	\$0	0.000%
210330	C 3	VISTA-UNITED TELECOMMUNICATIONS SYSTE	\$2,061,704	9,141	\$225.54	\$0	0.000%
210331	C 3	INDIANTOWN TELEPHONE SYSTEM	\$1,060,196	2,013	\$526.67	\$237,408	0.070%
210335	C 3	NORTHEAST FLORIDA TEL. CO., INC.	\$2,127,984	4,865	\$437.41	\$370,227	0.109%
210336	C 2	ALLTEL FLORIDA INC.	\$19,281,183	46,100	\$418.25	\$3,094,174	0.912%

TABLE 3.4

PAGE 4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL	
FLORIDA (CONT.)								
210338	C 2	QUINCY TELEPHONE CO-FL DIV.	\$2,496,469	8,195	\$304.63	\$134,142	0.040%	
210339	C 3	ST. JOSEPH TEL. AND TELE. CO.	\$7,334,646	20,241	\$362.37	\$828,363	0.244%	
210340	C 2	CENTRAL TELEPHONE COMPANY OF FLORIDA	\$53,471,405	239,795	\$222.99	\$0	0.000%	
210341	C 2	UNITED TELEPHONE CO. OF FLORIDA	\$276,875,476	922,832	\$300.03	\$2,059,069	0.607%	
215191	C 1	SOUTHERN BELL-FLORIDA	\$1,296,350,211	4,126,291	\$314.17	\$12,843,081	3.786%	
STATE TOTAL:			GEORGIA	\$918,371,178	3,051,354	\$300.97	\$20,074,223	5.918%
220281	C 2	CONTINENTAL TEL CO OF THE SOUTH-GA	\$18,197,733	59,216	\$307.31	\$1,033,689	0.305%	
220324	C 3	VALLEY TEL. CO. - GA	\$958,005	3,924	\$244.14	\$0	0.000%	
220338	C 2	QUINCY TELEPHONE CO-GA DIV.	\$187,514	566	\$331.30	\$15,395	0.005%	
220344	C 3	ALMA TELEPHONE CO INC	\$1,858,216	5,160	\$360.12	\$205,723	0.061%	
220346	A 3	BLUE RIDGE TELEPHONE COMPANY	\$1,302,731	5,336	\$244.14	\$0	0.000%	
220347	C 3	BRANTLEY TELEPHONE COMPANY INC.	\$1,102,674	2,980	\$370.02	\$132,629	0.039%	
220348	A 3	BULLOCH COUNTY RURAL TEL. COOP INC.	\$1,300,534	5,327	\$244.14	\$0	0.000%	
220351	C 3	CAMDEN TEL & TEL CO INC - GEORGIA	\$3,004,998	9,862	\$304.70	\$161,675	0.048%	
220354	A 3	CHICKAMAUGA TEL. CORP.	\$927,488	3,799	\$244.14	\$0	0.000%	
220355	C 3	CITIZENS TELEPHONE CO INC - GEORGIA	\$1,284,059	3,781	\$339.61	\$115,628	0.034%	
220356	C 3	COASTAL UTILITIES INC	\$4,514,034	19,776	\$228.26	\$0	0.000%	
220357	A 2	ALLTEL GEORGIA INC.	\$8,688,698	35,589	\$244.14	\$0	0.000%	
220358	C 3	DARIEN TELEPHONE CO. INC.	\$1,014,207	3,458	\$293.29	\$40,675	0.012%	
220360	C 3	ELLIJAY TEL. CO.	\$1,518,398	6,454	\$235.26	\$0	0.000%	
220362	A 3	FAIRMOUNT TELEPHONE CO. INC.	\$370,116	1,516	\$244.14	\$0	0.000%	
220364	A 3	GEORGIA TELEPHONE CORPORATION	\$1,167,966	4,784	\$244.14	\$0	0.000%	
220365	A 3	GLENWOOD TEL. CO. INC.	\$172,119	705	\$244.14	\$0	0.000%	
220368	A 3	HART COUNTY TELEPHONE COMPANY	\$1,579,830	6,471	\$244.14	\$0	0.000%	
220369	A 3	HAWKINSVILLE TELEPHONE CO.	\$829,344	3,397	\$244.14	\$0	0.000%	
220371	C 3	INTERSTATE TELEPHONE COMPANY	\$1,280,290	9,373	\$136.59	\$0	0.000%	
220375	A 3	NELSON-BALL GROUND TEL. CO.	\$834,959	3,420	\$244.14	\$0	0.000%	
220376	A 3	PEMBROKE TELEPHONE CO. INC.	\$625,975	2,564	\$244.14	\$0	0.000%	
220377	C 3	PINELAND TELEPHONE COOP	\$2,390,106	8,536	\$280.00	\$54,310	0.016%	
220378	A 3	PLANTERS RURAL TEL. COOP INC.	\$1,256,100	5,145	\$244.14	\$0	0.000%	
220379	C 3	PLANT TELEPHONE COMPANY	\$2,804,335	7,161	\$391.61	\$391,214	0.115%	
220380	A 3	PROGRESSIVE RURAL TEL. COOP INC.	\$848,142	3,474	\$244.14	\$0	0.000%	
220381	C 3	PUBLIC SERVICE TELEPHONE CO.	\$2,973,118	7,511	\$395.84	\$425,216	0.125%	
220382	A 3	RINGGOLD TEL. COMPANY	\$1,879,634	7,699	\$244.14	\$0	0.000%	
220386	C 3	STANDARD TEL. CO.	\$12,227,570	33,139	\$368.98	\$1,458,737	0.430%	
220387	A 3	STATESBORO TEL. CO.	\$3,137,199	12,850	\$244.14	\$0	0.000%	
220389	A 3	TRENTON TELEPHONE COMPANY	\$1,072,507	4,393	\$244.14	\$0	0.000%	
220392	C 3	WAVERLY HALL TEL. CO., INC.	\$261,379	930	\$281.05	\$6,312	0.002%	
220394	C 3	WILKES TEL & ELECTRIC CO.	\$1,570,014	8,727	\$179.90	\$0	0.000%	
220395	A 3	WILKINSON COUNTY TEL. CO. INC.	\$824,461	3,377	\$244.14	\$0	0.000%	
220479	C 2	GTE SOUTH INC. - GEORGIA	\$75,945,246	191,453	\$396.68	\$10,914,018	3.218%	
225192	C 1	SOUTHERN BELL-GEORGIA	\$758,461,479	2,559,501	\$296.33	\$5,119,002	1.509%	
STATE TOTAL:			HAWAII	\$90,686,642	544,748	\$166.47	\$0	0.000%
623100	C 2	GTE HAWAIIAN TEL. CO. INC.	\$90,686,642	544,748	\$166.47	\$0	0.000%	
STATE TOTAL:			IDAHO	\$122,068,724	444,818	\$274.42	\$7,181,442	2.117%
472177	C 2	CONTEL OF THE WEST - IDAHO	\$6,088,274	12,414	\$490.44	\$1,253,271	0.369%	
472213	C 3	ALBION TEL. CO. INC.	\$554,064	896	\$618.37	\$144,189	0.043%	
472215	C 3	CAMBRIDGE TEL. CO., INC. - ID	\$446,099	815	\$547.36	\$104,025	0.031%	
472218	C 3	CUSTER TEL. COOPERATIVE INC.	\$421,521	1,403	\$300.44	\$20,580	0.006%	
472220	A 3	FILER MUTUAL TELEPHONE COMPANY - ID	\$391,845	1,605	\$244.14	\$0	0.000%	
472221	A 3	FARMERS MUTUAL TEL CO LTD. - ID	\$435,546	1,784	\$244.14	\$0	0.000%	
472223	C 2	GEM STATE UTILITIES CORP-ID	\$797,239	869	\$917.42	\$261,656	0.077%	
472225	C 2	CENTURY TELEPHONE OF IDAHO	\$1,272,896	2,407	\$528.83	\$286,313	0.084%	
472226	C 3	MIDVALE TEL. EXCH. INC.	\$202,087	253	\$798.76	\$62,107	0.018%	

TABLE 3.4

PAGE 5

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
IDAHO (CONT.)							
472227	A 3	MUD LAKE TEL. COOP. INC. ASSOC.	\$343,465	1,098	\$312.81	\$21,624	0.006%
472230	A 3	POTLATCH TELEPHONE COMPANY INC.	\$171,958	619	\$277.80	\$3,385	0.001%
472231	C 3	PROJECT MUTUAL TEL. COOP. ASSN.	\$1,164,776	6,089	\$191.29	\$0	0.000%
472232	C 3	ROCKLAND TEL. CO., INC.	\$300,926	328	\$917.46	\$98,767	0.029%
472233	C 3	RURAL TELEPHONE COMPANY - ID	\$199,811	277	\$721.34	\$57,945	0.017%
472234	C 2	TROY TELEPHONE COMPANY	\$222,620	633	\$351.69	\$22,737	0.007%
472295	C 3	SILVER STAR TEL. CO. INC.-ID	\$211,988	310	\$683.83	\$59,398	0.018%
472416	C 2	GTE NORTHWEST INC. - IDAHO	\$28,398,968	66,638	\$426.17	\$4,720,053	1.392%
472423	C 3	INLAND TELEPHONE COMPANY - ID	\$208,542	251	\$830.85	\$65,392	0.019%
475103	C 1	MOUNTAIN BELL-IDAHO	\$75,262,169	323,016	\$233.00	\$0	0.000%
475162	C 1	PACIFIC NORTHWEST BELL-IDAHO	\$4,973,930	23,113	\$215.20	\$0	0.000%
STATE TOTAL:			\$960,341,850	6,064,742	\$158.35	\$1,038,121	0.306%
ILLINOIS							
340976	A 3	ADAMS TELEPHONE COOPERATIVE	\$1,111,535	3,989	\$278.65	\$23,186	0.007%
340978	A 3	ALHAMBRA-GRANTFORK TELEPHONE COMPANY	\$228,271	935	\$244.14	\$0	0.000%
340983	A 3	CAMBRIDGE TELEPHONE COMPANY - IL	\$386,474	1,583	\$244.14	\$0	0.000%
340984	A 3	CASS COUNTY TELEPHONE COMPANY	\$699,217	2,864	\$244.14	\$0	0.000%
340985	C 2	CENTRAL TEL. CO. OF IL	\$28,259,089	169,498	\$166.72	\$0	0.000%
340990	A 3	CLARKSVILLE MUTUAL TELEPHONE COMPANY	\$54,504	155	\$351.64	\$5,564	0.002%
340993	A 3	CROSSVILLE TELEPHONE COMPANY	\$163,086	668	\$244.14	\$0	0.000%
340998	A 3	DEPUÉ TELEPHONE COMPANY	\$187,744	769	\$244.14	\$0	0.000%
341000	C 2	ALLTEL ILLINOIS INC.	\$6,841,377	39,144	\$174.77	\$0	0.000%
341003	A 3	EGYPTIAN TELEPHONE COOPERATIVE ASSN.	\$668,198	2,546	\$262.45	\$0	0.000%
341004	C 3	EL PASO TELEPHONE COMPANY	\$357,967	1,505	\$237.85	\$0	0.000%
341009	A 3	C-R TELEPHONE COMPANY	\$214,264	870	\$246.28	\$0	0.000%
341011	C 3	LAKESIDE TEL. CO.	\$196,566	761	\$258.30	\$0	0.000%
341012	A 3	FLAT ROCK MUTUAL TELEPHONE COMPANY	\$112,549	461	\$244.14	\$0	0.000%
341015	C 2	GTE NORTH INC. - ILLINOIS	\$113,443,172	542,576	\$209.08	\$0	0.000%
341016	A 3	GENESEO TELEPHONE COMPANY	\$1,516,354	6,211	\$244.14	\$0	0.000%
341017	A 3	GLASFORD TELEPHONE COMPANY	\$256,103	1,049	\$244.14	\$0	0.000%
341020	A 3	GRAFTON TELEPHONE COMPANY	\$177,734	728	\$244.14	\$0	0.000%
341021	A 3	THE GRANDVIEW MUTUAL TELEPHONE COMPAN	\$40,814	101	\$404.10	\$6,109	0.002%
341023	C 3	GRIDLEY TELEPHONE COMPANY	\$207,620	1,077	\$192.78	\$0	0.000%
341024	A 3	HAMILTON COUNTY TELEPHONE COOP.	\$615,014	2,240	\$274.56	\$9,296	0.003%
341025	A 3	SHAWNEE TELEPHONE COMPANY	\$908,748	3,571	\$254.48	\$0	0.000%
341026	A 3	HARRISONVILLE TELEPHONE COMPANY	\$3,369,620	13,802	\$244.14	\$0	0.000%
341029	A 3	HENRY COUNTY TEL. CO.	\$345,702	1,416	\$244.14	\$0	0.000%
341032	A 3	HOME TELEPHONE COMPANY - ST JACOB	\$183,349	751	\$244.14	\$0	0.000%
341036	C 2	CONTEL OF ILLINOIS, INC.	\$43,166,766	156,767	\$275.36	\$701,532	0.207%
341037	C 2	ILLINOIS CONSOLIDATED TELEPHONE COMPA	\$19,289,255	71,662	\$269.17	\$140,637	0.041%
341038	C 3	INLAND TEL. CO.	\$1,074,215	4,085	\$262.97	\$0	0.000%
341041	A 3	KINSMAN MUTUAL TELEPHONE COMPANY	\$33,195	75	\$442.60	\$5,890	0.002%
341043	A 3	LA HARPE TELEPHONE COMPANY	\$264,159	1,082	\$244.14	\$0	0.000%
341045	C 3	LEAF RIVER VALLEY TELEPHONE COMPANY	\$224,189	542	\$413.63	\$35,203	0.010%
341046	A 3	LEONORE MUTUAL TELEPHONE COMPANY	\$50,943	140	\$363.88	\$5,828	0.002%
341047	A 3	MCDONOUGH TELEPHONE COOPERATIVE INC.	\$1,142,257	4,345	\$262.89	\$0	0.000%
341048	A 3	MENABB TELEPHONE COMPANY	\$101,354	399	\$254.02	\$0	0.000%
341049	A 3	MADISON TELEPHONE COMPANY	\$309,700	1,232	\$251.38	\$0	0.000%
341050	A 3	MARSEILLES TEL. CO. OF MARS.	\$746,092	3,056	\$244.14	\$0	0.000%
341053	A 3	METAMORA TELEPHONE COMPANY	\$642,088	2,630	\$244.14	\$0	0.000%
341054	A 3	MID CENTURY TEL. COOP. INC.	\$1,133,444	4,111	\$275.71	\$18,988	0.006%
341055	C 3	MIDLAND TELEPHONE COMPANY	\$1,231,545	3,944	\$312.26	\$76,785	0.023%
341058	A 3	MONTROSE MUTUAL TELEPHONE COMPANY	\$359,750	1,327	\$271.10	\$3,641	0.001%
341060	C 3	MOULTRIE INDEPENDENT TELEPHONE COMPAN	\$117,628	660	\$178.22	\$0	0.000%
341061	A 3	MT. PULASKI TELEPHONE & ELECTRIC CO.	\$436,522	1,788	\$244.14	\$0	0.000%
341062	A 3	NEW WINDSOR TELEPHONE COMPANY	\$138,183	566	\$244.14	\$0	0.000%
341065	A 3	ODIN TELEPHONE EXCHANGE INC.	\$268,554	1,100	\$244.14	\$0	0.000%
341066	A 3	ONEIDA TELEPHONE EXCHANGE	\$121,338	497	\$244.14	\$0	0.000%
341067	A 3	ORION TELEPHONE EXCHANGE ASSOCIATION	\$403,319	1,652	\$244.14	\$0	0.000%

TABLE 3.4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL	
ILLINOIS (CONT.)								
341073	C 3	PRAIRIE TEL. CO.	\$224,365	919	\$244.14	\$0	0.000%	
341075	A 3	REYNOLDS TELEPHONE COMPANY	\$126,709	519	\$244.14	\$0	0.000%	
341079	A 3	SCHUYLER TELEPHONE COMPANY - IL	\$646,727	2,649	\$244.14	\$0	0.000%	
341086	A 3	TONICA TELEPHONE COMPANY	\$114,990	471	\$244.14	\$0	0.000%	
341087	A 3	VIOLA HOME TELEPHONE COMPANY	\$171,142	701	\$244.14	\$0	0.000%	
341088	A 3	WABASH TELEPHONE COOPERATIVE INC.	\$1,098,874	4,501	\$244.14	\$0	0.000%	
341091	A 3	WOODHULL COMMUNITY TELEPHONE COMPANY	\$155,761	638	\$244.14	\$0	0.000%	
341092	A 3	STELLE TEL. CO.	\$26,781	55	\$486.93	\$5,462	0.002%	
341093	A 3	YATES CITY TELEPHONE COMPANY	\$122,558	502	\$244.14	\$0	0.000%	
345070	C 1	ILLINOIS BELL TEL CO	\$725,854,376	4,992,857	\$145.38	\$0	0.000%	
STATE TOTAL:			INDIANA	\$546,866,130	2,500,844	\$218.67	\$1,784,424	0.526%
320742	A 3	BLOOMINGDALE HOME TEL. CO. INC.	\$138,672	568	\$244.14	\$0	0.000%	
320744	A 3	CAMDEN TELEPHONE CO INC - INDIANA	\$364,989	1,495	\$244.14	\$0	0.000%	
320747	A 2	CENTRAL INDIANA TELEPHONE CO. INC.	\$576,170	2,360	\$244.14	\$0	0.000%	
320750	A 3	CITIZEN'S TEL CO, INC. FAIRMOUNT, IN	\$523,192	2,143	\$244.14	\$0	0.000%	
320751	A 3	CITIZENS TELEPHONE CORP - WARREN	\$358,398	1,468	\$244.14	\$0	0.000%	
320753	C 3	CLAY CTY RURAL TEL. COOP. INC.	\$1,435,307	7,887	\$181.98	\$0	0.000%	
320756	A 3	CRAIGVILLE TELEPHONE CO INC.	\$144,775	593	\$244.14	\$0	0.000%	
320759	A 3	DAVISS-MARTIN CTY RURAL TEL CORP	\$564,452	2,312	\$244.14	\$0	0.000%	
320762	C 2	ELNORA TELEPHONE COMPANY INC.	\$104,561	419	\$249.55	\$0	0.000%	
320771	A 3	GEETINGSVILLE TELEPHONE CO INC.	\$104,723	420	\$249.34	\$0	0.000%	
320772	C 2	GTE NORTH INC. - INDIANA	\$126,239,334	545,380	\$231.47	\$0	0.000%	
320775	A 3	HANCOCK RURAL TELEPHONE CORP.	\$1,147,946	4,702	\$244.14	\$0	0.000%	
320776	A 2	COMMUNICATIONS CORP OF INDIANA	\$1,959,740	7,313	\$267.98	\$10,832	0.003%	
320777	A 2	HOME TELEPHONE COMPANY OF PITTSBORO I	\$358,153	1,467	\$244.14	\$0	0.000%	
320778	C 2	HOME TELEPHONE COMPANY INC.	\$453,612	1,858	\$244.14	\$0	0.000%	
320779	C 2	CONTEL OF INDIANA, INC.	\$38,597,007	133,555	\$289.00	\$1,338,054	0.394%	
320783	A 3	LIGONIER TELEPHONE COMPANY	\$495,604	2,030	\$244.14	\$0	0.000%	
320784	A 3	LIBERTY CENTER TELEPHONE COMPANY	\$135,742	556	\$244.14	\$0	0.000%	
320788	A 3	MERCHANTS & FARMERS TELEPHONE CO	\$129,638	531	\$244.14	\$0	0.000%	
320790	A 3	MONON TELEPHONE CO. INC.	\$333,739	1,367	\$244.14	\$0	0.000%	
320792	A 3	MULBERRY COOP. TELEPHONE CO INC.	\$445,556	1,825	\$244.14	\$0	0.000%	
320796	A 3	NEW LISBON TELEPHONE COMPANY INC.	\$185,791	761	\$244.14	\$0	0.000%	
320797	C 3	NEW PARIS TELEPHONE INC.	\$343,077	1,506	\$227.81	\$0	0.000%	
320800	C 3	NORTHWESTERN INDIANA TEL. CO. INC.	\$1,849,235	7,700	\$240.16	\$0	0.000%	
320801	A 3	ODON TEL. CO.	\$351,317	1,439	\$244.14	\$0	0.000%	
320807	A 3	PERRY-SPENCER RURAL TEL. COOP. INC.	\$950,193	3,892	\$244.14	\$0	0.000%	
320809	A 2	POSEYVILLE TELEPHONE CO INC.	\$192,871	790	\$244.14	\$0	0.000%	
320813	A 3	PULASKI-WHITE RURAL TEL. COOP. INC.	\$384,521	1,575	\$244.14	\$0	0.000%	
320815	A 3	ROCHESTER TELEPHONE CO. INC.	\$1,267,331	5,191	\$244.14	\$0	0.000%	
320816	A 3	S & W TEL. CO., INC.	\$110,840	454	\$244.14	\$0	0.000%	
320818	A 3	SMITHVILLE TEL. CO., INC.	\$5,131,579	21,019	\$244.14	\$0	0.000%	
320819	A 3	SOUTHEASTERN IND. RURAL TEL. COOP INC	\$745,115	3,052	\$244.14	\$0	0.000%	
320825	A 3	SUNMAN TEL. CO. INC.	\$772,459	3,164	\$244.14	\$0	0.000%	
320826	A 3	SWAYZEE TEL. CO. INC.	\$230,712	945	\$244.14	\$0	0.000%	
320827	A 3	SWEETSER RURAL TEL. CO. INC.	\$330,566	1,354	\$244.14	\$0	0.000%	
320828	A 3	THORNTOWN TELEPHONE CO. INC.	\$489,745	2,006	\$244.14	\$0	0.000%	
320829	A 3	TIPTON TELEPHONE COMPANY INC.	\$978,513	4,008	\$244.14	\$0	0.000%	
320830	A 3	TRI-COUNTY TEL. CO. INC.-IN	\$624,754	2,559	\$244.14	\$0	0.000%	
320831	A 2	ALLTEL INDIANA INC.	\$2,043,452	8,370	\$244.14	\$0	0.000%	
320832	C 2	UNITED TELEPHONE CO. OF INDIANA INC.	\$47,125,356	174,215	\$270.50	\$435,538	0.128%	
320833	A 2	WADESVILLE TELEPHONE COMPANY INC.	\$112,793	462	\$244.14	\$0	0.000%	
320834	A 3	WASH. CTY. RURAL TEL. COOP. INC.	\$535,643	2,194	\$244.14	\$0	0.000%	
320837	A 3	WEST POINT TELEPHONE CO. INC.	\$143,310	587	\$244.14	\$0	0.000%	
320839	A 3	YEOMAN TELEPHONE COMPANY INC.	\$262,695	1,076	\$244.14	\$0	0.000%	
325080	C 1	INDIANA BELL TEL CO	\$307,092,952	1,532,276	\$200.42	\$0	0.000%	

TABLE 3.4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
STATE TOTAL:		IOWA	\$257,724,567	1,273,677	\$202.35	\$1,093,267	0.322%
351096	A 3	AMANA SOCIETY SERVICE CO.	\$246,826	1,011	\$244.14	\$0	0.000%
351097	A 3	ANDREW TELEPHONE CO. INC.	\$86,025	310	\$277.50	\$1,657	0.000%
351098	A 3	ARCADIA TELEPHONE COOP	\$87,184	316	\$275.90	\$1,483	0.000%
351101	A 3	ATKINS TELEPHONE COMPANY	\$134,277	550	\$244.14	\$0	0.000%
351105	C 3	AYRSHIRE FMRS. MUT. TEL. CO.	\$89,150	388	\$229.77	\$0	0.000%
351107	A 3	BALDWIN-NASHVILLE TELEPHONE CO. INC.	\$84,061	299	\$281.14	\$2,041	0.001%
351108	A 3	BARNES CITY COOP TELEPHONE CO.	\$58,626	173	\$338.88	\$5,239	0.002%
351110	C 3	BERNARD TELEPHONE COMPANY INC.	\$182,602	454	\$402.21	\$27,058	0.008%
351112	A 3	BREDA TELEPHONE COOPERATIVE	\$273,979	1,019	\$268.87	\$1,872	0.001%
351113	A 3	BROOKLYN MUTUAL TELEPHONE COMPANY	\$282,958	1,159	\$244.14	\$0	0.000%
351114	A 3	THE BURT TELEPHONE COMPANY	\$107,739	439	\$245.42	\$0	0.000%
351115	A 3	BUTLER-BREMER MUT. TELEPHONE COMPANY	\$462,157	1,893	\$244.14	\$0	0.000%
351118	A 3	CASCADE TELEPHONE COMPANY	\$342,528	1,403	\$244.14	\$0	0.000%
351119	A 3	CASEY MUTUAL TELEPHONE CO.	\$108,758	445	\$244.40	\$0	0.000%
351121	A 3	CENTER JUNCTION TEL. CO., INC.	\$51,122	141	\$362.57	\$5,784	0.002%
351125	A 3	CENTRAL SCOTT TELEPHONE	\$936,033	3,834	\$244.14	\$0	0.000%
351126	A 2	CHESTER TELEPHONE COMPANY- IOWA	\$64,365	199	\$323.44	\$4,778	0.001%
351129	A 3	THE CITIZENS MUTUAL TELEPHONE COMPANY	\$815,428	3,340	\$244.14	\$0	0.000%
351130	A 3	CLARENCE TELEPHONE COMPANY INC.	\$187,255	767	\$244.14	\$0	0.000%
351132	A 3	CLEAR LAKE INDP TELEPHONE CO	\$1,422,848	5,828	\$244.14	\$0	0.000%
351133	A 3	C-M-L TEL COOP ASSN	\$251,821	770	\$327.04	\$19,616	0.006%
351134	A 3	COLO TELEPHONE COMPANY	\$138,427	567	\$244.14	\$0	0.000%
351136	A 3	COON CREEK TELEPHONE COMPANY	\$134,033	549	\$244.14	\$0	0.000%
351137	A 3	COON VALLEY COOP TEL. ASSN. INC.	\$176,475	644	\$274.03	\$2,536	0.001%
351139	A 3	COOPERATIVE TELEPHONE COMPANY	\$360,515	1,331	\$270.86	\$3,527	0.001%
351141	A 3	CORN BELT TELEPHONE COMPANY	\$177,246	726	\$244.14	\$0	0.000%
351146	A 3	CUMBERLAND TEL. CO.	\$103,974	415	\$250.54	\$0	0.000%
351147	A 3	DANVILLE MUT. TELEPHONE COMPANY	\$202,636	830	\$244.14	\$0	0.000%
351148	A 3	DEEP RIVER MUT. TELEPHONE COMPANY	\$84,956	304	\$279.46	\$1,868	0.001%
351149	A 3	DEFIANCE TELEPHONE COMPANY	\$75,417	253	\$298.09	\$3,469	0.001%
351150	A 3	DIXON TELEPHONE COMPANY	\$136,963	561	\$244.14	\$0	0.000%
351152	A 3	DUMONT TELEPHONE COMPANY	\$135,742	556	\$244.14	\$0	0.000%
351153	A 3	DUNKERTON TELEPHONE COOP., INC.	\$146,240	599	\$244.14	\$0	0.000%
351156	A 3	EAST BUCHANAN TELEPHONE COOP	\$336,181	1,377	\$244.14	\$0	0.000%
351157	A 3	ELLSWORTH COOP TELEPHONE ASSN.	\$169,199	604	\$280.13	\$3,873	0.001%
351160	A 3	FARMERS & BUSINESSMEN'S TEL. CO.	\$245,849	1,007	\$244.14	\$0	0.000%
351162	A 3	FARMERS COOP TELEPHONE CO - DYSART	\$289,794	1,187	\$244.14	\$0	0.000%
351166	A 3	FARMERS & MERCHANTS MUTUAL TEL. CO.	\$170,166	697	\$244.14	\$0	0.000%
351168	A 3	FARMERS MUTUAL COOP TEL CO- HARLAN	\$522,415	1,744	\$299.55	\$24,950	0.007%
351169	A 3	FARMERS MUTUAL COOP TEL CO- MOULTON	\$134,765	552	\$244.14	\$0	0.000%
351171	A 3	FARMERS MUTUAL TEL CO- JESUP	\$421,386	1,726	\$244.14	\$0	0.000%
351172	A 3	FARMERS MUTUAL TEL CO - NORA SPRINGS	\$556,151	2,278	\$244.14	\$0	0.000%
351173	A 3	FARMERS MUTUAL TEL CO - SHELLSBURG	\$386,718	1,584	\$244.14	\$0	0.000%
351174	A 3	FARMERS MUTUAL TEL CO - STANTON	\$284,327	1,079	\$263.51	\$0	0.000%
351175	A 3	FARMERS TELEPHONE COMPANY- BATAVIA	\$98,241	380	\$258.53	\$0	0.000%
351176	A 3	FARMERS TELEPHONE COMPANY- ESSEX	\$166,503	682	\$244.14	\$0	0.000%
351177	A 3	FARMERS TEL. CO.-RICEVILLE	\$415,076	1,656	\$250.65	\$0	0.000%
351179	A 3	FENTON CO-OP TELEPHONE COMPANY	\$96,664	371	\$260.55	\$0	0.000%
351186	C 2	GTE NORTH INC. - IOWA	\$25,291,416	103,503	\$244.35	\$0	0.000%
351187	A 3	MID-IOWA TELEPHONE CO.	\$263,671	1,080	\$244.14	\$0	0.000%
351188	A 3	GOLDFIELD TEL. CO.	\$142,578	584	\$244.14	\$0	0.000%
351189	A 3	RIVER VALLEY TEL. COOP.	\$221,923	909	\$244.14	\$0	0.000%
351191	A 3	GRAND MOUND COOP TELEPHONE ASSN.	\$132,568	543	\$244.14	\$0	0.000%
351195	A 3	GRISWOLD CO-OP TELEPHONE COMPANY	\$482,665	1,977	\$244.14	\$0	0.000%
351199	A 3	HAWKEYE TELEPHONE COMPANY	\$112,549	461	\$244.14	\$0	0.000%
351202	A 3	HOSPERS TELEPHONE EXCHANGE INC.	\$152,343	624	\$244.14	\$0	0.000%
351203	A 3	HUBBARD COOP TEL. ASSN.	\$187,988	770	\$244.14	\$0	0.000%
351205	A 3	HUXLEY COOP TELEPHONE COMPANY	\$336,913	1,380	\$244.14	\$0	0.000%
351206	A 3	IAMO TELEPHONE COMPANY- IA	\$137,098	438	\$313.01	\$8,661	0.003%
351207	C 2	CONTEL OF IOWA, INC.	\$20,154,830	70,359	\$286.46	\$632,352	0.186%

TABLE 3.4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
IOWA (CONT.)							
351209	A 3	INTERSTATE 35 TELEPHONE COMPANY	\$261,811	950	\$275.59	\$4,340	0.001%
351212	A 3	JEFFERSON TELEPHONE COMPANY- IA	\$734,373	3,008	\$244.14	\$0	0.000%
351213	A 3	JORDAN SOLDIER VAL COOP TEL. CO.	\$77,887	266	\$292.81	\$3,077	0.001%
351214	A 3	KALONA COOP TELEPHONE COMPANY	\$377,929	1,548	\$244.14	\$0	0.000%
351217	A 3	KEYSTONE FRMS. COOP TELEPHONE CO	\$261,811	950	\$275.59	\$4,340	0.001%
351220	A 3	LA PORTE CITY TELEPHONE COMPANY	\$423,095	1,733	\$244.14	\$0	0.000%
351222	A 3	LA MOTTE TELEPHONE CO.	\$130,127	533	\$244.14	\$0	0.000%
351223	A 3	LAUREL TELEPHONE COMPANY INC.	\$83,340	295	\$282.51	\$2,177	0.001%
351225	A 3	LEHIGH VALLEY COOP TEL. ASSN.	\$434,076	1,775	\$244.55	\$0	0.000%
351228	A 3	LONE ROCK CO-OP TELEPHONE CO	\$82,615	291	\$283.90	\$2,312	0.001%
351229	C 3	LOST NATION - ELWOOD TEL. CO.	\$175,472	594	\$295.41	\$7,499	0.002%
351230	A 3	NORTHEAST IOWA TELEPHONE CO.	\$420,653	1,723	\$244.14	\$0	0.000%
351232	A 3	LYNNVILLE COMM. TEL. CO. INC.	\$88,063	321	\$274.34	\$1,304	0.000%
351235	A 3	MANILLA TELEPHONE COMPANY	\$141,601	580	\$244.14	\$0	0.000%
351237	A 3	MARNE & ELK HORN TELEPHONE CO	\$361,892	1,339	\$270.27	\$3,222	0.001%
351238	A 3	MARTELLE COOP TELEPHONE ASSN	\$84,779	303	\$279.80	\$1,903	0.001%
351239	A 3	MASSENA TELEPHONE COMPANY	\$176,653	645	\$273.88	\$2,499	0.001%
351241	A 3	MECHANICSVILLE TEL. CO.	\$185,546	760	\$244.14	\$0	0.000%
351242	A 3	MILES COOP TEL. ASSN.	\$168,945	692	\$244.14	\$0	0.000%
351243	A 3	MILLER TELEPHONE COMPANY-IA	\$41,073	102	\$402.68	\$6,102	0.002%
351245	A 3	MINBURN TELEPHONE COMPANY	\$106,959	434	\$246.45	\$0	0.000%
351246	A 3	MINERVA VALLEY TELEPHONE CO. INC.	\$192,497	737	\$261.19	\$0	0.000%
351247	A 3	MODERN COOP TELEPHONE COMPANY	\$274,111	875	\$313.27	\$17,391	0.005%
351248	A 3	MONTEZUMA MUTUAL TELEPHONE COMPANY	\$397,460	1,628	\$244.14	\$0	0.000%
351249	A 3	MORLEY TEL. CO	\$54,081	153	\$353.47	\$5,623	0.002%
351250	A 3	MUTUAL TEL. CO. OF MORNING SUN	\$144,043	590	\$244.14	\$0	0.000%
351251	A 3	MEDIAPOLIS TELEPHONE COMPANY	\$396,483	1,624	\$244.14	\$0	0.000%
351252	A 3	MUTUAL TEL. CO.	\$760,496	3,115	\$244.14	\$0	0.000%
351257	A 3	NORTH ENGLISH COOP TEL. COMPANY	\$180,175	738	\$244.14	\$0	0.000%
351259	A 3	NORTHERN IOWA TELEPHONE COMPANY	\$645,990	2,416	\$267.38	\$2,990	0.001%
351260	A 3	NORTHWEST IOWA TEL CO INC	\$610,838	2,502	\$244.14	\$0	0.000%
351261	A 3	NORTHWEST TEL. COOP.	\$334,440	1,186	\$281.99	\$8,502	0.003%
351262	A 3	NORWAY RURAL TELEPHONE COMPANY	\$155,761	638	\$244.14	\$0	0.000%
351263	A 3	OGDEN TELEPHONE COMPANY - IA	\$386,229	1,582	\$244.14	\$0	0.000%
351264	A 3	OLIN TELEPHONE CO INC.	\$139,648	572	\$244.14	\$0	0.000%
351265	A 3	ONSLow COOP TELEPHONE ASSN.	\$64,782	201	\$322.30	\$4,732	0.001%
351266	A 3	ORAN MUTUAL TELEPHONE COMPANY	\$71,412	233	\$306.49	\$3,990	0.001%
351269	A 3	PALO COOP TEL. ASSN.	\$91,862	343	\$267.82	\$484	0.000%
351270	A 3	PALMER MUTUAL TELEPHONE CO.	\$88,588	324	\$273.42	\$1,195	0.000%
351271	A 3	PANORA COOP TEL. ASSN. INC.	\$318,847	1,306	\$244.14	\$0	0.000%
351273	A 3	PEOPLES TELEPHONE COMPANY - IA	\$199,951	819	\$244.14	\$0	0.000%
351274	A 3	POSTVILLE TELEPHONE COMPANY	\$331,298	1,357	\$244.14	\$0	0.000%
351275	A 3	PRAIRIEBURG TELEPHONE COMPANY INC.	\$63,092	193	\$326.90	\$4,905	0.001%
351276	A 3	PRESTON TELEPHONE COMPANY	\$278,808	1,142	\$244.14	\$0	0.000%
351277	A 3	RADCLIFFE TELEPHONE CO INC.	\$118,164	484	\$244.14	\$0	0.000%
351278	A 3	READLYN TELEPHONE COMPANY	\$165,527	678	\$244.14	\$0	0.000%
351280	A 3	RINGSTED TELEPHONE COMPANY	\$112,549	461	\$244.14	\$0	0.000%
351282	A 3	ROCKWELL COOP TELEPHONE ASSN.	\$345,011	1,244	\$277.34	\$6,570	0.002%
351283	A 3	ROYAL TEL. CO.	\$96,995	373	\$260.04	\$0	0.000%
351284	A 3	RUTHVEN TEL. EXCH. CO.	\$163,330	669	\$244.14	\$0	0.000%
351285	A 3	SAC COUNTY MUTUAL TEL. CO.	\$262,695	1,076	\$244.14	\$0	0.000%
351291	A 3	SCHALLER TEL. CO.	\$416,282	1,663	\$250.32	\$0	0.000%
351292	A 3	SEARSBORO TEL. CO.	\$108,039	306	\$353.07	\$11,188	0.003%
351293	A 3	SHARON TEL. CO.	\$225,830	925	\$244.14	\$0	0.000%
351294	A 3	SCRANTON TEL. CO.	\$125,000	512	\$244.14	\$0	0.000%
351295	A 3	SHELL ROCK TEL. CO.	\$222,656	912	\$244.14	\$0	0.000%
351297	A 3	HEART OF IOWA TELEPHONE COOP	\$565,914	1,971	\$287.12	\$18,244	0.005%
351298	A 3	SOUTH SLOPE COOP TEL. CO.	\$1,270,749	5,205	\$244.14	\$0	0.000%
351301	A 3	SOUTHWEST TEL. EXCH., INC.	\$210,854	682	\$309.17	\$12,421	0.004%
351302	A 3	SPRINGVILLE COOP TEL. ASSN.	\$263,427	1,079	\$244.14	\$0	0.000%

TABLE 3.4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL	
IOWA (CONT.)								
351303	A 3	COOPERATIVE TELEPHONE EXCHANGE	\$174,976	636	\$275.12	\$2,786	0.001%	
351304	A 3	SWISHER TEL. CO.	\$139,404	571	\$244.14	\$0	0.000%	
351305	A 3	STRATFORD MUTUAL TEL. CO.	\$145,019	594	\$244.14	\$0	0.000%	
351306	A 3	SULLY TEL. ASSOC.	\$238,525	977	\$244.14	\$0	0.000%	
351307	A 3	SUPERIOR TEL. COOP.	\$57,510	168	\$342.32	\$5,322	0.002%	
351308	A 3	TEMPLETON TELEPHONE COMPANY	\$93,488	352	\$265.59	\$178	0.000%	
351309	A 3	TERRIL TELEPHONE COMPANY	\$95,166	362	\$262.89	\$0	0.000%	
351310	A 3	TITONKA TELEPHONE COMPANY	\$141,113	578	\$244.14	\$0	0.000%	
351316	C 3	UNITED FARMERS TELEPHONE COMPANY	\$168,849	528	\$319.79	\$11,893	0.004%	
351317	C 2	UTC OF IOWA	\$13,216,417	61,775	\$213.94	\$0	0.000%	
351319	A 3	VAN BUREN TELEPHONE CO INC.	\$630,609	2,328	\$270.88	\$6,184	0.002%	
351320	A 3	VAN HORNE COOP TELEPHONE CO.	\$120,117	492	\$244.14	\$0	0.000%	
351322	A 3	VENTURA TELEPHONE CO. INC.	\$121,582	498	\$244.14	\$0	0.000%	
351324	A 3	VILLISCA FARMERS TELEPHONE CO.	\$285,644	1,170	\$244.14	\$0	0.000%	
351326	A 3	WALNUT TELEPHONE COMPANY	\$186,523	764	\$244.14	\$0	0.000%	
351327	C 3	WEBB-DICKENS TELEPHONE CORPORATION	\$141,651	452	\$313.39	\$9,006	0.003%	
351328	A 3	WEBSTER-CALHOUN COOP TELEPHONE ASSN.	\$1,298,900	4,534	\$286.48	\$40,778	0.012%	
351329	A 3	WELLMAN COOP TELEPHONE ASSN.	\$275,390	1,128	\$244.14	\$0	0.000%	
351331	A 3	WEST IOWA TELEPHONE COMPANY	\$1,124,021	4,604	\$244.14	\$0	0.000%	
351332	A 3	WEST LIBERTY TELEPHONE COMPANY	\$698,973	2,863	\$244.14	\$0	0.000%	
351334	A 3	WESTERN IOWA TELEPHONE ASSN.	\$768,434	2,938	\$261.55	\$0	0.000%	
351335	A 3	WESTSIDE INDP. TELEPHONE COMPANY	\$91,521	341	\$268.39	\$561	0.000%	
351336	A 3	WILTON TELEPHONE COMPANY	\$414,794	1,699	\$244.14	\$0	0.000%	
351337	A 3	WINNEBAGO COOP TELEPHONE ASSN - IA	\$1,484,878	5,771	\$257.30	\$0	0.000%	
351341	A 3	SCHUYLER TELEPHONE COMPANY - IA	\$217,773	892	\$244.14	\$0	0.000%	
351342	A 3	WOOLSTOCK MUT. TELEPHONE ASSN.	\$77,322	263	\$294.00	\$3,169	0.001%	
351343	A 3	WYOMING MUTUAL TELEPHONE COMPANY	\$157,470	645	\$244.14	\$0	0.000%	
351344	A 3	PRAIRIE TELEPHONE COMPANY INC.	\$266,983	979	\$272.71	\$3,329	0.001%	
351346	C 3	ACE TELEPHONE ASSOCIATION- IOWA	\$860,948	3,662	\$235.10	\$0	0.000%	
351405	A 3	HILLS TEL. CO., INC. - IA	\$480,330	1,664	\$288.66	\$16,442	0.005%	
351424	A 3	MABEL COOPERATIVE TELEPHONE CO. IA	\$243,534	850	\$286.51	\$7,655	0.002%	
351888	C 3	GRAND RIVER MUTUAL TEL CORP - IA	\$1,604,631	5,156	\$311.22	\$98,190	0.029%	
355141	C 1	NORTHWESTERN BELL-IOWA	\$155,971,115	870,462	\$179.18	\$0	0.000%	
STATE TOTAL:			KANSAS	\$316,418,994	1,207,249	\$262.10	\$6,061,884	1.787%
411741	C 3	ASSARIA TELEPHONE EXCHANGE INC.	\$139,458	444	\$314.09	\$8,974	0.003%	
411746	C 3	BLUE VALLEY TELEPHONE COMPANY	\$796,088	2,718	\$292.89	\$31,529	0.009%	
411756	A 3	COLUMBUS TELEPHONE COMPANY	\$455,565	1,866	\$244.14	\$0	0.000%	
411758	A 3	COUNCIL GROVE TEL. CO.	\$414,061	1,696	\$244.14	\$0	0.000%	
411761	C 3	CUNNINGHAM TELEPHONE CO. INC.	\$580,376	1,538	\$377.36	\$73,747	0.022%	
411764	C 3	ELKHART TELEPHONE COMPANY INC.	\$326,685	1,409	\$231.86	\$0	0.000%	
411777	A 3	GOLDEN BELT TELEPHONE ASSN. INC.	\$1,131,795	3,560	\$317.92	\$77,497	0.023%	
411778	A 3	GORHAM TELEPHONE COMPANY INC.	\$106,924	301	\$355.23	\$11,310	0.003%	
411780	A 3	HAVILAND TELEPHONE COMPANY INC.	\$1,005,038	3,567	\$281.76	\$25,237	0.007%	
411781	C 3	H & B COMMUNICATIONS INC.	\$457,944	950	\$482.05	\$92,174	0.027%	
411782	C 3	HOME TELEPHONE COMPANY INC.	\$547,044	1,259	\$434.51	\$94,095	0.028%	
411785	C 2	J. B. N. TELEPHONE COMPANY INC.	\$692,729	2,296	\$301.71	\$34,856	0.010%	
411788	C 3	KANOKLA TEL. ASSOC. INC. - KS	\$733,197	2,212	\$331.46	\$60,318	0.018%	
411789	C 2	KANSAS STATE TEL. CO.	\$1,062,790	5,184	\$205.01	\$0	0.000%	
411790	C 2	CONTEL OF KANSAS	\$18,131,705	44,908	\$403.75	\$2,708,794	0.799%	
411791	A 3	LA HARPE TELEPHONE COMPANY INC.	\$95,808	366	\$261.77	\$0	0.000%	
411801	C 3	MADISON TEL. CO. INC. - KS	\$413,926	726	\$570.15	\$100,419	0.030%	
411807	C 3	NOKAN DIAL, INC. - KS	\$603,658	1,942	\$310.84	\$36,692	0.011%	
411808	C 3	MOUNDRIDGE TEL. CO.	\$858,253	2,112	\$406.37	\$129,994	0.038%	
411809	A 3	MUTUAL TELEPHONE COMPANY	\$107,901	440	\$245.23	\$0	0.000%	
411814	C 3	PEOPLES MUTUAL TEL. CO. - KS	\$353,185	999	\$353.54	\$36,744	0.011%	
411817	C 3	PIONEER TELEPHONE ASSOCIATION INC.	\$2,411,945	11,009	\$219.09	\$0	0.000%	
411818	C 3	CRAW-KAN TELEPHONE COOP INC- KS	\$3,128,805	11,385	\$274.82	\$48,457	0.014%	
411820	A 3	RAINBOW TEL COOPERATIVE ASSN INC.	\$555,943	1,788	\$310.93	\$33,838	0.010%	

TABLE 3.4

PAGE 10

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
KANSAS (CONT.)							
411826	C 3	RURAL TEL. SERVICE CO., INC.	\$3,123,222	6,545	\$477.19	\$620,098	0.183%
411827	C 3	S & T TEL. COOP. ASSN.	\$1,031,282	1,603	\$643.35	\$276,728	0.082%
411829	A 3	S & A TEL. CO., INC.	\$185,384	695	\$266.74	\$678	0.000%
411831	C 3	SOUTH CENTRAL TEL. ASSN. INC.-KS	\$398,551	1,058	\$376.70	\$50,400	0.015%
411833	A 3	SOUTHERN KANSAS TEL. CO., INC.	\$987,257	3,326	\$296.83	\$43,903	0.013%
411835	C 3	SUNFLOWER TEL. CO., INC.	\$1,684,613	3,806	\$442.62	\$298,914	0.088%
411839	A 3	TRI-COUNTY TEL. ASSN. INC.-KS	\$956,197	3,168	\$301.83	\$48,253	0.014%
411840	C 3	TWIN VALLEY TEL. INC.-KS	\$899,120	2,176	\$413.20	\$140,896	0.042%
411841	C 3	UNITED TELEPHONE ASSN. INC.	\$2,074,358	4,524	\$458.52	\$389,036	0.115%
411842	C 2	UNITED TELEPHONE CO OF KS	\$17,863,063	66,837	\$267.26	\$79,369	0.023%
411845	A 3	WAMEGO TELEPHONE COMPANY INC.	\$910,398	3,729	\$244.14	\$0	0.000%
411847	C 3	THE WHEAT STATE TEL. CO. INC.	\$950,481	1,947	\$488.18	\$194,493	0.057%
411849	C 3	WILSON TELEPHONE COMPANY INC.	\$817,637	2,192	\$373.01	\$100,640	0.030%
411852	C 3	ZENDA TELEPHONE COMPANY INC.	\$108,163	230	\$470.27	\$21,045	0.006%
412030	C 3	TOTAH TELEPHONE CO. INC.	\$767,704	1,296	\$592.36	\$192,756	0.057%
415214	C 1	SOUTHWESTERN BELL-KANSAS	\$248,550,741	999,442	\$248.69	\$0	0.000%
STATE TOTAL: KENTUCKY			\$423,294,811	1,512,476	\$279.87	\$4,738,159	1.397%
260396	A 3	BALLARD RURAL TEL. COOP. CORP. INC.	\$1,225,095	5,018	\$244.14	\$0	0.000%
260398	A 3	BRANDENBURG TELEPHONE COMPANY, INC.	\$4,317,128	17,683	\$244.14	\$0	0.000%
260401	A 3	DUO COUNTY TEL. COOP. INC.	\$2,014,887	8,253	\$244.14	\$0	0.000%
260402	A 2	ALLTEL KENTUCKY, INC.	\$3,710,440	15,198	\$244.14	\$0	0.000%
260406	A 3	FOOTHILLS RURAL TEL. COOP. CORP. INC.	\$2,549,554	10,443	\$244.14	\$0	0.000%
260407	C 2	GTE SOUTH INC. - KENTUCKY	\$97,585,292	299,861	\$325.44	\$1,145,094	0.338%
260408	A 3	HAROLD TELEPHONE CO INC.	\$1,088,132	4,457	\$244.14	\$0	0.000%
260410	C 2	CONTINENTAL TELEPHONE CO OF KENTUCKY	\$22,666,978	58,942	\$384.56	\$3,025,198	0.892%
260411	A 3	LESLIE COUNTY TEL. CO. INC.	\$1,482,906	6,074	\$244.14	\$0	0.000%
260412	A 3	LEWISPORT TEL. CO. INC.	\$243,408	997	\$244.14	\$0	0.000%
260413	A 3	LOGAN TELEPHONE COOPERATIVE, INC.	\$1,237,302	5,068	\$244.14	\$0	0.000%
260414	A 3	MOUNTAIN RURAL TEL. COOP. CORP. INC.	\$2,416,742	9,899	\$244.14	\$0	0.000%
260415	A 3	PEOPLES RURAL TEL. COOP. CORP.	\$1,278,317	5,236	\$244.14	\$0	0.000%
260417	A 3	SALEM TEL. CO.	\$402,343	1,648	\$244.14	\$0	0.000%
260418	A 3	SOUTH CENTRAL RURAL TEL. COOP. CORP. INC.	\$4,664,539	19,106	\$244.14	\$0	0.000%
260419	A 3	THACKER/GRIGSBY TEL. CO., INC.	\$1,411,129	5,780	\$244.14	\$0	0.000%
260421	A 3	WEST KY. RURAL TEL. COOP. CORP. INC.	\$3,287,345	13,465	\$244.14	\$0	0.000%
265061	C 2	CINCINNATI BELL-KENTUCKY	\$27,188,273	134,577	\$202.03	\$0	0.000%
265182	C 1	SOUTH CENTRAL BELL-KENTUCKY	\$244,525,001	890,771	\$274.51	\$567,867	0.167%
STATE TOTAL: LOUISIANA			\$589,475,222	1,870,917	\$315.07	\$12,675,978	3.737%
270422	C 2	ATHENS TEL. CO.	\$251,334	285	\$881.87	\$81,065	0.024%
270423	C 2	CENTRAL LOUISIANA TELEPHONE COMPANY	\$6,389,238	12,555	\$508.90	\$1,376,106	0.406%
270424	C 2	COASTAL TELEPHONE & ELECTRONICS CORP.	\$3,785,349	9,299	\$407.07	\$575,376	0.170%
270425	C 3	CAMERON TEL. CO.- LA	\$2,627,190	5,665	\$463.76	\$501,069	0.148%
270426	A 3	CAMPTI-PLEASANT HILL TEL. COMPANY	\$500,487	2,050	\$244.14	\$0	0.000%
270427	A 3	CHATHAM TELEPHONE COMPANY, INC.	\$290,282	1,189	\$244.14	\$0	0.000%
270428	A 3	DELAMBRE TELEPHONE COMPANY	\$261,962	1,073	\$244.14	\$0	0.000%
270429	C 3	EAST ASCENSION TELEPHONE COMPANY	\$6,465,352	20,675	\$312.71	\$406,264	0.120%
270430	C 3	ELIZABETH TELEPHONE COMPANY INC	\$1,274,114	2,250	\$566.27	\$307,125	0.091%
270431	C 2	CADDOAN TELEPHONE COMPANY	\$3,256,273	7,776	\$418.76	\$523,762	0.154%
270432	A 3	KAPLAN TELEPHONE COMPANY	\$1,090,573	4,467	\$244.14	\$0	0.000%
270433	C 3	LAFOURCHE TEL. CO.	\$4,565,137	11,139	\$409.83	\$703,637	0.207%
270434	C 2	EVANGELINE TELEPHONE COMPANY	\$9,484,308	25,194	\$376.45	\$1,197,345	0.353%
270435	C 3	NORTHEAST LOUISIANA TEL. CO. INC.	\$531,884	791	\$672.42	\$147,329	0.043%
270436	C 2	CENTURY TELEPHONE OF NORTH LOUISIANA,	\$377,124	971	\$388.39	\$51,578	0.015%
270437	C 2	PLAIN DEALING TEL. CO.	\$1,095,317	1,474	\$743.09	\$323,377	0.095%
270438	C 3	RESERVE TELEPHONE COMPANY	\$1,132,594	4,187	\$270.50	\$10,468	0.003%
270439	A 3	RINGGOLD TEL. CO., INC.	\$372,802	1,527	\$244.14	\$0	0.000%
270440	C 2	CENTURY TELEPHONE COMPANY INC.	\$1,349,815	1,450	\$930.91	\$445,766	0.131%

TABLE 3.4

PAGE 11

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
LOUISIANA (CONT.)							
270441	A 3	STAR TEL. CO., INC.	\$1,044,187	4,277	\$244.14	\$0	0.000%
270442	C 2	LOUISIANA WESTERN TELEPHONE COMPANY	\$2,295,685	2,963	\$774.78	\$694,046	0.205%
270443	C 2	UTC OF LOUISIANA	\$1,716,996	2,411	\$712.15	\$493,969	0.146%
275183	C 1	SOUTH CENTRAL BELL-LOUISIANA	\$539,317,219	1,747,249	\$308.67	\$4,837,696	1.426%
STATE TOTAL: MAINE			\$179,228,626	615,586	\$291.15	\$2,697,215	0.795%
100002	A 3	BRYANT POND TEL. CO.	\$115,234	472	\$244.14	\$0	0.000%
100003	C 3	LINCOLNVILLE TEL. CO.	\$348,005	1,173	\$296.68	\$15,410	0.005%
100004	C 3	CHINA TEL. CO.	\$644,903	2,336	\$276.07	\$11,125	0.003%
100005	A 3	COBBOSSEECONTEE TEL. CO.	\$152,832	626	\$244.14	\$0	0.000%
100007	A 3	ISLAND TEL. CO.	\$19,521	35	\$557.75	\$4,638	0.001%
100010	C 3	HAMPDEN TEL. CO.	\$466,938	2,194	\$212.82	\$0	0.000%
100011	C 2	HARTLAND & ST. ALBANS TEL. CO.	\$928,416	2,682	\$346.17	\$89,394	0.026%
100014	C 2	CONTINENTAL TEL. CO OF MAINE	\$13,439,289	36,958	\$363.64	\$1,534,450	0.452%
100015	A 3	COMMUNITY SERVICE TEL. CO.	\$1,923,579	7,879	\$244.14	\$0	0.000%
100019	A 3	OXFORD COUNTY TEL. & TELE. CO.	\$819,578	3,357	\$244.14	\$0	0.000%
100020	A 3	PINE TREE TEL. & TELE. CO.	\$1,061,032	4,346	\$244.14	\$0	0.000%
100022	A 3	SACO RIVER TEL. & TELE. CO.	\$1,363,278	5,584	\$244.14	\$0	0.000%
100024	C 2	SOMERSET TEL. CO.	\$1,923,006	8,747	\$219.85	\$0	0.000%
100025	C 3	STANDISH TEL. CO.	\$1,607,564	4,993	\$321.96	\$116,867	0.034%
100027	C 3	UNION RIVER TEL. CO.	\$478,708	939	\$509.81	\$103,325	0.030%
100029	C 3	UNITY TEL. CO., INC.	\$853,658	3,154	\$270.66	\$8,102	0.002%
100031	C 2	WARREN TEL. CO.	\$293,710	1,259	\$233.29	\$0	0.000%
100034	C 2	WEST PENOBSCOT TEL. & TEL. CO.	\$419,800	1,627	\$258.02	\$0	0.000%
105111	C 1	NEW ENGLAND TEL.-MAINE	\$152,369,575	527,225	\$289.00	\$813,904	0.240%
STATE TOTAL: MARYLAND			\$481,392,525	2,615,317	\$184.07	\$0	0.000%
180216	C 3	ARMSTRONG TELEPHONE COMPANY OF MD	\$1,038,816	4,255	\$244.14	\$0	0.000%
185030	C 1	C & P TELEPHONE COMPANY OF MARYLAND	\$480,353,709	2,611,062	\$183.97	\$0	0.000%
STATE TOTAL: MASSACHUSETTS			\$555,685,137	3,439,457	\$161.56	\$0	0.000%
110036	A 3	GRANBY TEL. & TELE. CO - MA	\$555,419	2,275	\$244.14	\$0	0.000%
110037	A 3	RICHMOND TEL. CO.	\$217,285	890	\$244.14	\$0	0.000%
115112	C 1	NEW ENGLAND TEL.-MA	\$554,912,433	3,436,292	\$161.49	\$0	0.000%
STATE TOTAL: MICHIGAN			\$973,979,360	4,632,396	\$210.25	\$1,268,142	0.374%
310669	A 3	ALLENDALE TELEPHONE COMPANY	\$920,164	3,769	\$244.14	\$0	0.000%
310671	A 2	CENTURY TELEPHONE MIDWEST, INC.	\$4,646,717	19,033	\$244.14	\$0	0.000%
310672	A 2	AUGUSTA TEL. CO.	\$385,497	1,579	\$244.14	\$0	0.000%
310675	A 3	BARAGA TELEPHONE COMPANY	\$824,461	3,377	\$244.14	\$0	0.000%
310676	A 3	BARRY COUNTY TELEPHONE COMPANY	\$1,380,612	5,655	\$244.14	\$0	0.000%
310677	A 3	ISLAND TELEPHONE COMPANY	\$175,763	640	\$274.63	\$2,676	0.001%
310678	A 3	BLANCHARD TELEPHONE ASSOC. INC.	\$246,581	1,010	\$244.14	\$0	0.000%
310679	C 3	BLOOMINGDALE TELEPHONE COMPANY	\$614,227	1,460	\$420.70	\$99,663	0.029%
310680	C 3	CHIPPEWA COUNTY TELEPHONE COMPANY	\$254,620	817	\$311.65	\$15,702	0.005%
310681	C 2	ALLTEL MICHIGAN INC.	\$8,772,570	37,912	\$231.39	\$0	0.000%
310682	C 3	C, C & S TELCO, INC. - MICHIGAN	\$3,525,218	17,457	\$201.94	\$0	0.000%
310683	C 3	CARR TELEPHONE COMPANY	\$295,999	1,348	\$219.58	\$0	0.000%
310685	C 2	CHATHAM TELEPHONE COMPANY - MI	\$510,019	2,230	\$228.71	\$0	0.000%
310687	C 2	CLAYTON TELEPHONE COMPANY	\$140,625	576	\$244.14	\$0	0.000%
310688	A 3	CLIMAX TELEPHONE COMPANY	\$229,980	942	\$244.14	\$0	0.000%
310691	A 3	DEERFIELD FARMERS TELEPHONE COMPANY	\$528,319	2,164	\$244.14	\$0	0.000%
310692	A 3	DRENTHE TELEPHONE COMPANY	\$127,441	522	\$244.14	\$0	0.000%
310694	A 3	FARMERS MUTUAL TEL CO OF CHAPIN	\$91,071	338	\$269.44	\$701	0.000%
310695	C 2	GTE NORTH INC. - MICHIGAN	\$121,538,474	464,154	\$261.85	\$0	0.000%
310699	C 2	HICKORY TELEPHONE COMPANY	\$288,329	1,181	\$244.14	\$0	0.000%

TABLE 3.4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
MICHIGAN (CONT.)							
310702	C 2	CENTURY TELEPHONE OF MICHIGAN, INC.	\$11,732,800	39,567	\$296.53	\$517,339	0.153%
310703	A 3	KALEVA TELEPHONE COMPANY	\$336,669	1,379	\$244.14	\$0	0.000%
310704	C 3	ACE TELEPHONE CO. OF MI INC.	\$1,240,590	3,363	\$368.89	\$147,909	0.044%
310705	A 3	KINGSLEY TELEPHONE COMPANY	\$470,946	1,929	\$244.14	\$0	0.000%
310708	A 3	LENNON TELEPHONE COMPANY	\$414,794	1,699	\$244.14	\$0	0.000%
310711	C 3	MIDWAY TELEPHONE COMPANY	\$357,328	740	\$482.88	\$72,085	0.021%
310713	C 3	HIAWATHA TELEPHONE COMPANY	\$1,021,435	3,395	\$300.86	\$50,373	0.015%
310714	A 3	OGDEN TELEPHONE COMPANY	\$146,393	407	\$359.69	\$16,145	0.005%
310717	C 3	ONTONAGON COUNTY TELEPHONE CO.	\$858,402	3,716	\$231.00	\$0	0.000%
310720	A 3	PENINSULA TELEPHONE COMPANY - MI	\$243,163	996	\$244.14	\$0	0.000%
310721	C 3	PIGEON TELEPHONE COMPANY	\$815,285	2,545	\$320.35	\$57,915	0.017%
310725	A 3	SAND CREEK TEL. CO.	\$223,632	916	\$244.14	\$0	0.000%
310726	A 2	SHIAWASSEE TELEPHONE COMPANY	\$972,898	3,985	\$244.14	\$0	0.000%
310728	C 3	SPRINGPORT TEL. CO.	\$401,884	1,600	\$251.18	\$0	0.000%
310732	C 3	UPPER PENINSULA TEL. CO.	\$1,471,442	3,187	\$461.70	\$278,803	0.082%
310734	A 3	WALDRON TELEPHONE COMPANY	\$135,742	556	\$244.14	\$0	0.000%
310735	A 3	WESTPHALIA TELEPHONE COMPANY	\$190,429	780	\$244.14	\$0	0.000%
310737	C 3	WINN TELEPHONE COMPANY	\$165,273	543	\$304.37	\$8,831	0.003%
310738	C 2	WOLVERINE TELEPHONE COMPANY	\$1,298,843	7,140	\$181.91	\$0	0.000%
315090	C 1	MICHIGAN BELL TEL CO	\$805,984,725	3,987,789	\$202.11	\$0	0.000%
STATE TOTAL: MINNESOTA			\$460,798,721	2,200,339	\$209.42	\$3,257,037	0.960%
361140	C 2	CONTEL OF MINNESOTA, INC.	\$30,636,341	94,311	\$324.84	\$2,318,282	0.683%
361186	C 2	GTE NORTH INC. - MINNESOTA	\$618,354	3,323	\$186.08	\$0	0.000%
361337	A 3	WINNEBAGO COOP TELEPHONE ASSOC - MN	\$246,891	747	\$330.51	\$20,080	0.006%
361346	C 3	ACE TELEPHONE ASSOCIATION - MN	\$1,674,313	8,623	\$194.17	\$0	0.000%
361347	A 3	ALBANY MUTUAL TELEPHONE ASSN. INC.	\$619,139	2,536	\$244.14	\$0	0.000%
361350	C 3	ARVIG TELEPHONE COMPANY	\$1,825,897	8,128	\$224.64	\$0	0.000%
361353	A 3	CITY OF BARNESVILLE TELEPHONE CO	\$257,568	1,055	\$244.14	\$0	0.000%
361356	A 3	BENTON COOPERATIVE TELEPHONE CO.	\$725,096	2,970	\$244.14	\$0	0.000%
361357	A 3	BLACKDUCK TELEPHONE COMPANY	\$252,929	1,036	\$244.14	\$0	0.000%
361358	A 3	BLUE EARTH VALLEY TELEPHONE CO.	\$1,587,154	6,501	\$244.14	\$0	0.000%
361362	C 3	BRIDGEWATER TELEPHONE COMPANY	\$1,078,122	4,416	\$244.14	\$0	0.000%
361365	A 3	CALLAWAY TELEPHONE COMPANY	\$67,995	216	\$314.79	\$4,427	0.001%
361367	C 2	CENTRAL TELEPHONE COMPANY - MN	\$12,053,822	74,699	\$161.37	\$0	0.000%
361370	C 3	CLARA CITY TELEPHONE EXCH. CO.	\$524,207	1,442	\$363.53	\$59,798	0.018%
361372	A 3	CLEMENTS TELEPHONE COMPANY	\$56,606	164	\$345.16	\$5,388	0.002%
361373	A 3	CONSOLIDATED TELEPHONE COMPANY- MN	\$1,490,475	6,105	\$244.14	\$0	0.000%
361374	C 3	ARROWHEAD COMMUNICATIONS CORP.	\$239,780	583	\$411.29	\$37,228	0.011%
361375	A 3	MID-COMMUNICATIONS INC.	\$1,796,138	7,357	\$244.14	\$0	0.000%
361377	A 3	DANUBE TELEPHONE COMPANY	\$108,202	442	\$244.80	\$0	0.000%
361379	C 3	DEER RIVER TELEPHONE CO.	\$394,286	1,615	\$244.14	\$0	0.000%
361380	A 3	DELAVAN TELEPHONE COMPANY	\$90,320	334	\$270.42	\$825	0.000%
361381	A 3	DUNNELL TELEPHONE COMPANY INC.	\$75,608	254	\$297.67	\$3,439	0.001%
361383	A 3	EAGLE VALLEY TELEPHONE COMPANY	\$153,564	629	\$244.14	\$0	0.000%
361384	A 3	EASTON TELEPHONE COMPANY	\$71,807	235	\$305.56	\$3,935	0.001%
361385	C 3	EAST OTTER TAIL TELEPHONE CO.	\$3,424,755	12,893	\$265.63	\$6,769	0.002%
361386	A 3	ECKLES TELEPHONE COMPANY	\$684,324	2,803	\$244.14	\$0	0.000%
361387	A 3	EMILY COOPERATIVE TELEPHONE CO.	\$245,849	1,007	\$244.14	\$0	0.000%
361389	A 3	FARMERS MUTUAL TEL CO - BELLINGHAM	\$327,989	1,151	\$284.96	\$9,640	0.003%
361390	A 3	FEDERATED TELEPHONE COOPERATIVE	\$563,342	1,957	\$287.86	\$18,702	0.006%
361391	A 3	FELTON TELEPHONE COMPANY INC.	\$214,826	702	\$306.02	\$11,886	0.004%
361395	C 3	GARDEN VALLEY TELEPHONE COMPANY	\$3,328,023	12,720	\$261.64	\$0	0.000%
361396	A 3	GARDONVILLE COOPERATIVE TEL. ASSN.	\$564,208	2,311	\$244.14	\$0	0.000%
361399	A 3	GRANADA TEL. CO.	\$76,563	259	\$295.61	\$3,291	0.001%
361401	A 3	HALSTAD TELEPHONE COMPANY	\$518,659	1,439	\$360.43	\$57,578	0.017%
361403	A 3	HANCOCK TELEPHONE COMPANY- MN	\$161,621	662	\$244.14	\$0	0.000%
361404	A 3	HARMONY TELEPHONE COMPANY	\$213,456	865	\$246.77	\$0	0.000%
361405	A 3	HILLS TELEPHONE CO. INC. - MN	\$194,755	524	\$371.67	\$23,727	0.007%

TABLE 3.4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
MINNESOTA (CONT.)							
361407	A 3	HOHMAN TELEPHONE COMPANY	\$1,493,649	6,118	\$244.14	\$0	0.000%
361408	A 3	HOME TEL. CO.- MN	\$396,239	1,623	\$244.14	\$0	0.000%
361409	A 3	HUTCHINSON TELEPHONE COMPANY	\$1,809,566	7,412	\$244.14	\$0	0.000%
361410	C 3	JOHNSON TELEPHONE COMPANY	\$748,643	1,346	\$556.20	\$177,378	0.052%
361412	A 3	KASSON & MANTORVILLE TEL. CO.	\$600,096	2,458	\$244.14	\$0	0.000%
361413	A 3	K M P TELEPHONE COMPANY	\$354,003	1,450	\$244.14	\$0	0.000%
361414	C 3	LAKEDALE TELEPHONE COMPANY	\$1,802,348	9,377	\$192.21	\$0	0.000%
361419	A 3	LISMORE COOPERATIVE TELEPHONE CO.	\$90,666	336	\$269.84	\$752	0.000%
361422	A 3	LONSDALE TELEPHONE COMPANY	\$281,738	1,154	\$244.14	\$0	0.000%
361423	A 3	LOWRY TELEPHONE COMPANY	\$170,166	697	\$244.14	\$0	0.000%
361424	A 3	MABEL COOPERATIVE TELEPHONE CO.- MN	\$195,728	756	\$258.90	\$0	0.000%
361425	A 3	MADELIA TELEPHONE COMPANY	\$364,745	1,494	\$244.14	\$0	0.000%
361426	A 3	MANCHESTER-HARTLAND TELEPHONE CO.	\$163,300	572	\$285.49	\$4,916	0.001%
361427	A 3	MANKATO CITIZENS TELEPHONE CO.	\$6,528,304	26,740	\$244.14	\$0	0.000%
361430	A 3	MELROSE TELEPHONE COMPANY	\$1,923,579	7,879	\$244.14	\$0	0.000%
361431	A 3	MIDWEST TEL. CO.	\$555,174	2,274	\$244.14	\$0	0.000%
361433	C 2	MID STATE TELEPHONE COMPANY	\$1,127,171	5,548	\$203.17	\$0	0.000%
361437	A 3	MINNESOTA LAKE TELEPHONE COMPANY	\$126,709	519	\$244.14	\$0	0.000%
361439	A 3	MINNESOTA VALLEY TEL. CO. INC.	\$267,332	981	\$272.51	\$3,256	0.001%
361440	A 3	CANNON VALLEY TELECOM, INC.	\$444,579	1,821	\$244.14	\$0	0.000%
361442	C 3	NEW ULM TELECOM, INC.	\$1,352,394	8,012	\$168.80	\$0	0.000%
361443	C 3	NORMAN COUNTY TELEPHONE CO. INC.	\$916,013	3,752	\$244.14	\$0	0.000%
361445	A 3	NORTHLAND TELEPHONE COMPANY	\$142,089	582	\$244.14	\$0	0.000%
361448	A 3	OSAKIS TELEPHONE COMPANY	\$371,337	1,521	\$244.14	\$0	0.000%
361450	A 3	PARK REGION MUTUAL TEL. CO.	\$848,875	3,477	\$244.14	\$0	0.000%
361451	C 3	PAUL BUNYAN RURAL TEL. COOP.	\$1,705,315	4,953	\$344.30	\$160,880	0.047%
361453	A 3	PEOPLES TELEPHONE COMPANY - MN	\$341,552	1,399	\$244.14	\$0	0.000%
361454	A 3	PINE ISLAND TELEPHONE COMPANY	\$560,301	2,295	\$244.14	\$0	0.000%
361456	C 2	UNITED TELEPHONE CO OF MINN	\$27,965,140	103,096	\$271.25	\$289,313	0.085%
361472	A 3	REDWOOD COUNTY TEL. CO.	\$1,024,656	4,197	\$244.14	\$0	0.000%
361473	A 3	ROCK DELL TEL. CO.	\$122,070	500	\$244.14	\$0	0.000%
361474	A 3	ROTHSAY TELEPHONE COMPANY INC.	\$119,629	490	\$244.14	\$0	0.000%
361475	A 3	RUNESTONE TEL. ASSN.	\$908,820	3,571	\$254.50	\$0	0.000%
361476	A 3	SACRED HEART TEL. CO.	\$130,371	534	\$244.14	\$0	0.000%
361479	A 3	SCOTT RICE TEL. CO.	\$1,990,473	8,153	\$244.14	\$0	0.000%
361482	A 3	SHERBURNE COUNTY RURAL TEL. CO.	\$1,418,209	5,809	\$244.14	\$0	0.000%
361483	C 3	SLEEPY EYE TEL. CO.	\$1,269,872	5,112	\$248.41	\$0	0.000%
361485	A 3	SPRING GROVE COOP TEL CO	\$275,634	1,129	\$244.14	\$0	0.000%
361487	A 3	STARBUCK TEL. CO.	\$277,099	1,135	\$244.14	\$0	0.000%
361491	C 3	TWIN VALLEY-ULEN TEL CO INC.	\$733,351	2,718	\$269.81	\$6,048	0.002%
361494	A 3	UPSALA COOPERATIVE TELEPHONE ASSN.	\$202,636	830	\$244.14	\$0	0.000%
361495	A 3	VALLEY TEL. CO.-MN	\$178,047	653	\$272.66	\$2,208	0.001%
361499	A 3	CROSSLAKE TELEPHONE COMPANY	\$324,218	1,328	\$244.14	\$0	0.000%
361500	A 3	NORTHERN TELEPHONE COMPANY OF MN	\$17,005	29	\$586.38	\$4,232	0.001%
361501	A 3	WEST CENTRAL TELEPHONE ASSN.	\$761,961	3,121	\$244.14	\$0	0.000%
361502	A 3	WESTERN TELEPHONE COMPANY	\$528,563	2,165	\$244.14	\$0	0.000%
361505	A 3	WIKSTROM TELEPHONE COMPANY INC.	\$1,330,297	5,266	\$252.62	\$0	0.000%
361507	A 3	WINSTED TELEPHONE COMPANY	\$308,349	1,263	\$244.14	\$0	0.000%
361508	A 3	WINTHROP TEL. CO.	\$249,999	1,024	\$244.14	\$0	0.000%
361510	A 3	WOODSTOCK TELEPHONE COMPANY	\$373,601	1,248	\$299.36	\$17,753	0.005%
361512	A 3	WOLVERTON TELEPHONE COMPANY	\$57,734	169	\$341.62	\$5,306	0.002%
361515	A 3	ZUMBROTA TELEPHONE COMPANY	\$407,958	1,671	\$244.14	\$0	0.000%
361654	A 3	INTERSTATE TELECOMMUNICATIONS COOP.,	\$353,759	1,449	\$244.14	\$0	0.000%
365142	C 1	NORTHWESTERN BELL-MINNESOTA	\$326,624,675	1,670,119	\$195.57	\$0	0.000%
STATE TOTAL:			\$327,794,476	974,276	\$336.45	\$6,666,676	1.965%
280446	C 3	BAY SPRINGS TELEPHONE COMPANY INC.	\$3,791,587	8,078	\$469.37	\$735,754	0.217%
280447	A 3	BRUCE TELEPHONE COMPANY - MS	\$628,661	2,575	\$244.14	\$0	0.000%
280448	A 2	CALHOUN CITY TEL. COMPANY INC.	\$765,867	3,137	\$244.14	\$0	0.000%

TABLE 3.4

PAGE 14

National Exchange Carrier Association
 Universal Service Fund
 Individual Study Areas
 Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
MISSISSIPPI (CONT.)							
280449	A 2	MYRTLE TELEPHONE COMPANY INC.	\$140,381	575	\$244.14	\$0	0.000%
280451	A 3	DECATUR TELEPHONE CO INC- MS	\$357,909	1,466	\$244.14	\$0	0.000%
280452	C 3	DELTA TELEPHONE COMPANY INC.	\$693,252	3,142	\$220.64	\$0	0.000%
280453	C 2	ALLTEL MISSISSIPPI INC.	\$3,032,349	7,883	\$384.67	\$404,989	0.119%
280454	C 3	FRANKLIN TELEPHONE COMPANY INC - MS	\$2,167,901	6,017	\$360.30	\$240,379	0.071%
280455	A 3	FULTON TELEPHONE COMPANY INC.	\$1,480,465	6,064	\$244.14	\$0	0.000%
280456	C 3	GEORGETOWN TELE. CO., INC.	\$125,011	240	\$520.88	\$27,654	0.008%
280457	A 3	LAKESIDE TELEPHONE COMPANY, INC.	\$91,569	341	\$268.53	\$580	0.000%
280458	C 2	HOME TELEPHONE COMPANY- OLIVE BRANCH	\$4,274,571	7,408	\$577.02	\$1,048,510	0.309%
280459	C 3	HUGHES TELEPHONE COMPANY	\$1,730,733	5,135	\$337.05	\$151,675	0.045%
280460	A 3	MID-SOUTH TEL. COMPANY INC.	\$1,069,821	4,382	\$244.14	\$0	0.000%
280462	A 3	MOUND BAYOU TEL. & COMMUNICATIONS, IN	\$189,453	776	\$244.14	\$0	0.000%
280464	C 3	NOXAPATER TEL. CO.	\$0	0	\$0.00	\$0	0.000%
280465	A 3	SHERWOOD TEL. CO., INC.	\$92,082	344	\$267.68	\$467	0.000%
280466	A 3	SLEDGE TEL. CO., INC.	\$102,621	407	\$252.14	\$0	0.000%
280467	A 3	SMITHVILLE TEL. CO.	\$204,589	838	\$244.14	\$0	0.000%
285184	C 1	SOUTH CENTRAL BELL-MISSISSIPPI	\$306,855,654	915,468	\$335.19	\$4,056,668	1.196%
STATE TOTAL: MISSOURI			\$570,627,131	2,441,269	\$233.74	\$21,576,475	6.361%
421186	C 2	GTE NORTH INC. - MISSOURI	\$25,801,901	85,720	\$301.00	\$1,276,692	0.376%
421206	A 3	IAMO TELEPHONE COMPANY - MO	\$319,790	1,107	\$288.88	\$11,035	0.003%
421759	A 3	CRAW-KAN TELEPHONE COOP INC - MO	\$534,237	1,960	\$272.57	\$6,554	0.002%
421807	C 3	MOKAN DIAL, INC.- MO	\$176,187	591	\$298.12	\$8,111	0.002%
421846	C 2	CONTINENTAL SYSTEMS OF MISSOURI	\$13,451,299	36,957	\$363.97	\$1,540,183	0.454%
421859	C 3	BOURBEUSE TELEPHONE COMPANY	\$352,782	1,445	\$244.14	\$0	0.000%
421860	A 3	ALMA TELEPHONE COMPANY	\$91,752	342	\$268.28	\$547	0.000%
421864	A 3	CHARITON VALLEY TELEPHONE CO.	\$1,793,005	6,993	\$256.40	\$0	0.000%
421865	C 3	CITIZENS TELEPHONE CO - MISSOURI	\$1,077,751	3,414	\$315.69	\$71,225	0.021%
421873	C 3	EASTERN MISSOURI TELEPHONE CO.	\$1,026,259	2,511	\$408.71	\$157,298	0.046%
421874	A 3	ELLINGTON TELEPHONE COMPANY	\$378,318	1,272	\$297.42	\$17,093	0.005%
421876	A 3	FARBER TELEPHONE COMPANY	\$66,031	207	\$318.99	\$4,595	0.001%
421882	C 3	FIDELITY TELEPHONE COMPANY	\$2,957,944	9,731	\$303.97	\$156,669	0.046%
421885	C 2	ALLTEL MISSOURI INC.	\$7,961,038	20,233	\$393.47	\$1,122,932	0.331%
421886	C 3	GOODMAN TEL. CO.	\$479,934	1,410	\$340.38	\$43,560	0.013%
421887	A 3	GRANBY TEL CO - MISSOURI	\$66,651	2,022	\$244.14	\$0	0.000%
421888	C 3	GRAND RIVER MUTUAL TEL CORP - MO	\$3,830,407	12,008	\$318.99	\$266,578	0.079%
421890	A 3	GREEN HILLS TELEPHONE CORP.	\$821,284	2,742	\$299.52	\$39,193	0.012%
421893	A 3	CHOCTAW TELEPHONE COMPANY	\$105,078	422	\$249.00	\$0	0.000%
421900	A 3	KLM TEL. CO.	\$333,491	1,181	\$282.38	\$8,658	0.003%
421901	C 3	KINGDOM TELEPHONE COMPANY	\$979,578	2,462	\$397.88	\$141,734	0.042%
421904	C 3	MISSOURI TELEPHONE COMPANY	\$4,220,587	15,450	\$273.18	\$55,523	0.016%
421908	C 3	LE-RU TELEPHONE COMPANY	\$682,365	961	\$710.06	\$195,948	0.058%
421912	A 3	MCDONALD COUNTY TELEPHONE CO.	\$470,946	1,929	\$244.14	\$0	0.000%
421914	A 3	MARK TWAIN RURAL TELEPHONE CO.	\$1,101,049	3,779	\$291.36	\$41,475	0.012%
421917	A 3	MID-MISSOURI TELEPHONE CO.	\$912,025	3,074	\$296.69	\$40,404	0.012%
421920	A 3	MILLER TELEPHONE COMPANY - MO	\$215,087	881	\$244.14	\$0	0.000%
421922	C 2	CONTEL OF MISSOURI, INC.	\$67,424,714	140,673	\$479.30	\$13,466,802	3.970%
421927	A 3	NEW FLORENCE TELEPHONE CO.	\$94,469	358	\$263.88	\$0	0.000%
421928	A 2	NEW LONDON TEL. CO.	\$149,658	613	\$244.14	\$0	0.000%
421929	C 2	HOLWAY TELEPHONE COMPANY	\$311,054	550	\$565.55	\$74,889	0.022%
421931	C 3	NORTHEAST MISSOURI RURAL TEL. CO.	\$1,612,160	3,360	\$479.81	\$322,476	0.095%
421932	C 3	LATHROP TELEPHONE COMPANY	\$266,845	1,093	\$244.14	\$0	0.000%
421934	C 2	ORCHARD FARM TELEPHONE COMPANY	\$289,016	662	\$436.58	\$50,118	0.015%
421935	A 3	OREGON FARMERS MUTUAL TEL. CO.	\$246,093	1,008	\$244.14	\$0	0.000%
421936	A 3	PEACE VALLEY TELEPHONE CO.	\$81,085	283	\$286.52	\$2,551	0.001%
421942	A 3	ROCK PORT TEL. CO.	\$374,755	1,535	\$244.14	\$0	0.000%
421945	A 3	SENECA TEL. CO.	\$554,686	2,272	\$244.14	\$0	0.000%
421949	A 3	STEELVILLE TEL. EXCH. INC.	\$809,812	3,317	\$244.14	\$0	0.000%
421951	C 2	STOUTLAND TELEPHONE COMPANY	\$480,790	892	\$539.00	\$110,357	0.033%

TABLE 3.4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL	
MISSOURI (CONT.)								
421957	C 2	UNITED TELEPHONE CO. OF MISSOURI	\$50,524,432	169,414	\$298.23	\$2,332,619	0.688%	
421964	A 3	WHEELING TELEPHONE COMPANY	\$115,311	337	\$342.17	\$10,656	0.003%	
425213	C 1	SOUTHWESTERN BELL-MISSOURI	\$376,658,475	1,894,098	\$198.86	\$0	0.000%	
STATE TOTAL:			MISSOURI	\$117,769,471	369,932	\$318.35	\$4,989,227	1.471%
482235	C 3	BLACKFOOT TEL. COOPERATIVE INC.	\$2,553,058	4,692	\$544.13	\$591,779	0.174%	
482241	A 3	HOT SPRINGS TEL. CO.	\$99,518	388	\$256.49	\$0	0.000%	
482242	C 3	INTERBEL TEL. COOPERATIVE INC.	\$354,890	856	\$414.59	\$55,982	0.017%	
482244	C 3	LINCOLN TEL. CO. INC.	\$212,815	710	\$299.74	\$10,211	0.003%	
482246	C 3	MID-RIVERS TEL. COOPERATIVE INC.	\$3,610,934	5,911	\$610.88	\$930,465	0.274%	
482247	C 3	NEMONT TELEPHONE COOP.- MONTANA	\$1,214,929	2,271	\$534.98	\$276,679	0.082%	
482248	C 3	NORTHERN TEL. COOP INC.- MT	\$614,750	1,358	\$452.69	\$113,070	0.033%	
482249	C 2	NORTHWESTERN TELEPHONE SYSTEMS, INC.	\$8,855,092	28,996	\$305.39	\$483,508	0.143%	
482250	C 3	PROJECT TEL. CO.	\$1,101,197	2,556	\$430.83	\$186,620	0.055%	
482251	C 3	RANGE TEL. COOP INC.-MT	\$1,751,455	2,657	\$659.19	\$478,409	0.141%	
482252	A 3	RONAN TEL. CO.	\$503,905	2,064	\$244.14	\$0	0.000%	
482254	C 3	SOUTHERN MONTANA TEL. CO.	\$547,154	604	\$905.88	\$178,599	0.053%	
482255	C 3	3-RIVERS TEL. COOPERATIVE INC.	\$2,530,888	8,382	\$301.94	\$128,035	0.038%	
482257	C 3	TRIANGLE TEL. COOPERATIVE ASSN. INC.	\$3,144,396	8,094	\$388.48	\$430,297	0.127%	
482258	C 3	VALLEY RURAL TEL. COOP. ASSN.-MT	\$609,030	825	\$738.22	\$179,108	0.053%	
482416	C 2	GTE NORTHWEST INC. - MONTANA	\$2,356,843	6,149	\$383.29	\$311,946	0.092%	
485104	C 1	MOUNTAIN BELL-MONTANA	\$87,708,617	293,419	\$298.92	\$634,519	0.187%	
STATE TOTAL:			NEBRASKA	\$171,713,516	807,716	\$212.59	\$2,530,762	0.746%
371186	C 2	GTE NORTH INC. - NEBRASKA	\$10,099,222	42,385	\$238.27	\$0	0.000%	
371516	C 3	ARAPAHOE TELEPHONE COMPANY	\$408,813	1,004	\$407.18	\$62,173	0.018%	
371517	C 3	ARLINGTON TELEPHONE COMPANY	\$421,430	899	\$468.78	\$81,629	0.024%	
371524	C 3	BLAIR TELEPHONE COMPANY	\$1,401,440	5,178	\$270.65	\$13,269	0.004%	
371525	C 3	THREE RIVER TELCO	\$536,183	1,207	\$444.23	\$95,708	0.028%	
371526	A 3	CAMBRIDGE TELEPHONE COMPANY - NE	\$281,738	1,154	\$244.14	\$0	0.000%	
371530	A 3	CONSOLIDATED TELCO, INC.	\$417,418	1,479	\$282.23	\$10,750	0.003%	
371531	A 3	CLARKS TELEPHONE COMPANY	\$264,961	968	\$273.72	\$3,691	0.001%	
371532	A 3	CONSOLIDATED TELEPHONE COMPANY- NE	\$860,718	2,814	\$305.87	\$47,469	0.014%	
371534	C 3	COZAD TELEPHONE COMPANY	\$568,442	2,548	\$223.09	\$0	0.000%	
371536	C 3	CURTIS TELEPHONE COMPANY	\$299,911	731	\$410.27	\$46,327	0.014%	
371537	C 3	DALTON TEL. CO., INC.	\$613,818	1,254	\$489.49	\$126,043	0.037%	
371540	C 3	DILLER TELEPHONE COMPANY	\$321,505	889	\$361.65	\$36,082	0.011%	
371542	C 3	EASTERN NEBRASKA TELEPHONE COMPANY	\$857,681	2,358	\$363.73	\$98,004	0.029%	
371544	A 3	ELSIE MUTUAL TELEPHONE COMPANY	\$65,409	204	\$320.63	\$4,665	0.001%	
371545	A 3	EUSTIS TELEPHONE EXCHANGE INC.	\$111,572	457	\$244.14	\$0	0.000%	
371553	A 3	GLENWOOD TELEPHONE MEMBERSHIP CORP.	\$622,801	2,551	\$244.14	\$0	0.000%	
371555	A 3	HAMILTON TELEPHONE COMPANY	\$1,172,360	4,802	\$244.14	\$0	0.000%	
371556	A 3	HARTINGTON TEL. CO.	\$332,030	1,360	\$244.14	\$0	0.000%	
371557	C 3	HARTMAN TELEPHONE EXCHANGES INC.	\$311,145	437	\$712.00	\$89,503	0.026%	
371558	C 3	HEMINGFORD COOP. TELEPHONE COMPANY	\$260,798	834	\$312.71	\$16,388	0.005%	
371559	A 3	HENDERSON CO-OP TELEPHONE COMPANY	\$223,876	917	\$244.14	\$0	0.000%	
371561	A 3	HERSHEY COOPERATIVE TELEPHONE CO	\$168,212	689	\$244.14	\$0	0.000%	
371562	A 3	HOME TEL. CO. OF NE	\$182,971	681	\$268.68	\$1,200	0.000%	
371563	A 3	HOOPER TELEPHONE COMPANY	\$283,202	1,160	\$244.14	\$0	0.000%	
371565	A 3	K & M TELEPHONE COMPANY INC.	\$173,742	629	\$276.22	\$3,035	0.001%	
371567	C 3	KEYSTONE-ARTHUR TELEPHONE COMPANY	\$287,208	554	\$518.43	\$63,198	0.019%	
371568	C 2	LINCOLN TEL. & TELE. CO.	\$40,498,792	224,786	\$180.17	\$0	0.000%	
371574	C 3	NEBRASKA CENTRAL TELEPHONE COMPANY	\$1,854,523	5,796	\$319.97	\$130,990	0.039%	
371576	A 3	NORTHEAST NEBRASKA TELEPHONE COMPANY	\$1,049,007	3,810	\$275.33	\$17,002	0.005%	
371577	C 3	GREAT PLAINS COMMUNICATIONS, INC.	\$7,763,854	24,746	\$313.74	\$496,621	0.146%	
371580	C 3	PETERSBURG TELEPHONE COMPANY	\$251,961	446	\$564.94	\$60,600	0.018%	
371581	A 3	PIERCE TELEPHONE COMPANY	\$403,808	1,654	\$244.14	\$0	0.000%	
371582	A 3	PLAINVIEW TELEPHONE COMPANY INC.	\$283,935	1,163	\$244.14	\$0	0.000%	

