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NEWS MEDIA CONTACT:
Mike Balmoris at (202) 418-0253
Email: mbalmori@fcc.gov

# FCC RELEASES TELEPHONE NUMBERING RESOURCE UTILIZATION REPORT 

## Numbering Resource Utilization at 39.7\%

Washington, D.C. - The Federal Communications Commission (FCC) today released its fourth report on telephone number utilization in the United States. Telephone number utilization refers to how well telephone numbers are being used by carriers. The report presents numbering resource utilization statistics based on December 31, 2001 data that carriers submitted to the North American Numbering Plan Administrator (NANPA), as well as other information submitted by the NANPA. The number utilization reports comprehensively examine telephone number utilization in the United States since the development of local competition.

## Summary Data

1. Utilization Statistics by Carrier - Reporting carriers have over 1.2 billion telephone numbers, of which 480 million were assigned to customers, more than 620 million were available to be assigned, and about 110 million were used for other purposes, such as for administrative use. New York has the two area codes with the highest utilization rates: area code 212 at $78.5 \%$ and area code 718 at $65.4 \%$. Following is utilization statistics by carrier type:

- The overall utilization rate for Incumbent Local Exchange Carriers (ILECs) is 52.5\%.
- The overall utilization rate for Competitive Local Exchange Carriers (CLECs) is $11.4 \%$.
- The overall utilization rate for Cellular/PCS carriers is $47.2 \%$.
- The overall utilization rate for Paging carriers is $20.2 \%$.

2. Telephone Numbers Returned - Carriers are returning large quantities of telephone numbers that they do not need to the North American Numbering Plan Administrator so that those numbers can be assigned to other carriers with more immediate needs. Each area code has up to 7.9 million usable telephone numbers, so in the first three quarters of 2001, carriers returned the equivalent of more than five area codes to the NANPA. No significant quantities of telephone numbers had been voluntarily returned to the NANPA before the second quarter of 1999.

- In the third quarter of 2001, carriers returned 16 million telephone numbers to the NANPA.
- In the fourth quarter of 2001 , carriers returned 14 million telephone numbers to the NANPA.
- In the first quarter of 2002 , carriers returned 12 million telephone numbers to the NANPA.

3. Number pooling - Where standard-sized blocks of 10,000 telephone numbers are divided into blocks of 1,000 numbers (thousands-blocks) so they can be used by several different carriers:

- As of January 1, 2002, 21 states had assigned pooled thousands-blocks to carriers in need of numbers.
- Over 100,000 thousands-blocks were reassigned through pooling. As each "block" contains 1,000 individual telephone numbers, this made over 100 million telephone numbers available to carriers in need of numbering resources.

This report is updated twice a year and is available in the FCC's Reference Information Center, Courtyard Level, 445 12th Street SW, Washington, DC 20554. Contact the Commission's duplicating contractor Qualex International at (202) 863-2893 to purchase a copy. This and many other reports can be downloaded from the FCC-State Link Internet site at www.fcc.gov/wcb/stats.
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Wireline Competition Bureau contact: Craig Stroup at (202) 418-0989; TTY (202) 418-0484.

# Numbering Resource Utilization in the United States as of December 31, 2001 

Craig Stroup<br>Industry Analysis and Technology Division<br>Wireline Competition Bureau<br>Federal Communications Commission

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This report is available for reference in the FCC's Reference Information Center, Courtyard Level, 445 12th Street SW, Washington, DC. 20554. Several private firms specialize in locating, duplicating, and distributing FCC documents. Documents may be purchased by calling Qualex International at (202) 863-2893, or (202) 8632898 (fax) or via e-mail at qualexint @ aol.com. Also, this and many other useful reports can be downloaded from the FCC-State Link Internet site at http://www.fcc.gov/wcb/stats.

# Numbering Resource Utilization in the United States As of December 31, 2001 

## Executive Summary

This is the Federal Communications Commission's (FCC's) report on numbering resource utilization in the United States. ${ }^{1}$ In this report, we summarize the fourth systematic collection of comprehensive data on the utilization of telephone numbers within the United States. The underlying information was acquired from carriers holding numbering resources and analyzed as part of our ongoing assessment of the efficacy of numbering resource optimization measures prescribed by the Commission's recent Numbering Resource Optimization (NRO) Orders. ${ }^{2}$

## Findings

As of December 31, 2001:

- Carriers reported data on over 1.2 billion telephone numbers. (see Table 1)
- Overall, carriers assigned $39.7 \%$ of their telephone numbers to end users. (see Table 1)
- New York has the two area codes with the greatest percentage of telephone numbers assigned to end users: area code 212 at $78.5 \%$, and area code 718 at $65.4 \%$. (see Table 6)
- Over 100 million telephone numbers had been assigned to carriers through thousandsblocks number pooling. (see Table 8)
- In the second half of 2001, 30 million telephone numbers were returned to the North American Numbering Plan Administrator. (see Table 12)


## Background

The United States uses ten-digit telephone numbers, which are organized in accordance with the North American Numbering Plan (NANP). ${ }^{3}$ The NANP divides the country into separate

[^0]geographic areas called numbering plan areas (NPAs), more commonly called area codes. Calls between these areas are generally dialed using the three-digit area code, followed by a seven-digit local telephone number.

When the NANP was established in 1947, only 86 area codes were assigned to carriers in the United States. ${ }^{4}$ Only 61 new codes were added during the next 50 years. But the rate of activation has increased dramatically since then. In 1997 alone, 32 new area codes were activated in the continental United States. Because the remaining supply of unassigned area codes is diminishing, and because a premature exhaust of area codes imposes significant costs on consumers, the Commission has taken a number of steps to ensure that the limited numbering resources are used efficiently. Among other things, the Commission requires carriers to submit data on numbering resource utilization and forecasts twice a year. The information is submitted using the Numbering Resource Utilization/Forecast (NRUF) form. ${ }^{5}$ Carriers controlling numbering resources for the purpose of providing services to their customers are required to file their NRUF forms with the North American Numbering Plan Administrator (NANPA) ${ }^{6}$ by February 1 and August 1 of each year. ${ }^{7}$

The administrator compiles the information submitted into a database and provides that database to the Commission. ${ }^{8}$ The information in this report presents number utilization as of December 31, 2001. It reflects all corrections and submissions that the NANPA received through April 22, 2002.

Historically, local telephone companies received geographic numbers in blocks of 10,000. These blocks of 10,000 numbers are often called NXXs and are identifiable as the first three digits of a seven-digit telephone number. ${ }^{9}$ One of the recent efforts to improve the efficiency with which numbers are used is "thousands-block pooling." Where thousands-block pooling is implemented, carriers with blocks of 1,000 numbers (thousands-blocks) ${ }^{10}$ that are not

Islands, Cayman Islands, Dominica, Dominican Republic, Grenada, Jamaica, Montserrat, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Trinidad and Tobago, and Turks \& Caicos. The data contained in this report are all limited to the United States and its overseas territories.

4 "Nationwide Numbering Plan and Dialing Procedures - Efficient Code Utilization and Conservation Program," Memorandum from AT\&T Assistant Vice President of Engineering (R. H. Kaschner) to Commercial Managers, page 1 (Mar. 25, 1974).
${ }^{5}$ See NRO Report and Order, 15 FCC Rcd 7574. FCC Form 502 and most other FCC forms can be downloaded from www.fcc.gov/formpage.html.
${ }^{6}$ The current NANPA is NeuStar, Inc.
${ }^{7}$ Numbering Resource Optimization, CC Docket 99-200, Order, 15 FCC Rcd 17005 (2000). June 30 data must be filed by August 1, and December 31 data must be filed by the following February 1.
${ }^{8}$ The NANPA's database is continually updated because not all carriers filed by the prescribed date, and because carriers sometimes file updated information throughout the year. Carriers missing the filing date may be the subject of enforcement action.
${ }^{9}$ A ten-thousands block is the block of 10,000 telephone numbers that have the same area code and the same NXX.
${ }^{10}$ A thousands-block is the block of 1,000 telephone numbers that have the same area code, the same NXX and the same thousands digit.
needed within a six-month window provide those blocks to a pooling administrator, which then assigns those thousands-blocks to other carriers in need of numbers. ${ }^{11}$ This effectively allows the assignment of numbers in blocks of 1,000 rather than 10,000. Most carriers are required to report their telephone number usage at the thousands-block level so that we can evaluate the efficacy of telephone number pooling. Carriers that meet the statutory definition of "rural telephone company" 12 and operate in non pooling areas are required to submit their number usage at the 10,000 -block (or NXX) level.

In this report, we present data for four types of carriers: ${ }^{13}$

- Incumbent Local Exchange Carriers (ILECs),
- Competitive Local Exchange Carriers (CLECs),
- Cellular/PCS Carriers, and
- Paging Carriers.

Carriers report on numbering resources in the following six categories:

- assigned,
- intermediate,
- reserved,
- aging,
- administrative, and
- available.

An assigned number is one that is in use by an end-user customer. Intermediate numbers are those that one carrier has assigned to another carrier (or to a non-carrier) so that the numbers may then be assigned to an end user. Reserved numbers are those that are being held by the service provider at the request of an end user for future use. Aging numbers are those that are being held out of use by the carrier for a period of time after the end user that last used it discontinues service. Administrative numbers include test numbers and other numbers used for network purposes. Available numbers are numbers that are generally available for assignment to customers. ${ }^{14}$

Some carriers receive telephone numbers from other carriers. When this occurs, the carrier that received its numbers from another carrier (as opposed to directly from the NANPA) is

[^1]required to report utilization data for those numbers, and to mark those numbers as having been received from other carriers. ${ }^{15}$

The vast majority of numbering resources reported were part of geographic area codes. That is, the numbers were part of area codes that are associated with specific regions of the United States. Carriers are also required to report utilization on some non-geographic area codes, such as 500 numbers and 900 numbers (which are described later in this report).

There are other non-geographic numbering resources as well. Carriers use millions of numbers to provide toll-free services using non-geographic area codes such as $800,888,877$ and so forth. These numbering resources are managed separately. They are neither reported on FCC Form 502, nor addressed in this report. ${ }^{16}$

## $\underline{\text { Analysis and Results }}$

Number Utilization by Carrier Type:
Table 1 shows the quantity of telephone numbers reported in each of the six categories and the percentages of telephone numbers that are in each category. Table 1 also shows the number of 10,000 blocks (or NXXs) associated with these numbers.

Carriers reported on about 119,600 NXXs. This amount is up from the 115,500 NXXs in the previous filing (data for June 30, 2001). As the NANPA calculates that about 127,000 NXXs have been assigned to United States carriers, ${ }^{17}$ it appears that this data collection garnered information on $94 \%$ of those numbering resources. Although reporting is up from the last filing, many carriers still had not provided usable utilization data by April 22, 2002.

Among filing carriers, 480 million telephone numbers are reported as being assigned and more than 625 million are reported to be available for assignment, indicating that the quantity of numbers available for assignment exceeds the number already assigned. These 625 million available telephone numbers do not include any of the telephone numbers in NXXs that had not yet been assigned by the NANPA. As more NXXs are assigned to carriers by the NANPA, and as more area codes are opened up, more numbers will become available for assignment. Intermediate, reserved, aging and administrative categories collectively account for another 110 million telephone numbers.

[^2]
## Detail of Number Utilization:

Table 2 presents utilization statistics for carriers that reported at the thousands-block level. Carriers that do not meet the statutory definition of a rural carrier are required to report at the thousands-block level. Of all the NXXs reported on, about $90 \%$ were reported on at the thousands-block level. As does Table 1, Table 2 shows the quantity of telephone numbers reported in each of the six categories and the percentages of telephone numbers that are in each category. The table shows non-rural carriers assigned $42 \%$ of their numbers to their customers.

Table 3 shows the same information as Table 2, but for rural carriers, which reported at the 10,000 block level. Carriers that meet the statutory definition of a rural carrier are required to report at the 10,000 block level. ${ }^{18}$ Rural carriers assigned $17.2 \%$ of their numbers to their customers. As might be expected, overall utilization rates are reported to be lower in rural areas ( $17 \%$ ) than in more urban areas ( $42 \%$ ).

State-by-State Information:
Table 4 shows similar utilization statistics on a state-by-state basis. As might be expected, states that are relatively rural and have low population densities have fewer telephone numbers assigned to end-user customers, and have a lower percentage of numbers that have been assigned to end-user customers than in more urban, populous states. As noted earlier, carriers report for only those numbers that have been assigned to them, so the quantity of available numbers does not include any of the NXXs that had not yet been assigned to a carrier.

Table 5 shows the number of carriers reporting telephone number utilization data for each state. Carriers are required to report their NRUF data at the Operating Company Number (OCN) level. ${ }^{19}$ Carriers typically obtain one or more OCNs per state in which they operate. The number of carriers in each state is based on the number of OCNs reported in each state.

## Area Code-by-Area Code Information:

Table 6 shows utilization statistics on an area code-by-area code basis. The table also shows the month in which the area code was opened for use, and the total number of carriers (OCNs) that reported data for each area code. Again, carriers report for only those numbers that have been assigned to them, so the quantity of available numbers does not include any of the NXXs in the state that had not yet been assigned to a carrier.

[^3]Table 7 shows actual quantities of assigned, aging and available numbers for wireline carriers (ILECs and CLECs), and for cellular/PCS carriers (wireless carriers). This information is presented on an area code-by-area code basis. The information in Table 7 is useful for at least two reasons. First, there is no information on the number of telephone lines in each area code. The number of lines per area code cannot be perfectly divined from this information. Although cellular/PCS carriers typically assign one geographic telephone number to each subscriber, wireline carriers sometimes do not. Some wireline customers want multiple telephone numbers associated with a smaller number of lines. This is common when the customer has a PBX. Other customers, especially those expecting many inbound calls-such as from a help line, want a single telephone number that serves many lines. Thus, the quantity of telephone numbers in an area code provides only a rough guide to the number of lines served in each area code.

Second, the information in Table 7 provides the only information available for examining churn on an area code-by-area code basis and wireline-versus-wireless basis. ${ }^{20}$ After a customer disconnects from a carrier's network, that carrier will hold a number out of circulation ("age" the number) for up to ninety days if the customer was a residential subscriber, and up to one year if the customer was a business subscriber. Therefore, the quantity of aging numbers gives some indication of the number of customers that have disconnected carriers' networks in the previous three months to a year. Aging numbers, however, do not give a perfect indication of churn, because not all carriers age their numbers for the full time allowed. In particular, where carriers cannot immediately obtain new numbers from the NANPA, and have no other available numbers to assign, carriers may assign numbers that have not completed their aging process. Also, as mentioned in the previous paragraph, wireline carriers do not always issue one telephone number per line. Thus, as with line counts, churn rates can only be roughly estimated from the data in Table 7.

Additional Information:
Table 8 focuses on telephone number pooling. A thousands-block is potentially poolable when $90 \%$ or more of the numbers are classified as available for assignment. Pooling utilizes number porting technology, which the FCC required to be implemented within the top 100 metropolitan statistical areas (MSAs) as they were defined in 1996. ${ }^{21}$ Prior to the implementation of national pooling, several states received delegated authority to implement thousands-block pooling trials. Pooling had already commenced in many areas inside and outside of the top 100 MSAs by the end of 2001. The Commission established a roll-out schedule for thousands-block number pooling that commenced March 15, 2002. ${ }^{22}$

Table 8 shows the number of thousands-blocks that have been pooled and the number of thousands-blocks that are potentially poolable. The January 2002 Local Exchange Routing Guide (LERG) was used to determine the number of thousands-blocks that have been pooled.