TABLE 3.4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
NEBRASKA (CONT.)							
371586	C 3	ROCK COUNTY TEL. CO.	\$689,568	980	\$703.64	\$196,876	0.058%
371590	A 3	SODTOWN TEL. CO.	\$34,718	80	\$433.98	\$5,959	0.002%
371591	C 3	SOUTHEAST NEBRASKA TEL. CO.	\$1,992,570	3,828	\$520.53	\$440,459	0.130%
371592	C 3	STANTON TEL. CO., INC.	\$468,378	1,004	\$466.51	\$90,096	0.027%
371595	C 2	UNITED TELEPHONE CO. OF THE WEST-NE	\$5,958,329	23,216	\$256.65	\$0	0.000%
371597	C 3	WAUNETA TEL. CO.	\$492,737	621	\$793.46	\$150,899	0.044%
372455	C 3	BENKELMAN TELEPHONE COMPANY INC.	\$629,162	1,185	\$530.94	\$142,126	0.042%
375143	C 1	NORTHWESTERN BELL-NEBRASKA	\$87,793,568	434,258	\$202.17	\$0	0.000%
STATE TOTAL: NEVADA			\$129,359,510	624,741	\$207.06	\$1,970,721	0.581%
552220	A 3	FILER MUTUAL TELEPHONE COMPANY - NV	\$94,874	360	\$263.54	\$0	0.000%
552223	C 2	GEM STATE UTILITIES CORP-NV	\$203,672	333	\$611.63	\$52,535	0.015%
552233	C 3	RURAL TELEPHONE COMPANY - NV	\$309,168	349	\$885.87	\$99,923	0.029%
552284	A 3	BEEHIVE TELEPHONE COMPANY, INC., NV	\$31,234	31	\$1,007.56	\$10,644	0.003%
552302	C 2	CONTEL OF CALIFORNIA - NEVADA	\$6,301,632	17,576	\$358.54	\$687,661	0.203%
552304	C 2	C P NATIONAL CORP. - NEVADA	\$4,156,024	10,781	\$385.50	\$558,052	0.165%
552348	C 2	CENTRAL TELEPHONE COMPANY - NEVADA	\$56,065,266	376,213	\$149.03	\$0	0.000%
552349	C 3	CHURCHILL CO. TEL. & TEL. SYSTEM	\$2,842,997	7,993	\$355.69	\$302,085	0.089%
552351	C 3	LINCOLN COUNTY TELEPHONE SYSTEM INC.	\$434,336	1,501	\$289.36	\$15,254	0.004%
552353	C 3	MOAPA VALLEY TELEPHONE COMPANY	\$389,867	2,038	\$191.30	\$0	0.000%
552354	C 2	NEVADA TELEPHONE-TELEGRAPH COMPANY	\$687,975	2,475	\$277.97	\$13,705	0.004%
552356	C 3	RIO VIRGIN TELEPHONE COMPANY	\$291,819	1,056	\$276.34	\$5,148	0.002%
555173	C 1	NEVADA BELL	\$57,550,646	204,035	\$282.06	\$225,714	0.067%
STATE TOTAL: NEW HAMPSHIRE			\$191,235,355	595,471	\$321.15	\$2,442,529	0.720%
120038	C 3	BRETTON WOODS TEL. CO.	\$56,745	258	\$219.94	\$0	0.000%
120039	C 3	GRANITE STATE TEL., INC.	\$2,017,859	6,653	\$303.30	\$105,284	0.031%
120040	A 3	CHICHESTER TEL. CO.	\$201,394	1,090	\$184.77	\$0	0.000%
120041	C 2	CONTINENTAL TEL. CO. OF NH, INC.	\$2,678,517	9,161	\$292.38	\$104,378	0.031%
120042	A 3	DIXVILLE TEL. CO.	\$42,231	106	\$398.41	\$6,129	0.002%
120043	A 3	DUNBARTON TEL. CO.	\$227,294	931	\$244.14	\$0	0.000%
120045	C 2	KEARSARGE TEL. CO.	\$1,186,225	5,153	\$230.20	\$0	0.000%
120046	C 2	MERIDEN TEL. CO.	\$93,224	463	\$201.35	\$0	0.000%
120047	C 3	MERRIMACK COUNTY TEL. CO.	\$1,558,322	5,805	\$268.44	\$9,687	0.003%
120049	C 3	UNION TEL. CO.	\$961,918	5,187	\$185.45	\$0	0.000%
120050	C 3	WILTON TEL. CO. - NH	\$823,401	2,177	\$378.23	\$105,272	0.031%
125113	C 1	NEW ENGLAND TEL.-NH	\$181,388,225	558,487	\$324.79	\$2,111,779	0.623%
STATE TOTAL: NEW JERSEY			\$762,192,747	4,714,496	\$161.67	\$0	0.000%
160135	C 3	WARWICK VALLEY TEL. CO.-NJ	\$684,826	6,785	\$100.93	\$0	0.000%
160138	C 2	UNITED TEL. CO. OF NJ, INC.	\$35,635,088	135,362	\$263.26	\$0	0.000%
165120	C 1	NEW JERSEY BELL	\$725,872,833	4,572,349	\$158.75	\$0	0.000%
STATE TOTAL: NEW MEXICO			\$180,708,190	639,421	\$282.61	\$10,999,349	3.243%
492066	C 3	DELL TELEPHONE CO-OP. INC.-NM	\$635,348	250	\$2,541.39	\$265,584	0.078%
492080	C 2	GTE SOUTHWEST INC. - NEW MEXICO	\$10,575,474	36,636	\$288.66	\$362,009	0.107%
492176	C 3	VALLEY TELEPHONE COOPERATIVE INC-NM	\$870,999	1,132	\$769.43	\$262,320	0.077%
492177	C 2	CONTEL OF THE WEST - NEW MEXICO	\$12,973,902	26,482	\$489.91	\$2,666,903	0.786%
492259	C 3	BACA VALLEY TEL. CO.	\$656,625	556	\$1,180.98	\$236,102	0.070%
492262	C 3	E.N.M.R. TEL COOP. INC.-NM	\$8,448,280	8,981	\$940.68	\$2,802,128	0.826%
492263	C 3	LA JICARITA RURAL TEL. COOP. INC.	\$717,600	1,391	\$515.89	\$157,027	0.046%
492264	C 3	LEACO RURAL TEL. COOPERATIVE INC.	\$739,594	756	\$978.30	\$249,206	0.073%
492268	C 3	WESTERN NEW MEXICO TEL. CO., INC.	\$5,118,739	3,998	\$1,280.32	\$1,883,908	0.555%
492270	C 3	PENASCO VALLEY TEL. COOPERATIVE INC.	\$2,390,184	1,949	\$1,226.36	\$869,096	0.256%
492272	C 3	ROOSEVELT COUNTY RURAL TEL. COOP., INC	\$1,179,775	1,413	\$834.94	\$370,824	0.109%
492274	C 3	UNIVERSAL TEL CO OF SOUTHWEST- NM	\$979,054	3,354	\$291.91	\$37,565	0.011%

TABLE 3.4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
NEW MEXICO (CONT.)							
492275	C 2	NAVAJO COMMUNICATIONS CO INC.-NM	\$2,617,001	3,025	\$865.12	\$836,677	0.247%
495105	C 1	MOUNTAIN BELL-NEW MEXICO	\$132,805,615	549,498	\$241.69	\$0	0.000%
STATE TOTAL: NEW YORK			\$2,156,159,101	10,200,580	\$211.38	\$7,137,872	2.104%
150071	C 3	ARMSTRONG TELEPHONE COMPANY - NY	\$698,973	2,863	\$244.14	\$0	0.000%
150072	C 2	AU SABLE VALLEY TEL. CO. INC.	\$1,565,128	5,410	\$289.30	\$54,844	0.016%
150073	A 3	BERKSHIRE TEL. CORP.	\$1,172,116	4,801	\$244.14	\$0	0.000%
150076	A 3	CASSADAGA TEL. CORP.	\$294,677	1,207	\$244.14	\$0	0.000%
150077	C 3	CHAMPLAIN TEL. CO.	\$1,031,641	4,319	\$238.86	\$0	0.000%
150078	C 3	CHAUTAUQUA & ERIE TEL. CORP.	\$1,665,754	8,656	\$192.44	\$0	0.000%
150079	A 3	CHAZY & WESTPORT TEL. CORP.	\$695,311	2,848	\$244.14	\$0	0.000%
150081	C 3	CITIZENS TEL. CO. OF HAMMOND, NY	\$528,307	780	\$677.32	\$147,074	0.043%
150082	C 2	CLYMER TEL. CO.	\$264,460	750	\$352.61	\$27,263	0.008%
150084	C 3	TACONIC TEL. CORP.	\$3,659,324	17,739	\$206.29	\$0	0.000%
150085	C 3	CROWN POINT TELEPHONE CORPORATION	\$430,798	648	\$664.81	\$118,386	0.035%
150088	A 3	DELHI TELEPHONE COMPANY	\$930,418	3,811	\$244.14	\$0	0.000%
150089	A 3	DEPOSIT TELEPHONE CO. INC.	\$1,601,558	6,560	\$244.14	\$0	0.000%
150091	C 3	DUNKIRK AND FREDONIA TEL. CO.	\$942,932	8,297	\$113.65	\$0	0.000%
150092	C 2	EDWARDS TELEPHONE CO. INC.	\$795,031	1,538	\$516.93	\$174,371	0.051%
150093	C 3	EMPIRE TELEPHONE CORP - NEW YORK	\$1,670,231	5,907	\$282.75	\$44,192	0.013%
150095	A 3	THE FISHERS ISLAND TEL. CO.	\$216,796	888	\$244.14	\$0	0.000%
150096	C 2	CONTINENTAL TEL CO OF NY, INC.	\$62,269,631	187,617	\$331.90	\$5,148,914	1.518%
150097	C 3	GERMANTOWN TELEPHONE CO INC.	\$807,043	1,806	\$446.87	\$145,439	0.043%
150099	C 3	HANCOCK TELEPHONE COMPANY - NY	\$464,492	1,275	\$364.31	\$53,335	0.016%
150100	C 2	HIGHLAND TELEPHONE CO.	\$9,499,644	47,387	\$200.47	\$0	0.000%
150104	A 3	MARGARETVILLE TEL. CO. INC.	\$681,883	2,793	\$244.14	\$0	0.000%
150105	C 3	MIDDLEBURGH TELEPHONE CO.	\$1,632,716	4,307	\$379.08	\$209,993	0.062%
150106	C 2	ALLTEL NEW YORK INC.- FULTON	\$9,351,274	37,693	\$248.09	\$0	0.000%
150107	A 3	NEWPORT TELEPHONE CO. INC.	\$530,028	2,171	\$244.14	\$0	0.000%
150108	C 3	NICHOLVILLE TEL. CO. INC.	\$459,190	1,385	\$331.55	\$37,819	0.011%
150109	C 2	ALLTEL NEW YORK INC. - JAMESTOWN	\$7,020,834	38,955	\$180.23	\$0	0.000%
150110	C 3	OGDEN TELEPHONE COMPANY - NY	\$2,269,425	16,899	\$134.29	\$0	0.000%
150111	A 3	ONEIDA COUNTY RURAL TEL. CO.	\$739,012	3,027	\$244.14	\$0	0.000%
150112	A 3	ONTARIO TEL CO INC	\$923,337	3,782	\$244.14	\$0	0.000%
150113	C 2	ALLTEL NY INC. - RED JACKET	\$405,415	2,380	\$170.34	\$0	0.000%
150114	A 3	ORISKANY FALLS TELEPHONE CORP.	\$161,865	663	\$244.14	\$0	0.000%
150116	A 3	PATTERSONVILLE TEL CO- NEW YORK	\$261,754	1,080	\$242.36	\$0	0.000%
150118	A 3	PORT BYRON TELEPHONE COMPANY	\$627,440	2,570	\$244.14	\$0	0.000%
150119	C 2	RED HOOK TELEPHONE COMPANY	\$3,094,986	11,407	\$271.32	\$32,367	0.010%
150121	C 2	ROCHESTER TELEPHONE CORPORATION	\$83,957,721	437,892	\$191.73	\$0	0.000%
150122	C 3	SENECA-GORHAM TEL. CORP.	\$1,480,946	7,431	\$199.29	\$0	0.000%
150125	A 3	STATE TEL. CO.	\$1,640,377	6,719	\$244.14	\$0	0.000%
150128	C 2	SYLVAN LAKE TELEPHONE COMPANY	\$2,918,956	13,117	\$222.53	\$0	0.000%
150129	A 3	TOWNSHIP TELEPHONE COMPANY INC.	\$771,238	3,159	\$244.14	\$0	0.000%
150131	A 3	TRUMANSBURG HOME TELEPHONE COMPANY	\$1,242,917	5,091	\$244.14	\$0	0.000%
150133	C 3	VERNON TELEPHONE COMPANY INC.	\$495,676	2,136	\$232.06	\$0	0.000%
150135	C 3	WARWICK VALLEY TEL. CO.-NY	\$1,299,978	10,472	\$124.14	\$0	0.000%
150136	C 2	WESTERN COUNTIES TELEPHONE CO.	\$7,053,264	18,321	\$384.98	\$943,875	0.278%
155130	C 1	NEW YORK TELEPHONE	\$1,935,934,604	9,252,023	\$209.24	\$0	0.000%
STATE TOTAL: NORTH CAROLINA			\$844,827,435	3,123,618	\$270.46	\$8,791,898	2.592%
230468	C 3	ATLANTIC TELEPHONE MEMB. CORP.	\$3,872,473	18,605	\$208.14	\$0	0.000%
230469	C 2	BARNARDSVILLE TELEPHONE COMPANY	\$217,536	840	\$258.97	\$0	0.000%
230470	C 2	CAROLINA TELEPHONE & TEL. CO.	\$191,823,870	747,123	\$256.75	\$0	0.000%
230471	C 2	CENTRAL TEL. CO. - NORTH CAROLINA	\$35,872,374	186,735	\$192.10	\$0	0.000%
230473	C 3	CITIZENS TELEPHONE COMPANY - NC	\$3,823,340	13,200	\$289.65	\$135,713	0.040%
230474	C 3	THE CONCORD TELEPHONE COMPANY	\$9,178,161	72,465	\$126.66	\$0	0.000%
230476	C 2	ALLTEL CAROLINA INC.- NORTH	\$26,382,530	89,562	\$294.57	\$1,099,933	0.324%

TABLE 3.4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
NORTH CAROLINA (CONT.)							
230478	A 3	ELLERBE TELEPHONE COMPANY	\$396,728	1,625	\$244.14	\$0	0.000%
230479	C 2	GTE SOUTH INC. - NORTH CAROLINA	\$31,589,867	134,155	\$235.47	\$0	0.000%
230481	C 2	HEINS TELEPHONE COMPANY	\$4,810,763	22,635	\$212.54	\$0	0.000%
230483	A 3	LEXINGTON TELEPHONE COMPANY	\$5,807,602	23,788	\$244.14	\$0	0.000%
230485	A 3	MEBANE HOME TELEPHONE CO.	\$1,422,848	5,828	\$244.14	\$0	0.000%
230491	A 2	NORTH STATE TELEPHONE CO. - NC	\$20,490,426	83,929	\$244.14	\$0	0.000%
230494	A 3	PINEVILLE TELEPHONE CO.	\$324,950	1,331	\$244.14	\$0	0.000%
230495	A 3	RANDOLPH TEL. CO.	\$755,369	3,094	\$244.14	\$0	0.000%
230496	A 3	RANDOLPH TELEPHONE MEMB. CORP.	\$1,524,654	6,245	\$244.14	\$0	0.000%
230497	A 3	PIEDMONT TELEPHONE MEMB. CORP.	\$576,415	2,361	\$244.14	\$0	0.000%
230498	A 3	SALUDA MOUNTAIN TEL. CO.	\$240,722	986	\$244.14	\$0	0.000%
230499	A 2	SANDHILL TELEPHONE COMPANY	\$927,244	3,798	\$244.14	\$0	0.000%
230500	A 2	SERVICE TELEPHONE COMPANY	\$237,060	971	\$244.14	\$0	0.000%
230501	A 3	SKYLINE TEL. MEMB. CORP.	\$5,531,480	22,657	\$244.14	\$0	0.000%
230502	C 3	STAR TEL. MEMB. CORP.	\$2,827,652	11,795	\$239.73	\$0	0.000%
230503	A 3	SURRY TEL. MEMB. CORP.	\$2,270,014	9,298	\$244.14	\$0	0.000%
230505	A 3	TRI-COUNTY TEL. MEMB. CORP.-NC	\$640,868	2,625	\$244.14	\$0	0.000%
230509	C 2	CONTINENTAL TELEPHONE CO OF N.C.	\$31,601,927	78,589	\$402.12	\$4,680,466	1.380%
230510	C 3	WILKES TELEPHONE MEMB. CORP.	\$2,176,771	7,224	\$301.32	\$108,541	0.032%
230511	A 3	YADKIN VALLEY TEL. MEMB. CORP.	\$4,544,178	18,613	\$244.14	\$0	0.000%
235193	C 1	SOUTHERN BELL-NORTH CAROLINA	\$454,959,613	1,553,541	\$292.85	\$2,767,245	0.816%
STATE TOTAL: NORTH DAKOTA			\$90,145,729	339,742	\$265.34	\$1,299,179	0.383%
381447	C 2	CONTEL OF NORTH DAKOTA, INC.	\$2,712,285	10,073	\$269.26	\$20,146	0.006%
381509	A 3	WOLVERTON TEL. CO.	\$102,127	281	\$363.44	\$11,640	0.003%
381601	A 3	ABSAKARA COOP TELEPHONE CO.	\$18,238	32	\$569.94	\$4,423	0.001%
381604	A 3	BEK TELEPHONE MUTUAL AID CORP.	\$1,024,363	3,673	\$278.89	\$21,717	0.006%
381607	C 3	CONSOLIDATED TELEPHONE COOPERATIVE	\$2,400,715	4,055	\$592.04	\$602,497	0.178%
381610	A 3	DAKOTA CENTRAL RURAL TEL COOP ASSN	\$672,397	2,391	\$281.22	\$16,393	0.005%
381611	A 3	DICKEY RURAL TEL COOP.	\$982,272	2,654	\$370.11	\$118,236	0.035%
381614	A 3	GILBY TELEPHONE COMPANY	\$79,386	274	\$289.73	\$2,826	0.001%
381615	A 3	GRIGGS COUNTY TELEPHONE COMPANY	\$372,558	1,526	\$244.14	\$0	0.000%
381616	C 3	INTER-COMMUNITY TELEPHONE COMPANY	\$602,042	1,226	\$491.06	\$124,125	0.037%
381617	C 3	MIDSTATE TELEPHONE COMPANY	\$384,791	1,366	\$281.69	\$9,630	0.003%
381622	A 3	MOORE & LIBERTY TELEPHONE COMPANY	\$188,232	771	\$244.14	\$0	0.000%
381623	A 3	NOONAN FARMERS TELEPHONE COMPANY	\$65,200	203	\$321.18	\$4,688	0.001%
381624	A 3	NORTHERN STATES POWER CO. TEL. DEPT.	\$5,234,606	21,441	\$244.14	\$0	0.000%
381625	A 3	NORTHWEST COMMUNICATIONS COOPERATIVE	\$1,032,044	3,560	\$289.90	\$36,957	0.011%
381630	C 3	POLAR COMMUNICATIONS MUTUAL AID CORP	\$1,921,786	8,167	\$235.31	\$0	0.000%
381631	A 3	RED RIVER RURAL TEL. ASSN.	\$523,565	1,750	\$299.18	\$24,773	0.007%
381632	C 3	RESERVATION TELEPHONE COOPERATIVE	\$1,746,691	4,194	\$416.47	\$277,984	0.082%
381634	C 3	SOURIS RIVER TEL. MUTUAL AID COOP.	\$2,927,580	11,481	\$254.99	\$0	0.000%
381636	A 3	UNITED TELEPHONE MUTUAL AID CORP.	\$1,081,052	4,428	\$244.14	\$0	0.000%
381637	C 3	WEST RIVER MUTUAL AID TELEPHONE CORP	\$1,791,471	8,661	\$206.84	\$0	0.000%
381638	A 3	YORK TELEPHONE COMPANY	\$21,356	40	\$533.91	\$4,853	0.001%
382247	A 3	NEMONT TELEPHONE COOPERATIVE - ND	\$117,141	284	\$412.47	\$18,291	0.005%
385144	C 1	NORTHWESTERN BELL-NORTH DAKOTA	\$64,143,831	247,211	\$259.47	\$0	0.000%
STATE TOTAL: OHIO			\$1,099,764,351	5,156,325	\$213.28	\$865,517	0.255%
300585	A 2	ARCADIA TEL. CO.	\$166,748	683	\$244.14	\$0	0.000%
300586	A 3	THE ARTHUR MUTUAL TELEPHONE COMPANY	\$259,521	1,063	\$244.14	\$0	0.000%
300588	A 3	AYERSVILLE TELEPHONE COMPANY	\$246,826	1,011	\$244.14	\$0	0.000%
300589	A 3	BASCOM MUTUAL TELEPHONE COMPANY	\$122,314	501	\$244.14	\$0	0.000%
300590	A 3	BENTON RIDGE TELEPHONE COMPANY	\$273,801	1,018	\$268.96	\$1,909	0.001%
300591	A 3	BUCKLAND MUTUAL TELEPHONE COMPANY	\$164,306	673	\$244.14	\$0	0.000%
300594	A 3	THE CHAMPAIGN TELEPHONE COMPANY	\$2,150,873	8,810	\$244.14	\$0	0.000%
300597	C 3	CHILLICOTHE TELEPHONE COMPANY	\$7,765,782	25,017	\$310.42	\$468,287	0.138%
300598	A 3	MCCLURE TELEPHONE COMPANY	\$153,320	628	\$244.14	\$0	0.000%

TABLE 3.4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
OHIO (CONT.)							
300604	A 3	COLUMBUS GROVE TELEPHONE COMPANY	\$353,759	1,449	\$244.14	\$0	0.000%
300606	A 3	CONNEAUT TELEPHONE COMPANY	\$1,499,752	6,143	\$244.14	\$0	0.000%
300607	C 2	CONTINENTAL TELEPHONE CO OF OHIO	\$597,920	2,003	\$298.51	\$27,804	0.008%
300609	A 3	DOYLESTOWN TELEPHONE COMPANY	\$745,115	3,052	\$244.14	\$0	0.000%
300611	A 2	ELYRIA TELEPHONE COMPANY	\$9,962,621	40,807	\$244.14	\$0	0.000%
300612	A 3	THE FARMERS MUTUAL TEL CO - OKOLONA,	\$99,565	388	\$256.61	\$0	0.000%
300613	C 2	FAYETTEVILLE TELEPHONE COMPANY	\$421,426	1,182	\$356.54	\$45,138	0.013%
300614	A 3	FORT JENNINGS TELEPHONE COMPANY	\$127,197	521	\$244.14	\$0	0.000%
300615	C 2	GTE NORTH INC. - OHIO	\$146,704,331	621,570	\$236.02	\$0	0.000%
300618	A 3	GERMANTOWN INDEPENDENT TEL. CO.	\$817,625	3,349	\$244.14	\$0	0.000%
300619	A 3	THE GLANDORF TELEPHONE CO. INC.	\$168,945	692	\$244.14	\$0	0.000%
300620	A 2	HARLAN TELEPHONE COMPANY	\$196,638	687	\$286.23	\$6,110	0.002%
300625	A 3	KALIDA TELEPHONE CO. INC.	\$213,134	873	\$244.14	\$0	0.000%
300630	C 2	CENTRAL TELEPHONE COMPANY OF OHIO	\$10,069,167	59,420	\$169.46	\$0	0.000%
300633	A 3	MIDDLE POINT HOME TELEPHONE COMPANY	\$129,882	532	\$244.14	\$0	0.000%
300634	A 3	MINFORD TELEPHONE COMPANY INC.	\$521,239	2,135	\$244.14	\$0	0.000%
300637	A 2	ALLTEL OHIO INC - NEWARK	\$9,322,974	38,187	\$244.14	\$0	0.000%
300639	A 3	THE NEW KNOXVILLE TELEPHONE COMPANY	\$229,003	938	\$244.14	\$0	0.000%
300644	A 3	THE NOVA TELEPHONE COMPANY	\$195,912	757	\$258.80	\$0	0.000%
300645	A 3	OAKWOOD MUTUAL TELEPHONE COMPANY	\$243,896	999	\$244.14	\$0	0.000%
300649	A 3	ORWELL TELEPHONE COMPANY	\$1,215,329	4,978	\$244.14	\$0	0.000%
300650	A 3	THE OTTOVILLE MUTUAL TEL. COMPANY	\$263,183	1,078	\$244.14	\$0	0.000%
300651	A 3	PATTERSONVILLE TELEPHONE CO- OH	\$85,880	309	\$277.93	\$1,705	0.001%
300654	A 3	RIDGEVILLE TELEPHONE COMPANY	\$135,742	556	\$244.14	\$0	0.000%
300656	A 3	SHERWOOD MUTUAL TEL. ASSOC.	\$233,642	957	\$244.14	\$0	0.000%
300658	A 3	SYCAMORE TELEPHONE COMPANY	\$339,355	1,390	\$244.14	\$0	0.000%
300659	A 3	TELEPHONE SERVICE COMPANY	\$1,774,410	7,268	\$244.14	\$0	0.000%
300661	C 2	UNITED TELEPHONE CO. OF OHIO	\$117,737,515	429,594	\$274.07	\$260,441	0.077%
300662	A 3	VANLUE TELEPHONE COMPANY	\$140,869	577	\$244.14	\$0	0.000%
300663	A 3	VAUGHNSVILLE TELEPHONE COMPANY INC.	\$79,939	277	\$288.59	\$2,728	0.001%
300664	A 3	WABASH MUTUAL TELEPHONE COMPANY	\$157,470	645	\$244.14	\$0	0.000%
300665	C 2	ALLTEL OHIO INC - WESTERN OHIO	\$4,608,435	16,955	\$271.80	\$51,395	0.015%
300666	A 2	WESTERN RESERVE TELEPHONE COMPANY	\$27,160,331	111,249	\$244.14	\$0	0.000%
300682	C 3	C, C & S TELCO, INC.- OHIO	\$86,833	465	\$186.74	\$0	0.000%
305062	C 2	CINCINNATI BELL-OHIO	\$96,970,266	618,701	\$156.73	\$0	0.000%
305150	C 1	OHIO BELL TEL CO	\$654,851,560	3,136,238	\$208.80	\$0	0.000%
STATE TOTAL:			\$426,295,226	1,469,070	\$290.18	\$15,476,611	4.563%
431704	A 3	LAVACA TELEPHONE CO.- OK	\$267,333	1,095	\$244.14	\$0	0.000%
431788	C 3	KANOKLA TELEPHONE ASSN. INC. - OK	\$607,869	1,254	\$484.74	\$123,245	0.036%
431831	C 3	SOUTH CENTRAL TEL. ASSN., INC.-OK	\$123,393	396	\$311.60	\$7,603	0.002%
431965	C 2	ALLTEL OKLAHOMA, INC.	\$5,756,478	10,618	\$542.14	\$1,329,241	0.392%
431966	C 3	ATLAS TELEPHONE CO.	\$608,578	1,409	\$431.92	\$103,597	0.031%
431968	A 3	BEGGS TELEPHONE COMPANY	\$315,185	1,291	\$244.14	\$0	0.000%
431969	A 3	BIXBY TELEPHONE CO.	\$1,398,434	5,728	\$244.14	\$0	0.000%
431974	C 3	CANADIAN VALLEY TELEPHONE CO.	\$387,814	811	\$478.19	\$77,217	0.023%
431976	C 3	CARNEGIE TELEPHONE CO. INC.	\$450,434	1,530	\$294.40	\$18,685	0.006%
431977	A 3	CENTRAL OKLAHOMA TELEPHONE CO.	\$581,163	2,053	\$283.08	\$15,628	0.005%
431979	C 3	CHEROKEE TELEPHONE CO.	\$1,032,052	4,144	\$249.05	\$0	0.000%
431980	C 3	CHICKASAW TELEPHONE CO.	\$1,866,090	6,924	\$269.51	\$14,540	0.004%
431981	C 3	CHOUTEAU TELEPHONE CO.	\$1,385,828	2,696	\$514.03	\$301,986	0.089%
431982	A 3	CIMARRON TEL. CO.	\$1,524,654	6,245	\$244.14	\$0	0.000%
431984	C 2	OKLAHOMA COMMUNICATION SYSTEMS INC.	\$6,127,176	12,479	\$491.00	\$1,263,109	0.372%
431985	C 3	CROSS TELEPHONE CO.	\$2,199,445	7,225	\$304.42	\$117,632	0.035%
431988	C 3	DOBSON TELEPHONE CO.	\$2,864,398	4,098	\$698.97	\$814,298	0.240%
431994	C 3	GRAND TELEPHONE CO. INC.	\$820,836	2,163	\$379.49	\$105,879	0.031%
431995	C 3	HINTON TELEPHONE CO.	\$1,196,257	3,139	\$381.09	\$156,008	0.046%
432006	C 3	MCLLOUD TELEPHONE CO.	\$1,807,021	5,764	\$313.50	\$115,100	0.034%
432008	A 3	MEDICINE PARK TELEPHONE CO.	\$135,254	554	\$244.14	\$0	0.000%

TABLE 3.4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
OKLAHOMA (CONT.)							
432010	C 3	MID-AMERICA TEL., INC.	\$374,713	1,413	\$265.19	\$486	0.000%
432011	C 2	OKLAHOMA ALLTEL, INC.	\$4,641,881	9,891	\$469.30	\$900,514	0.265%
432013	C 3	OKLAHOMA TELEPHONE & TELEGRAPH INC.	\$823,122	1,735	\$474.42	\$162,125	0.048%
432014	C 3	OKLAHOMA WESTERN TELEPHONE CO.	\$1,457,664	2,475	\$588.96	\$364,165	0.107%
432016	C 3	PANHANDLE TELEPHONE COOPERATIVE INC.	\$2,235,636	4,213	\$530.65	\$504,744	0.149%
432017	A 3	PINE TELEPHONE CO INC- OK	\$1,252,926	5,132	\$244.14	\$0	0.000%
432018	C 3	PIONEER TEL. COOP. INC.	\$11,009,454	34,812	\$316.25	\$734,098	0.216%
432020	C 3	POTTAWATOMIE TELEPHONE CO.	\$1,637,292	1,724	\$949.71	\$545,193	0.161%
432022	A 3	SALINA-SPAVINAW TEL. CO., INC.	\$1,393,795	5,709	\$244.14	\$0	0.000%
432023	A 3	SHIDLER TEL. CO.	\$302,639	907	\$333.67	\$25,543	0.008%
432025	A 3	SOUTHWEST OKLAHOMA TEL. CO.	\$305,596	920	\$332.17	\$25,352	0.007%
432029	A 3	TERRAL TEL. CO.	\$83,196	294	\$282.98	\$2,227	0.001%
432030	C 3	TOTAH TELEPHONE CO. INC.	\$1,262,160	1,660	\$760.34	\$377,598	0.111%
432032	C 3	VALLIANT TELEPHONE COMPANY	\$649,228	1,734	\$374.41	\$80,750	0.024%
432034	C 2	WYANDOTTE TELEPHONE COMPANY	\$214,419	359	\$597.27	\$54,220	0.016%
432080	C 2	GTE SOUTHWEST INC. - OKLAHOMA	\$41,955,007	99,230	\$422.81	\$6,872,298	2.026%
432141	A 3	SANTA ROSA TELEPHONE COOP. INC.	\$205,720	657	\$313.12	\$13,021	0.004%
435215	C 1	SOUTHWESTERN BELL-OKLAHOMA	\$325,035,086	1,214,589	\$267.61	\$250,509	0.074%
STATE TOTAL:		OREGON	\$342,220,099	1,393,045	\$245.66	\$6,832,026	2.014%
532226	C 3	MIDVALE TEL. EXCH. INC. - OR	\$160,776	171	\$940.21	\$53,316	0.016%
532304	C 2	C P NATIONAL CORP. - OREGON	\$3,885,060	9,364	\$414.89	\$613,752	0.181%
532359	C 3	BEAVER CREEK COOPERATIVE TEL. CO.	\$862,859	3,118	\$276.73	\$15,687	0.005%
532361	C 2	TELEPHONE UTILITIES OF OREGON INC.	\$16,140,436	34,788	\$463.97	\$3,080,477	0.908%
532362	C 3	CANBY TELEPHONE ASSOCIATION	\$1,272,733	7,218	\$176.33	\$0	0.000%
532363	C 3	CLEAR CREEK MUTUAL TELEPHONE CO.	\$996,583	2,700	\$369.10	\$119,003	0.035%
532364	C 3	COLTON TELEPHONE COMPANY	\$342,804	951	\$360.47	\$38,070	0.011%
532369	A 3	EAGLE TELEPHONE SYSTEM INC.	\$87,184	316	\$275.90	\$1,483	0.000%
532371	C 3	CASCADE UTILITIES INC.	\$1,716,998	6,956	\$246.84	\$0	0.000%
532373	A 3	GERVAIS TELEPHONE COMPANY	\$179,687	736	\$244.14	\$0	0.000%
532375	C 3	RTI/HALSEY TEL. CO.	\$263,970	566	\$466.38	\$50,756	0.015%
532376	C 3	HELIX TELEPHONE COMPANY	\$154,468	235	\$657.31	\$42,106	0.012%
532377	C 2	HOME TELEPHONE COMPANY	\$342,347	535	\$639.90	\$91,492	0.027%
532378	C 3	TRANS-CASCADES TELEPHONE COMPANY	\$182,060	88	\$2,068.86	\$73,994	0.022%
532383	C 3	MOLALLA TELEPHONE COMPANY	\$1,656,339	4,257	\$389.09	\$227,537	0.067%
532384	A 3	MONITOR COOPERATIVE TELEPHONE CO	\$131,103	537	\$244.14	\$0	0.000%
532385	C 3	MONROE TELEPHONE COMPANY	\$216,168	671	\$322.16	\$15,760	0.005%
532386	A 3	MT. ANGEL TELEPHONE COMPANY	\$332,519	1,362	\$244.14	\$0	0.000%
532387	C 3	NEHALEM TELEPHONE AND TELEGRAPH	\$450,201	1,833	\$245.61	\$0	0.000%
532388	C 3	NORTH STATE TELEPHONE COMPANY - OR	\$165,114	375	\$440.30	\$29,044	0.009%
532389	C 3	OREGON TELEPHONE CORPORATION	\$376,167	1,285	\$292.74	\$14,826	0.004%
532391	A 3	PEOPLES TELEPHONE COMPANY - OR	\$274,658	1,125	\$244.14	\$0	0.000%
532392	C 3	PINE TELEPHONE SYSTEM INC. - OR	\$322,767	636	\$507.50	\$69,292	0.020%
532393	C 3	PIONEER TELEPHONE COOPERATIVE	\$2,268,651	9,955	\$227.89	\$0	0.000%
532396	A 3	ST. PAUL COOP. TEL. ASSN.	\$107,910	440	\$245.25	\$0	0.000%
532397	C 3	SCIO MUTUAL TEL. ASSOCIATION	\$418,683	1,298	\$322.56	\$30,698	0.009%
532399	A 3	STAYTON COOP. TEL CO	\$1,110,349	4,548	\$244.14	\$0	0.000%
532400	C 2	UNITED TELEPHONE CO OF THE NW - OR	\$15,519,873	46,235	\$335.67	\$1,339,659	0.395%
532404	C 2	ASOTIN TELEPHONE COMPANY - OREGON	\$196,220	88	\$2,229.78	\$80,632	0.024%
532416	C 2	GTE NORTHWEST INC. - OREGON	\$69,781,117	257,638	\$270.85	\$104,665	0.031%
532449	C 2	CONTEL OF THE NORTHWEST INC. - OR	\$7,345,741	20,968	\$350.33	\$739,777	0.218%
532456	C 1	MALHEUR HOME TELEPHONE COMPANY	\$2,581,011	10,011	\$257.82	\$0	0.000%
535163	C 1	PACIFIC NORTHWEST BELL-OREGON	\$212,377,543	962,041	\$220.76	\$0	0.000%
STATE TOTAL:		PENNSYLVANIA	\$1,095,126,429	6,209,971	\$176.35	\$1,070,447	0.316%
170145	A 3	THE BENTLEYVILLE TEL. CO.	\$751,463	3,078	\$244.14	\$0	0.000%
170149	A 2	BREEZEWOOD TELEPHONE COMPANY	\$805,418	3,299	\$244.14	\$0	0.000%
170150	A 2	BROOKVILLE TELEPHONE COMPANY	\$6,803,938	27,869	\$244.14	\$0	0.000%

TABLE 3.4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
PENNSYLVANIA (CONT.)							
170151	A 3	BUFFALO VALLEY TELEPHONE COMPANY	\$3,487,052	14,283	\$244.14	\$0	0.000%
170152	A 2	CANTON TELEPHONE COMPANY	\$709,715	2,907	\$244.14	\$0	0.000%
170156	A 3	CITIZENS TEL CO OF KECKSBURG	\$1,097,898	4,497	\$244.14	\$0	0.000%
170157	A 2	CITIZENS UTILITIES CO. OF PA	\$791,990	3,244	\$244.14	\$0	0.000%
170161	A 2	C-TEC CORPORATION	\$42,636,854	174,641	\$244.14	\$0	0.000%
170162	A 3	THE CONESTOGA TEL. AND TEL. CO.	\$8,587,625	35,175	\$244.14	\$0	0.000%
170165	A 3	DENVER AND EPHRATA TEL. & TEL. CO.	\$9,397,193	38,491	\$244.14	\$0	0.000%
170168	A 2	ENTERPRISE TELEPHONE COMPANY	\$4,528,309	18,548	\$244.14	\$0	0.000%
170169	C 2	GTE NORTH INC. - PENNSYLVANIA	\$82,382,071	410,788	\$200.55	\$0	0.000%
170170	C 2	CONTINENTAL TELEPHONE CO OF PA	\$12,068,869	47,577	\$253.67	\$0	0.000%
170171	A 3	HICKORY TELEPHONE COMPANY	\$249,511	1,022	\$244.14	\$0	0.000%
170175	A 3	IRONTON TELEPHONE COMPANY	\$640,135	2,622	\$244.14	\$0	0.000%
170176	A 2	ALLTEL PENNSYLVANIA INC.	\$29,979,415	122,796	\$244.14	\$0	0.000%
170177	C 3	LACKAWAXEN TELEPHONE COMPANY	\$673,863	2,375	\$283.73	\$18,703	0.006%
170178	A 3	LAKEWOOD TELEPHONE COMPANY	\$320,800	1,314	\$244.14	\$0	0.000%
170179	A 3	LAUREL HIGHLAND TELEPHONE COMPANY	\$1,120,847	4,591	\$244.14	\$0	0.000%
170183	C 2	MAHANAY & MAHANTONGO TEL. CO.	\$1,125,865	3,456	\$325.77	\$86,249	0.025%
170185	A 3	MARIANNA - SCENERY HILL TEL. CO.	\$575,926	2,359	\$244.14	\$0	0.000%
170189	C 3	ARMSTRONG TELEPHONE COMPANY - PA	\$326,903	1,339	\$244.14	\$0	0.000%
170190	A 2	MURRAYSVILLE TELEPHONE COMPANY	\$5,772,934	23,646	\$244.14	\$0	0.000%
170191	A 3	THE NORTH EASTERN PA. TEL. CO.	\$1,878,413	7,694	\$244.14	\$0	0.000%
170192	C 3	NORTH PENN TELEPHONE COMPANY	\$979,252	3,919	\$249.87	\$0	0.000%
170193	A 3	NORTH PITTSBURGH TEL. CO.	\$9,910,375	40,593	\$244.14	\$0	0.000%
170194	C 2	OSWAYO RIVER TELEPHONE COMPANY	\$468,661	1,600	\$292.91	\$18,570	0.005%
170195	A 3	OTTO TELEPHONE COMPANY	\$114,746	470	\$244.14	\$0	0.000%
170196	A 3	PALMERTON TELEPHONE COMPANY	\$2,087,397	8,550	\$244.14	\$0	0.000%
170197	A 3	PENNSYLVANIA TELEPHONE COMPANY	\$244,384	1,001	\$244.14	\$0	0.000%
170200	A 3	PYMATUNING IND. TELEPHONE COMPANY	\$425,048	1,741	\$244.14	\$0	0.000%
170201	C 2	QUAKER STATE TELEPHONE COMPANY	\$10,305,216	30,580	\$336.99	\$902,492	0.266%
170204	A 3	SOUTH CANAAN TEL. CO.	\$490,721	2,010	\$244.14	\$0	0.000%
170206	C 2	SUGAR VALLEY TELEPHONE COMPANY	\$320,206	853	\$375.39	\$40,112	0.012%
170209	C 2	UNITED TELEPHONE COMPANY OF PA	\$59,422,121	278,730	\$213.19	\$0	0.000%
170210	A 3	VENUS TELEPHONE CORPORATION	\$253,906	1,040	\$244.14	\$0	0.000%
170215	A 3	YUKON-WALTZ TELEPHONE COMPANY	\$238,769	978	\$244.14	\$0	0.000%
170277	A 3	WEST SIDE TELEPHONE COMPANY-PA	\$17,746	31	\$572.46	\$4,321	0.001%
175000	C 1	BELL OF PENNSYLVANIA	\$793,134,874	4,880,264	\$162.52	\$0	0.000%
STATE TOTAL:		PUERTO RICO	\$202,682,003	835,592	\$242.56	\$617,571	0.182%
633200	C 2	PUERTO RICO COMMUNICATION AUTHORITY	\$27,406,703	97,930	\$279.86	\$617,571	0.182%
633201	C 2	PUERTO RICO TEL. CO.	\$175,275,300	737,662	\$237.61	\$0	0.000%
STATE TOTAL:		RHODE ISLAND	\$99,327,661	514,739	\$192.97	\$0	0.000%
585114	C 1	NEW ENGLAND TEL.-RI	\$99,327,661	514,739	\$192.97	\$0	0.000%
STATE TOTAL:		SOUTH CAROLINA	\$473,739,060	1,495,955	\$316.68	\$6,751,055	1.990%
240479	C 2	GTE SOUTH INC. - SOUTH CAROLINA	\$36,556,470	129,793	\$281.65	\$912,607	0.269%
240506	C 2	UNITED TELEPHONE CO. OF THE CAROLINAS	\$17,289,951	64,711	\$267.19	\$74,822	0.022%
240512	C 3	BLUFFTON TELEPHONE COMPANY, INC.	\$942,725	2,553	\$369.26	\$112,715	0.033%
240515	A 3	CHESNEE TELEPHONE COMPANY	\$880,613	3,607	\$244.14	\$0	0.000%
240516	A 3	CHESTER TELEPHONE COMPANY- SC	\$2,939,690	12,041	\$244.14	\$0	0.000%
240517	A 2	ALLTEL SOUTH CAROLINA INC.	\$7,154,523	29,305	\$244.14	\$0	0.000%
240520	C 3	FARMERS TEL COOP INC - SC	\$10,983,798	36,345	\$302.21	\$559,259	0.165%
240521	A 3	FORT MILL TELEPHONE COMPANY	\$2,270,502	9,300	\$244.14	\$0	0.000%
240523	C 3	HARGRAY TEL. CO. INC.	\$7,809,219	30,116	\$259.30	\$0	0.000%
240524	A 3	HEATH SPRINGS TEL. CO.	\$226,318	927	\$244.14	\$0	0.000%
240526	C 2	CONTINENTAL TELEPHONE CO OF S.C.	\$3,621,679	13,458	\$269.11	\$26,075	0.008%
240527	A 3	HOME TELEPHONE COMPANY INC - SC	\$3,245,109	13,292	\$244.14	\$0	0.000%

TABLE 3.4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
SOUTH CAROLINA (CONT.)							
240528	C 3	HORRY TEL. COOP. INC.	\$8,065,014	39,157	\$205.97	\$0	0.000%
240531	A 3	LANCASTER TEL. CO.	\$3,883,291	15,906	\$244.14	\$0	0.000%
240532	A 3	LOCKHART TELEPHONE COMPANY, INC.	\$155,273	636	\$244.14	\$0	0.000%
240533	C 2	MCCELLELLANVILLE TEL. CO. INC.	\$310,611	1,126	\$275.85	\$5,264	0.002%
240535	A 3	NORWAY TELEPHONE CO. INC.	\$143,798	589	\$244.14	\$0	0.000%
240536	A 3	PALMETTO RURAL TEL. COOP., INC.	\$2,072,016	8,487	\$244.14	\$0	0.000%
240538	A 3	PIEDMONT RURAL TEL. COOP.	\$2,136,469	8,751	\$244.14	\$0	0.000%
240539	C 3	POND BRANCH TEL. CO. INC.	\$1,855,017	7,303	\$254.01	\$0	0.000%
240540	A 3	RIDGE TEL. CO. INC.	\$314,208	1,287	\$244.14	\$0	0.000%
240541	A 3	RIDGEWAY TELEPHONE COMPANY, INC.	\$309,081	1,266	\$244.14	\$0	0.000%
240542	A 3	ROCK HILL TEL. CO.	\$8,099,345	33,175	\$244.14	\$0	0.000%
240544	A 2	ST. STEPHEN TELEPHONE COMPANY	\$835,691	3,423	\$244.14	\$0	0.000%
240546	A 3	SANDHILL TEL. COOP. INC.	\$2,338,129	9,577	\$244.14	\$0	0.000%
240550	A 3	WEST CAROLINA RURAL TEL. COOP.	\$1,970,698	8,072	\$244.14	\$0	0.000%
240551	C 2	WILLISTON TELEPHONE COMPANY	\$1,109,802	3,437	\$322.90	\$81,758	0.024%
245194	C 1	SOUTHERN BELL-SOUTH CAROLINA	\$346,220,020	1,008,315	\$343.36	\$4,978,555	1.468%
STATE TOTAL:			\$78,883,012	320,440	\$246.17	\$1,287,247	0.379%
SOUTH DAKOTA							
391640	A 3	ARMOUR INDEPENDENT TELEPHONE CO.	\$156,738	642	\$244.14	\$0	0.000%
391642	A 3	BALTIC TELECOM COOPERATIVE	\$272,949	1,118	\$244.14	\$0	0.000%
391643	C 2	CONTEL OF SOUTH DAKOTA, INC.	\$2,539,998	7,709	\$329.48	\$203,999	0.060%
391647	C 3	CHEYENNE RIVER SIOUX TRIBAL TEL AUTH	\$837,191	1,813	\$461.77	\$158,671	0.047%
391649	A 3	BERESFORD MUNICIPAL TEL. CO.	\$245,117	1,004	\$244.14	\$0	0.000%
391650	A 3	CITY OF BROOKINGS MUNICIPAL TEL. DEPT	\$2,471,918	10,125	\$244.14	\$0	0.000%
391652	A 3	DAKOTA COOP TELECOMMUNICATIONS CO INC	\$1,298,581	5,319	\$244.14	\$0	0.000%
391653	A 3	CITY OF FAITH MUNICIPAL TEL CO	\$88,412	323	\$273.72	\$1,231	0.000%
391654	A 3	INTERSTATE TELECOMMUNICATIONS COOP.,	\$1,597,427	6,238	\$256.08	\$0	0.000%
391657	A 3	SPLITROCK TELECOM COOPERATIVE INC.	\$650,389	2,664	\$244.14	\$0	0.000%
391659	C 3	GOLDEN WEST TELECOMM. COOP, INC.	\$4,159,406	11,699	\$355.54	\$441,272	0.130%
391660	A 3	MT. RUSHMORE TEL. CO.	\$82,249	289	\$284.60	\$2,379	0.001%
391661	A 3	HANSON COUNTY TELEPHONE COMPANY	\$125,244	513	\$244.14	\$0	0.000%
391664	A 3	JAMES VALLEY COOPERATIVE TEL CO	\$601,296	2,015	\$298.41	\$27,895	0.008%
391666	C 3	JEFFERSON TELEPHONE COMPANY - SD	\$118,042	466	\$253.31	\$0	0.000%
391667	C 3	KADOKA TELEPHONE COMPANY	\$107,223	513	\$209.01	\$0	0.000%
391668	C 3	KENNEBEC TELEPHONE COMPANY	\$183,487	265	\$692.40	\$51,841	0.015%
391669	A 3	MCCOOK COOPERATIVE TELEPHONE CO.	\$249,045	757	\$328.99	\$19,881	0.006%
391670	A 3	MIDSTATE TELEPHONE COMPANY	\$714,579	2,465	\$289.89	\$25,590	0.008%
391674	A 3	ROBERTS COUNTY TEL. COOP. ASSN.	\$148,522	403	\$368.54	\$17,656	0.005%
391676	A 3	SANBORN TEL. COOP.	\$644,697	2,409	\$267.62	\$3,207	0.001%
391677	A 3	SIOUX VALLEY TELEPHONE COMPANY	\$1,139,401	4,667	\$244.14	\$0	0.000%
391679	A 3	STOCKHOLM-STRANDBURG TEL. CO.	\$64,782	201	\$322.30	\$4,732	0.001%
391680	A 3	SULLY BUTTES TELEPHONE COOP. INC.	\$1,170,227	3,999	\$292.63	\$45,964	0.014%
391682	A 3	TRI-COUNTY MUTUAL TEL. CO.-SD	\$136,490	435	\$313.77	\$8,735	0.003%
391684	A 3	UNION TELEPHONE COMPANY	\$265,380	1,087	\$244.14	\$0	0.000%
391685	A 3	VALLEY TELECOMM. COOP. ASSN., INC.	\$562,503	1,953	\$288.02	\$18,785	0.006%
391686	A 3	VIVIAN TELEPHONE COMPANY	\$41,344	103	\$401.40	\$6,100	0.002%
391688	A 3	WESTERN TELEPHONE COMPANY	\$212,983	862	\$247.08	\$0	0.000%
391689	C 3	WEST RIVER COOPERATIVE TEL. CO.	\$946,109	1,506	\$628.23	\$249,309	0.073%
395145	C 1	NORTHWESTERN BELL-SOUTH DAKOTA	\$57,051,283	246,878	\$231.09	\$0	0.000%
STATE TOTAL:			\$566,243,961	2,318,040	\$244.28	\$1,722,271	0.508%
TENNESSEE							
290280	A 3	ARDMORE TELEPHONE COMPANY INC.	\$1,546,383	6,334	\$244.14	\$0	0.000%
290479	C 2	GTE SOUTH INC. - TENNESSEE	\$15,552,775	48,457	\$320.96	\$1,114,511	0.329%
290552	C 2	ADAMSVILLE TELEPHONE COMPANY INC.	\$2,036,045	5,585	\$364.56	\$234,291	0.069%
290553	A 3	BEN LOMAND RURAL TEL. COOP. INC.	\$5,458,970	22,360	\$244.14	\$0	0.000%
290554	A 3	BLEDSOE TELEPHONE COOPERATIVE	\$1,655,757	6,782	\$244.14	\$0	0.000%
290557	A 2	CLAIBORNE TELEPHONE COMPANY INC.	\$1,358,395	5,564	\$244.14	\$0	0.000%
290559	A 2	CONCORD TEL. EXCHANGE INC.	\$2,571,771	10,534	\$244.14	\$0	0.000%

TABLE 3.4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL

TENNESSEE (CONT.)							

290561	A 3	CROCKETT TEL., INC.	\$872,068	3,572	\$244.14	\$0	0.000%
290562	A 3	DEKALB TELEPHONE COOP, INC.	\$3,075,187	12,596	\$244.14	\$0	0.000%
290565	A 3	HIGHLAND TEL COOP INC - TENNESSEE	\$3,967,275	16,250	\$244.14	\$0	0.000%
290566	A 3	HUMPHREY'S COUNTY TEL. COMPANY	\$306,396	1,255	\$244.14	\$0	0.000%
290567	C 2	UNITED INTER-MOUNTAIN TEL. COMPANY-TN	\$38,308,788	161,332	\$237.45	\$0	0.000%
290570	A 3	LORETTO TELEPHONE COMPANY INC.	\$1,097,653	4,496	\$244.14	\$0	0.000%
290571	C 3	MILLINGTON TELEPHONE COMPANY INC.	\$3,569,759	16,769	\$212.88	\$0	0.000%
290573	A 3	NORTH CENTRAL TEL COOP, INC.	\$3,287,589	13,466	\$244.14	\$0	0.000%
290574	A 3	OOLEWAH-COLLEGE DALE TEL. CO.	\$1,060,300	4,343	\$244.14	\$0	0.000%
290575	C 2	TENNESSEE TELEPHONE COMPANY	\$10,118,664	34,802	\$290.75	\$373,469	0.110%
290576	A 3	PEOPLES TEL. CO. INC.	\$756,346	3,098	\$244.14	\$0	0.000%
290577	A 2	ALLTEL TENNESSEE INC.	\$3,397,452	13,916	\$244.14	\$0	0.000%
290578	A 2	TELLICO TEL. CO., INC.	\$1,304,928	5,345	\$244.14	\$0	0.000%
290579	C 3	TWIN LAKES TEL. COOP. CORP.	\$5,817,752	23,423	\$248.38	\$0	0.000%
290581	A 3	UNITED TEL. CO.-TN	\$1,747,798	7,159	\$244.14	\$0	0.000%
290583	A 3	WEST TENNESSEE TEL. CO., INC.	\$903,074	3,699	\$244.14	\$0	0.000%
290584	A 3	YORKVILLE TELEPHONE COOPERATIVE INC.	\$428,208	1,738	\$246.38	\$0	0.000%
295185	C 1	SOUTH CENTRAL BELL-TENNESSEE	\$456,044,628	1,885,165	\$241.91	\$0	0.000%

STATE TOTAL:		TEXAS	\$2,293,138,853	7,987,375	\$287.10	\$44,784,787	13.203%

440425	C 3	CAMERON TELEPHONE COMPANY - TEXAS	\$348,825	984	\$354.50	\$36,636	0.011%
442038	A 3	BLOSSOM TELEPHONE COMPANY	\$270,263	1,107	\$244.14	\$0	0.000%
442039	C 3	BIG BEND TELEPHONE COMPANY INC.	\$3,232,987	2,609	\$1,239.17	\$1,179,072	0.348%
442040	C 3	BRAZORIA TEL. CO.	\$2,479,568	5,255	\$471.85	\$484,741	0.143%
442041	C 3	BRAZOS TELEPHONE COOPERATIVE INC.	\$864,456	1,133	\$762.98	\$259,124	0.076%
442043	A 3	BYERS AND PETROLIA TELEPHONE CO.	\$197,918	769	\$257.37	\$0	0.000%
442046	C 3	CAP ROCK TELEPHONE COMPANY INC.	\$967,151	2,217	\$436.24	\$167,494	0.049%
442052	C 3	CENTRAL TEXAS TELEPHONE CO-OP. INC.	\$3,281,300	3,516	\$933.25	\$1,084,774	0.320%
442057	A 3	COLEMAN COUNTY TELEPHONE CO-OP. INC.	\$511,873	1,835	\$278.95	\$10,895	0.003%
442059	C 3	COLORADO VALLEY TELEPHONE CO-OP. INC.	\$2,099,886	4,841	\$433.77	\$360,140	0.106%
442060	A 3	COMANCHE COUNTY TEL COMPANY INC.	\$1,166,501	4,778	\$244.14	\$0	0.000%
442061	A 3	COMMUNITY TELEPHONE COMPANY, INC.	\$446,415	1,488	\$300.01	\$21,567	0.006%
442065	A 3	CUMBY TELEPHONE COOPERATIVE INC.	\$136,963	561	\$244.14	\$0	0.000%
442066	C 3	DELL TELEPHONE CO-OP. INC. - TX	\$1,295,032	456	\$2,839.98	\$548,249	0.162%
442068	C 3	EASTEX TELEPHONE COOPERATIVE INC.	\$8,614,947	20,161	\$427.31	\$1,438,739	0.424%
442069	A 3	ELECTRA TELEPHONE COMPANY, INC.	\$444,823	1,822	\$244.14	\$0	0.000%
442070	C 3	ETEX TELEPHONE COOPERATIVE INC.	\$2,798,459	9,061	\$308.85	\$163,834	0.048%
442071	C 3	FIVE AREA TELEPHONE CO-OP. INC.	\$1,414,961	1,447	\$977.86	\$476,687	0.141%
442072	C 3	FORT BEND TELEPHONE COMPANY	\$6,332,875	17,142	\$369.44	\$758,319	0.224%
442076	C 3	GANADO TELEPHONE COMPANY INC.	\$501,911	1,275	\$393.66	\$70,874	0.021%
442080	C 2	GTE SOUTHWEST INC. - TEXAS	\$375,271,847	1,060,811	\$353.76	\$5,927,281	1.747%
442083	C 3	GUADALUPE VALLEY TEL CO-OP. INC.	\$5,315,723	15,208	\$349.53	\$530,854	0.156%
442084	C 2	UNITED TELEPHONE CO. OF TEXAS INC.	\$37,908,053	99,259	\$381.91	\$4,971,015	1.465%
442086	C 3	HILL COUNTRY TELEPHONE CO-OP. INC.	\$4,795,630	9,034	\$530.84	\$1,083,120	0.319%
442090	A 3	ALENCO COMMUNICATIONS, INC.	\$94,756	209	\$453.38	\$17,468	0.005%
442093	C 3	INDUSTRY TELEPHONE COMPANY	\$1,315,616	1,541	\$853.74	\$417,996	0.123%
442097	C 3	KERRVILLE TELEPHONE COMPANY	\$2,760,934	14,392	\$191.84	\$0	0.000%
442101	C 3	LAKE DALLAS TELEPHONE COMPANY, INC.	\$2,261,748	4,185	\$540.44	\$520,588	0.153%
442103	C 3	LA WARD TELEPHONE EXCHANGE INC.	\$535,808	871	\$615.16	\$138,854	0.041%
442104	C 3	LAKE LIVINGSTON TEL. CO.	\$501,146	944	\$530.88	\$113,197	0.033%
442105	A 3	LIPAN TELEPHONE COMPANY	\$210,000	843	\$249.11	\$0	0.000%
442107	A 3	LIVINGSTON TELEPHONE COMPANY	\$1,084,226	4,441	\$244.14	\$0	0.000%
442109	C 2	LUFKIN-CONROE TELEPHONE EXCHANGE, INC	\$17,052,703	59,737	\$285.46	\$512,618	0.151%
442112	C 3	MID-PLAINS RURAL TEL. CO-OP. INC.	\$1,237,975	2,026	\$611.04	\$319,070	0.094%
442114	C 2	CENTRAL TELEPHONE COMPANY OF TEXAS	\$36,783,452	123,833	\$297.04	\$1,645,431	0.485%
442116	C 3	MUENSTER TELEPHONE CORP. OF TEXAS	\$794,103	2,539	\$312.76	\$49,939	0.015%
442117	C 2	MUSTANG TELEPHONE COMPANY	\$931,695	2,340	\$398.16	\$135,018	0.040%
442121	C 2	ALLTEL TEXAS INC.	\$832,130	2,627	\$316.76	\$55,939	0.016%
442130	C 3	PEOPLES TELEPHONE COOPERATIVE - TX	\$2,398,705	6,821	\$351.66	\$244,874	0.072%

TABLE 3.4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
TEXAS (CONT.)							
442131	C 3	POKA-LAMBRO RURAL TEL. CO-OP. INC.	\$1,758,844	3,237	\$543.36	\$407,093	0.120%
442134	C 3	RIVIERA TELEPHONE COMPANY INC.	\$488,359	819	\$596.29	\$123,321	0.036%
442135	C 3	SOUTHWEST TEXAS TELEPHONE COMPANY	\$2,460,944	2,480	\$992.32	\$833,807	0.246%
442136	C 2	ROMAIN TELEPHONE COMPANY	\$516,818	838	\$616.73	\$134,211	0.040%
442140	A 3	SAN MARCOS TEL. CO., INC.	\$4,687,976	19,202	\$244.14	\$0	0.000%
442141	A 3	SANTA ROSA TEL. COOP., INC.	\$555,634	1,595	\$348.36	\$54,798	0.016%
442143	A 3	SOUTH PLAINS TEL. COOP., INC.	\$1,132,282	3,676	\$308.02	\$65,226	0.019%
442147	C 3	SUGAR LAND TEL. CO.	\$7,820,690	27,345	\$286.00	\$240,636	0.071%
442150	A 3	TATUM TEL. CO.	\$147,530	664	\$222.18	\$0	0.000%
442151	C 3	TAYLOR TEL. CO-OP., INC.	\$2,071,753	5,218	\$397.04	\$298,339	0.088%
442153	C 2	TEXAS-MIDLAND TELEPHONE COMPANY	\$5,861,108	9,425	\$621.87	\$1,532,152	0.452%
442154	C 2	CONTINENTAL TELEPHONE CO OF TEXAS	\$71,414,476	148,020	\$482.47	\$14,390,319	4.242%
442155	C 3	TRI-COUNTY TEL. CO. INC.-TX	\$556,797	772	\$721.24	\$161,459	0.048%
442156	C 2	TRINITY VALLEY TELEPHONE COMPANY INC.	\$2,812,194	5,090	\$552.49	\$661,923	0.195%
442159	C 3	VALLEY TELEPHONE CO-OP. INC. - TX	\$3,892,225	4,363	\$892.10	\$1,261,916	0.372%
442163	C 3	WATERWOOD COMMUNICATIONS INC.	\$221,128	380	\$581.92	\$54,658	0.016%
442166	C 3	WEST TEXAS RURAL TEL. CO-OP. INC.	\$1,170,236	1,749	\$669.09	\$323,040	0.095%
442168	C 3	WES-TEX TELEPHONE CO-OP.	\$1,195,567	3,044	\$392.76	\$167,934	0.050%
442170	C 3	XIT RURAL TELEPHONE CO-OP. INC.	\$840,621	1,005	\$836.44	\$264,459	0.078%
442262	C 3	E.N.M.R. TEL. COOP., INC.-TX	\$261,507	749	\$349.14	\$26,004	0.008%
445216	C 1	SOUTHWESTERN BELL-TEXAS	\$1,653,778,800	6,253,586	\$264.45	\$39,085	0.012%
STATE TOTAL: UTAH			\$142,817,011	701,519	\$203.58	\$1,431,798	0.422%
502177	C 2	CONTEL OF THE WEST - UTAH	\$5,734,205	13,799	\$415.55	\$908,664	0.268%
502275	C 2	NAVAJO COMMUNICATIONS CO. INC. - UT	\$249,025	297	\$838.47	\$78,436	0.023%
502277	C 3	CENTRAL UTAH TEL. CO.	\$207,368	735	\$282.13	\$5,310	0.002%
502278	C 3	EMERY COUNTY FARMERS UNION TEL ASSN	\$482,920	2,413	\$200.13	\$0	0.000%
502279	A 3	GUNNISON TEL. CO.	\$253,661	1,039	\$244.14	\$0	0.000%
502280	C 3	KAMAS-WOODLAND TEL. CO.	\$605,560	1,550	\$390.68	\$84,000	0.025%
502282	A 3	MANTI TELEPHONE COMPANY	\$229,736	941	\$244.14	\$0	0.000%
502283	A 3	SKYLINE TELECOM	\$132,568	543	\$244.14	\$0	0.000%
502284	A 3	BEEHIVE TELEPHONE CO., INC., UT	\$316,211	489	\$646.65	\$85,175	0.025%
502286	C 3	SOUTH CENTRAL UTAH TEL. ASSN. INC.	\$627,024	2,701	\$232.15	\$0	0.000%
502287	C 3	UINTAH BASIN TEL. ASSN. INC.	\$1,161,449	2,166	\$536.22	\$265,145	0.078%
502288	C 3	UTAH-WYOMING TELECOM - UT	\$125,878	429	\$293.42	\$5,068	0.001%
505107	C 1	MOUNTAIN BELL-UTAH	\$132,691,406	674,417	\$196.75	\$0	0.000%
STATE TOTAL: VERMONT			\$100,309,470	295,021	\$340.01	\$2,755,141	0.812%
140053	A 3	FRANKLIN TEL. CO. - VT	\$142,822	585	\$244.14	\$0	0.000%
140058	C 2	LUDLOW TEL. CO.	\$685,860	3,648	\$188.01	\$0	0.000%
140061	C 2	NORTHFIELD TEL. CO.	\$401,822	2,525	\$159.14	\$0	0.000%
140062	C 2	PERKINSVILLE TEL. CO.	\$196,389	734	\$267.56	\$959	0.000%
140064	A 3	SHOREHAM TEL. CO. INC.	\$591,577	2,294	\$257.88	\$0	0.000%
140068	C 3	TOPSHAM TEL. CO., INC.	\$249,687	1,008	\$247.71	\$0	0.000%
140069	C 3	WAITSFIELD/FAYSTON TEL. CO.	\$1,340,921	4,285	\$312.93	\$84,575	0.025%
140070	C 2	CONTINENTAL TEL CO OF VT, INC.	\$11,914,466	31,928	\$373.17	\$1,468,289	0.433%
145115	C 1	NEW ENGLAND TEL.-VT	\$84,785,926	248,014	\$341.86	\$1,201,318	0.354%
STATE TOTAL: VIRGIN ISLANDS			\$18,933,872	44,087	\$429.47	\$3,190,797	0.941%
643300	C 2	VIRGIN ISLANDS TELEPHONE CORPORATION	\$18,933,872	44,087	\$429.47	\$3,190,797	0.941%
STATE TOTAL: VIRGINIA			\$724,912,120	3,113,617	\$232.82	\$1,362,034	0.402%
190217	C 2	AMELIA TEL. CORP.	\$1,211,014	2,986	\$405.56	\$182,650	0.054%
190219	A 3	BUGGS ISLAND TELEPHONE COOP.	\$540,038	2,212	\$244.14	\$0	0.000%
190220	A 3	BURKE'S GARDEN TELEPHONE COMPANY INC.	\$37,382	89	\$420.02	\$6,047	0.002%
190225	A 3	CITIZENS TELEPHONE COOP - VIRGINIA	\$1,189,694	4,873	\$244.14	\$0	0.000%

TABLE 3.4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
VIRGINIA (CONT.)							
190226	A 3	CLIFTON FORGE WAYNESBORO TEL CO	\$6,182,357	25,323	\$244.14	\$0	0.000%
190233	C 2	CONTEL OF VIRGINIA, INC.	\$89,777,290	329,814	\$272.21	\$162,846	0.048%
190236	A 3	NORTH RIVER TELEPHONE COOPERATIVE	\$183,837	753	\$244.14	\$0	0.000%
190237	A 3	HIGHLAND TEL COOP - VIRGINIA	\$268,038	985	\$272.12	\$3,115	0.001%
190238	A 3	MOUNTAIN GROVE-WILLIAMSVILLE TEL. CO.	\$352,032	1,140	\$308.80	\$20,591	0.006%
190239	A 3	NEW HOPE TELEPHONE COMPANY - VA	\$167,968	688	\$244.14	\$0	0.000%
190243	A 3	PEMBROKE TELEPHONE COOPERATIVE	\$378,417	1,550	\$244.14	\$0	0.000%
190244	A 3	PEOPLES MUTUAL TEL CO - VA	\$1,511,471	6,191	\$244.14	\$0	0.000%
190248	A 3	SCOTT COUNTY TEL. COOP. INC.	\$1,199,704	4,914	\$244.14	\$0	0.000%
190249	C 3	ROANOKE & BOTETOURT TEL. CO.	\$1,760,583	6,152	\$286.18	\$54,599	0.016%
190250	A 3	SHENANDOAH TEL. CO.	\$3,876,211	15,877	\$244.14	\$0	0.000%
190253	A 3	VIRGINIA HOT SPRINGS TEL. CO.	\$412,597	1,690	\$244.14	\$0	0.000%
190254	C 2	CENTRAL TELEPHONE COMPANY OF VA	\$51,585,424	203,716	\$253.22	\$0	0.000%
190479	C 2	GTE SOUTH INC. - VIRGINIA	\$9,640,148	28,892	\$333.66	\$813,671	0.240%
190567	C 2	UNITED INTER-MOUNTAIN TELEPHONE CO-VA	\$19,645,243	73,214	\$268.33	\$118,515	0.035%
195040	C 1	C & P TELEPHONE COMPANY OF VIRGINIA	\$534,992,672	2,402,558	\$222.68	\$0	0.000%
STATE TOTAL:		WASHINGTON	\$548,343,516	2,417,272	\$226.84	\$7,329,485	2.161%
522400	C 2	UNITED TELEPHONE CO OF THE NW - WA	\$16,668,189	49,227	\$338.60	\$1,485,117	0.438%
522404	C 2	ASOTIN TELEPHONE COMPANY - WA	\$430,787	813	\$529.87	\$97,103	0.029%
522408	C 2	TELEPHONE UTILITIES OF WA INC.	\$22,384,397	73,305	\$305.36	\$1,221,445	0.360%
522410	C 3	COWICHE TELEPHONE CO. INC.	\$342,257	1,422	\$240.69	\$0	0.000%
522412	C 3	ELLENSBURG TELEPHONE COMPANY	\$2,548,735	14,043	\$181.50	\$0	0.000%
522416	C 2	GTE NORTHWEST INC. - WASHINGTON	\$125,221,646	460,264	\$272.06	\$221,502	0.065%
522417	C 3	HAT ISLAND TELEPHONE COMPANY	\$10,372	51	\$203.38	\$0	0.000%
522419	C 3	HOOD CANAL TELEPHONE COMPANY	\$233,781	709	\$329.73	\$18,833	0.006%
522423	C 3	INLAND TELEPHONE COMPANY - WA	\$698,168	1,440	\$484.84	\$141,597	0.042%
522426	C 3	KALAMA TELEPHONE COMPANY	\$478,082	1,546	\$309.24	\$28,205	0.008%
522427	C 3	LEWIS RIVER TELEPHONE COMPANY INC.	\$776,689	2,298	\$337.98	\$68,753	0.020%
522430	A 3	MCDANIEL TELEPHONE COMPANY	\$499,022	2,044	\$244.14	\$0	0.000%
522431	C 3	MASHELL TELEPHONE COMPANY INC.	\$714,204	1,830	\$390.28	\$98,831	0.029%
522436	C 2	PENINSULA TELECOMMUNICATIONS, INC.	\$1,273,005	4,124	\$308.68	\$74,284	0.022%
522437	C 3	PIONEER TELEPHONE COMPANY	\$458,736	727	\$631.00	\$121,295	0.036%
522442	C 3	ST. JOHN TELEPHONE CO.	\$180,631	537	\$336.37	\$15,714	0.005%
522446	C 3	TENINO TEL. CO.	\$743,400	2,054	\$361.93	\$83,636	0.025%
522447	C 3	TOLEDO TELEPHONE COMPANY INC.	\$485,198	1,323	\$366.74	\$56,848	0.017%
522449	C 2	CONTEL OF THE NORTHWEST INC. - WA	\$19,779,279	47,509	\$416.33	\$3,145,987	0.927%
522451	C 3	WESTERN WAHAKIAKUM COUNTY TEL COMPANY	\$319,224	843	\$378.68	\$40,943	0.012%
522452	C 3	WHIDBEY TEL. CO.	\$2,732,651	6,905	\$395.75	\$390,607	0.115%
522453	C 3	YELM TELEPHONE COMPANY	\$1,359,473	4,968	\$273.65	\$18,785	0.006%
525161	C 1	PACIFIC NORTHWEST BELL-WASHINGTON	\$350,005,590	1,739,290	\$201.23	\$0	0.000%
STATE TOTAL:		WEST VIRGINIA	\$271,120,638	767,336	\$353.33	\$9,007,868	2.656%
200256	A 3	ARMSTRONG TELEPHONE COMPANY - WV	\$562,743	2,305	\$244.14	\$0	0.000%
200257	A 3	SPRUCE KNOB SENECA ROCKS TEL., INC.	\$192,138	787	\$244.14	\$0	0.000%
200259	C 3	HARDY TELEPHONE COMPANY	\$995,253	1,879	\$529.67	\$224,247	0.066%
200267	A 3	ARMSTRONG TELEPHONE COMPANY	\$885,740	3,628	\$244.14	\$0	0.000%
200270	C 2	MOUNTAIN STATE TELEPHONE CO.	\$7,484,402	15,303	\$489.08	\$1,535,178	0.453%
200276	A 3	WAR TELEPHONE COMPANY	\$401,122	1,643	\$244.14	\$0	0.000%
200277	A 3	WEST SIDE TELEPHONE COMPANY - WV	\$412,108	1,688	\$244.14	\$0	0.000%
200278	C 2	CONTINENTAL TEL CO OF WEST VIRGINIA	\$10,090,930	23,677	\$426.19	\$1,677,219	0.494%
200479	C 2	GTE SOUTH INC. - WEST VIRGINIA	\$21,697,763	62,610	\$346.55	\$2,097,826	0.618%
205050	C 1	C & P TELEPHONE COMPANY OF W VA	\$228,398,439	653,816	\$349.33	\$3,473,398	1.024%
STATE TOTAL:		WISCONSIN	\$521,571,972	2,384,786	\$218.71	\$1,193,406	0.352%
330841	C 2	CENCOM OF WISCONSIN INC.	\$5,983,868	21,879	\$273.50	\$81,363	0.024%
330842	A 3	AMERY TELEPHONE COMPANY	\$1,149,167	4,707	\$244.14	\$0	0.000%

TABLE 3.4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
WISCONSIN (CONT.)							
330843	A 3	AMHERST TELEPHONE COMPANY	\$851,316	3,487	\$244.14	\$0	0.000%
330844	C 2	BADGER TELECOM, INC.	\$1,229,245	5,035	\$244.14	\$0	0.000%
330846	A 3	BALDWIN TELCOM. INC.	\$657,469	2,693	\$244.14	\$0	0.000%
330847	A 3	BELMONT TELEPHONE COMPANY	\$170,654	699	\$244.14	\$0	0.000%
330848	A 3	BERGEN TELEPHONE COMPANY	\$72,478	170	\$426.34	\$12,054	0.004%
330849	A 2	BLACK EARTH TELEPHONE COMPANY	\$267,577	1,096	\$244.14	\$0	0.000%
330850	A 3	BLOOMER TELEPHONE COMPANY	\$599,364	2,455	\$244.14	\$0	0.000%
330851	C 2	BONDUEL TELEPHONE COMPANY	\$339,110	1,389	\$244.14	\$0	0.000%
330855	A 3	BRUCE TELEPHONE COMPANY, INC.	\$317,138	1,299	\$244.14	\$0	0.000%
330856	C 2	BURLINGTON BRIGHTON & WHEATLAND TEL	\$678,221	2,778	\$244.14	\$0	0.000%
330857	A 3	CASCO TELEPHONE COMPANY	\$247,070	1,012	\$244.14	\$0	0.000%
330858	A 3	LAKESHORE TELEPHONE COMPANY	\$389,159	1,594	\$244.14	\$0	0.000%
330859	C 2	CENTRAL STATE TELEPHONE COMPANY	\$2,118,195	6,984	\$303.29	\$110,522	0.033%
330860	C 3	CHEQUAMEGON TELEPHONE COOP INC.	\$1,351,044	5,623	\$240.27	\$0	0.000%
330861	A 3	CHIBARDUN TELEPHONE COOP INC.	\$1,086,911	4,452	\$244.14	\$0	0.000%
330863	A 3	CITIZENS TELEPHONE COOP INC - WI	\$344,482	1,411	\$244.14	\$0	0.000%
330865	A 3	CLEAR LAKE TELEPHONE CO INC - WI	\$291,747	1,195	\$244.14	\$0	0.000%
330866	A 3	COCHRANE COOPERATIVE TELEPHONE CO	\$244,628	1,002	\$244.14	\$0	0.000%
330868	A 3	COON VALLEY FARMERS TELEPHONE CO., INC	\$464,110	1,901	\$244.14	\$0	0.000%
330870	C 3	CRANDON TELEPHONE COMPANY	\$731,023	2,279	\$320.76	\$52,232	0.015%
330872	A 3	CUBA CITY TEL. EXCH. CO.	\$353,271	1,447	\$244.14	\$0	0.000%
330875	A 3	DICKEYVILLE TELEPHONE CO.	\$224,853	921	\$244.14	\$0	0.000%
330876	C 2	DODGE COUNTY TELEPHONE COMPANY	\$217,285	890	\$244.14	\$0	0.000%
330877	A 3	FAIRWATER-BRANDON-ALTO TEL. CO.	\$270,751	1,109	\$244.14	\$0	0.000%
330879	A 3	FARMERS IND. TELEPHONE COMPANY - WI	\$544,188	2,229	\$244.14	\$0	0.000%
330880	A 3	FARMERS TELEPHONE COMPANY - WI	\$1,257,077	5,149	\$244.14	\$0	0.000%
330881	A 3	MID-PLAINS TELEPHONE INC.	\$4,136,708	16,944	\$244.14	\$0	0.000%
330882	C 2	FENNIMORE TELEPHONE COMPANY	\$374,511	1,534	\$244.14	\$0	0.000%
330883	C 3	FOOTVILLE TELEPHONE COMPANY	\$188,964	774	\$244.14	\$0	0.000%
330884	A 3	FORESTVILLE TEL. CO. INC.	\$442,870	1,814	\$244.14	\$0	0.000%
330886	C 2	GTE NORTH INC. - WISCONSIN	\$101,233,084	334,955	\$302.23	\$793,425	0.234%
330889	A 3	HAGER TELECOM INC.	\$399,169	1,635	\$244.14	\$0	0.000%
330891	C 3	HEADWATERS TEL. CO.	\$986,703	3,528	\$279.68	\$21,984	0.006%
330892	A 3	HILLSBORO TELEPHONE COMPANY INC.	\$336,913	1,380	\$244.14	\$0	0.000%
330895	C 2	CENTURY TELEPHONE OF WISCONSIN INC.	\$7,824,054	41,737	\$187.46	\$0	0.000%
330896	A 3	LAKEFIELD TELEPHONE COMPANY	\$312,255	1,279	\$244.14	\$0	0.000%
330898	C 3	LARSEN-READFIELD TEL. CO.	\$484,130	1,983	\$244.14	\$0	0.000%
330899	A 3	LA VALLE TELEPHONE COOPERATIVE	\$384,765	1,576	\$244.14	\$0	0.000%
330900	A 3	LEMONWEIR VALLEY TEL. CO.	\$595,457	2,439	\$244.14	\$0	0.000%
330902	A 3	LUCK TELEPHONE COMPANY	\$453,856	1,859	\$244.14	\$0	0.000%
330904	A 3	MADLINE ISLAND TEL. CO.	\$78,063	267	\$292.37	\$3,040	0.001%
330905	A 3	MANAWA TELEPHONE COMPANY	\$453,856	1,859	\$244.14	\$0	0.000%
330907	A 3	MAPLE TELEPHONE COOP INC.	\$84,623	302	\$280.21	\$1,948	0.001%
330908	C 3	MARQUETTE-ADAMS TEL. COOP. INC.	\$583,178	2,528	\$230.69	\$0	0.000%
330909	C 2	MIDWAY TELEPHONE COMPANY	\$1,324,148	6,120	\$216.36	\$0	0.000%
330910	A 3	MILLTOWN MUTUAL TELEPHONE COMPANY	\$360,595	1,477	\$244.14	\$0	0.000%
330912	A 3	MONDOVI TELEPHONE COMPANY	\$507,567	2,079	\$244.14	\$0	0.000%
330913	C 3	MONROE COUNTY TELEPHONE COMPANY	\$1,722,497	8,588	\$200.57	\$0	0.000%
330914	C 2	MOSEL & CENTERVILLE TELEPHONE CO	\$690,672	2,829	\$244.14	\$0	0.000%
330915	A 3	MOSINEE TEL. CO.	\$859,861	3,522	\$244.14	\$0	0.000%
330916	C 3	MOUNT HOREB TELEPHONE COMPANY	\$751,598	2,871	\$261.79	\$0	0.000%
330917	C 2	MOUNT VERNON TELEPHONE COMPANY	\$963,069	5,367	\$179.44	\$0	0.000%
330918	A 3	NELSON TELEPHONE COOPERATIVE	\$791,502	3,242	\$244.14	\$0	0.000%
330920	A 3	NIAGARA TELEPHONE COMPANY	\$766,355	3,139	\$244.14	\$0	0.000%
330922	C 3	NORTH-WEST TELEPHONE COMPANY	\$11,911,459	53,065	\$224.47	\$0	0.000%
330924	A 3	NOVY'S TELEPHONE COMPANY	\$125,976	516	\$244.14	\$0	0.000%
330925	A 3	BAYLAND TELEPHONE INC.	\$319,823	1,310	\$244.14	\$0	0.000%
330930	A 2	PEOPLES TELEPHONE COMPANY(MT HOPE)	\$413,306	1,645	\$251.25	\$0	0.000%
330931	C 3	PEOPLES TELEPHONE CO OF RANDOLPH	\$1,342,752	5,513	\$243.56	\$0	0.000%
330934	C 3	PLATTEVILLE TELEPHONE COMPANY	\$1,130,105	7,306	\$154.68	\$0	0.000%

TABLE 3.4

National Exchange Carrier Association
Universal Service Fund
Individual Study Areas
Data for 1988

STUDY AREA CODE	TYPE AND SUBSET	COMPANY NAME	UNSEPARATED NTS REVENUE REQUIREMENT	NUMBER OF LOOPS	UNSEPARATED NTS REVENUE REQUIREMENT PER LOOP	UNIVERSAL SERVICE FUND FOR 1990 AT 5/8 TRANSITION	PERCENT OF TOTAL
----- WISCONSIN (CONT.) -----							
330936	C 3	INDIANHEAD TEL. CO.	\$516,869	1,614	\$320.24	\$36,658	0.011%
330937	C 3	PRICE COUNTY TELEPHONE COMPANY	\$1,089,778	3,376	\$322.80	\$80,180	0.024%
330938	A 3	NORTHEAST TEL. CO.	\$1,134,274	4,646	\$244.14	\$0	0.000%
330940	C 3	RHINELANDER TEL. CO.	\$1,522,760	8,944	\$170.25	\$0	0.000%
330941	A 3	RIB LAKE TELEPHONE COMPANY	\$261,230	1,070	\$244.14	\$0	0.000%
330942	A 3	RICHLAND-GRANT TEL. COOP. INC.	\$540,244	2,204	\$245.12	\$0	0.000%
330943	C 2	ROCK RIVER TELEPHONE COMPANY	\$345,702	1,416	\$244.14	\$0	0.000%
330944	A 3	ST. CROIX TEL. CO.	\$1,318,600	5,401	\$244.14	\$0	0.000%
330945	C 2	SCANDINAVIA TELEPHONE COMPANY	\$463,866	1,900	\$244.14	\$0	0.000%
330946	A 3	SHARON TEL. CO.	\$246,093	1,008	\$244.14	\$0	0.000%
330948	A 3	SHELL LAKE TEL. CO.	\$455,809	1,867	\$244.14	\$0	0.000%
330949	A 3	SIREN TELEPHONE CO., INC.	\$438,475	1,796	\$244.14	\$0	0.000%
330950	C 3	SOLO SPRINGS TEL. CO.	\$2,972,548	13,864	\$214.41	\$0	0.000%
330951	A 3	SOMERSET TEL. CO., INC.	\$313,964	1,286	\$244.14	\$0	0.000%
330952	C 3	SOUTHEAST TEL. CO. OF WIS., INC.	\$1,298,934	5,616	\$231.29	\$0	0.000%
330953	A 3	SPRING VALLEY TEL. CO., INC.	\$201,416	825	\$244.14	\$0	0.000%
330954	C 2	STOCKBRIDGE & SHERWOOD TEL. CO.	\$550,292	2,254	\$244.14	\$0	0.000%
330955	A 3	STATE LONG DISTANCE TEL. CO.	\$1,449,215	5,936	\$244.14	\$0	0.000%
330956	C 3	UNIVERSAL TEL. CO. OF NORTHERN WIS. IN	\$2,531,727	10,039	\$252.19	\$0	0.000%
330957	A 3	SULLIVAN TEL. CO.	\$400,634	1,641	\$244.14	\$0	0.000%
330958	A 3	TENNEY TEL. CO.	\$213,134	873	\$244.14	\$0	0.000%
330959	A 3	THORP TELEPHONE COMPANY	\$468,016	1,917	\$244.14	\$0	0.000%
330960	A 3	TRI-COUNTY TEL. COOP. INC.-WI	\$797,361	3,266	\$244.14	\$0	0.000%
330961	A 3	TURTLE LAKE TELEPHONE CO INC.	\$281,493	1,153	\$244.14	\$0	0.000%
330962	A 3	UNION TELEPHONE COMPANY	\$790,037	3,236	\$244.14	\$0	0.000%
330963	C 3	UTELCO, INC	\$2,153,216	12,316	\$174.83	\$0	0.000%
330964	C 3	URBAN TELEPHONE CORPORATION	\$2,956,643	16,115	\$183.47	\$0	0.000%
330965	C 2	VALDERS TELEPHONE COMPANY	\$440,429	1,804	\$244.14	\$0	0.000%
330966	A 3	VERNON TELEPHONE COOP	\$1,294,186	5,301	\$244.14	\$0	0.000%
330967	A 3	VIROQUA TELEPHONE COMPANY	\$723,631	2,964	\$244.14	\$0	0.000%
330968	A 2	WAUNAKEE TELEPHONE COMPANY	\$874,021	3,580	\$244.14	\$0	0.000%
330970	A 3	WAYSIDE TELEPHONE COMPANY	\$298,095	1,221	\$244.14	\$0	0.000%
330971	A 3	WEST WISCONSIN TELCOM COOP. INC.	\$802,976	3,289	\$244.14	\$0	0.000%
330973	A 3	WITTENBERG TELEPHONE COMPANY	\$436,034	1,786	\$244.14	\$0	0.000%
330974	C 3	WOOD COUNTY TELEPHONE COMPANY	\$2,789,822	20,337	\$137.18	\$0	0.000%
335220	C 1	WISCONSIN BELL	\$322,414,603	1,615,058	\$199.63	\$0	0.000%

STATE TOTAL:		WYOMING	\$102,344,765	228,968	\$446.98	\$5,473,280	1.614%

511595	C 2	UNITED TELEPHONE CO. OF THE WEST-WY	\$1,337,458	5,815	\$230.00	\$0	0.000%
512251	C 3	RANGE TEL. COOPERATIVE INC.-WY	\$743,217	1,322	\$562.19	\$177,925	0.052%
512289	A 3	CHUGWATER TELEPHONE COMPANY	\$69,831	225	\$310.36	\$4,206	0.001%
512290	C 3	UTAH-WYOMING TELECOM WY	\$83,383	293	\$284.58	\$2,410	0.001%
512291	C 3	DUBOIS TELEPHONE EXCHANGE INC.	\$897,891	1,519	\$591.11	\$225,030	0.066%
512292	A 3	EDEN VALLEY TEL. CO.	\$72,623	239	\$303.86	\$3,837	0.001%
512295	C 3	SILVER STAR TEL. CO.- WY	\$325,004	1,003	\$324.03	\$24,323	0.007%
512296	A 3	TRI-COUNTY TEL. ASSN. INC.-WY	\$282,033	914	\$308.57	\$16,423	0.005%
512297	C 3	UNION TELEPHONE CO.	\$913,433	2,782	\$328.34	\$72,332	0.021%
512299	C 2	TELEPHONE UTILITIES OF WYOMING, INC.	\$905,824	2,844	\$318.50	\$62,568	0.018%
515108	C 1	MOUNTAIN BELL-WYOMING	\$96,714,068	212,012	\$456.17	\$4,884,226	1.440%

INDUSTRY TOTAL:			\$29,288,627,542	127,043,530	\$230.54	\$339,203,966	100.000%

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). The data reported in this section includes revision of the 1987 data that were contained in our December 1988 report, as well as new data for 1988.

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 October 1989. Table 4.1 shows the latest available figures on minutes of use for interstate traffic as reported by NECA, derived from the Common Line earned revenues. Tables 4.2 and 4.3 show the figures for large (Tier 1)¹ and small (non-Tier 1) companies, respectively. These figures do not include the minutes from the closed end of WATS. Similar data, extending back to mid-1984, are contained in earlier editions of this report.

Tables 4.4 and 4.5 are summary tables derived from the data for all cost companies as compiled by NECA. Table 4.4 gives local, state, interstate, and total subscriber line usage (SLU) minutes for the sum of the continental United States, Hawaii, and Puerto Rico, for 1980 through 1988. It also gives the year over year growth rates for 1981 through 1988 and annualized growth rates for 1980 through 1983 and 1983 through 1988. State and interstate SLU have grown faster since 1983 than they did before. However, due to the exclusion of outward WATS minutes from SLU beginning in June 1986, the SLU growth rates for 1986 and 1987 are somewhat lower than they would have been otherwise. Table 4.5 gives the same data for dial equipment minutes (DEM), which include outward WATS minutes, and shows a similar pattern of growth rates. These two tables suggest that the toll

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

rate decreases that accompanied the imposition of subscriber line charges have stimulated the use of the public switched network.

The NECA compilation of data provided by all cost companies appears in Tables 4.6 through 4.17. The companies in these tables are listed in numerical order of their NECA code numbers (FCODE), which are geographically based. (The first two digits of the code number indicate the state.) Tables 4.6 and 4.7 present premium and non-premium interstate minutes for all Tier 1 companies for 1987 and 1988. These minutes are broken down into originating and terminating. Similar data for non-Tier 1 companies are in Tables 4.8 and 4.9. Tables 4.10 through 4.13 contain information on the number of loops, state and interstate toll messages, and local, state, interstate, and total SLU minutes. Table 4.10 and 4.11 present 1987 and 1988 data for Tier 1 companies, and Tables 4.12 and 4.13 present 1987 and 1988 data for non-Tier 1 companies. Tables 4.14 through 4.17 contain information on the interstate SLU, SPF, and DEM factors, and local, state, and interstate DEM minutes. The last column of these tables shows the weighted DEM factor for 1987 and the new transitional weighted DEM factor for 1988. Tables 4.14 and 4.15 present 1987 and 1988 data for Tier 1 companies, and Tables 4.16 and 4.17 are 1987 and 1988 data for non-Tier 1 companies.

TABLE 4.1

NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.

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

PAGE 1 OF 1

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

TOTAL COMMON LINE POOL

(MOU REPORTED IN MILLIONS)

MONTH/YR	PREMIUM CCL MOUS			NONPREMIUM CCL MOUS		
	ORIGINATING	TERMINATING	TOTAL	ORIGINATING	TERMINATING	TOTAL
JAN 87	7,039.434	8,607.084	15,646.518	350.039	646.491	996.529
FEB 87	6,779.358	8,642.556	15,421.914	363.583	692.399	1,055.982
MAR 87	7,441.484	9,525.709	16,967.192	380.300	778.077	1,158.377
APR 87	7,168.192	9,225.270	16,393.463	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	7,497.557	9,388.931	16,886.489	290.560	719.353	1,009.913
JUL 87	8,234.450	9,491.803	17,726.253	352.998	694.445	1,047.442
AUG 87	7,546.636	9,554.372	17,101.007	258.775	703.147	961.922
SEP 87	7,494.916	9,744.866	17,239.782	252.561	686.001	938.562
OCT 87	7,736.237	10,226.979	17,963.216	231.049	648.353	879.402
NOV 87	7,627.850	9,702.280	17,330.130	219.665	616.517	836.182
DEC 87	8,484.044	10,519.995	19,004.039	261.170	598.652	859.822
JAN 88	8,128.205	10,173.633	18,301.838	185.121	582.563	767.684
FEB 88	8,070.964	10,221.179	18,292.143	191.007	598.705	789.712
MAR 88	8,780.762	11,193.956	19,974.717	194.935	610.525	805.460
APR 88	8,219.322	10,348.194	18,567.516	163.854	524.104	687.958
MAY 88	8,461.891	10,581.546	19,043.437	200.267	637.407	837.675
JUN 88	8,666.864	10,915.979	19,582.844	189.778	606.101	795.879
JUL 88	8,430.877	10,438.348	18,869.225	176.531	546.841	723.371
AUG 88	9,360.601	11,678.294	21,038.894	188.448	619.707	808.156
SEP 88	8,834.730	11,051.696	19,886.427	182.244	583.064	765.308
OCT 88	8,963.714	11,209.101	20,172.815	177.858	562.086	739.944
NOV 88	9,012.581	11,242.634	20,255.215	173.994	568.599	742.593
DEC 88	9,537.657	11,746.696	21,284.353	174.503	559.660	734.163
JAN 89	9,526.344	11,675.213	21,201.557	175.935	519.110	695.045
FEB 89	9,163.032	11,347.776	20,510.809	151.273	512.756	664.029
MAR 89	10,321.358	12,768.298	23,089.655	177.930	538.805	716.735
APR 89	9,574.988	11,647.218	21,222.206	163.592	486.876	650.467
MAY 89	9,869.168	11,948.551	21,817.719	171.800	483.152	654.952
JUN 89	10,111.129	12,299.404	22,410.533	182.772	501.980	684.752
JUL 89	9,715.652	11,423.189	21,138.841	150.595	446.054	596.650
AUG 89	10,556.591	12,625.925	23,182.516	170.273	489.290	659.563
SEP 89	9,924.636	11,878.919	21,803.555	156.162	435.992	592.153
OCT 89	10,730.261	12,614.405	23,344.666	148.914	463.306	612.219

TABLE 7.2

NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.

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

PAGE 1 OF 1

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

TIER 1

(MOU REPORTED IN MILLIONS)

MONTH/YR	PREMIUM CCL MOUS			NONPREMIUM CCL MOUS		
	ORIGINATING	TERMINATING	TOTAL	ORIGINATING	TERMINATING	TOTAL
JAN 87	6,595.656	8,064.477	14,660.133	336.211	620.953	957.165
FEB 87	6,381.433	8,135.247	14,516.680	350.677	667.821	1,018.498
MAR 87	7,022.391	8,989.221	16,011.613	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	7,057.952	8,838.405	15,896.358	279.659	692.380	972.040
JUL 87	7,735.947	8,917.178	16,653.124	340.057	668.970	1,009.027
AUG 87	7,078.454	8,961.610	16,040.064	248.320	674.744	923.064
SEP 87	7,053.575	9,171.032	16,224.608	242.180	657.807	899.987
OCT 87	7,291.229	9,638.675	16,929.904	221.535	621.662	843.198
NOV 87	7,170.668	9,120.710	16,291.378	208.584	585.416	794.000
DEC 87	8,012.839	9,935.550	17,948.390	248.548	569.712	818.260
JAN 88	7,635.390	9,556.822	17,192.212	175.117	551.100	726.217
FEB 88	7,615.354	9,643.850	17,259.204	179.777	563.460	743.237
MAR 88	8,314.267	10,599.359	18,913.626	182.305	570.774	753.079
APR 88	7,747.218	9,753.687	17,500.905	153.110	489.748	642.858
MAY 88	7,975.747	9,973.530	17,949.277	186.748	594.325	781.073
JUN 88	8,185.702	10,310.379	18,496.081	176.403	563.398	739.801
JUL 88	7,921.422	9,807.569	17,728.990	162.428	503.117	665.545
AUG 88	8,836.645	11,024.955	19,861.600	174.444	573.688	748.132
SEP 88	8,320.948	10,409.182	18,730.130	166.914	534.029	700.943
OCT 88	8,449.806	10,564.975	19,014.781	162.835	514.035	676.870
NOV 88	8,492.488	10,593.246	19,085.734	159.116	520.649	679.764
DEC 88	8,972.136	11,051.555	20,023.691	156.039	499.866	655.905
JAN 89	8,974.288	10,995.919	19,970.206	159.395	469.998	629.392
FEB 89	8,635.224	10,690.681	19,325.904	137.433	467.181	604.614
MAR 89	9,782.161	12,100.189	21,882.350	161.333	488.207	649.540
APR 89	9,013.321	11,253.258	20,266.579	137.171	439.282	576.453
MAY 89	9,341.586	11,581.101	20,922.687	144.731	437.162	581.893
JUN 89	9,592.532	11,936.855	21,529.387	147.214	441.936	589.150
JUL 89	9,174.940	11,057.102	20,232.042	121.812	393.722	515.534
AUG 89	9,993.248	12,248.611	22,241.860	138.534	434.644	573.178
SEP 89	9,373.700	11,509.272	20,882.972	122.910	379.630	502.540
OCT 89	10,162.613	12,240.783	22,403.396	118.833	406.796	525.629

TABLE 7.3

NATIONAL EXCHANGE CARRIER ASSOCIATION, INC.

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

PAGE 1 OF 1

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

NON-TIER 1

(MOU REPORTED IN MILLIONS)

MONTH/YR	PREMIUM CCL MOUS			NONPREMIUM CCL MOUS		
	ORIGINATING	TERMINATING	TOTAL	ORIGINATING	TERMINATING	TOTAL
JAN 87	443.778	542.606	986.384	13.827	25.537	39.365
FEB 87	397.925	507.309	905.234	12.905	24.578	37.484
MAR 87	419.092	536.487	955.580	11.817	24.176	35.993
APR 87	417.804	537.711	955.516	12.364	24.293	36.657
MAY 87	429.253	544.609	973.863	13.201	27.998	41.199
JUN 87	439.605	550.526	990.131	10.900	26.973	37.873
JUL 87	498.503	574.625	1,073.128	12.941	25.475	38.416
AUG 87	468.181	592.762	1,060.943	10.455	28.403	38.858
SEP 87	441.341	573.833	1,015.174	10.381	28.194	38.575
OCT 87	445.008	588.304	1,033.312	9.514	26.691	36.204
NOV 87	457.182	581.570	1,038.752	11.081	31.100	42.182
DEC 87	471.204	584.445	1,055.649	12.622	28.940	41.562
JAN 88	492.816	616.810	1,109.626	10.004	31.463	41.467
FEB 88	455.610	577.329	1,032.940	11.230	35.245	46.475
MAR 88	466.494	594.597	1,061.091	12.630	39.751	52.381
APR 88	472.104	594.507	1,066.611	10.744	34.356	45.100
MAY 88	486.144	608.016	1,094.159	13.519	43.082	56.601
JUN 88	481.163	605.600	1,086.763	13.375	42.703	56.078
JUL 88	509.455	630.779	1,140.234	14.103	43.724	57.827
AUG 88	523.956	653.339	1,177.295	14.005	46.019	60.024
SEP 88	513.782	642.514	1,156.296	15.330	49.035	64.365
OCT 88	513.908	644.125	1,158.034	15.023	48.051	63.073
NOV 88	520.093	649.387	1,169.481	14.878	47.950	62.829
DEC 88	565.522	695.140	1,260.662	18.465	59.794	78.258
JAN 89	552.057	679.294	1,231.351	16.540	49.112	65.652
FEB 89	527.809	657.095	1,184.904	13.840	45.575	59.415
MAR 89	539.197	668.109	1,207.305	16.597	50.598	67.195
APR 89	561.667	393.960	955.627	26.421	47.593	74.014
MAY 89	527.582	367.450	895.032	27.069	45.991	73.059
JUN 89	518.597	362.549	881.147	35.558	60.044	95.602
JUL 89	540.712	366.087	906.799	28.784	52.332	81.116
AUG 89	563.343	377.313	940.656	31.738	54.646	86.385
SEP 89	550.936	369.647	920.583	33.252	56.362	89.614
OCT 89	567.649	373.622	941.271	30.080	56.510	86.590

TABLE 4.4

TOTAL TIER 1 COMPANY
SUBSCRIBER LINE USAGE MINUTES
(in 000's)

	LOC SLU	ST SLU	IS SLU	TOT SLU
1980	1,382,616,670	127,067,655	124,664,017	1,634,348,333
1981	1,431,666,955	139,148,130	136,708,633	1,707,893,001
1982	1,481,707,512	146,458,649	143,812,742	1,771,978,897
1983	1,521,797,713	153,489,141	152,715,828	1,828,022,685
1984	1,594,234,811	180,709,722	182,302,591	1,957,247,131
1985	1,627,843,017	197,629,345	216,215,212	2,041,669,588
1986	1,636,694,002	203,115,148	225,865,176	2,065,674,335
1987	1,649,328,352	214,339,775	241,952,859	2,105,620,992
1988	1,715,395,765	233,447,100	284,680,842	2,233,523,719

GROWTH RATES OF
TOTAL TIER I COMPANY
SUBSCRIBER LINE USAGE MINUTES

	LOC SLU	ST SLU	IS SLU	TOT SLU
1981	3.55%	9.51%	9.66%	4.50%
1982	3.50%	5.25%	5.20%	3.75%
1983	2.71%	4.80%	6.19%	3.16%
1984	4.76%	17.73%	19.37%	7.07%
1985	2.11%	9.36%	18.60%	4.31%
1986	0.54%	2.78%	4.46%	1.18%
1987	0.77%	5.53%	7.12%	1.93%
1988	4.01%	8.91%	17.66%	6.07%
ANNUALIZED GROWTH, 83/80				
	3.25%	6.50%	7.00%	3.80%
ANNUALIZED GROWTH, 88/83				
	2.42%	8.75%	13.26%	4.09%
ANNUALIZED GROWTH, 88/80				
	2.73%	9.08%	12.52%	4.56%

- Beginning in June 1986, the closed end of WATS minutes are excluded.

TABLE 4.5

TOTAL TIER 1 COMPANY
DIAL EQUIPMENT MINUTES
(in 000's)

	LOC DEM	ST DEM	IS DEM	TOT DEM
1980	1,383,560,653	137,213,773	130,386,373	1,651,160,800
1981	1,429,888,745	150,730,261	143,172,697	1,723,791,691
1982	1,481,055,068	158,968,545	154,068,429	1,794,092,046
1983	1,519,324,063	166,014,647	167,827,011	1,853,165,732
1984	1,599,506,290	200,322,693	208,075,034	2,007,611,144
1985	1,626,769,150	225,904,580	251,300,686	2,104,531,838
1986	1,636,668,510	233,911,143	267,276,797	2,137,856,454
1987	1,649,049,789	249,895,980	292,223,576	2,191,169,353
1988	1,715,000,030	245,952,961	304,884,669	2,265,837,665

GROWTH RATES OF
TOTAL TIER I COMPANY
DIAL EQUIPMENT MINUTES

	LOC DEM	ST DEM	IS DEM	TOT DEM
1981	3.35%	9.85%	9.81%	4.40%
1982	3.58%	5.47%	7.61%	4.08%
1983	2.58%	4.43%	8.93%	3.29%
1984	5.28%	20.67%	23.98%	8.33%
1985	1.70%	12.77%	20.77%	4.83%
1986	0.61%	3.54%	6.36%	1.58%
1987	0.76%	6.83%	9.33%	2.49%
1988	4.00%	-1.58%	4.33%	3.41%
ANNUALIZED GROWTH, 83/80				
	3.17%	6.56%	8.78%	3.92%
ANNUALIZED GROWTH, 88/83				
	2.45%	8.18%	12.68%	4.10%
ANNUALIZED GROWTH, 88/80				
	2.72%	7.57%	11.20%	4.04%

TABLE 4.6

 1987 TIER 1 COMPANIES NETWORK USAGE DATA
 MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
105111	87	NEW ENGLAND TEL-ME	340,002	467,836	807,838	3,357	42,143	45,500
115112	87	NEW ENGLAND TEL-MA	2,768,628	3,481,309	6,249,937	90,519	246,246	336,765
125113	87	NEW ENGLAND TEL-NH	623,710	805,187	1,428,896	7,585	48,767	56,353
135200	87	SOUTHERN NEW ENGLAND	1,588,763	2,045,316	3,634,079	153,480	363,114	516,593
145115	87	NEW ENGLAND TEL-VT	234,145	306,785	540,930	5,718	32,930	38,648
150096	87	CONTEL OF NY, INC	93,124	125,983	219,107	1,828	21,257	23,085
150121	87	ROCHESTER TEL CORP	240,031	329,786	569,817	29,698	36,607	66,305
155130	87	NEW YORK TEL CO	7,698,704	8,823,310	16,522,015	369,451	1,053,723	1,423,174
160138	87	UNITED TEL - NJ, INC	61,737	77,017	138,754	727	1,833	2,559
165120	87	NEW JERSEY BELL	5,234,613	5,837,038	11,071,652	66,069	209,850	275,919
170169	87	GTE NORTH INC. - PA	248,993	279,897	528,890	22,061	11,603	33,664
170209	87	UTC OF PENNSYLVANIA	136,073	181,216	317,289	5,607	4,370	9,977
175000	87	BELL OF PENNSYLVANIA	3,547,191	4,387,238	7,934,429	43,226	179,603	222,829
185030	87	C & P TEL CO OF MD	2,065,435	2,371,880	4,437,315	82,490	194,699	277,189
190233	87	CONTEL OF VIRGINIA	285,053	293,086	578,139	3,391	6,523	9,914
190254	87	CENTEL OF VIRGINIA	134,924	170,253	305,177	12,866	29,533	42,399
190479	87	GTE SOUTH INC. - VA	20,947	29,664	50,611	4	1	6
190567	87	UNITED INTER-MT-VA	47,327	67,878	115,205	929	941	1,870
195040	87	C & P TEL CO OF VA	2,273,574	2,480,506	4,754,080	20,659	78,437	99,096
200479	87	GTE SOUTH INC. - WV	61,119	77,670	138,789	2,882	421	3,304
205050	87	C & P TEL CO OF WV	445,868	573,488	1,019,357	7,135	58,329	65,464
210328	87	GTE FLORIDA INC.	1,210,741	1,546,220	2,756,961	70,940	70,733	141,673
210340	87	CENTEL OF FLORIDA	178,948	231,820	410,768	33,044	34,453	67,497
210341	87	UTC OF FLORIDA	660,449	809,561	1,470,010	87,150	148,959	236,109
215191	87	SOUTHERN BELL-FL	3,860,532	4,612,608	8,473,140	150,401	194,157	344,557
220479	87	GTE SOUTH INC.- GA	90,746	131,613	222,359	3,017	157	3,173
225192	87	SOUTHERN BELL-GA	2,233,007	2,927,762	5,160,770	54,663	123,635	178,297
230470	87	CAROLINA TEL & TEL	507,417	617,443	1,124,860	16,433	83,190	99,624
230471	87	CENTEL OF NC	84,754	106,870	191,624	3,677	8,903	12,580
230479	87	GTE SOUTH INC - NC	111,461	133,915	245,376	359	764	1,123
235193	87	SOUTHERN BELL-NC	1,060,684	1,538,342	2,599,025	51,529	145,387	196,916
240479	87	GTE SOUTH INC. - SC	110,056	104,868	214,924	3,489	2,032	5,521
240506	87	UTC OF THE CAROLINAS	47,716	60,114	107,830	3,309	7,814	11,123
245194	87	SOUTHERN BELL-SC	754,116	1,107,948	1,862,064	38,842	108,059	146,901
250293	87	GTE SOUTH INC. - AL	92,098	112,320	204,418	1,922	772	2,694
255181	87	SO CENTRAL BELL-AL	897,625	1,284,902	2,182,527	48,390	120,455	168,845
260407	87	GTE SOUTH INC. - KY	198,625	277,905	476,531	5,018	5,750	10,768
265061	87	CINCINNATI BELL-KY	73,565	92,976	166,541	347	1,267	1,614
265182	87	SO CENTRAL BELL-KY	569,012	783,000	1,352,012	25,830	79,245	105,076
275183	87	SO CENTRAL BELL-LA	1,141,665	1,535,263	2,676,928	61,284	126,128	187,412
285184	87	SO CENTRAL BELL-MS	691,084	938,216	1,629,300	15,164	80,040	95,204
290479	87	GTE SOUTH INC. - TN	24,225	37,166	61,391	33	216	249
290567	87	UNITED INTER-MT-TN	98,059	166,959	265,019	13,184	14,827	28,011
295185	87	SO. CENTRAL BELL -TN	1,358,029	1,830,351	3,188,380	71,095	129,574	200,669

TABLE 4.6

1987 TIER 1 COMPANIES NETWORK USAGE DATA
MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
300615	87	GTE NORTH INC. - OH	313,500	358,980	672,480	9,963	6,054	16,018
300630	87	CENDEL OF OHIO	28,006	35,290	63,296	5,019	11,080	16,099
300661	87	UTC OF OHIO	212,628	308,263	520,891	11,836	34,268	46,104
305062	87	CINCINNATI BELL-OH	382,241	615,499	997,740	29,874	44,903	74,776
305150	87	OHIO BELL TEL CO	1,829,026	2,630,165	4,459,191	99,036	211,252	310,289
310695	87	GTE NORTH INC. - MI	228,370	244,506	472,876	7,793	8,512	16,305
315090	87	MICHIGAN BELL TEL CO	2,026,883	2,756,611	4,783,495	57,105	186,855	243,960
320772	87	GTE NORTH INC. - IN	393,265	483,498	876,763	62,093	27,544	89,637
320832	87	UTC OF INDIANA	95,124	119,693	214,817	1,231	926	2,157
325080	87	INDIANA BELL TEL CO	1,018,465	1,449,384	2,467,849	39,899	128,096	167,995
330886	87	GTE NORTH INC. - WI	149,996	186,706	336,702	4,808	1,774	6,581
335220	87	WISCONSIN BELL	919,074	1,430,036	2,349,110	20,696	115,284	135,980
340985	87	CENDEL OF ILLINOIS	118,919	149,984	268,903	2,588	5,543	8,132
341015	87	GTE NORTH INC. - IL	293,559	360,526	654,085	17,329	9,643	26,972
345070	87	ILLINOIS BELL TEL CO	3,525,486	4,642,551	8,168,037	67,909	196,122	264,030
351186	87	GTE NORTH INC. - IA	52,197	69,237	121,434	150	62	212
351317	87	UTC OF IOWA	34,320	43,233	77,553	108	261	369
355141	87	NORTHWESTERN BELL-IA	610,433	876,104	1,486,536	100,409	175,086	275,495
361186	87	GTE NORTH INC. - MN	1,856	1,875	3,731	0	0	0
361367	87	CENDEL OF MN	38,026	47,908	85,934	136	285	421
361456	87	UTC OF MINNESOTA	38,293	48,254	86,547	392	883	1,275
365142	87	NORTHWESTERN BELL-MN	1,050,083	1,527,464	2,577,546	62,716	147,120	209,836
371186	87	GTE NORTH INC. - NE	21,215	28,465	49,680	280	13	293
371568	87	LINCOLN TEL & TEL CO	127,959	164,593	292,552	466	11,377	11,843
371595	87	UTC OF THE WEST-NE	18,852	23,747	42,599	134	306	439
375143	87	NORTHWESTERN BELL-NE	320,547	507,299	827,846	23,477	62,557	86,033
385144	87	NORTHWESTERN BELL-ND	195,353	258,854	454,206	4,606	35,791	40,397
395145	87	NORTHWESTERN BELL-SD	178,646	246,387	425,032	18,301	47,697	65,998
401728	87	UTC OF ARKANSAS	11,208	14,116	25,324	12	26	38
402080	87	GTE SOUTHWEST INC-AR	39,943	51,260	91,203	0	44	44
405211	87	SOUTHWESTERN BELL-AR	469,731	682,645	1,152,376	11,698	88,205	99,903
411842	87	UTC OF KANSAS	38,449	48,442	86,890	66	147	213
415214	87	SOUTHWESTERN BELL-KS	751,994	983,056	1,735,050	28,653	92,990	121,643
421186	87	GTE NORTH INC. - MO	55,905	69,279	125,185	18,279	16,433	34,712
421957	87	UTC OF MISSOURI	91,959	115,989	207,949	4,763	10,893	15,656
425213	87	SOUTHWESTERN BELL-MO	1,274,990	1,962,896	3,237,886	46,960	122,092	169,052
432080	87	GTE SOUTHWEST INC-OK	61,891	79,384	141,274	44	75	119
435215	87	SOUTHWESTERN BELL-OK	907,777	1,186,368	2,094,145	43,171	101,348	144,518
442080	87	GTE SOUTHWEST INC-TX	596,126	708,230	1,304,357	7,838	16,758	24,596
442084	87	UTC OF TEXAS INC	26,278	33,113	59,391	1,173	2,902	4,075
442114	87	CENDEL OF TEXAS	79,344	99,901	179,245	1,550	3,127	4,677
442154	87	CONTEL OF TEXAS	56,642	65,168	121,810	2,718	2,945	5,663
445216	87	SOUTHWESTERN BELL-TX	4,060,817	5,165,176	9,225,993	253,983	278,706	532,689
455101	87	MOUNTAIN BELL - AZ	1,549,436	1,943,026	3,492,462	102,846	129,531	232,377

TABLE 4.6

1987 TIER 1 COMPANIES NETWORK USAGE DATA
MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
465102	87	MOUNTAIN BELL-CO	1,743,980	2,000,911	3,744,892	177,749	174,974	352,723
472416	87	GTE NORTHWEST INC-ID	79,873	99,834	179,707	2,912	5,365	8,277
475103	87	MOUNTAIN BELL-ID	280,510	358,410	638,921	15,889	35,760	51,649
475162	87	PACIFIC NW BELL-ID	17,128	22,608	39,736	161	760	921
482416	87	GTE NORTHWEST INC-MT	5,637	6,925	12,562	0	3	3
485104	87	MOUNTAIN BELL-MT	234,077	300,423	534,500	11,975	28,293	40,267
492080	87	GTE SOUTHWEST INC-NM	37,455	38,114	75,569	0	230	230
495105	87	MOUNTAIN BELL-NM	511,357	608,707	1,120,063	21,944	95,493	117,437
505107	87	MOUNTAIN BELL-UT	525,815	722,937	1,248,752	67,733	69,988	137,721
511595	87	UTC OF THE WEST-WY	5,519	6,951	12,470	5	14	19
515108	87	MOUNTAIN BELL-WY	248,736	268,758	517,493	8,464	32,096	40,561
522400	87	UTC OF THE NW-WA	31,267	39,368	70,635	248	580	828
522416	87	GTE NORTHWEST INC-WA	294,027	336,825	630,852	21,225	9,965	31,190
525161	87	PACIFIC NW BELL-WA	1,155,691	1,628,551	2,784,242	33,633	94,024	127,657
532400	87	UTC OF THE NW - OR	27,627	34,793	62,420	238	572	810
532416	87	GTE NORTHWEST INC-OR	180,315	234,796	415,111	13,373	6,664	20,037
535163	87	PACIFIC NW BELL-OR	688,276	994,972	1,683,248	24,501	79,637	104,139
542302	87	CONTEL OF CALIFORNIA	119,686	126,572	246,259	4,617	4,342	8,959
542319	87	GTC OF CALIFORNIA	1,594,200	1,611,576	3,205,777	26,115	58,518	84,633
542344	87	WEST COAST TEL OF CA	5,331	5,836	11,168	68	84	152
545170	87	PACIFIC BELL	6,395,657	7,755,600	14,151,258	132,615	621,673	754,288
552348	87	CENTEL OF NV	517,520	504,104	1,021,625	209	501	710
555173	87	NEVADA BELL	228,614	263,784	492,398	14,945	14,202	29,147
565010	87	DIAMOND STATE TEL	452,321	535,700	988,021	4,603	2,041	6,644
575020	87	C & P TEL CO OF WASH	716,986	1,100,365	1,817,352	48,100	53,816	101,915
585114	87	NEW ENGLAND TEL - RI	462,752	597,114	1,059,866	17,862	39,852	57,714
623100	87	GTE HAWAIIAN TEL. CO	383,687	424,920	808,607	40,123	36,263	76,387
633201	87	PUERTO RICO TEL CO	301,002	389,217	690,218	2,122	52,748	54,870
116		TIER 1 CO's TOTALS	85,744,433	108,042,317	193,786,757	3,552,339	7,961,421	11,513,758

TABLE 4.7

1988 TIER 1 COMPANIES NETWORK USAGE DATA
MINUTES OF USE (IN THOUSANDS)

F	CODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
105111	88		NEW ENGLAND TEL-ME	406,424	529,389	935,813	3,608	50,983	54,591
115112	88		NEW ENGLAND TEL-MA	3,265,748	3,999,861	7,265,609	43,296	175,125	218,421
125113	88		NEW ENGLAND TEL-NH	727,445	894,752	1,622,197	5,374	41,869	47,243
135200	88		SOUTHERN NEW ENGLAND	1,942,358	2,522,414	4,464,772	30,111	111,860	141,972
145115	88		NEW ENGLAND TEL-VT	256,662	348,227	604,890	7,472	33,420	40,892
150096	88		CONTEL OF NY, INC	101,037	134,097	235,134	4,247	28,654	32,901
150121	88		ROCHESTER TEL CORP	286,279	383,046	669,325	11,791	22,650	34,441
155130	88		NEW YORK TEL CO	8,973,318	10,154,116	19,127,435	241,417	858,026	1,099,443
160138	88		UNITED TEL - NJ, INC	129,431	162,695	292,126	4,500	14,240	18,740
165120	88		NEW JERSEY BELL	5,681,085	6,602,216	12,283,301	14,193	102,913	117,106
170169	88		GTE NORTH INC. - PA	238,664	320,535	559,199	2,585	14,102	16,687
170209	88		UTC OF PENNSYLVANIA	160,811	211,009	371,820	7,827	10,956	18,784
175000	88		BELL OF PENNSYLVANIA	3,634,079	5,071,451	8,705,530	8,624	194,101	202,725
185030	88		C & P TEL CO OF MD	2,468,738	2,899,682	5,368,420	33,788	121,404	155,192
190233	88		CONTEL OF VIRGINIA	341,470	388,067	729,537	2,707	12,176	14,883
190254	88		CONTEL OF VIRGINIA	158,012	198,522	356,534	3,793	11,846	15,639
190479	88		GTE SOUTH INC. - VA	22,779	33,619	56,398	31	6,856	6,886
190567	88		UNITED INTER-MT-VA	60,788	78,710	139,498	4,173	5,670	9,844
195040	88		C & P TEL CO OF VA	2,591,506	2,924,208	5,515,714	6,217	68,454	74,671
200479	88		GTE SOUTH INC. - WV	55,630	75,431	131,061	97	6,599	6,696
205050	88		C & P TEL CO OF WV	496,738	632,126	1,128,864	4,726	68,161	72,887
210328	88		GTE FLORIDA INC.	1,371,452	1,748,386	3,119,838	41,776	62,193	103,969
210340	88		CENTEL OF FLORIDA	219,884	285,080	504,964	504	559	1,063
210341	88		UTC OF FLORIDA	795,094	990,022	1,785,116	96,246	224,287	320,533
215191	88		SOUTHERN BELL-FL	4,285,196	5,015,913	9,301,109	78,718	65,524	144,242
220479	88		GTE SOUTH INC.- GA	95,317	141,804	237,121	1,296	1,039	2,336
225192	88		SOUTHERN BELL-GA	2,707,508	3,288,210	5,995,718	9,455	65,635	75,089
230470	88		CAROLINA TEL & TEL	580,077	678,244	1,258,321	25,100	124,865	149,965
230471	88		CENTEL OF NC	106,376	133,719	240,095	701	2,209	2,910
230479	88		GTE SOUTH INC - NC	135,850	177,202	313,052	140	294	434
235193	88		SOUTHERN BELL-NC	1,296,080	1,732,669	3,028,749	35,709	65,222	100,931
240479	88		GTE SOUTH INC. - SC	126,082	154,498	280,580	1,887	687	2,575
240506	88		UTC OF THE CAROLINAS	53,389	67,110	120,499	1,000	3,113	4,112
245194	88		SOUTHERN BELL-SC	902,583	1,198,048	2,100,631	16,036	48,968	65,005
250293	88		GTE SOUTH INC. - AL	109,126	111,605	220,731	3,587	9,140	12,727
255181	88		SO CENTRAL BELL-AL	1,073,142	1,471,425	2,544,567	23,072	88,003	111,075
260407	88		GTE SOUTH INC. - KY	207,418	309,809	517,228	1,873	3,823	5,697
265061	88		CINCINNATI BELL-KY	82,096	114,565	196,660	115	784	899
265182	88		SO CENTRAL BELL-KY	666,904	888,403	1,555,307	20,520	82,194	102,714
275183	88		SO CENTRAL BELL-LA	1,322,808	1,758,370	3,081,178	30,407	90,054	120,461
285184	88		SO CENTRAL BELL-MS	797,429	1,037,150	1,834,578	16,707	76,260	92,967
290479	88		GTE SOUTH INC. - TN	27,497	43,761	71,258	263	883	1,146
290567	88		UNITED INTER-MT-TN	123,816	204,114	327,930	19,035	13,708	32,743
295185	88		SO. CENTRAL BELL -TN	1,619,717	2,126,886	3,746,603	48,452	103,882	152,334

TABLE 4.7

 1988 TIER 1 COMPANIES NETWORK USAGE DATA
 MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
300615	88	GTE NORTH INC. - OH	292,262	380,580	672,843	1,013	7,946	8,959
300630	88	CENDEL OF OHIO	33,442	42,024	75,465	1,418	4,440	5,858
300661	88	UTC OF OHIO	244,187	369,623	613,810	18,030	66,031	84,061
305062	88	CINCINNATI BELL-OH	443,871	680,389	1,124,260	14,923	21,710	36,633
305150	88	OHIO BELL TEL CO	2,082,920	2,939,361	5,022,281	42,103	93,345	135,448
310695	88	GTE NORTH INC. - MI	227,193	290,501	517,695	459	16,785	17,244
315090	88	MICHIGAN BELL TEL CO	2,446,216	3,358,489	5,804,706	23,493	155,235	178,728
320772	88	GTE NORTH INC. - IN	426,396	565,042	991,439	2,379	16,389	18,768
320832	88	UTC OF INDIANA	105,970	121,744	227,713	2,934	2,759	5,694
325080	88	INDIANA BELL TEL CO	1,116,212	1,722,616	2,838,828	15,885	102,029	117,914
330886	88	GTE NORTH INC. - WI	183,273	233,443	416,717	587	5,125	5,712
335220	88	WISCONSIN BELL	1,078,540	1,632,999	2,711,539	9,207	118,185	127,393
340985	88	CENDEL OF ILLINOIS	139,986	175,932	315,919	1,384	4,363	5,748
341015	88	GTE NORTH INC. - IL	291,975	405,314	697,289	135	8,717	8,852
345070	88	ILLINOIS BELL TEL CO	4,361,266	5,272,117	9,633,383	31,080	158,135	189,216
351186	88	GTE NORTH INC. - IA	54,802	79,289	134,092	236	746	982
351317	88	UTC OF IOWA	35,783	44,980	80,763	4	12	15
355141	88	NORTHWESTERN BELL-IA	727,067	1,051,472	1,778,539	143,576	234,256	377,832
361186	88	GTE NORTH INC. - MN	1,956	2,199	4,155	3	10	13
361367	88	CENDEL OF MN	49,361	61,999	111,360	2	5	7
361456	88	UTC OF MINNESOTA	43,031	54,093	97,125	50	157	207
365142	88	NORTHWESTERN BELL-MN	1,123,270	1,667,462	2,790,732	82,650	207,145	289,794
371186	88	GTE NORTH INC. - NE	21,302	33,946	55,248	121	58	179
371568	88	LINCOLN TEL & TEL CO	138,114	193,234	331,348	657	11,076	11,733
371595	88	UTC OF THE WEST-NE	18,306	23,022	41,328	23	72	95
375143	88	NORTHWESTERN BELL-NE	348,971	555,567	904,538	44,243	98,202	142,445
385144	88	NORTHWESTERN BELL-ND	234,178	292,065	526,243	6,248	32,012	38,260
395145	88	NORTHWESTERN BELL-SD	206,305	297,247	503,552	24,166	71,504	95,670
401728	88	UTC OF ARKANSAS	12,518	15,733	28,251	0	0	0
402080	88	GTE SOUTHWEST INC-AR	45,494	56,772	102,266	155	427	582
405211	88	SOUTHWESTERN BELL-AR	562,411	774,071	1,336,482	17,649	83,347	100,996
411842	88	UTC OF KANSAS	42,992	54,015	97,007	250	792	1,042
415214	88	SOUTHWESTERN BELL-KS	879,818	1,109,162	1,988,980	21,366	93,858	115,224
421186	88	GTE NORTH INC. - MO	62,482	90,957	153,439	1,148	1,804	2,953
421957	88	UTC OF MISSOURI	91,324	114,771	206,095	5,238	16,521	21,759
425213	88	SOUTHWESTERN BELL-MO	1,521,325	2,140,040	3,661,365	44,671	153,469	198,140
432080	88	GTE SOUTHWEST INC-OK	78,548	84,942	163,489	44	635	679
435215	88	SOUTHWESTERN BELL-OK	1,004,009	1,312,929	2,316,939	26,081	105,513	131,594
442080	88	GTE SOUTHWEST INC-TX	729,689	818,388	1,548,077	3,420	22,720	26,140
442084	88	UTC OF TEXAS INC	27,743	34,871	62,613	1,468	4,641	6,109
442114	88	CENDEL OF TEXAS	78,337	98,251	176,588	37	116	153
442154	88	CONTEL OF TEXAS	56,972	59,307	116,279	4,296	14,825	19,121
445216	88	SOUTHWESTERN BELL-TX	4,358,279	5,908,029	10,266,309	87,233	285,520	372,753
455101	88	MOUNTAIN BELL - AZ	2,084,912	2,237,888	4,322,800	103,087	128,050	231,137

TABLE 4.7

1988 TIER 1 COMPANIES NETWORK USAGE DATA
MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
465102	88	MOUNTAIN BELL-CO	1,640,218	2,343,382	3,983,601	40,743	128,876	169,619
472416	88	GTE NORTHWEST INC-ID	91,256	114,108	205,364	3,545	20,005	23,550
475103	88	MOUNTAIN BELL-ID	296,786	409,834	706,621	13,289	31,681	44,970
475162	88	PACIFIC NW BELL-ID	22,089	27,450	49,539	1,640	1,394	3,033
482416	88	GTE NORTHWEST INC-MT	6,022	6,938	12,960	72	85	157
485104	88	MOUNTAIN BELL-MT	267,177	334,248	601,425	22,203	41,325	63,529
492080	88	GTE SOUTHWEST INC-NM	38,696	35,037	73,733	0	4	4
495105	88	MOUNTAIN BELL-NM	541,963	679,653	1,221,616	41,282	118,716	159,998
505107	88	MOUNTAIN BELL-UT	630,236	811,239	1,441,476	64,911	69,230	134,142
511595	88	UTC OF THE WEST-WY	5,347	6,720	12,067	0	0	0
515108	88	MOUNTAIN BELL-WY	270,356	293,768	564,124	3,121	44,023	47,144
522400	88	UTC OF THE NW-WA	31,623	39,747	71,369	834	2,647	3,480
522416	88	GTE NORTHWEST INC-WA	373,159	362,199	735,358	7,173	6,046	13,220
525161	88	PACIFIC NW BELL-WA	1,585,386	1,924,436	3,509,822	30,500	79,488	109,988
532400	88	UTC OF THE NW - OR	30,606	38,454	69,060	440	1,394	1,835
532416	88	GTE NORTHWEST INC-OR	234,299	249,835	484,134	6,614	2,172	8,786
535163	88	PACIFIC NW BELL-OR	778,008	1,138,740	1,916,748	10,428	54,912	65,340
542302	88	CONTEL OF CALIFORNIA	135,319	142,127	277,447	9,828	17,809	27,637
542319	88	GTC OF CALIFORNIA	1,989,140	1,981,525	3,970,665	9,779	29,041	38,820
542344	88	WEST COAST TEL OF CA	6,085	6,267	12,352	303	345	648
545170	88	PACIFIC BELL	8,176,616	9,718,194	17,894,810	49,450	234,852	284,302
552348	88	CENTEL OF NV	601,004	564,474	1,165,479	1,582	2,554	4,136
555173	88	NEVADA BELL	246,422	292,720	539,141	5,623	23,489	29,113
565010	88	DIAMOND STATE TEL	483,898	618,974	1,102,872	0	254	254
575020	88	C & P TEL CO OF WASH	816,825	1,107,291	1,924,115	10,284	6,587	16,871
585114	88	NEW ENGLAND TEL - RI	557,616	687,492	1,245,108	17,107	43,387	60,493
623100	88	GTE HAWAIIAN TEL. CO	434,653	479,731	914,384	13,067	11,370	24,437
633201	88	PUERTO RICO TEL CO	342,998	489,263	832,261	0	80,972	80,972
116		TIER 1 CO's TOTALS	99,450,654	124,601,887	224,052,550	2,060,146	6,494,736	8,554,891

TABLE 4.8

1987 NONTIER 1 COMPANIES NETWORK USAGE
MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
100003	87	LINCOLNVILLE TEL CO	720	904	1,624	53	123	176
100004	87	CHINA TEL CORP	1,217	1,532	2,749	0	0	0
100010	87	HAMPDEN TEL CO	1,062	1,338	2,401	0	0	0
100011	87	HARTLAND & ST ALBANS	1,261	1,587	2,847	0	0	0
100014	87	CONTEL OF MAINE	24,990	31,395	56,385	1,061	2,398	3,459
100024	87	SOMERSET TEL CO	4,966	6,247	11,213	0	0	0
100025	87	STANDISH TEL CO	3,642	4,579	8,220	0	0	0
100027	87	UNION RIVER TEL CO	323	406	728	0	0	0
100029	87	UNITY TEL CO., INC.	1,747	2,202	3,949	0	0	0
100031	87	WARREN TEL CO	719	904	1,623	0	0	0
100034	87	WEST PENOBSCOT TEL	795	1,002	1,797	0	0	0
120038	87	BRETTON WOODS TEL CO	294	368	662	0	0	0
120039	87	GRANITE STATE TEL	5,760	7,252	13,012	0	0	0
120041	87	CONTEL OF NH	10,243	12,923	23,165	386	872	1,258
120045	87	KEARSARGE TEL CO	5,378	6,776	12,154	0	0	0
120046	87	MERIDEN TEL CO	551	694	1,245	0	0	0
120047	87	MERRIMAK COUNTY TEL	5,040	6,341	11,381	0	0	0
120049	87	UNION TEL CO	3,818	4,818	8,636	0	0	0
120050	87	WILTON TEL CO - NH	2,527	3,183	5,710	0	0	0
140058	87	LUDLOW TEL CO	2,681	3,371	6,052	0	0	0
140061	87	NORTHFIELD TEL CO	2,861	3,616	6,476	0	0	0
140062	87	PERKINSVILLE TEL CO	710	893	1,603	0	0	0
140068	87	TOPSHAM TEL CO	785	988	1,774	0	0	0
140069	87	WAITSFIELD/FAYSTON	4,137	5,215	9,352	20	46	66
140070	87	CONTEL OF VERMONT	31,653	39,850	71,502	127	286	413
150071	87	ARMSTRONG TEL CO-NY	1,732	2,181	3,913	0	0	0
150072	87	AU SABLE VALLEY TEL	2,393	3,019	5,411	0	0	0
150073	*	BERKSHIRE TEL CORP	2,295	2,876	5,171	95	196	291
150077	87	CHAMPLAIN TEL CO	3,699	4,657	8,356	528	1,197	1,725
150078	87	CHAUTAUQUA & ERIE	5,424	6,824	12,248	475	1,116	1,591
150079	*	CHAZY & WESTPORT	1,359	1,702	3,061	0	0	0
150081	87	CITIZENS HAMMOND NY	309	388	697	0	0	0
150082	87	CLYMER TEL CO	800	1,008	1,807	32	85	117
150084	87	TACONIC TEL CORP	12,060	15,186	27,247	14	36	49
150085	87	CROWN POINT TEL CORP	355	446	800	0	1	1
150088	*	DELHI TEL CO	1,481	1,860	3,341	1	2	2
150091	87	DUNKIRK & FREDONIA	2,915	3,676	6,590	563	1,289	1,851
150092	87	EDWARDS TEL CO	599	754	1,352	0	0	0
150093	87	EMPIRE TEL CORP	2,911	3,662	6,573	264	627	891
150097	87	GERMANTOWN TEL CO	965	1,216	2,181	0	0	0
150099	87	HANCOCK TEL CO	801	1,008	1,809	1	2	2
150100	87	HIGHLAND TEL CO	34,399	43,326	77,725	0	0	0
150104	*	MARGARETVILLE TEL CO	970	1,213	2,183	0	0	0
150105	87	MIDDLEBURGH TEL CO	1,980	2,495	4,475	0	0	0

TABLE 4.8

 1987 NONTIER 1 COMPANIES NETWORK USAGE
 MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
150106	87	ALLTEL NY-FULTON	16,625	20,928	37,553	1,019	2,707	3,727
150107	*	NEWPORT TEL CO	827	1,037	1,865	0	0	0
150108	87	NICHOLVILLE TEL CO	590	744	1,334	48	109	156
150109	87	ALLTEL NY-JAMESTOWN	23,524	29,633	53,157	350	929	1,280
150110	87	OGDEN TEL CO	6,055	7,630	13,686	0	0	0
150111	*	ONEIDA COUNTY RURAL	1,023	1,283	2,307	81	195	276
150113	87	ALLTEL NY-RED JACKET	684	862	1,546	62	146	207
150118	*	PORT BYRON TEL CO	724	908	1,632	0	0	0
150119	87	RED HOOK TEL CO	7,503	9,658	17,161	83	1,060	1,143
150122	87	SENECA-GORHAM TEL	2,575	3,246	5,821	0	0	0
150128	87	SYLVAN LAKE TEL CO	6,999	8,814	15,813	0	0	0
150133	87	VERNON TEL CO	923	1,163	2,087	77	208	286
150135	87	WARWICK VALLEY-NY	9,459	11,911	21,370	2	4	6
150136	87	WESTERN COUNTIES TEL	11,356	14,249	25,605	7	2,580	2,587
160135	87	WARWICK VALLEY-NJ	4,817	6,065	10,881	0	0	0
170170	87	CONTEL OF PA	29,794	37,595	67,389	489	1,067	1,555
170177	87	LACKAWAXEN TEL CO	1,767	2,214	3,980	0	0	0
170189	87	ARMSTRONG TEL CO-PA	776	978	1,754	0	0	0
170192	87	NORTH PENN TEL CO	3,604	4,539	8,143	64	156	220
170194	87	OSWAYO RIVER TEL CO	1,425	1,797	3,223	0	0	0
170201	87	QUAKER STATE TEL CO	21,675	27,277	48,952	113	255	368
170206	87	SUGAR VALLEY TEL CO	203	256	459	0	0	0
170210	*	VENUS TEL CORP	385	482	867	0	0	0
180216	87	ARMSTRONG TEL OF MD	4,051	5,100	9,151	0	0	0
190217	87	AMELIA TEL CORP	1,261	1,587	2,848	0	0	0
190249	87	ROANOKE & BOTETOURT	4,498	5,674	10,172	342	784	1,126
200259	87	HARDY TEL CO	1,223	1,539	2,762	0	0	0
200270	87	MOUNTAIN STATE TEL	12,500	15,753	28,253	0	0	0
200278	87	CONTEL OF WV	17,274	21,726	39,000	22	50	72
210291	87	FLORALA TEL CO	1,956	2,466	4,422	0	0	0
210318	87	SOUTHLAND TEL-FL	1,780	2,241	4,021	158	380	538
210329	87	GULF TEL CO	3,739	4,708	8,447	176	356	531
210330	87	VISTA-UNITED TELCOM	11,255	14,185	25,440	5,763	12,768	18,531
210331	87	INDIANTOWN SYSTEM	1,247	1,571	2,817	351	798	1,150
210335	87	NORTHEAST FLORIDA	2,263	2,847	5,110	80	182	262
210336	87	ALLTEL FLORIDA INC.	25,526	32,123	57,649	94	235	328
210338	87	QUINCY TEL CO-FL DIV	4,344	5,477	9,821	0	0	0
210339	87	ST JOSEPH TEL & TEL	12,511	15,749	28,260	328	747	1,074
220281	87	CONTEL OF SOUTH - GA	24,359	30,680	55,039	1,068	2,404	3,472
220324	87	VALLEY TEL CO - GA	2,419	3,057	5,476	0	0	0
220338	87	QUINCY TEL CO-GA DIV	576	726	1,301	0	0	0
220344	87	ALMA TEL CO	2,064	2,597	4,661	2	5	7
220347	87	BRANTLEY TEL CO	1,242	1,564	2,806	0	0	0
220351	87	CAMDEN TEL & TEL CO	12,133	15,295	27,428	110	274	384

TABLE 4.8

1987 NONTIER 1 COMPANIES NETWORK USAGE
MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
220355	87	CITIZENS TEL CO - GA	1,622	2,041	3,663	0	0	0
220356	87	COASTAL UTILITIES	19,832	24,989	44,821	0	0	0
220358	87	DARIEN TEL CO	1,775	2,235	4,010	0	0	0
220360	87	ELLIJAY TEL CO	2,165	2,726	4,892	0	0	0
220371	87	INTERSTATE TEL CO	5,750	7,268	13,018	0	0	0
220377	87	PINELAND TEL COOP	3,026	3,815	6,841	0	0	0
220379	87	PLANT TEL. CO.	2,596	3,267	5,864	0	0	0
220381	87	PUBLIC SERVICE TEL	2,667	3,354	6,022	6	14	20
220386	87	STANDARD TEL CO	16,915	21,308	38,223	51	120	171
220392	87	WAVERLY HALL TEL CO	736	928	1,664	0	0	0
220394	87	WILKES TEL & ELC CO	3,207	4,037	7,243	0	0	0
230468	87	ATLANTIC MEMBERSHIP	9,597	12,085	21,682	0	0	0
230469	87	BARNARDSVILLE TEL CO	398	501	900	0	0	0
230473	87	CITIZENS TEL CO	8,173	10,270	18,443	473	1,098	1,571
230474	87	CONCORD TEL CO	28,149	35,462	63,612	3,238	7,411	10,650
230476	87	ALLTEL CAROLINA-NO	54,242	68,265	122,506	290	670	960
230481	87	HEINS TEL CO	10,106	12,729	22,835	47	111	158
230502	87	STAR MEMBERSHIP CORP	4,513	5,670	10,183	0	0	0
230509	87	CONTEL OF NC	54,481	68,583	123,064	1,131	2,546	3,677
230510	87	WILKES MEMBERSHIP	1,849	2,327	4,175	0	0	0
240512	87	BLUFFTON TEL. CO.	2,630	3,316	5,946	144	329	473
240520	87	FARMERS TEL COOP	24,869	31,274	56,143	1,953	4,526	6,480
240523	87	HARGRAY TEL CO	31,066	39,107	70,173	3,251	7,399	10,650
240526	87	CONTEL OF SC	10,639	13,404	24,044	870	1,959	2,829
240528	87	HORRY TEL COOP	26,473	33,305	59,778	379	943	1,323
240533	87	MCCLELLANVILLE TEL	825	1,039	1,864	0	0	0
240539	87	POND BRANCH TEL CO	2,715	3,418	6,133	345	910	1,255
240551	87	WILLISTON TEL CO	1,742	2,193	3,936	4	8	11
250281	87	CONTEL OF THE SOUTH	46,085	58,044	104,129	455	1,015	1,469
250284	87	BUTLER TEL CO	2,285	2,876	5,160	0	0	0
250295	*	GRACEBA TOTAL COMM	1,953	2,450	4,403	0	0	0
250297	87	GROVE HILL TEL CORP	583	734	1,316	0	0	0
250298	87	GULF TEL CO - AL	16,279	20,382	36,661	0	0	0
250300	87	HOPPER TEL. CO INC	625	788	1,413	0	0	0
250304	87	MILLRY TEL CO	2,586	3,255	5,841	0	0	0
250306	87	MONROEVILLE TEL CO	6,629	8,342	14,971	0	0	0
250314	87	PEOPLES TEL CO	5,170	6,512	11,683	0	0	0
250315	*	PINE BELT TEL CO	671	839	1,511	0	0	0
250316	87	RAGLAND TEL CO	292	367	659	0	0	0
250318	87	SOUTHLAND TEL CO-AL	6,048	7,623	13,671	36	77	114
250461	87	SOUTHEAST MS TEL CO	865	1,089	1,954	0	0	0
260410	87	CONTEL OF KENTUCKY	34,708	43,724	78,432	111	251	361
270422	87	ATHENS TEL CO	121	152	273	3	5	8
270423	87	CENTRAL LOUISIANA	4,034	5,082	9,116	97	179	276

TABLE 4.8

 1987 NONTIER 1 COMPANIES NETWORK USAGE
 MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
270424	87	COASTAL TEL & ELECTR	2,471	3,109	5,580	66	121	187
270425	87	CAMERON TEL CO - LA	2,563	3,229	5,791	126	233	359
270427	*	CHATHAM TEL CO	358	449	807	4	8	12
270429	87	EAST ASCENSION TEL	8,543	10,762	19,306	99	236	335
270430	87	ELIZABETH TEL CO	808	1,016	1,825	17	32	49
270431	87	CADDOAN TEL CO	4,487	5,654	10,141	48	89	137
270433	87	LAFORCHE TEL CO	3,294	4,146	7,440	424	939	1,363
270434	87	EVANGELINE TEL CO	7,307	9,209	16,517	183	339	522
270435	87	NORTHEAST LOUISIANA	609	767	1,377	0	0	0
270436	87	CENTURY NORTH LA	511	643	1,153	7	13	20
270437	87	PLAIN DEALING TEL CO	779	980	1,759	12	23	36
270439	*	RINGGOLD TEL CO	591	739	1,330	0	0	0
270440	87	CENTURY TEL CO	591	744	1,335	11	21	32
270442	87	LOUISIANA WESTERN	1,291	1,627	2,919	26	49	75
270443	87	UTC OF LUISIANA	1,194	1,503	2,698	15	28	43
280446	87	BAY SPRINGS TEL CO	4,750	5,985	10,735	0	0	0
280451	*	DECATUR TEL CO -MS	509	638	1,148	0	0	0
280452	87	DELTA TEL CO	1,302	1,640	2,942	0	0	0
280454	87	FRANKLIN TEL CO - MS	2,854	3,591	6,445	3	6	9
280458	87	HOME TEL CO-OLIVE BR	7,764	9,774	17,538	35	65	101
280459	87	HUGHES TEL CO	2,166	2,725	4,892	0	0	1
280464	87	NOXAPATER TEL CO	255	321	575	0	0	0
280466	*	SLEDGE TEL CO	235	294	529	0	0	0
290552	87	ADAMSVILLE TEL CO	2,427	3,055	5,482	129	282	411
290571	87	MILLINGTON TEL CO	18,970	23,916	42,887	0	0	0
290575	87	TENNESSEE TEL CO	17,974	22,616	40,590	829	1,783	2,611
290579	87	TWIN LAKES TEL COOP	7,551	9,509	17,060	0	0	0
300597	87	THE CHILLICOTHE TEL	7,894	9,945	17,839	303	687	990
300607	87	CONTEL OF OHIO	627	789	1,415	0	0	0
300613	87	FAYETTEVILLE TEL CO	514	646	1,159	0	0	0
300649	*	ORWELL TEL CO	2,191	2,748	4,939	0	0	0
300665	87	ALLTEL OHIO-WEST OH	7,655	9,632	17,287	128	300	428
300682	87	C, C & S TELCO -OHIO	301	379	681	0	0	0
310678	*	BLANCHARD TEL ASSN	224	280	504	0	0	0
310679	87	BLOOMINGDALE TEL CO	617	777	1,394	0	0	0
310680	87	CHIPPEWA COUNTY TEL	253	318	571	0	0	0
310681	87	ALLTEL MICHIGAN INC.	19,601	24,701	44,303	11	25	35
310682	87	C, C & S TELCO - MI	6,773	8,540	15,313	0	0	0
310683	87	CARR TEL CO	297	373	670	0	1	1
310685	87	CHATHAM TEL CO - MI	938	1,179	2,117	0	0	0
310687	87	CLAYTON TEL CO	225	282	507	0	0	0
310699	87	HICKORY TEL CO	659	828	1,487	0	0	0
310702	87	CENTURY OF MICHIGAN	13,462	16,978	30,439	17	41	58
310704	87	ACE TEL OF MICHIGAN	1,027	1,294	2,321	0	0	0

TABLE 4.8

 1987 NONTIER 1 COMPANIES NETWORK USAGE
 MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
310711	87	MIDWAY TEL CO	333	420	754	0	0	0
310713	87	HIAWATHA TEL CO	1,651	2,076	3,727	51	106	157
310717	87	ONTONAGON COUNTY TEL	2,079	2,614	4,693	0	0	0
310721	87	PIGEON TEL CO	833	1,049	1,882	0	0	0
310728	87	SPRINGPORT TEL CO	484	610	1,094	0	0	0
310732	87	UPPER PENINSULA TEL	2,022	2,542	4,564	0	0	0
310734	*	WALDRON TEL CO	358	449	807	0	0	0
310735	*	WESTPHALIA TEL CO	94	118	212	0	0	0
310738	87	WOLVERINE TEL CO	2,100	2,643	4,743	0	0	0
320753	87	CLAY CTY RURAL COOP	2,104	2,649	4,753	0	0	0
320762	87	ELNORA TEL CO	144	181	324	0	0	0
320778	87	HOME TEL CO INC	591	743	1,334	0	0	0
320779	87	CONTEL OF INDIANA	69,210	87,205	156,415	2,098	4,841	6,939
320797	87	NEW PARIS TEL INC	895	1,127	2,023	0	0	0
320800	87	NORTHWESTERN INDIANA	5,495	6,922	12,417	0	0	0
320807	*	PERRY-SPENCER RURAL	1,428	1,794	3,222	0	0	0
320813	*	PULASKI-WHITE RURAL	524	657	1,181	0	0	0
320830	*	TRI-COUNTY TEL CO	1,158	1,450	2,608	0	0	0
320839	*	YEOMAN TEL CO, INC	318	399	717	0	0	0
330841	87	CENCOM OF WISCONSIN	9,779	12,297	22,076	0	0	0
330842	*	AMERY TEL CO	3,550	4,448	7,998	0	0	0
330843	*	AMHERST TEL CO	1,201	1,504	2,705	0	0	0
330844	87	BADGER TELECOM, INC.	1,413	1,779	3,193	0	0	0
330851	87	BONDUEL TEL CO	441	555	996	0	0	0
330855	*	BRUCE TEL CO, INC	698	875	1,573	0	0	0
330856	87	BURLINGTON B&W	1,899	2,391	4,291	0	0	0
330857	*	CASCO TEL CO	195	244	439	0	0	0
330858	*	LAKESHORE TEL CO	295	369	664	0	0	0
330859	87	CENTRAL STATE TEL CO	2,475	3,117	5,592	0	0	0
330860	87	CHEQUAMEGON TEL COOP	2,820	3,553	6,372	0	0	0
330861	*	CHIBARDUM TEL COOP	1,855	2,324	4,179	0	0	0
330870	87	CRANDON TEL CO	635	799	1,435	0	0	0
330876	87	DODGE COUNTY TEL CO	245	309	554	0	0	0
330882	87	FENNIMORE TEL CO	595	749	1,345	0	0	0
330883	87	FOOTVILLE TEL CO	368	462	830	0	0	0
330888	87	GREENWOOD TEL CO	427	537	963	0	0	0
330889	*	HAGER CITY TEL CO	1,069	1,340	2,408	0	0	0
330891	87	HEADWATERS TEL CO	1,413	1,775	3,188	0	0	0
330892	*	HILLSBORO TEL CO	440	551	991	0	0	0
330895	87	CENTURY OF WISCONSIN	31,481	39,690	71,171	2,201	4,995	7,196
330898	87	LARSEN-READFIELD TEL	514	647	1,161	0	0	0
330900	*	LEMONWEIR VALLEY TEL	1,406	1,764	3,170	0	0	0
330905	*	MANAWA TEL CO	542	680	1,223	0	0	0
330908	87	MARQUETTE-ADAMS COOP	1,259	1,589	2,849	3	7	10

TABLE 4.8

 1987 NONTIER 1 COMPANIES NETWORK USAGE
 MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
330909	87	MIDWAY TEL CO	2,502	3,153	5,655	0	0	0
330910	*	MILLTOWN MUTUAL TEL	1,242	1,553	2,795	0	0	0
330913	87	MONROE COUNTY TEL CO	5,010	6,303	11,313	0	0	0
330914	87	MOSEL & CENTERVILLE	1,073	1,353	2,426	0	0	0
330916	87	MOUNT HOREB TEL CO	1,148	1,446	2,594	3	7	9
330917	87	MT VERNON TEL CO	2,438	3,069	5,507	0	0	0
330920	*	NIAGARA TEL CO	4,462	5,583	10,045	0	0	0
330922	87	NORTH-WEST TEL CO	23,008	28,982	51,991	0	0	0
330925	*	BAYLAND TEL CO	450	564	1,013	0	0	0
330931	87	PEOPLES TEL CO	2,010	2,532	4,542	0	0	0
330934	+	PLATTEVILLE TEL CO	3,724	4,697	8,420	0	0	0
330936	87	INDIANHEAD TEL CO	850	1,070	1,920	0	0	0
330937	+	PRICE COUNTY TEL CO	1,467	1,848	3,315	0	0	0
330940	87	RHINELANDER TEL CO	4,672	5,880	10,552	0	0	0
330941	*	RIB LAKE TEL CO	321	402	722	0	0	0
330943	87	ROCK RIVER TEL CO	761	959	1,720	0	0	0
330945	87	SCANDINAVIA TEL CO	683	859	1,542	0	0	0
330948	*	SHELL LAKE TEL CO	927	1,163	2,090	0	0	0
330949	*	SIREN TEL CO, INC	1,033	1,294	2,327	0	0	0
330950	87	OLON SPRINGS TEL CO	7,355	9,259	16,614	1	3	4
330952	87	SE TEL OF WISCONSIN	2,344	2,952	5,296	0	0	0
330954	87	STOCKBRIDGE & SHERWD	607	764	1,371	0	0	0
330956	87	UNIVERSAL OF N WISC	4,304	5,412	9,716	1	2	2
330959	*	THORP TEL CO	785	983	1,768	0	0	0
330961	*	TURTLE LAKE TEL CO	496	621	1,117	0	0	0
330963	87	UTELCO, INC	7,488	9,428	16,915	66	162	228
330964	87	URBAN TEL CORP	5,180	6,519	11,698	49	112	161
330965	87	VALDERS TEL CO	491	617	1,108	0	0	0
330967	*	VIROQUA TEL CO	1,305	1,636	2,941	0	0	0
330973	*	WITTENBERG TEL CO	494	619	1,113	0	0	0
330974	87	WOOD COUNTY TEL CO	8,393	10,570	18,963	27	67	94
341000	87	ALLTEL ILLINOIS INC.	26,451	33,213	59,664	49	116	165
341003	*	EGYPTIAN COOP ASSN	982	1,230	2,212	1	2	2
341004	87	EL PASO TEL CO	746	941	1,687	3	6	9
341009	*	C-R TEL CO	304	381	686	0	1	1
341011	87	LAKESIDE TEL CO	299	376	675	0	0	0
341023	87	GRIDLEY TEL CO	642	808	1,450	3	7	10
341036	87	CONTEL OF ILLINOIS	98,547	124,100	222,647	1,430	3,095	4,524
341037	87	IL CONSOLIDATED TEL	31,718	39,945	71,662	6,174	14,288	20,462
341038	87	INLAND TEL CO	1,671	2,104	3,774	0	0	0
341045	87	LEAF RIVER VLY TEL	212	266	478	0	0	0
341055	87	MIDLAND TEL CO	1,402	1,763	3,165	0	0	0
341060	87	MOULTRIE INDEPENDENT	187	235	422	0	0	0
341073	87	PRAIRIE TEL CO	352	443	795	0	0	0

TABLE 4.8

1987 NONTIER 1 COMPANIES NETWORK USAGE
MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
351105	87	AYRSHIRE FARMERS MUT	164	206	370	0	0	0
351110	87	BERNARD TEL CO INC	197	248	444	0	0	0
351113	*	BROOKLYN MUTUAL TEL	485	606	1,090	0	0	0
351153	*	DUNKERTON TEL COOP	293	367	661	0	0	0
351207	87	CONTEL OF IOWA, INC.	34,012	42,849	76,861	0	0	0
351214	*	KALONA COOP TEL CO	865	1,081	1,946	0	0	0
351229	87	LOST NATION-ELWOOD	248	313	561	0	0	0
351316	87	UNITED FARMERS TEL	331	417	748	0	0	0
351327	87	WEBB-DICKENS TEL	211	265	476	0	0	0
351329	*	WELLMAN COOP TEL	465	583	1,048	0	0	0
351346	87	ACE TEL ASSN-IA	1,491	1,878	3,368	0	0	0
351888	87	GRAND RIVER MUT-IA	3,912	4,924	8,835	0	0	0
361140	87	CONTEL OF MINNESOTA	40,013	50,373	90,386	0	0	0
361346	87	ACE TEL ASSN-MN	4,505	5,672	10,177	0	0	0
361350	87	ARVIG TEL CO	3,160	3,968	7,128	21	49	70
361357	*	BLACKDUCK TEL CO	426	534	960	0	0	0
361362	87	BRIDGEWATER TEL CO	2,245	2,828	5,073	0	0	0
361370	87	CLARA CITY TEL EXCH	409	515	924	0	0	0
361373	*	CONSOLIDATED TEL CO	1,966	2,457	4,422	0	0	0
361374	87	ARROWHEAD COMM CORP	149	187	335	0	0	0
361379	87	DEER RIVER TEL CO	586	738	1,324	0	0	0
361383	*	EAGLE VALLEY TEL CO	176	221	396	0	0	0
361385	87	EAST OTTER TAIL TEL	5,084	6,401	11,486	4	12	16
361387	*	EMILY COOP TEL CO	292	365	657	0	0	0
361395	87	GARDEN VALLEY TEL CO	6,423	8,087	14,509	5	12	16
361399	*	GRANADA TEL CO	77	97	174	0	0	0
361401	*	HALSTAD TEL CO	1,074	1,346	2,421	0	0	1
361410	87	JOHNSON TEL CO	466	586	1,052	0	0	0
361414	87	LAKEDALE TEL CO	2,442	3,071	5,513	6	18	24
361425	*	MADELIA TEL CO	557	699	1,256	0	0	0
361433	87	MID STATE TEL CO	1,931	2,430	4,360	0	0	0
361442	87	NEW ULM TELECOM, INC	4,047	5,101	9,148	0	0	0
361443	87	NORMAN COUNTY TEL CO	1,886	2,374	4,260	0	0	0
361445	*	NORTHLAND TEL CO	240	301	540	0	0	0
361451	87	PAUL BUNYAN RURAL	2,162	2,720	4,882	0	0	0
361482	*	SHERBURNE CTY RURAL	1,880	2,355	4,235	0	0	0
361483	87	SLEEPY EYE TEL CO	1,542	1,940	3,482	0	0	0
361487	*	STARBUCK TEL CO	344	431	774	0	0	0
361491	+	TWIN VALLEY-ULEN TEL	1,122	1,412	2,534	0	0	0
361499	*	CROSSLAKE TEL CO	381	476	857	0	0	0
371516	87	ARAPAHOE TEL CO	442	557	999	0	0	0
371517	87	ARLINGTON TEL CO	539	677	1,216	0	0	0
371524	87	BLAIR TEL CO	5,032	6,329	11,362	0	0	0
371525	87	THREE RIVER TELCO	670	843	1,513	0	0	0

TABLE 4.8

1987 NONTIER 1 COMPANIES NETWORK USAGE
MINUTES OF USE (IN THOUSANDS)

F CODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
371530	*	CONSOLIDATED TELCO	740	927	1,666	0	0	0
371531	*	CLARKS TEL CO	325	407	732	0	0	0
371534	87	COZAD TEL CO	1,171	1,473	2,644	0	0	0
371536	87	CURTIS TEL CO	320	403	724	0	0	0
371537	87	DALTON TEL CO, INC	811	1,021	1,832	0	0	0
371540	87	DILLER TEL CO	247	310	557	0	0	0
371542	87	EASTERN NEBRASKA TEL	2,086	2,619	4,705	0	0	0
371553	*	GLENWOOD TEL MEMBER	1,043	1,306	2,349	0	0	0
371557	87	HARTMAN TEL EXCH INC	347	437	784	1	3	5
371558	87	HEMINGFORD COOP TEL	474	596	1,070	0	0	0
371561	*	HERSHEY COOP TEL CO	453	568	1,021	0	0	0
371565	*	K & M TEL CO, INC	266	334	600	3	7	11
371567	87	KEYSTONE-ARTHUR TEL	213	268	481	0	0	0
371574	87	NEBRASKA CENTRAL TEL	1,885	2,370	4,255	0	0	0
371576	*	NORTHEAST NEBRASKA	1,781	2,233	4,014	0	0	0
371577	87	GREAT PLAINS COMMUN	12,768	16,077	28,845	0	0	0
371580	87	PETERSBURG TEL CO	119	149	268	0	0	0
371581	*	PIERCE TEL CO	546	685	1,231	0	0	0
371586	87	ROCK COUNTY TEL CO	559	704	1,263	0	0	0
371587	*	RODEO TEL CO	1,052	1,318	2,369	0	0	0
371591	87	SE NEBRASKA TEL CO	2,580	3,236	5,816	0	0	0
371592	87	STANTON TEL CO, INC	349	439	788	0	0	0
371597	87	WAUNETA TEL CO	419	526	945	0	0	0
372455	87	BENKELMAN TEL CO	793	996	1,789	0	0	0
381447	87	CONTEL OF N. DAKOTA	4,995	6,294	11,289	0	0	0
381604	*	BEK TEL MUTUAL AID	1,702	2,133	3,835	0	0	0
381607	87	CONSOLIDATED COOP	2,401	3,024	5,426	0	0	0
381610	*	DAKOTA CENTRAL RURAL	1,173	1,470	2,644	0	0	0
381611	*	DICKEY RURAL COOP	1,532	1,919	3,450	0	0	0
381616	87	INTER-COMMUNITY TEL	611	769	1,380	0	0	0
381617	87	MIDSTATE TEL CO	912	1,148	2,060	0	1	1
381625	*	NORTHWEST COMM COOP	1,748	2,190	3,939	0	0	0
381630	87	POLAR COMM MUT AID	4,973	6,262	11,236	0	0	0
381632	87	RESERVATION TEL COOP	2,441	3,073	5,514	4	11	15
381634	87	SOURIS RIVER TEL MUT	9,585	12,066	21,651	0	0	0
381636	*	UNITED TEL MUTUAL	2,280	2,858	5,139	0	0	0
381637	87	W. RIVER MUTUAL AID	5,156	6,493	11,649	0	0	0
391643	87	CONTEL OF S. DAKOTA	4,490	5,649	10,138	148	336	484
391645	*	BROOKINGS-LAKE TEL	1,370	1,718	3,088	0	0	0
391647	87	CHEYENNE RIVER SIOUX	1,037	1,306	2,343	0	0	0
391659	87	GOLDEN WEST TELECOMM	7,663	9,639	17,302	23	57	80
391666	87	JEFFERSON TEL CO -SD	556	700	1,255	0	0	0
391667	87	KADOKA TELEPHONE CO	298	374	672	0	0	0
391668	87	KENNEBEC TEL CO	155	196	351	0	0	0

TABLE 4.8

1987 NONTIER 1 COMPANIES NETWORK USAGE
MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
391669	*	MCCOOK COOP TEL CO	336	421	758	0	0	0
391670	*	MIDSTATE TEL COMPANY	1,222	1,534	2,756	1	3	5
391676	*	SANBORN TEL COOP	993	1,244	2,236	1	3	4
391680	*	SULLY BUTTES TEL	2,197	2,755	4,953	1	2	2
391689	87	WEST RIVER COOP	1,004	1,265	2,269	1	2	3
401691	87	ALLTEL ARKANSAS INC	37,992	47,878	85,870	40	98	138
401692	87	ARKANSAS TEL CO	3,217	4,056	7,274	0	0	0
401697	87	CENTRAL ARKANSAS TEL	993	1,248	2,241	18	44	63
401698	87	CLEVELAND COUNTY TEL	805	1,014	1,820	0	0	0
401699	87	DECATUR TEL CO INC	589	742	1,330	0	0	0
401702	87	SOUTH ARKANSAS TEL	1,150	1,453	2,604	0	0	0
401705	87	LIBERTY TEL & COMM	6,470	8,139	14,609	6	13	19
401709	87	MADISON COUNTY TEL	1,391	1,752	3,143	0	0	0
401711	87	MOUNTAIN HOME TEL	12,168	15,361	27,529	88	196	284
401713	87	NORTH ARKANSAS TEL	3,548	4,468	8,016	0	0	0
401720	87	REDFIELD TEL CO	604	759	1,363	0	1	1
401722	*	E RITTER TEL CO	2,942	3,687	6,630	0	0	0
401724	*	SW ARKANSAS TEL COOP	2,994	3,746	6,741	45	99	144
401726	87	TRI-COUNTY TEL CO-AR	2,278	2,863	5,141	103	247	350
401727	87	UNION TEL CO INC	838	1,055	1,894	0	0	0
401729	87	WALNUT HILL TEL CO	2,622	3,298	5,920	0	0	0
401730	87	CONTEL OF ARKANSAS	39,817	50,276	90,093	235	526	761
401733	87	YELCOT TEL CO INC	1,977	2,489	4,467	0	0	0
401734	87	YELL COUNTY TEL CO	1,683	2,117	3,801	44	101	145
411741	87	ASSARIA TEL EXCHANGE	163	206	369	0	0	0
411746	87	BLUE VALLEY TEL CO	1,146	1,443	2,589	0	0	0
411761	87	CUNNINGHAM TEL CO	544	684	1,228	0	0	0
411764	87	ELKHART TEL CO INC	1,474	1,857	3,331	0	0	0
411777	*	GOLDEN BELT TEL ASSN	1,566	1,961	3,528	0	0	0
411780	*	HAVILAND TEL CO	1,435	1,798	3,233	0	0	0
411781	87	H & B COMMUNICATIONS	479	604	1,083	0	0	0
411782	87	HOME TEL CO	603	760	1,363	0	0	0
411785	87	J. B. N. TEL CO INC	1,250	1,573	2,823	0	0	0
411788	87	KANOKLA TEL ASSN-KS	1,213	1,525	2,737	0	0	0
411789	87	KANSAS STATE TEL CO	5,652	7,121	12,774	0	0	0
411790	87	CONTEL OF KANSAS	24,221	30,518	54,739	34	67	101
411801	87	MADISON TEL CO INC	378	476	854	0	0	0
411807	87	MOKAN DIAL INC-KS	1,177	1,481	2,659	45	83	127
411808	87	MOUNDRIDGE TEL CO	878	1,103	1,981	0	0	0
411814	87	PEOPLES MUTUAL TEL	763	960	1,723	0	0	0
411818	87	CRAW-KAN TEL COOP	6,342	7,982	14,324	0	0	0
411820	*	RAINBOW TEL COOP	847	1,060	1,907	0	0	0
411826	87	RURAL TEL SERVICE CO	2,541	3,196	5,737	0	0	0
411827	87	S & T TEL COOP ASSN	912	1,146	2,058	0	0	0

TABLE 4.8

1987 NONTIER 1 COMPANIES NETWORK USAGE
MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
411829	*	S & A TEL CO INC	305	382	687	0	0	0
411831	87	S. CENTRAL TEL - KS	442	557	999	0	0	0
411833	*	SOUTHERN KANSAS TEL	1,526	1,911	3,437	0	0	0
411835	87	SUNFLOWER TEL CO	2,281	2,866	5,147	0	0	0
411839	*	TRI-COUNTY TEL ASSN	1,266	1,587	2,853	0	0	0
411840	87	TWIN VALLEY TEL INC	798	1,005	1,803	0	0	0
411841	87	UNITED TEL ASSN	2,714	3,418	6,133	0	0	0
411845	*	WAMEGO TEL CO INC	1,751	2,194	3,945	0	0	0
411847	87	THE WHEAT STATE TEL	781	983	1,763	0	0	0
411849	87	WILSON TEL CO INC	689	867	1,556	0	0	0
411852	87	ZENDA TEL COMPANY	77	97	174	0	0	0
412030	87	TOTAH TELEPHONE CO	828	1,043	1,871	0	0	0
421807	87	MOKAN DIAL INC-MO	377	475	852	1	1	2
421846	87	CONTINENTAL SYS. -MO	20,695	26,056	46,751	119	231	349
421859	87	BOURBEUSE TEL	504	636	1,140	4	7	11
421865	87	CITIZENS TEL CO - MO	1,305	1,640	2,945	0	0	0
421873	87	EASTERN MISSOURI TEL	787	990	1,777	0	0	0
421882	87	FIDELITY TEL CO	3,459	4,357	7,816	28	52	79
421885	87	ALLTEL MISSOURI	10,995	13,849	24,844	0	1	1
421886	87	GOODMAN TEL CO	997	1,254	2,251	0	0	0
421888	87	GRAND RIVER MUT-MO	5,380	6,769	12,149	0	0	0
421901	87	KINGDOM TELEPHONE CO	1,459	1,834	3,294	0	0	0
421904	87	MISSOURI TEL CO	6,510	8,208	14,718	0	0	0
421908	87	LE-RU TELEPHONE CO	841	1,062	1,903	0	0	0
421917	*	MID-MISSOURI TEL CO	1,082	1,356	2,438	0	0	0
421920	*	MILLER TEL CO - MO	358	448	806	0	0	0
421922	87	CONTEL OF MISSOURI	82,799	104,286	187,085	244	558	802
421929	87	HOLWAY TEL CO	228	288	517	0	0	0
421931	87	NE MISSOURI RURAL	1,686	2,122	3,808	0	0	0
421932	87	LATHROP TEL COMPANY	473	596	1,069	8	17	25
421934	87	ORCHARD FARM TEL CO	194	244	438	0	0	0
421945	*	SENECA TEL CO	1,502	1,881	3,383	0	0	0
421951	87	STOUTLAND TEL CO	401	504	905	0	0	0
421963	87		1,857	2,337	4,194	24	50	74
421964	*	WHEELING TEL CO	131	164	295	0	0	0
431788	87	KANOKLA TEL ASSN-OK	816	1,026	1,842	0	0	0
431831	87	S. CENTRAL TEL - OK	278	349	627	0	0	0
431965	87	ALLTEL OKLAHOMA INC	5,596	7,054	12,650	0	0	0
431974	87	CANADIAN VALLEY TEL	304	383	687	0	0	0
431976	87	CARNEGIE TEL CO INC	576	724	1,300	0	0	0
431977	*	CENTRAL OKLAHOMA TEL	888	1,112	2,000	0	0	0
431979	87	CHEROKEE TEL CO	3,097	3,893	6,990	0	0	0
431980	87	CHICKASAW TEL CO	2,683	3,375	6,058	0	0	0
431981	87	CHOUTEAU TEL CO	912	1,147	2,059	0	0	0

TABLE 4.8

1987 NONTIER 1 COMPANIES NETWORK USAGE
MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
431984	87	OKLAMOMA COMM SYSTEM	5,438	6,853	12,291	108	200	308
431985	87	CROSS TEL CO	3,472	4,370	7,842	0	0	0
431988	87	DOBSON TEL CO	2,024	2,549	4,573	0	0	0
431994	87	GRAND TEL CO INC	696	879	1,576	0	0	0
431995	87	HINTON TEL CO	1,036	1,308	2,344	67	137	204
432006	87	M-CLOUD TEL CO	2,620	3,298	5,918	0	0	0
432010	87	MID-AMERICA TEL INC	819	1,036	1,855	0	0	0
432011	87	OKLAHOMA ALLTEL, INC	7,727	9,737	17,464	4	10	14
432013	87	OKLAHOMA TEL & TEL	684	860	1,544	0	0	0
432014	87	OKLAHOMA WESTERN TEL	1,163	1,464	2,627	0	0	0
432016	87	PANHANDLE TEL COOP	5,251	6,620	11,870	9	22	31
432018	87	PIONEER TEL COOP INC	14,287	17,995	32,282	162	323	485
432020	87	POTTAWATOMIE TEL CO	728	916	1,644	0	0	0
432030	87	TOTAH TELEPHONE CO	1,160	1,460	2,620	0	0	0
432032	87	VALLIANT TEL CO	1,273	1,602	2,876	0	0	0
432034	87	WYANDOTTE TEL CO	423	532	955	0	0	0
432141	*	SANTA ROSA TEL COOP	407	511	918	0	0	0
440425	87	CAMERON TEL CO TEXAS	215	270	485	0	0	0
442039	87	BIG BEND TEL CO INC	1,073	1,351	2,424	0	0	0
442040	87	BRAZORIA TEL CO	1,111	1,399	2,511	0	0	0
442041	87	BRAZOS TEL COOP INC	217	273	490	0	0	0
442046	87	CAP ROCK TEL CO INC	443	557	1,000	0	0	0
442052	87	CENTRAL TEXAS CO-OP	667	839	1,506	0	0	0
442057	*	COLEMAN COUNTY CO-OP	355	445	800	0	0	0
442059	87	COLORADO VALLEY TEL	1,053	1,326	2,379	285	605	890
442060	*	COMANCHE COUNTY TEL	858	1,075	1,933	0	0	0
442066	87	DELL TEL. CO-OP - TX	399	503	902	0	0	0
442068	87	EASTEX TEL COOP INC	5,982	7,532	13,515	0	0	0
442070	87	ETEX TEL COOP INC	2,457	3,095	5,553	0	0	0
442071	87	FIVE AREA TEL CO-OP	597	752	1,349	0	0	0
442072	87	FORT BEND TEL CO	4,660	5,853	10,513	0	0	0
442076	87	GANADO TELEPHONE CO	181	227	408	0	0	0
442083	87	GUADALUPE VALLEY TEL	5,409	6,805	12,214	0	0	0
442086	87	HILL COUNTRY CO-OP	2,407	3,031	5,438	29	71	100
442093	87	INDUSTRY TEL CO	217	273	490	0	0	0
442097	87	KERRVILLE TEL CO	5,372	6,758	12,130	253	622	875
442101	87	LAKE DALLAS TEL CO	2,641	3,326	5,967	0	0	0
442103	87	LA WARD TEL EXCHANGE	151	190	341	0	0	0
442104	87	LAKE LIVINGSTON TEL	178	225	403	0	0	0
442109	87	LUFKIN-CONROE TEL EX	21,388	26,947	48,335	1,380	3,180	4,560
442112	87	MID-PLAINS RURAL TEL	686	864	1,550	0	0	0
442116	87	MUNSTER TEL CORP-TX	509	642	1,151	0	0	0
442117	87	MUSTANG TEL CO	1,150	1,447	2,597	17	39	55
442121	87	ALLTEL TEXAS INC	882	1,113	1,995	1	2	2

TABLE 4.8

1987 NONTIER 1 COMPANIES NETWORK USAGE
MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
442129	87	WEBSTER COUNTY TEL	163	204	367	2	3	5
442130	87	PEOPLES TEL COOP -TX	1,578	1,986	3,564	0	0	0
442131	87	POKA-LAMBRO RURAL	733	924	1,657	0	0	0
442134	87	RIVIERA TEL CO INC	241	303	543	0	0	0
442135	87	SOUTHWEST TEXAS TEL	472	595	1,067	0	0	0
442136	87	ROMAIN TELEPHONE CO	396	496	892	0	0	0
442141	*	SANTA ROSA TEL COOP	326	408	734	0	0	0
442143	*	SOUTH PLAINS TEL	967	1,212	2,179	24	50	73
442147	87	SUGAR LAND TEL CO	17,556	22,122	39,679	912	1,765	2,676
442148	87	SWEENEY-OLD OCEAN	710	894	1,604	12	24	36
442151	87	TAYLOR TEL CO-OP INC	1,082	1,362	2,444	35	77	113
442153	87	TEXAS-MIDLAND TEL	2,981	3,757	6,738	0	0	0
442155	87	TRI-COUNTY TEL - TX	119	150	269	0	0	0
442156	87	TRINITY VALLEY TEL	1,357	1,709	3,066	20	44	63
442159	87	VALLEY TEL CO-OP -TX	835	1,049	1,884	0	0	0
442160	87	VALLEY VIEW TEL CO	338	426	764	0	0	0
442163	87	WATERWOOD COMM INC	101	127	228	0	0	0
442166	87	WEST TEXAS RURAL TEL	983	1,237	2,220	0	0	0
442168	87	WES-TEX TEL CO-OP	673	848	1,521	0	0	0
442170	87	XIT RURAL TEL CO-OP	810	1,020	1,830	0	0	0
442262	87	ENMR TEL COOP-TX	297	373	670	0	0	0
452171	87	ARIZONA TELEPHONE CO	1,127	1,419	2,546	0	0	0
452172	87	CITIZENS UTILITIES	47,037	59,243	106,281	567	1,266	1,833
452175	87	UNIVERSAL TEL OF SW	522	657	1,178	0	0	0
452176	87	VALLEY TEL COOP-AZ	1,236	1,553	2,789	0	0	0
452177	87	CONTEL OF WEST-AZ	14,414	18,154	32,567	349	803	1,152
452275	87	NAVAJO COMMUN-AZ	8,322	10,493	18,815	0	0	0
452302	87	CONTEL CALIF - AZ	5,696	5,719	11,415	0	23	23
461835	87	SUNFLOWER TEL - CO	279	351	630	0	0	0
462181	87	BIJOU TEL COOP ASSOC	472	594	1,066	0	0	0
462182	87	BLANCA TEL CO	358	451	808	0	0	0
462184	87	DELTA COUNTY TEL CO	3,415	4,303	7,719	45	113	157
462185	87	EAGLE TELECOMMUN INC	4,324	5,437	9,762	36	71	107
462186	87	EASTERN SLOPE RURAL	2,115	2,660	4,774	0	0	0
462187	87	EL PASO COUNTY TEL	1,191	1,501	2,692	0	0	0
462188	87	FARMERS TEL CO - CO	233	292	525	0	0	0
462190	87	HAXTUN TEL CO	639	803	1,441	0	0	0
462192	87	BIG SANDY TELCOMM	337	423	760	0	0	0
462193	87	NUCLA-NATURITA TEL	1,150	1,442	2,592	0	0	0
462194	87	NUNN TEL CO	138	173	311	0	0	0
462196	87	PEETZ COOP TEL CO	174	218	392	0	0	0
462197	*	PHILLIPS COUNTY TEL	1,085	1,359	2,444	0	0	0
462199	87	PLAINS COOP TEL ASSN	713	897	1,610	0	0	0
462203	87	RYE TELEPHONE CO	915	1,152	2,068	78	211	289

TABLE 4.8

1987 NONTIER 1 COMPANIES NETWORK USAGE
MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
462204	87	COLUMBINE TEL CO	390	492	882	0	0	0
462207	87	STRASBURG TEL CO	474	597	1,071	0	0	0
462208	87	UNIVERSAL TEL CO -CO	3,363	4,230	7,594	0	0	0
462209	87	WIGGINS TEL ASSOC	557	701	1,258	0	0	0
472177	87	CONTEL OF WEST-ID	7,603	9,574	17,177	10	25	35
472213	87	ALBION TEL CO INC	750	945	1,696	0	0	0
472215	87	CAMBRIDGE TEL CO	461	580	1,042	0	0	0
472218	87	CUSTER TEL COOP	1,311	1,651	2,962	0	0	0
472223	87	GEM STATE UTIL-ID	697	878	1,575	0	1	1
472225	87	CENTURY TEL OF IDAHO	2,410	3,035	5,445	1	4	5
472226	87	MIDVALE TEL EXCH INC	154	195	349	0	0	0
472231	87	PROJECT MUTUAL TEL	3,371	4,244	7,614	0	0	0
472232	87	ROCKLAND TEL CO INC	169	212	381	0	0	0
472233	87	RURAL TEL CO - ID	79	99	178	0	0	0
472234	87	TROY TELEPHONE CO	562	708	1,270	0	0	0
472295	87	SILVER STAR TEL- ID	179	226	405	0	0	0
472423	87	INLAND TEL-ID	211	266	477	0	0	0
482235	87	BLACKFOOT TEL COOP	3,587	4,513	8,100	1	3	4
482242	87	INTERBEL TEL COOP	741	931	1,672	0	0	0
482244	87	LINCOLN TEL CO INC	370	466	836	0	0	0
482246	87	MID-RIVERS TEL COOP	3,381	4,249	7,630	0	0	0
482247	87	NEMONT TEL COOP-MT	1,495	1,883	3,378	0	0	0
482248	87	NORTHERN TEL COOP	1,061	1,337	2,398	0	0	0
482249	87	NW TEL SYSTEMS, INC.	28,666	36,072	64,738	1,991	4,698	6,689
482250	87	PROJECT TEL CO	1,655	2,083	3,738	0	0	0
482251	87	RANGE TEL COOP-MT	2,061	2,593	4,654	0	0	0
482254	87	SOUTHERN MONTANA TEL	544	685	1,230	0	0	0
482255	87	3-RIVERS TEL COOP	4,413	5,554	9,967	0	0	0
482257	87	TRIANGLE TEL COOP	4,187	5,272	9,459	0	0	0
482258	87	VALLEY RURAL TEL	336	423	758	0	0	0
492066	87	DELL TEL CO-OP - NM	181	228	408	0	0	0
492176	87	VALLEY TEL COOP - NM	990	1,243	2,233	0	0	0
492177	87	CONTEL OF WEST - NM	16,119	20,300	36,419	72	183	255
492259	87	BACA VALLEY TEL CO	446	562	1,008	0	0	0
492262	87	ENMR TEL COOP INC-NM	6,299	7,929	14,229	0	0	0
492263	87	LA JICARITA RURAL	711	895	1,605	0	0	0
492264	87	LEACO RURAL TEL COOP	571	718	1,289	0	0	0
492268	87	WESTERN NEW MEXICO	3,027	3,812	6,838	0	0	0
492270	87	PENASCO VALLEY TEL	713	901	1,614	0	0	0
492272	87	ROOSEVELT CNTY RURAL	1,190	1,496	2,686	0	0	0
492274	87	UNIVERSAL TEL OF SW	2,357	2,964	5,321	0	0	0
492275	87	NAVAJO COMMUN - NM	3,047	3,843	6,890	0	0	0
502177	87	CONTEL THE WEST - UT	11,082	13,960	25,042	30	78	109
502275	87	NAVAJO COMMUN - UT	460	579	1,039	0	0	0

TABLE 4.8

1987 NONTIER 1 COMPANIES NETWORK USAGE
MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
502277	87	CENTRAL UTAH TEL INC	278	350	628	0	0	0
502278	87	EMERY COUNTY FARMERS	1,049	1,322	2,370	0	0	0
502280	87	KAMAS-WOODLAND TEL	557	703	1,260	0	0	0
502283	*	SKYLINE TELECOM	167	209	377	0	0	0
502286	87	SOUTH CENTRAL UTAH	1,557	1,953	3,510	0	0	0
502287	87	UINTAH BASIN TEL	1,119	1,408	2,528	0	0	0
502288	87	UT-WY TELECOM	312	393	705	0	0	0
512251	87	RANGE TEL COOP - WY	1,208	1,519	2,728	0	0	0
512290	87	UTAH-WYOMING TELECOM	293	369	661	0	0	0
512291	87	DUBOIS TEL EXCHANGE	1,310	1,649	2,960	0	0	0
512294	87	MEDICINE BOW TEL CO	191	240	431	0	0	0
512295	87	SILVER STAR TEL-WY	937	1,178	2,116	0	0	0
512297	87	UNION TELEPHONE CO	3,625	4,564	8,189	0	0	0
512299	87	TEL. UTIL. OF WY.	2,633	3,313	5,946	2	5	7
522404	87	ASOTIN TEL - WA	538	675	1,213	0	0	0
522408	87	TEL UTIL OF WA INC	43,437	54,705	98,142	85	188	273
522410	87	COWICHE TELEPHONE CO	584	736	1,321	0	0	0
522412	87	ELLENSBURG TEL CO	7,548	9,512	17,060	63	137	200
522417	87	HAT ISLAND TEL CO	4	5	9	0	0	0
522419	87	HOOD CANAL TEL CO	334	419	753	0	0	0
522423	87	INLAND TEL CO -WA	650	818	1,468	0	0	0
522426	87	KALAMA TEL CO	1,265	1,593	2,859	1	3	4
522427	87	LEWIS RIVER TEL CO	2,017	2,536	4,553	2	5	7
522431	87	MASHELL TEL CO INC	706	890	1,595	0	0	0
522436	87	PENINSULA TELECOMM	2,345	2,945	5,289	10	26	37
522437	87	PIONEER TEL CO	360	453	813	0	0	0
522442	87	ST JOHN TEL CO	244	307	551	0	0	0
522446	87	TENINO TELEPHONE CO	953	1,202	2,155	0	0	0
522447	87	TOLEDO TELEPHONE CO	847	1,066	1,914	0	0	0
522449	87	CONTEL OF THE NW-WA	26,197	32,993	59,190	655	1,492	2,147
522451	87	WESTERN WAHIAKUM	557	701	1,258	0	0	0
522452	87	WHIDBEY TEL CO.	2,854	3,598	6,452	7	17	24
522453	87	YELM TELEPHONE CO	2,628	3,306	5,933	0	0	0
532226	87	MIDVALE TEL EXCH -OR	152	191	343	0	0	0
532304	87	C P NATIONAL CORP-OR	6,939	8,741	15,680	0	0	0
532359	87	BEAVER CREEK COOP	2,005	2,523	4,528	0	0	0
532361	87	TEL UTIL OF OREGON	22,100	27,835	49,935	27	66	92
532362	87	CANBY TEL ASSN	4,507	5,669	10,176	0	0	0
532363	87	CLEAR CREEK MUTUAL	1,738	2,188	3,926	0	0	0
532364	87	COLTON TEL CO	506	637	1,143	0	0	0
532371	87	CASCADE UTIL INC	4,209	5,299	9,508	8	20	28
532375	87	RTI/HALSEY TEL CO	521	656	1,177	0	0	0
532376	87	HELIX TEL CO.	103	130	234	0	0	0
532377	87	HOME TELEPHONE CO	246	309	555	0	0	0

TABLE 4.8

1987 NONTIER 1 COMPANIES NETWORK USAGE
MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
532378	87	TRANS-CASCADES TEL	77	97	175	0	0	0
532383	87	MOLALLA TEL CO.	2,664	3,353	6,016	0	0	0
532385	87	MONROE TELEPHONE CO.	343	432	775	0	0	0
532387	87	NEHALEM TEL & TEL	782	985	1,767	0	0	1
532388	87	NORTH STATE TEL CO.	248	312	559	0	0	0
532389	87	OREGON TEL CORP	871	1,097	1,968	0	0	0
532392	87	PINE TEL SYSTEM INC.	471	592	1,063	0	0	1
532393	87	PIONEER TEL COOP	5,406	6,806	12,212	4	11	15
532397	87	SCIO MUTUAL TEL ASSN	786	990	1,776	2	4	6
532399	*	STAYTON COOP TEL CO	2,618	3,281	5,899	7	18	25
532404	87	ASOTIN TEL - OR	87	109	196	0	0	0
532449	87	CONTEL OF THE NW- OR	11,198	14,103	25,302	17	43	60
532456	87	MALHEUR HOME TEL CO	9,043	11,385	20,428	291	640	931
542301	87	CALAVERAS TEL CO	365	460	825	0	0	0
542304	87	C P NATIONAL CORP-CA	3,994	5,031	9,024	0	0	0
542306	*	CAPAY VALLEY TEL CO	145	182	326	0	0	0
542308	87	CITIZENS UTIL OF CA	20,627	25,978	46,606	48	121	169
542311	87	CALIF-OREGON TEL CO	1,432	1,805	3,237	0	0	0
542313	87	DUCOR TELEPHONE CO	150	189	338	0	0	0
542315	87	EVANS TEL CO.	1,629	2,054	3,682	0	0	0
542318	87	FORESTHILL TEL CO.	462	582	1,044	0	0	0
542321	87	HAPPY VALLEY TEL CO	978	1,231	2,209	0	0	0
542322	87	HORNITOS TEL CO	314	396	710	0	0	0
542324	87	KERMAN TELEPHONE CO	1,164	1,467	2,631	9	21	30
542332	87	THE PONDEROSA TEL CO	1,304	1,644	2,948	0	0	0
542334	87	ROSEVILLE TEL CO	24,220	30,515	54,736	1,517	3,517	5,034
542338	87	SIERRA TELEPHONE CO	4,110	5,174	9,284	37	89	127
542339	87	THE SISKIYOU TEL CO	2,093	2,657	4,750	3	7	10
542342	87	TUOLUMNE TEL CO	1,229	1,550	2,779	0	0	0
542343	87	THE VOLCANO TEL CO	1,973	2,487	4,460	8	18	26
542346	87	PINNACLES TEL CO	43	55	98	0	0	0
552223	87	GEM STATE UTIL-NV	307	387	695	0	0	0
552233	87	RURAL TEL CO - NV	142	179	321	0	0	0
552302	87	CONTEL OF CALIF-NV	24,903	28,420	53,323	4,626	1,971	6,597
552304	87	CP NATIONAL-NV	9,676	12,191	21,867	0	0	0
552349	87	CHURCHILL COUNTY TEL	7,772	9,798	17,570	0	0	0
552351	87	LINCOLN CTY TEL SYS	1,192	1,503	2,695	4	8	11
552353	87	MOAPA VALLEY TEL CO.	1,582	1,993	3,576	0	0	0
552354	87	NEVADA TEL-TELEGRAPH	3,644	4,589	8,233	0	0	0
552356	87	RIO VIRGIN TEL CO	900	1,134	2,034	5	14	19
613000	87	ANCHORAGE TEL UTIL	96,334	121,537	217,871	11,726	24,900	36,626
613001	87	ARCTIC SLOPE TEL	1,863	2,351	4,215	0	0	0
613003	87	BRISTOL BAY TEL COOP	607	747	1,354	0	0	0
613004	87	BUSH-TELL INC.	142	179	322	0	0	0

TABLE 4.8

1987 NONTIER 1 COMPANIES NETWORK USAGE
MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
613006	87	COPPER VALLEY TEL	1,993	2,506	4,500	0	0	0
613007	87	CORDOVA TEL COOP	1,212	1,523	2,735	0	0	0
613008	87	FAIRBANKS MUNICIPAL	24,821	31,334	56,154	0	0	0
613009	87	GTE ALASKA INC.	8,531	10,729	19,260	0	0	0
613010	87	GLACIER STATE TEL CO	24,334	30,665	54,999	0	0	0
613011	87	INTERIOR TEL CO INC	2,175	2,735	4,910	0	0	0
613012	87	JUNEAU & DOUGLAS TEL	12,092	15,264	27,357	0	0	0
613013	87	KETCHIKAN PUBLIC UT	6,415	8,060	14,475	0	0	0
613015	87	MATANUSKA TEL ASSOC	20,043	25,177	45,220	2,784	5,979	8,763
613016	87	MUKLUK TEL CO INC	363	459	822	0	0	0
613018	87	NUSHAGAK TEL COOP	736	922	1,658	0	0	0
613019	87	OTZ TEL COOPERATIVE	649	818	1,467	0	0	0
613020	87	SITKA TELEPHONE CO	6,756	8,504	15,260	0	0	0
613022	87	TEL UTIL OF ALASKA	2,503	3,156	5,659	0	0	0
613023	87	UNITED UTILITIES INC	834	1,053	1,887	0	0	0
613025	87	YUKON TEL CO INC	156	196	352	0	0	0
633200	87	PUERTO RICO COMM	33,104	41,662	74,766	0	0	0
643300	87	VIRGIN ISLANDS TEL	55,453	69,856	125,308	662	1,458	2,120
678		NONTIER 1 CO's TOTALS	3,086,643	3,882,287	6,968,946	72,461	157,723	230,174
888888	87	AVERAGE SCHEDULE CO.	1,387,595	1,736,212	3,123,807	32,647	74,958	107,606
TOTAL		NONTIER 1 & AV. SCH.	4,474,238	5,618,499	10,092,753	105,108	232,681	337,780