[^4]NeuStar's NRUF database was used to determine the number of thousands-blocks where at least $90 \%$ of the numbers were available, and, therefore, potentially poolable. Table 8 also shows the number of thousands-blocks that could be available if pooling were implemented statewide. Given that pooling may not be implemented in all areas where pooling is possible, and that carriers with poolable numbering resources are allowed to retain a six-month inventory of numbers in each rate center, the numbers of poolable thousands-blocks shown in Table 8 are overstated. Wireless carriers are listed separately from CLECs and ILECs because wireless carriers are not required to implement pooling until November 24, 2002.

Figures 1 through 4 focus on utilization rates as a function of the number of thousands-blocks that the carriers hold in a local geographic area. ${ }^{23}$ Where carriers have sought and received multiple NXXs (each NXX contains 10 thousands-blocks) within the same area, they should generally be able to achieve higher utilization rates. We have used "rate centers" as our measure of local geographic area because thousands-blocks are assigned to carriers on a rate center basis. ${ }^{24}$ The figures in the previous versions of this report examined whole NXXs. Thousands-blocks are used here because number pooling has increased dramatically since the last data collection, and now many carriers no longer have whole NXXs in each rate center.

Figure 1 shows average ILEC utilization rates as a function of the number of thousandsblocks in a rate center held by the same carrier. The points in the figures were calculated using a three-step process. First, all reported thousands-blocks were grouped based on the number of thousands-blocks held by the same carrier that were used within the same rate center. Some carriers had only one thousands-block in a rate center, others had thousands. Second, the number of thousands-blocks being held in a rate center was rounded to the nearest ten, so many observations could be grouped together. This protects the confidentiality of the data. Third, for each grouping (i.e., for all instances where there were 10 thousands-blocks in a rate center, 20 thousands-blocks in a rate center, and so forth), the average utilization rate was calculated. ${ }^{25}$ In other words, an average utilization rate was calculated for all instances where, for one carrier, in one rate center, the rounded number of thousands-blocks was $10,20,30$, and so on through 1,000 thousands-blocks in a rate center. Figures 2 through 4 show the same information for CLECs, Cellular/PCS carriers and paging carriers.

Table 9 shows utilization data for two specialized NPAs: 500 and 900 . The 500 NPA is used for "follow me" service, which, among other things, can be used to route an incoming call to different phone numbers, depending on the time of day. The 900 NPA is used for information services where the caller is not charged the normal long distance rates set by the caller's long distance carrier, but usually is charged much higher prices that are preset by the

[^5]call's recipient. Carriers reported utilization data for these specialized NPAs for the first time in their June 2001 filings.

There are three different databases that contain sources of NPA-NXX assignment information: NANPA's NRUF database, NANPA's database of NPA-NXX assignments, and the Local Exchange Routing Guide (LERG). ${ }^{26}$ For a variety of reasons, the databases are not identical. The timing of the comparison of the databases is a large factor in this. For example, during an area code split, a carrier will maintain both the old and ne w NPA-NXXs in its systems during the phase called permissive dialing. ${ }^{27}$ After permissive dialing ends, the carrier should remove the old NPA-NXXs from its systems. Carriers may not do this immediately, however, and may report utilization data on both the old and the new NPANXXs. Similarly, the carrier may not update the LERG immediately. Thus, the NRUF database, the LERG and the NANPA assignment database may not be identical. Table 10 shows the number of NPA-NXXs that appear in the three databases.

Table 11 shows utilization rates over time. Over the last twelve months, utilization has been generally increasing for ILECs, CLECs and cellular/PCS carriers. The size of the paging market is shrinking, however, and their telephone number utilization rates are dropping.

Table 12 shows, on a quarterly basis, the number of NXX assignments made by the NANPA, the number of NXXs that have been returned to the NANPA, and the number of net NXX assignments to carriers. The table shows that fewer NXXs are being issued each quarter, and the number of NXXs that the carriers have returned to the NANPA for reassignment is up sharply.

## Technical Details

The following material provides technical details on the data and procedures used in this analysis. With respect to Tables 1 through 3 , the reader should note that the number of unique NXXs for each carrier type does not add up to the total number of unique NXXs. ${ }^{28}$ This occurs when multiple carriers report data for the same numbering resource. In addition, some carriers reported at the thousands-block level and other carriers reported at the NXX level for the same NXX.

In the past, when numbers were transferred from an ILEC to another carrier, these numbers were classified as "assigned," because those numbers could not be used elsewhere in the ILEC's own system. According to the Commission's standardized definitions, however, these numbers are classified as "intermediate" numbers. It appears that some carriers have not reported these numbers as intermediate numbers. Because, in many instances, we were unable to match submissions that report intermediate numbers with submissions that report

[^6]numbers as being received from another carrier, we had to create filters to ensure that numbers were not double counted.

For ease of comparison, Figures 1 through 4 plot utilization rates only when there were 1,000 or fewer thousands-blocks in a rate center. Some ILECs and Cellular/PCS carriers reported more than 1,000 unique thousands-blocks in a single rate center. For both types of carriers, however, the average utilization rates remained unchanged when there were more than 1,000 thousands-blocks in a rate center. The figures therefore show only the data where the carriers reported up to 1,000 thousands-blocks within a rate center, so that a linear scale could be used.

In some instances, we observed that some CLECs had a large number of thousands-blocks in a single rate center. Although most CLECs do not have enough end-user lines in a rate center to warrant having so many thousands-blocks in that rate center, there are at least two reasons that a CLEC would do so. First, some CLECs provide service to unified messaging services. ${ }^{29}$ These services may use large quantities of numbers. ${ }^{30}$ Second, as do other types of carriers, some CLECs are operating in areas undergoing area code splits, where the area code will change for many of its thousands-blocks. When this happens, a CLEC may maintain two thousands-blocks (one NXX using the old area code, and another NXX using the new area code) in its systems for a period of time so that callers can adapt to the new area code.

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We invite users of this information to provide suggestions for improved data collection and analysis by 1) using the attached customer response form; 2) e-mailing comments to cstroup@fcc.gov; or 3) calling the Industry Analysis and Technology Division at (202) 4180940; for TTY, call (202) 418-0484.

[^7]Table 1
Number Utilization by Carrier Type as of December 31, 2001

| Carrier Type | Assigned | Intermediate | Reserved <br> (Thousands of telephone numbers) | Aging | Admin | Available $^{1}$ | Total | Unique <br> NXXs |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| ILEC | 305,430 | 23,717 | 11,034 | 18,850 | 8,539 | 213,959 | 581,529 | 59,225 |
| CLEC | 30,941 | 3,082 | 4,712 | 2,720 | 2,654 | 228,252 | 272,361 | 27,618 |
| Cellular/PCS | 128,493 | 4,960 | 3,209 | 11,652 | 3,677 | 120,348 | 272,339 | 26,521 |
| Paging | 18,001 | 4,110 | 1,576 | 2,062 | 268 | 63,318 | 89,334 | 6,642 |
| All Reporting Carriers | 482,865 | 35,869 | 20,531 | 35,284 | 15,137 | 625,877 | $1,215,563$ | $119,589^{2}$ |
| ILEC | $52.5 \%$ | $4.1 \%$ | $1.9 \%$ | $3.2 \%$ | $1.5 \%$ | $36.8 \%$ | $100.0 \%$ |  |
| CLEC | $11.4 \%$ | $1.1 \%$ | $1.7 \%$ | $1.0 \%$ | $1.0 \%$ | $83.8 \%$ | $100.0 \%$ |  |
| Cellular/PCS | $47.2 \%$ | $1.8 \%$ | $1.2 \%$ | $4.3 \%$ | $1.4 \%$ | $44.2 \%$ | $100.0 \%$ |  |
| Paging | $20.2 \%$ | $4.6 \%$ | $1.8 \%$ | $2.3 \%$ | $0.3 \%$ | $70.9 \%$ | $100.0 \%$ |  |
| All Reporting Carriers | $39.7 \%$ | $3.0 \%$ | $1.7 \%$ | $2.9 \%$ | $1.2 \%$ | $51.5 \%$ | $100.0 \%$ |  |

Table 2
Detail of Number Utilization: Non-rural Carriers (Reported at the Thousands-block Level)

| Carrier Type | Assigned | Intermediate | Reserved <br> (Thous | Aging <br> of teleph | Admin <br> numbers) | Available ${ }^{1}$ | Total | Unique NXXs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ILEC | 289,868 | 21,500 | 6,945 | 17,703 | 8,040 | 151,329 | 495,385 | 50,635 |
| CLEC | 30,467 | 3,075 | 4,495 | 2,701 | 2,609 | 216,680 | 260,029 | 26,408 |
| Cellular/PCS | 125,757 | 4,947 | 2,831 | 11,422 | 3,634 | 113,074 | 261,665 | 25,470 |
| Paging | 17,623 | 4,102 | 1,494 | 2,027 | 263 | 61,833 | 87,342 | 6,454 |
| All Reporting Carriers | 463,715 | 33,625 | 15,764 | 33,853 | 14,547 | 542,916 | 1,104,421 | 108,076 ${ }^{2}$ |
| ILEC | 58.5\% | 4.3\% | 1.4\% | 3.6\% | 1.6\% | 30.5\% | 100.0\% |  |
| CLEC | 11.7\% | 1.2\% | 1.7\% | 1.0\% | 1.0\% | 83.3\% | 100.0\% |  |
| Cellular/PCS | 48.1\% | 1.9\% | 1.1\% | 4.4\% | 1.4\% | 43.2\% | 100.0\% |  |
| Paging | 20.2\% | 4.7\% | 1.7\% | 2.3\% | 0.3\% | 70.8\% | 100.0\% |  |
| All Reporting Carriers | 42.0\% | 3.0\% | 1.4\% | 3.1\% | 1.3\% | 49.2\% | 100.0\% |  |

Table 3
Detail of Number Utilization: Rural Carriers (Reported at the NXX Level)

| Carrier Type | Assigned | Intermediate | Reserved (Thous | Aging of telep | Admin numbers) | Available ${ }^{1}$ | Total | Unique NXXs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ILEC | 15,562 | 2,216 | 4,089 | 1,147 | 498 | 62,630 | 86,144 | 8,600 |
| CLEC | 473 | 7 | 217 | 19 | 44 | 11,572 | 12,333 | 1,233 |
| Cellular/PCS | 2,736 | 13 | 379 | 230 | 43 | 7,274 | 10,675 | 1,059 |
| Paging | 378 | 8 | 82 | 35 | 5 | 1,484 | 1,992 | 188 |
| All Reporting Carriers | 19,149 | 2,244 | 4,767 | 1,431 | 591 | 82,960 | 111,143 | 11,080 |
| ILEC | 18.1\% | 2.6\% | 4.7\% | 1.3\% | 0.6\% | 72.7\% | 100.0\% |  |
| CLEC | 3.8\% | 0.1\% | 1.8\% | 0.2\% | 0.4\% | 93.9\% | 100.0\% |  |
| Cellular/PCS | 25.6\% | 0.1\% | 3.5\% | 2.2\% | 0.4\% | 68.1\% | 100.0\% |  |
| Paging | 19.0\% | 0.4\% | 4.1\% | 1.8\% | 0.2\% | 74.5\% | 100.0\% |  |
| All Reporting Carriers | 17.2\% | 2.0\% | 4.3\% | 1.3\% | 0.5\% | 74.7\% | 100.0\% |  |

Source: Numbering Resource Utilization/Forecast forms filed with NeuStar, Inc. as of April 22, 2002 ( $94 \%$ of NXXs reported).
${ }^{1}$ Includes only telephone numbers in NXXs assigned to carriers and therefore available for assignment to customers. Does not include any numbers in NXXs that have not yet been assigned to carriers.
${ }^{2}$ Unduplicated total.
Note: Figures may not add due to rounding.