+ - COMPANIES WHO SUBMITTED 1986 RATHER THAN 1987

* - COMPANIES WHO NECA COMPUTED DATA FOR

TABLE 4.9

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
100003	88	LINCOLNVILLE TEL CO	809	1,016	1,825	50	158	209
100004	88	CHINA TEL CORP	1,563	1,963	3,526	0	0	0
100010	*	HAMPDEN TEL CO	1,267	1,591	2,858	0	0	0
100011	88	HARTLAND & ST ALBANS	1,571	1,973	3,543	0	0	0
100014	88	CONTEL OF MAINE	29,100	36,529	65,629	1,273	4,013	5,285
100024	88	SOMERSET TEL CO	5,531	6,944	12,475	0	0	0
100025	88	STANDISH TEL CO	4,233	5,315	9,548	119	379	498
100027	88	UNION RIVER TEL CO	483	605	1,088	0	0	0
100029	88	UNITY TEL CO., INC.	2,196	2,758	4,954	0	0	0
100031	88	WARREN TEL CO	902	1,134	2,036	0	0	0
100034	88	WEST PENOBSCOT TEL	930	1,168	2,098	0	0	0
120038	88	BRETTON WOODS TEL CO	371	466	837	0	0	0
120039	88	GRANITE STATE TEL	6,334	7,961	14,295	314	988	1,301
120040	*	CHICHESTER TEL CO	720	904	1,625	20	62	81
120041	88	CONTEL OF NH	11,386	14,307	25,693	412	1,300	1,712
120045	88	KEARSARGE TEL CO	5,968	7,497	13,465	0	0	0
120046	88	MERIDEN TEL CO	625	786	1,412	0	0	0
120047	88	MERRIMAK COUNTY TEL	5,167	6,494	11,661	0	0	0
120049	88	UNION TEL CO	5,115	6,418	11,533	24	76	100
120050	88	WILTON TEL CO - NH	2,819	3,542	6,362	0	0	0
140058	88	LUDLOW TEL CO	3,157	3,964	7,121	0	0	0
140061	88	NORTHFIELD TEL CO	3,047	3,830	6,877	0	0	0
140062	88	PERKINSVILLE TEL CO	841	1,056	1,897	0	0	0
140068	88	TOPSHAM TEL CO	918	1,154	2,072	0	0	0
140069	88	WAITSFIELD/FAYSTON	4,079	5,125	9,204	3	9	12
140070	88	CONTEL OF VERMONT	36,737	46,149	82,886	669	2,098	2,766
150072	88	AU SABLE VALLEY TEL	2,699	3,389	6,087	0	0	0
150077	88	CHAMPLAIN TEL CO	3,849	4,837	8,685	537	1,694	2,231
150078	88	CHAUTAUQUA & ERIE	5,644	7,098	12,741	746	2,364	3,110
150081	88	CITIZENS HAMMOND NY	363	455	817	0	0	0
150082	88	CLYMER TEL CO	830	1,043	1,874	78	244	322
150084	88	TACONIC TEL CORP	13,252	16,647	29,899	65	205	269
150085	88	CROWN POINT TEL CORP	383	481	864	24	75	98
150091	88	DUNKIRK & FREDONIA	3,246	4,078	7,324	690	2,176	2,866
150092	88	EDWARDS TEL CO	637	801	1,438	0	0	0
150093	88	EMPIRE TEL CORP	3,252	4,085	7,337	361	1,139	1,500
150097	88	GERMANTOWN TEL CO	1,066	1,339	2,405	54	171	224
150099	88	HANCOCK TEL CO	918	1,153	2,071	21	66	87
150100	88	HIGHLAND TEL CO	38,513	48,412	86,925	0	0	0
150105	88	MIDDLEBURGH TEL CO	2,156	2,709	4,865	31	97	128
150106	88	ALLTEL NY-FULTON	20,407	25,641	46,047	1,882	5,932	7,814
150108	88	NICHOLVILLE TEL CO	650	817	1,466	63	198	261
150109	88	ALLTEL NY-JAMESTOWN	29,069	36,495	65,563	692	2,185	2,878
150110	88	OGDEN TEL CO	7,439	9,348	16,786	794	2,507	3,301

TABLE 4.9

1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
150113	88	ALLTEL NY-RED JACKET	748	940	1,688	100	315	415
150116	*	PATTERSONVILLE TEL	573	719	1,291	46	146	193
150119	88	RED HOOK TEL CO	8,081	10,421	18,502	152	2,218	2,370
150122	88	SENECA-GORHAM TEL	3,150	3,961	7,111	404	1,276	1,680
150128	88	SYLVAN LAKE TEL CO	7,937	9,976	17,913	0	0	0
150133	88	VERNON TEL CO	1,016	1,275	2,291	118	374	492
150135	88	WARWICK VALLEY-NY	10,141	12,747	22,888	634	2,011	2,645
150136	88	WESTERN COUNTIES TEL	12,601	12,031	24,632	43	2,837	2,880
160135	88	WARWICK VALLEY-NJ	5,032	6,324	11,356	19	61	80
170170	88	CONTEL OF PA	30,135	37,887	68,022	512	1,613	2,125
170177	*	LACKAWAXEN TEL CO	1,972	2,474	4,446	0	0	0
170183	88	MAHANAY & MAHANTONGO	1,014	1,269	2,283	2	5	7
170192	88	NORTH PENN TEL CO	3,915	4,920	8,836	109	345	455
170194	88	OSWAYO RIVER TEL CO	1,494	1,877	3,371	0	0	0
170201	88	QUAKER STATE TEL CO	24,901	31,281	56,182	484	1,525	2,009
170206	88	SUGAR VALLEY TEL CO	385	484	869	0	0	0
190217	88	AMELIA TEL CORP	1,703	2,140	3,843	0	0	0
190249	88	ROANOKE & BOTETOURT	5,377	6,758	12,135	313	991	1,304
200259	88	HARDY TEL CO	1,670	2,097	3,767	0	0	0
200270	88	MOUNTAIN STATE TEL	15,033	18,893	33,927	39	124	164
200278	88	CONTEL OF WV	17,622	22,147	39,769	96	304	401
210291	88	FLORALA TEL CO	2,268	2,853	5,121	0	0	0
210318	88	SOUTHLAND TEL-FL	1,961	2,463	4,424	0	0	0
210329	88	GULF TEL CO	4,070	5,118	9,188	129	409	537
210330	88	VISTA-UNITED TELCOM	9,659	12,150	21,808	4,665	14,741	19,405
210331	88	INDIANTOWN SYSTEM	1,108	1,393	2,501	249	785	1,034
210335	88	NORTHEAST FLORIDA	2,667	3,351	6,018	0	0	0
210336	88	ALLTEL FLORIDA INC.	26,983	33,887	60,870	451	1,423	1,875
210338	88	QUINCY TEL CO-FL DIV	5,064	6,363	11,428	0	0	0
210339	88	ST JOSEPH TEL & TEL	12,164	15,302	27,466	713	2,273	2,986
220281	88	CONTEL OF SOUTH - GA	27,936	35,109	63,045	677	2,137	2,814
220338	88	QUINCY TEL CO-GA DIV	598	752	1,350	0	0	0
220344	88	ALMA TEL CO	2,352	2,956	5,308	27	85	112
220347	88	BRANTLEY TEL CO	1,476	1,855	3,332	0	0	0
220351	88	CAMDEN TEL & TEL CO	12,938	16,268	29,206	315	994	1,308
220355	88	CITIZENS TEL CO - GA	1,696	2,131	3,827	0	0	0
220356	88	COASTAL UTILITIES	20,055	25,219	45,274	0	0	0
220358	88	DARIEN TEL CO	2,050	2,577	4,628	0	0	0
220360	88	ELLIJAY TEL CO	2,643	3,321	5,964	0	0	0
220371	*	INTERSTATE TEL CO	7,269	9,139	16,407	0	0	0
220377	88	PINELAND TEL COOP	2,982	3,748	6,730	0	0	0
220379	88	PLANT TEL. CO.	2,909	3,656	6,565	0	0	0
220381	88	PUBLIC SERVICE TEL	2,735	3,439	6,174	9	28	37
220386	88	STANDARD TEL CO	18,941	23,813	42,754	117	369	486

TABLE 4.9

1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
220392	88	WAVERLY HALL TEL CO	895	1,126	2,020	0	0	0
220394	*	WILKES TEL & ELC CO	3,602	4,522	8,124	0	0	0
230468	88	ATLANTIC MEMBERSHIP	12,611	15,864	28,475	0	0	0
230469	88	BARNARDSVILLE TEL CO	476	599	1,075	0	0	0
230473	88	CITIZENS TEL CO	8,706	10,944	19,650	816	2,578	3,394
230474	88	CONCORD TEL CO	33,821	42,504	76,325	8,780	27,869	36,649
230476	88	ALLTEL CAROLINA-NO	67,251	84,472	151,723	472	1,489	1,961
230481	88	HEINS TEL CO	10,809	13,575	24,384	577	1,817	2,394
230502	88	STAR MEMBERSHIP CORP	5,532	6,946	12,478	0	0	0
230509	88	CONTEL OF NC	52,902	66,466	119,368	3,315	10,474	13,789
230510	88	WILKES MEMBERSHIP	1,869	2,349	4,218	93	298	392
240512	88	BLUFFTON TEL. CO.	2,639	3,316	5,954	261	825	1,087
240520	88	FARMERS TEL COOP	28,110	35,311	63,420	1,533	4,825	6,358
240523	88	HARGRAY TEL CO	32,368	40,706	73,073	3,093	9,759	12,852
240526	88	CONTEL OF SC	11,000	13,823	24,823	496	1,549	2,045
240528	*	HORRY TEL COOP	29,495	37,052	66,546	3,133	9,903	13,036
240533	88	MCCLELLANVILLE TEL	925	1,162	2,087	0	0	0
240539	88	POND BRANCH TEL CO	2,848	3,583	6,431	462	1,457	1,919
240551	88	WILLISTON TEL CO	1,989	2,498	4,487	0	0	0
250281	88	CONTEL OF THE SOUTH	44,493	55,925	100,418	622	1,959	2,580
250284	*	BUTLER TEL CO	2,775	3,486	6,261	0	0	0
250297	88	GROVE HILL TEL CORP	695	873	1,569	0	0	0
250298	88	GULF TEL CO - AL	18,979	23,851	42,830	0	0	0
250300	88	HOPPER TEL. CO INC	718	902	1,620	0	0	0
250304	88	MILLRY TEL CO	2,827	3,552	6,380	11	37	48
250306	88	MONROEVILLE TEL CO	7,762	9,751	17,513	99	312	411
250314	88	PEOPLES TEL CO	6,084	7,647	13,731	0	0	0
250316	88	RAGLAND TEL CO	334	420	754	0	0	0
250318	88	SOUTHLAND TEL CO-AL	7,602	9,558	17,160	21	67	88
250461	88	SOUTHEAST MS TEL CO	1,285	1,613	2,898	0	0	0
260410	88	CONTEL OF KENTUCKY	36,520	45,898	82,418	152	482	634
270422	88	ATHENS TEL CO	146	184	330	0	1	2
270423	88	CENTRAL LOUISIANA	6,371	8,011	14,382	51	161	211
270424	88	COASTAL TEL & ELECTR	3,434	4,320	7,754	60	192	252
270425	88	CAMERON TEL CO - LA	3,009	3,779	6,788	84	265	349
270429	88	EAST ASCENSION TEL	8,761	11,015	19,776	255	804	1,060
270430	*	ELIZABETH TEL CO	758	953	1,711	22	71	93
270431	88	CADDOAN TEL CO	5,704	7,171	12,876	43	136	178
270433	88	LAFOURCHE TEL CO	3,806	4,785	8,592	91	288	379
270434	88	EVANGELINE TEL CO	9,576	12,034	21,610	296	943	1,240
270435	88	NORTHEAST LOUISIANA	751	943	1,694	0	0	0
270436	88	CENTURY NORTH LA	681	857	1,538	2	5	7
270437	88	PLAIN DEALING TEL CO	1,051	1,322	2,373	4	14	19
270440	88	CENTURY TEL CO	985	1,238	2,223	6	20	27

TABLE 4.9

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
270442	88	LOUISIANA WESTERN	1,844	2,316	4,160	35	112	147
270443	88	UTC OF LOUISIANA	1,956	2,461	4,417	9	29	38
280446	88	BAY SPRINGS TEL CO	5,397	6,781	12,178	0	0	0
280452	88	DELTA TEL CO	1,364	1,714	3,078	0	0	0
280454	88	FRANKLIN TEL CO - MS	2,801	3,520	6,321	0	0	0
280458	88	HOME TEL CO-OLIVE BR	13,433	16,869	30,303	43	137	180
280459	88	HUGHES TEL CO	2,290	2,877	5,166	7	22	29
290552	88	ADAMSVILLE TEL CO	3,519	4,431	7,950	92	290	383
290571	88	MILLINGTON TEL CO	17,922	22,609	40,531	0	0	0
290575	88	TENNESSEE TEL CO	22,902	28,759	51,661	446	1,405	1,851
290579	88	TWIN LAKES TEL COOP	8,806	11,056	19,862	65	207	272
300597	*	THE CHILLICOTHE TEL	8,895	11,177	20,072	1,450	4,584	6,035
300607	*	CONTEL OF OHIO	768	965	1,733	0	0	0
300613	88	FAYETTEVILLE TEL CO	620	778	1,397	0	0	0
300620	88	HARLAN TEL CO	318	400	718	0	0	0
300665	88	ALLTEL OHIO-WEST OH	9,049	11,373	20,422	479	1,506	1,985
300682	88	C, C & S TELCO -OHIO	337	423	760	0	0	0
310679	88	BLOOMINGDALE TEL CO	666	837	1,503	0	0	0
310680	88	CHIPPEWA COUNTY TEL	272	341	612	0	0	0
310681	88	ALLTEL MICHIGAN INC.	22,683	28,466	51,150	196	623	819
310682	88	C, C & S TELCO - MI	7,701	9,672	17,373	0	0	0
310683	88	CARR TEL CO	324	407	731	1	3	5
310685	88	CHATHAM TEL CO - MI	1,078	1,354	2,432	0	0	0
310687	88	CLAYTON TEL CO	258	324	583	0	0	0
310699	88	HICKORY TEL CO	695	872	1,566	0	0	0
310702	88	CENTURY OF MICHIGAN	14,154	17,787	31,941	255	808	1,063
310704	88	ACE TEL OF MICHIGAN	1,516	1,905	3,421	0	0	0
310711	88	MIDWAY TEL CO	339	425	764	0	0	0
310713	*	HIAWATHA TEL CO	1,695	2,127	3,822	0	0	0
310714	*	OGDEN TEL CO	217	273	489	0	0	0
310717	88	ONTONAGON COUNTY TEL	2,277	2,861	5,138	0	0	0
310721	88	PIGEON TEL CO	973	1,223	2,196	8	25	33
310728	88	SPRINGPORT TEL CO	620	779	1,399	0	0	0
310732	*	UPPER PENINSULA TEL	2,351	2,950	5,300	0	0	0
310737	88	WINN TEL CO	213	267	480	0	0	0
310738	88	WOLVERINE TEL CO	2,386	3,000	5,386	0	0	0
320753	88	CLAY CTY RURAL COOP	3,029	3,809	6,838	0	0	0
320762	88	ELNORA TEL CO	166	208	374	0	0	0
320776	*	COMM CORP OF INDIANA	3,804	4,779	8,583	0	0	0
320778	88	HOME TEL CO INC	663	833	1,496	0	0	0
320779	88	CONTEL OF INDIANA	68,181	85,676	153,858	2,629	8,281	10,910
320797	88	NEW PARIS TEL INC	1,057	1,329	2,387	0	0	0
320800	88	NORTHWESTERN INDIANA	6,378	8,012	14,390	0	0	0
330841	88	CENCOM OF WISCONSIN	11,044	13,879	24,922	0	0	0

TABLE 4.9

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
330844	88	BADGER TELECOM, INC.	1,631	2,050	3,681	0	0	0
330851	88	BONDUEL TEL CO	465	584	1,049	0	0	0
330856	88	BURLINGTON B&W	2,143	2,691	4,834	0	0	0
330859	88	CENTRAL STATE TEL CO	3,083	3,876	6,959	0	0	0
330860	88	CHEQUAMEGON TEL COOP	3,260	4,091	7,350	0	0	0
330870	88	CRANDON TEL CO	752	945	1,698	0	0	0
330876	88	DODGE COUNTY TEL CO	282	355	638	0	0	0
330882	88	FENNIMORE TEL CO	660	828	1,488	0	0	0
330888	88	GREENWOOD TEL CO	482	606	1,087	0	0	0
330891	*	HEADWATERS TEL CO	1,623	2,036	3,659	0	0	0
330895	88	CENTURY OF WISCONSIN	39,209	49,305	88,514	2,453	7,736	10,188
330898	88	LARSEN-READFIELD TEL	629	791	1,420	0	1	1
330908	88	MARQUETTE-ADAMS COOP	1,012	1,272	2,283	13	40	52
330909	88	MIDWAY TEL CO	2,972	3,736	6,708	0	0	0
330913	88	MONROE COUNTY TEL CO	5,869	7,374	13,243	18	58	76
330914	88	MOSEL & CENTERVILLE	1,279	1,607	2,886	0	0	0
330916	*	MOUNT HOREB TEL CO	1,389	1,745	3,134	11	33	44
330917	88	MT VERNON TEL CO	3,074	3,862	6,937	0	0	0
330922	*	NORTH-WEST TEL CO	26,012	32,688	58,700	0	0	0
330931	88	PEOPLES TEL CO	2,363	2,968	5,331	40	127	167
330934	*	PLATTEVILLE TEL CO	4,008	5,035	9,043	62	194	256
330936	88	INDIANHEAD TEL CO	980	1,230	2,210	0	0	0
330937	88	PRICE COUNTY TEL CO	1,623	2,038	3,661	0	0	0
330940	*	RHINELANDER TEL CO	5,322	6,686	12,007	0	0	0
330945	88	SCANDINAVIA TEL CO	834	1,048	1,882	0	0	0
330950	88	SOLON SPRINGS TEL CO	8,648	10,866	19,515	16	51	67
330952	88	SE TEL OF WISCONSIN	2,675	3,361	6,036	0	0	0
330954	88	STOCKBRIDGE & SHERWD	735	923	1,657	0	0	0
330956	88	UNIVERSAL OF N WISC	4,769	5,988	10,757	15	48	63
330963	88	UTELCO, INC	7,878	9,899	17,777	80	253	332
330964	88	URBAN TEL CORP	5,419	6,811	12,230	72	226	297
330965	88	VALDERS TEL CO	575	723	1,298	0	0	0
330974	88	WOOD COUNTY TEL CO	12,168	15,297	27,465	137	433	570
341000	*	ALLTEL ILLINOIS INC.	28,649	35,940	64,589	138	437	575
341004	88	EL PASO TEL CO	960	1,206	2,166	17	54	70
341011	88	LAKESIDE TEL CO	375	471	846	0	0	0
341023	88	GRIDLEY TEL CO	738	927	1,665	7	23	31
341036	88	CONTEL OF ILLINOIS	100,905	126,793	227,698	642	2,033	2,675
341037	88	IL CONSOLIDATED TEL	31,961	40,169	72,131	8,966	28,318	37,284
341038	88	INLAND TEL CO	1,866	2,345	4,211	11	36	48
341045	88	LEAF RIVER VLY TEL	275	345	620	0	0	0
341055	88	MIDLAND TEL CO	1,624	2,040	3,664	0	0	0
341060	88	MOULTRIE INDEPENDENT	175	220	396	0	0	0
341073	88	PRAIRIE TEL CO	367	462	828	5	16	21

TABLE 4.9

1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
351105	88	AYRSHIRE FARMERS MUT	164	206	371	0	0	0
351110	*	BERNARD TEL CO INC	198	249	447	2	7	9
351127	88	CENDEL OF IOWA	32,304	40,593	72,896	11	34	44
351207	88	CONTEL OF IOWA, INC.	35,636	44,793	80,429	0	0	0
351229	*	LOST NATION-ELWOOD	254	319	573	3	10	14
351316	*	UNITED FARMERS TEL	389	489	878	0	0	0
351327	88	WEBB-DICKENS TEL	243	305	548	0	0	0
351346	88	ACE TEL ASSN-IA	1,825	2,293	4,119	0	0	0
351888	88	GRAND RIVER MUT-IA	4,675	5,874	10,549	0	0	0
361140	88	CONTEL OF MINNESOTA	43,781	55,002	98,784	0	0	0
361346	88	ACE TEL ASSN-MN	5,200	6,532	11,732	0	0	0
361350	*	ARVIG TEL CO	3,056	3,837	6,892	2	7	10
361370	88	CLARA CITY TEL EXCH	462	580	1,041	0	0	0
361374	88	ARROWHEAD COMM CORP	177	222	399	0	0	0
361379	88	DEER RIVER TEL CO	623	782	1,405	0	0	0
361385	*	EAST OTTER TAIL TEL	5,681	7,131	12,812	71	223	294
361395	88	GARDEN VALLEY TEL CO	7,581	9,520	17,101	29	92	121
361410	88	JOHNSON TEL CO	522	656	1,178	0	0	0
361414	88	LAKEDALE TEL CO	2,699	3,392	6,091	36	113	148
361433	88	MID STATE TEL CO	2,145	2,694	4,839	0	0	0
361442	88	NEW ULM TELECOM, INC	4,196	5,270	9,466	0	0	0
361443	88	NORMAN COUNTY TEL CO	1,576	1,979	3,555	0	0	0
361451	88	PAUL BUNYAN RURAL	2,630	3,304	5,934	0	0	0
361483	88	SLEEPY EYE TEL CO	1,893	2,376	4,269	0	0	0
361491	*	TWIN VALLEY-ULEN TEL	1,267	1,590	2,857	0	0	0
371516	88	ARAPAHOE TEL CO	466	586	1,052	0	0	0
371517	88	ARLINGTON TEL CO	498	626	1,124	0	0	0
371524	88	BLAIR TEL CO	5,151	6,476	11,627	0	0	0
371525	88	THREE RIVER TELCO	730	916	1,646	0	0	0
371526	*	CAMBRIDGE TEL CO -NE	523	658	1,181	1	2	3
371531	*	CLARKS TEL CO	347	436	783	0	0	0
371534	88	COZAD TEL CO	1,165	1,464	2,629	0	0	0
371536	88	CURTIS TEL CO	284	357	641	0	0	0
371537	88	DALTON TEL CO, INC	786	989	1,775	0	0	0
371540	88	DILLER TEL CO	234	294	529	0	0	0
371542	88	EASTERN NEBRASKA TEL	1,600	2,010	3,609	0	0	0
371557	88	HARTMAN TEL EXCH INC	345	434	779	0	0	0
371558	88	HEMINGFORD COOP TEL	632	794	1,426	0	0	0
371567	*	KEYSTONE-ARTHUR TEL	202	253	455	9	28	37
371574	88	NEBRASKA CENTRAL TEL	1,910	2,401	4,310	24	74	98
371577	88	GREAT PLAINS COMMUN	13,484	16,942	30,426	1,324	4,180	5,505
371580	88	PETERSBURG TEL CO	115	145	260	0	0	0
371586	88	ROCK COUNTY TEL CO	512	644	1,156	0	0	0
371591	*	SE NEBRASKA TEL CO	1,630	2,048	3,678	0	0	0

TABLE 4.9

1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
371592	88	STANTON TEL CO, INC	395	497	892	0	0	0
371597	88	WAUNETA TEL CO	435	547	983	0	0	0
372455	88	BENKELMAN TEL CO	839	1,055	1,894	0	0	0
381447	88	CONTEL OF N. DAKOTA	5,418	6,810	12,228	0	0	0
381607	*	CONSOLIDATED COOP	2,535	3,185	5,720	0	0	0
381616	88	INTER-COMMUNITY TEL	667	838	1,505	0	0	0
381617	88	MIDSTATE TEL CO	1,089	1,368	2,457	2	5	7
381630	*	POLAR COMM MUT AID	4,821	6,058	10,879	0	0	0
381632	*	RESERVATION TEL COOP	2,637	3,313	5,949	16	51	68
381634	*	SOURIS RIVER TEL MUT	11,169	14,039	25,208	0	0	0
381637	88	W. RIVER MUTUAL AID	4,982	6,266	11,248	0	0	0
391643	88	CONTEL OF S. DAKOTA	4,594	5,772	10,367	42	132	175
391647	88	CHEYENNE RIVER SIOUX	1,126	1,415	2,540	0	0	0
391659	88	GOLDEN WEST TELECOMM	7,770	9,765	17,535	70	220	290
391666	88	JEFFERSON TEL CO -SD	584	734	1,319	17	55	72
391667	88	KADOKA TELEPHONE CO	324	407	731	0	0	0
391668	88	KENNEBEC TEL CO	174	218	392	1	3	5
391689	88	WEST RIVER COOP	1,037	1,302	2,339	5	17	22
401691	88	ALLTEL ARKANSAS INC	40,808	51,254	92,062	286	904	1,189
401692	88	ARKANSAS TEL CO	3,960	4,979	8,939	0	0	0
401697	88	CENTRAL ARKANSAS TEL	1,033	1,298	2,331	10	30	39
401698	88	CLEVELAND COUNTY TEL	977	1,227	2,203	0	0	0
401699	88	DECATUR TEL CO INC	514	645	1,159	0	0	0
401702	88	SOUTH ARKANSAS TEL	1,888	2,372	4,260	0	0	0
401705	88	LIBERTY TEL & COMM	7,990	10,047	18,037	45	142	187
401709	88	MADISON COUNTY TEL	1,574	1,976	3,550	0	0	0
401711	88	MOUNTAIN HOME TEL	11,931	15,011	26,942	95	300	395
401713	88	NORTH ARKANSAS TEL	3,846	4,832	8,678	0	0	0
401720	88	REDFIELD TEL CO	696	875	1,570	4	14	19
401726	88	TRI-COUNTY TEL CO-AR	2,597	3,265	5,861	66	208	275
401727	88	UNION TEL CO INC	827	1,040	1,867	0	0	0
401729	88	WALNUT HILL TEL CO	2,862	3,599	6,461	0	0	0
401730	88	CONTEL OF ARKANSAS	43,713	54,930	98,643	430	1,354	1,784
401733	88	YELCOT TEL CO INC	2,042	2,569	4,611	8	26	34
401734	88	YELL COUNTY TEL CO	2,007	2,522	4,529	84	266	351
411741	88	ASSARIA TEL EXCHANGE	185	232	416	0	0	0
411746	88	BLUE VALLEY TEL CO	1,189	1,494	2,683	0	0	0
411761	88	CUNNINGHAM TEL CO	541	679	1,220	0	0	0
411764	88	ELKHART TEL CO INC	1,512	1,900	3,411	10	31	41
411781	88	H & B COMMUNICATIONS	523	656	1,179	0	0	0
411782	88	HOME TEL CO	664	834	1,498	0	0	0
411785	88	J. B. N. TEL CO INC	1,522	1,912	3,434	0	0	0
411788	88	KANOKLA TEL ASSN-KS	1,299	1,633	2,931	11	35	47
411789	88	KANSAS STATE TEL CO	5,630	7,075	12,706	0	0	0

TABLE 4.9

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
411790	88	CONTEL OF KANSAS	25,410	31,915	57,325	0	0	0
411801	88	MADISON TEL CO INC	450	566	1,016	0	0	0
411807	88	MOKAN DIAL INC-KS	1,120	1,408	2,528	0	0	0
411808	88	MOUNDRIDGE TEL CO	1,020	1,281	2,301	0	0	0
411814	88	PEOPLES MUTUAL TEL	793	998	1,790	0	0	0
411817	88	PIONEER TEL ASSN INC	7,788	9,792	17,581	0	0	0
411818	88	CRAW-KAN TEL COOP	6,987	8,781	15,769	0	0	0
411826	88	RURAL TEL SERVICE CO	2,854	3,585	6,439	0	0	0
411827	88	S & T TEL COOP ASSN	898	1,128	2,026	0	0	0
411831	*	S. CENTRAL TEL - KS	462	580	1,042	0	0	0
411835	88	SUNFLOWER TEL CO	2,336	2,936	5,272	0	0	0
411840	88	TWIN VALLEY TEL INC	808	1,016	1,824	0	0	0
411841	88	UNITED TEL ASSN	2,488	3,128	5,616	0	0	0
411847	88	THE WHEAT STATE TEL	845	1,063	1,908	0	0	0
411849	88	WILSON TEL CO INC	693	871	1,564	0	0	0
411852	88	ZENDA TEL COMPANY	68	85	153	0	0	0
412030	88	TOTAH TELEPHONE CO	838	1,053	1,890	0	0	0
421807	88	MOKAN DIAL INC-MO	466	586	1,052	0	0	0
421846	88	CONTINENTAL SYS. -MO	22,784	28,609	51,393	294	929	1,223
421859	88	BOURBEUSE TEL	561	705	1,266	0	0	0
421865	88	CITIZENS TEL CO - MO	1,511	1,899	3,410	0	0	0
421873	88	EASTERN MISSOURI TEL	868	1,090	1,958	0	0	0
421882	88	FIDELITY TEL CO	3,798	4,773	8,571	0	0	0
421885	88	ALLTEL MISSOURI	13,017	16,363	29,380	5	15	19
421886	88	GOODMAN TEL CO	1,024	1,285	2,309	0	0	0
421888	88	GRAND RIVER MUT-MO	5,922	7,440	13,361	0	0	0
421901	88	KINGDOM TELEPHONE CO	1,172	1,473	2,645	0	0	0
421904	88	MISSOURI TEL CO	7,184	9,030	16,214	0	0	0
421908	88	LE-RU TELEPHONE CO	712	894	1,606	0	0	0
421922	88	CONTEL OF MISSOURI	88,065	110,692	198,758	1,410	4,448	5,857
421929	*	HOLWAY TEL CO	261	328	590	0	0	0
421931	88	NE MISSOURI RURAL	1,847	2,320	4,166	0	0	0
421934	*	ORCHARD FARM TEL CO	211	265	476	0	0	0
421951	88	STOUTLAND TEL CO	470	592	1,062	0	0	0
421963	*	WEBSTER COUNTY TEL	1,987	2,496	4,483	30	94	123
431788	88	KANOKLA TEL ASSN-OK	844	1,060	1,904	2	7	9
431831	*	S. CENTRAL TEL - OK	300	377	677	0	0	0
431965	88	ALLTEL OKLAHOMA INC	6,026	7,568	13,594	0	0	0
431966	88	ATLAS TEL CO	1,030	1,294	2,324	0	0	0
431974	88	CANADIAN VALLEY TEL	357	447	804	0	0	0
431976	88	CARNEGIE TEL CO INC	648	814	1,462	0	0	0
431979	88	CHEROKEE TEL CO	3,903	4,905	8,808	0	0	0
431980	88	CHICKASAW TEL CO	2,398	3,013	5,411	0	0	0
431981	88	CHOUTEAU TEL CO	983	1,236	2,219	0	0	0

TABLE 4.9

1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
431984	88	OKLAHOMA COMM SYSTEM	6,156	7,739	13,895	0	0	0
431985	88	CROSS TEL CO	3,446	4,331	7,777	0	0	0
431988	88	DOBSON TEL CO	2,183	2,743	4,926	0	0	0
431994	88	GRAND TEL CO INC	845	1,063	1,908	0	0	0
431995	88	HINTON TEL CO	1,159	1,457	2,616	0	0	0
432006	88	M-CLOUD TEL CO	2,744	3,446	6,190	0	0	0
432010	88	MID-AMERICA TEL INC	586	737	1,322	0	1	2
432011	88	OKLAHOMA ALLTEL, INC	8,141	10,221	18,362	78	246	323
432013	88	OKLAHOMA TEL & TEL	699	878	1,577	1	2	3
432014	88	OKLAHOMA WESTERN TEL	1,255	1,578	2,833	0	0	0
432016	88	PANHANDLE TEL COOP	6,481	8,147	14,628	95	301	397
432018	88	PIONEER TEL COOP INC	14,506	18,233	32,739	113	357	469
432020	88	POTTAWATOMIE TEL CO	840	1,056	1,896	0	0	0
432030	88	TOTAH TELEPHONE CO	1,188	1,494	2,682	0	0	0
432032	88	VALLIANT TEL CO	1,149	1,445	2,594	0	0	0
432034	88	WYANDOTTE TEL CO	402	506	908	0	1	1
440425	*	CAMERON TEL CO TEXAS	229	288	518	0	0	0
442039	88	BIG BEND TEL CO INC	1,128	1,417	2,545	0	0	0
442040	88	BRAZORIA TEL CO	1,161	1,460	2,621	28	87	114
442041	88	BRAZOS TEL COOP INC	233	293	526	3	10	13
442046	88	CAP ROCK TEL CO INC	507	637	1,144	0	0	0
442052	88	CENTRAL TEXAS CO-OP	704	884	1,588	9	30	39
442059	88	COLORADO VALLEY TEL	860	1,082	1,942	0	0	0
442066	88	DELL TEL. CO-OP - TX	378	475	854	0	0	0
442068	*	EASTEX TEL COOP INC	6,353	7,984	14,336	0	0	0
442070	88	ETEX TEL COOP INC	3,482	4,379	7,860	0	0	0
442071	88	FIVE AREA TEL CO-OP	578	727	1,305	0	0	0
442072	88	FORT BEND TEL CO	8,254	10,363	18,617	0	0	0
442076	88	GANADO TELEPHONE CO	202	254	456	0	0	0
442083	88	GUADALUPE VALLEY TEL	5,330	6,697	12,027	0	0	0
442086	*	HILL COUNTRY CO-OP	2,382	2,992	5,375	37	117	154
442093	88	INDUSTRY TEL CO	237	298	536	0	0	0
442097	88	KERRVILLE TEL CO	5,160	6,488	11,648	871	2,756	3,628
442101	88	LAKE DALLAS TEL CO	2,572	3,232	5,804	0	0	0
442103	88	LA WARD TEL EXCHANGE	167	210	378	0	0	0
442104	88	LAKE LIVINGSTON TEL	187	234	421	0	0	0
442109	88	LUFKIN-CONROE TEL EX	22,123	27,811	49,933	2,657	8,387	11,044
442112	88	MID-PLAINS RURAL TEL	632	794	1,426	0	0	0
442116	88	MUNSTER TEL CORP-TX	521	656	1,177	14	44	58
442117	88	MUSTANG TEL CO	934	1,176	2,110	53	167	220
442121	88	ALLTEL TEXAS INC	829	1,041	1,870	8	24	31
442129	88	PEEPLS TELEPHONE CO	162	204	366	5	15	20
442130	88	PEOPLES TEL COOP -TX	1,926	2,421	4,347	3	9	12
442131	88	POKA-LAMBRO RURAL	872	1,097	1,969	12	39	52

TABLE 4.9

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
442134	88	RIVIERA TEL CO INC	248	312	560	0	0	0
442135	*	SOUTHWEST TEXAS TEL	496	623	1,119	0	0	0
442136	88	ROMAIN TELEPHONE CO	194	245	439	5	15	20
442147	88	SUGAR LAND TEL CO	18,602	23,402	42,004	382	1,199	1,581
442148	88	SWEENEY-OLD OCEAN	708	891	1,599	15	45	60
442151	*	TAYLOR TEL CO-OP INC	1,235	1,548	2,782	0	0	0
442153	88	TEXAS-MIDLAND TEL	3,076	3,863	6,939	0	0	0
442155	88	TRI-COUNTY TEL - TX	155	194	349	11	35	46
442156	88	TRINITY VALLEY TEL	1,224	1,535	2,759	59	187	245
442159	*	VALLEY TEL CO-OP -TX	746	937	1,683	0	0	0
442163	88	WATERWOOD COMM INC	114	144	258	14	45	59
442166	88	WEST TEXAS RURAL TEL	908	1,141	2,048	0	0	0
442168	88	WES-TEX TEL CO-OP	701	881	1,583	0	0	0
442170	88	XIT RURAL TEL CO-OP	785	988	1,772	185	588	773
442262	88	ENMR TEL COOP-TX	138	173	310	0	0	0
452171	88	ARIZONA TELEPHONE CO	884	1,111	1,995	0	0	0
452172	88	CITIZENS UTILITIES	59,046	74,193	133,239	824	2,608	3,432
452173	88	PAPAGO TRIBAL UTIL.	326	410	736	0	0	0
452175	88	UNIVERSAL TEL OF SW	530	666	1,196	2	6	7
452176	88	VALLEY TEL COOP-AZ	1,357	1,703	3,060	0	0	0
452177	88	CONTEL OF WEST-AZ	14,255	17,919	32,174	229	728	957
452275	88	NAVAJO COMMUN-AZ	8,110	10,198	18,308	58	186	245
452302	88	CONTEL CALIF - AZ	5,887	5,820	11,707	0	289	289
461835	88	SUNFLOWER TEL - CO	269	339	608	0	0	0
462181	88	BIJOU TEL COOP ASSOC	760	955	1,716	0	0	0
462182	88	BLANCA TEL CO	336	421	757	0	0	0
462184	88	DELTA COUNTY TEL CO	3,770	4,737	8,507	411	1,294	1,705
462185	88	EAGLE TELECOMMUN INC	4,583	5,757	10,340	43	137	180
462186	88	EASTERN SLOPE RURAL	2,251	2,829	5,080	0	0	0
462187	88	EL PASO COUNTY TEL	1,327	1,665	2,992	0	0	0
462188	88	FARMERS TEL CO - CO	237	298	535	0	0	0
462190	88	HAXTUN TEL CO	725	911	1,636	0	0	0
462192	88	BIG SANDY TELCOMM	336	422	758	0	0	0
462193	88	NUCLA-NATURITA TEL	725	911	1,635	0	0	0
462194	88	NUNN TEL CO	152	191	343	0	0	0
462196	88	PEETZ COOP TEL CO	167	210	376	0	0	0
462199	88	PLAINS COOP TEL ASSN	908	1,140	2,048	0	0	0
462203	88	RYE TELEPHONE CO	987	1,242	2,229	0	0	0
462204	88	COLUMBINE TEL CO	552	693	1,245	0	0	0
462207	88	STRASBURG TEL CO	469	589	1,058	0	0	0
462208	88	UNIVERSAL TEL CO -CO	3,935	4,936	8,871	1	3	4
462209	88	WIGGINS TEL ASSOC	665	836	1,501	0	0	0
472177	88	CONTEL OF WEST-ID	7,570	9,512	17,083	39	124	163
472213	88	ALBION TEL CO INC	739	929	1,668	0	0	0

TABLE 4.9

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
472215	88	CAMBRIDGE TEL CO	489	615	1,104	0	0	0
472218	88	CUSTER TEL COOP	1,496	1,879	3,376	0	0	0
472223	88	GEM STATE UTIL-ID	705	886	1,591	7	22	29
472225	*	CENTURY TEL OF IDAHO	2,755	3,462	6,216	10	31	41
472226	88	MIDVALE TEL EXCH INC	165	208	373	0	1	1
472231	88	PROJECT MUTUAL TEL	3,540	4,447	7,987	0	0	0
472232	88	ROCKLAND TEL CO INC	191	240	430	0	0	0
472233	88	RURAL TEL CO - ID	96	121	218	1	4	5
472234	88	TROY TELEPHONE CO	634	797	1,431	0	0	0
472295	88	SILVER STAR TEL- ID	276	346	622	0	0	0
472423	88	INLAND TEL-ID	234	295	529	0	0	0
482235	88	BLACKFOOT TEL COOP	4,117	5,173	9,290	0	1	1
482241	*	HOT SPRINGS TEL CO	298	375	673	0	0	0
482242	88	INTERBEL TEL COOP	809	1,017	1,826	0	0	0
482244	88	LINCOLN TEL CO INC	429	539	968	0	1	1
482246	88	MID-RIVERS TEL COOP	3,602	4,527	8,129	3	11	14
482247	88	NEMONT TEL COOP-MT	1,528	1,920	3,447	0	0	0
482248	88	NORTHERN TEL COOP	1,197	1,505	2,702	7	21	28
482249	88	NW TEL SYSTEMS, INC.	33,949	42,658	76,607	1,746	5,531	7,277
482250	88	PROJECT TEL CO	1,872	2,352	4,224	0	0	0
482251	88	RANGE TEL COOP-MT	2,262	2,842	5,103	0	0	0
482254	88	SOUTHERN MONTANA TEL	549	691	1,240	1	3	4
482255	88	3-RIVERS TEL COOP	5,018	6,304	11,322	0	0	0
482257	88	TRIANGLE TEL COOP	5,067	6,359	11,426	20	63	83
482258	88	VALLEY RURAL TEL	420	527	947	0	0	0
492066	88	DELL TEL CO-OP - NM	180	227	407	0	0	0
492176	88	VALLEY TEL COOP - NM	1,085	1,363	2,448	0	0	0
492177	88	CONTEL OF WEST - NM	14,961	18,802	33,763	208	657	864
492259	88	BACA VALLEY TEL CO	506	636	1,142	0	0	0
492262	88	ENMR TEL COOP INC-NM	7,110	8,964	16,074	0	0	0
492263	88	LA JICARITA RURAL	813	1,022	1,836	0	0	0
492264	*	LEACO RURAL TEL COOP	526	661	1,187	0	0	0
492268	88	WESTERN NEW MEXICO	3,072	3,860	6,932	0	0	0
492270	88	PENASCO VALLEY TEL	842	1,057	1,899	0	0	0
492272	88	ROOSEVELT CNTY RURAL	1,144	1,439	2,584	0	0	0
492274	88	UNIVERSAL TEL OF SW	2,707	3,401	6,108	5	18	23
492275	88	NAVAJO COMMUN - NM	3,017	3,791	6,808	16	50	65
502177	88	CONTEL THE WEST - UT	9,841	12,377	22,218	149	472	620
502275	88	NAVAJO COMMUN - UT	446	560	1,006	2	6	8
502277	88	CENTRAL UTAH TEL INC	273	343	615	0	0	0
502278	88	EMERY COUNTY FARMERS	1,232	1,548	2,780	19	59	78
502280	88	KAMAS-WOODLAND TEL	677	850	1,527	0	0	0
502284	88	BEEHIVE TEL CO - UT	382	480	862	0	0	0
502286	88	SOUTH CENTRAL UTAH	1,661	2,088	3,750	0	0	0

TABLE 4.9

1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
MINUTES OF USE (IN THOUSANDS)

F CODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
502287	88	UINTAH BASIN TEL	1,090	1,370	2,459	0	0	0
502288	88	UT-WY TELECOM	335	421	756	0	0	0
512251	88	RANGE TEL COOP - WY	1,302	1,636	2,938	0	0	0
512290	88	UTAH-WYOMING TELECOM	289	364	653	0	0	0
512291	88	DUBOIS TEL EXCHANGE	1,384	1,737	3,121	1	2	3
512294	*	MEDICINE BOW TEL CO	216	271	486	0	0	0
512295	88	SILVER STAR TEL-WY	1,000	1,255	2,255	0	0	0
512297	88	UNION TELEPHONE CO	3,549	4,460	8,009	0	0	0
512299	88	TEL. UTIL. OF WY.	2,453	3,081	5,534	12	40	52
522404	*	ASOTIN TEL - WA	608	763	1,371	0	0	0
522408	88	TEL UTIL OF WA INC	50,693	63,704	114,397	277	882	1,159
522410	88	COWICHE TELEPHONE CO	647	813	1,460	0	0	0
522412	88	ELLENSBURG TEL CO	8,839	11,108	19,947	153	486	639
522417	*	HAT ISLAND TEL CO	6	8	14	0	0	0
522419	88	HOOD CANAL TEL CO	347	435	782	0	0	0
522423	88	INLAND TEL CO -WA	748	940	1,688	0	0	0
522426	88	KALAMA TEL CO	1,242	1,561	2,803	5	16	21
522427	88	LEWIS RIVER TEL CO	2,063	2,590	4,652	11	33	44
522431	88	MASHELL TEL CO INC	842	1,058	1,900	0	0	0
522436	88	PENINSULA TELECOMM	2,729	3,430	6,160	19	59	78
522437	88	PIONEER TEL CO	352	442	794	0	0	0
522442	88	ST JOHN TEL CO	239	301	540	0	0	0
522446	88	TENINO TELEPHONE CO	1,132	1,423	2,555	0	0	0
522447	88	TOLEDO TELEPHONE CO	995	1,249	2,243	0	0	0
522449	88	CONTEL OF THE NW-WA	27,049	33,996	61,045	671	2,116	2,787
522451	88	WESTERN WAHIAKUM	644	809	1,453	2	8	10
522452	88	WHIDBEY TEL CO.	4,156	5,215	9,371	22	69	91
522453	88	YELM TELEPHONE CO	2,685	3,376	6,061	0	0	0
532226	88	MIDVALE TEL EXCH -OR	147	185	332	0	0	0
532304	88	C P NATIONAL CORP-OR	7,144	8,984	16,128	25	80	105
532359	88	BEAVER CREEK COOP	2,331	2,928	5,259	10	32	43
532361	88	TEL UTIL OF OREGON	25,391	31,904	57,295	145	460	605
532362	88	CANBY TEL ASSN	5,196	6,525	11,721	0	0	0
532363	88	CLEAR CREEK MUTUAL	1,851	2,325	4,176	0	0	0
532364	88	COLTON TEL CO	614	772	1,386	0	0	0
532371	88	CASCADE UTIL INC	4,846	6,090	10,935	4	13	17
532375	88	RTI/HALSEY TEL CO	585	738	1,323	46	146	192
532376	88	HELIX TEL CO.	113	142	255	0	0	0
532377	88	HOME TELEPHONE CO	251	316	567	0	0	0
532378	88	TRANS-CASCADES TEL	58	73	131	0	0	0
532383	88	MOLALLA TEL CO.	2,615	3,283	5,898	0	0	0
532385	88	MONROE TELEPHONE CO.	392	492	884	0	0	0
532387	88	NEHALEM TEL & TEL	791	993	1,783	4	13	17
532388	88	NORTH STATE TEL CO.	294	370	664	0	0	0

TABLE 4.9

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
532389	88	OREGON TEL CORP	984	1,236	2,220	0	0	0
532392	88	PINE TEL SYSTEM INC.	506	636	1,142	0	0	0
532393	88	PIONEER TEL COOP	6,452	8,105	14,558	47	148	194
532397	88	SCIO MUTUAL TEL ASSN	894	1,124	2,018	8	26	34
532404	*	ASOTIN TEL - OR	95	120	215	0	0	0
532449	88	CONTEL OF THE NW- OR	12,162	15,286	27,447	114	361	475
532456	88	MALHEUR HOME TEL CO	12,311	15,462	27,773	258	817	1,075
542301	88	CALAVERAS TEL CO	507	637	1,144	0	0	0
542304	88	C P NATIONAL CORP-CA	3,749	4,710	8,459	37	118	155
542308	88	CITIZENS UTIL OF CA	24,373	30,620	54,993	335	1,061	1,396
542311	88	CALIF-OREGON TEL CO	1,475	1,853	3,329	0	0	0
542313	88	DUCOR TELEPHONE CO	148	186	334	0	0	0
542315	88	EVANS TEL CO.	2,840	3,565	6,405	0	0	0
542318	*	FORESTHILL TEL CO.	516	648	1,165	0	0	0
542321	*	HAPPY VALLEY TEL CO	910	1,143	2,052	0	0	0
542322	*	HORNITOS TEL CO	397	498	895	0	0	0
542324	88	KERMAN TELEPHONE CO	1,402	1,761	3,164	15	48	63
542332	88	THE PONDEROSA TEL CO	1,389	1,745	3,134	10	33	43
542334	88	ROSEVILLE TEL CO	27,898	35,056	62,955	3,109	9,826	12,935
542338	*	SIERRA TELEPHONE CO	4,808	6,038	10,846	40	127	167
542339	88	THE SISKIYOU TEL CO	1,892	2,377	4,268	21	66	87
542342	88	TUOLUMNE TEL CO	1,099	1,380	2,479	7	21	28
542343	88	THE VOLCANO TEL CO	2,075	2,607	4,681	0	0	0
542346	88	PINNACLES TEL CO	92	115	207	0	0	0
552223	88	GEM STATE UTIL-NV	368	462	830	1	3	4
552233	88	RURAL TEL CO - NV	506	635	1,141	4	12	16
552284	88	BEEHIVE TEL CO - NV	162	203	365	0	0	0
552302	88	CONTEL OF CALIF-NV	27,647	32,084	59,731	5,373	3,337	8,710
552304	88	CP NATIONAL-NV	11,990	15,060	27,050	165	527	692
552349	88	CHURCHILL COUNTY TEL	10,017	12,590	22,606	0	0	0
552351	88	LINCOLN CTY TEL SYS	1,202	1,511	2,713	13	41	54
552353	88	MOAPA VALLEY TEL CO.	1,476	1,855	3,331	0	0	0
552354	88	NEVADA TEL-TELEGRAPH	4,395	5,515	9,910	16	51	67
552356	88	RIO VIRGIN TEL CO	1,387	1,742	3,129	55	174	229
613000	88	ANCHORAGE TEL UTIL	120,845	151,874	272,718	0	0	0
613001	88	ARCTIC SLOPE TEL	2,068	2,602	4,670	0	0	0
613003	88	BRISTOL BAY TEL COOP	772	966	1,739	0	0	0
613004	*	BUSH-TELL INC.	168	211	380	0	0	0
613006	*	COPPER VALLEY TEL	2,201	2,763	4,964	0	0	0
613007	88	CORDOVA TEL COOP	1,328	1,669	2,997	0	0	0
613008	88	FAIRBANKS MUNICIPAL	27,087	34,054	61,142	0	0	0
613009	88	GTE ALASKA INC.	9,706	12,193	21,899	0	0	0
613010	88	GLACIER STATE TEL CO	28,447	35,744	64,190	0	0	0
613011	88	INTERIOR TEL CO INC	2,476	3,112	5,588	0	0	0

TABLE 4.9

1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
MINUTES OF USE (IN THOUSANDS)

FCODE	YEAR	CARRIER	ORIG PREM	TERM PREM	TOT PREM	ORIG NP	TERM NP	TOT NP
613012	88	JUNEAU & DOUGLAS TEL	18,793	23,605	42,398	0	0	0
613013	88	KETCHIKAN PUBLIC UT	8,239	10,349	18,587	0	0	0
613015	88	MATANUSKA TEL ASSOC	25,138	31,610	56,747	0	0	0
613016	*	MUKLUK TEL CO INC	543	682	1,225	0	0	0
613018	88	NUSHAGAK TEL COOP	918	1,153	2,071	0	0	0
613019	*	OTZ TEL COOPERATIVE	904	1,135	2,040	0	0	0
613020	88	SITKA TELEPHONE CO	7,480	9,402	16,882	0	0	0
613022	88	TEL UTIL OF ALASKA	3,471	4,364	7,835	0	0	0
613023	88	UNITED UTILITIES INC	1,077	1,353	2,430	0	0	0
613025	88	YUKON TEL CO INC	161	201	362	0	0	0
633200	*	PUERTO RICO COMM	38,359	48,226	86,585	2	5	6
643300	88	VIRGIN ISLANDS TEL	65,761	82,624	148,384	614	1,940	2,554
584		NONTIER 1 CO's TOTAL	3,363,387	4,218,685	7,582,053	87,178	266,560	353,737
888888	88	AVERAGE SCHEDULE CO.	1,584,901	1,913,882	3,576,289	56,175	177,347	233,521
TOTAL		NONTIER 1 & AV. SCH.	4,948,288	6,132,567	11,158,342	143,353	443,907	587,258

* - COMPANIES WHO NECA COMPUTED DATA FOR

TABLE 4.10

 1987 TIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS, MSG'S AND SLU (IN THOUSANDS)

FCODE	YR CARRIER	NO. LOOPS	ST MSGS	IS MSGS	LOC SLU	ST SLU	IS SLU	TOT SLU
105111	87 NEW ENGLAND TEL-ME	535	122,527	70,623	5,180,211	923,892	899,091	7,003,193
115112	87 NEW ENGLAND TEL-MA	3,688	915,167	581,353	43,737,037	6,886,310	7,447,114	58,070,462
125113	87 NEW ENGLAND TEL-NH	576	125,362	139,871	5,175,441	951,588	1,677,011	7,804,040
135200	87 SOUTHERN NEW ENGLAND	1,953	470,457	381,923	23,299,009	4,069,445	4,715,973	32,084,428
145115	87 NEW ENGLAND TEL-VT	255	47,973	54,961	2,241,858	386,147	647,229	3,275,234
150096	87 CONTEL OF NY, INC	184	56,810	16,779	1,641,826	653,583	280,339	2,575,747
150121	87 ROCHESTER TEL CORP	437	51,832	36,372	6,133,394	653,684	611,407	7,398,485
155130	87 NEW YORK TEL CO	10,107	678,402	1,477,685	145,764,728	7,776,702	20,269,645	173,811,075
160138	87 UNITED TEL - NJ, INC	133	73,356	27,276	742,274	719,261	332,119	1,793,653
165120	87 NEW JERSEY BELL	4,884	1,953,722	943,427	45,717,784	18,752,280	14,153,457	78,623,521
170169	87 GTE NORTH INC. - PA	418	96,252	66,314	5,621,626	718,724	661,926	7,002,276
170209	87 UTC OF PENNSYLVANIA	282	72,888	31,171	2,604,262	729,037	375,189	3,708,488
175000	87 BELL OF PENNSYLVANIA	5,127	775,159	622,040	71,045,728	8,140,128	10,283,272	89,469,128
185030	87 C & P TEL CO OF MD	2,722	178,615	322,148	42,774,836	2,275,567	5,975,012	51,025,415
190233	87 CONTEL OF VIRGINIA	335	63,824	26,395	3,463,577	990,685	908,622	5,362,884
190254	87 CENTEL OF VIRGINIA	205	34,649	21,496	2,376,022	397,274	380,191	3,153,487
190479	87 GTE SOUTH INC. - VA	30	9,933	11,706	438,165	54,610	55,090	547,864
190567	87 UNITED INTER-MT-VA	72	10,823	12,162	988,220	117,131	137,290	1,242,641
195040	87 C & P TEL CO OF VA	2,499	227,682	318,269	37,210,113	2,852,975	5,869,083	45,932,171
200479	87 GTE SOUTH INC. - WV	64	18,165	18,253	766,423	109,032	160,090	1,035,545
205050	87 C & P TEL CO OF WV	684	93,839	84,184	10,590,141	958,976	1,309,490	12,858,608
210328	87 GTE FLORIDA INC.	1,610	436,182	329,975	15,811,575	2,476,706	3,299,704	21,587,985
210340	87 CENTEL OF FLORIDA	235	30,213	31,195	2,670,957	447,995	576,196	3,695,149
210341	87 UTC OF FLORIDA	903	147,943	108,735	8,121,466	1,365,265	1,796,045	11,282,777
215191	87 SOUTHERN BELL-FL	4,181	577,974	581,634	55,212,151	5,574,278	8,486,733	69,273,162
220479	87 GTE SOUTH INC.- GA	193	61,927	34,899	2,373,516	452,317	272,441	3,098,274
225192	87 SOUTHERN BELL-GA	2,641	302,938	437,330	45,029,727	2,622,029	4,864,398	52,516,155
230470	87 CAROLINA TEL & TEL	745	157,414	98,975	9,237,720	1,376,834	1,489,320	12,103,874
230471	87 CENTEL OF NC	193	35,980	15,070	2,445,714	379,596	238,670	3,063,980
230479	87 GTE SOUTH INC - NC	139	57,028	59,235	1,655,436	268,984	329,272	2,253,693
235193	87 SOUTHERN BELL-NC	1,599	270,220	220,045	22,618,654	2,283,940	2,709,244	27,611,837
240479	87 GTE SOUTH INC. - SC	132	37,167	53,310	1,570,874	244,073	363,168	2,178,115
240506	87 UTC OF THE CAROLINAS	67	10,664	8,735	861,978	113,117	128,986	1,104,081
245194	87 SOUTHERN BELL-SC	1,024	114,856	142,568	17,205,990	1,157,045	1,937,609	20,300,645
250293	87 GTE SOUTH INC. - AL	117	41,339	31,706	1,439,790	206,939	250,320	1,897,049
255181	87 SO CENTRAL BELL-AL	1,443	168,115	192,708	26,771,005	1,512,401	2,303,254	30,586,660
260407	87 GTE SOUTH INC. - KY	309	99,115	101,516	4,182,317	520,113	678,519	5,380,949
265061	87 CINCINNATI BELL-KY	136	5,751	15,769	2,391,770	82,531	253,636	2,727,937
265182	87 SO CENTRAL BELL-KY	917	104,209	117,018	15,496,405	1,022,316	1,406,528	17,925,248
275183	87 SO CENTRAL BELL-LA	1,854	256,343	212,501	31,389,489	2,239,455	2,646,685	36,275,629
285184	87 SO CENTRAL BELL-MS	929	151,321	145,067	15,261,725	1,372,970	1,665,302	18,299,997
290479	87 GTE SOUTH INC. - TN	49	20,324	18,701	607,348	90,888	77,721	775,956
290567	87 UNITED INTER-MT-TN	168	28,306	28,199	2,575,775	285,123	314,718	3,175,615
295185	87 SO. CENTRAL BELL -TN	1,955	230,334	267,413	34,701,545	2,142,974	3,429,050	40,273,570
300615	87 GTE NORTH INC. - OH	643	194,473	72,402	7,502,607	1,505,610	924,093	9,932,310
300630	87 CENTEL OF OHIO	63	12,412	4,536	721,592	162,202	101,164	984,957

TABLE 4.10

 1987 TIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS, MSG'S AND SLU (IN THOUSANDS)

FCODE	YR CARRIER	NO. LOOPS	ST MSGS	IS MSGS	LOC SLU	ST SLU	IS SLU	TOT SLU
300661	87 UTC OF OHIO	441	101,217	43,134	4,694,471	989,704	573,873	6,258,049
305062	87 CINCINNATI BELL-OH	663	39,471	83,386	11,775,709	542,425	1,510,185	13,828,320
305150	87 OHIO BELL TEL CO	3,277	360,880	344,007	50,686,807	4,677,773	6,614,614	61,979,194
310695	87 GTE NORTH INC. - MI	483	245,895	63,459	4,776,359	1,466,529	587,251	6,830,140
315090	87 MICHIGAN BELL TEL CO	4,154	874,648	396,131	59,068,197	8,887,742	5,271,363	73,227,302
320772	87 GTE NORTH INC. - IN	563	175,923	130,274	7,109,629	944,309	1,117,740	9,171,678
320832	87 UTC OF INDIANA	175	41,279	20,857	1,510,265	389,749	246,077	2,146,091
325080	87 INDIANA BELL TEL CO	1,572	171,324	204,399	23,476,384	2,019,472	3,334,682	28,830,537
330886	87 GTE NORTH INC. - WI	339	102,182	26,029	2,926,291	769,166	427,164	4,122,621
335220	87 WISCONSIN BELL	1,684	195,226	169,985	21,117,002	2,240,594	3,086,257	26,443,853
340985	87 CENTEL OF ILLINOIS	191	25,133	30,548	2,008,853	269,118	467,304	2,745,275
341015	87 GTE NORTH INC. - IL	562	222,770	77,660	5,153,578	1,671,372	769,326	7,594,276
345070	87 ILLINOIS BELL TEL CO	5,433	341,191	726,879	78,156,842	3,659,153	11,842,408	93,658,403
351186	87 GTE NORTH INC. - IA	107	9,863	3,794	778,654	287,717	139,447	1,205,818
351317	87 UTC OF IOWA	64	16,146	6,954	483,472	156,825	92,315	732,612
355141	87 NORTHWESTERN BELL-IA	916	131,945	128,627	10,603,761	1,541,659	2,204,203	14,349,623
361186	87 GTE NORTH INC. - MN	3	0	0	20,502	8,760	4,399	33,661
361367	87 CENTEL OF MN	72	12,481	6,456	808,239	143,784	118,021	1,070,044
361456	87 UTC OF MINNESOTA	97	17,430	6,961	1,008,390	180,101	105,213	1,293,704
365142	87 NORTHWESTERN BELL-MN	1,755	156,780	233,639	24,019,190	1,911,187	3,790,668	29,721,045
371186	87 GTE NORTH INC. - NE	44	4,789	2,728	359,119	105,135	66,769	531,022
371568	87 LINCOLN TEL & TEL CO	231	39,291	27,543	2,309,274	420,001	430,323	3,159,598
371595	87 UTC OF THE WEST-NE	24	2,328	3,622	235,010	26,511	48,588	310,110
375143	87 NORTHWESTERN BELL-NE	462	46,640	82,434	6,062,108	540,636	1,450,382	8,053,126
385144	87 NORTHWESTERN BELL-ND	262	35,825	41,212	2,730,628	390,112	575,660	3,696,400
395145	87 NORTHWESTERN BELL-SD	260	34,247	40,824	2,480,736	403,040	623,829	3,507,605
401728	87 UTC OF ARKANSAS	16	4,025	2,082	124,150	33,515	32,285	189,950
402080	87 GTE SOUTHWEST INC-AR	61	19,779	9,749	701,957	143,500	120,089	965,546
405211	87 SOUTHWESTERN BELL-AR	717	121,690	123,745	9,810,591	1,166,353	1,430,548	12,407,492
411842	87 UTC OF KANSAS	66	16,497	7,800	454,336	152,780	139,728	746,844
415214	87 SOUTHWESTERN BELL-KS	1,058	134,233	151,719	12,743,843	1,496,752	2,125,523	16,366,118
421186	87 GTE NORTH INC. - MO	90	11,256	6,722	850,502	253,398	202,087	1,305,988
421957	87 UTC OF MISSOURI	176	42,227	19,249	1,362,674	421,696	311,181	2,095,551
425213	87 SOUTHWESTERN BELL-MO	2,037	192,219	261,599	32,999,818	2,072,977	3,901,667	38,974,463
432080	87 GTE SOUTHWEST INC-OK	98	34,172	22,946	962,216	258,124	228,022	1,448,362
435215	87 SOUTHWESTERN BELL-OK	1,342	199,746	158,788	16,483,273	2,163,617	2,478,957	21,125,847
442080	87 GTE SOUTHWEST INC-TX	1,063	429,929	198,350	12,107,146	2,839,373	1,987,296	16,933,816
442084	87 UTC OF TEXAS INC	100	35,610	4,872	820,475	350,491	92,391	1,263,357
442114	87 CENTEL OF TEXAS	121	27,294	14,900	1,317,095	300,763	291,310	1,909,168
442154	87 CONTEL OF TEXAS	155	56,402	9,569	1,232,615	606,292	187,956	2,026,862
445216	87 SOUTHWESTERN BELL-TX	6,785	876,095	639,165	101,625,439	11,351,257	10,495,338	123,472,034
455101	87 MOUNTAIN BELL - AZ	1,734	119,152	237,741	22,823,158	1,676,565	4,744,361	29,244,084
465102	87 MOUNTAIN BELL-CO	1,812	174,360	263,065	23,120,086	2,237,527	5,107,241	30,464,854
472416	87 GTE NORTHWEST INC-ID	67	12,011	16,921	638,503	112,867	203,510	954,880
475103	87 MOUNTAIN BELL-ID	329	48,300	54,017	3,406,568	525,805	823,523	4,755,896
475162	87 PACIFIC NW BELL-ID	23	3,158	4,548	276,238	38,114	63,312	377,664

TABLE 4.10

1987 TIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS, MSG'S AND SLU (IN THOUSANDS)

FCODE	YR CARRIER	NO.LOOPS	ST MSGS	IS MSGS	LOC SLU	ST SLU	IS SLU	TOT SLU
482416	87 GTE NORTHWEST INC-MT	6	0	0	58,406	9,583	14,199	82,189
485104	87 MOUNTAIN BELL-MT	306	53,754	46,519	2,902,217	629,598	695,256	4,227,071
492080	87 GTE SOUTHWEST INC-NM	39	9,245	12,881	410,531	50,579	94,172	555,282
495105	87 MOUNTAIN BELL-NM	560	59,624	90,209	7,569,161	690,618	1,490,170	9,749,949
505107	87 MOUNTAIN BELL-UT	704	79,696	90,585	10,123,148	894,382	1,649,727	12,667,257
511595	87 UTC OF THE WEST-WY	6	702	1,146	44,203	7,374	15,417	66,994
515108	87 MOUNTAIN BELL-WY	223	27,130	43,672	1,894,367	324,791	639,392	2,858,550
522400	87 UTC OF THE NW-WA	49	16,525	5,386	330,013	152,194	78,995	561,202
522416	87 GTE NORTHWEST INC-WA	487	88,963	48,268	5,549,899	1,036,346	803,435	7,389,679
525161	87 PACIFIC NW BELL-WA	1,830	275,099	219,660	21,452,707	3,054,319	3,793,625	28,300,651
532400	87 UTC OF THE NW - OR	46	12,739	5,118	330,837	123,209	76,196	530,242
532416	87 GTE NORTHWEST INC-OR	257	43,674	35,643	2,952,710	462,103	496,417	3,911,231
535163	87 PACIFIC NW BELL-OR	990	158,393	139,523	10,694,863	1,698,853	2,287,570	14,681,287
542302	87 CONTEL OF CALIFORNIA	255	92,362	19,887	1,884,014	867,056	298,857	3,049,928
542319	87 GTC OF CALIFORNIA	3,188	0	0	33,840,949	10,701,711	4,368,236	48,910,896
542344	87 WEST COAST TEL OF CA	9	1,602	961	71,547	20,984	12,302	104,833
545170	87 PACIFIC BELL	13,113	4,275,951	1,160,075	148,611,270	39,175,039	17,473,858	205,260,166
552348	87 CENTEL OF NV	358	6,411	92,912	4,198,919	80,089	1,318,840	5,597,848
555173	87 NEVADA BELL	207	14,354	42,408	2,103,433	163,152	577,007	2,843,591
565010	87 DIAMOND STATE TEL	406	21,660	87,751	5,088,713	225,821	1,270,743	6,585,278
575020	87 C & P TEL CO OF WASH	881	0	115,799	13,646,847	0	2,922,386	16,569,233
585114	87 NEW ENGLAND TEL - RI	532	56,152	106,747	6,604,554	462,324	1,253,119	8,319,996
623100	87 GTE HAWAIIAN TEL. CO	541	56,278	60,124	7,800,755	336,851	1,300,807	9,438,413
633201	87 PUERTO RICO TEL CO	706	130,545	38,847	7,574,335	1,305,727	866,331	9,746,394
116	TIER 1 CO'S TOTALS	124,818	21,073,903	16,166,860	1,649,328,352	214,339,775	241,952,859	2,105,620,992

TABLE 4.11

1988 TIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS,MSG & SLU (IN THOUSANDS)

F CODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSGS	LOC SLU	ST SLU	IS SLU	TOT SLU
105111	88	NEW ENGLAND TEL-ME	560	132,653	78,324	5,170,246	1,163,603	1,156,082	7,489,932
115112	88	NEW ENGLAND TEL-MA	3,798	996,760	600,382	45,990,895	8,751,269	9,641,865	64,384,029
125113	88	NEW ENGLAND TEL-NH	601	139,099	154,084	5,733,233	1,080,553	1,920,112	8,733,899
135200	88	SOUTHERN NEW ENGLAND	2,032	518,659	399,659	23,577,979	4,431,848	5,973,250	33,983,078
145115	88	NEW ENGLAND TEL-VT	266	50,942	57,319	2,338,881	462,222	816,892	3,617,995
150096	88	CONTEL OF NY, INC	196	63,789	22,325	1,713,374	709,709	335,578	2,758,661
150121	88	ROCHESTER TEL CORP	451	54,668	40,142	6,508,077	713,346	748,497	7,969,920
155130	88	NEW YORK TEL CO	10,160	654,003	1,549,160	151,437,766	8,347,413	26,593,960	186,379,140
160138	88	UNITED TEL - NJ, INC	142	79,980	29,082	797,179	788,130	387,486	1,972,796
165120	88	NEW JERSEY BELL	5,024	2,079,366	1,021,491	48,240,339	20,062,237	16,168,811	84,471,387
170169	88	GTE NORTH INC. - PA	446	88,083	57,679	5,788,934	853,014	767,376	7,409,324
170209	88	UTC OF PENNSYLVANIA	295	78,831	32,311	2,657,876	827,350	469,089	3,954,315
175000	88	BELL OF PENNSYLVANIA	5,289	825,903	657,986	73,441,999	8,758,185	11,618,504	93,818,688
185030	88	C & P TEL CO OF MD	2,788	184,172	347,252	45,467,785	2,370,602	6,745,842	54,584,229
190233	88	CONTEL OF VIRGINIA	369	73,628	63,045	3,842,764	761,197	1,045,023	5,648,984
190254	88	CENTEL OF VIRGINIA	215	40,656	26,828	2,445,933	513,886	536,999	3,496,819
190479	88	GTE SOUTH INC. - VA	30	5,657	11,505	449,105	59,540	69,551	578,196
190567	88	UNITED INTER-MT-VA	76	12,112	14,516	1,057,040	134,691	172,965	1,364,696
195040	88	C & P TEL CO OF VA	2,576	226,316	323,041	39,495,991	3,062,531	6,352,703	48,911,226
200479	88	GTE SOUTH INC. - WV	65	12,378	22,993	788,124	113,089	184,803	1,086,015
205050	88	C & P TEL CO OF WV	692	89,507	82,426	10,671,638	931,272	1,363,049	12,965,959
210328	88	GTE FLORIDA INC.	1,685	352,380	344,625	17,572,539	2,771,130	4,001,790	24,345,459
210340	88	CENTEL OF FLORIDA	256	38,635	40,233	2,893,816	503,231	640,388	4,037,436
210341	88	UTC OF FLORIDA	977	168,440	122,549	8,306,678	1,426,170	2,013,407	11,746,255
215191	88	SOUTHERN BELL-FL	4,378	634,429	830,322	59,871,908	6,912,770	12,058,879	78,843,557
220479	88	GTE SOUTH INC.- GA	202	58,930	55,403	2,490,992	464,930	326,857	3,282,779
225192	88	SOUTHERN BELL-GA	2,731	339,172	602,340	48,657,455	3,301,475	6,964,062	58,922,992
230470	88	CAROLINA TEL & TEL	778	175,569	110,535	9,407,177	1,540,360	1,760,461	12,707,998
230471	88	CENTEL OF NC	200	41,106	18,559	2,443,238	472,840	338,498	3,254,577
230479	88	GTE SOUTH INC - NC	146	53,134	58,145	1,857,605	296,523	356,444	2,510,572
235193	88	SOUTHERN BELL-NC	1,661	319,058	277,212	23,655,965	2,943,415	3,694,088	30,293,468
240479	88	GTE SOUTH INC. - SC	138	36,929	51,712	1,610,258	261,525	398,647	2,270,430
240506	88	UTC OF THE CAROLINAS	70	12,278	10,377	931,414	129,349	157,426	1,218,189
245194	88	SOUTHERN BELL-SC	1,062	133,879	204,346	18,058,469	1,433,286	2,648,317	22,140,073
250293	88	GTE SOUTH INC. - AL	121	31,394	52,849	1,446,613	226,324	258,282	1,931,219
255181	88	SO CENTRAL BELL-AL	1,510	186,694	245,886	28,186,070	1,797,116	3,077,229	33,060,415
260407	88	GTE SOUTH INC. - KY	317	83,071	121,288	4,527,535	553,704	680,009	5,761,248
265061	88	CINCINNATI BELL-KY	142	5,956	15,817	2,489,457	94,233	280,253	2,863,943
265182	88	SO CENTRAL BELL-KY	941	121,225	153,461	15,989,331	1,171,536	1,892,690	19,053,557
275183	88	SO CENTRAL BELL-LA	1,868	282,294	281,843	32,079,361	2,607,408	3,596,963	38,283,732
285184	88	SO CENTRAL BELL-MS	971	164,246	168,478	16,052,542	1,539,786	2,221,681	19,814,008
290479	88	GTE SOUTH INC. - TN	51	13,339	13,825	625,314	101,863	93,054	820,231
290567	88	UNITED INTER-MT-TN	172	31,845	31,413	2,717,038	324,243	388,943	3,430,224
295185	88	SO. CENTRAL BELL -TN	2,019	270,544	357,533	35,771,654	2,680,606	4,496,378	42,948,639

TABLE 4.11

1988 TIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS,MSG & SLU (IN THOUSANDS)

FCODE	YR CARRIER	NO. LOOPS	ST MSGS	IS MSGS	LOC SLU	ST SLU	IS SLU	TOT SLU
300615	88 GTE NORTH INC. - OH	652	170,001	69,176	7,504,841	1,690,002	1,048,636	10,243,478
300630	88 CENTEL OF OHIO	61	14,525	5,596	747,942	171,669	109,884	1,029,495
300661	88 UTC OF OHIO	460	112,660	49,012	4,353,124	909,831	615,865	5,878,820
305062	88 CINCINNATI BELL-OH	671	42,178	86,814	12,806,910	498,470	1,531,730	14,837,109
305150	88 OHIO BELL TEL CO	3,378	357,743	241,022	53,050,399	4,843,797	7,000,653	64,894,849
310695	88 GTE NORTH INC. - MI	492	168,707	49,780	4,881,664	1,644,123	696,721	7,222,508
315090	88 MICHIGAN BELL TEL CO	4,384	894,243	414,645	64,042,770	9,897,157	7,465,971	81,405,898
320772	88 GTE NORTH INC. - IN	593	112,491	100,559	6,748,137	1,172,265	1,359,097	9,279,499
320832	88 UTC OF INDIANA	183	46,721	24,075	1,530,093	443,791	291,256	2,265,140
325080	88 INDIANA BELL TEL CO	1,623	181,695	215,266	24,521,415	2,125,857	3,702,645	30,349,917
330886	88 GTE NORTH INC. - WI	349	102,156	52,386	2,919,185	924,349	539,098	4,382,631
335220	88 WISCONSIN BELL	1,725	203,303	174,092	22,930,716	2,513,236	3,487,318	28,931,270
340985	88 CENTEL OF ILLINOIS	180	29,495	38,367	2,169,396	295,199	584,461	3,049,056
341015	88 GTE NORTH INC. - IL	572	181,759	77,831	5,081,064	1,889,266	893,646	7,863,976
345070	88 ILLINOIS BELL TEL CO	5,530	334,576	756,764	79,701,519	3,873,973	13,564,754	97,140,245
351186	88 GTE NORTH INC. - IA	107	33,981	12,410	809,794	312,867	157,919	1,280,581
351317	88 UTC OF IOWA	64	17,175	7,283	490,593	164,534	103,307	758,433
355141	88 NORTHWESTERN BELL-IA	934	132,397	129,504	11,107,424	1,569,653	2,443,763	15,120,839
361186	88 GTE NORTH INC. - MN	3	982	363	20,526	9,505	4,695	34,725
361367	88 CENTEL OF MN	78	12,967	9,188	875,037	132,935	143,636	1,151,608
361456	88 UTC OF MINNESOTA	107	19,276	8,873	1,085,235	196,401	126,910	1,408,545
365142	88 NORTHWESTERN BELL-MN	1,785	155,704	232,036	25,903,177	1,997,473	4,189,741	32,090,391
371186	88 GTE NORTH INC. - NE	45	11,518	7,459	356,599	109,325	69,786	535,710
371568	88 LINCOLN TEL & TEL CO	237	41,220	33,390	2,306,845	441,263	497,899	3,246,007
371595	88 UTC OF THE WEST-NE	24	2,466	3,862	243,016	26,890	58,011	327,917
375143	88 NORTHWESTERN BELL-NE	467	45,465	86,946	6,331,689	544,096	1,650,281	8,526,067
385144	88 NORTHWESTERN BELL-ND	265	36,872	41,793	2,912,437	402,863	620,668	3,935,968
395145	88 NORTHWESTERN BELL-SD	265	36,562	41,453	2,596,931	424,176	696,759	3,717,866
401728	88 UTC OF ARKANSAS	17	4,387	2,363	132,655	35,020	35,626	203,301
402080	88 GTE SOUTHWEST INC-AR	64	17,046	10,390	690,485	158,717	136,060	985,262
405211	88 SOUTHWESTERN BELL-AR	717	128,261	121,899	10,005,416	1,340,615	1,505,663	12,851,693
411842	88 UTC OF KANSAS	70	17,469	8,860	465,150	163,470	160,698	789,319
415214	88 SOUTHWESTERN BELL-KS	1,065	136,602	157,327	13,247,612	1,579,679	2,425,209	17,252,499
421186	88 GTE NORTH INC. - MO	90	24,232	11,764	917,533	276,213	239,559	1,433,306
421957	88 UTC OF MISSOURI	180	46,952	22,863	1,377,874	506,564	345,736	2,230,175
425213	88 SOUTHWESTERN BELL-MO	2,029	199,252	270,386	33,544,178	2,227,058	4,439,217	40,210,454
432080	88 GTE SOUTHWEST INC-OK	104	25,080	14,344	951,809	268,454	222,886	1,443,149
435215	88 SOUTHWESTERN BELL-OK	1,316	207,604	156,893	16,608,881	2,198,245	2,736,602	21,543,729
442080	88 GTE SOUTHWEST INC-TX	1,124	254,341	131,909	12,190,081	2,784,455	1,954,387	16,928,924
442084	88 UTC OF TEXAS INC	103	37,492	6,172	858,521	374,217	107,755	1,340,493
442114	88 CENTEL OF TEXAS	127	27,063	16,784	1,595,153	261,480	313,692	2,170,325
442154	88 CONTEL OF TEXAS	153	58,773	10,780	1,209,234	588,054	199,061	1,996,349
445216	88 SOUTHWESTERN BELL-TX	6,761	866,534	676,135	104,555,150	11,547,837	11,863,044	127,966,032
455101	88 MOUNTAIN BELL - AZ	1,784	127,470	250,456	25,503,364	1,576,251	5,351,115	32,430,731

TABLE 4.11

 1988 TIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS,MSG & SLU (IN THOUSANDS)

FCODE	YR CARRIER	NO.LOOPS	ST MSGS	IS MSGS	LOC SLU	ST SLU	IS SLU	TOT SLU
465102	88 MOUNTAIN BELL-CO	1,834	179,550	273,736	25,496,926	1,986,458	5,586,983	33,070,367
472416	88 GTE NORTHWEST INC-ID	70	11,162	20,291	675,467	114,464	232,022	1,021,953
475103	88 MOUNTAIN BELL-ID	338	51,627	54,384	3,695,718	522,743	878,676	5,097,138
475162	88 PACIFIC NW BELL-ID	24	3,322	4,507	302,434	40,956	70,677	414,067
482416	88 GTE NORTHWEST INC-MT	6	931	1,009	53,990	9,762	15,076	78,827
485104	88 MOUNTAIN BELL-MT	309	56,238	49,080	3,206,632	659,541	790,916	4,657,089
492080	88 GTE SOUTHWEST INC-NM	39	4,929	7,151	381,367	52,436	98,735	532,539
495105	88 MOUNTAIN BELL-NM	574	62,299	92,419	8,155,609	685,324	1,528,592	10,369,526
505107	88 MOUNTAIN BELL-UT	714	82,760	96,677	10,953,370	879,267	1,888,902	13,721,539
511595	88 UTC OF THE WEST-WY	6	702	1,236	47,675	7,883	17,509	73,067
515108	88 MOUNTAIN BELL-WY	226	28,673	45,877	2,084,072	317,974	694,894	3,096,940
522400	88 UTC OF THE NW-WA	53	19,136	5,969	333,244	164,013	80,272	577,530
522416	88 GTE NORTHWEST INC-WA	491	118,777	77,958	6,135,966	1,202,264	1,032,268	8,370,497
525161	88 PACIFIC NW BELL-WA	1,867	287,149	219,889	22,772,088	3,198,407	4,177,261	30,147,756
532400	88 UTC OF THE NW - OR	49	14,858	6,150	341,855	135,012	91,439	568,306
532416	88 GTE NORTHWEST INC-OR	272	54,448	56,710	2,924,757	499,413	632,279	4,056,449
535163	88 PACIFIC NW BELL-OR	1,024	159,620	141,513	11,690,042	1,758,309	2,482,299	15,930,650
542302	88 CONTEL OF CALIFORNIA	261	104,415	24,126	2,065,983	1,021,023	382,122	3,469,127
542319	88 GTC OF CALIFORNIA	3,342	1,452,770	559,004	32,124,937	12,298,500	5,266,542	49,689,979
542344	88 WEST COAST TEL OF CA	9	2,605	1,458	73,058	26,803	15,380	115,242
545170	88 PACIFIC BELL	13,580	4,588,887	1,235,332	145,080,500	40,991,880	17,407,036	203,479,416
552348	88 CENTEL OF NV	399	9,636	105,601	5,311,634	126,250	1,665,197	7,103,081
555173	88 NEVADA BELL	215	17,783	54,793	2,124,296	250,549	710,120	3,084,965
565010	88 DIAMOND STATE TEL	417	25,149	94,461	5,404,596	260,627	1,435,371	7,100,595
575020	88 C & P TEL CO OF WASH	908	0	103,399	13,550,286	0	2,239,449	15,789,735
585114	88 NEW ENGLAND TEL - RI	551	66,297	114,806	6,619,689	532,007	1,535,266	8,686,962
623100	88 GTE HAWAIIAN TEL. CO	585	35,857	76,728	8,174,883	368,099	1,451,925	9,994,907
633201	88 PUERTO RICO TEL CO	765	178,878	48,946	8,475,530	1,776,331	1,169,031	11,420,892
116	TIER 1 CO's TOTALS	128,333	23,257,563	18,172,781	1,715,395,765	233,447,100	284,680,842	2,233,523,719

TABLE 4.12

 1987 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS, MSG'S AND SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
100003	87	LINCOLNVILLE TEL CO	1	279	99	5,907	2,461	2,062	10,430
100004	87	CHINA TEL CORP	2	962	146	7,752	7,957	2,689	18,398
100010	87	HAMPDEN TEL CO	2	524	170	17,828	7,104	3,044	27,976
100011	87	HARTLAND & ST ALBANS	2	723	154	12,311	6,185	2,473	20,969
100014	87	CONTEL OF MAINE	36	10,223	3,783	216,890	89,069	57,917	363,876
100024	87	SOMERSET TEL CO	8	2,235	622	38,008	20,871	11,265	70,144
100025	87	STANDISH TEL CO	5	1,899	449	20,906	17,011	8,532	46,449
100027	87	UNION RIVER TEL CO	1	185	37	2,639	1,644	770	5,054
100029	87	UNITY TEL CO., INC.	3	1,093	217	16,769	8,509	3,769	29,048
100031	87	WARREN TEL CO	1	560	96	4,125	5,133	1,502	10,759
100034	87	WEST PENOBSCOT TEL	2	618	95	7,934	5,587	1,582	15,103
120038	87	BRETTON WOODS TEL CO	0	49	60	141	376	624	1,141
120039	87	GRANITE STATE TEL	6	1,574	1,054	32,180	15,258	16,043	63,481
120041	87	CONTEL OF NH	9	2,423	1,808	48,849	18,417	23,996	91,262
120045	87	KEARSARGE TEL CO	5	1,873	1,003	19,927	15,157	12,727	47,810
120046	87	MERIDEN TEL CO	0	94	111	1,623	829	1,514	3,967
120047	87	MERRIMAK COUNTY TEL	6	1,643	794	45,695	18,962	14,472	79,129
120049	87	UNION TEL CO	5	1,104	567	11,729	9,168	8,330	29,227
120050	87	WILTON TEL CO - NH	2	666	436	13,323	6,206	5,835	25,364
140058	87	LUDLOW TEL CO	3	720	559	11,190	5,501	6,205	22,896
140061	87	NORTHFIELD TEL CO	2	718	501	14,329	6,185	7,667	28,182
140062	87	PERKINSVILLE TEL CO	1	225	119	2,303	2,199	1,724	6,225
140068	87	TOPSHAM TEL CO	1	193	125	5,919	2,133	2,150	10,201
140069	87	WAITSFIELD/FAYSTON	4	758	734	19,259	6,107	9,533	34,900
140070	87	CONTEL OF VERMONT	30	7,345	5,545	179,724	63,902	75,837	319,463
150071	87	ARMSTRONG TEL CO-NY	3	774	271	16,321	7,201	4,207	27,729
150072	87	AU SABLE VALLEY TEL	5	269	347	26,287	4,159	6,622	37,067
150073	*	BERKSHIRE TEL CORP	4	877	384	33,127	9,008	6,252	48,387
150077	87	CHAMPLAIN TEL CO	4	1,278	1,248	29,403	9,947	8,997	48,348
150078	87	CHAUTAUQUA & ERIE	9	1,928	1,272	62,290	18,893	16,406	97,590
150079	*	CHAZY & WESTPORT	3	492	215	18,565	5,048	3,504	27,117
150081	87	CITIZENS HAMMOND NY	1	327	54	4,298	3,025	1,123	8,446
150082	87	CLYMER TEL CO	1	51	55	1,518	484	638	2,640
150084	87	TACONIC TEL CORP	17	4,546	2,486	106,361	52,559	31,842	190,762
150085	87	CROWN POINT TEL CORP	1	242	65	4,107	2,225	1,062	7,394
150088	*	DELHI TEL CO	3	537	235	20,276	5,514	3,827	29,616
150091	87	DUNKIRK & FREDONIA	8	1,205	503	80,336	18,528	8,001	106,865
150092	87	EDWARDS TEL CO	1	629	73	9,412	6,253	1,337	17,002
150093	87	EMPIRE TEL CORP	6	2,166	514	26,769	20,101	8,264	55,134
150097	87	GERMANTOWN TEL CO	2	726	156	11,006	7,191	2,913	21,110
150099	87	HANCOCK TEL CO	1	379	187	7,846	3,100	2,436	13,383
150100	87	HIGHLAND TEL CO	47	21,272	8,619	439,682	227,982	150,113	817,776
150104	*	MARGARETVILLE TEL CO	2	351	153	13,237	3,600	2,498	19,334
150105	87	MIDDLEBURGH TEL CO	4	107	33	25,029	16,676	4,858	46,563
150106	87	ALLTEL NY-FULTON	36	1,439	725	125,729	16,822	13,313	155,863
150107	*	NEWPORT TEL CO	2	299	131	11,307	3,075	2,134	16,516

TABLE 4.12

 1987 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS, MSG'S AND SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO.LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
150108	87	NICHOLVILLE TEL CO	1	595	92	11,085	5,253	2,273	18,611
150109	87	ALLTEL NY-JAMESTOWN	39	1,372	1,451	111,165	14,812	20,835	146,811
150110	87	OGDEN TEL CO	16	1,657	913	218,425	23,874	18,184	260,483
150111	*	ONEIDA COUNTY RURAL	3	415	182	15,659	4,258	2,955	22,872
150113	87	ALLTEL NY-RED JACKET	2	664	117	4,723	1,865	561	7,149
150118	*	PORT BYRON TEL CO	3	262	115	9,898	2,692	1,868	14,458
150119	87	RED HOOK TEL CO	11	3,460	1,137	95,328	44,544	21,524	161,397
150122	87	SENECA-GORHAM TEL	7	3,061	413	41,243	30,874	8,183	80,301
150128	87	SYLVAN LAKE TEL CO	13	2,901	1,501	156,317	53,274	33,461	243,052
150133	87	VERNON TEL CO	2	541	127	16,682	5,937	2,580	25,199
150135	87	WARWICK VALLEY-NY	10	2,540	2,025	69,254	39,774	27,502	136,530
150136	87	WESTERN COUNTIES TEL	18	5,927	2,051	144,796	65,556	31,284	241,636
160135	87	WARWICK VALLEY-NJ	7	3,622	880	32,328	42,865	16,032	91,224
170170	87	CONTEL OF PA	47	10,288	4,438	453,469	117,888	71,878	643,234
170177	87	LACKAWAXEN TEL CO	2	487	334	5,777	3,767	4,955	14,500
170189	87	ARMSTRONG TEL CO-PA	1	685	120	9,159	7,424	2,226	18,809
170192	87	NORTH PENN TEL CO	4	834	736	23,373	8,283	8,731	40,388
170194	87	OSWAYO RIVER TEL CO	2	255	301	11,211	2,670	4,021	17,902
170201	87	QUAKER STATE TEL CO	28	5,428	3,839	224,736	56,200	54,645	335,581
170206	87	SUGAR VALLEY TEL CO	1	226	107	4,903	2,198	1,175	8,276
170210	*	VENUS TEL CORP	1	139	61	5,257	1,430	992	7,679
180216	87	ARMSTRONG TEL OF MD	4	1,430	888	23,038	13,951	10,897	47,887
190217	87	AMELIA TEL CORP	2	845	179	27,098	8,665	3,382	39,145
190249	87	ROANOKE & BOTETOURT	6	1,294	847	73,399	16,274	9,922	99,594
200259	87	HARDY TEL CO	2	127	209	18,773	1,440	2,975	23,187
200270	87	MOUNTAIN STATE TEL	15	3,695	1,741	230,182	39,280	29,430	298,892
200278	87	CONTEL OF WV	22	5,445	2,942	275,753	54,317	43,402	373,473
210291	87	FLORALA TEL CO	3	184	128	13,925	2,248	1,925	18,098
210318	87	SOUTHLAND TEL-FL	3	205	214	35,242	3,138	4,044	42,423
210329	87	GULF TEL CO	7	1,304	649	83,442	13,157	10,960	107,559
210330	87	VISTA-UNITED TELCOM	9	1,091	2,433	48,411	18,247	58,713	125,371
210331	87	INDIANTOWN SYSTEM	2	959	201	10,278	9,319	3,854	23,451
210335	87	NORTHEAST FLORIDA	5	1,203	372	44,224	12,535	6,518	63,278
210336	87	ALLTEL FLORIDA INC.	46	11,144	3,957	428,843	117,822	66,297	612,962
210338	87	QUINCY TEL CO-FL DIV	8	1,940	852	112,888	22,726	11,495	147,109
210339	87	ST JOSEPH TEL & TEL	21	4,129	1,997	166,545	40,821	30,492	237,859
220281	87	CONTEL OF SOUTH - GA	60	9,853	2,986	504,557	129,836	68,592	702,985
220324	87	VALLEY TEL CO - GA	4	384	407	58,841	3,792	4,912	67,545
220338	87	QUINCY TEL CO-GA DIV	1	71	119	9,773	949	1,698	12,421
220344	87	ALMA TEL CO	5	1,158	336	57,020	11,287	5,278	73,584
220347	87	BRANTLEY TEL CO	3	776	198	28,726	7,520	3,399	39,645
220351	87	CAMDEN TEL & TEL CO	9	1,167	2,339	91,629	12,707	30,742	135,078
220355	87	CITIZENS TEL CO - GA	4	991	241	44,668	9,320	4,307	58,295
220356	87	COASTAL UTILITIES	20	4,077	3,694	173,638	44,284	71,076	288,999
220358	87	DARIEN TEL CO	3	812	304	29,999	7,787	5,030	42,815
220360	87	ELLIJAY TEL CO	6	1,366	377	64,866	12,123	5,110	82,099

TABLE 4.12

1987 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS, MSG'S AND SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
220371	87	INTERSTATE TEL CO	10	1,077	1,145	158,138	12,523	15,340	186,001
220377	87	PINELAND TEL COOP	8	1,863	414	92,460	19,197	8,033	119,689
220379	87	PLANT TEL. CO.	7	1,890	467	71,037	18,080	7,577	96,694
220381	87	PUBLIC SERVICE TEL	7	1,952	371	86,944	19,910	7,590	114,444
220386	87	STANDARD TEL CO	32	10,005	3,269	362,108	97,886	45,401	505,394
220392	87	WAVERLY HALL TEL CO	1	262	55	6,456	2,709	977	10,142
220394	87	WILKES TEL & ELC CO	9	1,493	639	97,571	18,210	11,566	127,348
230468	87	ATLANTIC MEMBERSHIP	18	2,569	1,572	145,947	27,159	22,379	195,486
230469	87	BARNARDSVILLE TEL CO	1	246	45	7,206	2,330	681	10,218
230473	87	CITIZENS TEL CO	13	1,784	1,364	145,117	18,846	23,838	187,801
230474	87	CONCORD TEL CO	73	12,246	4,636	858,581	107,655	90,164	1,056,400
230476	87	ALLTEL CAROLINA-NO	87	16,465	8,721	1,065,995	187,139	151,314	1,404,448
230481	87	HEINS TEL CO	23	4,391	1,906	280,641	46,938	32,567	360,147
230502	87	STAR MEMBERSHIP CORP	12	2,648	450	141,042	27,649	12,290	180,981
230509	87	CONTEL OF NC	76	11,064	6,417	920,035	144,511	152,147	1,216,694
230510	87	WILKES MEMBERSHIP	7	807	230	107,253	9,421	4,617	121,291
240512	87	BLUFFTON TEL. CO.	3	842	498	9,076	6,954	5,994	22,024
240520	87	FARMERS TEL COOP	34	5,850	3,353	518,953	58,156	66,394	643,503
240523	87	HARGRAY TEL CO	31	2,757	8,431	179,058	32,335	107,917	319,310
240526	87	CONTEL OF SC	13	1,853	1,082	188,147	21,328	25,505	234,980
240528	87	HORRY TEL COOP	38	5,525	4,040	319,001	52,154	66,523	437,677
240533	87	MCCLELLANVILLE TEL	1	363	85	8,228	3,617	1,775	13,620
240539	87	POND BRANCH TEL CO	7	1,917	388	70,905	16,668	8,144	95,717
240551	87	WILLISTON TEL CO	3	855	281	34,410	8,461	4,372	47,243
250281	87	CONTEL OF THE SOUTH	76	15,009	5,414	1,046,719	189,268	111,551	1,347,538
250284	87	BUTLER TEL CO	3	571	522	45,670	6,725	6,477	58,871
250295	*	GRACEBA TOTAL COMM	3	707	310	26,700	7,261	5,039	39,000
250297	87	GROVE HILL TEL CORP	2	557	117	17,624	5,426	2,183	25,234
250298	87	GULF TEL CO - AL	23	3,280	3,449	185,791	33,119	45,792	264,702
250300	87	HOPPER TEL. CO INC	3	807	121	24,832	7,271	2,182	34,285
250304	87	MILLRY TEL CO	5	959	473	50,127	9,275	6,210	65,612
250306	87	MONROEVILLE TEL CO	9	1,581	909	122,057	18,000	18,694	158,751
250314	87	PEOPLES TEL CO	10	1,726	907	116,219	16,450	12,298	144,966
250315	*	PINE BELT TEL CO	2	243	106	9,160	2,491	1,729	13,380
250316	87	RAGLAND TEL CO	1	273	46	9,062	2,796	857	12,714
250318	87	SOUTHLAND TEL CO-AL	9	531	898	136,178	18,765	16,962	171,905
250461	87	SOUTHEAST MS TELCO	2	392	190	9,736	3,457	2,631	15,824
260410	87	CONTEL OF KENTUCKY	56	9,914	3,643	791,299	100,413	93,920	985,632
270422	87	ATHENS TEL CO	0	127	18	1,866	1,102	403	3,372
270423	87	CENTRAL LOUISIANA	13	3,284	853	155,467	28,729	17,105	201,301
270424	87	COASTAL TEL & ELECTR	9	3,123	590	98,224	24,834	9,941	132,999
270425	87	CAMERON TEL CO - LA	6	1,500	590	53,188	15,172	8,381	76,741
270427	*	CHATHAM TEL CO	1	132	58	4,968	1,351	938	7,256
270429	87	EAST ASCENSION TEL	21	6,038	1,971	282,371	51,596	28,517	362,484
270430	87	ELIZABETH TEL CO	2	455	108	25,189	5,441	2,645	33,275
270431	87	CADDOAN TEL CO	8	1,673	998	80,009	15,845	14,593	110,447