Table 4
Telephone Number Utilization by State as of December 31, 2001

| State/jurisdiction | Assigned |  | Intermediate |  | Reserved |  | Aging |  | Administrative |  | Available ${ }^{1}$ |  | $\begin{aligned} & \text { Total } \\ & 000 \mathrm{~s} \\ & \hline \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 000s | \% | 000s | \% | 000s | \% | 000s | \% | 000s | \% | 000s | \% |  |
| Alabama | 6,340 | 37.5 | 1,138 | 6.7 | 173 | 1.0 | 499 | 3.0 | 334 | 2.0 | 8,403 | 49.8 | 16,887 |
| Alaska | 1,027 | 21.7 | 12 | 0.3 | 51 | 1.1 | 65 | 1.4 | 24 | 0.5 | 3,542 | 75.0 | 4,722 |
| Arizona | 9,767 | 52.1 | 295 | 1.6 | 362 | 1.9 | 747 | 4.0 | 184 | 1.0 | 7,381 | 39.4 | 18,737 |
| Arkansas | 3,349 | 28.8 | 701 | 6.0 | 153 | 1.3 | 207 | 1.8 | 91 | 0.8 | 7,139 | 61.3 | 11,639 |
| California | 58,005 | 39.7 | 7,640 | 5.2 | 1,333 | 0.9 | 4,073 | 2.8 | 2,115 | 1.4 | 73,062 | 50.0 | 146,228 |
| Colorado | 9,472 | 50.6 | 76 | 0.4 | 295 | 1.6 | 832 | 4.4 | 273 | 1.5 | 7,773 | 41.5 | 18,722 |
| Connecticut | 5,549 | 38.7 | 884 | 6.2 | 122 | 0.9 | 318 | 2.2 | 177 | 1.2 | 7,278 | 50.8 | 14,328 |
| Delaware | 1,701 | 38.2 | 33 | 0.7 | 74 | 1.7 | 92 | 2.1 | 56 | 1.3 | 2,500 | 56.1 | 4,458 |
| District of Columbia | 2,916 | 56.0 | 61 | 1.2 | 406 | 7.8 | 224 | 4.3 | 35 | 0.7 | 1,561 | 30.0 | 5,204 |
| Florida | 28,914 | 45.7 | 2,954 | 4.7 | 920 | 1.5 | 2,605 | 4.1 | 927 | 1.5 | 26,892 | 42.5 | 63,212 |
| Georgia | 14,715 | 43.6 | 2,114 | 6.3 | 811 | 2.4 | 1,245 | 3.7 | 378 | 1.1 | 14,484 | 42.9 | 33,748 |
| Guam | 61 | 43.6 | 3 | 2.1 | 2 | 1.4 | 2 | 1.4 | 1 | 0.7 | 71 | 50.7 | 140 |
| Hawaii | 2,236 | 48.2 | 79 | 1.7 | 8 | 0.2 | 175 | 3.8 | 61 | 1.3 | 2,080 | 44.8 | 4,638 |
| Idaho | 2,134 | 37.8 | 17 | 0.3 | 44 | 0.8 | 125 | 2.2 | 92 | 1.6 | 3,239 | 57.3 | 5,651 |
| Illinois | 20,811 | 36.0 | 1,512 | 2.6 | 1,948 | 3.4 | 1,502 | 2.6 | 776 | 1.3 | 31,218 | 54.0 | 57,768 |
| Indiana | 8,350 | 34.0 | 372 | 1.5 | 404 | 1.6 | 612 | 2.5 | 363 | 1.5 | 14,489 | 58.9 | 24,591 |
| Iowa | 4,136 | 30.2 | 155 | 1.1 | 211 | 1.5 | 527 | 3.9 | 300 | 2.2 | 8,351 | 61.0 | 13,681 |
| Kansas | 3,858 | 26.8 | 800 | 5.6 | 247 | 1.7 | 242 | 1.7 | 172 | 1.2 | 9,057 | 63.0 | 14,376 |
| Kentucky | 5,591 | 33.0 | 573 | 3.4 | 189 | 1.1 | 468 | 2.8 | 245 | 1.4 | 9,880 | 58.3 | 16,946 |
| Louisiana | 6,658 | 37.0 | 1,388 | 7.7 | 157 | 0.9 | 764 | 4.2 | 240 | 1.3 | 8,789 | 48.8 | 17,996 |
| Maine | 1,875 | 38.3 | 17 | 0.3 | 93 | 1.9 | 70 | 1.4 | 26 | 0.5 | 2,818 | 57.5 | 4,900 |
| Maryland | 10,880 | 45.5 | 282 | 1.2 | 407 | 1.7 | 679 | 2.8 | 294 | 1.2 | 11,374 | 47.6 | 23,916 |
| Massachusetts | 15,401 | 44.0 | 275 | 0.8 | 589 | 1.7 | 720 | 2.1 | 250 | 0.7 | 17,744 | 50.7 | 34,979 |
| Michigan | 15,002 | 31.8 | 468 | 1.0 | 1,001 | 2.1 | 1,271 | 2.7 | 689 | 1.5 | 28,678 | 60.9 | 47,108 |
| Minnesota | 9,047 | 39.6 | 158 | 0.7 | 1,280 | 5.6 | 656 | 2.9 | 196 | 0.9 | 11,529 | 50.4 | 22,866 |
| Mississippi | 3,370 | 27.9 | 798 | 6.6 | 58 | 0.5 | 286 | 2.4 | 95 | 0.8 | 7,461 | 61.8 | 12,068 |
| Missouri | 8,856 | 33.2 | 654 | 2.5 | 435 | 1.6 | 616 | 2.3 | 281 | 1.1 | 15,812 | 59.3 | 26,653 |
| Montana | 1,103 | 21.9 | 24 | 0.5 | 14 | 0.3 | 66 | 1.3 | 23 | 0.5 | 3,816 | 75.6 | 5,046 |
| Nebraska | 2,819 | 30.5 | 103 | 1.1 | 396 | 4.3 | 305 | 3.3 | 86 | 0.9 | 5,532 | 59.9 | 9,241 |
| Nevada | 3,704 | 47.7 | 191 | 2.5 | 65 | 0.8 | 261 | 3.4 | 128 | 1.6 | 3,420 | 44.0 | 7,769 |
| New Hampshire | 2,504 | 39.9 | 30 | 0.5 | 91 | 1.4 | 90 | 1.4 | 53 | 0.8 | 3,509 | 55.9 | 6,277 |
| New Jersey | 16,219 | 42.7 | 471 | 1.2 | 632 | 1.7 | 1,000 | 2.6 | 305 | 0.8 | 19,390 | 51.0 | 38,017 |
| New Mexico | 2,651 | 42.0 | 38 | 0.6 | 79 | 1.3 | 190 | 3.0 | 71 | 1.1 | 3,276 | 52.0 | 6,305 |
| New York | 34,139 | 53.1 | 742 | 1.2 | 2,127 | 3.3 | 2,237 | 3.5 | 579 | 0.9 | 24,411 | 38.0 | 64,236 |
| North Carolina | 13,276 | 41.8 | 1,544 | 4.9 | 494 | 1.6 | 944 | 3.0 | 289 | 0.9 | 15,178 | 47.8 | 31,725 |
| North Dakota | 910 | 18.7 | 61 | 1.3 | 73 | 1.5 | 76 | 1.6 | 27 | 0.6 | 3,706 | 76.3 | 4,854 |
| Northern Marianas Is. | 12 | 66.7 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 0 | 0.0 | 6 | 33.3 | 18 |
| Ohio | 17,455 | 37.6 | 627 | 1.3 | 734 | 1.6 | 1,165 | 2.5 | 576 | 1.2 | 25,892 | 55.7 | 46,448 |
| Oklahoma | 4,583 | 30.6 | 962 | 6.4 | 100 | 0.7 | 322 | 2.2 | 188 | 1.3 | 8,807 | 58.9 | 14,961 |
| Oregon | 5,932 | 45.2 | 34 | 0.3 | 122 | 0.9 | 518 | 3.9 | 163 | 1.2 | 6,357 | 48.4 | 13,127 |
| Pennsylvania | 19,589 | 35.7 | 484 | 0.9 | 812 | 1.5 | 1,168 | 2.1 | 480 | 0.9 | 32,325 | 58.9 | 54,858 |
| Puerto Rico | 3,674 | 54.5 | 90 | 1.3 | 37 | 0.5 | 140 | 2.1 | 16 | 0.2 | 2,779 | 41.3 | 6,736 |
| Rhode Island | 2,051 | 41.4 | 48 | 1.0 | 78 | 1.6 | 94 | 1.9 | 26 | 0.5 | 2,658 | 53.6 | 4,955 |
| South Carolina | 6,255 | 41.3 | 972 | 6.4 | 195 | 1.3 | 449 | 3.0 | 235 | 1.6 | 7,031 | 46.5 | 15,136 |
| South Dakota | 1,008 | 20.0 | 54 | 1.1 | 31 | 0.6 | 77 | 1.5 | 56 | 1.1 | 3,808 | 75.6 | 5,034 |
| Tennessee | 9,016 | 40.5 | 1,163 | 5.2 | 112 | 0.5 | 832 | 3.7 | 199 | 0.9 | 10,940 | 49.1 | 22,263 |
| Texas | 35,015 | 38.3 | 3,983 | 4.4 | 895 | 1.0 | 2,859 | 3.1 | 1,504 | 1.6 | 47,268 | 51.6 | 91,523 |
| US Virgin Is. | 129 | 48.0 | 9 | 3.3 | 31 | 11.5 | 29 | 10.8 | 3 | 1.1 | 67 | 24.9 | 269 |
| Utah | 4,706 | 44.3 | 48 | 0.5 | 134 | 1.3 | 309 | 2.9 | 130 | 1.2 | 5,293 | 49.8 | 10,621 |
| Vermont | 914 | 19.2 | 4 | 0.1 | 33 | 0.7 | 23 | 0.5 | 155 | 3.3 | 3,625 | 76.3 | 4,753 |
| Virginia | 13,412 | 49.8 | 257 | 1.0 | 524 | 1.9 | 869 | 3.2 | 343 | 1.3 | 11,529 | 42.8 | 26,933 |
| Washington | 11,713 | 46.4 | 101 | 0.4 | 328 | 1.3 | 959 | 3.8 | 344 | 1.4 | 11,786 | 46.7 | 25,231 |
| West Virginia | 2,026 | 33.0 | 20 | 0.3 | 58 | 0.9 | 119 | 1.9 | 54 | 0.9 | 3,871 | 63.0 | 6,148 |
| Wisconsin | 7,257 | 30.2 | 344 | 1.4 | 552 | 2.3 | 503 | 2.1 | 377 | 1.6 | 15,033 | 62.5 | 24,065 |
| Wyoming | 771 | 27.1 | 6 | 0.2 | 9 | 0.3 | 56 | 2.0 | 50 | 1.8 | 1,958 | 68.7 | 2,850 |
| Totals | 482,865 | 39.7 | 35,869 | 3.0 | 20,531 | 1.7 | 35,284 | 2.9 | 15,137 | 1.2 | 625,877 | 51.5 | 1,215,563 |

Source: Numbering Resource Utilization/Forecast forms filed with NeuStar as of April 22, 2002.
${ }^{1}$ Includes only telephone numbers in NXXs assigned to carriers and therefore available for assignment to customers. Does not include any numbers in NXXs that have not yet been assigned to carriers.
Note: Figures may not add due to rounding.

Table 5
Number of Carriers Reporting Numbering Resources as of December 31, 2001 ${ }^{1}$

| State/jurisdiction | ILECs ${ }^{2}$ | CLECs ${ }^{2}$ | Cellular/PCS ${ }^{2}$ | Paging Carriers ${ }^{2}$ | Total Carriers |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Alabama | 26 | 17 | 23 | 8 | 74 |
| Alaska | 19 | 5 | 7 | 2 | 33 |
| Arizona | 18 | 26 | 16 | 12 | 72 |
| Arkansas | 26 | 14 | 11 | 6 | 57 |
| California | 24 | 47 | 22 | 19 | 112 |
| Colorado | 27 | 24 | 16 | 8 | 75 |
| Connecticut | 2 | 19 | 7 | 10 | 38 |
| Delaware | 1 | 19 | 7 | 9 | 36 |
| District of Columbia | 1 | 26 | 6 | 9 | 42 |
| Florida | 12 | 42 | 24 | 15 | 93 |
| Georgia | 32 | 46 | 26 | 12 | 116 |
| Guam | 0 | 0 | 3 | 1 | 4 |
| Hawaii | 2 | 2 | 7 | 3 | 14 |
| Idaho | 20 | 13 | 18 | 1 | 52 |
| Illinois | 56 | 38 | 35 | 13 | 142 |
| Indiana | 38 | 34 | 24 | 17 | 113 |
| Iowa | 148 | 41 | 20 | 6 | 215 |
| Kansas | 33 | 20 | 17 | 8 | 78 |
| Kentucky | 21 | 32 | 26 | 10 | 89 |
| Louisiana | 20 | 24 | 24 | 10 | 78 |
| Maine | 16 | 14 | 8 | 2 | 40 |
| Maryland | 2 | 34 | 13 | 13 | 62 |
| Massachusetts | 4 | 33 | 10 | 7 | 54 |
| Michigan | 35 | 32 | 25 | 13 | 105 |
| Minnesota | 87 | 53 | 17 | 9 | 166 |
| Mississippi | 16 | 21 | 19 | 4 | 60 |
| Missouri | 41 | 35 | 21 | 12 | 109 |
| Montana | 17 | 7 | 7 | 2 | 33 |
| Nebraska | 45 | 10 | 13 | 5 | 73 |
| Nevada | 12 | 18 | 8 | 11 | 49 |
| New Hampshire | 13 | 19 | 11 | 5 | 48 |
| New Jersey | 2 | 35 | 8 | 12 | 57 |
| New Mexico | 17 | 10 | 14 | 4 | 45 |
| New York | 37 | 48 | 21 | 17 | 123 |
| North Carolina | 26 | 36 | 18 | 11 | 91 |
| North Dakota | 30 | 11 | 9 | 1 | 51 |
| Northern Marianas Islands | 0 | 0 | 1 | 1 | 2 |
| Ohio | 36 | 33 | 23 | 11 | 103 |
| Oklahoma | 37 | 17 | 18 | 10 | 82 |
| Oregon | 26 | 27 | 16 | 7 | 76 |
| Pennsylvania | 35 | 48 | 23 | 16 | 122 |
| Puerto Rico | 1 | 1 | 7 | 1 | 10 |
| Rhode Island | 1 | 16 | 6 | 7 | 30 |
| South Carolina | 25 | 25 | 16 | 7 | 73 |
| South Dakota | 44 | 12 | 7 | 2 | 65 |
| Tennessee | 26 | 30 | 25 | 7 | 88 |
| Texas | 63 | 64 | 42 | 26 | 195 |
| US Virgin Islands | 1 | 0 | 3 | 0 | 4 |
| Utah | 17 | 15 | 13 | 9 | 54 |
| Vermont | 7 | 8 | 5 | 2 | 22 |
| Virginia | 16 | 41 | 24 | 9 | 90 |
| Washington | 26 | 35 | 14 | 8 | 83 |
| West Virginia | 6 | 9 | 16 | 6 | 37 |
| Wisconsin | 92 | 30 | 28 | 12 | 162 |
| Wyoming | 12 | 7 | 14 | 2 | 35 |
| Unduplicated Total | 1,223 | 1,001 | 425 | 133 | 4,032 |

Source: Numbering Resource Utilization/Forecast forms filed with NeuStar as of April 22, 2002.
${ }^{1}$ Company numbers determined by counting operating company numbers (OCNs). Carriers typically obtain at least one OCN per state in which they do business. Thus, carriers with multiple OCNs are counted multiple times.
${ }^{2}$ Carriers occasionally misclassify the type of service that they provide. For instance, the CLEC operations of
ILECs are occasionally classified as ILEC operations.