TABLE 4.12

1987 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS, MSG'S AND SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO.LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
270433	87	LAFOURCHE TEL CO	11	2,737	1,099	113,606	19,411	9,657	142,674
270434	87	EVANGELINE TEL CO	25	7,153	1,632	299,916	66,480	31,022	397,418
270435	87	NORTHEAST LOUISIANA	1	306	68	7,564	3,120	1,357	12,041
270436	87	CENTURY NORTH LA	1	286	97	8,432	2,440	1,717	12,589
270437	87	PLAIN DEALING TEL CO	1	423	137	18,047	3,553	2,567	24,166
270439	*	RINGGOLD TEL CO	1	214	93	8,064	2,193	1,522	11,779
270440	87	CENTURY TEL CO	1	635	129	20,901	6,204	2,579	29,684
270442	87	LOUISIANA WESTERN	3	973	269	32,575	9,442	5,346	47,363
270443	87	UTC OF LUISIANA	2	742	267	28,233	6,684	4,086	39,003
280446	87	BAY SPRINGS TEL CO	8	1,740	507	107,176	16,781	9,714	133,671
280451	*	DECATUR TEL CO -MS	1	184	81	6,959	1,892	1,313	10,165
280452	87	DELTA TEL CO	3	507	203	30,516	4,581	3,429	38,526
280454	87	FRANKLIN TEL CO - MS	6	1,122	410	70,214	10,565	8,490	89,269
280458	87	HOME TEL CO-OLIVE BR	7	695	1,811	97,655	8,379	24,659	130,693
280459	87	HUGHES TEL CO	5	513	285	70,524	5,302	7,315	83,142
280464	87	NOXAPATER TEL CO	1	117	39	14,005	1,281	1,173	16,459
280466	*	SLEDGE TEL CO	0	85	37	3,206	872	605	4,682
290552	87	ADAMSVILLE TEL CO	6	580	526	79,081	6,852	7,539	93,473
290571	87	MILLINGTON TEL CO	16	1,368	2,586	258,975	19,025	47,148	325,148
290575	87	TENNESSEE TEL CO	33	4,411	3,614	518,962	44,558	48,457	611,977
290579	87	TWIN LAKES TEL COOP	23	3,279	1,466	290,489	32,296	25,908	348,692
300597	87	THE CHILLICOTHE TEL	25	3,954	1,228	339,851	52,025	29,896	421,772
300607	87	CONTEL OF OHIO	2	459	106	16,346	4,046	1,680	22,072
300613	87	FAYETTEVILLE TEL CO	1	306	58	9,604	2,997	1,048	13,649
300649	*	ORWELL TEL CO	5	793	347	29,952	8,145	5,653	43,749
300665	87	ALLTEL OHIO-WEST OH	18	5,099	1,231	143,921	50,235	20,223	214,379
300682	87	C, C & S TELCO -OHIO	0	117	51	2,147	1,119	768	4,034
310678	*	BLANCHARD TEL ASSN	1	81	35	3,057	831	577	4,465
310679	87	BLOOMINGDALE TEL CO	1	689	83	5,443	6,070	1,526	13,040
310680	87	CHIPPEWA COUNTY TEL	1	243	37	2,799	2,094	781	5,674
310681	87	ALLTEL MICHIGAN INC.	37	13,552	3,980	294,332	134,720	56,281	485,332
310682	87	C, C & S TELCO - MI	17	4,242	1,252	120,841	45,983	21,500	188,324
310683	87	CARR TEL CO	1	303	34	3,183	3,209	803	7,195
310685	87	CHATHAM TEL CO - MI	2	525	110	15,607	4,733	2,118	22,458
310687	87	CLAYTON TEL CO	1	286	42	1,781	2,754	649	5,185
310699	87	HICKORY TEL CO	1	185	79	13,571	2,651	1,562	17,785
310702	87	CENTURY OF MICHIGAN	39	13,369	2,314	213,775	135,698	38,807	388,280
310704	87	ACE TEL OF MICHIGAN	3	1,101	99	9,193	10,068	1,774	21,035
310711	87	MIDWAY TEL CO	1	168	44	3,832	1,740	811	6,382
310713	87	HIAWATHA TEL CO	3	223	709	19,215	7,270	3,842	30,327
310717	87	ONTONAGON COUNTY TEL	4	549	294	29,645	5,729	4,866	40,240
310721	87	PIGEON TEL CO	3	1,116	129	12,157	10,427	2,019	24,602
310728	87	SPRINGPORT TEL CO	2	651	47	6,894	5,818	1,016	13,728
310732	87	UPPER PENINSULA TEL	3	1,130	321	16,485	11,141	5,564	33,190
310734	*	WALDRON TEL CO	1	130	57	4,895	1,331	924	7,151
310735	*	WESTPHALIA TEL CO	1	34	15	1,287	350	243	1,880

TABLE 4.12

1987 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS, MSG'S AND SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
310738	87	WOLVERINE TEL CO	7	2,575	249	60,682	27,351	5,540	93,573
320753	87	CLAY CTY RURAL COOP	8	1,989	455	78,827	19,027	6,522	104,376
320762	87	ELNORA TEL CO	0	85	20	3,213	825	313	4,351
320778	87	HOME TEL CO INC	2	342	77	17,956	3,751	1,429	23,136
320779	87	CONTEL OF INDIANA	135	26,681	15,906	1,337,823	282,716	219,729	1,840,268
320797	87	NEW PARIS TEL INC	2	368	155	13,630	3,249	2,373	19,251
320800	87	NORTHWESTERN INDIANA	7	2,666	967	69,705	26,385	14,570	110,659
320807	*	PERRY-SPENCER RURAL	4	517	227	19,538	5,313	3,687	28,538
320813	*	PULASKI-WHITE RURAL	2	190	83	7,162	1,948	1,352	10,461
320830	*	TRI-COUNTY TEL CO	3	419	183	15,817	4,301	2,985	23,104
320839	*	YEOMAN TEL CO, INC	1	115	50	4,350	1,183	821	6,354
330841	87	CENCOM OF WISCONSIN	21	4,032	1,397	140,476	42,254	20,843	203,573
330842	*	AMERY TEL CO	5	1,284	562	48,499	13,189	9,153	70,841
330843	*	AMHERST TEL CO	3	434	190	16,402	4,460	3,095	23,958
330844	87	BADGER TELECOM, INC.	4	808	211	35,661	7,926	3,607	47,194
330851	87	BONDUEL TEL CO	1	344	71	11,660	3,166	1,236	16,062
330855	*	BRUCE TEL CO, INC	1	253	111	9,540	2,594	1,800	13,935
330856	87	BURLINGTON B&W	3	841	362	14,373	7,944	5,583	27,900
330857	*	CASCO TEL CO	1	70	31	2,660	723	502	3,885
330858	*	LAKESHORE TEL CO	1	107	47	4,026	1,095	760	5,881
330859	87	CENTRAL STATE TEL CO	7	1,723	359	48,244	16,436	6,488	71,167
330860	87	CHEQUAMEGON TEL COOP	6	956	439	21,900	8,557	7,087	37,544
330861	*	CHIBARDUM TEL COOP	4	671	294	25,344	6,892	4,783	37,019
330870	87	CRANDON TEL CO	2	411	90	14,262	4,421	1,886	20,570
330876	87	DODGE COUNTY TEL CO	1	217	25	7,092	2,131	578	9,800
330882	87	FENNIMORE TEL CO	2	422	123	12,122	4,236	1,694	18,052
330883	87	FOOTVILLE TEL CO	1	123	48	9,204	1,314	740	11,258
330888	87	GREENWOOD TEL CO	1	205	53	10,660	2,288	1,106	14,055
330889	*	HAGER CITY TEL CO	2	387	169	14,604	3,971	2,756	21,332
330891	87	HEADWATERS TEL CO	3	516	163	13,022	5,203	3,729	21,954
330892	*	HILLSBORO TEL CO	1	159	70	6,010	1,634	1,134	8,779
330895	87	CENTURY OF WISCONSIN	44	5,358	5,030	443,708	65,152	87,481	596,341
330898	87	LARSEN-READFIELD TEL	2	545	73	13,817	4,939	1,117	19,874
330900	*	LEMONWEIR VALLEY TEL	2	509	223	19,223	5,227	3,628	28,078
330905	*	MANAWA TEL CO	2	196	86	7,413	2,016	1,399	10,828
330908	87	MARQUETTE-ADAMS COOP	3	639	299	11,960	5,927	6,672	24,560
330909	87	MIDWAY TEL CO	6	1,367	617	52,178	12,246	5,937	70,361
330910	*	MILLTOWN MUTUAL TEL	2	449	196	16,948	4,609	3,198	24,756
330913	87	MONROE COUNTY TEL CO	9	1,759	898	67,783	17,347	14,672	99,802
330914	87	MOSEL & CENTERVILLE	3	634	215	28,182	6,081	2,956	37,220
330916	87	MOUNT HOREB TEL CO	3	405	176	27,002	4,567	3,013	34,582
330917	87	MT VERNON TEL CO	5	884	397	51,710	10,253	6,742	68,705
330920	*	NIAGARA TEL CO	3	1,613	706	60,913	16,564	11,496	88,973
330922	87	NORTH-WEST TEL CO	53	11,550	4,196	451,411	117,933	74,963	644,307
330925	*	BAYLAND TEL CO	1	163	71	6,144	1,671	1,160	8,975
330931	87	PEOPLES TEL CO	5	1,393	291	38,305	13,101	4,471	55,876

TABLE 4.12

1987 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS, MSG'S AND SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO.LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
330934	+	PLATTEVILLE TEL CO	8	1,147	666	46,841	14,729	9,827	71,397
330936	87	INDIANHEAD TEL CO	2	391	100	8,064	3,921	2,077	14,063
330937	+	PRICE COUNTY TEL CO	3	699	305	25,168	7,343	4,664	37,175
330940	87	RHINELANDER TEL CO	9	1,858	769	85,389	20,084	14,080	119,553
330941	*	RIB LAKE TEL CO	1	116	51	4,381	1,191	827	6,399
330943	87	ROCK RIVER TEL CO	1	403	140	11,743	3,688	1,894	17,325
330945	87	SCANDINAVIA TEL CO	2	529	144	11,104	5,163	1,928	18,196
330948	*	SHELL LAKE TEL CO	2	336	147	12,673	3,446	2,392	18,510
330949	*	SIREN TEL CO, INC	2	374	164	14,113	3,838	2,663	20,614
330950	87	SOLOM SPRINGS TEL CO	14	2,313	1,522	77,178	23,004	21,089	121,271
330952	87	SE TEL OF WISCONSIN	5	1,472	380	45,408	14,865	7,984	68,257
330954	87	STOCKBRIDGE & SHERWD	2	592	78	16,757	5,572	1,569	23,898
330956	87	UNIVERSAL OF N WISC	10	2,134	695	59,884	21,534	12,199	93,617
330959	*	THORP TEL CO	2	284	124	10,722	2,916	2,023	15,661
330961	*	TURTLE LAKE TEL CO	1	179	79	6,774	1,842	1,278	9,894
330963	87	UTELCO, INC	13	2,030	1,067	88,195	21,246	19,014	128,455
330964	87	URBAN TEL CORP	17	3,654	877	148,833	36,743	15,942	201,519
330965	87	VALDERS TEL CO	2	487	68	15,194	4,710	1,270	21,174
330967	*	VIROQUA TEL CO	3	472	207	17,836	4,850	3,366	26,053
330973	*	WITTENBERG TEL CO	2	179	78	6,752	1,836	1,274	9,862
330974	87	WOOD COUNTY TEL CO	21	3,085	1,332	193,659	30,315	21,568	245,542
341000	87	ALLTEL ILLINOIS INC.	39	9,749	4,602	331,800	102,255	82,032	516,087
341003	*	EGYPTIAN COOP ASSN	2	356	156	13,430	3,652	2,534	19,616
341004	87	EL PASO TEL CO	2	596	129	9,850	5,440	1,733	17,024
341009	*	C-R TEL CO	1	110	48	4,165	1,133	786	6,084
341011	87	LAKESIDE TEL CO	1	221	57	5,151	2,326	639	8,115
341023	87	GRIDLEY TEL CO	1	546	141	5,214	5,165	1,546	11,925
341036	87	CONTEL OF ILLINOIS	159	47,105	14,199	1,165,987	526,852	258,011	1,950,850
341037	87	IL CONSOLIDATED TEL	75	34,153	8,024	648,381	224,051	103,332	975,765
341038	87	INLAND TEL CO	4	1,860	195	21,060	18,886	4,005	43,952
341045	87	LEAF RIVER VLY TEL	1	229	24	2,262	2,170	467	4,899
341055	87	MIDLAND TEL CO	4	1,562	220	22,905	16,520	3,646	43,071
341060	87	MOULTRIE INDEPENDENT	1	238	22	4,283	2,333	532	7,149
341073	87	PRAIRIE TEL CO	1	294	46	6,234	2,983	878	10,096
351105	87	AYRSHIRE FARMERS MUT	0	155	18	1,442	1,309	317	3,068
351110	87	BERNARD TEL CO INC	0	179	29	3,829	1,572	553	5,954
351113	*	BROOKLYN MUTUAL TEL	1	175	77	6,613	1,798	1,248	9,659
351153	*	DUNKERTON TEL COOP	1	106	46	4,006	1,089	756	5,851
351207	87	CONTEL OF IOWA, INC.	70	17,817	4,820	566,607	178,063	74,617	819,286
351214	*	KALONA COOP TEL CO	1	313	137	11,802	3,209	2,227	17,238
351229	87	LOST NATION-ELWOOD	1	193	30	5,466	1,711	637	7,814
351316	87	UNITED FARMERS TEL	1	6	238	2,787	21	4,172	6,980
351327	87	WEBB-DICKENS TEL	0	196	27	1,559	1,854	579	3,992
351329	*	WELLMAN COOP TEL	1	168	74	6,358	1,729	1,200	9,286
351346	87	ACE TEL ASSN-IA	4	781	325	28,398	8,104	4,523	41,025
351888	87	GRAND RIVER MUT-IA	6	1,141	585	45,634	12,078	8,817	66,530

TABLE 4.12

 1987 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS, MSG'S AND SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO.LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
361140	87	CONTEL OF MINNESOTA	95	23,041	6,477	745,343	268,265	104,578	1,118,187
361346	87	ACE TEL ASSN-MN	9	1,638	3,328	70,552	17,253	21,748	109,554
361350	87	ARVIG TEL CO	9	1,268	373	37,964	13,357	6,638	57,959
361357	*	BLACKDUCK TEL CO	1	154	67	5,821	1,583	1,099	8,503
361362	87	BRIDGEWATER TEL CO	4	1,733	345	32,847	17,131	3,870	53,848
361370	87	CLARA CITY TEL EXCH	2	423	77	8,421	4,422	1,310	14,152
361373	*	CONSOLIDATED TEL CO	6	710	311	26,818	7,293	5,061	39,171
361374	87	ARROWHEAD COMM CORP	1	171	32	1,537	1,722	547	3,805
361379	87	DEER RIVER TEL CO	2	247	80	12,945	2,736	1,602	17,282
361383	*	EAGLE VALLEY TEL CO	1	64	28	2,404	654	454	3,512
361385	87	EAST OTTER TAIL TEL	13	1,861	691	84,568	20,509	11,606	116,683
361387	*	EMILY COOP TEL CO	1	106	46	3,985	1,084	752	5,821
361395	87	GARDEN VALLEY TEL CO	13	3,303	807	93,259	34,396	13,263	140,918
361399	*	GRANADA TEL CO	0	28	12	1,055	287	199	1,541
361401	*	HALSTAD TEL CO	2	389	170	14,684	3,993	2,771	21,448
361410	87	JOHNSON TEL CO	1	241	52	5,417	2,325	1,038	8,781
361414	87	LAKEDALE TEL CO	9	3,212	472	55,108	30,879	7,747	93,734
361425	*	MADELIA TEL CO	2	202	88	7,616	2,071	1,437	11,125
361433	87	MID STATE TEL CO	5	1,096	249	41,421	12,985	4,713	59,118
361442	87	NEW ULM TELECOM, INC	8	1,990	632	63,222	19,508	10,234	92,965
361443	87	NORMAN COUNTY TEL CO	4	522	368	31,886	5,953	5,231	43,069
361445	*	NORTHLAND TEL CO	1	87	38	3,276	891	618	4,785
361451	87	PAUL BUNYAN RURAL	5	916	230	39,453	10,755	5,754	55,962
361482	*	SHERBURNE CTY RURAL	5	680	298	25,681	6,984	4,847	37,511
361483	87	SLEEPY EYE TEL CO	5	1,460	247	35,942	15,189	3,576	54,707
361487	*	STARBUCK TEL CO	1	124	54	4,694	1,277	886	6,857
361491	+	TWIN VALLEY-ULEN TEL	3	601	192	25,839	6,542	2,983	35,364
361499	*	CROSSLAKE TEL CO	1	138	60	5,199	1,414	981	7,594
371516	87	ARAPAHOE TEL CO	1	255	79	7,137	2,523	1,306	10,967
371517	87	ARLINGTON TEL CO	1	368	89	6,028	3,580	1,290	10,898
371524	87	BLAIR TEL CO	5	1,637	712	43,891	14,248	9,018	67,157
371525	87	THREE RIVER TELCO	1	291	107	7,526	3,010	1,642	12,177
371530	*	CONSOLIDATED TELCO	1	268	117	10,105	2,748	1,907	14,760
371531	*	CLARKS TEL CO	1	118	51	4,440	1,208	838	6,486
371534	87	COZAD TEL CO	2	774	246	15,853	6,336	2,844	25,033
371536	87	CURTIS TEL CO	1	184	50	5,239	2,267	915	8,421
371537	87	DALTON TEL CO, INC	1	371	145	6,870	3,540	2,413	12,823
371540	87	DILLER TEL CO	1	289	66	5,173	2,477	906	8,557
371542	87	EASTERN NEBRASKA TEL	2	747	308	16,235	6,482	3,811	26,527
371553	*	GLENWOOD TEL MEMBER	3	377	165	14,245	3,874	2,688	20,807
371557	87	HARTMAN TEL EXCH INC	0	89	77	2,807	951	1,023	4,781
371558	87	HEMINGFORD COOP TEL	1	102	64	8,609	1,097	1,018	10,723
371561	*	HERSHEY COOP TEL CO	1	164	72	6,190	1,683	1,168	9,041
371565	*	K & M TEL CO, INC	1	98	43	3,704	1,007	699	5,411
371567	87	KEYSTONE-ARTHUR TEL	1	114	37	971	1,017	631	2,620
371574	87	NEBRASKA-CENTRAL TEL	4	832	140	22,578	8,383	2,719	33,679

TABLE 4.12

1987 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS, MSG'S AND SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
371576	*	NORTHEAST NEBRASKA	4	645	282	24,343	6,620	4,594	35,556
371577	87	GREAT PLAINS COMMUN	25	6,809	2,350	164,480	66,205	37,472	268,157
371580	87	PETERSBURG TEL CO	0	151	16	2,351	1,439	268	4,058
371581	*	PIERCE TEL CO	2	198	87	7,467	2,030	1,409	10,906
371586	87	ROCK COUNTY TEL CO	1	259	96	7,381	2,957	1,369	11,707
371587	*	RODEO TEL CO	2	381	167	14,368	3,907	2,712	20,987
371591	87	SE NEBRASKA TEL CO	4	422	502	33,181	4,758	7,512	45,451
371592	87	STANTON TEL CO, INC	1	313	126	7,960	2,777	995	11,732
371597	87	WAUNETA TEL CO	1	173	62	3,587	1,610	920	6,116
372455	87	BENKELMAN TEL CO	1	166	129	7,831	1,664	1,821	11,317
381447	87	CONTEL OF N. DAKOTA	10	1,547	535	76,739	19,322	11,804	107,864
381604	*	BEK TEL MUTUAL AID	4	616	270	23,253	6,323	4,388	33,965
381607	87	CONSOLIDATED COOP	4	754	344	38,258	8,018	6,039	52,315
381610	*	DAKOTA CENTRAL RURAL	2	425	186	16,032	4,360	3,025	23,417
381611	*	DICKEY RURAL COOP	3	554	243	20,923	5,690	3,949	30,562
381616	87	INTER-COMMUNITY TEL	1	408	87	9,124	3,710	1,716	14,549
381617	87	MIDSTATE TEL CO	2	342	149	7,875	3,368	2,468	13,711
381625	*	NORTHWEST COMM COOP	4	633	277	23,886	6,495	4,508	34,889
381630	87	POLAR COMM MUT AID	9	1,661	769	82,052	17,427	12,559	112,038
381632	87	RESERVATION TEL COOP	4	1,061	337	35,863	10,179	6,455	52,497
381634	87	SOURIS RIVER TEL MUT	12	2,334	1,228	88,639	24,555	27,816	141,010
381636	*	UNITED TEL MUTUAL	4	825	361	31,162	8,474	5,881	45,517
381637	87	W. RIVER MUTUAL AID	9	1,704	602	80,182	20,232	14,747	115,160
391643	87	CONTEL OF S. DAKOTA	8	1,295	534	53,827	15,691	13,906	83,424
391645	*	BROOKINGS-LAKE TEL	3	496	217	18,725	5,092	3,534	27,351
391647	87	CHEYENNE RIVER SIOUX	2	419	159	20,686	4,180	3,236	28,101
391659	87	GOLDEN WEST TELECOMM	12	2,371	1,377	94,168	23,054	22,131	139,354
391666	87	JEFFERSON TEL CO -SD	0	77	146	1,859	628	1,741	4,229
391667	87	KADOKA TELEPHONE CO	1	108	99	2,696	1,014	943	4,652
391668	87	KENNEBEC TEL CO	0	95	28	1,299	916	363	2,579
391669	*	MCCOOK COOP TEL CO	1	122	53	4,597	1,250	867	6,714
391670	*	MIDSTATE TEL COMPANY	2	443	194	16,738	4,552	3,159	24,449
391676	*	SANBORN TEL COOP	2	360	157	13,586	3,694	2,564	19,844
391680	*	SULLY BUTTES TEL	4	796	348	30,047	8,171	5,670	43,888
391689	87	WEST RIVER COOP	2	255	181	16,159	3,102	2,678	21,939
401691	87	ALLTEL ARKANSAS INC	57	16,277	7,045	621,221	152,340	102,612	876,173
401692	87	ARKANSAS TEL CO	5	949	506	48,802	7,565	9,057	65,424
401697	87	CENTRAL ARKANSAS TEL	2	565	113	18,391	5,089	2,419	25,899
401698	87	CLEVELAND COUNTY TEL	1	663	96	15,020	6,652	2,061	23,733
401699	87	DECATUR TEL CO INC	1	315	132	3,508	2,214	1,773	7,496
401702	87	SOUTH ARKANSAS TEL	3	776	168	27,688	6,913	3,480	38,082
401705	87	LIBERTY TEL & COMM	11	2,034	1,105	104,132	18,214	20,492	142,838
401709	87	MADISON COUNTY TEL	2	597	212	22,202	5,400	4,342	31,943
401711	87	MOUNTAIN HOME TEL	14	1,448	1,657	81,396	14,529	32,265	128,190
401713	87	NORTH ARKANSAS TEL	4	1,211	483	22,992	10,086	9,497	42,575
401720	87	REDFIELD TEL CO	1	522	66	9,605	4,375	1,670	15,649

TABLE 4.12

 1987 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS, MSG'S AND SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO.LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
401722	*	E RITTER TEL CO	4	1,065	466	40,204	10,933	7,587	58,724
401724	*	SW ARKANSAS TEL COOP	4	1,106	484	41,750	11,353	7,879	60,983
401726	87	TRI-COUNTY TEL CO-AR	4	708	276	42,364	6,794	6,533	55,691
401727	87	UNION TEL CO INC	1	213	154	6,605	2,149	2,149	10,903
401729	87	WALNUT HILL TEL CO	4	950	553	30,619	10,543	8,673	49,835
401730	87	CONTEL OF ARKANSAS	63	18,412	6,915	764,812	170,744	125,403	1,060,958
401733	87	YELCOT TEL CO INC	2	566	262	22,469	5,292	4,937	32,697
401734	87	YELL COUNTY TEL CO	4	1,117	231	33,890	10,272	4,824	48,986
411741	87	ASSARIA TEL EXCHANGE	0	38	245	2,100	2,181	796	5,077
411746	87	BLUE VALLEY TEL CO	3	994	203	13,325	8,933	3,016	25,274
411761	87	CUNNINGHAM TEL CO	2	445	62	7,918	4,859	1,723	14,499
411764	87	ELKHART TEL CO INC	2	237	259	9,178	2,335	3,470	14,983
411777	*	GOLDEN BELT TEL ASSN	4	567	248	21,392	5,817	4,037	31,246
411780	*	HAVILAND TEL CO	4	519	227	19,605	5,331	3,700	28,636
411781	87	H & B COMMUNICATIONS	1	358	70	3,978	3,319	1,194	8,491
411782	87	HOME TEL CO	1	550	81	6,261	4,922	1,480	12,663
411785	87	J. B. N. TEL CO INC	2	746	143	12,065	7,389	2,961	22,415
411788	87	KANOKLA TEL ASSN-KS	2	590	215	11,446	5,894	3,149	20,489
411789	87	KANSAS STATE TEL CO	5	656	1,172	42,671	7,095	13,543	63,309
411790	87	CONTEL OF KANSAS	45	16,795	3,148	258,847	167,448	66,316	492,612
411801	87	MADISON TEL CO INC	1	200	35	4,331	1,738	753	6,821
411807	87	MOKAN DIAL INC-KS	2	711	255	10,110	6,756	3,379	20,244
411808	87	MOUNDRIDGE TEL CO	2	757	190	13,773	6,388	3,856	24,017
411814	87	PEOPLES MUTUAL TEL	1	296	172	6,131	2,675	1,834	10,641
411818	87	CRAW-KAN TEL COOP	12	3,631	1,136	73,874	33,876	17,470	125,221
411820	*	RAINBOW TEL COOP	2	306	134	11,563	3,144	2,182	16,889
411826	87	RURAL TEL SERVICE CO	7	2,236	409	40,600	21,199	7,882	69,681
411827	87	S & T TEL COOP ASSN	2	582	144	8,366	5,836	2,546	16,747
411829	*	S & A TEL CO INC	1	110	48	4,168	1,133	787	6,087
411831	87	S. CENTRAL TEL - KS	1	408	80	4,551	3,830	1,545	9,926
411833	*	SOUTHERN KANSAS TEL	3	552	242	20,845	5,668	3,934	30,447
411835	87	SUNFLOWER TEL CO	4	948	408	26,786	9,256	6,656	42,698
411839	*	TRI-COUNTY TEL ASSN	3	458	201	17,301	4,705	3,265	25,271
411840	87	TWIN VALLEY TEL INC	2	706	103	10,796	6,494	2,341	19,632
411841	87	UNITED TEL ASSN	5	1,799	459	23,436	16,300	7,268	47,005
411845	*	WAMEGO TEL CO INC	4	634	277	23,922	6,505	4,515	34,942
411847	87	THE WHEAT STATE TEL	2	794	143	9,794	7,189	2,379	19,361
411849	87	WILSON TEL CO INC	2	623	104	10,794	6,063	2,268	19,126
411852	87	ZENDA TEL COMPANY	0	104	12	1,049	1,082	218	2,349
412030	87	TOTAH TELEPHONE CO	1	447	146	4,855	4,251	2,433	11,539
421807	87	MOKAN DIAL INC-MO	1	238	51	4,108	2,178	758	7,044
421846	87	CONTINENTAL SYS. -MO	35	10,641	3,999	335,632	97,079	57,201	489,912
421859	87	BOURBEUSE TEL	2	535	75	8,823	5,400	1,740	15,963
421865	87	CITIZENS TEL CO - MO	4	1,051	254	15,268	10,761	4,677	30,706
421873	87	EASTERN MISSOURI TEL	2	934	112	13,624	8,621	2,322	24,567
421882	87	FIDELITY TEL CO	10	2,704	630	72,386	27,295	12,044	111,725

TABLE 4.12

 1987 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS, MSG'S AND SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
421885	87	ALLTEL MISSOURI	20	6,497	1,696	187,544	62,357	34,034	283,935
421886	87	GOODMAN TEL CO	1	506	159	6,784	4,392	2,771	13,947
421888	87	GRAND RIVER MUT-MO	12	2,657	932	103,794	26,844	14,057	144,695
421901	87	KINGDOM TELEPHONE CO	3	1,294	218	14,755	11,493	3,359	29,607
421904	87	MISSOURI TEL CO	16	3,422	1,119	126,304	32,584	19,825	178,713
421908	87	LE-RU TELEPHONE CO	1	269	140	5,019	2,367	2,276	9,662
421917	*	MID-MISSOURI TEL CO	3	391	171	14,782	4,020	2,790	21,592
421920	*	MILLER TEL CO - MO	1	129	57	4,886	1,329	922	7,136
421922	87	CONTEL OF MISSOURI	132	54,168	13,905	896,698	490,882	230,838	1,618,418
421929	87	HOLWAY TEL CO	1	198	43	4,351	1,735	674	6,760
421931	87	NE MISSOURI RURAL	3	807	247	25,513	7,936	4,758	38,206
421932	87	LATHROP TEL COMPANY	1	401	70	7,706	3,771	1,461	12,938
421934	87	ORCHARD FARM TEL CO	1	490	36	1,932	4,384	557	6,874
421945	*	SENECA TEL CO	2	543	238	20,514	5,579	3,871	29,964
421951	87	STOUTLAND TEL CO	1	281	40	6,477	2,611	914	10,002
421963	87	WEBSTER COUNTY TEL	5	1,269	305	34,294	11,912	5,783	51,988
421964	*	WHEELING TEL CO	0	47	21	1,787	486	337	2,610
431788	87	KANOKLA TEL ASSN-OK	1	385	159	7,292	3,844	2,252	13,388
431831	87	S. CENTRAL TEL - OK	0	118	56	2,026	1,139	813	3,978
431965	87	ALLTEL OKLAHOMA INC	11	4,703	929	77,232	45,657	17,197	140,086
431974	87	CANADIAN VALLEY TEL	1	251	40	3,587	2,580	973	7,140
431976	87	CARNEGIE TEL CO INC	2	502	94	11,055	4,931	2,006	17,992
431977	*	CENTRAL OKLAHOMA TEL	2	321	141	12,131	3,299	2,289	17,719
431979	87	CHEROKEE TEL CO	4	1,104	769	32,049	10,427	10,694	53,170
431980	87	CHICKASAW TEL CO	7	2,833	397	50,457	28,325	8,986	87,767
431981	87	CHOUTEAU TEL CO	3	844	225	15,426	8,338	3,219	26,983
431984	87	OKLAMOMA COMM SYSTEM	13	4,678	772	113,284	46,120	17,794	177,197
431985	87	CROSS TEL CO	7	2,391	492	51,036	23,940	8,558	83,533
431988	87	DOBSON TEL CO	4	1,260	356	34,506	12,165	6,052	52,723
431994	87	GRAND TEL CO INC	2	804	247	16,530	7,741	3,895	28,165
431995	87	HINTON TEL CO	3	1,124	182	21,134	10,726	3,442	35,303
432006	87	MICLOUD TEL CO	6	1,675	378	117,368	16,998	6,778	141,144
432010	87	MID-AMERICA TEL INC	1	601	74	7,697	6,026	1,489	15,212
432011	87	OKLAHOMA ALLTEL, INC	10	3,186	1,719	95,061	33,304	21,743	150,108
432013	87	OKLAHOMA TEL & TEL	2	657	121	10,335	6,418	2,299	19,052
432014	87	OKLAHOMA WESTERN TEL	3	714	161	14,008	7,657	3,563	25,228
432016	87	PANHANDLE TEL COOP	4	1,223	1,089	23,819	12,755	12,732	49,305
432018	87	PIONEER TEL COOP INC	36	13,027	2,451	282,654	121,640	41,491	445,785
432020	87	POTTAWATOMIE TEL CO	2	675	83	10,423	7,368	1,877	19,667
432030	87	TOTAH TELEPHONE CO	2	859	163	6,615	9,132	2,736	18,483
432032	87	VALLIANT TEL CO	2	492	183	15,849	4,652	2,994	23,495
432034	87	WYANDOTTE TEL CO	0	144	88	2,032	1,357	1,134	4,523
432141	*	SANTA ROSA TEL COOP	1	147	65	5,567	1,514	1,051	8,131
440425	87	CAMERON TEL CO TEXAS	1	338	47	4,378	3,009	515	7,902
442039	87	BIG BEND TEL CO INC	3	817	223	11,552	8,879	3,734	24,165
442040	87	BRAZORIA TEL CO	5	1,323	167	50,117	15,699	4,104	69,919

TABLE 4.12

1987 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS, MSG'S AND SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO.LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
442041	87	BRAZOS TEL COOP INC	1	457	29	3,012	4,829	659	8,500
442046	87	CAP ROCK TEL CO INC	2	850	82	13,745	9,144	1,697	24,585
442052	87	CENTRAL TEXAS CO-OP	3	834	86	22,230	10,184	1,733	34,147
442057	*	COLEMAN COUNTY CO-OP	2	128	56	4,851	1,319	916	7,086
442059	87	COLORADO VALLEY TEL	5	1,333	154	29,153	14,759	3,383	47,295
442060	*	COMANCHE COUNTY TEL	5	310	136	11,719	3,187	2,212	17,118
442066	87	DELL TEL. CO-OP - TX	0	143	78	2,060	1,434	1,143	4,638
442068	87	EASTEX TEL COOP INC	20	4,703	1,098	151,779	52,020	16,298	220,097
442070	87	ETEX TEL COOP INC	9	3,263	359	47,163	35,102	7,587	89,852
442071	87	FIVE AREA TEL CO-OP	1	479	129	12,071	5,368	2,211	19,651
442072	87	FORT BEND TEL CO	17	3,248	1,096	208,590	37,450	20,224	266,264
442076	87	GANADO TELEPHONE CO	1	462	31	7,968	4,827	715	13,511
442083	87	GUADALUPE VALLEY TEL	15	6,392	663	74,019	62,188	15,406	151,613
442086	87	HILL COUNTRY CO-OP	9	2,306	318	50,721	25,521	6,623	82,865
442093	87	INDUSTRY TEL CO	2	523	36	6,447	5,344	731	12,521
442097	87	KERRVILLE TEL CO	15	3,571	980	114,642	43,596	18,475	176,713
442101	87	LAKE DALLAS TEL CO	4	2,940	457	17,546	25,194	9,517	52,256
442103	87	LA WARD TEL EXCHANGE	1	342	20	2,399	3,675	563	6,638
442104	87	LAKE LIVINGSTON TEL	1	204	29	2,273	2,255	611	5,139
442109	87	LUFKIN-CONROE TEL EX	62	17,340	4,263	653,213	198,735	71,744	923,691
442112	87	MID-PLAINS RURAL TEL	2	878	108	14,151	9,243	2,073	25,466
442116	87	MUENSTER TEL CORP-TX	2	548	85	11,639	5,437	1,636	18,712
442117	87	MUSTANG TEL CO	2	1,018	251	6,897	7,580	2,674	17,150
442121	87	ALLTEL TEXAS INC	3	755	153	20,444	8,566	2,769	31,779
442129	87	PEEPLES TEL CO	1	436	33	4,071	3,804	566	8,441
442130	87	PEOPLES TEL COOP -TX	7	2,188	260	44,936	23,735	5,955	74,626
442131	87	POKA-LAMBRO RURAL	3	1,306	121	22,936	13,004	2,154	38,094
442134	87	RIVIERA TEL CO INC	1	368	32	3,606	3,345	716	7,666
442135	87	SOUTHWEST TEXAS TEL	2	686	69	10,922	7,991	1,531	20,444
442136	87	ROMAIN TELEPHONE CO	1	257	95	5,899	3,038	1,373	10,310
442141	*	SANTA ROSA TEL COOP	2	118	52	4,453	1,211	840	6,505
442143	*	SOUTH PLAINS TEL	4	362	158	13,658	3,714	2,578	19,950
442147	87	SUGAR LAND TEL CO	25	2,046	2,934	362,288	39,635	65,002	466,926
442148	87	SWEENEY-OLD OCEAN	3	1,491	143	19,186	15,681	3,689	38,556
442151	87	TAYLOR TEL CO-OP INC	5	1,574	142	41,008	18,484	4,557	64,048
442153	87	TEXAS-MIDLAND TEL	9	3,840	437	49,334	40,072	8,369	97,775
442155	87	TRI-COUNTY TEL - TX	1	269	24	4,719	3,073	473	8,264
442156	87	TRINITY VALLEY TEL	5	1,805	313	40,623	16,376	4,954	61,953
442159	87	VALLEY TEL CO-OP -TX	4	1,926	138	27,302	17,978	2,577	47,857
442160	87	VALLEY VIEW TEL CO	1	468	67	3,317	4,401	1,067	8,785
442163	87	WATERWOOD COMM INC	0	111	17	228	1,054	369	1,651
442166	87	WEST TEXAS RURAL TEL	2	722	217	14,175	7,271	3,085	24,532
442168	87	WES-TEX TEL CO-OP	3	1,001	110	28,228	11,519	2,360	42,107
442170	87	XIT RURAL TEL CO-OP	1	296	186	5,363	3,423	2,706	11,492
442262	87	ENMR TEL COOP-TX	1	127	55	6,673	1,372	821	8,866
452171	87	ARIZONA TELEPHONE CO	2	536	154	3,085	5,241	2,722	11,048

TABLE 4.12

 1987 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS, MSG'S AND SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO.LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
452172	87	CITIZENS UTILITIES	42	4,398	8,241	246,080	41,353	125,845	413,278
452175	87	UNIVERSAL TEL OF SW	1	254	98	6,600	2,423	1,586	10,609
452176	87	VALLEY TEL COOP-AZ	2	588	290	8,797	6,029	5,213	20,040
452177	87	CONTEL OF WEST-AZ	23	5,453	2,569	151,229	54,478	40,014	245,721
452275	87	NAVAJO COMMUN-AZ	7	2,370	1,947	36,031	23,838	23,526	83,396
452302	87	CONTEL CALIF - AZ	5	898	966	27,259	8,078	12,211	47,548
461835	87	SUNFLOWER TEL - CO	0	110	48	1,374	1,036	838	3,248
462181	87	BIJOU TEL COOP ASSOC	1	380	71	4,453	3,906	1,479	9,838
462182	87	BLANCA TEL CO	0	139	50	1,866	1,247	926	4,039
462184	87	DELTA COUNTY TEL CO	6	769	433	53,781	10,197	9,724	73,703
462185	87	EAGLE TELECOMMUN INC	5	1,571	580	23,273	13,621	9,634	46,528
462186	87	EASTERN SLOPE RURAL	4	1,366	371	25,005	13,199	6,572	44,777
462187	87	EL PASO COUNTY TEL	2	820	148	10,579	7,123	3,809	21,510
462188	87	FARMERS TEL CO - CO	0	103	45	1,308	838	509	2,656
462190	87	HAXTUN TEL CO	1	412	113	7,929	4,369	1,931	14,229
462192	87	BIG SANDY TELCOMM	1	229	41	3,521	2,485	1,029	7,035
462193	87	NUCLA-NATURITA TEL	1	247	119	5,473	2,735	2,435	10,643
462194	87	NUNN TEL CO	0	88	31	992	803	584	2,379
462196	87	PEETZ COOP TEL CO	0	42	31	1,248	501	514	2,263
462197	*	PHILLIPS COUNTY TEL	2	392	172	14,819	4,030	2,797	21,645
462199	87	PLAINS COOP TEL ASSN	1	489	113	8,153	4,831	1,828	14,812
462203	87	RYE TELEPHONE CO	1	368	144	7,441	3,344	2,267	13,052
462204	87	COLUMBINE TEL CO	1	185	66	2,931	2,227	1,891	7,049
462207	87	STRASBURG TEL CO	1	369	65	3,945	3,481	1,348	8,774
462208	87	UNIVERSAL TEL CO -CO	4	554	602	32,374	5,984	10,549	48,907
462209	87	WIGGINS TEL ASSOC	1	449	82	5,461	4,454	1,426	11,341
472177	87	CONTEL OF WEST-ID	12	3,045	1,289	69,325	31,050	22,755	123,130
472213	87	ALBION TEL CO INC	1	255	140	6,674	2,451	1,902	11,026
472215	87	CAMBRIDGE TEL CO	1	179	64	3,962	2,043	1,155	7,160
472218	87	CUSTER TEL COOP	1	235	149	10,216	2,643	2,841	15,700
472223	87	GEM STATE UTIL-ID	1	297	95	6,774	2,826	1,741	11,341
472225	87	CENTURY TEL OF IDAHO	2	313	364	23,083	3,617	5,837	32,537
472226	87	MIDVALE TEL EXCH INC	0	21	46	744	429	318	1,491
472231	87	PROJECT MUTUAL TEL	6	830	650	84,935	7,978	9,044	101,956
472232	87	ROCKLAND TEL CO INC	0	107	24	2,239	928	390	3,557
472233	87	RURAL TEL CO - ID	0	47	16	417	526	292	1,236
472234	87	TROY TELEPHONE CO	1	202	90	2,873	1,900	1,415	6,188
472295	87	SILVER STAR TEL- ID	0	76	37	1,467	916	644	3,028
472423	87	INLAND TEL-ID	0	87	30	916	990	456	2,362
482235	87	BLACKFOOT TEL COOP	5	1,735	464	22,949	16,546	8,602	48,097
482242	87	INTERBEL TEL COOP	1	130	91	5,961	1,192	1,715	8,869
482244	87	LINCOLN TEL CO INC	1	165	50	2,816	1,670	805	5,291
482246	87	MID-RIVERS TEL COOP	6	232	504	47,238	18,253	8,776	74,267
482247	87	NEMONT TEL COOP-MT	2	734	294	8,571	7,207	4,300	20,078
482248	87	NORTHERN TEL COOP	1	517	162	7,104	4,964	2,760	14,828
482249	87	NW TEL SYSTEMS, INC.	29	8,231	4,863	199,762	77,721	75,070	352,553

TABLE 4.12

 1987 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS, MSG'S AND SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO.LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
482250	87	PROJECT TEL CO	3	757	212	12,418	7,215	3,931	23,565
482251	87	RANGE TEL COOP-MT	3	736	360	19,244	7,570	5,433	32,247
482254	87	SOUTHERN MONTANA TEL	1	190	65	2,171	2,037	1,413	5,620
482255	87	3-RIVERS TEL COOP	8	2,168	726	45,095	22,564	12,397	80,056
482257	87	TRIANGLE TEL COOP	8	2,356	638	58,389	25,697	11,455	95,541
482258	87	VALLEY RURAL TEL	1	187	42	3,559	2,039	782	6,380
492066	87	DELL TEL CO-OP - NM	0	40	32	1,062	476	540	2,078
492176	87	VALLEY TEL COOP - NM	1	220	201	6,744	1,996	3,177	11,917
492177	87	CONTEL OF WEST - NM	26	6,335	3,137	167,947	61,241	46,893	276,082
492259	87	BACA VALLEY TEL CO	1	126	75	3,286	1,358	1,166	5,811
492262	87	ENMR TEL COOP INC-NM	9	1,406	1,357	66,558	14,491	18,768	99,817
492263	87	LA JICARITA RURAL	1	314	85	15,844	3,356	1,687	20,887
492264	87	LEACO RURAL TEL COOP	1	314	171	4,159	2,903	2,297	9,359
492268	87	WESTERN NEW MEXICO	4	1,007	843	24,695	9,919	9,584	44,198
492270	87	PENASCO VALLEY TEL	2	553	200	11,632	5,638	3,698	20,968
492272	87	ROOSEVELT CNTY RURAL	1	320	177	13,236	3,708	3,187	20,130
492274	87	UNIVERSAL TEL OF SW	3	913	307	17,700	7,754	5,487	30,941
492275	87	NAVAJO COMMUN - NM	3	1,021	604	13,536	8,028	8,713	30,278
502177	87	CONTEL THE WEST - UT	14	3,148	2,497	125,521	32,576	36,617	194,715
502275	87	NAVAJO COMMUN - UT	0	57	135	699	539	1,431	2,669
502277	87	CENTRAL UTAH TEL INC	1	185	46	7,150	2,014	894	10,058
502278	87	EMERY COUNTY FARMERS	2	724	239	26,638	6,587	2,686	35,911
502280	87	KAMAS-WOODLAND TEL	2	444	71	7,576	4,291	1,473	13,340
502283	*	SKYLINE TELECOM	1	60	26	2,283	621	431	3,335
502286	87	SOUTH CENTRAL UTAH	3	471	295	16,466	4,614	4,385	25,466
502287	87	UINTAH BASIN TEL	3	793	171	18,317	8,729	3,719	30,765
502288	87	UT-WY TELECOM	0	85	77	9,067	956	855	10,877
512251	87	RANGE TEL COOP - WY	1	292	261	10,331	3,411	3,916	17,658
512290	87	UTAH-WYOMING TELECOM	0	34	77	1,537	329	917	2,783
512291	87	DUBOIS TEL EXCHANGE	2	279	257	6,844	2,656	3,893	13,394
512294	87	MEDICINE BOW TEL CO	0	48	17	1,085	519	349	1,953
512295	87	SILVER STAR TEL-WY	1	176	213	4,634	1,273	2,616	8,524
512297	87	UNION TELEPHONE CO	3	496	687	23,183	5,142	8,631	36,956
512299	87	TEL. UTIL. OF WY.	3	472	444	14,794	4,959	7,431	27,183
522404	87	ASOTIN TEL - WA	1	68	74	8,185	934	1,274	10,393
522408	87	TEL UTIL OF WA INC	71	27,465	7,476	463,087	275,436	128,794	867,317
522410	87	COWICHE TELEPHONE CO	1	646	92	6,721	5,812	1,481	14,014
522412	87	ELLENSBURG TEL CO	14	2,918	1,501	109,213	34,514	20,605	164,332
522417	87	HAT ISLAND TEL CO	0	0	0	0	0	0	0
522419	87	HOOD CANAL TEL CO	1	265	50	1,440	2,388	926	4,754
522423	87	INLAND TEL CO -WA	1	287	121	7,998	3,171	1,863	13,031
522426	87	KALAMA TEL CO	2	704	320	7,603	5,799	2,691	16,093
522427	87	LEWIS RIVER TEL CO	2	969	392	10,803	9,093	5,540	25,435
522431	87	MASHELL TEL CO INC	2	830	123	7,214	8,188	2,241	17,643
522436	87	PENINSULA TELECOMM	4	1,261	411	29,064	14,397	8,166	51,626
522437	87	PIONEER TEL CO	1	222	59	4,002	2,276	866	7,144

TABLE 4.12

 1987 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS, MSG'S AND SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
522442	87	ST JOHN TEL CO	1	194	56	2,072	2,167	771	5,010
522446	87	TENINO TELEPHONE CO	2	993	156	10,667	8,777	2,929	22,374
522447	87	TOLEDO TELEPHONE CO	1	506	138	9,306	5,068	2,386	16,760
522449	87	CONTEL OF THE NW-WA	46	5,639	15,372	374,554	143,250	81,383	599,187
522451	87	WESTERN WAHAKIAKUM	1	222	91	5,359	2,567	1,205	9,131
522452	87	WHIDBEY TEL CO.	6	1,666	499	42,111	17,047	5,705	64,863
522453	87	YELM TELEPHONE CO	5	2,304	349	35,942	21,418	6,788	64,147
532226	87	MIDVALE TEL EXCH -OR	0	82	30	1,992	753	382	3,127
532304	87	C P NATIONAL CORP-OR	10	3,979	1,044	50,874	32,677	19,838	103,390
532359	87	BEAVER CREEK COOP	3	798	231	37,320	9,277	5,117	51,713
532361	87	TEL UTIL OF OREGON	35	12,725	3,926	239,420	122,819	64,834	427,073
532362	87	CANBY TEL ASSN	8	2,997	647	56,015	26,972	9,108	92,095
532363	87	CLEAR CREEK MUTUAL	3	689	214	31,907	7,366	4,269	43,541
532364	87	COLTON TEL CO	1	360	64	7,286	3,453	1,337	12,076
532371	87	CASCADE UTIL INC	7	1,908	264	62,083	18,764	9,325	90,172
532375	87	RTI/HALSEY TEL CO	1	463	111	2,054	4,612	2,825	9,491
532376	87	HELIX TEL CO.	0	81	19	665	847	368	1,880
532377	87	HOME TELEPHONE CO	1	132	35	2,848	1,572	545	4,965
532378	87	TRANS-CASCADES TEL	0	29	11	577	352	212	1,141
532383	87	MOLALLA TEL CO.	4	1,762	318	34,787	15,819	5,097	55,702
532385	87	MONROE TELEPHONE CO.	1	292	38	3,117	2,745	747	6,608
532387	87	NEHALEM TEL & TEL	2	460	106	5,529	4,351	1,695	11,576
532388	87	NORTH STATE TEL CO.	0	151	27	1,497	1,455	506	3,457
532389	87	OREGON TEL CORP	1	555	113	6,032	5,544	2,053	13,629
532392	87	PINE TEL SYSTEM INC.	1	127	66	4,006	1,405	1,253	6,664
532393	87	PIONEER TEL COOP	10	2,399	654	56,957	23,878	13,098	93,933
532397	87	SCIO MUTUAL TEL ASSN	1	505	83	7,940	4,906	1,615	14,460
532399	*	STAYTON COOP TEL CO	5	951	416	35,919	9,768	6,779	52,466
532404	87	ASOTIN TEL - OR	0	16	12	151	160	185	497
532449	87	CONTEL OF THE NW- OR	21	7,570	1,933	166,016	73,301	34,977	274,293
532456	87	MALHEUR HOME TEL CO	10	594	1,700	107,566	13,359	31,788	152,713
542301	87	CALAVERAS TEL CO	2	665	59	5,480	5,382	975	11,837
542304	87	C P NATIONAL CORP-CA	11	4,323	1,069	62,326	41,330	12,381	116,036
542306	*	CAPAY VALLEY TEL SYS	0	52	23	1,977	538	373	2,888
542308	87	CITIZENS UTIL OF CA	53	14,515	3,596	485,223	156,572	55,254	697,049
542311	87	CALIF-OREGON TEL CO	2	393	483	9,695	4,839	4,695	19,229
542313	87	DUCOR TELEPHONE CO	1	273	17	2,105	2,755	357	5,217
542315	87	EVANS TEL CO.	8	3,476	383	44,165	29,395	4,598	78,159
542318	87	FORESTHILL TEL CO.	2	0	0	0	0	0	0
542321	87	HAPPY VALLEY TEL CO	2	0	0	0	0	0	0
542322	87	HORNITOS TEL CO	0	0	0	0	0	0	0
542324	87	KERMAN TELEPHONE CO	4	955	145	40,522	14,105	2,890	57,517
542332	87	THE PONDEROSA TEL CO	6	2,305	191	27,619	19,986	2,877	50,482
542334	87	ROSEVILLE TEL CO	62	17,391	4,472	605,801	137,835	54,690	798,326
542338	87	SIERRA TELEPHONE CO	11	3,894	521	71,352	42,803	7,526	121,680
542339	87	THE SISKIYOU TEL CO	3	1,236	280	13,681	15,119	4,214	33,014

TABLE 4.12

 1987 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS, MSG'S AND SLU (IN THOUSANDS)

F CODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
542342	87	TUOLUMNE TEL CO	4	2,022	162	18,651	18,781	3,402	40,834
542343	87	THE VOLCANO TEL CO	7	2,040	185	26,008	31,697	3,985	61,690
542346	+	PINNACLES TEL CO	0	220	33	279	1,723	482	2,484
552223	87	GEM STATE UTIL-NV	0	42	58	1,509	437	661	2,606
552233	87	RURAL TEL CO - NV	0	40	16	220	368	341	929
552302	87	CONTEL OF CALIF-NV	19	3,476	5,908	102,721	30,491	58,575	191,787
552304	87	CP NATIONAL-NV	10	1,896	2,991	55,951	18,378	32,825	107,153
552349	87	CHURCHILL COUNTY TEL	8	1,137	1,343	61,561	9,419	20,956	91,935
552351	87	LINCOLN CTY TEL SYS	2	369	212	7,200	3,926	3,320	14,446
552353	87	MOAPA VALLEY TEL CO.	2	374	311	12,729	3,721	4,307	20,757
552354	87	NEVADA TEL-TELEGRAPH	2	594	558	12,895	4,941	7,799	25,635
552356	87	RIO VIRGIN TEL CO	1	135	456	5,406	1,029	4,126	10,561
613000	87	ANCHORAGE TEL UTIL	129	11,594	12,065	1,809,209	134,842	297,498	2,241,548
613001	87	ARCTIC SLOPE TEL	1	796	527	8,033	9,302	8,272	25,606
613003	87	BRISTOL BAY TEL COOP	1	307	139	5,440	2,647	2,172	10,260
613004	87	BUSH-TELL INC.	1	237	24	3,087	2,095	419	5,602
613006	87	COPPER VALLEY TEL	3	670	365	20,431	7,240	7,379	35,049
613007	87	CORDOVA TEL COOP	1	231	200	10,048	2,459	3,634	16,140
613008	87	FAIRBANKS MUNICIPAL	26	2,658	2,536	300,702	33,567	54,269	388,537
613009	87	GTE ALASKA INC.	12	2,670	1,435	93,300	33,023	27,498	153,821
613010	87	GLACIER STATE TEL CO	29	4,707	2,993	290,151	46,945	80,377	417,473
613011	87	INTERIOR TEL CO INC	2	643	508	10,797	6,834	8,248	25,879
613012	87	JUNEAU & DOUGLAS TEL	15	1,815	2,468	162,738	23,282	41,062	227,082
613013	87	KETCHIKAN PUBLIC UT	7	725	1,152	65,762	8,781	19,755	94,298
613015	87	MATANUSKA TEL ASSOC	27	5,742	1,733	294,407	62,645	54,539	411,591
613016	87	MUKLUK TEL CO INC	1	253	34	2,542	2,463	617	5,622
613018	87	NUSHAGAK TEL COOP	1	363	145	10,274	3,913	2,683	16,870
613019	87	OTZ TEL COOPERATIVE	2	614	118	13,175	6,526	2,013	21,714
613020	87	SITKA TELEPHONE CO	8	2,026	1,213	49,636	20,182	20,087	89,905
613022	87	TEL UTIL OF ALASKA	2	166	343	17,359	1,537	8,139	27,035
613023	87	UNITED UTILITIES INC	3	1,388	145	20,194	13,576	2,911	36,682
613025	87	YUKON TEL CO INC	0	147	28	1,455	1,427	687	3,569
633200	87	PUERTO RICO COMM	89	23,107	3,063	805,005	233,094	74,049	1,112,148
643300	87	VIRGIN ISLANDS TEL	42	0	9,109	1,005,897	0	189,300	1,195,196
678		NONTIER 1 CO'S TOTALS	5,339	1,278,221	527,079	47,313,733	13,119,807	8,676,641	69,110,171
888888	87	AVERAGE SCHEDULE CO.	2,800	519,000	227,200	19,595,300	5,328,600	3,698,000	28,621,900
TOTAL		NONTIER 1 & AV. SCH.	8,139	1,797,221	754,279	66,909,033	18,448,407	12,374,641	97,732,071

* - COMPANIES WHO NECA COMPUTED DATA FOR

+ - COMPANIES WHO SUBMITTED 1986 RATHER THAN 1987

TABLE 4.13

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS,MSG & SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
100003	88	LINCOLNVILLE TEL CO	1	318	116	6,941	2,755	2,472	12,169
100004	88	CHINA TEL CORP	2	1,076	190	9,069	8,646	3,733	21,448
100010	*	HAMPDEN TEL CO	2	509	208	18,904	5,163	3,511	27,578
100011	88	HARTLAND & ST ALBANS	3	840	186	14,361	7,423	3,458	25,242
100014	88	CONTEL OF MAINE	38	11,486	4,419	223,419	98,844	66,608	388,871
100024	88	SOMERSET TEL CO	9	2,571	745	38,090	24,146	12,769	75,004
100025	88	STANDISH TEL CO	5	2,187	524	21,964	19,595	9,959	51,517
100027	88	UNION RIVER TEL CO	1	296	62	3,216	2,648	1,353	7,217
100029	88	UNITY TEL CO., INC.	3	1,242	261	17,352	9,594	4,317	31,263
100031	88	WARREN TEL CO	1	666	121	4,477	5,765	1,871	12,113
100034	88	WEST PENOBSCOT TEL	2	694	106	7,803	6,125	1,807	15,735
120038	88	BRETTON WOODS TEL CO	0	75	84	392	570	685	1,647
120039	88	GRANITE STATE TEL	7	1,712	1,204	35,042	16,364	17,584	68,990
120040	*	CHICHESTER TEL CO	1	304	124	11,285	3,082	2,096	16,463
120041	88	CONTEL OF NH	10	2,642	2,051	54,104	20,894	28,123	103,121
120045	88	KEARSARGE TEL CO	5	2,054	1,134	21,765	17,388	15,135	54,287
120046	88	MERIDEN TEL CO	0	108	136	1,719	966	1,872	4,557
120047	88	MERRIMAK COUNTY TEL	6	1,823	964	48,078	21,036	17,463	86,577
120049	88	UNION TEL CO	5	1,312	684	17,920	11,441	11,633	40,994
120050	88	WILTON TEL CO - NH	2	705	1,083	16,332	5,337	10,303	31,972
140058	88	LUDLOW TEL CO	4	811	673	11,835	6,400	7,796	26,031
140061	88	NORTHFIELD TEL CO	3	733	526	14,502	6,750	8,957	30,210
140062	88	PERKINSVILLE TEL CO	1	297	153	2,101	2,698	1,853	6,652
140068	88	TOPSHAM TEL CO	1	205	144	7,715	1,976	2,164	11,856
140069	88	WAITSFIELD/FAYSTON	4	847	899	16,249	7,327	13,585	37,161
140070	88	CONTEL OF VERMONT	33	8,079	6,208	186,531	69,623	81,163	337,318
150072	88	AU SABLE VALLEY TEL	6	1,821	461	27,132	17,433	8,457	53,022
150077	88	CHAMPLAIN TEL CO	4	1,334	1,243	31,371	9,672	10,498	51,542
150078	88	CHAUTAQUA & ERIE	9	2,086	1,377	68,995	21,612	18,435	109,043
150081	88	CITIZENS HAMMOND NY	1	356	54	4,357	3,609	805	8,771
150082	88	CLYMER TEL CO	1	225	239	6,273	2,250	2,819	11,342
150084	88	TACONIC TEL CORP	18	4,953	3,009	130,028	56,834	38,335	225,197
150085	88	CROWN POINT TEL CORP	1	251	71	5,704	2,545	1,040	9,288
150091	88	DUNKIRK & FREDONIA	9	1,364	598	82,572	21,102	9,816	113,490
150092	88	EDWARDS TEL CO	2	703	73	9,373	6,799	1,580	17,752
150093	88	EMPIRE TEL CORP	6	2,270	559	26,928	20,978	9,063	56,969
150097	88	GERMANTOWN TEL CO	2	827	183	11,538	8,558	3,046	23,142
150099	88	HANCOCK TEL CO	1	415	213	7,981	3,756	2,669	14,406
150100	88	HIGHLAND TEL CO	49	22,398	10,063	472,242	241,814	168,590	882,646
150105	88	MIDDLEBURGH TEL CO	4	1,672	312	25,808	18,456	6,023	50,287
150106	88	ALLTEL NY-FULTON	39	6,040	3,159	523,568	72,821	59,044	655,433
150108	88	NICHOLVILLE TEL CO	1	548	101	11,699	5,094	2,016	18,809
150109	88	ALLTEL NY-JAMESTOWN	41	6,445	6,563	455,918	70,022	92,890	618,831
150110	88	OGDEN TEL CO	17	1,812	1,084	230,220	24,659	23,390	278,270

TABLE 4.13

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS,MSG & SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
150113	88	ALLTEL NY-RED JACKET	2	806	150	19,020	8,042	2,259	29,321
150116	*	PATTERSONVILLE TEL	1	264	108	9,818	2,681	1,824	14,323
150119	88	RED HOOK TEL CO	12	3,467	1,119	98,653	48,772	25,119	172,543
150122	88	SENECA-GORHAM TEL	7	3,367	487	42,915	33,894	10,132	86,941
150128	88	SYLVAN LAKE TEL CO	13	3,561	1,849	182,619	65,409	40,775	288,803
150133	88	VERNON TEL CO	2	597	151	16,747	6,813	3,000	26,559
150135	88	WARWICK VALLEY-NY	11	4,410	2,404	71,058	44,203	30,491	145,752
150136	88	WESTERN COUNTIES TEL	19	6,318	2,149	143,004	68,173	37,950	249,127
160135	88	WARWICK VALLEY-NJ	7	3,925	981	34,215	46,587	17,925	98,727
170170	88	CONTEL OF PA	50	13,033	4,102	457,487	149,894	72,382	679,763
170177	*	LACKAWAXEN TEL CO	2	792	324	29,414	8,033	5,464	42,911
170183	88	MAHANAY & MAHANTONGO	3	929	119	21,927	9,964	2,116	34,008
170192	88	NORTH PENN TEL CO	4	845	769	24,432	8,346	9,214	41,993
170194	88	OSWAYO RIVER TEL CO	2	284	335	11,501	2,971	4,600	19,072
170201	88	QUAKER STATE TEL CO	31	5,791	5,335	228,155	64,872	59,358	352,385
170206	88	SUGAR VALLEY TEL CO	1	262	125	5,216	2,557	1,359	9,132
190217	88	AMELIA TEL CORP	3	1,049	251	28,492	11,140	4,788	44,420
190249	88	ROANOKE & BOTETOURT	7	1,384	1,012	77,124	18,594	11,063	106,782
200259	88	HARDY TEL CO	2	145	238	22,928	1,451	3,450	27,829
200270	88	MOUNTAIN STATE TEL	16	4,031	2,037	235,200	41,202	34,089	310,490
200278	88	CONTEL OF WV	24	6,262	2,855	303,190	63,667	42,030	408,887
210291	88	FLORALA TEL CO	3	204	129	17,438	2,757	2,175	22,370
210318	88	SOUTHLAND TEL-FL	3	293	272	42,686	3,554	4,602	50,841
210329	88	GULF TEL CO	7	1,570	810	84,203	20,709	14,437	119,348
210330	88	VISTA-UNITED TELCOM	10	1,860	3,961	92,193	25,783	61,432	179,408
210331	88	INDIANTOWN SYSTEM	2	1,223	288	11,083	11,786	5,665	28,533
210335	88	NORTHEAST FLORIDA	5	1,405	510	44,575	15,433	10,427	70,435
210336	88	ALLTEL FLORIDA INC.	49	11,712	4,772	487,879	122,989	75,944	686,811
210338	88	QUINCY TEL CO-FL DIV	9	2,225	979	116,938	24,000	16,277	157,215
210339	88	ST JOSEPH TEL & TEL	22	4,362	2,073	172,216	46,028	30,946	249,190
220281	88	CONTEL OF SOUTH - GA	62	13,782	4,853	612,983	153,022	86,881	852,886
220338	88	QUINCY TEL CO-GA DIV	1	59	135	10,229	868	2,054	13,152
220344	88	ALMA TEL CO	5	1,355	388	56,991	13,173	5,868	76,032
220347	88	BRANTLEY TEL CO	3	876	226	30,105	8,110	3,417	41,633
220351	88	CAMDEN TEL & TEL CO	10	1,438	2,914	103,085	17,105	34,528	154,719
220355	88	CITIZENS TEL CO - GA	4	1,045	246	45,678	9,945	4,413	60,036
220356	88	COASTAL UTILITIES	21	4,590	4,293	182,578	50,212	82,307	315,097
220358	88	DARIEN TEL CO	3	918	333	31,419	9,339	5,076	45,834
220360	88	ELLIJAY TEL CO	7	1,586	484	61,173	16,651	6,448	84,272
220371	*	INTERSTATE TEL CO	10	2,924	1,194	108,538	29,643	20,161	158,342
220377	88	PINELAND TEL COOP	9	2,055	469	94,335	21,661	9,128	125,124
220379	88	PLANT TEL. CO.	7	2,067	520	74,067	20,041	8,061	102,170
220381	88	PUBLIC SERVICE TEL	8	2,233	447	90,172	22,656	9,491	122,319
220386	88	STANDARD TEL CO	34	10,388	3,514	386,437	114,230	60,211	560,878

TABLE 4.13

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS,MSG & SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
220392	88	WAVERLY HALL TEL CO	1	302	71	5,366	3,328	1,248	9,943
220394	*	WILKES TEL & ELC CO	9	1,448	591	53,744	14,678	9,983	78,406
230468	88	ATLANTIC MEMBERSHIP	19	2,920	1,840	157,582	30,808	25,288	213,678
230469	88	BARNARDSVILLE TEL CO	1	118	54	11,055	1,342	1,253	13,651
230473	88	CITIZENS TEL CO	14	1,953	1,493	144,870	19,178	28,608	192,656
230474	88	CONCORD TEL CO	75	13,714	5,340	870,839	123,958	92,893	1,087,690
230476	88	ALLTEL CAROLINA-NO	92	17,648	10,893	1,140,447	197,243	183,872	1,521,561
230481	88	HEINS TEL CO	24	4,417	2,591	300,551	52,125	46,798	399,473
230502	88	STAR MEMBERSHIP CORP	12	3,084	561	148,616	32,710	13,640	194,967
230509	88	CONTEL OF NC	81	14,116	10,751	981,618	147,778	174,547	1,303,943
230510	88	WILKES MEMBERSHIP	7	865	260	112,683	9,981	5,325	127,990
240512	88	BLUFFTON TEL. CO.	3	850	589	9,648	7,548	7,091	24,287
240520	88	FARMERS TEL COOP	36	7,046	4,173	548,781	70,892	79,555	699,228
240523	88	HARGRAY TEL CO	31	3,113	10,001	215,296	34,587	123,192	373,075
240526	88	CONTEL OF SC	14	2,620	2,141	181,710	24,335	32,297	238,342
240528	*	HORRY TEL COOP	40	14,181	5,794	526,450	143,781	97,790	768,021
240533	88	MCCLELLANVILLE TEL	1	454	97	9,204	4,209	2,153	15,566
240539	88	POND BRANCH TEL CO	7	2,283	479	77,611	19,406	9,679	106,696
240551	88	WILLISTON TEL CO	3	951	298	38,256	9,714	4,987	52,957
250281	88	CONTEL OF THE SOUTH	78	19,073	9,308	1,115,732	180,281	114,423	1,410,435
250284	*	BUTLER TEL CO	3	1,116	456	41,416	11,311	7,693	60,421
250297	88	GROVE HILL TEL CORP	2	702	127	17,014	6,638	2,369	26,022
250298	88	GULF TEL CO - AL	24	4,073	4,547	220,486	30,947	50,600	302,032
250300	88	HOPPER TEL. CO INC	3	895	138	24,792	8,073	2,469	35,334
250304	88	MILLRY TEL CO	5	1,100	592	52,354	10,685	7,342	70,381
250306	88	MONROEVILLE TEL CO	10	1,959	1,139	163,741	22,389	22,468	208,598
250314	88	PEOPLES TEL CO	10	1,788	1,174	126,632	16,865	16,443	159,940
250316	88	RAGLAND TEL CO	1	312	54	9,691	3,197	991	13,879
250318	88	SOUTHLAND TEL CO-AL	9	2,020	1,074	152,422	24,874	18,942	196,237
250461	88	SOUTHEAST MS TEL CO	3	774	338	33,462	7,009	5,233	45,705
260410	88	CONTEL OF KENTUCKY	62	12,305	6,394	830,076	122,898	108,354	1,061,327
270422	88	ATHENS TEL CO	0	126	19	1,871	1,362	495	3,727
270423	88	CENTRAL LOUISIANA	13	3,509	1,084	160,119	35,434	22,595	218,148
270424	88	COASTAL TEL & ELECTR	10	3,185	622	100,122	28,147	12,046	140,315
270425	88	CAMERON TEL CO - LA	6	1,637	658	53,548	18,489	13,857	85,894
270429	88	EAST ASCENSION TEL	21	7,436	2,885	295,622	59,114	39,242	393,979
270430	*	ELIZABETH TEL CO	2	322	131	11,936	3,260	2,217	17,412
270431	88	CADDOAN TEL CO	8	1,806	1,228	95,124	18,907	19,414	133,445
270433	88	LAFOURCHE TEL CO	12	2,887	1,334	116,265	21,254	10,964	148,483
270434	88	EVANGELINE TEL CO	26	3,808	931	150,289	36,168	18,592	205,049
270435	88	NORTHEAST LOUISIANA	1	331	73	9,469	3,942	1,604	15,015
270436	88	CENTURY NORTH LA	1	294	106	8,131	2,738	2,102	12,971
270437	88	PLAIN DEALING TEL CO	2	444	147	17,579	4,036	3,119	24,733
270440	88	CENTURY TEL CO	2	675	138	23,243	7,384	3,307	33,934

TABLE 4.13

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS,MSG & SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
270442	88	LOUISIANA WESTERN	3	524	158	16,951	5,208	3,195	25,353
270443	88	UTC OF LOUISIANA	3	752	275	27,842	7,460	4,673	39,974
280446	88	BAY SPRINGS TEL CO	8	2,020	530	112,843	19,415	10,218	142,476
280452	88	DELTA TEL CO	3	628	213	35,388	5,349	3,912	44,649
280454	88	FRANKLIN TEL CO - MS	6	1,478	425	64,386	13,580	8,565	86,531
280458	88	HOME TEL CO-OLIVE BR	8	818	1,999	92,352	10,717	31,124	134,192
280459	88	HUGHES TEL CO	5	618	351	76,899	5,830	7,482	90,212
290552	88	ADAMSVILLE TEL CO	6	655	574	82,427	7,731	9,113	99,271
290571	88	MILLINGTON TEL CO	17	1,531	2,798	269,080	19,785	51,571	340,436
290575	88	TENNESSEE TEL CO	36	5,155	4,453	544,056	54,990	65,992	665,038
290579	88	TWIN LAKES TEL COOP	24	3,671	1,603	279,307	37,347	30,594	347,247
300597	*	THE CHILLICOTHE TEL	25	4,652	1,901	172,702	47,167	32,080	251,949
300607	*	CONTEL OF OHIO	2	309	126	11,461	3,130	2,129	16,720
300613	88	FAYETTEVILLE TEL CO	1	353	70	11,176	3,103	1,619	15,898
300620	88	HARLAN TEL CO	1	227	53	7,210	2,263	1,195	10,667
300665	88	ALLTEL OHIO-WEST OH	17	5,482	1,436	144,996	55,981	27,646	228,623
300682	88	C, C & S TELCO -OHIO	0	126	63	2,413	1,290	936	4,639
310679	88	BLOOMINGDALE TEL CO	1	775	95	5,562	6,961	1,795	14,319
310680	88	CHIPPEWA COUNTY TEL	1	289	44	3,025	2,496	934	6,454
310681	88	ALLTEL MICHIGAN INC.	39	14,762	4,511	299,102	153,546	62,881	515,529
310682	88	C, C & S TELCO - MI	18	4,806	1,343	127,814	51,520	23,025	202,360
310683	88	CARR TEL CO	1	336	37	3,466	3,542	873	7,881
310685	88	CHATHAM TEL CO - MI	2	585	127	16,352	5,295	2,464	24,112
310687	88	CLAYTON TEL CO	0	303	43	1,893	2,906	653	5,452
310699	88	HICKORY TEL CO	0	203	83	14,369	2,981	1,649	19,000
310702	88	CENTURY OF MICHIGAN	41	14,427	2,324	232,352	146,890	39,917	419,159
310704	88	ACE TEL OF MICHIGAN	3	1,267	111	10,094	11,406	2,049	23,549
310711	88	MIDWAY TEL CO	1	180	46	3,891	1,846	840	6,577
310713	*	HIAWATHA TEL CO	4	681	278	25,286	6,906	4,697	36,888
310714	*	OGDEN TEL CO	0	87	36	3,238	884	601	4,724
310717	88	ONTONAGON COUNTY TEL	4	640	345	30,541	6,686	5,629	42,856
310721	88	PIGEON TEL CO	3	1,205	158	12,307	11,319	2,458	26,085
310728	88	SPRINGPORT TEL CO	2	739	54	7,826	6,614	1,176	15,616
310732	*	UPPER PENINSULA TEL	3	945	386	35,063	9,576	6,513	51,152
310737	88	WINN TEL CO	1	387	28	1,701	3,433	1,074	6,208
310738	88	WOLVERINE TEL CO	7	2,905	295	65,588	30,750	6,539	102,877
320753	88	CLAY CTY RURAL COOP	8	2,275	526	79,843	23,225	9,231	112,300
320762	88	ELNORA TEL CO	0	96	24	3,322	1,047	438	4,806
320776	*	COMM CORP OF INDIANA	7	1,530	625	56,780	15,507	10,547	82,835
320778	88	HOME TEL CO INC	0	391	89	20,422	4,496	1,895	26,813
320779	88	CONTEL OF INDIANA	137	29,289	17,889	1,501,217	313,086	235,658	2,049,960
320797	88	NEW PARIS TEL INC	2	420	195	15,878	3,562	2,708	22,148
320800	88	NORTHWESTERN INDIANA	8	2,963	1,135	69,081	29,182	17,103	115,366
330841	88	CENCOM OF WISCONSIN	22	4,430	1,502	146,751	44,736	20,790	212,277

TABLE 4.13

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS,MSG & SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
330844	88	BADGER TELECOM, INC.	0	916	237	33,620	7,978	3,327	44,925
330851	88	BONDUEL TEL CO	0	389	77	11,755	3,610	1,140	16,506
330856	88	BURLINGTON B&W	0	927	414	16,116	8,968	6,590	31,673
330859	88	CENTRAL STATE TEL CO	7	1,989	431	51,279	19,994	10,211	81,483
330860	88	CHEQUAMEGON TEL COOP	6	1,091	549	23,403	9,994	8,616	42,013
330870	88	CRANDON TEL CO	2	461	102	15,052	4,985	2,126	22,163
330876	88	DODGE COUNTY TEL CO	0	239	32	7,440	2,396	699	10,535
330882	88	FENNIMORE TEL CO	0	469	133	12,273	5,016	1,886	19,175
330888	88	GREENWOOD TEL CO	0	256	68	9,667	2,664	1,158	13,489
330891	*	HEADWATERS TEL CO	4	652	266	24,205	6,611	4,496	35,312
330895	88	CENTURY OF WISCONSIN	46	4,978	6,141	485,966	64,869	105,552	656,387
330898	88	LARSEN-READFIELD TEL	0	635	90	11,806	6,603	1,512	19,921
330908	88	MARQUETTE-ADAMS COOP	3	700	333	10,206	5,707	6,563	22,477
330909	88	MIDWAY TEL CO	7	1,573	689	56,645	17,003	11,144	84,792
330913	88	MONROE COUNTY TEL CO	9	1,859	1,000	71,945	18,995	18,280	109,220
330914	88	MOSEL & CENTERVILLE	0	711	188	29,273	7,622	3,896	40,791
330916	*	MOUNT HOREB TEL CO	3	566	231	21,024	5,742	3,905	30,671
330917	88	MT VERNON TEL CO	5	1,047	472	53,170	11,227	7,982	72,379
330922	*	NORTH-WEST TEL CO	55	10,460	4,273	388,313	106,054	72,131	566,497
330931	88	PEOPLES TEL CO	6	1,538	371	39,123	14,719	6,131	59,973
330934	*	PLATTEVILLE TEL CO	8	1,657	677	61,518	16,801	11,427	89,747
330936	88	INDIANHEAD TEL CO	2	450	119	7,666	4,134	2,139	13,939
330937	88	PRICE COUNTY TEL CO	4	660	263	22,587	6,613	4,403	33,604
330940	*	RHINELANDER TEL CO	10	2,140	874	79,430	21,693	14,754	115,878
330945	88	SCANDINAVIA TEL CO	0	595	180	13,234	6,256	2,770	22,261
330950	88	OLON SPRINGS TEL CO	14	2,589	1,828	81,889	25,705	26,256	133,850
330952	88	SE TEL OF WISCONSIN	6	1,675	435	48,140	17,654	8,258	74,052
330954	88	STOCKBRIDGE & SHERWD	0	672	102	15,937	6,269	1,905	24,110
330956	88	UNIVERSAL OF N WISC	10	2,378	801	60,911	24,135	14,712	99,759
330963	88	UTELCO, INC	13	2,283	1,149	133,618	23,113	17,386	174,116
330964	88	URBAN TEL CORP	17	3,941	987	135,709	46,716	15,999	198,424
330965	88	VALDERS TEL CO	0	529	88	15,515	5,087	1,664	22,267
330974	88	WOOD COUNTY TEL CO	22	3,451	1,514	191,305	32,992	24,077	248,375
341000	*	ALLTEL ILLINOIS INC.	40	11,612	4,744	431,072	117,731	80,073	628,876
341004	88	EL PASO TEL CO	2	633	161	10,279	6,254	2,142	18,675
341011	88	LAKESIDE TEL CO	0	240	72	5,401	2,509	970	8,881
341023	88	GRIDLEY TEL CO	1	549	132	5,139	5,184	1,450	11,773
341036	88	CONTEL OF ILLINOIS	161	50,222	14,692	1,199,164	569,825	254,732	2,023,722
341037	88	IL CONSOLIDATED TEL	75	24,871	8,318	693,940	237,785	113,725	1,045,450
341038	88	INLAND TEL CO	4	1,899	213	20,269	19,659	4,359	44,287
341045	88	LEAF RIVER VLY TEL	1	245	29	2,460	2,323	571	5,354
341055	88	MIDLAND TEL CO	4	1,670	239	23,350	17,562	3,810	44,721
341060	88	MOULTRIE INDEPENDENT	1	246	23	4,332	2,408	562	7,302
341073	88	PRAIRIE TEL CO	0	296	52	6,466	3,127	1,005	10,598

TABLE 4.13

1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS,MSG & SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
351105	88	AYRSHIRE FARMERS MUT	0	175	22	1,454	1,387	389	3,230
351110	*	BERNARD TEL CO INC	0	81	33	3,018	824	561	4,403
351127	88	CENDEL OF IOWA	0	12,433	6,646	391,329	116,252	93,284	600,866
351207	88	CONTEL OF IOWA, INC.	72	18,118	4,223	544,748	192,312	84,246	821,306
351229	*	LOST NATION-ELWOOD	1	105	43	3,884	1,061	721	5,666
351316	*	UNITED FARMERS TEL	1	156	64	5,805	1,586	1,078	8,469
351327	88	WEBB-DICKENS TEL	0	225	38	1,421	2,079	695	4,196
351346	88	ACE TEL ASSN-IA	4	791	330	28,317	8,104	4,466	40,887
351888	88	GRAND RIVER MUT-IA	5	1,258	913	46,202	13,494	10,747	70,443
361140	88	CONTEL OF MINNESOTA	96	22,192	5,022	770,400	294,844	131,325	1,196,570
361346	88	ACE TEL ASSN-MN	9	1,628	3,364	77,957	17,246	21,716	116,919
361350	*	ARVIG TEL CO	8	1,230	502	45,657	12,470	8,481	66,608
361370	88	CLARA CITY TEL EXCH	1	442	78	8,350	4,244	1,210	13,804
361374	88	ARROWHEAD COMM CORP	1	193	37	2,038	1,784	623	4,445
361379	88	DEER RIVER TEL CO	2	250	90	13,957	2,740	1,819	18,515
361385	*	EAST OTTER TAIL TEL	13	2,336	954	86,701	23,679	16,105	126,485
361395	88	GARDEN VALLEY TEL CO	13	2,564	620	94,433	37,421	15,260	147,113
361410	88	JOHNSON TEL CO	1	256	56	5,883	2,492	1,333	9,708
361414	88	LAKEDALE TEL CO	10	3,544	474	57,878	35,008	7,358	100,244
361433	88	MID STATE TEL CO	6	1,196	280	39,894	12,836	5,055	57,786
361442	88	NEW ULM TELECOM, INC	8	2,087	714	69,676	19,997	11,459	101,132
361443	88	NORMAN COUNTY TEL CO	4	563	387	32,466	6,357	5,519	44,343
361451	88	PAUL BUNYAN RURAL	5	1,041	263	43,995	11,694	5,861	61,549
361483	88	SLEEPY EYE TEL CO	5	1,553	296	35,330	15,440	5,138	55,909
361491	*	TWIN VALLEY-ULEN TEL	3	509	208	18,903	5,163	3,511	27,577
371516	88	ARAPAHOE TEL CO	1	264	70	6,720	2,467	1,283	10,471
371517	88	ARLINGTON TEL CO	1	349	49	6,152	3,713	1,606	11,471
371524	88	BLAIR TEL CO	5	1,560	700	46,077	15,339	11,500	72,916
371525	88	THREE RIVER TELCO	1	305	118	7,327	3,108	1,873	12,308
371526	*	CAMBRIDGE TEL CO -NE	0	211	86	7,830	2,138	1,454	11,422
371531	*	CLARKS TEL CO	0	139	57	5,178	1,414	962	7,554
371534	88	COZAD TEL CO	3	661	252	16,047	6,411	3,922	26,380
371536	88	CURTIS TEL CO	1	185	54	5,006	2,108	1,028	8,143
371537	88	DALTON TEL CO, INC	1	392	147	7,747	4,073	2,588	14,408
371540	88	DILLER TEL CO	1	302	69	5,023	2,526	1,007	8,556
371542	88	EASTERN NEBRASKA TEL	2	782	341	16,633	6,876	4,264	27,773
371557	88	HARTMAN TEL EXCH INC	0	92	83	2,541	1,045	1,220	4,807
371558	88	HEMINGFORD COOP TEL	1	113	76	9,186	1,346	1,444	11,976
371567	*	KEYSTONE-ARTHUR TEL	1	88	36	3,260	890	605	4,755
371574	88	NEBRASKA CENTRAL TEL	6	879	348	22,986	9,022	7,412	39,420
371577	88	GREAT PLAINS COMMUN	25	6,954	2,490	167,954	67,821	41,012	276,786
371580	88	PETERSBURG TEL CO	0	160	18	2,520	1,573	348	4,441
371586	88	ROCK COUNTY TEL CO	1	259	91	7,996	3,288	1,764	13,048
371591	*	SE NEBRASKA TEL CO	4	655	268	24,330	6,645	4,519	35,495

TABLE 4.13

1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS,MSG & SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
371592	88	STANTON TEL CO, INC	1	331	610	7,335	2,876	2,129	12,341
371597	88	WAUNETA TEL CO	1	184	68	4,386	1,553	1,109	7,047
372455	88	BENKELMAN TEL CO	1	178	135	7,940	1,784	1,959	11,684
381447	88	CONTEL OF N. DAKOTA	10	1,747	681	95,064	21,831	14,627	131,522
381607	*	CONSOLIDATED COOP	4	1,019	416	37,839	10,334	7,029	55,202
381616	88	INTER-COMMUNITY TEL	1	431	94	9,447	4,117	1,799	15,363
381617	88	MIDSTATE TEL CO	1	366	165	8,727	3,796	2,771	15,295
381630	*	POLAR COMM MUT AID	8	1,939	792	71,968	19,656	13,368	104,992
381632	*	RESERVATION TEL COOP	4	1,072	438	39,803	10,871	7,394	58,067
381634	*	SOURIS RIVER TEL MUT	12	4,492	1,835	166,755	45,543	30,975	243,274
381637	88	W. RIVER MUTUAL AID	9	2,015	832	82,577	19,361	15,228	117,167
391643	88	CONTEL OF S. DAKOTA	8	1,574	611	58,129	19,369	17,643	95,141
391647	88	CHEYENNE RIVER SIOUX	2	448	166	20,548	4,052	3,376	27,976
391659	88	GOLDEN WEST TELECOMM	12	2,735	1,616	94,744	25,818	28,041	148,603
391666	88	JEFFERSON TEL CO -SD	0	84	164	2,189	596	1,798	4,583
391667	88	KADOKA TELEPHONE CO	1	126	102	2,532	992	1,020	4,544
391668	88	KENNEBEC TEL CO	0	94	30	1,264	902	351	2,518
391689	88	WEST RIVER COOP	2	283	215	14,973	3,206	3,402	21,581
401691	88	ALLTEL ARKANSAS INC	59	17,959	7,830	617,210	169,866	123,073	910,148
401692	88	ARKANSAS TEL CO	6	1,047	547	54,072	8,298	10,057	72,427
401697	88	CENTRAL ARKANSAS TEL	2	602	120	20,043	5,523	2,470	28,035
401698	88	CLEVELAND COUNTY TEL	2	743	111	16,391	7,477	2,467	26,335
401699	88	DECATUR TEL CO INC	1	301	115	3,727	2,413	1,623	7,763
401702	88	SOUTH ARKANSAS TEL	3	873	190	29,002	8,076	4,152	41,229
401705	88	LIBERTY TEL & COMM	11	2,247	1,285	106,490	20,927	24,129	151,546
401709	88	MADISON COUNTY TEL	2	683	253	21,072	5,744	4,564	31,380
401711	88	MOUNTAIN HOME TEL	14	1,746	1,961	87,606	18,398	37,001	143,005
401713	88	NORTH ARKANSAS TEL	4	1,321	566	24,949	10,826	11,455	47,230
401720	88	REDFIELD TEL CO	1	563	75	9,979	4,941	1,963	16,883
401726	88	TRI-COUNTY TEL CO-AR	4	733	249	35,438	6,758	5,924	48,120
401727	88	UNION TEL CO INC	1	219	160	6,795	2,169	2,267	11,231
401729	88	WALNUT HILL TEL CO	4	1,030	605	32,491	10,932	9,847	53,270
401730	88	CONTEL OF ARKANSAS	66	20,579	7,793	783,674	198,239	143,493	1,125,406
401733	88	YELCOT TEL CO INC	3	628	287	25,049	5,735	5,459	36,243
401734	88	YELL COUNTY TEL CO	4	1,185	242	36,029	10,580	5,111	51,721
411741	88	ASSARIA TEL EXCHANGE	0	245	38	2,092	2,401	925	5,418
411746	88	BLUE VALLEY TEL CO	3	1,045	220	12,859	9,377	3,295	25,531
411761	88	CUNNINGHAM TEL CO	2	477	88	6,915	4,857	1,838	13,609
411764	88	ELKHART TEL CO INC	2	271	292	8,081	2,552	3,971	14,605
411781	88	H & B COMMUNICATIONS	1	366	73	3,876	3,303	1,330	8,510
411782	88	HOME TEL CO	1	550	81	6,261	4,922	1,480	12,663
411785	88	J. B. N. TEL CO INC	2	1,280	192	12,443	12,724	3,526	28,693
411788	88	KANOKLA TEL ASSN-KS	2	603	220	12,161	5,843	3,528	21,532
411789	88	KANSAS STATE TEL CO	5	753	1,398	41,385	7,470	14,119	62,974

TABLE 4.13

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS,MSG & SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
411790	88	CONTEL OF KANSAS	45	18,090	4,280	256,343	176,874	68,725	501,941
411801	88	MADISON TEL CO INC	1	208	43	4,359	1,791	971	7,122
411807	88	MOKAN DIAL INC-KS	2	793	290	11,836	7,263	4,121	23,221
411808	88	MOUNDRIDGE TEL CO	2	799	259	13,883	6,713	4,821	25,417
411814	88	PEOPLES MUTUAL TEL	1	310	187	6,179	2,680	2,124	10,984
411817	88	PIONEER TEL ASSN INC	11	3,041	1,556	85,758	28,082	24,404	138,244
411818	88	CRAW-KAN TEL COOP	12	3,897	1,247	75,042	36,022	19,569	130,633
411826	88	RURAL TEL SERVICE CO	7	2,224	416	39,353	21,117	8,160	68,630
411827	88	S & T TEL COOP ASSN	2	613	145	7,131	6,069	2,610	15,810
411831	*	S. CENTRAL TEL - KS	1	186	76	6,894	1,883	1,280	10,057
411835	88	SUNFLOWER TEL CO	4	969	448	30,282	10,009	8,096	48,387
411840	88	TWIN VALLEY TEL INC	2	737	109	11,057	6,715	2,542	20,315
411841	88	UNITED TEL ASSN	5	1,909	478	25,344	16,684	8,184	50,211
411847	88	THE WHEAT STATE TEL	2	815	166	10,234	7,355	2,648	20,237
411849	88	WILSON TEL CO INC	2	653	106	12,033	6,734	2,493	21,259
411852	88	ZENDA TEL COMPANY	0	106	11	981	1,097	214	2,292
412030	88	TOTAH TELEPHONE CO	1	464	147	4,917	4,357	2,564	11,838
421807	88	MOKAN DIAL INC-MO	1	268	70	4,692	2,416	1,235	8,343
421846	88	CONTINENTAL SYS. -MO	38	11,113	4,122	346,951	102,447	60,482	509,880
421859	88	BOURBEUSE TEL	0	632	93	9,426	6,384	2,097	17,907
421865	88	CITIZENS TEL CO - MO	3	1,102	253	14,683	11,211	4,697	30,591
421873	88	EASTERN MISSOURI TEL	3	1,015	140	14,022	9,619	2,777	26,418
421882	88	FIDELITY TEL CO	10	3,062	769	76,144	27,361	12,480	115,985
421885	88	ALLTEL MISSOURI	21	7,016	1,860	199,640	67,736	36,998	304,373
421886	88	GOODMAN TEL CO	1	537	168	6,540	4,626	2,964	14,130
421888	88	GRAND RIVER MUT-MO	12	2,868	1,003	105,720	29,558	14,922	150,200
421901	88	KINGDOM TELEPHONE CO	2	1,253	224	15,691	11,268	3,609	30,568
421904	88	MISSOURI TEL CO	16	3,588	1,161	132,062	33,221	21,411	186,693
421908	88	LE-RU TELEPHONE CO	1	280	154	5,299	2,458	2,506	10,263
421922	88	CONTEL OF MISSOURI	144	58,488	14,822	1,040,377	474,737	332,610	1,847,724
421929	*	HOLWAY TEL CO	1	105	43	3,901	1,065	725	5,691
421931	88	NE MISSOURI RURAL	3	859	281	26,457	8,549	5,641	40,646
421934	*	ORCHARD FARM TEL CO	1	85	35	3,148	860	585	4,593
421951	88	STOUTLAND TEL CO	1	309	43	7,013	2,876	988	10,877
421963	*	WEBSTER COUNTY TEL	0	821	335	30,473	8,323	5,661	44,456
431788	88	KANOKLA TEL ASSN-OK	1	389	161	6,325	3,782	2,560	12,666
431831	*	S. CENTRAL TEL - OK	0	121	49	4,479	1,223	832	6,535
431965	88	ALLTEL OKLAHOMA INC	11	4,858	956	76,187	47,475	18,980	142,642
431966	88	ATLAS TEL CO	1	529	305	7,935	5,362	3,703	17,001
431974	88	CANADIAN VALLEY TEL	1	198	30	2,108	2,021	765	4,894
431976	88	CARNEGIE TEL CO INC	2	494	93	11,170	4,921	2,052	18,144
431979	88	CHEROKEE TEL CO	4	1,114	828	30,048	10,647	11,685	52,381
431980	88	CHICKASAW TEL CO	7	2,962	431	47,130	29,719	9,576	86,426
431981	88	CHOUTEAU TEL CO	3	881	238	16,618	8,774	3,396	28,788

TABLE 4.13

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS,MSG & SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
431984	88	OKLAMOMA COMM SYSTEM	13	4,793	868	110,137	47,011	20,787	177,935
431985	88	CROSS TEL CO	7	2,530	545	51,311	25,012	10,329	86,652
431988	88	DOBSON TEL CO	4	1,334	383	34,367	12,731	6,445	53,543
431994	88	GRAND TEL CO INC	2	818	252	13,830	7,514	4,065	25,409
431995	88	HINTON TEL CO	3	1,162	203	23,519	10,662	3,742	37,923
432006	88	MICLOUD TEL CO	6	1,759	371	69,918	16,226	10,092	96,236
432010	88	MID-AMERICA TEL INC	0	609	83	7,656	6,111	1,648	15,415
432011	88	OKLAHOMA ALLTEL, INC	10	3,412	1,857	100,967	34,550	23,567	159,083
432013	88	OKLAHOMA TEL & TEL	2	713	142	10,644	6,460	2,140	19,244
432014	88	OKLAHOMA WESTERN TEL	2	802	183	13,618	8,517	3,963	26,098
432016	88	PANHANDLE TEL COOP	4	1,305	1,157	21,894	14,532	14,271	50,697
432018	88	PIONEER TEL COOP INC	36	13,279	2,561	289,122	123,316	43,090	455,528
432020	88	POTTAWATOMIE TEL CO	2	626	85	10,148	6,875	2,220	19,243
432030	88	TOTAH TELEPHONE CO	2	825	176	6,839	8,592	3,158	18,590
432032	88	VALLIANT TEL CO	2	548	207	18,527	5,216	3,140	26,884
432034	88	WYANDOTTE TEL CO	0	135	84	1,712	1,313	1,143	4,168
440425	*	CAMERON TEL CO TEXAS	1	92	38	3,425	935	636	4,997
442039	88	BIG BEND TEL CO INC	3	884	269	12,887	9,256	3,906	26,049
442040	88	BRAZORIA TEL CO	5	1,384	190	53,558	16,607	4,633	74,797
442041	88	BRAZOS TEL COOP INC	1	553	39	1,423	5,172	852	7,447
442046	88	CAP ROCK TEL CO INC	2	957	85	13,156	9,881	1,537	24,574
442052	88	CENTRAL TEXAS CO-OP	4	647	75	16,757	7,984	1,535	26,276
442059	88	COLORADO VALLEY TEL	5	1,322	162	27,940	15,641	3,677	47,258
442066	88	DELL TEL. CO-OP - TX	0	129	82	3,240	1,353	1,208	5,801
442068	*	EASTEX TEL COOP INC	20	2,555	1,044	94,839	25,902	17,617	138,357
442070	88	ETEX TEL COOP INC	9	3,478	455	76,153	40,373	12,083	128,610
442071	88	FIVE AREA TEL CO-OP	1	349	99	9,111	4,149	1,808	15,069
442072	88	FORT BEND TEL CO	18	3,592	1,526	216,712	40,911	28,017	285,640
442076	88	GANADO TELEPHONE CO	1	489	39	7,375	5,098	934	13,407
442083	88	GUADALUPE VALLEY TEL	15	6,983	859	70,402	73,019	21,872	165,293
442086	*	HILL COUNTRY CO-OP	9	985	402	36,573	9,988	6,794	53,355
442093	88	INDUSTRY TEL CO	2	405	31	4,821	4,213	701	9,735
442097	88	KERRVILLE TEL CO	15	3,306	938	114,642	43,594	18,477	176,713
442101	88	LAKE DALLAS TEL CO	4	2,952	476	13,540	25,277	7,628	46,446
442103	88	LA WARD TEL EXCHANGE	1	359	22	2,532	3,886	688	7,106
442104	88	LAKE LIVINGSTON TEL	1	198	31	2,184	2,211	684	5,080
442109	88	LUFKIN-CONROE TEL EX	64	19,415	5,219	690,370	224,966	102,081	1,017,416
442112	88	MID-PLAINS RURAL TEL	2	880	107	13,193	9,698	2,052	24,943
442116	88	MUENSTER TEL CORP-TX	3	1,032	155	13,801	10,196	2,239	26,237
442117	88	MUSTANG TEL CO	2	1,006	330	5,909	8,180	3,616	17,705
442121	88	ALLTEL TEXAS INC	3	718	151	20,065	8,310	3,022	31,398
442129	88	PEEPLS TELEPHONE CO	0	441	47	3,910	3,967	828	8,705
442130	88	PEOPLES TEL COOP -TX	7	2,297	275	44,906	24,149	5,474	74,529
442131	88	POKA-LAMBRO RURAL	3	1,286	127	22,271	12,812	2,361	37,444

TABLE 4.13

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS,MSG & SLU (IN THOUSANDS)

F CODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
442134	88	RIVIERA TEL CO INC	1	394	38	3,677	3,512	1,000	8,188
442135	*	SOUTHWEST TEXAS TEL	3	199	81	7,401	2,021	1,375	10,798
442136	88	ROMAIN TELEPHONE CO	1	266	108	6,041	3,110	1,610	10,762
442147	88	SUGAR LAND TEL CO	29	2,195	3,412	438,080	26,632	58,025	522,737
442148	88	SWEENEY-OLD OCEAN	0	1,242	145	17,958	13,570	2,807	34,335
442151	*	TAYLOR TEL CO-OP INC	5	496	203	18,405	5,027	3,419	26,850
442153	88	TEXAS-MIDLAND TEL	10	4,179	512	50,317	44,864	11,881	107,062
442155	88	TRI-COUNTY TEL - TX	1	316	29	5,280	3,006	669	8,956
442156	88	TRINITY VALLEY TEL	5	1,963	340	45,125	18,639	5,871	69,635
442159	*	VALLEY TEL CO-OP -TX	4	300	123	11,133	3,041	2,068	16,242
442163	88	WATERWOOD COMM INC	0	130	22	0	1,495	503	1,999
442166	88	WEST TEXAS RURAL TEL	2	714	209	15,001	7,399	3,152	25,551
442168	88	WES-TEX TEL CO-OP	3	1,017	113	23,912	11,885	2,735	38,531
442170	88	XIT RURAL TEL CO-OP	1	307	196	3,843	3,966	3,635	11,443
442262	88	ENMR TEL COOP-TX	1	129	60	6,177	1,386	829	8,392
452171	88	ARIZONA TELEPHONE CO	2	544	162	3,202	5,454	2,945	11,601
452172	88	CITIZENS UTILITIES	42	4,954	10,248	290,163	43,904	137,666	471,734
452173	88	PAPAGO TRIBAL UTIL.	1	161	28	3,360	1,446	654	5,461
452175	88	UNIVERSAL TEL OF SW	1	277	110	7,129	2,678	1,764	11,571
452176	88	VALLEY TEL COOP-AZ	2	590	323	9,562	5,856	6,035	21,452
452177	88	CONTEL OF WEST-AZ	25	5,460	2,809	150,135	53,914	50,286	254,334
452275	88	NAVAJO COMMUN-AZ	8	2,668	2,195	42,374	26,388	27,136	95,899
452302	88	CONTEL CALIF - AZ	5	828	1,118	29,765	9,149	14,311	53,224
461835	88	SUNFLOWER TEL - CO	0	122	50	1,422	1,150	866	3,438
462181	88	BIJOU TEL COOP ASSOC	1	384	73	4,731	3,799	1,670	10,201
462182	88	BLANCA TEL CO	0	143	100	2,062	1,255	1,112	4,428
462184	88	DELTA COUNTY TEL CO	6	833	484	56,340	10,474	11,673	78,487
462185	88	EAGLE TELECOMMUN INC	5	2,092	852	27,039	17,362	11,958	56,359
462186	88	EASTERN SLOPE RURAL	4	1,388	315	22,209	14,284	5,590	42,083
462187	88	EL PASO COUNTY TEL	2	887	159	12,242	9,104	3,742	25,088
462188	88	FARMERS TEL CO - CO	0	104	36	1,268	846	406	2,520
462190	88	HAXTUN TEL CO	1	410	115	7,484	4,388	2,093	13,965
462192	88	BIG SANDY TELCOMM	1	233	36	3,480	2,522	922	6,924
462193	88	NUCLA-NATURITA TEL	1	224	98	5,877	2,347	1,921	10,145
462194	88	NUNN TEL CO	0	96	28	1,281	853	552	2,687
462196	88	PEETZ COOP TEL CO	0	47	31	1,338	587	507	2,431
462199	88	PLAINS COOP TEL ASSN	1	510	124	8,185	4,976	2,043	15,204
462203	88	RYE TELEPHONE CO	1	388	171	7,977	3,684	2,634	14,295
462204	88	COLUMBINE TEL CO	1	189	71	2,431	1,516	1,622	5,569
462207	88	STRASBURG TEL CO	1	359	64	3,945	3,332	1,375	8,652
462208	88	UNIVERSAL TEL CO -CO	4	559	623	34,314	5,924	10,839	51,076
462209	88	WIGGINS TEL ASSOC	1	452	74	5,464	4,474	1,352	11,290
472177	88	CONTEL OF WEST-ID	13	3,295	1,445	71,542	33,338	25,616	130,496
472213	88	ALBION TEL CO INC	1	271	149	6,361	2,496	2,024	10,880

TABLE 4.13

1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS,MSG & SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
472215	88	CAMBRIDGE TEL CO	1	190	66	4,072	2,161	1,195	7,429
472218	88	CUSTER TEL COOP	1	267	171	10,287	2,998	3,233	16,518
472223	88	GEM STATE UTIL-ID	1	374	125	6,545	3,556	1,731	11,832
472225	*	CENTURY TEL OF IDAHO	3	1,115	456	41,392	11,305	7,689	60,385
472226	88	MIDVALE TEL EXCH INC	0	86	32	310	790	401	1,502
472231	88	PROJECT MUTUAL TEL	6	867	750	78,307	8,873	11,001	98,181
472232	88	ROCKLAND TEL CO INC	0	110	33	2,358	959	522	3,839
472233	88	RURAL TEL CO - ID	0	50	16	438	552	307	1,298
472234	88	TROY TELEPHONE CO	1	224	105	3,091	2,029	1,644	6,765
472295	88	SILVER STAR TEL- ID	0	87	42	1,480	1,007	786	3,273
472423	88	INLAND TEL-ID	0	73	26	887	833	402	2,122
482235	88	BLACKFOOT TEL COOP	5	1,916	532	25,133	18,303	9,847	53,283
482241	*	HOT SPRINGS TEL CO	0	120	49	4,452	1,216	827	6,495
482242	88	INTERBEL TEL COOP	1	142	94	6,290	1,275	1,843	9,408
482244	88	LINCOLN TEL CO INC	1	187	61	2,815	1,966	978	5,758
482246	88	MID-RIVERS TEL COOP	6	1,622	538	48,282	18,896	9,349	76,527
482247	88	NEMONT TEL COOP-MT	2	768	298	9,572	6,373	3,726	19,671
482248	88	NORTHERN TEL COOP	1	561	195	6,761	5,681	3,342	15,783
482249	88	NW TEL SYSTEMS, INC.	30	9,706	5,714	137,413	74,765	55,767	267,944
482250	88	PROJECT TEL CO	3	847	282	11,005	9,109	5,149	25,263
482251	88	RANGE TEL COOP-MT	3	828	387	18,886	8,684	5,950	33,520
482254	88	SOUTHERN MONTANA TEL	1	213	70	2,647	2,292	1,534	6,473
482255	88	3-RIVERS TEL COOP	8	2,199	803	48,315	25,028	13,774	87,117
482257	88	TRIANGLE TEL COOP	8	2,512	666	57,901	27,808	11,787	97,496
482258	88	VALLEY RURAL TEL	1	215	49	3,585	2,329	915	6,829
492066	88	DELL TEL CO-OP - NM	0	39	34	1,370	451	550	2,372
492176	88	VALLEY TEL COOP - NM	1	242	234	7,153	2,293	3,797	13,243
492177	88	CONTEL OF WEST - NM	27	6,678	3,030	161,383	63,843	50,576	275,802
492259	88	BACA VALLEY TEL CO	1	135	79	3,342	1,425	1,270	6,038
492262	88	ENMR TEL COOP INC-NM	9	1,473	1,100	65,093	15,360	16,143	96,596
492263	88	LA JICARITA RURAL	1	315	86	16,586	3,281	1,797	21,664
492264	*	LEACO RURAL TEL COOP	1	211	86	7,850	2,144	1,458	11,453
492268	88	WESTERN NEW MEXICO	4	1,067	680	25,447	10,435	8,682	44,564
492270	88	PENASCO VALLEY TEL	2	555	209	9,679	5,462	4,031	19,172
492272	88	ROOSEVELT CNTY RURAL	1	326	176	13,744	3,732	3,226	20,701
492274	88	UNIVERSAL TEL OF SW	3	983	343	19,214	8,687	6,390	34,292
492275	88	NAVAJO COMMUN - NM	3	1,153	774	13,684	8,655	9,246	31,585
502177	88	CONTEL THE WEST - UT	14	3,221	2,599	130,762	30,672	33,175	194,608
502275	88	NAVAJO COMMUN - UT	0	61	150	821	571	1,431	2,823
502277	88	CENTRAL UTAH TEL INC	1	198	44	7,079	2,152	882	10,112
502278	88	EMERY COUNTY FARMERS	2	686	203	28,271	7,086	3,238	38,595
502280	88	KAMAS-WOODLAND TEL	2	497	87	7,595	4,802	1,801	14,198
502284	88	BEEHIVE TEL CO - UT	0	131	48	8,621	1,254	688	10,564
502286	88	SOUTH CENTRAL UTAH	3	487	296	19,181	4,711	4,334	28,226

TABLE 4.13

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS,MSG & SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
502287	88	UINTAH BASIN TEL	2	589	171	17,580	6,463	3,759	27,801
502288	88	UT-WY TELECOM	0	83	78	3,581	934	871	5,386
512251	88	RANGE TEL COOP - WY	1	298	280	11,759	3,404	3,946	19,109
512290	88	UTAH-WYOMING TELECOM	0	32	71	1,442	307	844	2,593
512291	88	DUBOIS TEL EXCHANGE	2	284	267	6,600	2,728	4,024	13,351
512294	*	MEDICINE BOW TEL CO	0	87	35	3,218	879	598	4,695
512295	88	SILVER STAR TEL-WY	1	190	227	5,309	1,336	2,842	9,487
512297	88	UNION TELEPHONE CO	3	550	796	24,826	5,681	10,030	40,536
512299	88	TEL. UTIL. OF WY.	3	566	593	14,791	5,962	7,593	28,346
522404	*	ASOTIN TEL - WA	1	244	100	9,071	2,477	1,685	13,234
522408	88	TEL UTIL OF WA INC	76	30,157	9,954	520,588	283,484	101,228	905,301
522410	88	COWICHE TELEPHONE CO	1	664	97	6,856	5,961	1,494	14,312
522412	88	ELLENSBURG TEL CO	14	2,979	1,901	115,983	35,842	27,215	179,040
522417	*	HAT ISLAND TEL CO	0	3	1	95	26	18	139
522419	88	HOOD CANAL TEL CO	1	270	52	1,498	2,434	953	4,885
522423	88	INLAND TEL CO -WA	1	315	126	8,245	3,154	1,905	13,304
522426	88	KALAMA TEL CO	2	726	342	7,907	5,973	2,772	16,652
522427	88	LEWIS RIVER TEL CO	2	1,074	460	11,053	9,931	6,503	27,488
522431	88	MASHELL TEL CO INC	2	909	141	7,687	8,857	2,574	19,117
522436	88	PENINSULA TELECOMM	4	2,125	653	54,002	24,352	10,527	88,880
522437	88	PIONEER TEL CO	1	224	60	4,042	2,298	874	7,215
522442	88	ST JOHN TEL CO	1	194	57	2,114	2,167	785	5,065
522446	88	TENINO TELEPHONE CO	2	1,048	162	10,987	9,206	3,046	23,239
522447	88	TOLEDO TELEPHONE CO	1	545	167	8,124	4,704	2,640	15,469
522449	88	CONTEL OF THE NW-WA	50	16,106	6,181	393,547	152,409	82,942	628,898
522451	88	WESTERN WAHIAKUM	1	217	109	5,784	2,568	1,476	9,828
522452	88	WHIDBEY TEL CO.	7	1,924	846	43,257	19,839	9,890	72,986
522453	88	YELM TELEPHONE CO	5	2,219	500	38,357	20,724	9,687	68,768
532226	88	MIDVALE TEL EXCH -OR	0	48	22	781	450	334	1,566
532304	88	C P NATIONAL CORP-OR	10	4,014	1,003	51,982	33,980	17,854	103,817
532359	88	BEAVER CREEK COOP	3	862	221	39,396	10,052	4,423	53,871
532361	88	TEL UTIL OF OREGON	36	13,643	4,787	215,164	130,478	51,291	396,934
532362	88	CANBY TEL ASSN	8	3,277	722	61,000	29,485	10,180	100,665
532363	88	CLEAR CREEK MUTUAL	3	706	234	33,872	7,378	4,392	45,642
532364	88	COLTON TEL CO	1	386	86	7,043	4,034	1,659	12,736
532371	88	CASCADE UTIL INC	7	2,023	666	64,579	20,067	11,113	95,759
532375	88	RTI/HALSEY TEL CO	1	559	194	2,639	3,534	2,037	8,210
532376	88	HELIX TEL CO.	0	90	22	440	892	319	1,651
532377	88	HOME TELEPHONE CO	1	145	36	2,306	1,721	597	4,624
532378	88	TRANS-CASCADES TEL	0	30	8	420	420	163	1,003
532383	88	MOLALLA TEL CO.	4	1,890	339	37,248	16,935	5,422	59,605
532385	88	MONROE TELEPHONE CO.	1	323	46	2,951	3,037	900	6,887
532387	88	NEHALEM TEL & TEL	2	516	124	5,655	4,882	1,982	12,519
532388	88	NORTH STATE TEL CO.	0	154	38	1,542	1,489	714	3,744

TABLE 4.13

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS,MSG & SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
532389	88	OREGON TEL CORP	1	594	147	6,485	5,921	2,598	15,004
532392	88	PINE TEL SYSTEM INC.	1	131	75	3,283	1,468	1,411	6,162
532393	88	PIONEER TEL COOP	10	2,665	759	59,302	26,924	15,124	101,350
532397	88	SCIO MUTUAL TEL ASSN	1	552	107	8,376	5,382	2,086	15,843
532404	*	ASOTIN TEL - OR	0	38	16	1,422	388	264	2,075
532449	88	CONTEL OF THE NW- OR	21	7,972	2,156	168,648	77,373	36,882	282,902
532456	88	MALHEUR HOME TEL CO	11	968	2,592	108,628	13,777	34,830	157,235
542301	88	CALAVERAS TEL CO	2	786	78	5,819	7,580	1,455	14,854
542304	88	C P NATIONAL CORP-CA	12	4,720	1,229	64,835	44,913	14,673	124,421
542308	88	CITIZENS UTIL OF CA	57	16,394	4,594	576,962	183,661	72,481	833,104
542311	88	CALIF-OREGON TEL CO	2	367	654	10,280	6,320	6,159	22,759
542313	88	DUCOR TELEPHONE CO	1	297	19	2,258	2,995	411	5,664
542315	88	EVANS TEL CO.	8	4,998	665	50,880	40,596	6,274	97,750
542318	*	FORESTHILL TEL CO.	2	208	85	7,704	2,104	1,431	11,239
542321	*	HAPPY VALLEY TEL CO	2	366	149	13,577	3,708	2,522	19,807
542322	*	HORNITOS TEL CO	0	159	65	5,920	1,617	1,100	8,637
542324	88	KERMAN TELEPHONE CO	4	1,063	163	48,055	13,388	3,385	64,828
542332	88	THE PONDEROSA TEL CO	6	2,473	199	25,500	23,683	3,881	53,064
542334	88	ROSEVILLE TEL CO	65	20,591	5,322	754,711	171,264	68,633	994,608
542338	*	SIERRA TELEPHONE CO	11	1,962	802	72,852	19,897	13,533	106,282
542339	88	THE SISKIYOU TEL CO	3	1,344	382	15,279	14,860	4,530	34,669
542342	88	TUOLUMNE TEL CO	4	2,230	188	19,636	21,677	4,082	45,396
542343	88	THE VOLCANO TEL CO	8	2,727	442	30,399	30,618	6,137	67,154
542346	88	PINNACLES TEL CO	0	204	17	215	1,736	300	2,251
552223	88	GEM STATE UTIL-NV	0	60	89	1,637	606	937	3,180
552233	88	RURAL TEL CO - NV	0	42	17	231	386	358	975
552284	88	BEEHIVE TEL CO - NV	0	40	32	419	107	264	789
552302	88	CONTEL OF CALIF-NV	19	4,197	6,859	107,008	37,095	75,859	219,962
552304	88	CP NATIONAL-NV	12	2,676	4,189	82,610	26,494	48,112	157,217
552349	88	CHURCHILL COUNTY TEL	8	1,362	1,667	66,937	11,328	26,006	104,271
552351	88	LINCOLN CTY TEL SYS	2	403	234	7,591	4,268	3,659	15,518
552353	88	MOAPA VALLEY TEL CO.	2	413	386	15,314	5,313	5,634	26,261
552354	88	NEVADA TEL-TELEGRAPH	3	640	701	13,827	5,491	8,858	28,177
552356	88	RIO VIRGIN TEL CO	1	186	579	6,687	1,410	5,262	13,359
613000	88	ANCHORAGE TEL UTIL	125	12,314	14,085	1,822,367	160,491	336,277	2,319,135
613001	88	ARCTIC SLOPE TEL	1	823	423	8,259	11,048	8,795	28,102
613003	88	BRISTOL BAY TEL COOP	1	213	181	6,021	3,200	2,795	12,017
613004	*	BUSH-TELL INC.	1	68	28	2,512	686	467	3,665
613006	*	COPPER VALLEY TEL	3	885	361	32,838	8,969	6,100	47,907
613007	88	CORDOVA TEL COOP	1	270	248	10,297	2,876	4,501	17,675
613008	88	FAIRBANKS MUNICIPAL	29	2,909	3,165	336,580	36,681	68,451	441,712
613009	88	GTE ALASKA INC.	14	3,015	1,750	89,551	37,478	31,643	158,672
613010	88	GLACIER STATE TEL CO	30	5,123	3,800	298,286	54,594	81,970	434,850
613011	88	INTERIOR TEL CO INC	3	794	762	12,525	8,101	11,315	31,940

TABLE 4.13

1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 LOOPS,MSG & SLU (IN THOUSANDS)

FCODE	YR	CARRIER	NO. LOOPS	ST MSGS	IS MSG	LOC SLU	ST SLU	IS SLU	TOT SLU
613012	88	JUNEAU & DOUGLAS TEL	16	1,907	2,014	151,378	25,648	42,514	219,539
613013	88	KETCHIKAN PUBLIC UT	7	855	1,546	25,183	855	1,546	27,583
613015	88	MATANUSKA TEL ASSOC	27	5,715	1,903	253,473	62,355	59,614	375,442
613016	*	MUKLUK TEL CO INC	1	218	89	8,105	2,214	1,506	11,824
613018	88	NUSHAGAK TEL COOP	1	418	183	10,683	4,500	3,381	18,564
613019	*	OTZ TEL COOPERATIVE	2	363	148	13,492	3,685	2,506	19,683
613020	88	SITKA TELEPHONE CO	8	2,315	1,567	52,531	23,162	25,591	101,285
613022	88	TEL UTIL OF ALASKA	2	213	453	21,283	1,967	12,167	35,388
613023	88	UNITED UTILITIES INC	3	1,303	169	20,873	12,846	3,511	37,230
613025	88	YUKON TEL CO INC	0	159	33	1,610	1,598	664	3,871
633200	*	PUERTO RICO COMM	99	15,430	6,304	572,816	156,444	106,403	835,663
643300	88	VIRGIN ISLANDS TEL	45	0	12,288	902,981	0	173,158	1,076,139
584		NONTIER 1 CO's TOTAL	5,286	1,377,364	604,602	48,918,988	13,984,881	9,728,372	72,632,235
888888	88	AVERAGE SCHEDULE CO.	2,859	678,908	277,354	25,202,659	6,883,185	4,681,495	36,767,339
TOTAL		NONTIER 1 & AV. SCH.	8,145	2,056,272	881,956	74,121,647	20,868,066	14,409,867	109,399,574

* - COMPANIES WHO NECA COMPUTED DATA FOR

TABLE 4.14

 1987 TIER 1 COMPANIES NETWORK USAGE
 DEM MINUTES (IN THOUSANDS) AND FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	W DEM
105111	87	NEW ENGLAND TEL-ME	0.1284	0.2865	5,180,211	1,061,955	1,065,457	7,307,623	0.1458	0.1943
115112	87	NEW ENGLAND TEL-MA	0.1282	0.2721	43,737,037	7,992,170	8,886,005	60,615,213	0.1466	0.1618
125113	87	NEW ENGLAND TEL-NH	0.2149	0.3849	5,175,441	1,077,700	1,983,773	8,236,914	0.2408	0.2981
135200	87	SOUTHERN NEW ENGLAND	0.1690	0.3166	23,299,009	4,069,445	6,000,325	33,368,779	0.1798	0.2086
145115	87	NEW ENGLAND TEL-VT	0.1976	0.3921	2,241,858	433,534	804,307	3,479,699	0.2311	0.3363
150096	87	CONTEL OF NY, INC	0.1088	0.2340	1,641,826	663,730	284,486	2,590,042	0.1098	0.1549
150121	87	ROCHESTER TEL CORP	0.0885	0.2230	6,133,394	682,623	661,405	7,477,422	0.0885	0.1286
155130	87	NEW YORK TEL CO	0.1166	0.2742	145,764,728	8,697,681	25,544,060	180,006,470	0.1419	0.1608
160138	87	UNITED TEL - NJ, INC	0.1892	0.3190	742,274	734,198	345,930	1,822,402	0.1898	0.2132
165120	87	NEW JERSEY BELL	0.1800	0.3015	45,717,784	18,813,429	14,823,791	79,355,005	0.1868	0.2082
170169	87	GTE NORTH INC. - PA	0.0945	0.2277	5,621,626	1,361,683	1,169,560	8,152,869	0.0000	0.1435
170209	87	UTC OF PENNSYLVANIA	0.1077	0.2277	2,604,262	764,709	412,186	3,781,157	0.1090	0.1496
175000	87	BELL OF PENNSYLVANIA	0.1149	0.2239	71,045,728	8,217,258	10,901,863	90,164,848	0.1209	0.1431
185030	87	C & P TEL CO OF MD	0.1171	0.2232	42,774,836	2,367,555	6,262,652	51,405,043	0.1218	0.1570
190233	87	CONTEL OF VIRGINIA	0.1694	0.3061	3,463,577	1,002,930	932,523	5,399,031	0.1727	0.2132
190254	87	CENDEL OF VIRGINIA	0.1397	0.2814	2,376,022	419,886	452,836	3,248,744	0.1394	0.1995
190479	87	GTE SOUTH INC. - VA	0.1006	0.2129	438,165	112,393	115,823	666,380	0.0000	0.1738
190567	87	UNITED INTER-MT-VA	0.1161	0.2202	988,220	119,989	145,611	1,253,820	0.1161	0.1810
195040	87	C & P TEL CO OF VA	0.1278	0.2645	36,940,347	2,883,602	5,986,577	45,810,525	0.1307	0.1482
200479	87	GTE SOUTH INC. - WV	0.1546	0.2825	766,423	221,576	316,167	1,304,166	0.0000	0.2424
205050	87	C & P TEL CO OF WV	0.1018	0.2239	10,590,141	970,752	1,394,003	12,954,895	0.1076	0.1435
210328	87	GTE FLORIDA INC.	0.1528	0.3876	15,811,575	3,609,310	4,729,525	24,150,410	0.0000	0.1958
210340	87	CENDEL OF FLORIDA	0.1581	0.3320	2,640,565	399,033	527,055	3,566,654	0.1478	0.2097
210341	87	UTC OF FLORIDA	0.1643	0.4386	8,121,466	1,444,653	1,880,835	11,446,955	0.1685	0.2102
215191	87	SOUTHERN BELL-FL	0.1484	0.3357	55,212,151	7,776,320	11,601,631	74,590,102	0.1555	0.1625
220479	87	GTE SOUTH INC.- GA	0.0879	0.2253	2,373,516	922,261	581,867	3,877,644	0.0000	0.1501
225192	87	SOUTHERN BELL-GA	0.1265	0.2793	45,029,727	3,437,608	7,463,353	55,930,688	0.1334	0.1417
230470	87	CAROLINA TEL & TEL	0.1270	0.2432	9,237,720	1,504,349	1,668,799	12,410,868	0.1345	0.1780
230471	87	CENDEL OF NC	0.0917	0.2132	2,445,714	413,781	288,353	3,147,849	0.0916	0.1321
230479	87	GTE SOUTH INC - NC	0.1461	0.2952	1,655,436	431,959	555,970	2,643,365	0.0000	0.2103
235193	87	SOUTHERN BELL-NC	0.1239	0.2456	22,618,654	3,110,609	3,999,832	29,729,095	0.1345	0.1482
240479	87	GTE SOUTH INC. - SC	0.1667	0.3093	1,570,874	481,426	722,631	2,774,931	0.0000	0.2604
240506	87	UTC OF THE CAROLINAS	0.1227	0.2812	861,978	115,142	136,633	1,113,753	0.1227	0.1816
245194	87	SOUTHERN BELL-SC	0.1161	0.2280	17,205,990	1,465,134	2,684,474	21,355,599	0.1257	0.1455
250293	87	GTE SOUTH INC. - AL	0.1320	0.2967	1,439,790	416,024	488,325	2,344,140	0.0000	0.2083
255181	87	SO CENTRAL BELL-AL	0.0953	0.2184	26,752,690	1,936,041	3,220,343	31,909,075	0.1009	0.1137
260407	87	GTE SOUTH INC. - KY	0.1261	0.2528	4,182,317	944,820	1,231,780	6,358,917	0.0000	0.1937
265061	87	CINCINNATI BELL-KY	0.0930	0.1603	2,391,770	82,980	254,409	2,729,160	0.0932	0.1138
265182	87	SO CENTRAL BELL-KY	0.1001	0.2160	15,496,405	1,245,239	2,016,297	18,757,941	0.1075	0.1317
275183	87	SO CENTRAL BELL-LA	0.0882	0.2142	31,389,489	2,751,916	3,534,726	37,676,131	0.0938	0.1044
285184	87	SO CENTRAL BELL-MS	0.1135	0.2494	15,261,725	1,690,186	2,296,179	19,248,090	0.1193	0.1492
290479	87	GTE SOUTH INC. - TN	0.1002	0.2376	607,348	198,655	175,574	981,577	0.0000	0.1789
290567	87	UNITED INTER-MT-TN	0.1132	0.2269	2,575,775	295,728	366,515	3,238,018	0.1132	0.1611
295185	87	SO. CENTRAL BELL -TN	0.1096	0.2302	34,701,545	2,739,602	5,010,568	42,451,715	0.1180	0.1276
300615	87	GTE NORTH INC. - OH	0.0930	0.2319	7,502,607	2,792,925	1,692,922	11,988,454	0.0000	0.1412
300630	87	CENDEL OF OHIO	0.1027	0.2003	682,900	192,054	111,711	986,665	0.1132	0.1484

TABLE 4.14

 1987 TIER 1 COMPANIES NETWORK USAGE
 DEM MINUTES (IN THOUSANDS) AND FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	W DEM
300661	87	UTC OF OHIO	0.0917	0.2251	4,694,468	1,081,316	675,871	6,451,654	0.1048	0.1451
305062	87	CINCINNATI BELL-OH	0.1093	0.2105	11,775,709	583,430	1,646,406	14,005,546	0.1176	0.1325
305150	87	OHIO BELL TEL CO	0.1069	0.2104	50,686,807	4,912,200	7,121,220	62,720,227	0.1135	0.1322
310695	87	GTE NORTH INC. - MI	0.0860	0.2065	4,776,359	2,754,811	1,109,094	8,640,265	0.0000	0.1284
315090	87	MICHIGAN BELL TEL CO	0.0908	0.1919	59,068,197	9,755,775	7,367,335	76,191,307	0.0967	0.1109
320772	87	GTE NORTH INC. - IN	0.1219	0.3009	7,109,629	1,599,685	1,870,382	10,579,696	0.0000	0.1768
320832	87	UTC OF INDIANA	0.1147	0.2946	1,510,265	399,142	258,786	2,168,192	0.1194	0.1754
325080	87	INDIANA BELL TEL CO	0.1159	0.2391	23,476,384	2,176,351	3,641,181	29,293,916	0.1243	0.1478
330886	87	GTE NORTH INC. - WI	0.1036	0.2583	2,926,291	1,467,896	845,328	5,239,516	0.0000	0.1613
335220	87	WISCONSIN BELL	0.1169	0.2276	21,117,002	2,301,000	3,403,980	26,821,983	0.1269	0.1431
340985	87	CENDEL OF ILLINOIS	0.1702	0.3001	1,992,356	284,171	509,716	2,786,243	0.1829	0.2155
341015	87	GTE NORTH INC. - IL	0.1013	0.2553	5,153,578	3,181,692	1,508,036	9,843,306	0.0000	0.1532
345070	87	ILLINOIS BELL TEL CO	0.1266	0.2651	78,156,842	3,724,651	12,390,143	94,271,636	0.1314	0.1486
351186	87	GTE NORTH INC. - IA	0.1156	0.2767	778,654	578,463	288,609	1,645,726	0.0000	0.1754
351317	87	UTC OF IOWA	0.1260	0.2562	483,472	160,151	104,281	747,904	0.1394	0.1935
355141	87	NORTHWESTERN BELL-IA	0.1536	0.2762	10,603,761	1,598,836	2,581,390	14,783,988	0.1746	0.2210
361186	87	GTE NORTH INC. - MN	0.1307	0.2578	20,502	19,866	9,761	50,128	0.0000	0.1947
361367	87	CENDEL OF MN	0.1103	0.2383	808,239	140,215	104,388	1,052,843	0.0991	0.1505
361456	87	UTC OF MINNESOTA	0.0813	0.2060	1,008,390	183,728	108,930	1,301,048	0.0837	0.1199
365142	87	NORTHWESTERN BELL-MN	0.1275	0.2655	24,019,190	1,993,295	4,077,297	30,089,782	0.1355	0.1625
371186	87	GTE NORTH INC. - NE	0.1257	0.2664	359,119	231,157	156,462	746,737	0.0000	0.2095
371568	87	LINCOLN TEL & TEL CO	0.1362	0.3000	2,309,279	420,001	430,323	3,159,603	0.1362	0.1556
371595	87	UTC OF THE WEST-NE	0.1567	0.3516	235,010	25,482	46,193	306,686	0.1506	0.2363
375143	87	NORTHWESTERN BELL-NE	0.1801	0.3463	6,062,108	554,575	1,547,053	8,163,736	0.1895	0.2266
385144	87	NORTHWESTERN BELL-ND	0.1557	0.3056	2,730,628	394,960	623,182	3,748,771	0.1662	0.2342
395145	87	NORTHWESTERN BELL-SD	0.1779	0.3340	2,480,736	433,452	692,265	3,606,453	0.1920	0.2524
401728	87	UTC OF ARKANSAS	0.1700	0.3218	124,150	33,515	32,285	189,950	0.1700	0.2640
402080	87	GTE SOUTHWEST INC-AR	0.1244	0.2797	701,957	303,101	265,735	1,270,793	0.0000	0.2091
405211	87	SOUTHWESTERN BELL-AR	0.1153	0.2766	9,810,591	1,340,548	1,831,989	12,983,128	0.1411	0.1695
411842	87	UTC OF KANSAS	0.1871	0.4122	454,336	153,469	141,626	749,432	0.1890	0.2501
415214	87	SOUTHWESTERN BELL-KS	0.1299	0.2876	12,743,843	1,632,602	2,591,845	16,968,289	0.1527	0.1804
421186	87	GTE NORTH INC. - MO	0.1547	0.2961	850,502	472,691	360,789	1,683,982	0.0000	0.2142
421957	87	UTC OF MISSOURI	0.1485	0.3255	1,362,674	432,745	319,768	2,115,187	0.1512	0.2062
425213	87	SOUTHWESTERN BELL-MO	0.1001	0.2657	32,999,818	2,239,300	5,172,300	40,411,417	0.1280	0.1458
432080	87	GTE SOUTHWEST INC-OK	0.1574	0.3102	962,216	516,503	376,338	1,855,056	0.0000	0.2029
435215	87	SOUTHWESTERN BELL-OK	0.1173	0.3042	16,483,273	2,289,076	2,921,445	21,693,794	0.1347	0.1596
442080	87	GTE SOUTHWEST INC-TX	0.1174	0.2503	12,107,146	4,878,705	3,022,502	20,008,353	0.0000	0.1511
442084	87	UTC OF TEXAS INC	0.0731	0.1975	820,475	351,163	92,894	1,264,533	0.0735	0.0994
442114	87	CENDEL OF TEXAS	0.1526	0.3918	1,317,095	313,398	294,646	1,925,139	0.1531	0.1899
442154	87	CONTEL OF TEXAS	0.0927	0.2271	1,232,615	609,538	188,446	2,030,598	0.0928	0.1202
445216	87	SOUTHWESTERN BELL-TX	0.0850	0.2385	101,625,439	13,247,392	13,112,488	127,985,318	0.1025	0.1139
455101	87	MOUNTAIN BELL - AZ	0.1622	0.3898	22,823,158	1,965,380	5,054,728	29,843,266	0.1694	0.1936
465102	87	MOUNTAIN BELL-CO	0.1676	0.3849	23,120,086	2,601,892	5,308,743	31,030,721	0.1711	0.1986
472416	87	GTE NORTHWEST INC-ID	0.2131	0.4918	638,503	216,016	402,185	1,256,704	0.0000	0.3200
475103	87	MOUNTAIN BELL-ID	0.1732	0.3276	3,406,568	566,591	867,322	4,840,482	0.1792	0.2247
475162	87	PACIFIC NW BELL-ID	0.1676	0.3465	276,238	38,534	63,971	378,743	0.1689	0.2270

TABLE 4.14

 1987 TIER 1 COMPANIES NETWORK USAGE
 DEM MINUTES (IN THOUSANDS) AND FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	W DEM
482416	87	GTE NORTHWEST INC-MT	0.1728	0.4115	58,406	21,273	31,518	111,197	0.0000	0.2834
485104	87	MOUNTAIN BELL-MT	0.1645	0.3963	2,902,217	643,321	717,032	4,262,570	0.1682	0.2360
492080	87	GTE SOUTHWEST INC-NM	0.1696	0.4026	410,531	82,013	148,696	641,240	0.0000	0.2319
495105	87	MOUNTAIN BELL-NM	0.1528	0.3330	7,569,161	723,934	1,640,856	9,933,951	0.1652	0.2118
505107	87	MOUNTAIN BELL-UT	0.1302	0.3021	10,123,151	985,369	1,739,118	12,847,637	0.1354	0.1666
511595	87	UTC OF THE WEST-WY	0.2301	0.4378	44,203	7,395	15,505	67,102	0.2311	0.3504
515108	87	MOUNTAIN BELL-WY	0.2237	0.4878	1,894,367	347,691	673,240	2,915,298	0.2309	0.3076
522400	87	UTC OF THE NW-WA	0.1408	0.3672	330,013	153,238	79,263	562,514	0.1409	0.1839
522416	87	GTE NORTHWEST INC-WA	0.1087	0.3081	5,549,899	1,517,504	1,189,129	8,256,531	0.0000	0.1440
525161	87	PACIFIC NW BELL-WA	0.1340	0.2893	21,452,707	3,153,277	4,023,872	28,629,855	0.1405	0.1661
532400	87	UTC OF THE NW - OR	0.1437	0.3782	330,837	123,686	76,421	530,944	0.1439	0.1979
532416	87	GTE NORTHWEST INC-OR	0.1269	0.3516	2,952,710	730,289	790,262	4,473,261	0.0000	0.1767
535163	87	PACIFIC NW BELL-OR	0.1558	0.3082	10,694,863	1,768,698	2,468,691	14,932,252	0.1653	0.1931
542302	87	CONTEL OF CALIFORNIA	0.1029	0.2699	1,884,014	924,522	327,293	3,135,829	0.1044	0.1332
542319	87	GTC OF CALIFORNIA	0.0893	0.2492	33,864,081	14,999,242	5,959,464	54,822,787	0.0000	0.1087
542344	87	WEST COAST TEL OF CA	0.1173	0.3615	72,489	40,508	23,779	136,776	0.0000	0.1739
545170	87	PACIFIC BELL	0.0851	0.2497	148,611,270	42,655,764	20,694,757	211,961,791	0.0976	0.1084
552348	87	CENTEL OF NV	0.2356	0.5040	4,307,118	76,155	1,246,217	5,629,490	0.2214	0.2983
555173	87	NEVADA BELL	0.2029	0.5323	2,103,433	164,440	586,770	2,854,643	0.2055	0.2342
565010	87	DIAMOND STATE TEL	0.1930	0.3214	5,088,713	225,821	1,302,487	6,617,022	0.1968	0.2304
575020	87	C & P TEL CO OF WASH	0.1764	0.3907	13,580,930	0	2,870,833	16,451,763	0.1745	0.1962
585114	87	NEW ENGLAND TEL - RI	0.1506	0.2776	6,604,554	484,153	1,529,569	8,618,276	0.1775	0.2117
623100	87	GTE HAWAIIAN TEL. CO	0.1378	0.2789	7,829,493	536,947	1,953,169	10,319,610	0.0000	0.1893
633201	87	PUERTO RICO TEL CO	0.0889	0.3250	7,574,335	1,305,727	866,331	9,746,394	0.0889	0.1171
116		TIER 1 CO'S TOTALS	0.1149		1,649,049,789	249,895,980	292,223,576	2,191,169,353	0.1334	

- GTE'S DEM MINUTES ARE WEIGHTED

TABLE 4.15

1988 TIER 1 COMPANIES NETWORK USAGE DATA
DEM MINUTES (IN THOUSANDS) AND VARIOUS FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	TR DEM
105111	88	NEW ENGLAND TEL-ME	0.1544	0.2804	5,170,246	1,170,626	1,148,548	7,489,420	0.1534	0.2084
115112	88	NEW ENGLAND TEL-MA	0.1498	0.2684	45,990,895	8,806,361	9,893,801	64,691,056	0.1529	0.1883
125113	88	NEW ENGLAND TEL-NH	0.2198	0.3625	5,733,233	1,091,628	1,960,012	8,784,874	0.2231	0.3320
135200	88	SOUTHERN NEW ENGLAND	0.1758	0.3055	23,577,979	4,431,848	6,393,644	34,403,472	0.1858	0.2446
145115	88	NEW ENGLAND TEL-VT	0.2258	0.3684	2,338,881	474,810	882,442	3,696,133	0.2387	0.3512
150096	88	CONTEL OF NY, INC	0.1216	0.2331	1,713,374	719,980	340,644	2,773,998	0.1228	0.1875
150121	88	ROCHESTER TEL CORP	0.0939	0.2323	6,508,077	713,346	748,497	7,969,920	0.0939	0.1731
155130	88	NEW YORK TEL CO	0.1427	0.2702	151,437,766	8,434,233	27,427,941	187,299,940	0.1464	0.2126
160138	88	UNITED TEL - NJ, INC	0.1964	0.3535	797,179	788,225	389,239	1,974,643	0.1971	0.3159
165120	88	NEW JERSEY BELL	0.1914	0.2929	48,240,339	20,072,705	16,440,538	84,753,583	0.1940	0.2460
170169	88	GTE NORTH INC. - PA	0.1036	0.2322	5,787,559	936,900	827,485	7,551,945	0.1096	0.1907
170209	88	UTC OF PENNSYLVANIA	0.1186	0.2311	2,657,876	836,643	474,525	3,969,044	0.1196	0.1865
175000	88	BELL OF PENNSYLVANIA	0.1238	0.2282	73,441,999	8,817,006	12,042,663	94,301,668	0.1277	0.1700
185030	88	C & P TEL CO OF MD	0.1236	0.2276	45,467,878	2,465,447	6,876,598	54,809,922	0.1255	0.1834
190233	88	CONTEL OF VIRGINIA	0.1850	0.2967	3,842,764	769,226	1,069,212	5,681,203	0.1882	0.2797
190254	88	CENTEL OF VIRGINIA	0.1536	0.2752	2,445,933	513,391	536,060	3,495,384	0.1534	0.2497
190479	88	GTE SOUTH INC. - VA	0.1203	0.2190	449,105	59,764	69,822	578,692	0.1207	0.2021
190567	88	UNITED INTER-MT-VA	0.1267	0.2268	1,057,040	138,648	175,524	1,371,213	0.1280	0.0128
195040	88	C & P TEL CO OF VA	0.1299	0.2620	39,451,744	3,091,226	6,477,902	49,020,872	0.1321	0.1906
200479	88	GTE SOUTH INC. - WV	0.1702	0.2771	788,124	114,923	189,411	1,092,458	0.1734	0.2843
205050	88	C & P TEL CO OF WV	0.1051	0.2282	10,671,638	933,640	1,401,979	13,007,257	0.1078	0.1739
210328	88	GTE FLORIDA INC.	0.1644	0.3659	17,572,539	2,836,995	4,072,641	24,482,175	0.1664	0.3047
210340	88	CENTEL OF FLORIDA	0.1586	0.3146	2,893,816	535,046	662,911	4,091,773	0.1620	0.2989
210341	88	UTC OF FLORIDA	0.1714	0.4072	8,306,678	1,469,857	2,095,683	11,872,218	0.1765	0.3755
215191	88	SOUTHERN BELL-FL	0.1635	0.3214	59,871,908	8,308,346	13,643,242	81,823,496	0.1667	0.2524
220479	88	GTE SOUTH INC.- GA	0.0996	0.2294	2,490,992	532,106	344,133	3,367,232	0.1022	0.1884
225192	88	SOUTHERN BELL-GA	0.1325	0.2744	48,657,455	3,735,342	8,219,215	60,612,012	0.1356	0.2064
230470	88	CAROLINA TEL & TEL	0.1420	0.2465	9,407,177	1,682,982	1,881,314	12,971,473	0.1450	0.2103
230471	88	CENTEL OF NC	0.1040	0.2193	2,443,238	472,495	338,303	3,254,036	0.1040	0.1732
230479	88	GTE SOUTH INC - NC	0.1420	0.2876	1,857,605	341,334	397,962	2,596,902	0.1532	0.2799
235193	88	SOUTHERN BELL-NC	0.1306	0.2463	23,703,808	3,374,615	4,292,968	31,371,391	0.1368	0.2023
240479	88	GTE SOUTH INC. - SC	0.1756	0.2994	1,610,586	279,934	401,653	2,292,173	0.1752	0.3005
240506	88	UTC OF THE CAROLINAS	0.1292	0.2760	931,414	137,961	161,109	1,230,484	0.1309	0.0131
245194	88	SOUTHERN BELL-SC	0.1248	0.2317	18,058,469	1,642,023	2,922,659	22,623,151	0.1292	0.1989
250293	88	GTE SOUTH INC. - AL	0.1337	0.2889	1,446,613	237,824	275,057	1,959,494	0.1404	0.2655
255181	88	SO CENTRAL BELL-AL	0.1003	0.2236	28,186,070	2,046,430	3,476,566	33,709,067	0.1031	0.1592
260407	88	GTE SOUTH INC. - KY	0.1180	0.2523	4,527,535	581,072	711,896	5,820,503	0.1223	0.2308
265061	88	CINCINNATI BELL-KY	0.0981	0.1753	2,485,431	95,914	280,928	2,862,273	0.0945	0.1242
265182	88	SO CENTRAL BELL-KY	0.1080	0.2217	15,989,331	1,312,222	2,194,985	19,496,537	0.1126	0.1631
275183	88	SO CENTRAL BELL-LA	0.0978	0.2202	32,079,361	2,958,422	3,916,221	38,954,004	0.1005	0.1481
285184	88	SO CENTRAL BELL-MS	0.1190	0.2495	16,052,542	1,750,209	2,459,693	20,262,444	0.1214	0.1941
290479	88	GTE SOUTH INC. - TN	0.1134	0.2397	625,314	107,562	101,296	834,172	0.1214	0.2332
290567	88	UNITED INTER-MT-TN	0.1134	0.2308	2,717,038	368,136	402,956	3,488,130	0.1155	0.0116
295185	88	SO. CENTRAL BELL -TN	0.1153	0.2335	35,771,654	3,152,599	5,230,806	44,155,059	0.1185	0.1667

TABLE 4.15

 1988 TIER 1 COMPANIES NETWORK USAGE DATA
 DEM MINUTES (IN THOUSANDS) AND VARIOUS FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	TR DEM
300615	88	GTE NORTH INC. - OH	0.1024	0.2348	7,504,841	1,724,492	1,076,555	10,305,888	0.1045	0.1805
300630	88	CENTEL OF OHIO	0.1067	0.2053	719,943	200,121	116,759	1,036,823	0.1126	0.1540
300661	88	UTC OF OHIO	0.1048	0.2292	4,433,458	1,546,362	1,077,508	7,057,328	0.1527	0.1897
305062	88	CINCINNATI BELL-OH	0.1033	0.2170	12,735,691	524,896	1,599,174	14,859,762	0.1077	0.1792
305150	88	OHIO BELL TEL CO	0.1079	0.2170	53,050,399	4,940,987	7,217,808	65,209,194	0.1107	0.1547
310695	88	GTE NORTH INC. - MI	0.0965	0.2138	4,881,664	1,685,092	735,280	7,302,035	0.1007	0.1648
315090	88	MICHIGAN BELL TEL CO	0.0917	0.2015	64,042,770	9,998,066	7,780,060	81,820,896	0.0951	0.1364
320772	88	GTE NORTH INC. - IN	0.1465	0.2926	6,748,137	1,223,797	1,472,036	9,443,970	0.1559	0.2781
320832	88	UTC OF INDIANA	0.1286	0.2872	1,530,093	456,130	304,130	2,290,353	0.1328	0.2467
325080	88	INDIANA BELL TEL CO	0.1220	0.2409	24,521,415	2,334,536	3,921,526	30,777,477	0.1274	0.1811
330886	88	GTE NORTH INC. - WI	0.1230	0.2569	2,919,185	969,498	608,093	4,496,776	0.1352	0.2272
335220	88	WISCONSIN BELL	0.1205	0.2313	22,930,716	2,583,932	3,681,895	29,196,542	0.1261	0.1714
340985	88	CENTEL OF ILLINOIS	0.1917	0.2925	2,044,005	332,189	769,385	3,145,580	0.2446	0.2663
341015	88	GTE NORTH INC. - IL	0.1136	0.2544	5,081,064	1,938,746	1,006,311	8,026,120	0.1254	0.2083
345070	88	ILLINOIS BELL TEL CO	0.1396	0.2626	79,701,519	3,920,619	13,901,630	97,523,768	0.1425	0.1995
351186	88	GTE NORTH INC. - IA	0.1233	0.2723	809,794	320,625	165,780	1,296,199	0.1279	0.2181
351317	88	UTC OF IOWA	0.1362	0.2546	490,593	166,668	107,769	765,029	0.1409	0.2082
355141	88	NORTHWESTERN BELL-IA	0.1616	0.2718	11,107,424	1,615,811	2,674,704	15,397,939	0.1737	0.2345
361186	88	GTE NORTH INC. - MN	0.1352	0.2565	20,526	9,505	4,695	34,725	0.1352	0.2447
361367	88	CENTEL OF MN	0.1247	0.2403	875,037	134,336	145,600	1,154,974	0.1261	0.1958
361456	88	UTC OF MINNESOTA	0.0901	0.2133	1,085,235	202,320	135,359	1,422,914	0.0951	0.1577
365142	88	NORTHWESTERN BELL-MN	0.1306	0.2630	25,903,177	2,049,642	4,359,844	32,312,664	0.1349	0.1978
371186	88	GTE NORTH INC. - NE	0.1303	0.2635	356,599	115,778	86,885	559,262	0.1554	0.2536
371568	88	LINCOLN TEL & TEL CO	0.1534	0.2917	2,306,845	441,263	497,899	3,246,007	0.1534	0.2440
371595	88	UTC OF THE WEST-NE	0.1769	0.3302	243,016	27,955	61,219	332,190	0.1843	0.3372
375143	88	NORTHWESTERN BELL-NE	0.1936	0.3302	6,331,689	549,802	1,701,445	8,582,937	0.1982	0.2953
385144	88	NORTHWESTERN BELL-ND	0.1577	0.2963	2,912,437	408,728	650,170	3,971,335	0.1637	0.2569
395145	88	NORTHWESTERN BELL-SD	0.1874	0.3200	2,596,931	453,191	749,401	3,799,523	0.1972	0.2822
401728	88	UTC OF ARKANSAS	0.1752	0.3852	132,655	36,034	35,640	204,329	0.1744	0.3147
402080	88	GTE SOUTHWEST INC-AR	0.1381	0.2748	690,485	168,249	154,489	1,013,222	0.1525	0.1777
405211	88	SOUTHWESTERN BELL-AR	0.1172	0.2722	10,005,416	1,646,571	1,903,279	13,555,265	0.1404	0.2116
411842	88	UTC OF KANSAS	0.2036	0.3852	465,150	164,309	163,297	792,755	0.2060	0.3449
415214	88	SOUTHWESTERN BELL-KS	0.1406	0.2813	13,247,612	1,686,542	2,851,965	17,786,119	0.1603	0.2356
421186	88	GTE NORTH INC. - MO	0.1671	0.2885	918,647	289,441	254,248	1,462,336	0.1739	0.2636
421957	88	UTC OF MISSOURI	0.1550	0.3127	1,377,874	570,834	361,993	2,310,702	0.1567	0.2768
425213	88	SOUTHWESTERN BELL-MO	0.1104	0.2631	33,544,178	2,359,208	5,542,423	41,445,809	0.1337	0.1921
432080	88	GTE SOUTHWEST INC-OK	0.1544	0.3002	952,636	273,991	231,162	1,457,789	0.1586	0.2678
435215	88	SOUTHWESTERN BELL-OK	0.1270	0.2952	16,608,881	2,314,066	3,077,195	22,000,142	0.1399	0.2204
442080	88	GTE SOUTHWEST INC-TX	0.1154	0.2504	12,190,081	2,898,438	2,007,848	17,096,367	0.1174	0.2031
442084	88	UTC OF TEXAS INC	0.0804	0.2014	858,521	379,224	109,398	1,347,143	0.0812	0.1421
442114	88	CENTEL OF TEXAS	0.1445	0.3342	1,593,857	271,292	317,580	2,182,728	0.1455	0.3073
442154	88	CONTEL OF TEXAS	0.0997	0.2306	1,190,172	605,218	210,629	2,006,019	0.1050	0.1761
445216	88	SOUTHWESTERN BELL-TX	0.0927	0.2405	104,555,150	12,480,527	13,894,913	130,930,590	0.1061	0.1536
455101	88	MOUNTAIN BELL - AZ	0.1650	0.3665	25,503,364	1,599,902	5,461,703	32,564,969	0.1677	0.2727

TABLE 4.15

1988 TIER 1 COMPANIES NETWORK USAGE DATA
DEM MINUTES (IN THOUSANDS) AND VARIOUS FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	TR DEM
465102	88	MOUNTAIN BELL-CO	0.1689	0.3624	25,496,926	2,010,726	5,670,171	33,177,822	0.1709	0.2790
472416	88	GTE NORTHWEST INC-ID	0.2270	0.4520	675,467	116,412	243,779	1,035,657	0.2354	0.4336
475103	88	MOUNTAIN BELL-ID	0.1724	0.3147	3,695,718	525,897	897,754	5,119,369	0.1754	0.2715
475162	88	PACIFIC NW BELL-ID	0.1707	0.3304	302,434	41,193	71,955	415,582	0.1731	0.2860
482416	88	GTE NORTHWEST INC-MT	0.1913	0.3843	53,990	9,762	15,076	78,827	0.1913	0.3839
485104	88	MOUNTAIN BELL-MT	0.1698	0.3719	3,206,632	666,435	811,873	4,684,940	0.1733	0.3282
492080	88	GTE SOUTHWEST INC-NM	0.1854	0.3971	381,367	53,425	99,826	534,618	0.1867	0.4254
495105	88	MOUNTAIN BELL-NM	0.1474	0.3173	8,155,609	685,728	1,579,956	10,421,294	0.1516	0.2512
505107	88	MOUNTAIN BELL-UT	0.1377	0.2935	10,953,370	896,641	1,953,924	13,803,935	0.1415	0.2312
511595	88	UTC OF THE WEST-WY	0.2396	0.4065	47,675	7,932	17,759	73,366	0.2421	0.4823
515108	88	MOUNTAIN BELL-WY	0.2244	0.4481	2,084,072	322,988	710,985	3,118,045	0.2280	0.3776
522400	88	UTC OF THE NW-WA	0.1390	0.3568	333,244	164,342	80,306	577,892	0.1390	0.2760
522416	88	GTE NORTHWEST INC-WA	0.1233	0.2977	6,135,966	1,226,662	1,107,826	8,470,454	0.1308	0.2352
525161	88	PACIFIC NW BELL-WA	0.1386	0.2828	22,772,088	3,248,722	4,322,228	30,343,039	0.1424	0.2176
532400	88	UTC OF THE NW - OR	0.1609	0.3477	341,855	138,288	95,019	575,161	0.1652	0.3445
532416	88	GTE NORTHWEST INC-OR	0.1559	0.3385	2,924,757	510,407	683,653	4,118,817	0.1660	0.2959
535163	88	PACIFIC NW BELL-OR	0.1558	0.2985	11,690,042	1,816,963	2,614,618	16,121,623	0.1622	0.2287
542302	88	CONTEL OF CALIFORNIA	0.1101	0.2523	2,065,983	1,039,027	388,168	3,493,178	0.1111	0.2038
542319	88	GTC OF CALIFORNIA	0.1060	0.2493	32,124,937	12,855,801	5,505,535	50,486,274	0.1091	0.1820
542344	88	WEST COAST TEL OF CA	0.1335	0.3425	73,058	27,187	15,561	115,807	0.1344	0.2557
545170	88	PACIFIC BELL	0.0855	0.2497	145,080,500	44,299,457	19,974,529	209,354,485	0.0954	0.0095
552348	88	CENTEL OF NV	0.2344	0.4616	5,311,634	125,232	1,678,475	7,115,341	0.2359	0.4852
555173	88	NEVADA BELL	0.2302	0.4852	2,124,296	263,747	795,376	3,183,420	0.2499	0.3760
565010	88	DIAMOND STATE TEL	0.2021	0.3095	5,404,596	260,627	1,444,954	7,110,178	0.2032	0.2734
575020	88	C & P TEL CO OF WASH	0.1418	0.3673	13,318,627	0	2,418,920	15,737,547	0.1537	0.2462
585114	88	NEW ENGLAND TEL - RI	0.1767	0.2730	6,619,689	535,995	1,582,201	8,737,885	0.1811	0.2243
623100	88	GTE HAWAIIAN TEL. CO	0.1453	0.2850	8,174,883	368,099	1,497,845	10,040,827	0.1492	0.2625
633201	88	PUERTO RICO TEL CO	0.1024	0.2543	8,475,530	1,776,331	1,169,031	11,420,892	0.1024	0.2543
116		TIER 1 CO's TOTALS	0.1275		1,715,000,030	245,952,961	304,884,669	2,265,837,665	0.1346	

TABLE 4.16

1987 NONTIER 1 COMPANIES NETWORK USAGE
DEM MINUTES (IN THOUSANDS) AND FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	W DEM
100003	87	LINCOLNVILLE TEL CO	0.1986	0.5914	5,907	2,461	2,074	10,442	0.1986	0.2714
100004	87	CHINA TEL CORP	0.1462	0.3300	7,752	8,049	2,714	18,515	0.1466	0.1739
100010	87	HAMPDEN TEL CO	0.1088	0.2841	17,828	7,151	4,105	29,084	0.1411	0.1825
100011	87	HARTLAND & ST ALBANS	0.1232	0.3000	12,311	6,234	2,607	21,151	0.1232	0.1837
100014	87	CONTEL OF MAINE	0.1592	0.3456	216,890	90,633	59,159	366,682	0.1613	0.2155
100024	87	SOMERSET TEL CO	0.1606	0.3148	38,008	20,157	10,791	68,956	0.1565	0.2030
100025	87	STANDISH TEL CO	0.1837	0.4654	20,906	17,011	8,532	46,449	0.1837	0.2211
100027	87	UNION RIVER TEL CO	0.1456	0.4158	2,639	1,409	770	4,818	0.1599	0.2028
100029	87	UNITY TEL CO., INC.	0.1297	0.3279	16,769	8,697	3,932	29,398	0.1337	0.1675
100031	87	WARREN TEL CO	0.1543	0.3274	4,125	5,147	1,691	10,964	0.1543	0.1698
100034	87	WEST PENOBSCOT TEL	0.1069	0.2538	7,934	5,628	1,582	15,144	0.1045	0.1364
120038	87	BRETTON WOODS TEL CO	0.5470	0.7500	141	376	624	1,141	0.5470	0.5881
120039	87	GRANITE STATE TEL	0.2527	0.4172	32,180	15,258	16,043	63,481	0.2527	0.3195
120041	87	CONTEL OF NH	0.2629	0.5542	48,849	20,173	25,008	94,030	0.2660	0.3195
120045	87	KEARSARGE TEL CO	0.2709	0.5978	19,927	15,937	13,321	49,185	0.2708	0.3194
120046	87	MERIDEN TEL CO	0.3826	0.7300	1,623	829	1,514	3,967	0.3818	0.4966
120047	87	MERRIMAK COUNTY TEL	0.1829	0.4968	45,695	19,215	14,920	79,830	0.1869	0.2360
120049	87	UNION TEL CO	0.2850	0.7400	11,729	9,168	8,330	29,227	0.2850	0.3413
120050	87	WILTON TEL CO - NH	0.2301	0.7200	13,323	6,355	6,619	26,297	0.2517	0.3029
140058	87	LUDLOW TEL CO	0.2738	0.4470	11,190	5,661	6,350	23,202	0.2737	0.3341
140061	87	NORTHFIELD TEL CO	0.2833	0.6143	14,329	6,493	8,229	29,051	0.2833	0.3476
140062	87	PERKINSVILLE TEL CO	0.2769	0.4708	2,303	2,199	1,724	6,225	0.2769	0.3358
140068	87	TOPSHAM TEL CO	0.2107	0.3607	5,919	2,133	2,150	10,201	0.2107	0.2693
140069	87	WAITSFIELD/FAYSTON	0.2902	0.7222	19,259	6,281	10,446	35,986	0.2902	0.3444
140070	87	CONTEL OF VERMONT	0.2374	0.4884	179,724	66,487	81,767	327,978	0.2493	0.3128
150071	87	ARMSTRONG TEL CO-NY	0.1517	0.2457	16,321	7,238	4,207	27,766	0.1515	0.2167
150072	87	AU SABLE VALLEY TEL	0.1368	0.3096	25,261	4,175	6,109	35,545	0.1719	0.2167
150073	*	BERKSHIRE TEL CORP	0.1292	0.2544	33,128	9,818	6,805	49,751	0.1292	0.1368
150077	87	CHAMPLAIN TEL CO	0.1861	0.4678	29,403	9,947	8,997	48,348	0.1861	0.2410
150078	87	CHAUTAUQUA & ERIE	0.1752	0.3891	62,290	19,680	17,410	99,380	0.1752	0.2291
150079	*	CHAZY & WESTPORT	0.1292	0.3178	18,565	5,502	3,813	27,881	0.1292	0.1368
150081	87	CITIZENS HAMMOND NY	0.1329	0.2305	4,298	3,025	1,123	8,446	0.1329	0.1576
150082	87	CLYMER TEL CO	0.2417	0.4821	1,518	492	662	2,672	0.2479	0.3565
150084	87	TACONIC TEL CORP	0.1671	0.3441	106,361	52,559	31,842	190,762	0.1671	0.2194
150085	87	CROWN POINT TEL CORP	0.1436	0.2632	4,107	2,225	1,062	7,394	0.1436	0.2050
150088	*	DELHI TEL CO	0.1292	0.2602	20,277	6,010	4,165	30,451	0.1292	0.1368
150091	87	DUNKIRK & FREDONIA	0.0773	0.2409	80,336	18,989	8,377	107,702	0.0778	0.1072
150092	87	EDWARDS TEL CO	0.0786	0.1980	9,412	6,290	1,345	17,047	0.0789	0.1141
150093	87	EMPIRE TEL CORP	0.1504	0.2604	26,769	20,129	8,300	55,198	0.1504	0.1877
150097	87	GERMANTOWN TEL CO	0.1380	0.2791	11,006	7,191	2,913	21,110	0.1380	0.1595
150099	87	HANCOCK TEL CO	0.1817	0.2925	7,846	3,118	2,436	13,400	0.1818	0.2511
150100	87	HIGHLAND TEL CO	0.1836	0.2910	434,650	227,982	150,113	812,745	0.1847	0.2800
150104	*	MARGARETVILLE TEL CO	0.1292	0.2369	13,237	3,923	2,719	19,879	0.1292	0.1368
150105	87	MIDDLEBURGH TEL CO	0.1043	0.2160	25,029	16,676	4,858	46,563	0.1043	0.1249
150106	87	ALLTEL NY-FULTON	0.0854	0.1996	125,729	16,955	13,547	156,231	0.0867	0.1174
150107	*	NEWPORT TEL CO	0.1292	0.1728	11,307	3,351	2,323	16,981	0.1292	0.1368

TABLE 4.16

1987 NONTIER 1 COMPANIES NETWORK USAGE
DEM MINUTES (IN THOUSANDS) AND FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	W DEM
150108	87	NICHOLVILLE TEL CO	0.1221	0.2133	11,085	5,299	2,273	18,657	0.1218	0.1584
150109	87	ALLTEL NY-JAMESTOWN	0.1419	0.2494	111,165	15,016	21,351	147,531	0.1447	0.1983
150110	87	OGDEN TEL CO	0.0699	0.2009	218,425	23,881	18,224	260,531	0.0700	0.1037
150111	*	ONEIDA COUNTY RURAL	0.1292	0.1668	15,659	4,641	3,216	23,516	0.1292	0.1368
150113	87	ALLTEL NY-RED JACKET	0.0785	0.2195	4,723	1,865	578	7,166	0.0806	0.0952
150118	*	PORT BYRON TEL CO	0.1292	0.1768	9,899	2,934	2,033	14,866	0.1292	0.1368
150119	87	RED HOOK TEL CO	0.1334	0.2853	95,328	44,703	21,691	161,723	0.1341	0.1761
150122	87	SENECA-GORHAM TEL	0.1070	0.2139	41,243	30,924	8,642	80,810	0.1069	0.1306
150128	87	SYLVAN LAKE TEL CO	0.1386	0.2788	156,317	53,274	33,461	243,052	0.1377	0.1839
150133	87	VERNON TEL CO	0.1022	0.2571	16,682	5,937	2,580	25,199	0.1024	0.1336
150135	87	WARWICK VALLEY-NY	0.2010	0.3534	69,254	40,269	27,516	137,039	0.2008	0.2483
150136	87	WESTERN COUNTIES TEL	0.1295	0.2385	144,796	65,677	31,349	241,822	0.1296	0.1859
160135	87	WARWICK VALLEY-NJ	0.1755	0.3603	32,328	43,068	16,045	91,441	0.1755	0.2025
170170	87	CONTEL OF PA	0.1117	0.2589	453,469	126,899	79,735	660,102	0.1208	0.1729
170177	87	LACKAWAXEN TEL CO	0.3418	0.6653	5,777	3,767	4,955	14,500	0.4460	0.3993
170189	87	ARMSTRONG TEL CO-PA	0.1184	0.2235	9,159	7,488	2,226	18,874	0.1180	0.1414
170192	87	NORTH PENN TEL CO	0.2166	0.3168	23,373	8,346	8,772	40,491	0.2166	0.3025
170194	87	OSWAYO RIVER TEL CO	0.2246	0.4710	11,211	2,670	4,021	17,902	0.2246	0.3280
170201	87	QUAKER STATE TEL CO	0.1628	0.2993	224,736	56,887	55,970	337,593	0.1658	0.2512
170206	87	SUGAR VALLEY TEL CO	0.1419	0.2527	4,903	2,252	1,175	8,330	0.1411	0.2091
170210	*	VENUS TEL CORP	0.1292	0.1382	5,257	1,558	1,080	7,895	0.1292	0.1368
180216	87	ARMSTRONG TEL OF MD	0.2275	0.3664	23,038	15,205	10,897	49,140	0.2218	0.2755
190217	87	AMELIA TEL CORP	0.0885	0.1844	27,098	8,880	3,382	39,361	0.0859	0.1272
190249	87	ROANOKE & BOTETOURT	0.1211	0.2359	73,399	20,407	12,678	106,484	0.1191	0.1591
200259	87	HARDY TEL CO	0.1283	0.2520	18,773	1,440	2,975	23,187	0.1283	0.2298
200270	87	MOUNTAIN STATE TEL	0.0977	0.2269	230,182	40,463	29,780	300,425	0.0991	0.1563
200278	87	CONTEL OF WV	0.1162	0.2309	275,753	56,131	46,271	378,156	0.1224	0.1845
210291	87	FLORALA TEL CO	0.1063	0.3253	13,925	5,154	4,427	23,506	0.0000	0.1883
210318	87	SOUTHLAND TEL-FL	0.0953	0.2774	35,242	3,138	4,044	42,423	0.0953	0.1627
210329	87	GULF TEL CO	0.1019	0.2728	83,442	26,485	22,070	131,997	0.0000	0.1672
210330	87	VISTA-UNITED TELCOM	0.4683	0.5859	48,411	26,962	70,910	146,283	0.4847	0.5324
210331	87	INDIANTOWN SYSTEM	0.1642	0.3906	10,278	10,031	3,854	24,163	0.1595	0.1899
210335	87	NORTHEAST FLORIDA	0.1043	0.2169	44,224	12,725	6,633	63,582	0.1043	0.1406
210336	87	ALLTEL FLORIDA INC.	0.1086	0.2587	428,843	123,270	66,731	618,844	0.1078	0.1474
210338	87	QUINCY TEL CO-FL DIV	0.0816	0.2198	112,888	24,734	12,139	149,760	0.0811	0.1186
210339	87	ST JOSEPH TEL & TEL	0.1282	0.3275	166,545	81,202	56,045	303,792	0.0000	0.4674
220281	87	CONTEL OF SOUTH - GA	0.0976	0.2143	504,557	134,572	75,035	714,164	0.1051	0.1611
220324	87	VALLEY TEL CO - GA	0.0727	0.3459	58,841	4,084	5,362	68,287	0.0785	0.1164
220338	87	QUINCY TEL CO-GA DIV	0.1454	0.2728	9,773	949	1,698	12,421	0.1367	0.2463
220344	87	ALMA TEL CO	0.0718	0.1883	57,020	11,782	5,306	74,107	0.0716	0.1106
220347	87	BRANTLEY TEL CO	0.0869	0.2004	28,726	7,607	3,461	39,794	0.0870	0.1295
220351	87	CAMDEN TEL & TEL CO	0.2286	0.5067	91,629	12,796	31,497	135,922	0.2317	0.3074
220355	87	CITIZENS TEL CO - GA	0.0739	0.2100	44,668	9,320	4,307	58,295	0.0739	0.0999
220356	87	COASTAL UTILITIES	0.2503	0.4869	173,638	46,122	73,018	292,779	0.2494	0.3563
220358	87	DARIEN TEL CO	0.1173	0.2624	29,999	8,326	5,030	43,354	0.1160	0.1587
220360	87	ELLIJAY TEL CO	0.0687	0.1854	64,866	12,549	5,702	83,117	0.0686	0.0942

TABLE 4.16

1987 NONTIER 1 COMPANIES NETWORK USAGE
DEM MINUTES (IN THOUSANDS) AND FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	W DEM
220371	87	INTERSTATE TEL CO	0.0928	0.2483	158,138	14,011	19,675	191,824	0.1026	0.1640
220377	87	PINELAND TEL COOP	0.0670	0.1766	92,560	19,336	8,033	119,928	0.0670	0.1057
220379	87	PLANT TEL. CO.	0.0782	0.2271	71,037	18,402	7,577	97,016	0.0781	0.1140
220381	87	PUBLIC SERVICE TEL	0.0663	0.1827	86,944	19,964	7,590	114,498	0.0663	0.1105
220386	87	STANDARD TEL CO	0.0931	0.2019	362,108	100,881	47,533	510,522	0.0931	0.1454
220392	87	WAVERLY HALL TEL CO	0.0964	0.2404	6,456	2,709	977	10,142	0.0964	0.1223
220394	87	WILKES TEL & ELC CO	0.0913	0.1971	97,571	18,837	11,640	128,048	0.0909	0.1491
230468	87	ATLANTIC MEMBERSHIP	0.1150	0.2271	145,947	27,941	22,585	196,473	0.1150	0.1634
230469	87	BARNARDSVILLE TEL CO	0.0704	0.2108	7,206	2,384	681	10,271	0.0663	0.1110
230473	87	CITIZENS TEL CO	0.1267	0.2487	145,117	20,041	23,838	188,996	0.1261	0.1752
230474	87	CONCORD TEL CO	0.0854	0.1709	858,581	113,626	95,793	1,068,000	0.0897	0.1186
230476	87	ALLTEL CAROLINA-NO	0.1095	0.2142	1,065,995	192,683	152,775	1,411,453	0.1082	0.1525
230481	87	HEINS TEL CO	0.0945	0.2156	280,641	53,739	35,215	369,595	0.0953	0.1584
230502	87	STAR MEMBERSHIP CORP	0.0679	0.1543	141,042	27,593	12,276	180,912	0.0679	0.1167
230509	87	CONTEL OF NC	0.1257	0.2783	920,035	150,692	162,368	1,233,096	0.1317	0.2181
230510	87	WILKES MEMBERSHIP	0.0396	0.1258	107,253	9,723	4,825	121,800	0.0396	0.0626
240512	87	BLUFFTON TEL. CO.	0.2722	0.5334	9,076	7,223	5,994	22,294	0.2689	0.3428
240520	87	FARMERS TEL COOP	0.1043	0.2720	518,953	61,239	67,252	647,444	0.1039	0.1400
240523	87	HARGRAY TEL CO	0.3526	0.5930	179,058	38,706	116,160	333,924	0.3479	0.4173
240526	87	CONTEL OF SC	0.1173	0.2778	188,147	22,312	27,917	238,376	0.1171	0.1599
240528	87	HORRY TEL COOP	0.1520	0.2853	319,001	52,368	66,927	438,296	0.1527	0.2002
240533	87	MCCLELLANVILLE TEL	0.1303	0.3036	8,228	3,617	1,775	13,620	0.1303	0.1979
240539	87	POND BRANCH TEL CO	0.0852	0.2061	70,905	17,286	8,177	96,368	0.0848	0.1214
240551	87	WILLISTON TEL CO	0.0953	0.2157	34,410	8,757	4,504	47,671	0.0945	0.1570
250281	87	CONTEL OF THE SOUTH	0.0867	0.2242	1,046,719	193,566	127,971	1,368,256	0.0935	0.1450
250284	87	BUTLER TEL CO	0.1177	0.2831	45,670	6,779	6,477	58,925	0.1099	0.1709
250295	*	GRACEBA TOTAL COMM	0.1292	0.2808	26,701	7,914	5,485	40,100	0.1292	0.1368
250297	87	GROVE HILL TEL CORP	0.0921	0.2216	17,624	5,642	2,183	25,449	0.0858	0.1362
250298	87	GULF TEL CO - AL	0.1730	0.3495	185,791	33,659	46,993	266,443	0.1764	0.2655
250300	87	HOPPER TEL. CO INC	0.0636	0.1656	24,832	7,271	2,182	34,285	0.0836	0.1078
250304	87	MILLRY TEL CO	0.0946	0.3108	50,127	70,740	12,167	133,034	0.0000	0.3776
250306	87	MONROEVILLE TEL CO	0.1178	0.2431	122,057	19,644	21,051	162,752	0.1293	0.2099
250314	87	PEOPLES TEL CO	0.0870	0.2073	116,219	17,133	12,658	146,010	0.0867	0.1451
250315	*	PINE BELT TEL CO	0.1292	0.1645	9,160	2,715	1,882	13,757	0.1292	0.1368
250316	87	RAGLAND TEL CO	0.0674	0.2040	9,062	2,796	857	12,714	0.0674	0.1128
250318	87	SOUTHLAND TEL CO-AL	0.0987	0.2625	136,178	18,980	17,245	172,404	0.0987	0.1616
250461	87	SOUTHEAST MS TEL CO	0.1658	0.4292	9,736	3,511	2,631	15,878	0.1657	0.2352
260410	87	CONTEL OF KENTUCKY	0.0971	0.1911	791,299	102,466	103,401	997,166	0.1037	0.1694
270422	87	ATHENS TEL CO	0.1196	0.2883	1,866	1,102	403	3,372	0.1196	0.1600
270423	87	CENTRAL LOUISIANA	0.0850	0.1944	155,467	28,780	17,162	201,409	0.0848	0.1369
270424	87	COASTAL TEL & ELECTR	0.0747	0.1766	98,224	24,831	9,943	132,999	0.0748	0.1015
270425	87	CAMERON TEL CO - LA	0.1092	0.3368	53,188	15,172	8,381	76,741	0.1092	0.1476
270427	*	CHATHAM TEL CO	0.1292	0.1764	4,968	1,472	1,020	7,461	0.1292	0.1368
270429	87	EAST ASCENSION TEL	0.0787	0.1962	282,371	51,596	28,517	362,484	0.0787	0.1191
270430	87	ELIZABETH TEL CO	0.0795	0.2061	25,189	5,441	2,645	33,275	0.0795	0.1389
270431	87	CADDOAN TEL CO	0.1321	0.2878	80,009	15,850	14,588	110,447	0.1321	0.2002

TABLE 4.16

 1987 NONTIER 1 COMPANIES NETWORK USAGE
 DEM MINUTES (IN THOUSANDS) AND FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	W DEM
270433	87	LAFORCHE TEL CO	0.0684	0.2490	113,606	20,216	9,829	143,651	0.0683	0.0984
270434	87	EVANGELINE TEL CO	0.0781	0.1716	299,916	66,621	31,028	397,565	0.0780	0.1176
270435	87	NORTHEAST LOUISIANA	0.1127	0.2650	7,564	3,120	1,357	12,041	0.1127	0.1747
270436	87	CENTURY NORTH LA	0.1364	0.2944	8,432	2,439	1,718	12,589	0.1365	0.2084
270437	87	PLAIN DEALING TEL CO	0.1062	0.2041	18,047	3,553	2,567	24,166	0.1062	0.1712
270439	*	RINGGOLD TEL CO	0.1292	0.2728	8,064	2,390	1,656	12,111	0.1292	0.1368
270440	87	CENTURY TEL CO	0.0869	0.1649	20,901	6,205	2,579	29,684	0.0869	0.1330
270442	87	LOUISIANA WESTERN	0.1129	0.2259	32,575	9,566	5,346	47,487	0.1126	0.1727
270443	87	UTC OF LUISIANA	0.1048	0.2446	28,233	6,686	4,084	39,003	0.1047	0.1604
280446	87	BAY SPRINGS TEL CO	0.0727	0.2098	107,176	16,781	9,714	133,671	0.0727	0.1301
280451	*	DECATUR TEL CO -MS	0.1292	0.1555	6,960	2,063	1,430	10,452	0.1292	0.1368
280452	87	DELTA TEL CO	0.0890	0.2424	30,516	4,591	3,429	38,537	0.0890	0.1611
280454	87	FRANKLIN TEL CO - MS	0.0948	0.2181	70,214	10,639	8,490	89,342	0.0950	0.1589
280458	87	HOME TEL CO-OLIVE BR	0.1887	0.5326	97,655	8,405	24,643	130,703	0.1885	0.2880
280459	87	HUGHES TEL CO	0.0880	0.1983	70,524	5,302	7,315	83,142	0.0880	0.1279
280464	87	NOXAPTER TEL CO	0.0776	0.1954	14,005	1,281	1,173	16,459	0.0713	0.1373
280466	*	SLEDGE TEL CO	0.1292	0.2628	3,206	950	658	4,814	0.1292	0.1368
290552	87	ADAMSVILLE TEL CO	0.0807	0.2448	79,081	6,504	7,689	93,274	0.0824	0.1356
290571	87	MILLINGTON TEL CO	0.1450	0.3556	258,975	23,028	47,148	329,152	0.1432	0.1868
290575	87	TENNESSEE TEL CO	0.0884	0.1931	518,962	48,875	54,922	622,759	0.0882	0.1194
290579	87	TWIN LAKES TEL COOP	0.0743	0.1938	290,489	32,296	25,908	348,692	0.0743	0.1404
300597	87	THE CHILLICOTHE TEL	0.0709	0.1644	339,851	52,025	29,896	421,772	0.0709	0.1137
300607	87	CONTEL OF OHIO	0.0758	0.1840	16,346	4,152	1,688	22,186	0.0761	0.1030
300613	87	FAYETTEVILLE TEL CO	0.0768	0.1752	9,604	2,997	1,048	13,649	0.0768	0.1003
300649	*	ORWELL TEL CO	0.1292	0.2195	29,953	8,877	6,152	44,983	0.1292	0.1368
300665	87	ALLTEL OHIO-WEST OH	0.0943	0.2139	143,921	50,235	20,223	214,379	0.0943	0.1429
300682	87	C, C & S TELCO -OHIO	0.1871	0.2728	2,147	3,249	768	6,164	0.2652	0.2771
310678	*	BLANCHARD TEL ASSN	0.1292	0.1599	3,057	906	628	4,591	0.1292	0.1368
310679	87	BLOOMINGDALE TEL CO	0.1170	0.2581	5,443	6,116	1,526	13,086	0.1166	0.1386
310680	87	CHIPPEWA COUNTY TEL	0.1376	0.2639	2,799	2,094	781	5,674	0.1376	0.1908
310681	87	ALLTEL MICHIGAN INC.	0.1160	0.2414	294,332	134,720	56,281	485,332	0.1160	0.1609
310682	87	C, C & S TELCO - MI	0.1141	0.2122	120,841	46,671	21,500	189,013	0.1138	0.1699
310683	87	CARR TEL CO	0.1116	0.3647	3,183	3,178	803	7,164	0.1121	0.1331
310685	87	CHATHAM TEL CO - MI	0.0948	0.2395	15,607	4,733	2,118	22,458	0.0943	0.1450
310687	87	CLAYTON TEL CO	0.1252	0.2279	1,781	2,754	649	5,185	0.1252	0.1554
310699	87	HICKORY TEL CO	0.0878	0.2025	13,571	3,222	1,562	18,355	0.0851	0.1161
310702	87	CENTURY OF MICHIGAN	0.0999	0.2145	213,775	137,781	38,807	390,363	0.0994	0.1243
310704	87	ACE TEL OF MICHIGAN	0.0843	0.2184	9,193	9,925	1,774	20,891	0.0849	0.1110
310711	87	MIDWAY TEL CO	0.1271	0.2761	3,832	1,740	811	6,382	0.1271	0.1924
310713	87	HIAWATHA TEL CO	0.1273	0.2882	19,215	7,583	3,842	30,640	0.1254	0.1840
310717	87	ONTONAGON COUNTY TEL	0.1209	0.2943	29,645	5,729	4,866	40,240	0.1209	0.2068
310721	87	PIGEON TEL CO	0.0821	0.1863	12,157	10,427	2,019	24,602	0.0821	0.1011
310728	87	SPRINGPORT TEL CO	0.0740	0.2103	6,894	5,818	1,016	13,728	0.0740	0.0914
310732	87	UPPER PENINSULA TEL	0.1676	0.3490	16,485	11,141	5,564	33,190	0.1676	0.2255
310734	*	WALDRON TEL CO	0.1292	0.3801	4,896	1,451	1,006	7,352	0.1292	0.1368
310735	*	WESTPHALIA TEL CO	0.1292	0.1137	1,287	382	264	1,933	0.1292	0.1368

TABLE 4.16

 1987 NONTIER 1 COMPANIES NETWORK USAGE
 DEM MINUTES (IN THOUSANDS) AND FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	W DEM
310738	87	WOLVERINE TEL CO	0.0595	0.1738	60,682	28,011	5,570	94,263	0.0591	0.0807
320753	87	CLAY CTY RURAL COOP	0.0691	0.2097	78,827	19,027	6,522	104,376	0.0691	0.0836
320762	87	ELNORA TEL CO	0.0718	0.1610	3,213	825	313	4,351	0.0720	0.1236
320778	87	HOME TEL CO INC	0.0624	0.1489	17,956	3,805	1,429	23,190	0.0616	0.1101
320779	87	CONTEL OF INDIANA	0.1197	0.2622	1,337,823	283,306	220,385	1,841,514	0.1197	0.1823
320797	87	NEW PARIS TEL INC	0.1233	0.2509	13,629	3,249	2,373	19,251	0.1233	0.1473
320800	87	NORTHWESTERN INDIANA	0.1317	0.4042	69,705	26,300	14,524	110,529	0.1314	0.1721
320807	*	PERRY-SPENCER RURAL	0.1292	0.2142	19,539	5,791	4,013	29,343	0.1292	0.1368
320813	*	PULASKI-WHITE RURAL	0.1292	0.2256	7,162	2,123	1,471	10,756	0.1292	0.1368
320830	*	TRI-COUNTY TEL CO	0.1292	0.1783	15,818	4,688	3,249	23,755	0.1292	0.1368
320839	*	YEOMAN TEL CO, INC	0.1292	0.2325	4,351	1,289	894	6,534	0.1292	0.1368
330841	87	CENCOM OF WISCONSIN	0.1024	0.2427	140,476	41,965	20,843	203,284	0.1025	0.1496
330842	*	AMERY TEL CO	0.1292	0.2825	48,501	14,375	9,962	72,838	0.1292	0.1368
330843	*	AMHERST TEL CO	0.1292	0.2058	16,403	4,861	3,369	24,633	0.1292	0.1368
330844	87	BADGER TELECOM, INC.	0.0760	0.1707	35,661	8,232	3,609	47,502	0.0760	0.1142
330851	87	BONDUEL TEL CO	0.0769	0.1363	11,660	3,166	1,236	16,062	0.0770	0.1222
330855	*	BRUCE TEL CO, INC	0.1292	0.2748	9,540	2,828	1,960	14,327	0.1292	0.1368
330856	87	BURLINGTON B&W	0.2001	0.2925	14,373	7,944	5,583	27,900	0.2001	0.2310
330857	*	CASCO TEL CO	0.1292	0.1245	2,660	788	546	3,995	0.1292	0.1368
330858	*	LAKESHORE TEL CO	0.1292	0.1940	4,027	1,193	827	6,047	0.1292	0.1368
330859	87	CENTRAL STATE TEL CO	0.1088	0.2142	48,244	16,436	6,488	71,167	0.0912	0.1328
330860	87	CHEQUAMEGON TEL COOP	0.1892	0.3825	21,900	8,591	7,113	37,604	0.1982	0.2308
330861	*	CHIBARDUM TEL COOP	0.1292	0.2108	25,345	7,512	5,206	38,063	0.1292	0.1368
330870	87	CRANDON TEL CO	0.0916	0.1943	14,262	4,446	1,886	20,595	0.0916	0.1318
330876	87	DODGE COUNTY TEL CO	0.0587	0.1375	7,092	2,131	578	9,800	0.0590	0.0869
330882	87	FENNIMORE TEL CO	0.0936	0.2362	12,122	4,236	1,694	18,052	0.0939	0.1416
330883	87	FOOTVILLE TEL CO	0.0658	0.1805	9,204	1,257	695	11,156	0.0623	0.1168
330888	87	GREENWOOD TEL CO	0.0828	0.1788	10,660	2,288	1,106	14,055	0.0787	0.1275
330889	*	HAGER CITY TEL CO	0.1292	0.2728	14,605	4,329	3,000	21,933	0.1292	0.1368
330891	87	HEADWATERS TEL CO	0.1698	0.3058	13,022	5,257	3,729	22,008	0.1694	0.2100
330892	*	HILLSBORO TEL CO	0.1292	0.1628	6,011	1,781	1,235	9,027	0.1292	0.1368
330895	87	CENTURY OF WISCONSIN	0.1467	0.2593	443,708	73,094	112,074	628,876	0.1782	0.2055
330898	87	LARSEN-READFIELD TEL	0.0561	0.1653	13,817	4,971	1,117	19,906	0.0561	0.0792
330900	*	LEMONWEIR VALLEY TEL	0.1292	0.3297	19,223	5,697	3,949	28,869	0.1292	0.1368
330905	*	MANAWA TEL CO	0.1292	0.1887	7,414	2,197	1,523	11,134	0.1292	0.1368
330908	87	MARQUETTE-ADAMS COOP	0.2744	0.4874	11,960	5,927	6,672	24,560	0.2717	0.3659
330909	87	MIDWAY TEL CO	0.1184	0.2140	52,178	13,505	8,822	74,506	0.1184	0.1547
330910	*	MILLTOWN MUTUAL TEL	0.1292	0.2782	16,949	5,023	3,481	25,453	0.1292	0.1368
330913	87	MONROE COUNTY TEL CO	0.1586	0.2965	67,783	18,394	16,240	102,418	0.1586	0.2108
330914	87	MOSEL & CENTERVILLE	0.0915	0.2088	28,182	6,666	3,508	38,356	0.0915	0.1315
330916	87	MOUNT HOREB TEL CO	0.0886	0.2728	27,002	4,571	3,068	34,641	0.0886	0.1228
330917	87	MT VERNON TEL CO	0.1032	0.2254	51,710	10,554	7,166	69,430	0.1032	0.1249
330920	*	NIAGARA TEL CO	0.1292	0.3330	60,915	18,054	12,512	91,482	0.1292	0.1368
330922	87	NORTH-WEST TEL CO	0.1163	0.2481	451,411	121,650	78,879	651,940	0.1209	0.1640
330925	*	BAYLAND TEL CO	0.1292	0.1566	6,145	1,821	1,262	9,228	0.1292	0.1368
330931	87	PEOPLES TEL CO	0.0846	0.2021	38,305	13,427	4,782	56,514	0.0846	0.1059

TABLE 4.16

 1987 NONTIER 1 COMPANIES NETWORK USAGE
 DEM MINUTES (IN THOUSANDS) AND FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	W DEM
330934	+	PLATTEVILLE TEL CO	0.1376	0.3118	46,841	14,980	9,841	71,662	0.1373	0.1833
330936		87 INDIANHEAD TEL CO	0.1477	0.3561	8,064	3,904	2,077	14,046	0.1479	0.2190
330937	+	PRICE COUNTY TEL CO	0.1255	0.2806	25,168	7,343	4,664	37,175	0.1255	0.1868
330940		87 RHINELANDER TEL CO	0.1233	0.2351	85,389	22,968	15,907	124,265	0.1280	0.1597
330941	*	RIB LAKE TEL CO	0.1292	0.2728	4,381	1,299	900	6,580	0.1292	0.1368
330943		87 ROCK RIVER TEL CO	0.1106	0.2192	11,743	3,924	1,948	17,614	0.1106	0.1257
330945		87 SCANDINAVIA TEL CO	0.1198	0.2560	11,104	5,288	2,137	18,528	0.1153	0.1447
330948	*	SHELL LAKE TEL CO	0.1292	0.2411	12,673	3,756	2,603	19,032	0.1292	0.1368
330949	*	SIREN TEL CO, INC	0.1292	0.3959	14,113	4,183	2,899	21,195	0.1292	0.1368
330950		87 SOLON SPRINGS TEL CO	0.1798	0.3881	77,178	23,099	21,989	122,266	0.1798	0.2546
330952		87 SE TEL OF WISCONSIN	0.1168	0.2016	45,408	14,865	7,984	68,257	0.1170	0.1446
330954		87 STOCKBRIDGE & SHERWD	0.0656	0.1489	16,757	5,572	1,569	23,898	0.0657	0.0801
330956		87 UNIVERSAL OF N WISC	0.1351	0.4758	59,884	21,720	12,749	94,352	0.1351	0.2041
330959	*	THORP TEL CO	0.1292	0.2202	10,722	3,178	2,202	16,103	0.1292	0.1368
330961	*	TURTLE LAKE TEL CO	0.1292	0.2982	6,774	2,008	1,391	10,173	0.1292	0.1368
330963		87 UTELCO, INC	0.1711	0.2697	88,195	22,962	23,125	134,283	0.1722	0.2304
330964		87 URBAN TEL CORP	0.0791	0.2144	148,833	38,121	16,613	203,568	0.0816	0.1052
330965		87 VALDERS TEL CO	0.0620	0.1684	15,194	4,710	1,270	21,174	0.0600	0.0895
330967	*	VIROQUA TEL CO	0.1292	0.1991	17,837	5,286	3,664	26,787	0.1292	0.1368
330973	*	WITTENBERG TEL CO	0.1292	0.1398	6,752	2,001	1,387	10,140	0.1292	0.1368
330974		87 WOOD COUNTY TEL CO	0.1086	0.2150	193,659	35,440	27,798	256,897	0.1082	0.1417
341000		87 ALLTEL ILLINOIS INC.	0.1590	0.3233	331,800	102,255	82,032	516,087	0.1590	0.2119
341003	*	EGYPTIAN COOP ASSN	0.1292	0.2360	13,430	3,980	2,759	20,169	0.1292	0.1368
341004		87 EL PASO TEL CO	0.1018	0.2471	9,850	5,440	1,733	17,024	0.1018	0.1300
341009	*	C-R TEL CO	0.1292	0.1874	4,165	1,234	856	6,255	0.1292	0.1368
341011		87 LAKESIDE TEL CO	0.0788	0.2010	5,151	2,326	639	8,115	0.0788	0.1228
341023		87 GRIDLEY TEL CO	0.1297	0.2547	5,214	5,165	1,546	11,925	0.1297	0.1551
341036		87 CONTEL OF ILLINOIS	0.1323	0.2646	1,165,987	526,852	258,011	1,950,850	0.1323	0.1675
341037		87 IL CONSOLIDATED TEL	0.1059	0.2297	648,381	228,888	107,990	985,260	0.1096	0.1396
341038		87 INLAND TEL CO	0.0911	0.2038	21,060	18,886	4,005	43,952	0.0911	0.1250
341045		87 LEAF RIVER VLY TEL	0.0952	0.2193	2,262	2,170	467	4,899	0.0952	0.1288
341055		87 MIDLAND TEL CO	0.0847	0.2049	22,905	16,520	3,646	43,071	0.0847	0.1210
341060		87 MOULTRIE INDEPENDENT	0.0745	0.1797	4,283	2,333	532	7,149	0.0745	0.1126
341073		87 PRAIRIE TEL CO	0.0870	0.2172	6,234	2,983	878	10,096	0.0870	0.1337
351105		87 AYRSHIRE FARMERS MUT	0.1032	0.2347	1,442	1,309	317	3,068	0.1032	0.1253
351110		87 BERNARD TEL CO INC	0.0928	0.1998	3,829	1,560	402	5,791	0.0694	0.0858
351113	*	BROOKLYN MUTUAL TEL	0.1292	0.2043	6,613	1,960	1,358	9,931	0.1292	0.1368
351153	*	DUNKERTON TEL COOP	0.1292	0.1814	4,006	1,187	823	6,016	0.1292	0.1368
351207		87 CONTEL OF IOWA, INC.	0.0925	0.2377	566,607	180,073	76,099	822,778	0.0925	0.1577
351214	*	KALONA COOP TEL CO	0.1292	0.2520	11,802	3,498	2,424	17,724	0.1292	0.1368
351229		87 LOST NATION-ELWOOD	0.0815	0.1788	5,466	1,701	493	7,659	0.0644	0.0915
351316		87 UNITED FARMERS TEL	0.4772	0.3011	2,787	21	4,172	6,980	0.1772	0.5416
351327		87 WEBB-DICKENS TEL	0.1450	0.2658	1,559	1,854	579	3,992	0.1450	0.1861
351329	*	WELLMAN COOP TEL	0.1292	0.1923	6,358	1,884	1,306	9,548	0.1292	0.1368
351346		87 ACE TEL ASSN-IA	0.1103	0.2045	28,398	8,104	4,523	41,025	0.1103	0.1721
351888		87 GRAND RIVER MUT-IA	0.1325	0.2728	45,634	12,078	8,817	66,530	0.1325	0.1851