Table 6
Telephone Number Utilization by Area Code as of December 31, 2001

| Area Code | State/Jurisdiction | Area Code Opened | Assigned | Intermediate | Reserved | Aging | Admin | Available | OCNs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 201 | New Jersey | Jan-47 | 44.7\% | 1.3\% | 1.9\% | 2.4\% | 0.5\% | 49.2\% | 43 |
| 202 | District of Columbia | Jan-47 | 56.0\% | 1.2\% | 7.8\% | 4.3\% | 0.7\% | 30.0\% | 42 |
| 203 | Connecticut | Jan-47 | 41.1\% | 7.5\% | 0.8\% | 2.5\% | 1.2\% | 46.8\% | 36 |
| 205 | Alabama | Jan-47 | 43.6\% | 5.3\% | 0.6\% | 3.6\% | 2.3\% | 44.6\% | 39 |
| 206 | Washington | Jan-47 | 58.2\% | 0.6\% | 0.7\% | 5.8\% | 1.6\% | 33.2\% | 38 |
| 207 | Maine | Jan-47 | 38.3\% | 0.3\% | 1.9\% | 1.4\% | 0.5\% | 57.5\% | 40 |
| 208 | Idaho | Jan-47 | 37.8\% | 0.3\% | 0.8\% | 2.2\% | 1.6\% | 57.3\% | 52 |
| 209 | California | Jan-58 | 31.5\% | 6.3\% | 0.4\% | 2.0\% | 1.4\% | 58.4\% | 43 |
| 210 | Texas | Nov-92 | 50.1\% | 5.0\% | 1.0\% | 4.1\% | 2.2\% | 37.7\% | 38 |
| 212 | New York | Jan-47 | 78.5\% | 0.3\% | 6.2\% | 4.2\% | 1.3\% | 9.6\% | 30 |
| 213 | California | Jan-47 | 32.6\% | 5.6\% | 1.0\% | 3.2\% | 2.1\% | 55.4\% | 49 |
| 214 | Texas | Jan-47 | 49.1\% | 2.0\% | 1.7\% | 4.0\% | 1.3\% | 41.8\% | 52 |
| 215 | Pennsylvania | Jan-47 | 55.5\% | 1.6\% | 2.6\% | 3.4\% | 0.8\% | 36.1\% | 36 |
| 216 | Ohio | Jan-47 | 40.4\% | 1.8\% | 2.7\% | 3.3\% | 1.4\% | 50.3\% | 37 |
| 217 | Illinois | Jan-47 | 25.6\% | 0.7\% | 4.4\% | 1.9\% | 1.9\% | 65.5\% | 47 |
| 218 | Minnesota | Jan-47 | 23.6\% | 0.3\% | 9.9\% | 1.2\% | 0.6\% | 64.4\% | 57 |
| 219 | Indiana | Jan-47 | 39.1\% | 1.8\% | 2.7\% | 2.5\% | 1.4\% | 52.5\% | 53 |
| 225 | Louisiana | Aug-98 | 41.8\% | 7.3\% | 0.4\% | 3.9\% | 1.4\% | 45.3\% | 32 |
| 228 | Mississippi | Sep-97 | 30.2\% | 5.1\% | 0.3\% | 2.5\% | 0.5\% | 61.4\% | 24 |
| 229 | Georgia | Aug-00 | 30.0\% | 9.0\% | 1.1\% | 1.9\% | 0.5\% | 57.5\% | 29 |
| 231 | Michigan | Jun-99 | 22.9\% | 0.6\% | 0.8\% | 1.9\% | 1.4\% | 72.4\% | 33 |
| 234 | Ohio | Oct-00 | 20.0\% | 0.0\% | 0.8\% | 0.0\% | 20.0\% | 59.1\% | 4 |
| 240 | Maryland | Jun-97 | 18.1\% | 0.6\% | 0.6\% | 1.4\% | 1.6\% | 77.6\% | 39 |
| 248 | Michigan | May-97 | 40.4\% | 1.0\% | 1.1\% | 3.0\% | 1.5\% | 53.0\% | 38 |
| 251 | Alabama | Jun-01 | 36.3\% | 10.3\% | 3.3\% | 2.6\% | 3.7\% | 43.7\% | 29 |
| 252 | North Carolina | Mar-98 | 37.6\% | 0.4\% | 2.3\% | 2.1\% | 0.5\% | 57.0\% | 27 |
| 253 | Washington | Apr-97 | 50.0\% | 0.4\% | 0.9\% | 4.1\% | 1.3\% | 43.3\% | 36 |
| 254 | Texas | May-97 | 30.0\% | 3.2\% | 0.4\% | 2.6\% | 1.9\% | 61.9\% | 44 |
| 256 | Alabama | Mar-98 | 37.4\% | 7.1\% | 0.2\% | 3.0\% | 1.5\% | 50.7\% | 33 |
| 262 | Wisconsin | Sep-99 | 25.7\% | 0.7\% | 2.1\% | 1.8\% | 1.4\% | 68.3\% | 41 |
| 267 | Pennsylvania | Jul-99 | 11.7\% | 0.4\% | 0.4\% | 0.9\% | 1.1\% | 85.5\% | 37 |
| 270 | Kentucky | Apr-99 | 25.0\% | 4.4\% | 0.6\% | 2.2\% | 0.8\% | 66.9\% | 44 |
| 276 | Virginia | Sep-01 | 29.5\% | 0.9\% | 1.1\% | 1.9\% | 2.3\% | 64.3\% | 17 |
| 281 | Texas | Nov-96 | 44.6\% | 4.6\% | 0.6\% | 3.6\% | 1.4\% | 45.2\% | 39 |
| 301 | Maryland | Jan-47 | 60.6\% | 1.3\% | 1.9\% | 3.6\% | 0.8\% | 31.8\% | 35 |
| 302 | Delaware | Jan-47 | 38.2\% | 0.7\% | 1.7\% | 2.1\% | 1.3\% | 56.1\% | 36 |
| 303 | Colorado | Jan-47 | 65.0\% | 0.2\% | 1.3\% | 5.1\% | 1.5\% | 26.9\% | 36 |
| 304 | West Virginia | Jan-47 | 33.0\% | 0.3\% | 0.9\% | 1.9\% | 0.9\% | 63.0\% | 37 |
| 305 | Florida | Jan-47 | 55.4\% | 7.3\% | 0.6\% | 5.2\% | 2.0\% | 29.5\% | 40 |
| 307 | Wyoming | Jan-47 | 27.0\% | 0.2\% | 0.3\% | 2.0\% | 1.8\% | 68.7\% | 34 |
| 308 | Nebraska | Jan-55 | 17.9\% | 0.6\% | 8.7\% | 1.2\% | 0.9\% | 70.7\% | 40 |
| 309 | Illinois | Jan-57 | 29.3\% | 9.1\% | 6.3\% | 2.3\% | 1.5\% | 51.4\% | 55 |
| 310 | California | Nov-91 | 51.8\% | 6.3\% | 0.6\% | 3.8\% | 1.3\% | 36.2\% | 48 |
| 312 | Illinois | Jan-47 | 40.4\% | 3.0\% | 4.5\% | 2.1\% | 1.3\% | 48.6\% | 46 |
| 313 | Michigan | Jan-47 | 39.1\% | 1.8\% | 4.1\% | 4.7\% | 2.3\% | 48.0\% | 36 |
| 314 | Missouri | Jan-47 | 48.6\% | 3.2\% | 2.5\% | 3.2\% | 1.3\% | 41.2\% | 33 |
| 315 | New York | Jan-47 | 36.7\% | 1.4\% | 2.6\% | 2.1\% | 0.9\% | 56.3\% | 39 |
| 316 | Kansas | Jan-47 | 33.3\% | 4.1\% | 3.2\% | 2.5\% | 2.1\% | 54.8\% | 27 |
| 317 | Indiana | Jan-47 | 39.6\% | 2.1\% | 2.0\% | 3.1\% | 1.8\% | 51.4\% | 48 |
| 318 | Louisiana | Jan-57 | 33.5\% | 7.6\% | 0.5\% | 2.8\% | 0.7\% | 54.8\% | 42 |
| 319 | Iowa | Jan-47 | 35.3\% | 1.8\% | 0.6\% | 5.7\% | 4.1\% | 52.6\% | 60 |
| 320 | Minnesota | Mar-96 | 24.4\% | 0.2\% | 10.4\% | 2.0\% | 0.6\% | 62.3\% | 57 |
| 321 | Florida | Nov-99 | 37.3\% | 4.1\% | 1.4\% | 2.9\% | 1.4\% | 53.0\% | 43 |
| 323 | California | Jun-98 | 36.5\% | 4.7\% | 0.6\% | 3.3\% | 1.2\% | 53.7\% | 45 |
| 330 | Ohio | Mar-96 | 37.3\% | 1.2\% | 2.0\% | 2.4\% | 1.3\% | 55.9\% | 38 |