TABLE 4.16

 1987 NONTIER 1 COMPANIES NETWORK USAGE
 DEM MINUTES (IN THOUSANDS) AND FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	W DEM
361140	87	CONTEL OF MINNESOTA	0.0933	0.2187	745,343	268,265	104,578	1,118,187	0.0933	0.1469
361346	87	ACE TEL ASSN-MN	0.1985	0.2571	70,552	17,250	21,748	109,551	0.1985	0.2703
361350	87	ARVIG TEL CO	0.1145	0.3354	37,964	14,175	7,013	59,152	0.1186	0.1450
361357	*	BLACKDUCK TEL CO	0.1292	0.2307	5,821	1,725	1,196	8,742	0.1292	0.1368
361362	87	BRIDGEWATER TEL CO	0.0719	0.2964	32,847	17,948	10,043	60,839	0.1651	0.2033
361370	87	CLARA CITY TEL EXCH	0.0925	0.2805	8,421	4,545	1,368	14,334	0.0955	0.1187
361373	*	CONSOLIDATED TEL CO	0.1292	0.2196	26,819	7,948	5,509	40,276	0.1292	0.1368
361374	87	ARROWHEAD COMM CORP	0.1437	0.2769	1,537	1,722	547	3,805	0.1437	0.1862
361379	87	DEER RIVER TEL CO	0.0927	0.2265	12,945	2,736	1,602	17,282	0.0927	0.1182
361383	*	EAGLE VALLEY TEL CO	0.1292	0.1677	2,404	713	494	3,611	0.1292	0.1368
361385	87	EAST OTTER TAIL TEL	0.0995	0.2667	84,568	20,509	11,606	116,683	0.0995	0.1348
361387	*	EMILY COOP TEL CO	0.1292	0.2232	3,985	1,181	819	5,985	0.1292	0.1368
361395	87	GARDEN VALLEY TEL CO	0.0941	0.2383	93,259	34,396	13,263	140,918	0.0941	0.1375
361399	*	GRANADA TEL CO	0.1292	0.1765	1,055	313	217	1,584	0.1292	0.1368
361401	*	HALSTAD TEL CO	0.1292	0.2685	14,685	4,352	3,016	22,053	0.1292	0.1368
361410	87	JOHNSON TEL CO	0.1183	0.2982	5,417	2,370	1,056	8,843	0.1194	0.1523
361414	87	LAKEDALE TEL CO	0.8265	0.1722	55,108	30,473	7,747	93,328	0.8301	0.1127
361425	*	MADELIA TEL CO	0.1292	0.2090	7,616	2,257	1,564	11,438	0.1292	0.1368
361433	87	MID STATE TEL CO	0.0797	0.2048	41,421	12,985	4,713	59,118	0.0797	0.1078
361442	87	NEW ULM TELECOM, INC	0.1101	0.2579	63,222	20,963	12,188	96,374	0.1265	0.1802
361443	87	NORMAN COUNTY TEL CO	0.1214	0.2453	31,886	6,061	5,336	43,282	0.1233	0.1656
361445	*	NORTHLAND TEL CO	0.1292	0.2106	3,276	971	673	4,920	0.1292	0.1368
361451	87	PAUL BUNYAN RURAL	0.1028	0.2380	39,453	10,755	5,754	55,962	0.1028	0.1492
361482	*	SHERBURNE CTY RURAL	0.1292	0.1879	25,682	7,612	5,275	38,569	0.1292	0.1368
361483	87	SLEEPY EYE TEL CO	0.0654	0.1893	35,942	15,330	4,511	55,783	0.0809	0.1103
361487	*	STARBUCK TEL CO	0.1292	0.2528	4,695	1,391	964	7,050	0.1292	0.1368
361491	+	TWIN VALLEY-ULEN TEL	0.0844	0.2181	25,839	6,542	2,983	35,364	0.0844	0.1382
361499	*	CROSSLAKE TEL CO	0.1292	0.3207	5,199	1,541	1,068	7,808	0.1292	0.1368
371516	87	ARAPAHOE TEL CO	0.1191	0.3093	7,137	2,523	1,306	10,967	0.1191	0.1765
371517	87	ARLINGTON TEL CO	0.1184	0.2887	6,028	3,558	1,221	10,807	0.1130	0.1650
371524	87	BLAIR TEL CO	0.1343	0.3052	43,891	14,248	9,018	67,157	0.1343	0.1732
371525	87	THREE RIVER TELCO	0.1348	0.3630	7,526	3,010	1,642	12,177	0.1348	0.1951
371530	*	CONSOLIDATED TELCO	0.1292	0.2397	10,106	2,995	2,076	15,176	0.1292	0.1368
371531	*	CLARKS TEL CO	0.1292	0.1992	4,441	1,316	912	6,669	0.1292	0.1368
371534	87	COZAD TEL CO	0.1136	0.2728	15,853	6,336	2,844	25,033	0.1136	0.1663
371536	87	CURTIS TEL CO	0.1087	0.1944	5,239	2,267	915	8,421	0.1087	0.1431
371537	87	DALTON TEL CO, INC	0.1882	0.4367	6,870	3,796	2,564	13,230	0.1942	0.2722
371540	87	DILLER TEL CO	0.1059	0.2728	5,173	2,477	906	8,557	0.1059	0.1522
371542	87	EASTERN NEBRASKA TEL	0.1436	0.3365	16,235	6,482	3,811	26,527	0.1436	0.1879
371553	*	GLENWOOD TEL MEMBER	0.1292	0.2008	14,245	4,222	2,926	21,393	0.1292	0.1368
371557	87	HARTMAN TEL EXCH INC	0.2140	0.2728	2,807	951	1,023	4,781	0.2140	0.3203
371558	87	HEMINGFORD COOP TEL	0.0949	0.2817	8,609	1,097	1,018	10,723	0.0949	0.1586
371561	*	HERSHEY COOP TEL CO	0.1292	0.2922	6,190	1,835	1,271	9,296	0.1292	0.1368
371565	*	K & M TEL CO, INC	0.1292	0.2016	3,704	1,098	761	5,563	0.1292	0.1368
371567	87	KEYSTONE-ARTHUR TEL	0.2409	0.5049	971	1,011	567	2,550	0.2225	0.2463
371574	87	NEBRASKA CENTRAL TEL	0.0807	0.2571	22,578	8,383	2,719	33,679	0.0807	0.1236

TABLE 4.16

1987 MONTIER 1 COMPANIES NETWORK USAGE
DEM MINUTES (IN THOUSANDS) AND FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	W DEM
371576	*	NORTHEAST NEBRASKA	0.1292	0.2405	24,343	7,215	5,000	36,558	0.1292	0.1368
371577	87	GREAT PLAINS COMMUN	0.1397	0.2772	164,480	66,205	37,472	268,157	0.1397	0.2118
371580	87	PETERSBURG TEL CO	0.0661	0.2284	2,351	1,439	268	4,058	0.0661	0.0844
371581	*	PIERCE TEL CO	0.1292	0.1839	7,467	2,213	1,534	11,214	0.1292	0.1368
371586	87	ROCK COUNTY TEL CO	0.1170	0.2824	7,381	2,887	1,367	11,636	0.1175	0.1841
371587	*	RODEO TEL, INC	0.1292	0.1842	14,369	4,259	2,951	21,578	0.1292	0.1368
371591	87	SE NEBRASKA TEL CO	0.1653	0.3248	33,181	4,758	7,512	45,451	0.1653	0.2044
371592	87	STANTON TEL CO, INC	0.0848	0.1965	7,960	2,777	995	11,732	0.0848	0.1284
371597	87	WAUNETA TEL CO	0.1505	0.2728	3,587	1,610	920	6,116	0.1505	0.1929
372455	87	BENKELMAN TEL CO	0.1609	0.3919	7,831	1,664	1,821	11,317	0.1609	0.2473
381447	87	CONTEL OF N. DAKOTA	0.1094	0.2807	59,325	22,701	15,136	97,162	0.1558	0.1745
381604	*	BEK TEL MUTUAL AID	0.1292	0.1998	23,254	6,892	4,776	34,922	0.1292	0.1368
381607	87	CONSOLIDATED COOP	0.1154	0.3192	38,258	8,018	6,039	52,315	0.1154	0.1683
381610	*	DAKOTA CENTRAL RURAL	0.1292	0.2295	16,032	4,752	3,293	24,077	0.1292	0.1368
381611	*	DICKEY RURAL COOP	0.1292	0.2460	20,924	6,201	4,298	31,424	0.1292	0.1368
381616	87	INTER-COMMUNITY TEL	0.1179	0.2230	9,124	3,710	1,716	14,549	0.1179	0.1522
381617	87	MIDSTATE TEL CO	0.1800	0.3911	7,875	3,368	2,468	13,711	0.1800	0.2425
381625	*	NORTHWEST COMM COOP	0.1292	0.3465	23,886	7,079	4,906	35,872	0.1292	0.1368
381630	87	POLAR COMM MUT AID	0.1121	0.2470	82,052	17,427	12,559	112,038	0.1121	0.1647
381632	87	RESERVATION TEL COOP	0.1230	0.3241	35,863	10,170	6,079	52,112	0.1167	0.1683
381634	87	SOURIS RIVER TEL MUT	0.1973	0.4029	88,639	25,695	27,816	142,150	0.1957	0.2587
381636	*	UNITED TEL MUTUAL	0.1292	0.2355	31,163	9,236	6,401	46,800	0.1292	0.1368
381637	87	W. RIVER MUTUAL AID	0.1281	0.3463	80,182	20,232	14,747	115,160	0.1281	0.1938
391643	87	CONTEL OF S. DAKOTA	0.1663	0.3723	53,827	15,691	13,906	83,424	0.1667	0.2410
391645	*	BROOKINGS-LAKE TEL	0.1292	0.2817	18,726	5,550	3,846	28,122	0.1292	0.1368
391647	87	CHEYENNE RIVER SIOUX	0.1151	0.2820	20,686	4,180	3,236	28,101	0.1151	0.1646
391659	87	GOLDEN WEST TELECOMM	0.1588	0.3665	94,168	23,142	22,314	139,625	0.1588	0.2193
391666	87	JEFFERSON TEL CO -SD	0.4118	0.7300	1,859	628	1,741	4,229	0.4118	0.5479
391667	87	KADOKA TELEPHONE CO	0.2027	0.6113	2,696	1,014	943	4,652	0.2027	0.3014
391668	87	KENNEBEC TEL CO	0.1409	0.2901	1,299	916	363	2,579	0.1409	0.1883
391669	*	MCCOOK COOP TEL CO	0.1292	0.2412	4,597	1,362	944	6,903	0.1292	0.1368
391670	*	MIDSTATE TEL COMPANY	0.1292	0.2245	16,739	4,961	3,438	25,138	0.1292	0.1368
391676	*	SANBORN TEL COOP	0.1292	0.2232	13,586	4,027	2,791	20,403	0.1292	0.1368
391680	*	SULLY BUTTES TEL	0.1292	0.2329	30,048	8,906	6,172	45,126	0.1292	0.1368
391689	87	WEST RIVER COOP	0.1219	0.3115	16,159	3,121	2,678	21,958	0.1219	0.1927
401691	87	ALLTEL ARKANSAS INC	0.1171	0.2972	621,221	154,419	107,130	882,769	0.1214	0.1867
401692	87	ARKANSAS TEL CO	0.1470	0.2727	48,802	7,892	9,768	66,461	0.1470	0.2220
401697	87	CENTRAL ARKANSAS TEL	0.0934	0.2479	18,391	5,089	2,419	25,899	0.0934	0.1509
401698	87	CLEVELAND COUNTY TEL	0.0889	0.2899	15,020	6,652	2,061	23,733	0.0868	0.1326
401699	87	DECATUR TEL CO INC	0.2365	0.6309	3,508	2,214	1,773	7,496	0.2365	0.2802
401702	87	SOUTH ARKANSAS TEL	0.0914	0.2754	27,688	6,913	3,480	38,082	0.0914	0.1414
401705	87	LIBERTY TEL & COMM	0.1435	0.3402	104,132	18,273	20,433	142,838	0.1430	0.2228
401709	87	MADISON COUNTY TEL	0.1359	0.2897	22,202	5,454	4,342	31,997	0.1357	0.2152
401711	87	MOUNTAIN HOME TEL	0.2517	0.4303	81,396	14,599	32,523	128,518	0.2531	0.3413
401713	87	NORTH ARKANSAS TEL	0.2231	0.4734	22,992	10,086	9,497	42,575	0.2231	0.3211
401720	87	REDFIELD TEL CO	0.1067	0.3534	9,605	4,375	1,670	15,649	0.1067	0.1477

TABLE 4.16

1987 NONTIER 1 COMPANIES NETWORK USAGE
DEM MINUTES (IN THOUSANDS) AND FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	W DEM
401722	*	E RITTER TEL CO	0.1292	0.3183	40,205	11,916	8,258	60,379	0.1292	0.1368
401724	*	SW ARKANSAS TEL COOP	0.1292	0.2955	41,752	12,374	8,576	62,702	0.1292	0.1368
401726	87	TRI-COUNTY TEL CO-AR	0.1173	0.2560	42,363	6,902	6,533	55,798	0.1171	0.1928
401727	87	UNION TEL CO INC	0.1971	0.3623	6,605	2,171	2,177	10,954	0.1969	0.2955
401729	87	WALNUT HILL TEL CO	0.1740	0.4114	30,619	10,543	8,673	49,835	0.1740	0.2560
401730	87	CONTEL OF ARKANSAS	0.1182	0.2880	764,812	172,096	128,884	1,065,792	0.1209	0.1724
401733	87	YELCOT TEL CO INC	0.1510	0.3481	22,469	5,292	4,937	32,697	0.1510	0.2387
401734	87	YELL COUNTY TEL CO	0.0985	0.2346	33,890	10,272	4,824	48,986	0.0985	0.1485
411741	87	ASSARIA TEL EXCHANGE	0.1568	0.3011	2,100	2,181	796	5,077	0.1568	0.1856
411746	87	BLUE VALLEY TEL CO	0.1193	0.2745	13,325	8,933	3,016	25,274	0.1193	0.1700
411761	87	CUNNINGHAM TEL CO	0.1188	0.2868	7,918	4,859	1,723	14,499	0.1188	0.1638
411764	87	ELKHART TEL CO INC	0.2316	0.4786	9,178	2,385	3,715	15,278	0.2432	0.3339
411777	*	GOLDEN BELT TEL ASSN	0.1292	0.4216	21,393	6,340	4,394	32,127	0.1292	0.1368
411780	*	HAVILAND TEL CO	0.1292	0.2790	19,606	5,811	4,027	29,443	0.1292	0.1368
411781	87	H & B COMMUNICATIONS	0.1406	0.3135	3,978	3,329	1,194	8,501	0.1405	0.1600
411782	87	HOME TEL CO	0.1169	0.2866	6,261	4,922	1,480	12,663	0.1169	0.1435
411785	87	J. B. N. TEL CO INC	0.1320	0.2803	12,065	7,398	2,961	22,425	0.4618	0.6333
411788	87	KANOKLA TEL ASSN-KS	0.1620	0.3456	11,446	5,894	3,149	20,489	0.1620	0.2084
411789	87	KANSAS STATE TEL CO	0.2139	0.2728	42,671	7,095	13,746	63,511	0.2164	0.2818
411790	87	CONTEL OF KANSAS	0.1346	0.3024	258,847	167,448	71,474	497,769	0.1436	0.1836
411801	87	MADISON TEL CO INC	0.1103	0.2897	4,331	1,738	753	6,821	0.1103	0.1550
411807	87	MOKAN DIAL INC-KS	0.1669	0.3133	10,110	6,813	3,669	20,592	0.1782	0.2365
411808	87	MOUNDRIDGE TEL CO	0.1606	0.2912	13,773	6,426	3,978	24,177	0.1645	0.2055
411814	87	PEOPLES MUTUAL TEL	0.1723	0.4002	6,131	2,675	1,834	10,641	0.1723	0.2199
411818	87	CRAW-KAN TEL COOP	0.1395	0.2925	73,874	33,876	17,470	125,221	0.1395	0.1950
411820	*	RAINBOW TEL COOP	0.1292	0.2336	11,563	3,427	2,375	17,365	0.1292	0.1368
411826	87	RURAL TEL SERVICE CO	0.1131	0.2710	40,600	21,199	7,882	69,681	0.1131	0.1474
411827	87	S & T TEL COOP ASSN	0.1520	0.3699	8,366	5,889	2,738	16,993	0.1611	0.2058
411829	*	S & A TEL CO INC	0.1292	0.2354	4,168	1,235	856	6,259	0.1292	0.1368
411831	87	S. CENTRAL TEL - KS	0.1556	0.2973	4,551	3,830	1,545	9,926	0.1556	0.1979
411833	*	SOUTHERN KANSAS TEL	0.1292	0.2930	20,845	6,178	4,282	31,305	0.1292	0.1368
411835	87	SUNFLOWER TEL CO	0.1559	0.4101	26,786	9,413	7,360	43,559	0.1690	0.2307
411839	*	TRI-COUNTY TEL ASSN	0.1292	0.2256	17,302	5,128	3,554	25,984	0.1292	0.1368
411840	87	TWIN VALLEY TEL INC	0.1192	0.2520	10,796	6,494	2,341	19,632	0.1192	0.1660
411841	87	UNITED TEL ASSN	0.1546	0.4108	23,436	16,468	7,962	47,867	0.1663	0.2074
411845	*	WAMEGO TEL CO INC	0.1292	0.2720	23,923	7,090	4,914	35,927	0.1292	0.1368
411847	87	THE WHEAT STATE TEL	0.1228	0.2853	9,794	7,189	2,379	19,361	0.1228	0.1572
411849	87	WILSON TEL CO INC	0.1186	0.2499	10,794	6,063	2,268	19,126	0.1186	0.1595
411852	87	ZENDA TEL COMPANY	0.0927	0.2114	1,049	1,082	218	2,349	0.0927	0.1165
412030	87	TOTAH TELEPHONE CO	0.2108	0.4273	4,855	4,251	2,433	11,539	0.2108	0.2555
421807	87	MOKAN DIAL INC-MO	0.1076	0.2417	4,108	2,178	758	7,044	0.1076	0.1605
421846	87	CONTINENTAL SYS. -MO	0.1156	0.3418	335,632	97,079	57,201	489,912	0.1168	0.1841
421859	87	BOURBEUSE TEL	0.1090	0.2728	8,823	5,400	1,740	15,963	0.1090	0.1313
421865	87	CITIZENS TEL CO - MO	0.1523	0.2392	15,268	10,967	4,678	30,913	0.1513	0.1849
421873	87	EASTERN MISSOURI TEL	0.0954	0.2012	13,624	8,621	2,346	24,591	0.0954	0.1199
421882	87	FIDELITY TEL CO	0.1078	0.2226	72,386	27,295	12,044	111,725	0.1078	0.1433

TABLE 4.16

 1987 NONTIER 1 COMPANIES NETWORK USAGE
 DEM MINUTES (IN THOUSANDS) AND FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	W DEM
421885	87	ALLTEL MISSOURI	0.1199	0.2430	187,544	62,367	34,034	283,945	0.1199	0.1681
421886	87	GOODMAN TEL CO	0.1987	0.4007	6,784	4,392	2,771	13,947	0.1987	0.2333
421888	87	GRAND RIVER MUT-MO	0.0972	0.2461	103,794	26,844	14,057	144,695	0.0972	0.1385
421901	87	KINGDOM TELEPHONE CO	0.1135	0.3711	14,755	11,493	3,359	29,607	0.1135	0.1579
421904	87	MISSOURI TEL CO	0.1109	0.2317	126,304	32,968	19,825	179,097	0.1107	0.1745
421908	87	LE-RU TELEPHONE CO	0.2356	0.2727	5,019	2,367	2,276	9,662	0.2356	0.3280
421917	*	MID-MISSOURI TEL CO	0.1292	0.1954	14,783	4,381	3,036	22,200	0.1292	0.1368
421920	*	MILLER TEL CO - MO	0.1292	0.2733	4,886	1,448	1,004	7,337	0.1292	0.1368
421922	87	CONTEL OF MISSOURI	0.1261	0.2758	896,698	492,697	237,152	1,626,547	0.1458	0.1791
421929	87	HOLWAY TEL CO	0.0997	0.2803	4,351	1,735	674	6,760	0.0997	0.1516
421931	87	NE MISSOURI RURAL	0.1245	0.2810	25,513	7,936	4,758	38,206	0.1245	0.1963
421932	87	LATHROP TEL COMPANY	0.1129	0.2009	7,706	3,771	1,461	12,938	0.1129	0.1544
421934	87	ORCHARD FARM TEL CO	0.0810	0.2669	1,932	4,384	557	6,874	0.0810	0.0963
421945	*	SENECA TEL CO	0.1292	0.3408	20,515	6,080	4,214	30,809	0.1292	0.1368
421951	87	STOUTLAND TEL CO	0.0914	0.2774	6,477	2,611	914	10,002	0.0914	0.1442
421963	87	WEBSTERCOUNTY TEL	0.1074	0.3439	34,294	11,937	5,839	52,070	0.1121	0.1628
421964	*	WHEELING TEL CO	0.1292	0.1824	1,787	530	367	2,683	0.1292	0.1368
431788	87	KANOKLA TEL ASSN-OK	0.1754	0.3325	7,292	3,844	2,252	13,388	0.1754	0.2286
431831	87	S. CENTRAL TEL - OK	0.2043	0.3873	2,026	1,139	813	3,978	0.2043	0.2784
431965	87	ALLTEL OKLAHOMA INC	0.1228	0.3213	77,127	45,763	17,197	140,086	0.1228	0.1582
431974	87	CANADIAN VALLEY TEL	0.1356	0.3490	3,587	2,580	973	7,140	0.1356	0.1831
431976	87	CARNEGIE TEL CO INC	0.1115	0.2655	11,055	4,931	2,006	17,992	0.1115	0.1543
431977	*	CENTRAL OKLAHOMA TEL	0.1292	0.2048	12,131	3,595	2,492	18,218	0.1292	0.1368
431979	87	CHEROKEE TEL CO	0.2011	0.3830	32,049	10,478	10,711	53,238	0.2012	0.2544
431980	87	CHICKASAW TEL CO	0.1024	0.3080	50,457	28,436	8,986	87,878	0.1092	0.1373
431981	87	CHOUTEAU TEL CO	0.1193	0.3012	15,426	8,338	3,338	27,102	0.1232	0.1422
431984	87	OKLAMOMA COMM SYSTEM	0.1008	0.2400	113,284	46,332	17,835	177,450	0.1005	0.1218
431985	87	CROSS TEL CO	0.1024	0.2718	51,036	23,940	8,558	83,533	0.1024	0.1573
431988	87	DOBSON TEL CO	0.1148	0.3685	34,506	12,165	6,052	52,723	0.1148	0.1768
431994	87	GRAND TEL CO INC	0.1383	0.4319	16,530	7,787	3,895	28,211	0.1381	0.1900
431995	87	HINTON TEL CO	0.0975	0.2253	21,134	10,726	3,442	35,303	0.0975	0.1240
432006	87	MCLLOUD TEL CO	0.0480	0.2113	117,368	16,998	6,778	141,144	0.0480	0.0647
432010	87	MID-AMERICA TEL INC	0.0979	0.3144	7,697	6,026	1,489	15,212	0.0979	0.1371
432011	87	OKLAHOMA ALLTEL, INC	0.1448	0.3070	94,600	33,764	21,743	150,108	0.1448	0.2059
432013	87	OKLAHOMA TEL & TEL	0.1207	0.2753	10,335	6,418	2,299	19,052	0.1207	0.2526
432014	87	OKLAHOMA WESTERN TEL	0.1412	0.3646	14,008	7,657	3,563	25,228	0.1412	0.1913
432016	87	PANHANDLE TEL COOP	0.2582	0.5262	23,819	12,755	12,732	49,305	0.2582	0.3174
432018	87	PIONEER TEL COOP INC	0.0931	0.2859	282,654	122,264	41,735	446,653	0.0934	0.2286
432020	87	POTTAWATOMIE TEL CO	0.0954	0.2559	10,423	7,402	2,097	19,921	0.1052	0.1392
432030	87	TOTAH TELEPHONE CO	0.1480	0.3230	6,615	9,132	2,736	18,483	0.1480	0.1949
432032	87	VALLIANT TEL CO	0.1152	0.2728	15,846	4,649	2,993	23,488	0.1152	0.1553
432034	87	WYANDOTTE TEL CO	0.2508	0.6543	2,032	1,357	1,134	4,523	0.2508	0.3286
432141	*	SANTA ROSA TEL COOP	0.1292	0.3192	5,567	1,650	1,143	8,360	0.1292	0.1368
440425	87	CAMERON TEL CO TEXAS	0.0651	0.2353	4,378	3,009	515	7,902	0.0651	0.0949
442039	87	BIG BEND TEL CO INC	0.1750	0.3711	11,552	8,879	3,734	24,165	0.1750	0.1919
442040	87	BRAZORIA TEL CO	0.0587	0.1702	50,117	16,198	4,104	70,418	0.0583	0.0757

TABLE 4.16

1987 NONTIER 1 COMPANIES NETWORK USAGE
DEM MINUTES (IN THOUSANDS) AND FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	W DEM
442041	87	BRAZOS TEL COOP INC	0.0776	0.1854	3,012	4,829	659	8,500	0.0776	0.0816
442046	87	CAP ROCK TEL CO INC	0.0846	0.1884	13,745	9,144	1,697	24,585	0.0846	0.0946
442052	87	CENTRAL TEXAS CO-OP	0.0508	0.1703	22,230	10,197	1,733	34,160	0.0507	0.0786
442057	*	COLEMAN COUNTY CO-OP	0.1292	0.2136	4,852	1,438	997	7,286	0.1292	0.1368
442059	87	COLORADO VALLEY TEL	0.0715	0.1676	29,153	14,798	3,383	47,334	0.0715	0.0938
442060	*	COMANCHE COUNTY TEL	0.1292	0.1512	11,720	3,473	2,407	17,600	0.1292	0.1368
442066	87	DELL TEL. CO-OP - TX	0.2466	0.5719	2,060	1,434	1,143	4,638	0.2466	0.3026
442068	87	EASTEX TEL COOP INC	0.0740	0.2144	151,779	52,168	16,319	220,265	0.0741	0.1135
442070	87	ETEX TEL COOP INC	0.0844	0.1882	47,163	35,115	7,587	89,865	0.0844	0.0937
442071	87	FIVE AREA TEL CO-OP	0.1125	0.2616	12,071	5,368	2,211	19,651	0.1125	0.1522
442072	87	FORT BEND TEL CO	0.0760	0.2726	208,590	38,864	20,224	267,677	0.0756	0.1065
442076	87	GANADO TELEPHONE CO	0.0529	0.1329	7,968	4,933	715	13,616	0.0525	0.0688
442083	87	GUADALUPE VALLEY TEL	0.1016	0.2341	74,019	62,337	15,405	151,762	0.1015	0.1199
442086	87	HILL COUNTRY CO-OP	0.0799	0.2502	50,721	25,545	6,623	82,889	0.0799	0.1014
442093	87	INDUSTRY TEL CO	0.0584	0.1672	6,447	5,636	731	12,813	0.0570	0.0710
442097	87	KERRVILLE TEL CO	0.1046	0.3175	114,642	49,344	19,643	183,629	0.1070	0.1255
442101	87	LAKE DALLAS TEL CO	0.2055	0.3123	17,546	25,194	9,517	52,256	0.2055	0.3482
442103	87	LA WARD TEL EXCHANGE	0.0848	0.1872	2,399	3,675	563	6,638	0.0848	0.0971
442104	87	LAKE LIVINGSTON TEL	0.1189	0.3039	2,273	2,255	611	5,139	0.2709	0.1336
442109	87	LUFKIN-CONROE TEL EX	0.0777	0.1942	655,107	354,821	133,238	1,143,166	0.0000	0.1166
442112	87	MID-PLAINS RURAL TEL	0.0963	0.2096	14,151	9,323	2,073	25,546	0.0959	0.1108
442116	87	MUENSTER TEL CORP-TX	0.0874	0.1989	11,639	5,639	1,636	18,914	0.0865	0.1230
442117	87	MUSTANG TEL CO	0.1559	0.5954	6,897	7,453	2,680	17,030	0.1574	0.1761
442121	87	ALLTEL TEXAS INC	0.0871	0.2545	20,405	8,605	2,769	31,779	0.0871	0.1241
442129	87	PEEPLS TEL CO	0.0670	0.1731	4,071	3,804	566	8,441	0.0670	0.0686
442130	87	PEOPLES TEL COOP -TX	0.0952	0.1841	44,936	23,735	5,955	74,626	0.0952	0.1049
442131	87	POKA-LAMBRO RURAL	0.0566	0.1668	22,936	13,004	2,154	38,094	0.0566	0.0854
442134	87	RIVIERA TEL CO INC	0.0934	0.2345	3,606	3,345	716	7,666	0.0934	0.1400
442135	87	SOUTHWEST TEXAS TEL	0.0749	0.2029	10,922	8,045	1,531	20,498	0.0747	0.0983
442136	87	ROMAIN TELEPHONE CO	0.1332	0.2788	5,899	3,038	1,373	10,310	0.1332	0.1932
442141	*	SANTA ROSA TEL COOP	0.1292	0.1911	4,454	1,320	915	6,688	0.1292	0.1368
442143	*	SOUTH PLAINS TEL	0.1292	0.1796	13,659	4,048	2,806	20,513	0.1292	0.1368
442147	87	SUGAR LAND TEL CO	0.1392	0.2930	362,288	41,920	65,978	470,186	0.1403	0.1602
442148	87	SWEENEY-OLD OCEAN	0.0957	0.2271	19,186	15,791	3,689	38,665	0.0954	0.1144
442151	87	TAYLOR TEL CO-OP INC	0.0712	0.1815	41,008	18,506	4,557	64,071	0.0711	0.1486
442153	87	TEXAS-MIDLAND TEL	0.0856	0.1955	49,334	40,072	8,369	97,775	0.0856	0.1225
442155	87	TRI-COUNTY TEL - TX	0.0572	0.1818	4,719	3,073	473	8,264	0.0572	0.0683
442156	87	TRINITY VALLEY TEL	0.0800	0.2454	40,623	16,376	4,954	61,953	0.0800	0.1100
442159	87	VALLEY TEL CO-OP -TX	0.0539	0.2013	27,302	18,039	2,577	47,918	0.0538	0.0776
442160	87	VALLEY TEL CO	0.1214	0.2333	3,317	4,522	1,067	8,906	0.1198	0.1351
442163	87	WATERWOOD COMM INC	0.2237	0.6151	228	1,054	369	1,651	0.2237	0.2024
442166	87	WEST TEXAS RURAL TEL	0.1382	0.3218	14,175	7,271	3,085	24,532	0.1382	0.1554
442168	87	WES-TEX TEL CO-OP	0.0560	0.1734	28,228	11,519	2,360	42,107	0.0560	0.0849
442170	87	XIT RURAL TEL CO-OP	0.2354	0.4209	5,363	3,687	2,895	11,946	0.2424	0.2684
442262	87	ENMR TEL COOP-TX	0.0940	0.4150	6,673	1,375	821	8,869	0.0939	0.1276
452171	87	ARIZONA TELEPHONE CO	0.2463	0.7500	3,085	5,241	2,722	11,048	0.2463	0.2930

TABLE 4.16

 1987 NONTIER 1 COMPANIES NETWORK USAGE
 DEM MINUTES (IN THOUSANDS) AND FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	W DEM
452172	87	CITIZENS UTILITIES	0.3045	0.6252	246,080	41,353	125,845	413,278	0.3045	0.4082
452175	87	UNIVERSAL TEL OF SW	0.1493	0.4947	6,600	2,435	1,586	10,621	0.1493	0.2305
452176	87	VALLEY TEL COOP-AZ	0.2602	0.6099	8,797	6,029	5,213	20,040	0.2602	0.3391
452177	87	CONTEL OF WEST-AZ	0.1628	0.3771	151,229	105,100	75,433	331,762	0.2274	0.2274
452275	87	NAVAJO COMMUN-AZ	0.2821	0.7206	36,031	23,838	23,526	83,396	0.2821	0.3613
452302	87	CONTEL CALIF - AZ	0.2649	0.5271	27,259	8,940	13,002	49,201	0.2643	0.3846
461835	87	SUNFLOWER TEL - CO	0.2579	0.4267	1,374	1,036	838	3,248	0.2579	0.3389
462181	87	BIJOU TEL COOP ASSOC	0.1503	0.3657	2,962	2,944	1,083	6,989	0.1549	0.2037
462182	87	BLANCA TEL CO	0.2292	0.6548	1,866	1,247	926	4,039	0.2292	0.3312
462184	87	DELTA COUNTY TEL CO	0.1319	0.2890	53,430	9,674	9,805	72,909	0.1345	0.2123
462185	87	EAGLE TELECOMMUN INC	0.2071	0.5373	23,273	13,788	9,789	46,851	0.2090	0.2680
462186	87	EASTERN SLOPE RURAL	0.1468	0.3531	25,005	13,293	7,271	45,568	0.1596	0.2047
462187	87	EL PASO COUNTY TEL	0.1771	0.3408	10,579	7,123	3,809	21,510	0.1771	0.2171
462188	87	FARMERS TEL CO - CO	0.1918	0.4374	1,308	838	509	2,656	0.1918	0.2347
462190	87	HAXTUN TEL CO	0.1357	0.3216	7,929	4,369	1,931	14,229	0.1357	0.1858
462192	87	BIG SANDY TELCOMM	0.1463	0.3209	3,521	2,504	1,198	7,223	0.1659	0.1801
462193	87	NUCLA-NATURITA TEL	0.2288	0.4296	5,473	2,735	2,435	10,643	0.2288	0.3106
462194	87	NUNN TEL CO	0.2455	0.5217	992	803	584	2,379	0.2455	0.2866
462196	87	PEETZ COOP TEL CO	0.2271	0.4080	1,248	501	514	2,263	0.2271	0.3143
462197	*	PHILLIPS COUNTY TEL	0.1292	0.3666	14,819	4,392	3,044	22,256	0.1292	0.1368
462199	87	PLAINS COOP TEL ASSN	0.1234	0.2600	8,153	4,831	1,828	14,812	0.1234	0.1753
462203	87	RYE TELEPHONE CO	0.1737	0.4162	7,441	3,344	2,267	13,052	0.1737	0.2216
462204	87	COLUMBINE TEL CO	0.2682	0.6117	2,931	2,227	1,891	7,049	0.2682	0.3178
462207	87	STRASBURG TEL CO	0.1536	0.3728	3,945	3,481	1,348	8,774	0.1536	0.2060
462208	87	UNIVERSAL TEL CO -CO	0.2157	0.6651	32,374	5,984	10,549	48,907	0.2157	0.3171
462209	87	WIGGINS TEL ASSOC	0.1257	0.2832	5,461	4,465	1,513	11,439	0.1323	0.1727
472177	87	CONTEL OF WEST-ID	0.1848	0.4309	69,325	68,523	50,617	188,465	0.2686	0.2686
472213	87	ALBION TEL CO INC	0.1725	0.3769	6,674	2,451	1,902	11,026	0.1725	0.2332
472215	87	CAMBRIDGE TEL CO	0.1613	0.3790	3,962	2,043	1,155	7,160	0.1613	0.2134
472218	87	CUSTER TEL COOP	0.1810	0.7500	10,216	2,643	2,841	15,700	0.1810	0.2683
472223	87	GEM STATE UTIL-ID	0.1535	0.4527	6,774	2,826	1,741	11,341	0.1535	0.2196
472225	87	CENTURY TEL OF IDAHO	0.1794	0.3932	23,083	3,640	5,857	32,581	0.1798	0.2783
472226	87	MIDVALE TEL EXCH INC	0.2134	0.3018	744	429	318	1,491	0.2134	0.2734
472231	87	PROJECT MUTUAL TEL	0.0887	0.2970	84,935	8,219	9,244	102,398	0.0903	0.1303
472232	87	ROCKLAND TEL CO INC	0.1095	0.3220	2,239	928	390	3,557	0.1095	0.1598
472233	87	RURAL TEL CO - ID	0.2366	0.7000	417	526	292	1,236	0.2366	0.2907
472234	87	TROY TELEPHONE CO	0.2286	0.4437	2,873	1,900	1,415	6,188	0.2286	0.2768
472295	87	SILVER STAR TEL- ID	0.2128	0.5617	1,467	916	644	3,028	0.2128	0.2601
472423	87	INLAND TEL-ID	0.1931	0.3588	916	990	456	2,362	0.1931	0.2473
482235	87	BLACKFOOT TEL COOP	0.1788	0.4764	22,949	16,546	8,602	48,097	0.1788	0.2164
482242	87	INTERBEL TEL COOP	0.1934	0.5215	5,961	1,192	1,715	8,869	0.1934	0.2586
482244	87	LINCOLN TEL CO INC	0.1522	0.4757	2,816	1,670	805	5,291	0.1522	0.1919
482246	87	MID-RIVERS TEL COOP	0.1182	0.3168	47,238	18,253	8,776	74,267	0.1182	0.1680
482247	87	NEMONT TEL COOP-MT	0.2142	0.3731	8,571	7,198	4,163	19,932	0.2089	0.2330
482248	87	NORTHERN TEL COOP	0.1862	0.4831	7,104	4,964	2,760	14,828	0.1862	0.2269
482249	87	NW TEL SYSTEMS, INC.	0.2129	0.4158	199,762	82,012	81,996	363,770	0.2254	0.2992

TABLE 4.16

1987 NONTIER 1 COMPANIES NETWORK USAGE
DEM MINUTES (IN THOUSANDS) AND FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	W DEM
482250	87	PROJECT TEL CO	0.1668	0.3663	12,418	7,215	3,931	23,565	0.1668	0.2092
482251	87	RANGE TEL COOP-MT	0.1685	0.4388	19,244	7,570	5,433	32,247	0.1685	0.2334
482254	87	SOUTHERN MONTANA TEL	0.2513	0.6929	2,171	2,037	1,413	5,620	0.2513	0.2942
482255	87	3-RIVERS TEL COOP	0.1549	0.4287	45,095	22,564	12,397	80,056	0.1549	0.1958
482257	87	TRIANGLE TEL COOP	0.1199	0.3254	58,389	25,697	11,455	95,541	0.1199	0.1591
482258	87	VALLEY RURAL TEL	0.1225	0.7135	3,559	2,039	782	6,380	0.1225	0.1560
492066	87	DELL TEL CO-OP - NM	0.2600	0.2728	1,062	476	540	2,078	0.2600	0.3283
492176	87	VALLEY TEL COOP - NM	0.2666	0.5413	6,744	2,050	3,177	11,971	0.2654	0.3814
492177	87	CONTEL OF WEST - NM	0.1699	0.3936	167,947	101,139	73,794	342,881	0.2152	0.2152
492259	87	BACA VALLEY TEL CO	0.2007	0.5777	3,286	1,358	1,166	5,811	0.2007	0.2547
492262	87	ENMR TEL COOP INC-NM	0.1880	0.3774	66,558	14,491	18,768	99,817	0.1880	0.2384
492263	87	LA JICARITA RURAL	0.0808	0.2565	15,844	3,356	1,687	20,887	0.0808	0.1301
492264	87	LEACO RURAL TEL COOP	0.2454	0.5157	4,159	3,220	2,297	9,676	0.2374	0.2817
492268	87	WESTERN NEW MEXICO	0.2168	0.4133	24,695	9,919	9,584	44,198	0.2168	0.2742
492270	87	PENASCO VALLEY TEL	0.1764	0.5233	11,632	5,495	3,437	20,563	0.1671	0.2029
492272	87	ROOSEVELT CNTY RURAL	0.1583	0.3346	13,236	3,708	3,187	20,130	0.1583	0.2317
492274	87	UNIVERSAL TEL OF SW	0.1773	0.4301	17,700	7,754	5,487	30,941	0.1773	0.2621
492275	87	NAVAJO COMMUN - NM	0.2878	0.6887	13,536	8,028	8,713	30,278	0.2878	0.3553
502177	87	CONTEL THE WEST - UT	0.1881	0.3575	125,521	59,177	68,837	253,535	0.2715	0.2715
502275	87	NAVAJO COMMUN - UT	0.5363	0.7500	699	539	1,431	2,669	0.5363	0.6294
502277	87	CENTRAL UTAH TEL INC	0.0889	0.2089	7,150	2,014	894	10,058	0.0889	0.1212
502278	87	EMERY COUNTY FARMERS	0.0748	0.2603	26,638	6,587	2,686	35,911	0.0748	0.3930
502280	87	KAMAS-WOODLAND TEL	0.1104	0.2474	7,576	4,291	1,473	13,340	0.1104	0.1626
502283	*	SKYLINE TELECOM	0.1292	0.1707	2,283	677	469	3,429	0.1292	0.1368
502286	87	SOUTH CENTRAL UTAH	0.1722	0.4022	16,466	4,614	4,385	25,466	0.1722	0.2381
502287	87	UINTAH BASIN TEL	0.1209	0.2907	18,317	8,729	3,719	30,765	0.1209	0.1652
502288	87	UT-WY TELECOM	0.0786	0.5146	9,067	956	855	10,877	0.0786	0.1486
512251	87	RANGE TEL COOP - WY	0.2218	0.5439	10,331	3,411	3,916	17,658	0.2218	0.2953
512290	87	UTAH-WYOMING TELECOM	0.3294	0.7300	1,537	329	917	2,783	0.3294	0.4789
512291	87	DUBOIS TEL EXCHANGE	0.2907	0.7016	6,844	2,643	3,893	13,381	0.2910	0.3587
512294	87	MEDICINE BOW TEL CO	0.1787	0.6947	1,085	519	349	1,953	0.1787	0.2604
512295	87	SILVER STAR TEL-WY	0.3069	0.7200	4,634	1,273	2,616	8,524	0.3069	0.3921
512297	87	UNION TELEPHONE CO	0.2335	0.6944	23,183	5,142	8,631	36,956	0.2335	0.6583
512299	87	TEL. UTIL. OF WY.	0.2734	0.6820	14,794	5,130	7,522	27,445	0.2741	0.3801
522404	87	ASOTIN TEL - WA	0.1226	0.2682	8,185	934	1,274	10,393	0.1226	0.2209
522408	87	TEL UTIL OF WA INC	0.1485	0.3914	463,087	281,879	131,715	876,681	0.1502	0.1978
522410	87	COWICHE TELEPHONE CO	0.1057	0.2912	6,721	5,843	1,481	14,045	0.1054	0.1278
522412	87	ELLENSBURG TEL CO	0.1254	0.2855	109,213	34,514	20,605	164,332	0.1254	0.1791
522417	87	HAT ISLAND TEL CO	0.0000	0.2728	0	0	0	0	0.0000	0.0000
522419	87	HOOD CANAL TEL CO	0.1947	0.4136	1,440	2,388	926	4,754	0.1947	0.2197
522423	87	INLAND TEL CO -WA	0.1429	0.3978	7,998	3,171	1,863	13,031	0.1429	0.1945
522426	87	KALAMA TEL CO	0.1672	0.4248	7,603	5,866	3,051	16,521	0.1847	0.2233
522427	87	LEWIS RIVER TEL CO	0.2178	0.3929	10,803	9,093	5,540	25,435	0.2178	0.2611
522431	87	MASHELL TEL CO INC	0.1270	0.2755	7,214	8,188	2,241	17,643	0.1270	0.1490
522436	87	PENINSULA TELECOMM	0.1582	0.3241	29,064	14,804	8,169	52,036	0.1570	0.1996
522437	87	PIONEER TEL CO	0.1212	0.2919	4,002	2,276	866	7,144	0.1212	0.1534

TABLE 4.16

 1987 NONTIER 1 COMPANIES NETWORK USAGE
 DEM MINUTES (IN THOUSANDS) AND FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	W DEM
522442	87	ST JOHN TEL CO	0.1539	0.2418	2,072	2,167	771	5,010	0.1539	0.1821
522446	87	TENINO TELEPHONE CO	0.1309	0.2390	10,667	8,871	2,990	22,529	0.1327	0.1614
522447	87	TOLEDO TELEPHONE CO	0.1424	0.2373	9,306	5,068	2,386	16,760	0.1424	0.1932
522449	87	CONTEL OF THE NW-WA	0.1358	0.3104	374,554	235,182	134,900	744,636	0.1812	0.1812
522451	87	WESTERN WAHAKIAKUM	0.1320	0.2934	5,359	2,567	1,205	9,131	0.1320	0.1875
522452	87	WHIDBEY TEL CO.	0.0880	0.2728	42,111	17,074	6,020	65,204	0.0923	0.1334
522453	87	YELM TELEPHONE CO	0.1058	0.2769	35,942	21,572	6,928	64,442	0.1075	0.1331
532226	87	MIDVALE TEL EXCH -OR	0.1223	0.3030	1,992	753	382	3,127	0.1223	0.1961
532304	87	C P NATIONAL CORP-OR	0.1919	0.4449	50,874	32,778	19,970	103,622	0.1927	0.2444
532359	87	BEAVER CREEK COOP	0.0989	0.2550	37,320	9,277	5,117	51,713	0.0989	0.1157
532361	87	TEL UTIL OF OREGON	0.1518	0.3522	239,420	125,963	68,994	434,377	0.1588	0.2151
532362	87	CANBY TEL ASSN	0.0989	0.2872	56,015	26,972	9,108	92,095	0.0989	0.1261
532363	87	CLEAR CREEK MUTUAL	0.1049	0.2526	31,907	7,366	4,269	43,541	0.1049	0.1305
532364	87	COLTON TEL CO	0.1017	0.3132	7,286	3,453	1,337	12,076	0.1017	0.1460
532371	87	CASCADE UTIL INC	0.1034	0.3035	62,083	18,764	9,325	90,172	0.1034	0.1450
532375	87	RTI/HALSEY TEL CO	0.2977	0.3856	2,054	4,612	2,825	9,491	0.2977	0.3392
532376	87	HELIX TEL CO.	0.1960	0.4147	665	847	368	1,880	0.1960	0.2217
532377	87	HOME TELEPHONE CO	0.1098	0.3162	2,848	1,572	545	4,965	0.1098	0.1625
532378	87	TRANS-CASCADES TEL	0.1855	0.4460	577	352	212	1,141	0.1855	0.2599
532383	87	MOLALLA TEL CO.	0.0092	0.2576	34,787	15,819	5,097	55,702	0.0092	0.1195
532385	87	MONROE TELEPHONE CO.	0.1130	0.3825	3,117	2,745	747	6,608	0.1130	0.1453
532387	87	NEHALEM TEL & TEL	0.1465	0.4131	5,529	4,351	1,695	11,576	0.1465	0.1784
532388	87	NORTH-STATE TEL CO.	0.1463	0.3291	1,497	1,455	506	3,457	0.1463	0.1746
532389	87	OREGON TEL CORP	0.4068	0.3782	6,032	5,544	2,053	13,629	0.1507	0.1972
532392	87	PINE TEL SYSTEM INC.	0.1880	0.2838	4,006	1,405	1,253	6,664	0.1880	0.2587
532393	87	PIONEER TEL COOP	0.1394	0.3740	56,957	23,878	13,098	93,933	0.1394	0.1836
532397	87	SCIO MUTUAL TEL ASSN	0.1117	0.2451	7,940	4,906	1,615	14,460	0.1117	0.1406
532399	*	STAYTON COOP TEL CO	0.1292	0.3024	35,921	10,646	7,378	53,945	0.1292	0.1368
532404	87	ASOTIN TEL - OR	0.3731	0.7500	151	160	185	497	0.3731	0.4506
532449	87	CONTEL OF THE NW- OR	0.1275	0.2949	166,016	138,518	66,278	370,812	0.1787	0.1787
532456	87	MALHEUR HOME TEL CO	0.2082	0.3484	107,566	13,359	31,788	152,713	0.2082	0.2315
542301	87	CALAVERAS TEL CO	0.0824	0.2488	5,480	5,382	975	11,837	0.0824	0.0905
542304	87	C P NATIONAL CORP-CA	0.1067	0.2772	62,326	41,415	12,469	116,210	0.1073	0.1409
542306	*	CAPAY VALLEY TEL SYS	0.1292	0.2748	1,977	586	406	2,969	0.1292	0.1368
542308	87	CITIZENS UTIL OF CA	0.0793	0.2319	485,223	156,572	55,254	697,049	0.0793	0.1107
542311	87	CALIF-OREGON TEL CO	0.2442	0.4166	9,695	4,839	4,695	19,229	0.2442	0.3212
542313	87	DUCOR TELEPHONE CO	0.6850	0.2156	2,105	2,755	357	5,217	0.6850	0.8873
542315	87	EVANS TEL CO.	0.0614	0.1941	44,165	29,395	4,598	78,159	0.0588	0.0776
542318	87	FORESTHILL TEL CO.	0.0000	0.0000	0	0	0	0	0.0000	0.0000
542321	87	HAPPY VALLEY TEL CO	0.0000	0.0000	0	0	0	0	0.0000	0.0000
542322	87	HORNITOS TEL CO	0.0000	0.0000	0	0	0	0	0.0000	0.0000
542324	87	KERMAN TELEPHONE CO	0.0502	0.1489	40,522	14,443	3,095	58,061	0.0533	0.0702
542332	87	THE PONDEROSA TEL CO	0.0570	0.1972	27,619	19,986	2,877	50,482	0.0570	0.0714
542334	87	ROSEVILLE TEL CO	0.7022	0.1991	605,801	143,049	53,814	802,663	0.6704	0.8102
542338	87	SIERRA TELEPHONE CO	0.0619	0.2088	71,352	43,046	7,579	121,977	0.0621	0.0882
542339	87	THE SISKIYOU TEL CO	0.1277	0.3105	13,681	25,536	7,230	46,448	0.1557	0.1557

TABLE 4.16

1987 NONTIER 1 COMPANIES NETWORK USAGE
DEM MINUTES (IN THOUSANDS) AND FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	W DEM
542342	87	TUOLUMNE TEL CO	0.0833	0.2634	18,651	18,828	3,403	40,882	0.0832	0.0982
542343	87	THE VOLCANO TEL CO	0.0646	0.2036	26,008	32,450	4,162	62,620	0.0665	0.0833
542346	+	PINNACLES TEL CO	0.1940	0.4069	279	1,723	482	2,484	0.1940	0.2072
552223	87	GEM STATE UTIL-NV	0.2537	0.5780	1,509	437	661	2,606	0.2537	0.3240
552233	87	RURAL TEL CO - NV	0.3670	0.7000	220	368	341	929	0.3670	0.3932
552302	87	CONTEL OF CALIF-NV	0.3129	0.7300	102,721	31,712	70,869	205,302	0.3452	0.4097
552304	87	CP NATIONAL-NV	0.3063	0.7200	55,951	18,774	33,600	108,325	0.3102	0.3896
552349	87	CHURCHILL COUNTY TEL	0.2279	0.5470	61,561	9,419	20,956	91,935	0.2279	0.3004
552351	87	LINCOLN CTY TEL SYS	0.2298	0.5709	7,200	3,926	3,320	14,446	0.2298	0.3048
552353	87	MOAPA VALLEY TEL CO.	0.2075	0.6200	12,729	3,721	4,307	20,757	0.2075	0.3176
552354	87	NEVADA TEL-TELEGRAPH	0.3042	0.7500	12,895	5,089	7,800	25,783	0.3025	0.3849
552356	87	RIO VIRGIN TEL CO	0.3907	0.3250	5,406	1,029	4,126	10,561	0.3907	0.4835
613000	87	ANCHORAGE TEL UTIL	0.1327	0.4752	1,809,209	134,842	297,498	2,241,548	0.1327	0.1524
613001	87	ARCTIC SLOPE TEL	0.3231	0.7500	8,033	9,302	8,272	25,606	0.3231	0.3378
613003	87	BRISTOL BAY TEL COOP	0.2117	0.7500	5,440	2,647	2,172	10,260	0.2117	0.2643
613004	87	BUSH-TELL INC.	0.0749	0.4284	3,087	2,095	419	5,602	0.0749	0.0953
613006	87	COPPER VALLEY TEL	0.2105	0.5457	20,431	7,240	7,379	35,049	0.2105	0.2752
613007	87	CORDOVA TEL COOP	0.2252	0.7400	10,048	2,459	3,634	16,140	0.2251	0.2937
613008	87	FAIRBANKS MUNICIPAL	0.1397	0.4401	300,702	33,567	54,269	388,537	0.1397	0.1968
613009	87	GTE ALASKA INC.	0.1788	0.4997	93,300	33,023	27,498	153,821	0.1788	0.2570
613010	87	GLACIER STATE TEL CO	0.1925	0.5877	290,151	46,945	61,395	398,490	0.1541	0.2113
613011	87	INTERIOR TEL CO INC	0.3187	0.7500	10,797	6,834	8,248	25,879	0.3187	0.3791
613012	87	JUNEAU & DOUGLAS TEL	0.1808	0.5489	162,738	23,282	41,887	227,906	0.1838	0.2545
613013	87	KETCHIKAN PUBLIC UT	0.2095	0.8359	65,762	8,781	19,755	94,298	0.2095	0.3217
613015	87	MATANUSKA TEL ASSOC	0.1325	0.3969	294,407	62,645	54,539	411,591	0.1325	0.1819
613016	87	MUKLUK TEL CO INC	0.1098	0.2728	2,542	2,463	617	5,622	0.1098	0.1475
613018	87	NUSHAGAK TEL COOP	0.1590	0.5702	10,274	3,913	2,683	16,870	0.1590	0.2287
613019	87	OTZ TEL COOPERATIVE	0.0927	0.3409	13,175	6,526	2,013	21,714	0.0927	0.1328
613020	87	SITKA TELEPHONE CO	0.2234	0.5799	49,636	20,182	20,294	90,113	0.2252	0.3109
613022	87	TEL UTIL OF ALASKA	0.3010	0.7500	17,359	1,537	8,197	27,094	0.3026	0.3982
613023	87	UNITED UTILITIES INC	0.0794	0.3030	20,194	13,576	2,911	36,682	0.0794	0.1194
613025	87	YUKON TEL CO INC	0.1925	0.3887	1,455	1,427	687	3,569	0.1925	0.2270
633200	87	PUERTO RICO COMM	0.0666	0.2270	805,005	233,094	74,049	1,112,148	0.0666	0.0926
643300	87	VIRGIN ISLANDS TEL	0.1584	0.4101	1,005,897	0	277,075	1,282,972	0.0000	0.2160
678		NONTIER 1 CO'S TOTALS	0.1255		47,289,854	13,959,501	9,339,421	70,588,772	0.1323	
888888	87	AVERAGE SCHEDULE CO.	0.1292	0.3175	19,596,000	5,807,800	4,025,000	29,428,800	0.1368	0.1368
TOTAL		NONTIER 1 & AV. SCH.	0.1266		66,885,854	19,767,301	13,364,421	100,017,572	0.1336	

* - COMPANIES WHO NECA COMPUTED DATA FOR

+ - COMPANIES WHO SUBMITTED 1986 RATHER THAN 1987

TABLE 4.17

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 DEM MINUTES (IN THOUSANDS) AND VARIOUS FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	TR DEM
100003	88	LINCOLNVILLE TEL CO	0.2032	0.5345	6,941	2,755	2,472	12,169	0.2032	0.5855
100004	88	CHINA TEL CORP	0.1740	0.3167	9,069	8,740	3,759	21,569	0.1743	0.3288
100010 *		HAMPDEN TEL CO	0.1273	0.2784	18,878	5,223	3,581	27,681	0.1294	0.3006
100011	88	HARTLAND & ST ALBANS	0.1370	0.2916	14,361	7,423	3,458	25,242	0.1370	0.2920
100014	88	CONTEL OF MAINE	0.1713	0.3297	210,401	100,912	68,635	379,948	0.1806	0.3195
100024	88	SOMERSET TEL CO	0.1702	0.3040	38,090	23,235	12,171	73,495	0.1656	0.2857
100025	88	STANDISH TEL CO	0.1933	0.4295	21,964	19,595	9,959	51,517	0.1933	0.4590
100027	88	UNION RIVER TEL CO	0.1875	0.3881	3,216	2,711	1,369	7,296	0.1876	0.3115
100029	88	UNITY TEL CO., INC.	0.1381	0.3149	17,352	9,683	4,479	31,513	0.1421	0.3123
100031	88	WARREN TEL CO	0.1545	0.3145	4,477	5,742	1,683	11,901	0.1414	0.2993
100034	88	WEST PENOBSCOT TEL	0.1148	0.2532	7,803	6,112	1,792	15,706	0.1141	0.2303
120038	88	BRETTON WOODS TEL CO	0.4158	0.6250	392	615	701	1,708	0.4106	0.6739
120039	88	GRANITE STATE TEL	0.2549	0.3894	35,042	16,364	17,584	68,990	0.2549	0.4626
120040 *		CHICHESTER TEL CO	0.1273	0.3063	11,270	3,118	2,137	16,525	0.1294	0.3006
120041	88	CONTEL OF NH	0.2727	0.5042	54,104	22,607	29,071	105,782	0.2748	0.5862
120045	88	KEARSARGE TEL CO	0.2788	0.5455	21,765	17,388	15,135	54,287	0.2788	0.6201
120046	88	MERIDEN TEL CO	0.4108	0.6800	1,719	948	1,857	4,524	0.4105	0.6697
120047	88	MERRIMAK COUNTY TEL	0.2017	0.4557	48,078	21,275	17,849	87,203	0.2047	0.5115
120049	88	UNION TEL CO	0.2838	0.6900	17,920	11,666	11,734	41,320	0.2840	0.6918
120050	88	WILTON TEL CO - NH	0.3223	0.6357	16,332	5,556	12,280	34,169	0.3594	0.6127
140058	88	LUDLOW TEL CO	0.2995	0.4142	11,835	6,374	7,772	25,981	0.2992	0.5099
140061	88	NORTHFIELD TEL CO	0.2965	0.5643	14,502	6,750	8,957	30,210	0.2965	0.6434
140062	88	PERKINSVILLE TEL CO	0.2786	0.4340	2,101	2,698	1,853	6,652	0.2786	0.4994
140068	88	TOPSHAM TEL CO	0.1825	0.3423	7,715	1,976	2,164	11,856	0.1825	0.3745
140069	88	WAITSFIELD/FAYSTON	0.3656	0.6000	16,249	7,327	13,585	37,161	0.3656	0.7451
140070	88	CONTEL OF VERMONT	0.2406	0.4487	186,525	71,885	86,479	344,889	0.2507	0.4951
150072	88	AU SABLE VALLEY TEL	0.1595	0.2996	27,132	17,433	8,457	53,022	0.1595	0.2561
150077	88	CHAMPLAIN TEL CO	0.2037	0.4315	31,371	9,672	11,591	52,634	0.2202	0.4792
150078	88	CHAUTAUQUA & ERIE	0.1691	0.3659	68,995	21,664	18,453	109,112	0.1691	0.3784
150081	88	CITIZENS HAMMOND NY	0.0918	0.2337	4,357	3,609	805	8,771	0.0918	0.1855
150082	88	CLYMER TEL CO	0.2486	0.4434	6,273	2,254	2,856	11,383	0.2509	0.4444
150084	88	TACONIC TEL CORP	0.1702	0.3284	130,028	56,834	38,335	225,197	0.1702	0.3316
150085	88	CROWN POINT TEL CORP	0.1119	0.2610	5,704	2,545	1,040	9,288	0.1119	0.2431
150091	88	DUNKIRK & FREDONIA	0.0865	0.2424	82,572	21,102	9,857	113,531	0.0868	0.2127
150092	88	EDWARDS TEL CO	0.0890	0.2067	9,373	6,799	1,580	17,752	0.0890	0.1496
150093	88	EMPIRE TEL CORP	0.1591	0.2584	26,928	20,978	9,063	56,969	0.1591	0.2469
150097	88	GERMANTOWN TEL CO	0.1316	0.2743	11,538	8,553	3,046	23,137	0.1316	0.2164
150099	88	HANCOCK TEL CO	0.1853	0.2854	7,981	3,726	2,669	14,376	0.1857	0.3120
150100	88	HIGHLAND TEL CO	0.1910	0.2842	472,242	241,814	168,590	882,646	0.1910	0.2909
150105	88	MIDDLEBURGH TEL CO	0.1198	0.2216	25,808	18,456	6,023	50,287	0.1198	0.1767
150106	88	ALLTEL NY-FULTON	0.0901	0.2080	523,568	73,085	59,715	656,368	0.0910	0.1576
150108	88	NICHOLVILLE TEL CO	0.1072	0.2194	11,699	5,090	2,016	18,805	0.1072	0.1877
150109	88	ALLTEL NY-JAMESTOWN	0.1501	0.2495	455,918	70,777	95,020	621,715	0.1528	0.2352
150110	88	OGDEN TEL CO	0.0841	0.2090	230,220	24,659	23,390	278,270	0.0841	0.1510

TABLE 4.17

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 DEM MINUTES (IN THOUSANDS) AND VARIOUS FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	TR DEM
150113	88	ALLTEL NY-RED JACKET	0.0770	0.2246	19,020	8,042	2,259	29,321	0.0770	0.1626
150116	*	PATTERSONVILLE TEL	0.1273	0.3063	9,804	2,712	1,860	14,376	0.1294	0.3006
150119	88	RED HOOK TEL CO	0.1456	0.2794	98,653	48,990	25,275	172,918	0.1462	0.2706
150122	88	SENECA-GORHAM TEL	0.1165	0.2199	42,915	33,894	10,132	86,941	0.1165	0.2273
150128	88	SYLVAN LAKE TEL CO	0.1412	0.2740	182,619	65,409	40,775	288,803	0.1412	0.2725
150133	88	VERNON TEL CO	0.1129	0.2559	16,747	6,813	3,000	26,559	0.1129	0.2346
150135	88	WARWICK VALLEY-NY	0.2092	0.3362	71,058	44,473	30,491	146,021	0.2088	0.3737
150136	88	WESTERN COUNTIES TEL	0.1523	0.2443	143,004	68,590	38,212	249,806	0.1530	0.2271
160135	88	WARWICK VALLEY-NJ	0.1816	0.3362	34,215	46,587	17,925	98,727	0.1816	0.3656
170170	88	CONTEL OF PA	0.1065	0.2574	457,487	157,706	80,913	696,105	0.1162	0.2319
170177	*	LACKAWAXEN TEL CO	0.1273	0.5960	29,374	8,126	5,571	43,072	0.1294	0.3006
170183	88	MAHANAY & MAHANTONGO	0.0622	0.1989	21,927	10,193	2,116	34,236	0.0618	0.1590
170192	88	NORTH PENN TEL CO	0.2194	0.3057	24,432	8,369	9,260	42,061	0.2202	0.3653
170194	88	OSWAYO RIVER TEL CO	0.2412	0.3881	11,501	2,971	4,600	19,072	0.2412	0.4590
170201	88	QUAKER STATE TEL CO	0.1684	0.2911	228,155	65,579	61,264	354,998	0.1726	0.2926
170206	88	SUGAR VALLEY TEL CO	0.1488	0.2569	5,216	2,611	1,359	9,186	0.1480	0.2547
190217	88	AMELIA TEL CORP	0.1078	0.1953	28,492	11,352	4,706	44,550	0.1056	0.1558
190249	88	ROANOKE & BOTETOURT	0.1036	0.2382	77,124	24,697	11,960	113,782	0.1051	0.2257
200259	88	HARDY TEL CO	0.1240	0.2516	22,928	1,451	3,450	27,829	0.1240	0.2797
200270	88	MOUNTAIN STATE TEL	0.1098	0.2308	235,200	41,955	34,618	311,773	0.1110	0.2124
200278	88	CONTEL OF WV	0.1028	0.2340	303,190	63,785	42,220	409,195	0.1032	0.2132
210291	88	FLORALA TEL CO	0.0972	0.2889	17,438	2,757	2,175	22,370	0.0972	0.2377
210318	88	SOUTHLAND TEL-FL	0.0905	0.2721	42,686	3,554	4,602	50,841	0.0905	0.2443
210329	88	GULF TEL CO	0.1210	0.2185	84,203	21,142	14,813	120,157	0.1233	0.2117
210330	88	VISTA-UNITED TELCOM	0.3424	0.5221	92,193	27,187	66,916	186,296	0.3592	0.6842
210331	88	INDIANTOWN SYSTEM	0.1985	0.3671	11,083	12,633	5,710	29,425	0.1941	0.3952
210335	88	NORTHEAST FLORIDA	0.1480	0.2193	44,575	15,433	10,427	70,435	0.1480	0.2173
210336	88	ALLTEL FLORIDA INC.	0.1106	0.2554	487,879	123,842	75,944	687,665	0.1104	0.2156
210338	88	QUINCY TEL CO-FL DIV	0.1035	0.2157	116,938	24,796	17,307	159,041	0.1088	0.1960
210339	88	ST JOSEPH TEL & TEL	0.1242	0.3262	172,216	46,811	31,796	250,823	0.1268	0.2991
220281	88	CONTEL OF SOUTH - GA	0.1019	0.2250	612,983	157,677	89,384	860,043	0.1039	0.1852
220338	88	QUINCY TEL CO-GA DIV	0.1562	0.3632	10,229	784	1,917	12,930	0.1482	0.3243
220344	88	ALMA TEL CO	0.0772	0.1986	56,991	13,507	5,889	76,387	0.0771	0.1584
220347	88	BRANTLEY TEL CO	0.0821	0.2087	30,105	8,233	3,520	41,858	0.0841	0.1768
220351	88	CAMDEN TEL & TEL CO	0.2232	0.4639	103,085	17,494	37,639	158,218	0.2379	0.5421
220355	88	CITIZENS TEL CO - GA	0.0735	0.2166	45,678	10,016	4,473	60,167	0.0743	0.1585
220356	88	COASTAL UTILITIES	0.2612	0.4474	182,578	52,301	83,375	318,254	0.2620	0.5122
220358	88	DARIEN TEL CO	0.1107	0.2603	31,419	9,609	5,076	46,103	0.1101	0.2459
220360	88	ELLIJAY TEL CO	0.0765	0.1962	61,173	16,813	6,448	84,434	0.0764	0.1526
220371	*	INTERSTATE TEL CO	0.1273	0.2486	108,390	29,986	20,558	158,935	0.1294	0.3006
220377	88	PINELAND TEL COOP	0.0729	0.1881	94,335	22,481	9,224	126,040	0.0732	0.1354
220379	88	PLANT TEL. CO.	0.0789	0.1991	73,363	20,457	8,061	101,881	0.0791	0.1621
220381	88	PUBLIC SERVICE TEL	0.0776	0.1934	90,172	22,776	9,440	122,388	0.0771	0.1377
220386	88	STANDARD TEL CO	0.1074	0.2099	386,437	114,230	60,211	560,878	0.1074	0.1928

TABLE 4.17

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 DEM MINUTES (IN THOUSANDS) AND VARIOUS FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	TR DEM
220392	88	WAVERLY HALL TEL CO	0.1256	0.2420	5,366	3,328	1,248	9,943	0.1256	0.1792
220394 *		WILKES TEL & ELC CO	0.1273	0.2059	53,671	14,848	10,180	78,699	0.1294	0.3006
230468	88	ATLANTIC MEMBERSHIP	0.1183	0.2309	157,582	31,755	25,596	214,933	0.1191	0.2167
230469	88	BARNARDSVILLE TEL CO	0.0918	0.2174	11,055	1,342	1,218	13,616	0.0895	0.1532
230473	88	CITIZENS TEL CO	0.1485	0.2489	144,870	20,699	29,488	195,057	0.1512	0.2447
230474	88	CONCORD TEL CO	0.0854	0.1841	870,839	130,457	98,528	1,099,824	0.0896	0.1341
230476	88	ALLTEL CAROLINA-NO	0.1208	0.2196	1,140,447	196,562	183,493	1,520,502	0.1207	0.1820
230481	88	HEINS TEL CO	0.1171	0.2213	300,551	52,324	46,798	399,672	0.1171	0.1923
230502	88	STAR MEMBERSHIP CORP	0.0700	0.1703	148,616	32,636	13,618	194,870	0.0699	0.1747
230509	88	CONTEL OF NC	0.1339	0.2736	981,618	153,065	177,587	1,312,271	0.1353	0.2555
230510	88	WILKES MEMBERSHIP	0.0416	0.1465	112,683	10,286	5,549	128,518	0.0432	0.0840
240512	88	BLUFFTON TEL. CO.	0.2920	0.4861	9,648	7,763	7,091	24,503	0.2894	0.5841
240520	88	FARMERS TEL COOP	0.1138	0.2683	548,781	76,094	80,684	705,558	0.1144	0.2447
240523	88	HARGRAY TEL CO	0.3302	0.5269	202,751	40,156	127,862	370,769	0.3449	0.5841
240526	88	CONTEL OF SC	0.1355	0.2731	181,710	24,822	32,837	239,369	0.1372	0.2731
240528 *		HORRY TEL COOP	0.1273	0.2794	525,734	145,444	99,716	770,894	0.1294	0.2877
240533	88	MCCLELLANVILLE TEL	0.1383	0.2946	9,204	4,209	2,153	15,566	0.1383	0.1447
240539	88	POND BRANCH TEL CO	0.0907	0.2134	77,611	19,777	9,699	107,087	0.0906	0.1769
240551	88	WILLISTON TEL CO	0.0942	0.2214	38,256	9,974	5,054	53,284	0.0949	0.1890
250281	88	CONTEL OF THE SOUTH	0.0811	0.2285	1,115,732	184,904	119,518	1,420,153	0.0842	0.1814
250284 *		BUTLER TEL CO	0.1273	0.2775	41,360	11,442	7,845	60,647	0.1294	0.3006
250297	88	GROVE HILL TEL CORP	0.0910	0.2264	17,014	6,656	2,279	25,949	0.0878	0.1869
250298	88	GULF TEL CO - AL	0.1675	0.3332	220,486	32,006	51,887	304,379	0.1705	0.3529
250300	88	HOPPER TEL. CO INC	0.0699	0.1797	24,792	8,073	2,469	35,334	0.0699	0.1260
250304	88	MILLRY TEL CO	0.1043	0.3006	52,354	10,685	7,342	70,381	0.1043	0.2749
250306	88	MONROEVILLE TEL CO	0.1077	0.2443	163,741	24,678	26,216	214,635	0.1221	0.2440
250314	88	PEOPLES TEL CO	0.1028	0.2145	126,632	17,404	16,443	160,479	0.1025	0.2015
250316	88	RAGLAND TEL CO	0.0714	0.2117	9,691	3,197	991	13,879	0.0714	0.1522
250318	88	SOUTHLAND TEL CO-AL	0.0965	0.2604	152,422	24,897	18,978	196,298	0.0967	0.2230
250461	88	SOUTHEAST MS TEL CO	0.1145	0.2963	33,462	6,971	5,133	45,566	0.1126	0.3813
260410	88	CONTEL OF KENTUCKY	0.1021	0.2001	830,076	125,744	110,509	1,066,328	0.1036	0.1673
270422	88	ATHENS TEL CO	0.1328	0.2819	1,871	1,362	495	3,727	0.1328	0.2247
270423	88	CENTRAL LOUISIANA	0.1036	0.2037	160,119	35,434	22,595	218,148	0.1036	0.1710
270424	88	COASTAL TEL & ELECTR	0.0858	0.1889	100,122	28,147	12,046	140,315	0.0858	0.1521
270425	88	CAMERON TEL CO - LA	0.1613	0.3223	53,548	18,489	13,857	85,894	0.1613	0.2743
270429	88	EAST ASCENSION TEL	0.0996	0.2052	295,622	59,114	39,242	393,979	0.0996	0.1564
270430 *		ELIZABETH TEL CO	0.1273	0.2134	11,919	3,297	2,261	17,478	0.1294	0.3006
270431	88	CADDOAN TEL CO	0.1455	0.2815	95,124	18,907	19,414	133,445	0.1455	0.2798
270433	88	LAFOURCHE TEL CO	0.0738	0.2492	116,265	21,254	10,964	148,483	0.0738	0.1953
270434	88	EVANGELINE TEL CO	0.0907	0.1782	150,666	36,286	18,468	205,420	0.0899	0.1419
270435	88	NORTHEAST LOUISIANA	0.1069	0.2711	9,469	3,942	1,604	15,015	0.1069	0.2246
270436	88	CENTURY NORTH LA	0.1621	0.2870	8,131	2,738	2,102	12,971	0.1621	0.2804
270437	88	PLAIN DEALING TEL CO	0.1261	0.2118	17,579	4,036	3,119	24,733	0.1261	0.2103
270440	88	CENTURY TEL CO	0.0975	0.1790	23,243	7,483	3,307	34,033	0.0972	0.1547

TABLE 4.17

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 DEM MINUTES (IN THOUSANDS) AND VARIOUS FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	TR DEM
270442	88	LOUISIANA WESTERN	0.1260	0.2279	16,951	5,257	3,195	25,402	0.1258	0.2166
270443	88	UTC OF LOUISIANA	0.1169	0.2455	27,842	7,460	4,673	39,974	0.1169	0.2228
280446	88	BAY SPRINGS TEL CO	0.0717	0.2166	112,843	19,415	10,218	142,476	0.0717	0.1738
280452	88	DELTA TEL CO	0.0876	0.2621	35,388	5,349	3,912	44,649	0.0876	0.2111
280454	88	FRANKLIN TEL CO - MS	0.0990	0.2235	64,386	13,580	8,565	86,531	0.0990	0.2036
280458	88	HOME TEL CO-OLIVE BR	0.2468	0.4892	92,352	10,971	31,224	134,547	0.2472	0.4822
280459	88	HUGHES TEL CO	0.0829	0.2069	76,899	5,830	7,482	90,212	0.0829	0.1721
290552	88	ADAMSVILLE TEL CO	0.0943	0.2456	82,427	7,863	9,429	99,718	0.0971	0.2248
290571	88	MILLINGTON TEL CO	0.1515	0.3381	269,080	24,225	51,571	344,876	0.1495	0.2609
290575	88	TENNESSEE TEL CO	0.0992	0.2026	544,056	56,309	65,992	666,357	0.0990	0.1718
290579	88	TWIN LAKES TEL COOP	0.0881	0.2032	279,307	37,067	30,047	346,421	0.0867	0.1735
300597 *		THE CHILLICOTHE TEL	0.1273	0.1786	172,467	47,713	32,712	252,891	0.1294	0.2877
300607 *		CONTEL OF OHIO	0.1273	0.1950	11,445	3,166	2,171	16,783	0.1294	0.3006
300613	88	FAYETTEVILLE TEL CO	0.1018	0.1877	11,176	3,101	1,619	15,896	0.1018	0.1477
300620	88	HARLAN TEL CO	0.1120	0.3226	7,210	2,263	1,173	10,645	0.1102	0.2807
300665	88	ALLTEL OHIO-WEST OH	0.1209	0.2200	144,996	55,981	27,646	228,623	0.1209	0.1966
300682	88	C, C & S TELCO -OHIO	0.2017	0.2726	2,413	1,290	936	4,639	0.2017	0.2415
310679	88	BLOOMINGDALE TEL CO	0.1254	0.2567	5,562	7,196	1,839	14,597	0.1260	0.2410
310680	88	CHIPPEWA COUNTY TEL	0.1446	0.2585	3,025	2,496	934	6,454	0.1446	0.2418
310681	88	ALLTEL MICHIGAN INC.	0.1220	0.2441	299,102	153,546	62,881	515,529	0.1220	0.2015
310682	88	C, C & S TELCO - MI	0.1138	0.2187	127,208	52,170	23,025	202,403	0.1138	0.1917
310683	88	CARR TEL CO	0.1107	0.3456	3,466	3,563	873	7,902	0.1104	0.3309
310685	88	CHATHAM TEL CO - MI	0.1022	0.2412	16,352	5,268	2,457	24,078	0.1021	0.1989
310687	88	CLAYTON TEL CO	0.1198	0.2316	1,893	2,906	653	5,452	0.1198	0.1894
310699	88	HICKORY TEL CO	0.0868	0.2104	14,369	3,694	1,649	19,713	0.0837	0.1500
310702	88	CENTURY OF MICHIGAN	0.0952	0.2204	232,352	150,154	40,285	422,791	0.0953	0.1771
310704	88	ACE TEL OF MICHIGAN	0.0870	0.2287	10,094	11,345	2,049	23,488	0.0873	0.1776
310711	88	MIDWAY TEL CO	0.1277	0.2770	3,891	1,846	840	6,577	0.1277	0.2567
310713 *		HIAMATHA TEL CO	0.1273	0.2818	25,251	6,986	4,789	37,026	0.1294	0.3006
310714 *		OGDEN TEL CO	0.1273	0.3063	3,234	895	613	4,741	0.1294	0.3006
310717	88	ONTONAGON COUNTY TEL	0.1314	0.2869	30,541	6,686	5,629	42,856	0.1314	0.2824
310721	88	PIGEON TEL CO	0.0942	0.1981	12,307	11,417	2,458	26,183	0.0939	0.1534
310728	88	SPRINGPORT TEL CO	0.0753	0.2168	7,826	6,614	1,176	15,616	0.0753	0.1718
310732 *		UPPER PENINSULA TEL	0.1273	0.3325	35,015	9,687	6,641	51,344	0.1294	0.3006
310737	88	WINN TEL CO	0.1729	0.0938	1,701	3,433	1,074	6,208	0.1729	0.3450
310738	88	WOLVERINE TEL CO	0.0636	0.1827	65,588	31,231	6,539	103,358	0.0633	0.1300
320753	88	CLAY CTY RURAL COOP	0.0822	0.2637	79,843	23,225	9,231	112,300	0.0822	0.2200
320762	88	ELNORA TEL CO	0.0912	0.1758	3,322	1,027	438	4,787	0.0915	0.1447
320776 *		COMM CORP OF INDIANA	0.1273	0.3063	56,703	15,687	10,755	83,144	0.1294	0.3006
320778	88	HOME TEL CO INC	0.0707	0.1658	20,422	4,528	1,879	26,829	0.0700	0.1236
320779	88	CONTEL OF INDIANA	0.1150	0.2675	1,501,217	314,848	273,282	2,089,347	0.1308	0.2273
320797	88	NEW PARIS TEL INC	0.1223	0.2507	15,878	3,650	3,055	22,583	0.1353	0.2270
320800	88	NORTHWESTERN INDIANA	0.1483	0.3464	69,081	29,182	17,103	115,366	0.1483	0.3063
330841	88	CENCOM OF WISCONSIN	0.0979	0.2439	146,751	44,618	21,100	212,469	0.0993	0.2165

TABLE 4.17

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 DEM MINUTES (IN THOUSANDS) AND VARIOUS FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	TR DEM
330844	88	BADGER TELECOM, INC.	0.0741	0.1839	33,620	7,978	3,327	44,925	0.0741	0.1477
330851	88	BONDUEL TEL CO	0.0691	0.1552	11,755	3,576	1,116	16,447	0.0679	0.1238
330856	88	BURLINGTON B&W	0.2081	0.2854	16,116	8,964	6,590	31,669	0.2081	0.3084
330859	88	CENTRAL STATE TEL CO	0.1253	0.2201	51,279	18,705	7,658	77,641	0.0986	0.1759
330860	88	CHEQUAMEGON TEL COOP	0.2051	0.3604	23,403	9,994	8,616	42,013	0.2051	0.3989
330870	88	CRANDON TEL CO	0.0959	0.2035	15,052	5,022	2,126	22,200	0.0958	0.1770
330876	88	DODGE COUNTY TEL CO	0.0663	0.1563	7,440	2,359	699	10,498	0.0666	0.1035
330882	88	FENNIMORE TEL CO	0.0983	0.2385	12,273	4,844	1,871	18,988	0.0985	0.1866
330888	88	GREENWOOD TEL CO	0.0858	0.1906	9,667	2,556	1,100	13,322	0.0825	0.1502
330891 *		HEADWATERS TEL CO	0.1273	0.2965	24,172	6,687	4,585	35,444	0.1294	0.3006
330895	88	CENTURY OF WISCONSIN	0.1608	0.2578	485,966	76,081	129,339	691,386	0.1871	0.2914
330898	88	LARSEN-READFIELD TEL	0.0759	0.1794	11,806	6,603	1,512	19,921	0.0759	0.1281
330908	88	MARQUETTE-ADAMS COOP	0.2920	0.4478	10,206	5,687	6,491	22,384	0.2900	0.4506
330909	88	MIDWAY TEL CO	0.1314	0.2200	56,645	17,003	11,144	84,792	0.1314	0.1990
330913	88	MONROE COUNTY TEL CO	0.1674	0.2888	71,945	18,995	18,280	109,220	0.1674	0.2791
330914	88	MOSEL & CENTERVILLE	0.0955	0.2157	29,273	7,622	3,896	40,791	0.0955	0.1763
330916 *		MOUNT HOREB TEL CO	0.1273	0.2690	20,995	5,808	3,982	30,785	0.1294	0.3006
330917	88	MT VERNON TEL CO	0.1103	0.2295	53,170	11,227	7,982	72,379	0.1103	0.1859
330922 *		NORTH-WEST TEL CO	0.1273	0.2484	387,785	107,280	73,551	568,617	0.1294	0.2747
330931	88	PEOPLES TEL CO	0.1022	0.2181	39,123	14,719	6,131	59,973	0.1022	0.1885
330934 *		PLATTEVILLE TEL CO	0.1273	0.3015	61,435	16,996	11,652	90,083	0.1294	0.3006
330936	88	INDIANHEAD TEL CO	0.1535	0.3163	7,666	4,127	2,139	13,932	0.1535	0.2838
330937	88	PRICE COUNTY TEL CO	0.1310	0.2755	22,587	6,613	4,403	33,604	0.1310	0.2764
330940 *		RHINELANDER TEL CO	0.1273	0.2376	79,322	21,944	15,045	116,311	0.1294	0.3006
330945	88	SCANDINAVIA TEL CO	0.1245	0.2550	13,234	6,231	2,638	22,103	0.1194	0.2348
330950	88	OLON SPRINGS TEL CO	0.1962	0.3260	81,889	25,705	26,256	133,850	0.1962	0.3356
330952	88	SE TEL OF WISCONSIN	0.1115	0.2097	48,140	17,654	8,258	74,052	0.1115	0.1970
330954	88	STOCKBRIDGE & SHERWD	0.0792	0.1151	15,937	6,245	1,905	24,087	0.0791	0.1062
330956	88	UNIVERSAL OF N WISC	0.1475	0.2759	60,911	24,135	14,712	99,759	0.1475	0.2503
330963	88	UTELCO, INC	0.0996	0.2664	93,119	24,563	20,358	138,041	0.1475	0.2613
330964	88	URBAN TEL CORP	0.0806	0.2203	135,709	48,324	16,803	200,836	0.0837	0.1692
330965	88	VALDERS TEL CO	0.0747	0.1820	15,515	5,069	1,627	22,212	0.0733	0.1186
330974	88	WOOD COUNTY TEL CO	0.0969	0.2208	191,305	37,235	29,987	258,527	0.1160	0.1679
341000 *		ALLTEL ILLINOIS INC.	0.1273	0.3111	430,485	119,093	81,650	631,229	0.1294	0.2877
341004	88	EL PASO TEL CO	0.1147	0.2476	10,279	6,254	2,142	18,675	0.1147	0.1646
341011	88	LAKESIDE TEL CO	0.1093	0.2227	5,401	2,509	970	8,881	0.1093	0.1692
341023	88	GRIDLEY TEL CO	0.1231	0.2539	5,139	5,184	1,450	11,773	0.1231	0.2437
341036	88	CONTEL OF ILLINOIS	0.1259	0.2622	1,199,164	559,877	262,442	2,021,484	0.1298	0.2211
341037	88	IL CONSOLIDATED TEL	0.1088	0.2331	693,940	247,195	118,603	1,059,737	0.1119	0.1886
341038	88	INLAND TEL CO	0.0984	0.5716	20,269	19,659	4,359	44,287	0.0984	0.1570
341045	88	LEAF RIVER VLY TEL	0.1067	0.2248	2,460	2,323	571	5,354	0.1067	0.1742
341055	88	MIDLAND TEL CO	0.0852	0.2124	23,350	17,562	3,810	44,721	0.0852	0.1345
341060	88	MOULTRIE INDEPENDENT	0.0770	0.1914	4,332	2,408	562	7,302	0.0770	0.1375
341073	88	PRAIRIE TEL CO	0.0949	0.2091	6,466	3,127	1,005	10,598	0.0949	0.1629

TABLE 4.17

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 DEM MINUTES (IN THOUSANDS) AND VARIOUS FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	TR DEM
351105	88	AYRSHIRE FARMERS MUT	0.1204	0.2372	1,454	1,387	389	3,230	0.1204	0.1907
351110 *		BERNARD TEL CO INC	0.1273	0.2082	3,014	834	572	4,419	0.1294	0.3006
351127	88	CENDEL OF IOWA	0.1552	0.3661	391,329	118,678	99,291	609,299	0.1670	0.2440
351207	88	CONTEL OF IOWA, INC.	0.1026	0.2397	544,748	197,373	87,463	829,584	0.1054	0.1954
351229 *		LOST NATION-ELWOOD	0.1273	0.1907	3,878	1,073	736	5,687	0.1294	0.3006
351316 *		UNITED FARMERS TEL	0.1273	0.2926	5,798	1,604	1,100	8,501	0.1294	0.3006
351327	88	WEBB-DICKENS TEL	0.1657	0.2631	1,421	2,079	695	4,196	0.1657	0.2438
351346	88	ACE TEL ASSN-IA	0.1092	0.2121	28,317	8,075	4,466	40,859	0.1093	0.1938
351888	88	GRAND RIVER MUT-IA	0.1526	0.3326	46,202	13,494	10,747	70,443	0.1526	0.3105
361140	88	CONTEL OF MINNESOTA	0.1098	0.2240	770,400	294,844	137,184	1,202,428	0.1141	0.1724
361346	88	ACE TEL ASSN-MN	0.1857	0.2559	77,957	17,231	21,716	116,904	0.1858	0.2637
361350 *		ARVIG TEL CO	0.1273	0.3211	45,595	12,614	8,648	66,857	0.1294	0.3006
361370	88	CLARA CITY TEL EXCH	0.0877	0.2755	8,350	4,354	1,248	13,952	0.0894	0.2593
361374	88	ARROWHEAD COMM CORP	0.1401	0.2668	2,038	1,784	623	4,445	0.1401	0.2295
361379	88	DEER RIVER TEL CO	0.0982	0.2304	13,957	2,740	1,819	18,515	0.0982	0.1630
361385 *		EAST OTTER TAIL TEL	0.1273	0.2639	86,583	23,953	16,422	126,958	0.1294	0.2941
361395	88	GARDEN VALLEY TEL CO	0.1037	0.2402	94,433	37,421	15,260	147,113	0.1037	0.2081
361410	88	JOHNSON TEL CO	0.1373	0.2902	5,883	2,550	1,363	9,796	0.1392	0.2846
361414	88	LAKEDALE TEL CO	0.0734	0.2013	57,878	35,199	7,811	100,888	0.0774	0.1591
361433	88	MID STATE TEL CO	0.0875	0.2124	39,894	12,836	5,055	57,786	0.0875	0.1694
361442	88	NEW ULM TELECOM, INC	0.1133	0.2566	69,676	21,646	13,704	105,026	0.1305	0.2555
361443	88	NORMAN COUNTY TEL CO	0.1245	0.2461	32,466	6,477	5,661	44,604	0.1269	0.2463
361451	88	PAUL BUNYAN RURAL	0.0952	0.2400	43,995	11,694	5,861	61,549	0.0952	0.2112
361483	88	SLEEPY EYE TEL CO	0.0919	0.1994	35,330	15,595	5,726	56,651	0.1011	0.1678
361491 *		TWIN VALLEY-ULEN TEL	0.1273	0.2234	18,877	5,222	3,580	27,680	0.1294	0.3006
371516	88	ARAPAHOE TEL CO	0.1226	0.2994	6,720	2,467	1,283	10,471	0.1226	0.0699
371517	88	ARLINGTON TEL CO	0.1400	0.2822	6,152	3,691	1,537	11,380	0.1351	0.2307
371524	88	BLAIR TEL CO	0.1577	0.2986	46,077	15,339	11,500	72,916	0.1577	0.3088
371525	88	THREE RIVER TELCO	0.1522	0.3441	7,327	3,108	1,873	12,308	0.1522	0.3275
371526 *		CAMBRIDGE TEL CO -NE	0.1273	0.3063	7,819	2,163	1,483	11,465	0.1294	0.3006
371531 *		CLARKS TEL CO	0.1273	0.2077	5,171	1,431	981	7,583	0.1294	0.3006
371534	88	COZAD TEL CO	0.1487	0.3006	16,047	6,411	3,922	26,380	0.1487	0.0847
371536	88	CURTIS TEL CO	0.1263	0.2037	5,006	2,108	1,028	8,143	0.1263	0.0720
371537	88	DALTON TEL CO, INC	0.1796	0.4049	7,747	4,073	2,588	14,408	0.1796	0.3770
371540	88	DILLER TEL CO	0.1177	0.2936	5,023	2,526	1,007	8,556	0.1177	0.2410
371542	88	EASTERN NEBRASKA TEL	0.1535	0.3221	16,633	6,876	4,264	27,773	0.1535	0.3042
371557	88	HARTMAN TEL EXCH INC	0.2539	0.4267	2,541	1,045	1,220	4,807	0.2539	0.1447
371558	88	HEMINGFORD COOP TEL	0.1206	0.2765	9,186	1,346	1,444	11,976	0.1206	0.2571
371567 *		KEYSTONE-ARTHUR TEL	0.1273	0.4624	3,255	901	617	4,773	0.1294	0.3006
371574	88	NEBRASKA CENTRAL TEL	0.1880	0.2559	22,986	9,022	7,412	39,420	0.1880	0.3023
371577	88	GREAT PLAINS COMMUN	0.1482	0.2692	167,954	67,821	41,012	276,786	0.1482	0.2424
371580	88	PETERSBURG TEL CO	0.0783	0.2320	2,520	1,573	348	4,441	0.0783	0.0447
371586	88	ROCK COUNTY TEL CO	0.1352	0.2770	7,996	3,181	1,764	12,942	0.1363	0.2440
371591 *		SE NEBRASKA TEL CO	0.1273	0.3124	24,297	6,722	4,608	35,628	0.1294	0.3006

TABLE 4.17

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 DEM MINUTES (IN THOUSANDS) AND VARIOUS FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	TR DEM
371592	88	STANTON TEL CO, INC	0.1726	0.2054	7,335	2,876	2,129	12,341	0.1726	0.0984
371597	88	WAUNETA TEL CO	0.1573	0.3317	4,386	1,553	1,109	7,047	0.1573	0.0897
372455	88	BENKELMAN TEL CO	0.1677	0.3683	7,940	1,829	2,001	11,770	0.1700	0.4063
381447	88	CONTEL OF N. DAKOTA	0.1112	0.2758	95,064	22,167	14,669	131,900	0.1112	0.2679
381607 *		CONSOLIDATED COOP	0.1273	0.3077	37,787	10,454	7,167	55,409	0.1294	0.3006
381616	88	INTER-COMMUNITY TEL	0.1171	0.2275	9,447	4,117	1,799	15,363	0.1171	0.2026
381617	88	MIDSTATE TEL CO	0.1812	0.3676	8,727	3,796	2,771	15,295	0.1812	0.3932
381630 *		POLAR COMM MUT AID	0.1273	0.2475	71,871	19,883	13,632	105,385	0.1294	0.3006
381632 *		RESERVATION TEL COOP	0.1273	0.3118	39,749	10,996	7,539	58,284	0.1294	0.3006
381634 *		SOURIS RIVER TEL MUT	0.1273	0.3774	166,528	46,070	31,585	244,184	0.1294	0.2941
381637	88	W. RIVER MUTUAL AID	0.1300	0.3303	82,577	19,361	15,228	117,167	0.1300	0.3078
391643	88	CONTEL OF S. DAKOTA	0.1854	0.3396	58,129	19,582	17,643	95,354	0.1850	0.3407
391647	88	CHEYENNE RIVER SIOUX	0.1207	0.2808	20,548	4,052	3,376	27,976	0.1207	0.2290
391659	88	GOLDEN WEST TELECOMM	0.1887	0.3473	94,744	25,921	28,167	148,832	0.1893	0.3376
391666	88	JEFFERSON TEL CO -SD	0.3924	0.6544	2,189	596	1,798	4,583	0.3924	0.6998
391667	88	KADOKA TELEPHONE CO	0.2245	0.5737	2,532	1,012	1,021	4,565	0.2237	0.4716
391668	88	KENNEBEC TEL CO	0.1396	0.2834	1,264	902	351	2,518	0.1396	0.2460
391689	88	WEST RIVER COOP	0.1576	0.3012	14,973	3,225	3,402	21,600	0.1575	0.2714
401691	88	ALLTEL ARKANSAS INC	0.1352	0.2951	617,210	172,140	127,751	917,101	0.1393	0.2535
401692	88	ARKANSAS TEL CO	0.1389	0.4216	54,072	8,787	11,040	73,899	0.1494	0.4308
401697	88	CENTRAL ARKANSAS TEL	0.0881	0.2482	20,043	5,523	2,470	28,035	0.0881	0.1866
401698	88	CLEVELAND COUNTY TEL	0.0937	0.2843	16,391	7,440	2,365	26,197	0.0903	0.2188
401699	88	DECATUR TEL CO INC	0.2091	0.5809	3,727	2,413	1,623	7,763	0.2091	0.5626
401702	88	SOUTH ARKANSAS TEL	0.1007	0.2712	29,002	8,076	4,152	41,229	0.1007	0.2313
401705	88	LIBERTY TEL & COMM	0.1592	0.3252	106,490	20,927	24,129	151,546	0.1592	0.3217
401709	88	MADISON COUNTY TEL	0.1454	0.2831	21,072	5,757	4,564	31,394	0.1454	0.2679
401711	88	MOUNTAIN HOME TEL	0.2587	0.4002	87,606	18,931	37,001	143,539	0.2578	0.4258
401713	88	NORTH ARKANSAS TEL	0.2425	0.4361	24,949	10,826	11,455	47,230	0.2425	0.4371
401720	88	REDFIELD TEL CO	0.1163	0.3345	9,979	4,941	1,963	16,883	0.1163	0.3166
401726	88	TRI-COUNTY TEL CO-AR	0.1231	0.2550	35,438	6,843	5,924	48,206	0.1229	0.2405
401727	88	UNION TEL CO INC	0.2019	0.3436	6,795	2,204	2,267	11,266	0.2012	0.3685
401729	88	WALNUT HILL TEL CO	0.1849	0.3863	32,491	10,932	9,847	53,270	0.1849	0.4041
401730	88	CONTEL OF ARKANSAS	0.1275	0.2879	783,674	198,239	143,493	1,125,406	0.1275	0.2495
401733	88	YELCOT TEL CO INC	0.1506	0.3318	25,049	5,735	5,459	36,243	0.1506	0.3207
401734	88	YELL COUNTY TEL CO	0.0988	0.2404	36,029	10,582	5,145	51,756	0.0994	0.1956
411741	88	ASSARIA TEL EXCHANGE	0.1708	0.3082	2,092	2,401	925	5,418	0.1708	0.2583
411746	88	BLUE VALLEY TEL CO	0.1291	0.2704	12,859	9,377	3,295	25,531	0.1291	0.2274
411761	88	CUNNINGHAM TEL CO	0.1351	0.2806	6,915	4,418	1,700	13,032	0.1304	0.2244
411764	88	ELKHART TEL CO INC	0.2719	0.4405	8,081	2,552	3,971	14,605	0.2719	0.5335
411781	88	H & B COMMUNICATIONS	0.1563	0.3029	3,876	3,116	1,267	8,260	0.1534	0.2480
411782	88	HOME TEL CO	0.1169	0.2866	6,261	4,922	1,480	12,663	0.1169	0.2264
411785	88	J. B. N. TEL CO INC	0.1229	0.2689	12,443	12,724	3,526	28,693	0.1229	0.2240
411788	88	KANOKLA TEL ASSN-KS	0.1638	0.3296	12,532	5,843	3,528	21,902	0.1638	0.3256
411789	88	KANSAS STATE TEL CO	0.2242	0.3925	41,385	7,579	14,889	63,854	0.2332	0.4603

TABLE 4.17

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 DEM MINUTES (IN THOUSANDS) AND VARIOUS FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	TR DEM
411790	88	CONTEL OF KANSAS	0.1369	0.2937	256,343	177,256	70,033	503,631	0.1391	0.2576
411801	88	MADISON TEL CO INC	0.1364	0.2831	4,359	1,791	971	7,122	0.1364	0.2655
411807	88	MOKAN DIAL INC-KS	0.1775	0.3028	11,836	7,263	4,121	23,221	0.1775	0.2978
411808	88	MOUNDRIDGE TEL CO	0.1897	0.2843	13,883	6,550	4,824	25,258	0.1910	0.3032
411814	88	PEOPLES MUTUAL TEL	0.1934	0.3752	6,179	2,680	2,124	10,984	0.1934	0.3281
411817	88	PIONEER TEL ASSN INC	0.1765	0.3999	85,758	28,082	24,404	138,244	0.1765	0.4017
411818	88	CRAW-KAN TEL COOP	0.1498	0.2854	75,042	36,022	19,569	130,633	0.1498	0.2940
411826	88	RURAL TEL SERVICE CO	0.1189	0.2666	39,353	21,117	8,160	68,630	0.1189	0.2230
411827	88	S & T TEL COOP ASSN	0.1651	0.3481	7,131	6,069	2,610	15,810	0.1651	0.2994
411831 *		S. CENTRAL TEL - KS	0.1273	0.2894	6,884	1,904	1,306	10,094	0.1294	0.3006
411835	88	SUNFLOWER TEL CO	0.1673	0.3567	30,282	10,009	8,096	48,387	0.1673	0.3710
411840	88	TWIN VALLEY TEL INC	0.1251	0.2517	11,057	6,292	2,403	19,752	0.1216	0.2087
411841	88	UNITED TEL ASSN	0.1630	0.3840	25,344	16,684	8,184	50,211	0.1630	0.3511
411847	88	THE WHEAT STATE TEL	0.1309	0.2794	10,234	7,355	2,648	20,237	0.1309	0.2210
411849	88	WILSON TEL CO INC	0.1173	0.2499	12,033	6,251	2,340	20,624	0.1135	0.2040
411852	88	ZENDA TEL COMPANY	0.0936	0.2178	981	1,097	214	2,292	0.0936	0.1589
412030	88	TOTAH TELEPHONE CO	0.2166	0.3977	4,917	4,134	2,444	11,495	0.2126	0.3720
421807	88	MOKAN DIAL INC-MO	0.1480	0.2431	4,692	2,416	1,235	8,343	0.1480	0.2137
421846	88	CONTINENTAL SYS. -MO	0.1186	0.3074	346,951	102,447	60,482	509,880	0.1186	0.2617
421859	88	BOURBEUSE TEL	0.1171	0.2768	9,426	6,384	2,097	17,907	0.1171	0.2067
421865	88	CITIZENS TEL CO - MO	0.1535	0.2410	14,683	11,211	4,697	30,591	0.1535	0.2319
421873	88	EASTERN MISSOURI TEL	0.1051	0.2093	14,022	9,619	2,800	26,440	0.1059	0.1646
421882	88	FIDELITY TEL CO	0.1076	0.2272	76,144	27,361	12,480	115,985	0.1076	0.2086
421885	88	ALLTEL MISSOURI	0.1216	0.2441	199,640	67,736	36,998	304,373	0.1216	0.2116
421886	88	GOODMAN TEL CO	0.2098	0.3756	6,540	4,626	2,964	14,130	0.2098	0.3393
421888	88	GRAND RIVER MUT-MO	0.0993	0.2467	105,720	29,558	14,922	150,200	0.0993	0.2048
421901	88	KINGDOM TELEPHONE CO	0.1321	0.3510	15,691	11,268	3,609	30,568	0.1321	0.2861
421904	88	MISSOURI TEL CO	0.1147	0.2348	132,062	33,386	21,870	187,319	0.1168	0.2074
421908	88	LE-RU TELEPHONE CO	0.2442	0.4168	5,299	2,458	2,506	10,263	0.2442	0.4284
421922	88	CONTEL OF MISSOURI	0.1800	0.2715	1,040,377	474,737	332,610	1,847,724	0.1800	0.2421
421929 *		HOLWAY TEL CO	0.1273	0.2752	3,895	1,078	739	5,712	0.1294	0.3006
421931	88	NE MISSOURI RURAL	0.1388	0.2759	26,457	8,549	5,641	40,646	0.1388	0.2575
421934 *		ORCHARD FARM TEL CO	0.1273	0.2641	3,144	870	596	4,610	0.1294	0.3006
421951	88	STOUTLAND TEL CO	0.0908	0.2728	7,013	2,876	988	10,877	0.0908	0.1998
421963 *		WEBSTER COUNTY TEL	0.1273	0.3283	30,432	8,419	5,772	44,623	0.1294	0.3006
431788	88	KANOKLA TEL ASSN-OK	0.2021	0.3219	6,325	3,782	2,560	12,666	0.2021	0.3360
431831 *		S. CENTRAL TEL - OK	0.1273	0.3644	4,473	1,238	848	6,559	0.1294	0.3006
431965	88	ALLTEL OKLAHOMA INC	0.1331	0.3094	76,187	47,651	18,980	142,818	0.1329	0.2439
431966	88	ATLAS TEL CO	0.2178	0.4870	7,935	5,362	3,703	17,001	0.2178	0.2418
431974	88	CANADIAN VALLEY TEL	0.1563	0.3325	2,108	2,021	765	4,894	0.1563	0.2694
431976	88	CARNEGIE TEL CO INC	0.1131	0.2629	11,170	4,921	2,052	18,144	0.1131	0.2413
431979	88	CHEROKEE TEL CO	0.2231	0.3608	30,048	10,712	11,713	52,474	0.2232	0.2478
431980	88	CHICKASAW TEL CO	0.1281	0.3008	47,130	29,719	9,576	86,426	0.1277	0.2730
431981	88	CHOUTEAU TEL CO	0.1180	0.2927	16,618	8,774	3,545	28,937	0.1225	0.2573

TABLE 4.17

 1988 MONTIER 1 COMPANIES NETWORK USAGE DATA
 DEM MINUTES (IN THOUSANDS) AND VARIOUS FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	TR DEM
431984	88	OKLAMOMA COMM SYSTEM	0.1168	0.2417	110,137	47,211	20,838	178,185	0.1170	0.2004
431985	88	CROSS TEL CO	0.1192	0.2681	51,311	25,007	10,329	86,647	0.1192	0.2300
431988	88	DOBSON TEL CO	0.1204	0.3488	34,367	12,731	6,445	53,543	0.1204	0.2918
431994	88	GRAND TEL CO INC	0.1600	0.4016	13,830	7,582	4,065	25,477	0.1596	0.1771
431995	88	HINTON TEL CO	0.0987	0.2294	23,519	10,662	3,742	37,923	0.0987	0.1095
432006	88	MICLOUD TEL CO	0.1049	0.2116	69,918	16,226	10,092	96,236	0.1049	0.1696
432010	88	MID-AMERICA TEL INC	0.1069	0.3037	7,656	6,111	1,648	15,415	0.1069	0.2227
432011	88	OKLAHOMA ALLTEL, INC	0.1481	0.2975	100,967	34,780	23,567	159,313	0.1479	0.2877
432013	88	OKLAHOMA TEL & TEL	0.1112	0.2720	10,644	6,460	2,140	19,244	0.1112	0.2597
432014	88	OKLAHOMA WESTERN TEL	0.1519	0.3455	13,618	8,517	3,963	26,098	0.1519	0.1686
432016	88	PANHANDLE TEL COOP	0.2815	0.4801	21,894	15,542	14,271	51,707	0.2760	0.3064
432018	88	PIONEER TEL COOP INC	0.0946	0.2669	289,122	124,042	43,309	456,472	0.0949	0.2259
432020	88	POTTAWATOMIE TEL CO	0.1154	0.2549	10,148	6,875	2,220	19,243	0.1154	0.2105
432030	88	TOTAH TELEPHONE CO	0.1699	0.3131	6,839	8,592	3,158	18,590	0.1699	0.2765
432032	88	VALLIANT TEL CO	0.1241	0.3182	18,527	5,216	3,140	26,884	0.1241	0.2972
432034	88	WYANDOTTE TEL CO	0.2752	0.5793	1,712	1,313	1,143	4,168	0.2752	0.5007
440425 *		CAMERON TEL CO TEXAS	0.1273	0.2378	3,421	946	649	5,016	0.1294	0.3006
442039	88	BIG BEND TEL CO INC	0.1877	0.3509	12,887	9,256	3,906	26,049	0.1877	0.3597
442040	88	BRAZORIA TEL CO	0.0619	0.1835	53,558	17,151	4,648	75,357	0.0617	0.1318
442041	88	BRAZOS TEL COOP INC	0.1144	0.1962	1,423	5,172	852	7,447	0.1144	0.1640
442046	88	CAP ROCK TEL CO INC	0.0958	0.1987	13,156	9,881	1,537	24,574	0.0958	0.1567
442052	88	CENTRAL TEXAS CO-OP	0.0584	0.1836	16,757	7,994	1,535	26,286	0.0584	0.1094
442059	88	COLORADO VALLEY TEL	0.0778	0.1813	27,940	15,678	3,677	47,295	0.0777	0.1445
442066	88	DELL TEL. CO-OP - TX	0.2083	0.4302	3,240	1,353	1,208	5,801	0.2083	0.4286
442068 *		EASTEX TEL COOP INC	0.1273	0.2203	94,710	26,201	17,964	138,875	0.1294	0.2877
442070	88	ETEX TEL COOP INC	0.0940	0.1924	76,153	40,386	12,083	128,622	0.0939	0.1565
442071	88	FIVE AREA TEL CO-OP	0.1200	0.2596	9,111	4,149	1,808	15,069	0.1200	0.2197
442072	88	FORT BEND TEL CO	0.0981	0.2688	216,712	43,208	28,017	287,937	0.0973	0.2317
442076	88	GANADO TELEPHONE CO	0.0697	0.1631	7,375	5,175	934	13,485	0.0693	0.0997
442083	88	GUADALUPE VALLEY TEL	0.1323	0.2367	70,402	73,160	21,872	165,434	0.1322	0.2027
442086 *		HILL COUNTRY CO-OP	0.1273	0.2502	36,523	10,104	6,927	53,554	0.1294	0.3006
442093	88	INDUSTRY TEL CO	0.0720	0.1810	4,821	4,274	701	9,795	0.0716	0.1073
442097	88	KERRVILLE TEL CO	0.1046	0.3063	114,642	49,342	19,644	183,629	0.1070	0.2492
442101	88	LAKE DALLAS TEL CO	0.2240	0.3318	13,540	25,277	7,628	46,446	0.2240	0.3735
442103	88	LA WARD TEL EXCHANGE	0.0969	0.1977	2,532	3,886	688	7,106	0.0969	0.1232
442104	88	LAKE LIVINGSTON TEL	0.1347	0.3013	2,184	2,211	684	5,080	0.1347	0.2009
442109	88	LUFKIN-CONROE TEL EX	0.1003	0.2485	690,370	240,429	110,126	1,040,924	0.1058	0.2082
442112	88	MID-PLAINS RURAL TEL	0.1140	0.2163	13,193	9,698	2,052	24,943	0.1137	0.1734
442116	88	MUENSTER TEL CORP-TX	0.0853	0.2153	13,801	10,250	2,239	26,290	0.0852	0.1812
442117	88	MUSTANG TEL CO	0.2217	0.5855	5,909	8,180	3,616	17,705	0.2217	0.5857
442121	88	ALLTEL TEXAS INC	0.0963	0.2538	20,065	8,359	3,022	31,446	0.0961	0.1860
442129	88	PEEPLS TELEPHONE CO	0.0951	0.1859	3,910	3,967	828	8,705	0.0951	0.1358
442130	88	PEOPLES TEL COOP -TX	0.0977	0.1950	44,906	24,149	5,474	74,529	0.0977	0.1624
442131	88	POKA-LAMBRO RURAL	0.0631	0.1807	22,271	12,812	2,361	37,444	0.0631	0.1279

TABLE 4.17

1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
DEM MINUTES (IN THOUSANDS) AND VARIOUS FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	TR DEM
442134	88	RIVIERA TEL CO INC	0.1221	0.2371	3,677	3,512	1,000	8,188	0.1221	0.1814
442135 *		SOUTHWEST TEXAS TEL	0.1273	0.2108	7,391	2,045	1,402	10,838	0.1294	0.3006
442136	88	ROMAIN TELEPHONE CO	0.1496	0.2740	6,041	3,110	1,610	10,762	0.1496	0.2544
442147	88	SUGAR LAND TEL CO	0.1110	0.2858	438,067	27,092	58,170	523,329	0.1112	0.2449
442148	88	SWEENEY-OLD OCEAN	0.0818	0.2345	17,862	13,666	2,807	34,335	0.0818	0.1813
442151 *		TAYLOR TEL CO-OP INC	0.1273	0.1929	18,380	5,085	3,486	26,950	0.1294	0.3006
442153	88	TEXAS-MIDLAND TEL	0.1110	0.2046	50,317	44,864	11,881	107,062	0.1110	0.1628
442155	88	TRI-COUNTY TEL - TX	0.0748	0.1932	5,280	3,044	669	8,993	0.0744	0.9202
442156	88	TRINITY VALLEY TEL	0.0843	0.2462	45,125	18,639	5,871	69,635	0.0843	0.1982
442159 *		VALLEY TEL CO-OP -TX	0.1273	0.2094	11,118	3,076	2,109	16,303	0.1294	0.3006
442163	88	WATERWOOD COMM INC	0.2519	0.5636	0	1,495	503	1,999	0.2519	0.5067
442166	88	WEST TEXAS RURAL TEL	0.1516	0.3098	15,001	7,399	3,152	25,551	0.1516	0.2801
442168	88	WES-TEX TEL CO-OP	0.0710	0.1861	23,912	11,885	2,735	38,531	0.0710	0.1459
442170	88	XIT RURAL TEL CO-OP	0.3177	0.3924	3,843	3,966	3,635	11,443	0.3177	0.4077
442262	88	ENMR TEL COOP-TX	0.0988	0.2826	6,177	1,386	829	8,392	0.0988	0.2419
452171	88	ARIZONA TELEPHONE CO	0.2539	0.6250	3,202	5,454	2,945	11,601	0.2539	0.4850
452172	88	CITIZENS UTILITIES	0.2918	0.5752	290,163	43,904	137,666	471,734	0.2918	0.6594
452173	88	PAPAGO TRIBAL UTIL.	0.1198	0.3790	3,360	1,446	654	5,461	0.1198	0.3775
452175	88	UNIVERSAL TEL OF SW	0.1524	0.4539	7,129	2,678	1,764	11,571	0.1524	0.3536
452176	88	VALLEY TEL COOP-AZ	0.2813	0.5499	9,562	5,856	6,035	21,452	0.2813	0.4942
452177	88	CONTEL OF WEST-AZ	0.1977	0.3559	150,135	53,914	50,286	254,334	0.1977	0.3502
452275	88	NAVAJO COMMUN-AZ	0.2830	0.6179	42,374	26,388	27,136	95,899	0.2830	0.6007
452302	88	CONTEL CALIF - AZ	0.2689	0.5030	29,765	9,267	14,312	53,343	0.2683	0.5476
461835	88	SUNFLOWER TEL - CO	0.2519	0.3972	1,422	1,150	866	3,438	0.2519	0.4185
462181	88	BIJOU TEL COOP ASSOC	0.1637	0.3463	4,731	3,799	1,670	10,201	0.1637	0.2875
462182	88	BLANCA TEL CO	0.2510	0.6049	2,062	1,255	1,112	4,428	0.2510	0.5684
462184	88	DELTA COUNTY TEL CO	0.1487	0.2897	56,340	10,474	11,673	78,487	0.1487	0.2997
462185	88	EAGLE TELECOMMUN INC	0.2122	0.4294	27,039	17,434	11,994	56,467	0.2124	0.6372
462186	88	EASTERN SLOPE RURAL	0.1328	0.3359	22,209	14,284	5,590	42,083	0.1328	0.3199
462187	88	EL PASO COUNTY TEL	0.1492	0.3257	12,242	9,104	3,742	25,088	0.1492	0.3368
462188	88	FARMERS TEL CO - CO	0.1611	0.4061	1,268	846	406	2,520	0.1611	0.3788
462190	88	HAXTUN TEL CO	0.1499	0.3096	7,484	4,499	2,093	14,076	0.1487	0.2620
462192	88	BIG SANDY TELCOMM	0.1332	0.3091	3,480	2,522	922	6,924	0.1332	0.3012
462193	88	NUCLA-NATURITA TEL	0.1894	0.3997	5,877	2,347	1,921	10,145	0.1894	0.4221
462194	88	NUNN TEL CO	0.2055	0.4764	1,281	853	552	2,687	0.2055	0.4662
462196	88	PEETZ COOP TEL CO	0.2085	0.3817	1,338	587	507	2,431	0.2085	0.4028
462199	88	PLAINS COOP TEL ASSN	0.1344	0.2583	8,185	4,976	2,043	15,204	0.1344	0.2346
462203	88	RYE TELEPHONE CO	0.1843	0.3885	7,977	3,684	2,634	14,295	0.1843	0.3940
462204	88	COLUMBINE TEL CO	0.2913	0.5385	2,431	1,516	1,622	5,569	0.2913	0.5411
462207	88	STRASBURG TEL CO	0.1589	0.3523	3,945	3,332	1,375	8,652	0.1589	0.2945
462208	88	UNIVERSAL TEL CO -CO	0.2122	0.6151	34,314	5,924	10,839	51,076	0.2122	0.5401
462209	88	WIGGINS TEL ASSOC	0.1197	0.2776	5,464	4,474	1,352	11,290	0.1197	0.2305
472177	88	CONTEL OF WEST-ID	0.1963	0.4008	71,542	33,338	25,616	130,496	0.1963	0.3911
472213	88	ALBION TEL CO INC	0.1860	0.3518	6,361	2,496	2,024	10,880	0.1860	0.3534

TABLE 4.17

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 DEM MINUTES (IN THOUSANDS) AND VARIOUS FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	TR DEM
472215	88	CAMBRIDGE TEL CO	0.1609	0.3575	4,072	2,161	1,195	7,429	0.1609	0.3352
472218	88	CUSTER TEL COOP	0.1957	0.6250	10,287	2,998	3,233	16,518	0.1957	0.6828
472223	88	GEM STATE UTIL-ID	0.1463	0.4189	6,545	3,556	1,731	11,832	0.1463	0.3833
472225 *		CENTURY TEL OF IDAHO	0.1273	0.3694	41,336	11,435	7,840	60,611	0.1294	0.3006
472226	88	MIDVALE TEL EXCH INC	0.2672	0.2831	310	790	401	1,502	0.2672	0.3066
472231	88	PROJECT MUTUAL TEL	0.1120	0.2891	78,307	9,124	11,183	98,614	0.1134	0.2766
472232	88	ROCKLAND TEL CO INC	0.1359	0.3100	2,358	959	522	3,839	0.1359	0.2625
472233	88	RURAL TEL CO - ID	0.2366	0.6250	438	552	307	1,298	0.2366	0.5414
472234	88	TROY TELEPHONE CO	0.2431	0.4114	3,091	2,029	1,644	6,765	0.2431	0.4431
472295	88	SILVER STAR TEL- ID	0.2401	0.5073	1,480	1,007	786	3,273	0.2401	0.4823
472423	88	INLAND TEL-ID	0.1893	0.3406	887	833	402	2,122	0.1893	0.3544
482235	88	BLACKFOOT TEL COOP	0.1848	0.4386	25,133	18,303	9,847	53,283	0.1848	0.4257
482241 *		HOT SPRINGS TEL CO	0.1273	0.3063	4,446	1,230	843	6,519	0.1294	0.3006
482242	88	INTERBEL TEL COOP	0.1959	0.4762	6,290	1,275	1,843	9,408	0.1959	0.4468
482244	88	LINCOLN TEL CO INC	0.1698	0.4381	2,815	1,966	978	5,758	0.1698	0.4170
482246	88	MID-RIVERS TEL COOP	0.1222	0.2917	48,282	18,896	9,349	76,527	0.1222	0.2692
482247	88	NEMONT TEL COOP-MT	0.1894	0.3526	9,572	8,385	4,903	22,859	0.2145	0.3987
482248	88	NORTHERN TEL COOP	0.2117	0.4443	6,761	5,681	3,342	15,783	0.2117	0.4830
482249	88	NW TEL SYSTEMS, INC.	0.2081	0.3882	137,413	76,406	57,508	271,327	0.2120	0.4021
482250	88	PROJECT TEL CO	0.2038	0.3469	11,004	10,295	5,151	26,450	0.1948	0.3650
482251	88	RANGE TEL COOP-MT	0.1775	0.4073	18,886	8,684	5,950	33,520	0.1775	0.3923
482254	88	SOUTHERN MONTANA TEL	0.2369	0.5893	2,647	2,292	1,534	6,473	0.2369	0.6093
482255	88	3-RIVERS TEL COOP	0.1581	0.3990	48,315	25,028	13,774	87,117	0.1581	0.3926
482257	88	TRIANGLE TEL COOP	0.1209	0.3128	57,901	27,808	11,787	97,496	0.1209	0.2824
482258	88	VALLEY RURAL TEL	0.1340	0.6022	3,585	2,329	915	6,829	0.1340	0.5042
492066	88	DELL TEL CO-OP - NM	0.2320	0.6250	1,370	451	550	2,372	0.2320	0.5980
492176	88	VALLEY TEL COOP - NM	0.2867	0.4928	7,153	2,347	3,797	13,297	0.2855	0.4886
492177	88	CONTEL OF WEST - NM	0.1834	0.3696	161,383	63,843	50,576	275,802	0.1834	0.3797
492259	88	BACA VALLEY TEL CO	0.2104	0.5173	3,342	1,425	1,270	6,038	0.2104	0.4559
492262	88	ENMR TEL COOP INC-NM	0.1671	0.3883	65,093	15,360	16,143	96,596	0.1671	0.3897
492263	88	LA JICARITA RURAL	0.0829	0.2555	16,586	3,281	1,797	21,664	0.0829	0.2269
492264 *		LEACO RURAL TEL COOP	0.1273	0.4714	7,840	2,169	1,487	11,495	0.1294	0.3006
492268	88	WESTERN NEW MEXICO	0.1948	0.4558	25,447	10,435	8,682	44,564	0.1948	0.4665
492270	88	PENASCO VALLEY TEL	0.2103	0.4778	9,679	5,462	4,031	19,172	0.2103	0.4295
492272	88	ROOSEVELT CNTY RURAL	0.1558	0.3205	13,744	3,732	3,226	20,701	0.1558	0.3316
492274	88	UNIVERSAL TEL OF SW	0.1864	0.4001	19,214	8,687	6,390	34,292	0.1864	0.3508
492275	88	NAVAJO COMMUN - NM	0.2927	0.5980	13,684	8,655	9,246	31,585	0.2927	0.6022
502177	88	CONTEL THE WEST - UT	0.1705	0.3396	130,762	30,672	33,175	194,608	0.1705	0.3619
502275	88	NAVAJO COMMUN - UT	0.5068	0.6250	821	571	1,431	2,823	0.5068	0.7565
502277	88	CENTRAL UTAH TEL INC	0.0872	0.2158	7,079	2,152	882	10,112	0.0872	0.1711
502278	88	EMERY COUNTY FARMERS	0.0839	0.2586	28,271	7,086	3,238	38,595	0.0839	0.2259
502280	88	KAMAS-WOODLAND TEL	0.1268	0.2478	7,595	4,802	1,801	14,198	0.1268	0.2383
502284	88	BEEHIVE TEL CO - UT	0.0652	0.2180	8,621	1,254	688	10,564	0.0652	0.0782
502286	88	SOUTH CENTRAL UTAH	0.1536	0.3768	19,181	4,711	4,334	28,226	0.1536	0.3784

TABLE 4.17

1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
DEM MINUTES (IN THOUSANDS) AND VARIOUS FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	TR DEM
502287	88	UINTAH BASIN TEL	0.1352	0.2839	17,580	6,463	3,759	27,801	0.1352	0.2667
502288	88	UT-WY TELECOM	0.1618	0.4705	3,581	934	871	5,386	0.1618	0.3874
512251	88	RANGE TEL COOP - WY	0.2065	0.4949	11,759	3,404	3,946	19,109	0.2065	0.4073
512290	88	UTAH-WYOMING TELECOM	0.3255	0.6800	1,442	307	844	2,593	0.3255	0.6306
512291	88	DUBOIS TEL EXCHANGE	0.3014	0.5186	6,600	2,728	4,024	13,351	0.3014	0.6910
512294 *		MEDICINE BOW TEL CO	0.1273	0.6206	3,214	889	610	4,713	0.1294	0.3006
512295	88	SILVER STAR TEL-WY	0.2996	0.6700	5,309	1,336	2,842	9,487	0.2996	0.6658
512297	88	UNION TELEPHONE CO	0.2474	0.6444	24,826	5,681	10,030	40,536	0.2474	0.6443
512299	88	TEL. UTIL. OF WY.	0.2679	0.6380	14,791	5,972	7,630	28,394	0.2687	0.8062
522404 *		ASOTIN TEL - WA	0.1273	0.2652	9,059	2,506	1,718	13,283	0.1294	0.3006
522408	88	TEL UTIL OF WA INC	0.1118	0.3748	520,588	285,831	102,996	909,415	0.1133	0.1133
522410	88	COWICHE TELEPHONE CO	0.1044	0.2843	6,856	5,993	1,538	14,386	0.1069	0.2610
522412	88	ELLENSBURG TEL CO	0.1520	0.2795	115,983	35,842	27,215	179,040	0.1520	0.2792
522417 *		HAT ISLAND TEL CO	0.1273	0.2690	95	26	18	139	0.1294	0.3006
522419	88	HOOD CANAL TEL CO	0.1951	0.3863	1,498	2,434	953	4,885	0.1951	0.3853
522423	88	INLAND TEL CO -WA	0.1432	0.3189	8,245	3,154	1,905	13,304	0.1432	0.3150
522426	88	KALAMA TEL CO	0.1664	0.3957	7,907	6,040	3,132	17,080	0.1834	0.4252
522427	88	LEWIS RIVER TEL CO	0.2327	0.3691	11,053	10,018	6,505	27,576	0.2359	0.4140
522431	88	MASHELL TEL CO INC	0.1346	0.2713	7,687	8,857	2,574	19,117	0.1346	0.2615
522436	88	PENINSULA TELECOMM	0.1184	0.3118	54,002	24,424	10,528	88,954	0.1184	0.3062
522437	88	PIONEER TEL CO	0.1212	0.2849	4,042	2,298	874	7,215	0.1212	0.2622
522442	88	ST JOHN TEL CO	0.1550	0.2423	2,114	2,167	785	5,065	0.1550	0.2468
522446	88	TENINO TELEPHONE CO	0.1311	0.2408	10,987	9,299	3,108	23,394	0.1328	0.2255
522447	88	TOLEDO TELEPHONE CO	0.1707	0.2394	8,124	4,704	2,640	15,469	0.1707	0.2357
522449	88	CONTEL OF THE NW-WA	0.1319	0.3303	393,547	152,409	82,942	628,898	0.1319	0.2446
522451	88	WESTERN WAHKIAKUM	0.1502	0.2590	5,784	2,568	1,476	9,828	0.1502	0.2501
522452	88	WHIDBEY TEL CO.	0.1355	0.2844	43,257	19,890	10,209	73,356	0.1392	0.0528
522453	88	YELM TELEPHONE CO	0.1409	0.2724	38,357	20,724	9,687	68,768	0.1409	0.2723
532226	88	MIDVALE TEL EXCH -OR	0.2134	0.4064	781	450	334	1,566	0.2134	0.4404
532304	88	C P NATIONAL CORP-OR	0.1720	0.4124	51,982	33,980	17,854	103,817	0.1720	0.4063
532359	88	BEAVER CREEK COOP	0.0956	0.2541	38,509	10,214	5,148	53,871	0.0956	0.2279
532361	88	TEL UTIL OF OREGON	0.1292	0.3489	215,164	131,755	52,710	399,629	0.1319	0.3146
532362	88	CANBY TEL ASSN	0.1011	0.2810	61,000	29,485	10,180	100,665	0.1011	0.2595
532363	88	CLEAR CREEK MUTUAL	0.1102	0.2522	33,138	7,477	5,028	45,642	0.1102	0.2323
532364	88	COLTON TEL CO	0.1303	0.3027	7,043	4,034	1,659	12,736	0.1303	0.2656
532371	88	CASCADE UTIL INC	0.1161	0.2946	64,579	20,067	11,113	95,759	0.1161	0.2765
532375	88	RTI/HALSEY TEL CO	0.2481	0.3630	2,639	3,534	2,037	8,210	0.2481	0.4226
532376	88	HELIX TEL CO.	0.1933	0.3872	440	892	319	1,651	0.1933	0.3637
532377	88	HOME TELEPHONE CO	0.1292	0.3051	2,306	1,721	597	4,624	0.1292	0.2396
532378	88	TRANS-CASCADES TEL	0.1622	0.4133	420	420	163	1,003	0.1622	0.3532
532383	88	MOLALLA TEL CO.	0.0910	0.2563	37,248	16,935	5,422	59,605	0.0910	0.2285
532385	88	MONROE TELEPHONE CO.	0.1306	0.3604	2,951	3,037	900	6,887	0.1306	0.3338
532387	88	NEHALEM TEL & TEL	0.1583	0.3859	5,655	4,882	1,982	12,519	0.1583	0.3965
532388	88	NORTH STATE TEL CO.	0.1906	0.3402	1,542	1,489	714	3,744	0.1906	0.2970

TABLE 4.17

 1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
 DEM MINUTES (IN THOUSANDS) AND VARIOUS FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	TR DEM
532389	88	OREGON TEL CORP	0.1732	0.3739	6,485	5,921	2,598	15,004	0.1732	0.3263
532392	88	PINE TEL SYSTEM INC.	0.2290	0.4941	3,283	1,468	1,411	6,162	0.2290	0.5192
532393	88	PIONEER TEL COOP	0.1492	0.3533	59,302	26,924	15,124	101,350	0.1492	0.3229
532397	88	SCIO MUTUAL TEL ASSN	0.1317	0.2459	8,376	5,382	2,086	15,843	0.1317	0.2308
532404 *		ASOTIN TEL - OR	0.1273	0.6667	1,420	393	269	2,082	0.1294	0.3006
532449	88	CONTEL OF THE NW- OR	0.1304	0.2874	168,648	77,373	36,882	282,902	0.1304	0.2512
532456	88	MALHEUR HOME TEL CO	0.2215	0.3848	108,628	13,777	34,830	157,235	0.2215	0.3586
542301	88	CALAVERAS TEL CO	0.0980	0.2490	5,819	7,580	1,455	14,854	0.0980	0.2001
542304	88	C P NATIONAL CORP-CA	0.1179	0.2727	64,835	44,971	14,726	124,533	0.1183	0.2033
542308	88	CITIZENS UTIL OF CA	0.0870	0.2349	576,962	183,661	72,481	833,104	0.0870	0.0870
542311	88	CALIF-OREGON TEL CO	0.2706	0.4824	10,280	6,320	6,159	22,759	0.2706	0.5334
542313	88	DUCOR TELEPHONE CO	0.0726	0.2213	2,258	2,995	411	5,664	0.0726	0.1130
542315	88	EVANS TEL CO.	0.0642	0.2058	50,880	40,596	6,274	97,750	0.0642	0.1384
542318 *		FORESTHILL TEL CO.	0.1273	0.0417	7,693	2,128	1,459	11,281	0.1294	0.3006
542321 *		HAPPY VALLEY TEL CO	0.1273	0.0417	13,559	3,751	2,572	19,881	0.1294	0.3006
542322 *		HORNITOS TEL CO	0.1273	0.0417	5,912	1,636	1,121	8,669	0.1294	0.3006
542324	88	KERMAN TELEPHONE CO	0.0522	0.1657	48,055	13,627	3,453	65,134	0.0530	0.1084
542332	88	THE PONDEROSA TEL CO	0.0732	0.2060	25,500	23,683	3,881	53,064	0.0732	0.1412
542334	88	ROSEVILLE TEL CO	0.0704	0.2075	754,711	177,582	67,600	999,893	0.0676	0.1278
542338 *		SIERRA TELEPHONE CO	0.1273	0.2157	72,753	20,127	13,799	106,680	0.1294	0.2941
542339	88	THE SISKIYOU TEL CO	0.1303	0.3004	15,279	14,860	4,530	34,669	0.1303	0.2779
542342	88	TUOLUMNE TEL CO	0.0899	0.2612	19,636	21,714	4,082	45,433	0.0899	0.2231
542343	88	THE VOLCANO TEL CO	0.0914	0.2113	30,399	30,618	6,137	67,154	0.0914	0.2742
542346	88	PINNACLES TEL CO	0.1335	0.2213	215	1,736	300	2,251	0.1335	0.2407
552223	88	GEM STATE UTIL-NV	0.2945	0.6250	1,637	606	937	3,180	0.2945	0.8835
552233	88	RURAL TEL CO - NV	0.3670	0.6250	231	386	358	975	0.3670	0.6389
552284	88	BEEHIVE TEL CO - NV	0.3341	0.6188	419	107	264	789	0.3341	0.4009
552302	88	CONTEL OF CALIF-NV	0.3449	0.6125	107,008	37,231	84,295	228,535	0.3689	0.7501
552304	88	CP NATIONAL-NV	0.3060	0.6063	82,610	26,872	48,514	157,996	0.3071	0.6870
552349	88	CHURCHILL COUNTY TEL	0.2494	0.4975	66,937	11,328	26,006	104,271	0.2494	0.5778
552351	88	LINCOLN CTY TEL SYS	0.2358	0.5131	7,591	4,268	3,659	15,518	0.2358	0.4972
552353	88	MOAPA VALLEY TEL CO.	0.2145	0.5553	15,314	5,313	5,634	26,261	0.2145	0.5703
552354	88	NEVADA TEL-TELEGRAPH	0.3144	0.6250	13,827	5,613	9,012	28,452	0.3167	0.7023
552356	88	RIO VIRGIN TEL CO	0.3939	0.6125	6,687	1,410	5,262	13,359	0.3939	0.7579
613000	88	ANCHORAGE TEL UTIL	0.1450	0.4339	1,822,367	160,491	332,942	2,315,800	0.1438	0.4191
613001	88	ARCTIC SLOPE TEL	0.3130	0.6250	8,259	11,048	8,795	28,102	0.3130	0.6035
613003	88	BRISTOL BAY TEL COOP	0.2326	0.6250	6,021	3,200	2,795	12,017	0.2326	0.6012
613004 *		BUSH-TELL INC.	0.1273	0.3987	2,509	694	476	3,679	0.1294	0.3006
613006 *		COPPER VALLEY TEL	0.1273	0.4964	32,794	9,072	6,220	48,086	0.1294	0.3006
613007	88	CORDOVA TEL COOP	0.2547	0.6188	10,297	2,876	4,501	17,675	0.2547	0.7114
613008	88	FAIRBANKS MUNICIPAL	0.1397	0.4084	336,580	36,681	68,451	441,712	0.1550	0.3099
613009	88	GTE ALASKA INC.	0.1995	0.4581	89,551	37,478	31,662	158,691	0.1995	0.4541
613010	88	GLACIER STATE TEL CO	0.1885	0.5236	298,286	54,594	81,970	434,850	0.1885	0.3770
613011	88	INTERIOR TEL CO INC	0.3542	0.6250	12,525	8,101	11,315	31,940	0.3542	0.6519

TABLE 4.17

1988 NONTIER 1 COMPANIES NETWORK USAGE DATA
DEM MINUTES (IN THOUSANDS) AND VARIOUS FACTORS

FCODE	YEAR	CARRIER	IS SLU	IS SPF	LOC DEM	ST DEM	IS DEM	TOT DEM	IS DEM	TR DEM
613012	88	JUNEAU & DOUGLAS TEL	0.1937	0.4991	151,378	25,648	42,514	219,539	0.1937	0.5690
613013	88	KETCHIKAN PUBLIC UT	0.2128	0.5053	25,183	855	1,546	27,583	0.2128	0.5806
613015	88	MATANUSKA TEL ASSOC	0.1588	0.3724	253,473	62,355	59,614	375,442	0.1588	0.3692
613016 *		MUKLUK TEL CO INC	0.1273	0.2690	8,094	2,239	1,535	11,869	0.1294	0.3006
613018	88	NUSHAGAK TEL COOP	0.1821	0.5126	10,683	4,500	3,381	18,564	0.1821	0.5603
613019 *		OTZ TEL COOPERATIVE	0.1273	0.3258	13,474	3,728	2,556	19,757	0.1294	0.3006
613020	88	SITKA TELEPHONE CO	0.2527	0.5187	52,531	23,162	25,591	101,285	0.2527	0.7580
613022	88	TEL UTIL OF ALASKA	0.3438	0.7000	21,253	1,967	12,167	35,388	0.3438	0.7884
613023	88	UNITED UTILITIES INC	0.0943	0.2942	20,873	12,846	3,511	37,230	0.0943	0.1976
613025	88	YUKON TEL CO INC	0.1714	0.6250	1,610	1,598	664	3,871	0.1714	0.4590
633200 *		PUERTO RICO COMM	0.1273	0.2308	572,037	158,254	108,498	838,789	0.1294	0.2747
643300	88	VIRGIN ISLANDS TEL	0.1609	0.3833	902,981	0	173,158	1,076,139	0.1609	0.3539
584		NONTIER 1 CO's TOTAL	0.1339		48,845,619	14,158,946	9,942,011	72,946,582	0.1363	
888888	88	AVERAGE SCHEDULE CO.	0.1273	0.3063	25,168,371	6,962,810	4,773,693	36,904,873	0.1294	0.3010
TOTAL		NONTIER 1 & AV. SCH.	0.1317		74,013,990	21,121,756	14,715,704	109,851,455	0.1340	

* - THOSE COMPANIES WHO NECA COMPUTED DATA FOR

5. Rates and Revenues

This section contains information on telephone price indexes and rate levels. First, it describes and presents a series of price indexes maintained by the Bureau of Labor Statistics. Second, it discusses rate levels and changes in average rate levels. Third, it summarizes rate cases pending before state regulatory commissions. These cases are an important indicator of future local rate changes.

CHANGES IN THE PRICE OF TELEPHONE SERVICES:

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

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

A Consumer Price Index for telephone services was first published in 1935.¹ Since that time, telephone prices have tended to increase at a slower pace than most other prices. Table 5.1 shows long run changes in the Consumer Price Indexes for all items, all services, telephone services, each of the seven major categories that currently constitute the overall CPI, and several services that are often characterized as public utilities. The price of telephone service has increased less rapidly than almost any other category when viewed over a long period of time.²

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

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

Table 5.1
Annual Rate of Change For Various Price Indexes*

	1935 to 1989	1979 to 1989
CPI all goods and services	4.2%	5.5%
CPI all services	4.6	6.9
CPI telephone services	2.2	4.5
CPI major categories		
- food & beverages	**	4.6
- housing	**	5.8
- apparel & upkeep	3.3	3.4
- transportation	3.9	4.9
- medical care	5.1	8.3
- entertainment	**	5.1
- other goods & services	**	7.9
CPI public transportation	5.0	9.0
CPI piped gas	3.8	5.8
CPI electricity	2.4	5.7
CPI sewer & water maintenance	**	7.3

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

Table 5.2
Annual Rate of Change in Price Indexes

	GNP Fixed Weight Price Index	CPI: All Items	CPI: Telephone Services
1978	7.2%	9.0%	0.9%
1979	8.8	13.3	0.7
1980	9.8	12.5	4.6
1981	8.5	8.9	11.7
1982	5.0	3.8	7.2
1983	3.9	3.8	3.6
1984	3.7	3.9	9.2
1985	3.6	3.8	4.7
1986	2.3	1.1	2.7
1987	4.0	4.4	-1.3
1988	4.5	4.4	1.3
1989	4.1	4.6	-0.3

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
1989	0.6	1.9

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 three years.

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

	CPI: Interstate Toll calls	CPI: Intrastate Toll calls
1978	-0.8%	1.3%
1979	-0.7	0.1
1980	3.4	- 0.6
1981	14.6	6.2
1982	2.6	4.2
1983	1.5	7.4
1984	-4.3	3.6
1985	-3.7	0.6
1986	-9.4	0.3
1987	-12.4	-3.0
1988	-4.2	-4.2
1989	-1.3	-2.6

E. Monthly Price Index Data:

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

TABLE 5.5
Consumer Price Index Data

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

TABLE 5.5
Consumer Price Index Data

	All Goods & Services	All Telephone Services	Local Services	Interstate Toll Service	Intrastate Toll Service
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
July	124.4	117.8	147.8	69.6	97.0
August	124.6	117.7	147.6	69.6	97.0
September	125.0	117.8	147.9	69.6	96.9
October	125.6	116.9	146.2	69.6	96.7
November	125.9	117.2	146.8	69.6	96.8
December	126.1	116.9	146.0	70.0	96.6

TABLE 5.6
 Producer Price Index Data

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

TABLE 5.6
 Producer Price Index Data

	Local Services	Local Residential Services	Local Business Services	Local Optional Additional Usage	Local Coin Service
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	234.3
February	218.2	235.5	230.3	127.7	233.1
March	218.4	235.7	230.6	127.7	233.1
April	218.4	235.7	230.6	127.7	233.1
May	218.4	235.7	230.6	127.7	233.1
June	218.3	235.7	230.6	127.7	233.1
July	217.9	235.1	230.0	127.7	233.1
August	218.1	235.4	230.3	127.7	233.1
September	218.2	235.4	230.2	127.7	233.4
October	219.5	235.9	230.8	127.7	246.0
November	219.5	236.0	230.8	127.7	246.0
December	226.4	247.4	233.0	127.7	246.2
1989 January	226.2	246.6	234.3	127.5	246.6
February	226.2	246.6	234.4	127.5	246.6
March	226.3	246.7	234.4	127.5	246.6
April	229.5	252.2	234.8	127.5	246.7
May	229.5	252.2	234.8	127.5	246.7
June	229.5	252.3	234.8	127.5	246.7
July	229.6	252.5	234.9	127.5	246.7
August	229.5	252.2	234.7	127.5	246.7
September	229.4	252.2	234.6	127.5	246.7
October	229.4	252.2	234.5	127.5	246.6
November	229.4	252.2	234.5	127.5	246.6
December	229.4	252.2	234.5	127.5	246.6

TABLE 5.6
 Producer Price Index Data

	Toll Service	Intrastate MTS	Interstate MTS	International MTS	
1983	January	148.8	151.1	153.4	92.3
	February	148.8	151.1	153.4	92.3
	March	149.0	151.7	153.4	92.3
	April	148.9	151.5	153.4	92.3
	May	149.0	151.5	153.4	92.3
	June	149.3	152.2	153.4	92.3
	July	149.4	152.2	153.4	92.3
	August	149.4	152.3	153.4	92.3
	September	149.4	152.3	153.4	92.3
	October	149.8	153.2	153.4	92.7
	November	149.8	153.2	153.4	92.7
	December	149.8	153.2	153.4	92.7
1984	January	150.7	155.9	153.4	92.7
	February	150.6	155.9	153.4	92.5
	March	150.7	155.9	153.4	92.5
	April	150.8	156.1	153.4	92.5
	May	150.5	155.3	153.4	92.5
	June	146.2	155.9	145.6	87.3
	July	146.6	157.0	145.6	86.8
	August	147.1	158.3	145.6	86.8
	September	147.3	158.9	145.6	86.8
	October	147.3	158.9	145.6	86.8
	November	146.8	157.5	145.6	86.8
	December	147.4	159.0	145.6	86.8
1985	January	147.6	159.8	145.6	86.8
	February	147.7	159.8	145.6	86.8
	March	147.7	159.8	145.6	86.8
	April	148.1	161.0	146.6	86.8
	May	149.9	162.6	147.9	86.8
	June	146.3	162.8	141.3	86.5
	July	146.3	162.8	141.3	86.5
	August	146.6	163.4	141.3	86.5
	September	146.5	163.2	141.3	86.5
	October	146.5	163.2	141.3	86.5
	November	146.7	163.7	141.3	86.5
	December	146.2	162.4	141.3	86.5
1986	January	146.2	162.4	141.3	84.2
	February	146.2	162.5	141.3	84.2
	March	146.2	162.6	141.3	84.2
	April	144.1	156.9	141.3	84.3
	May	144.1	156.9	141.3	84.3
	June	135.9	156.1	127.2	84.1
	July	135.9	156.1	127.1	84.1
	August	135.8	156.1	127.1	84.1
	September	135.8	156.2	127.1	84.1
	October	136.0	156.8	127.1	84.1
	November	136.0	156.7	127.1	84.1
	December	136.0	156.7	127.1	84.1

TABLE 5.6
 Producer Price Index Data

	Toll Service	Intrastate MTS	Interstate MTS	International MTS
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	122.3	146.3	109.7	83.8
1989				
January	123.1	148.3	109.7	83.8
February	125.1	153.7	109.7	83.8
March	125.1	153.6	109.7	83.8
April	124.1	153.8	108.0	83.8
May	124.0	153.7	108.0	83.8
June	124.0	153.7	108.0	83.8
July	123.9	153.5	107.8	83.8
August	123.9	153.5	107.8	83.8
September	123.7	153.2	107.8	83.8
October	122.2	149.3	107.8	83.8
November	122.2	149.3	107.8	83.8
December	122.2	149.3	107.8	83.8

TABLE 5.6
 Producer Price Index Data

	WATS	Interstate WATS	Intrastate WATS
1983 January	131.8	127.1	144.1
February	131.8	127.1	144.3
March	131.8	127.1	144.3
April	131.8	127.1	144.3
May	132.4	127.1	146.3
June	132.7	127.1	147.6
July	133.7	127.1	151.2
August	133.7	127.1	151.2
September	133.7	127.1	151.2
October	133.7	127.1	151.2
November	133.7	127.1	151.2
December	133.7	127.1	151.1
1984 January	132.2	127.1	145.6
February	132.2	127.1	145.9
March	132.7	127.1	147.3
April	132.6	127.1	147.1
May	132.8	127.1	147.8
June	127.2	119.6	147.4
July	127.6	119.6	148.8
August	127.5	119.6	148.5
September	127.5	119.6	148.5
October	127.6	119.6	148.7
November	127.6	119.6	148.7
December	127.8	119.6	149.6
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

TABLE 5.6
 Producer Price Index Data

	WATS	Interstate WATS	Intrastate WATS
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	102.7	93.1	128.2
November	103.4	93.1	130.5
December	102.7	92.5	129.7
1989 January	102.0	90.6	131.7
February	102.0	90.6	131.7
March	102.0	90.6	131.7
April	99.8	87.0	131.4
May	99.1	87.0	131.0
June	99.3	87.0	131.8
July	99.2	87.0	131.3
August	99.0	87.0	130.8
September	98.8	87.0	130.4
October	98.8	87.0	130.1
November	98.8	87.0	130.1
December	98.8	87.0	130.1

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 April 1989, the national average for flat rate residential service was \$12.36 monthly. Lower-priced service alternatives are frequently available, at an average monthly charge of \$5.78. ³

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

Table 5.7
Average Monthly Residential Rates
(in October of each year except 1989)

	1983	1984	1985	1986	1987	1988	April 1989
Unlimited Local Calling	\$10.50	\$12.10	\$12.17	\$12.58	\$12.44	\$12.32	\$12.36
Subscriber Line Charges*	.00	.00	1.01	2.04	2.66	2.67	3.55
Taxes	1.08	1.25	1.36	1.51	1.56	1.58	1.68
<u>Total</u>	<u>11.58</u>	<u>13.35</u>	<u>14.54</u>	<u>16.13</u>	<u>16.66</u>	<u>16.57</u>	<u>17.59</u>
Lowest Generally							
Available Monthly Rate	\$ 5.37	\$ 5.62	\$ 5.75	\$ 5.96	\$ 5.81	\$ 5.67	\$ 5.78
Subscriber Line Charges*	.00	.00	1.01	2.04	2.66	2.67	3.55
Taxes	.56	.58	.70	.84	.94	.91	1.02
<u>Total</u>	<u>5.93</u>	<u>6.20</u>	<u>7.46</u>	<u>8.84</u>	<u>9.41</u>	<u>9.25</u>	<u>10.35</u>
Minimum Connection Charge	\$35.01	\$43.71	\$44.32	\$45.63	\$44.04	\$42.94	\$42.98
Taxes	1.75	2.19	2.22	2.28	2.20	2.11	2.12
<u>Total</u>	<u>36.76</u>	<u>45.90</u>	<u>46.54</u>	<u>47.91</u>	<u>46.24</u>	<u>45.05</u>	<u>45.10</u>

* Includes both Federal and State charges.

The local rate averages shown in Table 5.7 are based on rates that are available to all customers. Many states have programs that subsidize monthly service charges or connection fees paid by needy households. These programs are further described in Section 2 above. Most of these programs are part of the FCC sponsored Lifeline and Link Up programs. The most recent available local rate survey, reflecting data as of April 15, 1989, 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 April 1989, Lifeline and similar assistance programs provided an average benefit of \$6.55 per month. Link Up and similar connection assistance programs reduced connection costs by an average of \$23.32.

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

Table 5.8

Average Monthly Single Line Business Rates
(in October of each year except 1989)

	1983	1984	1985	1986	1987	1988	April 1989
Representative Rate *	\$29.16	\$32.74	\$33.42	\$34.26	\$33.71	\$34.48	\$33.57
Subscriber Line Charges**	.00	.00	1.01	2.04	2.68	2.69	3.58
Taxes	3.35	3.76	3.96	4.17	4.18	3.95	4.05
<u>Total</u>	<u>33.51</u>	<u>36.51</u>	<u>38.39</u>	<u>40.47</u>	<u>40.57</u>	<u>40.12</u>	<u>41.21</u>
Minimum Connection Charge	\$56.04	\$68.84	\$70.82	\$79.94	\$72.15	\$72.51	\$72.58
Taxes	3.08	3.79	3.90	4.01	3.97	3.92	3.92
<u>Total</u>	<u>59.12</u>	<u>72.63</u>	<u>74.72</u>	<u>76.95</u>	<u>76.12</u>	<u>76.43</u>	<u>76.50</u>

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

** Includes both Federal and State charges.

Long Distance Rates

Table 5.9 compares the prices of directly dialed interstate long distance calls in all mileage bands and rate periods based on AT&T's tariffed rates in effect during January 1984 and January 1990. 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 40%.

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

Calling Distance in airline miles, rate center to rate center		Five minute calls			10 minute calls		
		Jan. 1984	Jan. 1990	Percent change	Jan. 1984	Jan. 1990	Percent change
1 - 10	Day	\$0.96	\$0.86	-10.4%	\$1.76	\$1.71	-2.8%
	Evening	\$0.57	\$0.58	1.8%	\$1.05	\$1.14	8.6%
	Night	\$0.38	\$0.49	28.9%	\$0.70	\$0.97	38.6%
11 - 22	Day	\$1.28	\$1.00	-21.9%	\$2.38	\$2.00	-16.0%
	Evening	\$0.76	\$0.68	-10.5%	\$1.42	\$1.34	-5.6%
	Night	\$0.51	\$0.55	7.8%	\$0.95	\$1.10	15.8%
23 - 55	Day	\$1.60	\$1.01	-36.9%	\$3.00	\$2.01	-33.0%
	Evening	\$0.96	\$0.74	-22.9%	\$1.80	\$1.48	-17.8%
	Night	\$0.64	\$0.60	-6.3%	\$1.20	\$1.20	0.0%
56 - 124	Day	\$2.05	\$1.08	-47.3%	\$3.90	\$2.15	-44.9%
	Evening	\$1.22	\$0.73	-40.2%	\$2.34	\$1.45	-38.0%
	Night	\$0.82	\$0.60	-26.8%	\$1.56	\$1.20	-23.1%
125 - 292	Day	\$2.14	\$1.08	-49.5%	\$4.09	\$2.15	-47.4%
	Evening	\$1.28	\$0.76	-40.6%	\$2.45	\$1.53	-37.6%
	Night	\$0.85	\$0.61	-28.2%	\$1.63	\$1.21	-25.8%
293 - 430	Day	\$2.27	\$1.15	-49.3%	\$4.37	\$2.30	-47.4%
	Evening	\$1.36	\$0.77	-43.4%	\$2.62	\$1.54	-41.2%
	Night	\$0.90	\$0.62	-31.1%	\$1.74	\$1.22	-29.9%
431 - 925	Day	\$2.34	\$1.20	-48.7%	\$4.49	\$2.39	-46.8%
	Evening	\$1.40	\$0.79	-43.6%	\$2.69	\$1.58	-41.3%
	Night	\$0.93	\$0.63	-32.3%	\$1.79	\$1.26	-29.6%
926 - 1910	Day	\$2.40	\$1.25	-47.9%	\$4.60	\$2.50	-45.7%
	Evening	\$1.44	\$0.79	-45.1%	\$2.76	\$1.58	-42.8%
	Night	\$0.96	\$0.65	-32.3%	\$1.84	\$1.30	-29.3%
1911 - 3000	Day	\$2.70	\$1.25	-53.7%	\$5.15	\$2.50	-51.5%
	Evening	\$1.62	\$0.79	-51.2%	\$3.09	\$1.58	-48.9%
	Night	\$1.08	\$0.67	-38.0%	\$2.06	\$1.32	-35.9%
3001 - 4250	Day	2.8	\$1.51	-46.1%	5.35	\$3.01	-43.7%
	Evening	1.68	\$1.01	-39.9%	3.21	\$2.01	-37.4%
	Night	1.12	\$0.81	-27.7%	2.14	\$1.60	-25.2%
4251 - 5750	Day	2.91	\$1.61	-44.7%	5.56	\$3.21	-42.3%
	Evening	1.74	\$1.08	-37.9%	3.33	\$2.15	-35.4%
	Night	1.16	\$0.86	-25.9%	2.22	\$1.70	-23.4%

Subscriber Line and Access Charges

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

Table 5.10
Interstate Subscriber Line Charges
by Local Telephone Companies to End Users
(In Dollars per Month per Line)

	Residential and Single Line Business *	Multiline Business **	Embedded Centrex Rate Cap ***
05/26/84 to 05/31/85	\$0.00	\$4.99	\$2.00
06/01/85 to 09/30/85	1.00	4.99	2.00
10/01/85 to 05/31/86	1.00	4.97	2.00
06/01/86 to 12/31/86	2.00	4.97	3.00
01/01/87 to 06/30/87	2.00	5.12	3.00
07/01/87 to 12/31/87	2.60	5.12	4.00
01/01/88 to 11/30/88	2.60	5.01	4.00
12/01/88 to 03/31/89	3.20	5.01	5.00
04/01/89 to 12/31/89	3.50	4.94	6.00
01/01/90 to Present	3.48	4.84	6.00

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

** The monthly subscriber line charge for multiline business customers has been capped at a maximum rate of \$6.00 monthly since 1984. Local companies are not permitted to charge the full amount unless justified by their underlying costs. As a result, some companies do not charge the full \$6.00. This column represents the national average calculated by NECA.

*** These rates represent the maximum charge applied to centrex lines in place or on order as of July 27, 1983. Prior to April 1, 1989, "embedded" centrex lines were capped at levels lower than new centrex lines. Customers with new centrex lines paid the multiline business subscriber line charge. 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 5.11 shows the history of the average levels of these charges.

Table 5.11

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

	Carrier Common Line Charge Per Originating Access Minute <u>1/</u>	Carrier Common Line Charge Per Terminating Access Minute <u>1/</u>	Total Traffic Sensitive Charge Per Access Minute <u>2/</u>	Total Charges Per Conversation Minute <u>3/</u>
05/26/84 to 01/14/85	5.24	5.24	3.1	17.3
01/15/85 to 05/31/85	5.43	5.43	3.1	17.7
06/01/85 to 09/30/85	4.71	4.71	3.1	16.2
10/01/85 to 05/31/86	4.33	4.33	3.1	15.4
06/01/86 to 12/31/86	3.04	4.33	3.1	14.0
01/01/87 to 06/30/87	1.55	4.33	3.1	12.4
07/01/87 to 12/31/87	0.69	4.33	3.1	11.5
01/01/88 to 11/30/88	0.00	4.14	3.1	10.6
12/01/88 to 02/14/89	0.00	3.39	3.0	9.6
02/15/89 to 03/31/89	0.00	3.25	3.0	9.5
04/01/89 to 12/31/89	1.00	1.83	3.0	9.1
01/01/90 to Present	1.00	1.53	2.5	7.8

1/ Prior to 4/1/89, the rates shown are nationally uniform "premium" rates specified in tariffs filed by the National Exchange Carrier Association (NECA). Since 4/1/89, the terminating rate is no longer identical for all companies, and the rate shown is an average. Where equal access is not available, carriers other than AT&T pay discounted "non-premium" rates.

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

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

terminating carrier common line rate + 107% of the traffic sensitive rate (for originating access) + 100% of the traffic sensitive access rate (for terminating access).

STATE TELEPHONE RATE CASES:

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

At the time of divestiture, rate cases pending before state public utility commissions totaled nearly \$7 billion. During the first half of 1984, state commissions completed action on a number of extraordinarily large rate cases. After the first half of 1984, however, the level of activity in state cases diminished substantially. At the end of 1989, the amount of rate increases requested and pending before state commissions totaled about \$400 million. During 1987, 1988, and 1989, the dollar amount of rate reductions and refunds ordered by state commissions exceeded the dollar amount of rate increases authorized. Since it typically takes more than a year for a rate case to be completed, the low level of pending cases -- viewed in conjunction with the recent reductions ordered by state commissions -- should indicate a low level of state and local increases during at least the next year. The data on state rate cases are shown in Table 5.12.

The information in Table 5.12 reflects data we have received from the Bell Operating Companies, Contel, GTE, and United Telephone on pending state rate cases. In addition to this, we also include information from smaller companies which is submitted by state utility commissions, information published by the National Regulatory Research Institute, and any additional information brought to our attention or appearing in a telecommunications publication.

TABLE 5.12

State Telephone Rate Cases
(Millions of Dollars)

	<u>Revenue</u> <u>Increases</u> <u>Requested</u> <u>During Quarter</u>	<u>Revenue</u> <u>Changes</u> <u>Ordered</u> <u>During Quarter</u>	<u>Requests</u> <u>Pending</u> <u>at End</u> <u>of Quarter</u>
1984 First quarter	\$ 627.7	\$ 1,175.6	\$ 4,851.9
Second quarter	93.7	2,054.2	1,675.6
Third quarter	2,242.9	284.5	3,387.5
Fourth quarter	1,059.4	361.2	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	369.9	307.3	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	8.7	.8	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	57.9	-279.9	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	15.4	-530.9	198.5
Total	357.9	-1,366.4	
1989 First quarter	52.1	-203.7	140.6
Second quarter	25.8	-107.6	148.7
Third quarter	362.9	-48.9	490.4
Fourth quarter	6.2	-478.3	419.5
Total	447.0	-838.5	

ADDITIONAL DATA RECEIVED

Twenty-five state utility commissions have filed data. We have not included the data in this report because the data are voluminous. However, the data are available for research and reference in the Public Reference Room maintained by the FCC's Industry Analysis Division. A summary of the rate information that has been filed is in Table 5.13.

Table 5.13
Rate Information Provided by States

	No. of carriers for which R-1 and B-1 rates are provided*	No. of carriers for which intrastate toll rates are provided	Status for state rate cases **
Alaska	16	1	x
Arkansas	28	17	x
California	22	3	x
Colorado	31	3	x
District of Col.	1	N/A	x
Florida	14	1	x
Idaho	21	1	x
Indiana	42	4	x
Iowa	152	10	x
Maine	20	1	x
Massachusetts	1	1	
Michigan	45	3	
Minnesota	4	24	x
Missouri	46	0	x
Nebraska	42	1	
New Jersey	3	3	x
New York	41	7	x
North Carolina	19	16	x
North Dakota	10	1	
Ohio	44	33	x
Rhode Island	1	1	x
Texas	66	2	x
Virginia	20	9	x
Washington	3	0	x
Wisconsin	100	4	x

* Most states provided tariff pages.

** x indicates information has been filed.

6. Bypass

Because bypass reports are now only submitted once a year (in April), no new reports have been filed since the last monitoring report. In response to a suggestion that more emphasis be placed on the physical measures of bypass loss (as opposed to the revenue loss), Table 6.1 shows estimates of losses of switched minutes of use and of private line circuits from the April 1989 bypass reports. The table also includes estimated total revenue losses. It should be noted that these losses represent the telephone companies' unaudited estimates of revenue loss and do not reflect associated cost savings.

Table 6.1

1988 Estimated Losses Due to Bypass

Company	Facility Private Line (Thousands of Circuits)	Facility Switched (Billions of Minutes of Use)	Service Switched (Billions of Minutes of Use)	Total Switched (Billions of Minutes of Use)	Total Revenue Loss (Millions of Dollars)
Ameritech	127	8.6	13.7	22.3	799
Bell Atlantic	131	7.0	15.4	22.3	768
BellSouth	15	0.7	6.1	6.8	219
GTE	6	0.9	3.2	4.1	215
NYNEX	60	2.8	9.1	11.9	439
Pacific Telesis	11	0.9	7.6	8.6	394
Southwestern Bell	128	1.9	10.3	12.3	332
US West	15	0.8	10.7	11.5	375
Total	492	23.5	76.2	99.7	3,540

Note: Details may not add to totals due to rounding.

In our July 1989 monitoring report we indicated that we were considering expanding the bypass reports by accompanying each revenue loss estimate with a cost offset estimate. We requested comments on this proposal. These comments are summarized below. Because the comments have convinced us that any such estimates would involve numerous assumptions, controversial calculations and yield doubtful results, we have decided not to implement the proposal. Instead, we will in the future simply note that these cost offsets have not been estimated.

Although there have been numerous complaints by various parties in this docket about the definitions, assumptions, and methodologies that are used by the telephone companies to estimate bypass, no party has put forth a viable alternative. Also, none of the respondents suggests providing the raw or source data in the form of any data bases used in their own studies as a means for improving the usefulness of their present information and allowing the user to apply his own assumptions. Therefore, in the interest of consistency of the estimates over time, we will continue to collect bypass data based on the current procedures through 1992.

Summary of Comments

Comments on the Commission's proposal to expand the bypass data reports were received from the following entities: United State Telephone Association, US West Communications, the Ameritech Operating Companies, the NYNEX Telephone Companies, Southwestern Bell Telephone Company, the BellSouth Telephone Companies, Pacific Bell and Nevada Bell, Metropolitan Fiber Systems, Inc., and the Public Service Commission of the District of Columbia.

The operating telephone companies uniformly oppose expanding the bypass reports to include cost offsets associated with facilities which would not have to be built where bypass occurs. In rejecting the proposal these commenters suggest that the present reports include numerous assumptions, controversial calculations, and interpretations, and that the calculation of cost offsets would require even more assumptions.

Further, the operating companies suggest that present evaluations of bypass are imprecise since firms undertaking bypass activities have no legal obligation to report their bypass activity. (See Ameritech, p.2.) According to the commenters, the additional proposed requirement would be extremely time consuming and burdensome, and reductions in planned investment would be hard to attribute to bypass, especially since service bypass does not eliminate the need for telephone company facilities. NYNEX, however, suggests that greater emphasis needs to be placed on usage rather than revenue losses and cost offsets. US West suggests that if cost offsets are calculated, they should be calculated at the aggregated state-wide level using state average cost data. However, the resources required to compile cost offsets and the further dilution of accuracy and usefulness of the current data appear to be the chief concerns of the operating companies.

Metropolitan Fiber Systems, one of the companies constructing facility bypass systems, filed reply comments in this proceeding. It generally deprecates the present monitoring reports, and suggests that unless the Commission can prescribe meaningful LEC reporting guidelines, it should eliminate the reports altogether. Instead of commenting specifically on the merits of the current proposal, Metropolitan Fiber Systems primarily critiques the current bypass monitoring system. Metropolitan Fiber Systems, however, emphasizes that bypass could be easily double counted when an entity switches from service bypass to a facility bypass system.

The Public Service Commission of the District of Columbia concludes that if the telephone companies are unwilling to furnish evidence of cost offsets, it must be presumed that the telephone companies are unable to show (1) that their operations have been affected adversely by bypass, and (2) that the threat of bypass warrants imposing additional charges on telephone users.

7. Pooling and Rate Deaveraging

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

The latest nationwide pool results through September 1989, provided by NECA, are shown in Tables 7.1 and 7.2. Table 7.1 summarizes the CCL pool revenues and expenses for the first seven months since April 1, 1989. Table 7.2 has corresponding figures for NECA's voluntary traffic sensitive pool.

The latest report on the dimensions of long term support and transitional support payments among the LECs, drawn from NECA tariff filings, follows. Table 7.3 shows the transitional support payments being received by Level 1 Receivers. The first column of this table shows the base amount from which the payments are calculated, and the third column shows the actual support payments. The transition factors in the second and third columns will decline by .2 each year over a five year transition period. Table 7.4 shows the transitional support payments being made by Level 1 Contributors. Chart 7.1 summarizes the transitional support among carriers that withdrew from the NECA pool. Table 7.5 shows the long term support payments being made by Level 1 Contributors, in support of those companies remaining in the NECA CCL pool. Chart 7.2 summarizes the sources of revenue for the NECA CCL pool, showing the distribution of funds from long term support, CCL charges, subscriber line charges, and special access surcharges. Table 7.6 shows the total support payments being made by Level 1 Contributors.

As an indication of the effect of depooling on CCL rates, Chart 7.3 shows the terminating CCL rates being charged by the Bell companies ¹ and GTE, as well as the NECA rate for those companies remaining in the NECA pool. For comparison purposes, the rate that NECA would have had to establish in absence of long term support payments is also shown.

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.

TABLE 7.1

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

COMMON LINE (CL) (Note 1)	CURRENT MONTH	Post 04/01/89 Pool YTD (Note 2)
Carrier Common Line (CCL) Earned Revenue		
Premium	\$14,179,129	\$96,559,816
Non-premium	\$691,761	\$4,544,474
Special Access Surcharge	\$104,237	\$795,759
CCL Net Realized Uncollectibles	\$0	\$149
CCL Net Earned Revenue	\$14,975,127	\$101,899,900
End User Net Earned Revenues (Note 3)	\$27,309,824	\$190,204,201
Total Common Line Net Earned Revenues	\$42,284,951	\$292,104,101
CL Income from Interest Charged Construction	\$6,949	\$8,203
Total Common Line Revenues	\$42,291,900	\$292,112,304
Long Term Support	\$25,115,285	\$185,469,927
NECA Administrative Expenses	\$1,824,699	\$13,508,697
Average Schedule Company Settlements	\$23,579,032	\$171,680,749
Common Line Expenses and other Taxes	\$25,551,098	\$175,699,800
Common Line Adjusted Federal Income Tax	\$3,426,878	\$24,567,847
Total Common Line Expenses	\$54,381,707	\$385,457,093
Common Line Residue for Distribution (Note 4)	\$13,025,478	\$92,125,138
Common Line Net Investment	\$1,100,216,424	\$1,091,344,047
Annualized Common Line Residue Ratio (Note 5)	14.21%	14.47%

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

Note 2: The Post 04/01/89 Pool Year is the period beginning April 1, 1989 through the CURRENT MONTH. The Net Investment is an average of the cumulative months reported.

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

Note 4: Residue for Distribution is Total Revenues Plus Long Term Support less Total Expenses.

Note 5: Annualized Residue Ratio in the CURRENT MONTH is calculated by dividing the amount of Residue for Distribution by the amount of Net Investment and multiplying by 12 months X 100. The Post 04/01/89 Pool YTD is similarly computed except that the calculation is then divided by the number of Pool Year Reporting Periods.

TABLE 7.2

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

TRAFFIC SENSITIVE (TS) (Note 1)	CURRENT MONTH	Post 04/01/89 Pool YTD (Note 2)
-----	-----	-----
TS Earned Revenue	\$50,212,305	\$329,843,364
TS Net Realized Uncollectibles	\$1,974	\$43,512
TS Net Earned Revenue	\$50,210,331	\$329,799,852
TS Income From Interest Charged Construction	\$4,395	\$4,931
Total Traffic Sensitive Revenues	\$50,214,726	\$329,804,783
NECA Administrative Expenses	\$808,654	\$5,986,669
Average Schedule Company Settlements	\$20,232,133	\$134,240,612
TS Expenses and other Taxes	\$18,403,404	\$127,242,489
TS Adjusted Federal Income Tax	\$2,212,410	\$12,093,975
Total Traffic Sensitive Expenses	\$41,656,601	\$279,563,745
-----	-----	-----
TS Residue For Distribution (Note 3)	\$8,558,125	\$50,241,038
TS Net Investment	\$688,067,220	\$683,808,832
Annualized Traffic Sensitive Residue Ratio (Note 4)	14.93%	12.60%

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

Note 2: The Post 04/01/89 Pool Year is the period beginning April 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 Net Investment and multiplying by 12 months X 100. The Post 04/01/89 Pool YTD is similarly computed except that the calculation is then divided by the number of Pool Year Reporting Periods.

TABLE 7.3

LEVEL 1 RECEIVERS
TRANSITIONAL SUPPORT AMOUNTS
1990

LEVEL 1 RECEIVER -----	(1)	(2)		(3)
	TRS BASE AMOUNT @ 100%	TRANSITION FACTORS		ANNUAL TRS SUPPORT*
		JAN-MAR	APR-DEC	
	-----	-----	-----	-----
BELL SOUTH	\$147,648,853	.8	.6	\$95,971,754
GTE CORPORATION	\$207,448,673	.8	.6	\$134,841,637
UNITED TELEPHONE SYSTEM	\$54,325,819	.8	.6	\$35,311,782
CONTEL CORPORATION	\$69,542,195	.8	.6	\$45,202,427
	-----			-----
	\$478,965,540			\$311,327,601
	*****			*****

ANNUAL TRS SUPPORT = (COL 1.25*.8)+(COL 1*.75*.6)

01/12/90

TABLE 7.4

LEVEL 1 CONTRIBUTORS
TRANSITIONAL SUPPORT AMOUNTS
1990

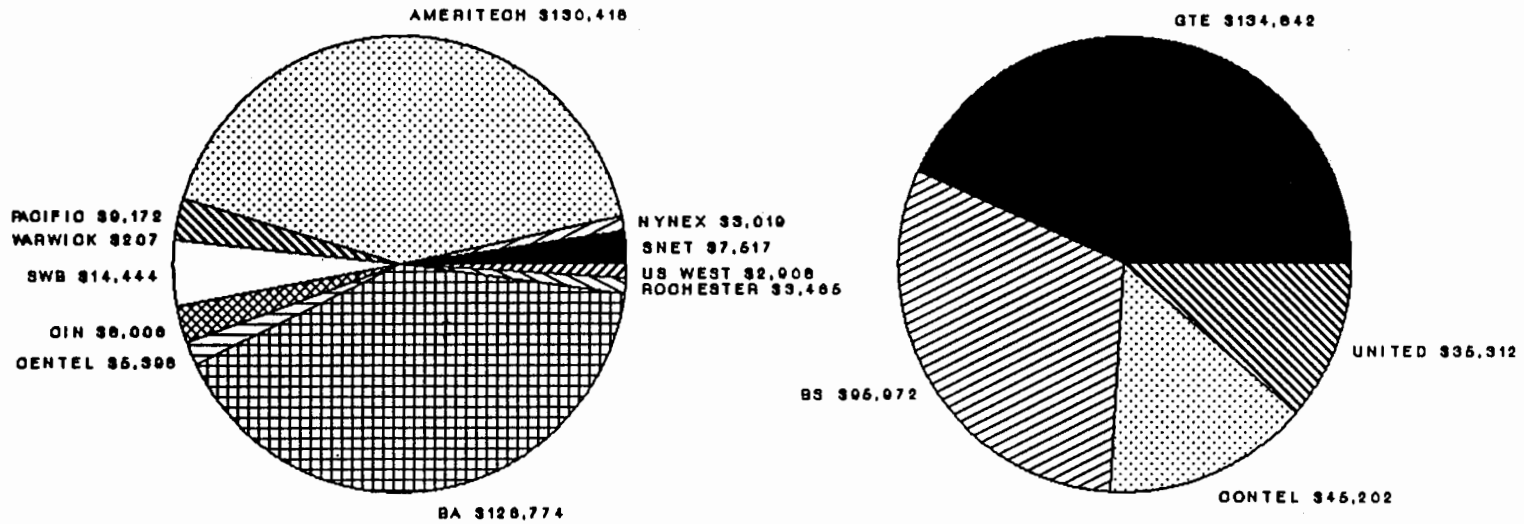
LEVEL 1 CONTRIBUTOR	(1) TRS AMOUNT*	(2) CONTRIBUTION FACTORS	(3)=(1)*(2) PAYMENT
SOUTHERN NEW ENGLAND TEL.	\$311,327,601	0.024144629258	\$7,516,890
AMERITECH	\$311,327,601	0.418907581190	\$130,417,492
BELL ATLANTIC	\$311,327,601	0.407204424667	\$126,773,977
NYNEX SVC. CO.	\$311,327,601	0.009698438350	\$3,019,392
PACIFIC TELESIS	\$311,327,601	0.029459837696	\$9,171,661
SOUTHWESTERN BELL	\$311,327,601	0.046392525252	\$14,443,274
CINCINNATI BELL	\$311,327,601	0.025715949951	\$8,006,085
CENTEL CORPORATION	\$311,327,601	0.017339514112	\$5,398,269
ROCHESTER TELEPHONE CORP	\$311,327,601	0.011130549108	\$3,465,247
WARWICK VALLEY	\$311,327,601	0.000666371948	\$207,460
U. S. WEST	\$311,327,601	0.009340178467	\$2,907,855
			=====
			\$311,327,601
			=====

*JAN - MAR CALCULATED @80% & APR - DEC CALCULATED @60%

01/12/90

CHART 7.1

1990 TRANSITIONAL SUPPORT (\$000s)



CONTRIBUTORS
\$311,327,601

RECEIVERS
\$311,327,601

TABLE 7.5

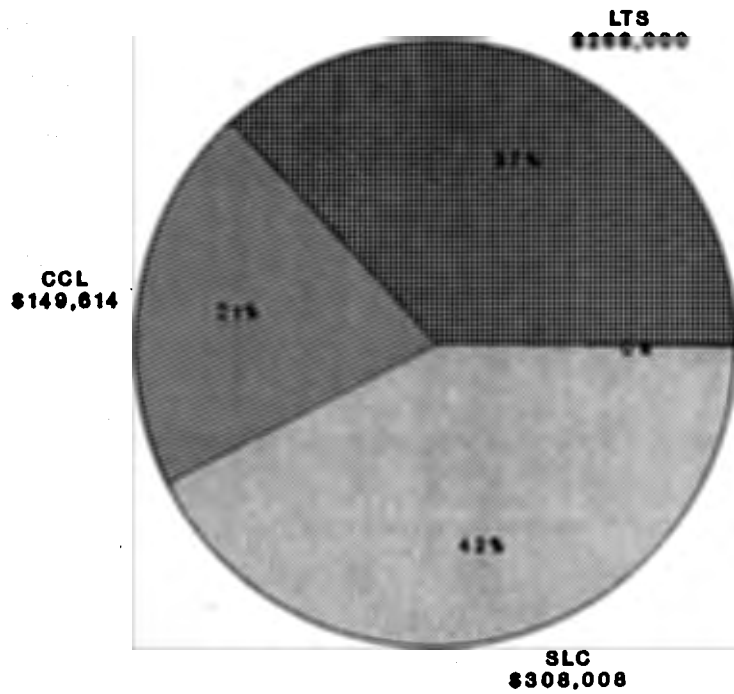
LEVEL 1 CONTRIBUTOR LONG TERM SUPPORT PAYMENTS
1990

LEVEL 1 CONTRIBUTOR -----	(1) LTS AMOUNT -----	(2) CONTRIBUTION FACTORS -----	(3)=(1)*(2) ANNUAL LTS -----
SOUTHERN NEW ENGLAND TEL.	\$268,000,000	0.024144629258	\$6,470,761
AMERITECH	\$268,000,000	0.418907581190	\$112,267,232
BELL ATLANTIC	\$268,000,000	0.407204424667	\$109,130,786
NYNEX SVC. CO.	\$268,000,000	0.009698438350	\$2,599,181
PACIFIC TELESIS	\$268,000,000	0.029459837696	\$7,895,237
SOUTHWESTERN BELL	\$268,000,000	0.046392525252	\$12,433,197
CINCINNATI BELL	\$268,000,000	0.025715949951	\$6,891,875
CENTEL CORPORATION	\$268,000,000	0.017339514112	\$4,646,990
ROCHESTER TELEPHONE CORP	\$268,000,000	0.011130549108	\$2,982,987
WARWICK VALLEY	\$268,000,000	0.000666371948	\$178,588
U. S. WEST	\$268,000,000	0.009340178467	\$2,503,168
			=====
			\$268,000,000
			=====

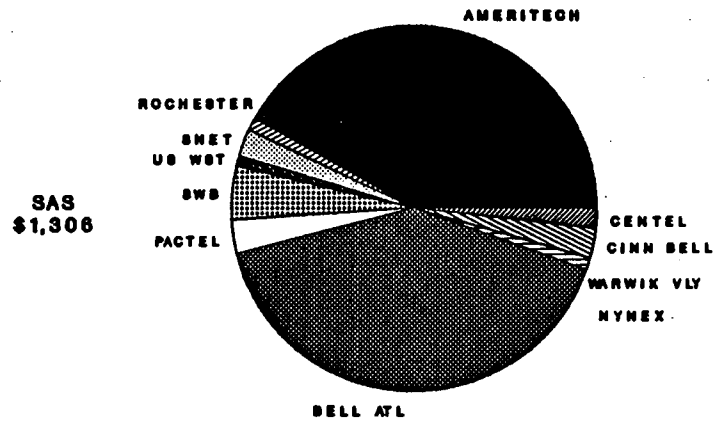
01/12/90

CHART 7.2

1990 NECA COMMON LINE POOL SOURCES OF REVENUE (\$000s)



NECA POOL (\$726,928)



LONG TERM SUPPORT (LTS)

- 261 -

TABLE 7.6

LEVEL 1 CONTRIBUTORS
 LTS AND TRS SUPPORT AMOUNTS
 BASED UPON \$0.0100 ORIGINATING RATE
 AND \$0.0153 TERMINATING RATE
 1990

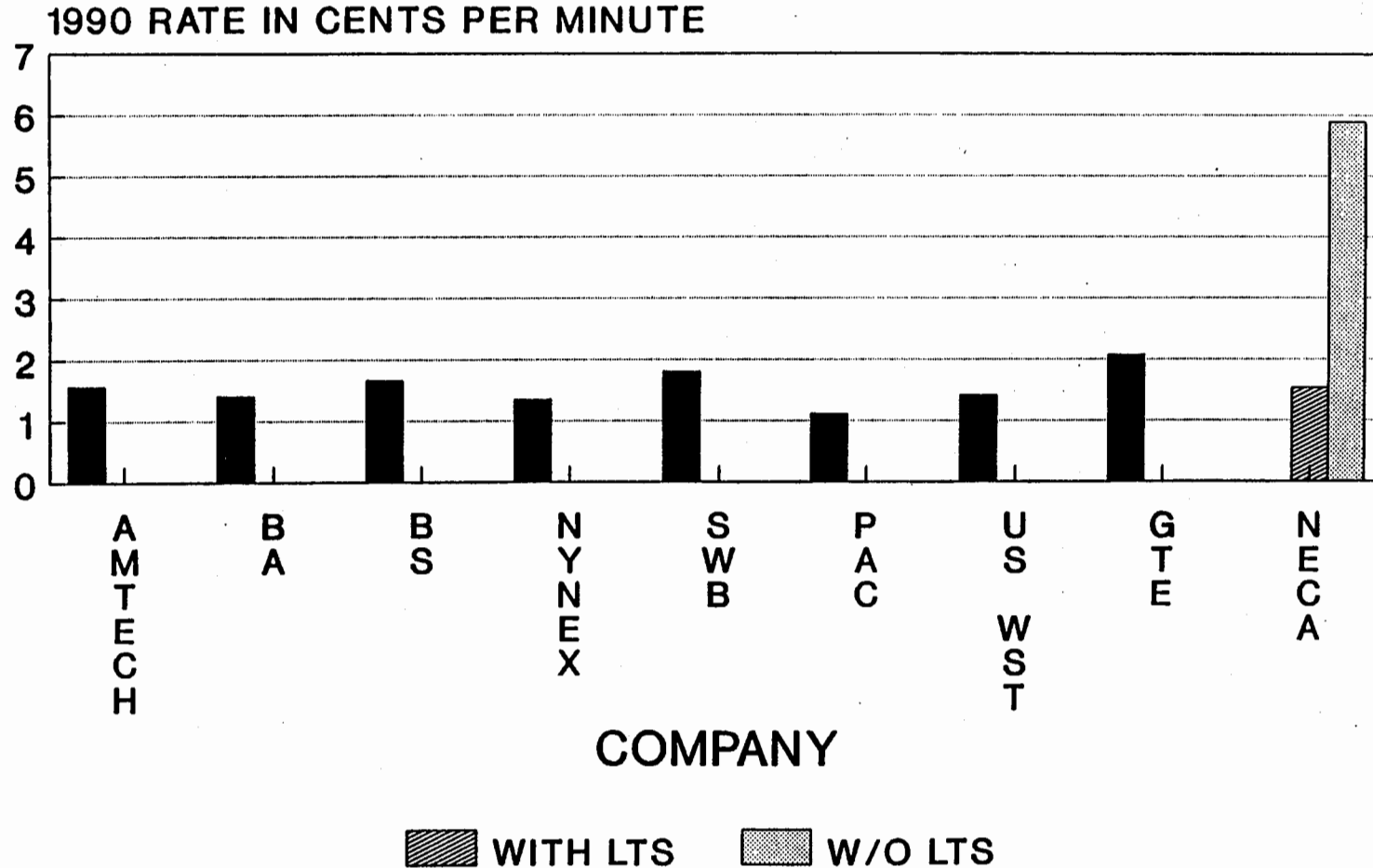
LEVEL 1 CONTRIBUTOR	(1) LTS AMOUNT	(2) CONTRIBUTION FACTORS	(3)=(1)*(2) ANNUAL LTS	(4) ANNUAL TRS*	(5)=(3)+(4) TOTAL SUPPORT
SOUTHERN NEW ENGLAND TEL.	\$268,000,000	0.024144629258	\$6,470,761	\$7,516,890	\$13,987,650
AMERITECH	\$268,000,000	0.418907581190	\$112,267,232	\$130,417,492	\$242,684,724
BELL ATLANTIC	\$268,000,000	0.407204424667	\$109,130,786	\$126,773,977	\$235,904,762
NYNEX SVC. CO.	\$268,000,000	0.009698438350	\$2,599,181	\$3,019,392	\$5,618,573
PACIFIC TELESIS	\$268,000,000	0.029459837696	\$7,895,237	\$9,171,661	\$17,066,897
SOUTHWESTERN BELL	\$268,000,000	0.046392525252	\$12,433,197	\$14,443,274	\$26,876,470
CINCINNATI BELL	\$268,000,000	0.025715949951	\$6,891,875	\$8,006,085	\$14,897,960
CENTEL CORPORATION	\$268,000,000	0.017339514112	\$4,646,990	\$5,398,269	\$10,045,259
ROCHESTER TELEPHONE CORP	\$268,000,000	0.011130549108	\$2,982,987	\$3,465,247	\$6,448,234
WARWICK VALLEY	\$268,000,000	0.000666371948	\$178,588	\$207,460	\$386,048
U. S. WEST	\$268,000,000	0.009340178467	\$2,503,168	\$2,907,855	\$5,411,023
			=====	=====	=====
			\$268,000,000	\$311,327,601	\$579,327,601
			=====	=====	=====

*TRS = JAN - MAR CALCULATED @80% & APR - DEC CALCULATED @60%

01/12/90

CHART 7.3

SUMMARIZED TERMINATING CCL RATES ORIGINATING RATE AT \$.01



8. Jurisdictional Shifts in Revenue Requirements

Recent action. Since issuing the previous monitoring report last July, the Commission issued an order in December 1989 providing specific reporting procedures.¹ This order includes a reporting form that LECs must use to report any substantial jurisdictional shifts in revenue requirements that were experienced in 1988 due to the implementation on January 1, 1988, of the Commission's Part 36 conformance/simplification rules changes.²

These new procedures require Tier 1 carriers to report, on a study area basis, all such jurisdictional shifts exceeding 5 percent of the total annual revenue requirements for the study area. Although mandatory for Tier 1 carriers, these reports are optional for all other carriers.

Using this new reporting form, LECs submitted data on January 25, 1990. We are in the process of analyzing the data and will provide the results in our next monitoring report, which will be issued in July 1990. Because these results are not yet available, the following discussion simply provides a background of the process by which this monitoring program and the reporting form were developed. Whether an additional report will be required for calendar year 1989 is a decision that the Commission has delegated to the Common Carrier Bureau.

Background. In April 1987, the Commission revised the jurisdictional separations rules to simplify them and to conform them to the revised Uniform System of Accounts. The Commission adopted all of the rules changes that had been recommended by the Docket 86-297 Joint Board. The Commission also adopted the Joint Board's recommendation that a review of the impact of these changes on jurisdictional revenue requirements be included in the monitoring program. This review is intended to address the concern that these changes might dramatically shift costs between jurisdictions, thereby leading to significant, unanticipated increases in rates.

1 Establishment of a Program to Monitor the Impact of Joint Board Decisions, CC Docket No. 87-339, FCC 89-336, Memorandum Opinion and Order, released December 26, 1989.

2 This reporting requirement therefore excludes the effect on jurisdictional revenue requirements of other separations rules changes, including those revisions relating to Central Office Equipment and the other revisions recommended by the Docket 80-286 Joint Board.

In July 1988, the Commission issued the Monitoring Reconsideration Order ³ to clarify the appropriate method for reporting these jurisdictional shifts. The Commission stated that neither it nor the Joint Board had intended to request that LECs report actual data rather than modeled data. The Commission noted that, to report actual data, the LECs would have to maintain dual accounting systems and perform complex and costly studies. The Commission observed that such procedures would contravene the goal of simplifying the separations process. The Commission therefore concluded that LECs may report data using a modeling approach.

The Commission further concluded that, because it is desirable that all LECs use the same modeling technique to ensure consistency, the Commission would examine alternative techniques and establish one as the method that all reporting carriers must use. The Commission therefore solicited suggestions, to be filed in this proceeding, as to which technique would be most appropriate. After studying the responsive pleadings, the Commission adopted reporting procedures, which we discussed above, on December 5, 1989.

3 Establishment of a Program to Monitor the Impact of Joint Board Decisions, CC Docket No. 87-339, FCC 88-244, released July 19, 1988. The Commission issued this order to act on issues raised in a Petition for Clarification and Reconsideration filed on October 28, 1987, by Pacific Bell and Nevada Bell.