Table 6
Telephone Number Utilization by Area Code as of December 31, 2001

| Area Code | State/Jurisdiction | Area Code Opened | Assigned | Intermediate | Reserved | Aging | Admin | Available | OCNs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 334 | Alabama | Jan-95 | 31.4\% | 6.2\% | 1.2\% | 2.3\% | 1.2\% | 57.7\% | 44 |
| 336 | North Carolina | Dec-97 | 42.2\% | 7.0\% | 1.3\% | 3.0\% | 0.8\% | 45.6\% | 45 |
| 337 | Louisiana | Oct-99 | 33.4\% | 9.5\% | 0.5\% | 3.9\% | 1.1\% | 51.6\% | 37 |
| 339 | Massachusetts | May-01 | 2.7\% | 0.9\% | 0.0\% | 0.1\% | 0.2\% | 96.0\% | 11 |
| 340 | US Virgin Islands | Jun-97 | 48.1\% | 3.2\% | 11.7\% | 10.9\% | 1.2\% | 24.9\% | 4 |
| 347 | New York | Oct-99 | 32.8\% | 0.9\% | 1.5\% | 1.2\% | 0.9\% | 62.7\% | 28 |
| 351 | Massachusetts | May-01 | Not shown to protect carrier confidentiality |  |  |  |  |  |  |
| 352 | Florida | Dec-95 | 42.2\% | 4.3\% | 0.6\% | 3.5\% | 0.9\% | 48.5\% | 33 |
| 360 | Washington | Jan-95 | 39.7\% | 0.3\% | 2.0\% | 3.0\% | 1.3\% | 53.7\% | 55 |
| 361 | Texas | Feb-99 | 30.7\% | 5.6\% | 0.4\% | 2.7\% | 1.8\% | 58.8\% | 31 |
| 386 | Florida | Feb-01 | 36.6\% | 6.7\% | 0.6\% | 2.6\% | 0.7\% | 52.8\% | 37 |
| 401 | Rhode Island | Jan-47 | 41.4\% | 1.0\% | 1.6\% | 1.9\% | 0.5\% | 53.6\% | 30 |
| 402 | Nebraska | Jan-47 | 35.2\% | 1.3\% | 2.6\% | 4.1\% | 1.0\% | 55.8\% | 49 |
| 404 | Georgia | Jan-47 | 56.8\% | 4.9\% | 1.3\% | 5.1\% | 1.4\% | 30.5\% | 41 |
| 405 | Oklahoma | Jan-47 | 38.9\% | 7.0\% | 1.0\% | 2.8\% | 1.2\% | 49.0\% | 40 |
| 406 | Montana | Jan-47 | 21.9\% | 0.5\% | 0.3\% | 1.3\% | 0.5\% | 75.6\% | 33 |
| 407 | Florida | Apr-88 | 48.2\% | 3.7\% | 2.3\% | 4.7\% | 0.8\% | 40.3\% | 41 |
| 408 | California | Jan-59 | 52.1\% | 5.2\% | 0.8\% | 3.7\% | 0.7\% | 37.6\% | 43 |
| 409 | Texas | Nov-82 | 32.5\% | 12.1\% | 0.4\% | 3.0\% | 1.3\% | 50.7\% | 35 |
| 410 | Maryland | Oct-91 | 64.8\% | 1.9\% | 2.3\% | 3.9\% | 1.1\% | 26.1\% | 29 |
| 412 | Pennsylvania | Jan-47 | 41.0\% | 1.0\% | 2.7\% | 2.6\% | 0.8\% | 52.0\% | 42 |
| 413 | Massachusetts | Jan-47 | 48.5\% | 0.5\% | 1.5\% | 1.7\% | 0.4\% | 47.4\% | 32 |
| 414 | Wisconsin | Jan-47 | 44.0\% | 3.4\% | 3.6\% | 3.9\% | 2.5\% | 42.6\% | 35 |
| 415 | California | Jan-47 | 44.7\% | 3.8\% | 1.1\% | 3.4\% | 1.1\% | 46.0\% | 43 |
| 417 | Missouri | Jan-50 | 28.5\% | 3.0\% | 1.2\% | 1.7\% | 0.7\% | 65.0\% | 49 |
| 419 | Ohio | Jan-47 | 33.8\% | 2.7\% | 0.8\% | 2.3\% | 1.3\% | 59.2\% | 54 |
| 423 | Tennessee | Sep-95 | 38.7\% | 5.5\% | 0.7\% | 3.4\% | 1.0\% | 50.7\% | 41 |
| 425 | Washington | Apr-97 | 47.2\% | 0.4\% | 1.9\% | 3.9\% | 1.4\% | 45.2\% | 38 |
| 434 | Virginia | Jun-01 | 41.8\% | 0.7\% | 1.4\% | 2.5\% | 1.7\% | 51.9\% | 20 |
| 435 | Utah | Sep-97 | 23.5\% | 0.5\% | 1.4\% | 1.1\% | 0.9\% | 72.6\% | 45 |
| 440 | Ohio | Aug-97 | 31.7\% | 1.4\% | 1.4\% | 1.9\% | 0.8\% | 62.7\% | 42 |
| 443 | Maryland | Jun-97 | 17.0\% | 0.5\% | 1.3\% | 1.3\% | 1.8\% | 78.1\% | 39 |
| 469 | Texas | Jul-99 | 19.9\% | 0.8\% | 1.1\% | 1.3\% | 2.3\% | 74.6\% | 35 |
| 478 | Georgia | Aug-00 | 37.8\% | 10.3\% | 0.8\% | 3.1\% | 0.7\% | 47.3\% | 31 |
| 480 | Arizona | Mar-99 | 65.2\% | 0.6\% | 2.0\% | 5.0\% | 0.8\% | 26.4\% | 35 |
| 484 | Pennsylvania | Jun-99 | 7.5\% | 0.5\% | 0.8\% | 0.4\% | 1.0\% | 89.9\% | 44 |
| 501 | Arkansas | Jan-47 | 34.9\% | 6.0\% | 1.2\% | 2.1\% | 0.9\% | 54.9\% | 40 |
| 502 | Kentucky | Jan-47 | 44.8\% | 5.0\% | 0.8\% | 3.9\% | 1.7\% | 43.7\% | 36 |
| 503 | Oregon | Jan-47 | 54.4\% | 0.3\% | 0.9\% | 5.1\% | 1.3\% | 38.0\% | 42 |
| 504 | Louisiana | Jan-47 | 46.1\% | 6.2\% | 1.5\% | 5.0\% | 2.1\% | 39.0\% | 37 |
| 505 | New Mexico | Jan-47 | 43.8\% | 0.6\% | 1.3\% | 3.1\% | 1.1\% | 50.1\% | 45 |
| 507 | Minnesota | Jan-54 | 24.1\% | 0.3\% | 10.4\% | 1.8\% | 0.7\% | 62.7\% | 70 |
| 508 | Massachusetts | Jul-88 | 51.8\% | 0.7\% | 1.6\% | 2.3\% | 0.8\% | 42.8\% | 41 |
| 509 | Washington | Jan-57 | 40.6\% | 0.3\% | 0.8\% | 2.7\% | 1.2\% | 54.4\% | 45 |
| 510 | California | Sep-91 | 39.4\% | 6.1\% | 0.8\% | 3.0\% | 1.4\% | 49.3\% | 40 |
| 512 | Texas | Jan-47 | 47.6\% | 7.8\% | 1.1\% | 3.6\% | 1.6\% | 38.3\% | 43 |
| 513 | Ohio | Jan-47 | 48.8\% | 0.2\% | 1.6\% | 3.0\% | 1.0\% | 45.4\% | 34 |
| 515 | Iowa | Jan-47 | 43.5\% | 1.1\% | 1.2\% | 4.9\% | 2.2\% | 47.1\% | 46 |
| 516 | New York | Jan-51 | 55.4\% | 1.1\% | 2.3\% | 3.6\% | 0.9\% | 36.8\% | 45 |
| 517 | Michigan | Jan-47 | 29.9\% | 0.6\% | 2.1\% | 2.3\% | 1.3\% | 63.8\% | 46 |
| 518 | New York | Jan-47 | 43.7\% | 0.5\% | 3.0\% | 2.3\% | 0.9\% | 49.6\% | 43 |
| 520 | Arizona | Mar-95 | 42.4\% | 1.8\% | 1.6\% | 3.5\% | 1.1\% | 49.5\% | 48 |
| 530 | California | Nov-97 | 29.6\% | 4.4\% | 3.7\% | 1.6\% | 1.3\% | 59.4\% | 49 |
| 540 | Virginia | Jul-95 | 42.1\% | 0.5\% | 2.1\% | 2.7\% | 1.2\% | 51.3\% | 50 |
| 541 | Oregon | Nov-95 | 36.4\% | 0.2\% | 1.1\% | 2.7\% | 1.2\% | 58.4\% | 56 |

Table 6
Telephone Number Utilization by Area Code as of December 31, 2001


Table 6
Telephone Number Utilization by Area Code as of December 31, 2001

| Area Code | State/Jurisdiction | Area Code Opened | Assigned | Intermediate | Reserved | Aging | Admin | Available | OCNs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 716 | New York | Jan-47 | 52.3\% | 1.0\% | 3.5\% | 4.5\% | 1.5\% | 37.1\% | 40 |
| 717 | Pennsylvania | Jan-47 | 44.2\% | 1.2\% | 1.3\% | 2.2\% | 0.7\% | 50.5\% | 39 |
| 718 | New York | Sep-84 | 65.4\% | 0.1\% | 4.7\% | 6.1\% | 0.8\% | 22.9\% | 35 |
| 719 | Colorado | Mar-88 | 43.4\% | 0.7\% | 0.9\% | 4.5\% | 1.2\% | 49.3\% | 40 |
| 720 | Colorado | Jun-98 | 40.1\% | 0.7\% | 2.7\% | 4.7\% | 2.1\% | 49.7\% | 25 |
| 724 | Pennsylvania | Feb-98 | 27.6\% | 0.6\% | 1.0\% | 1.7\% | 0.6\% | 68.6\% | 47 |
| 727 | Florida | Jul-98 | 47.7\% | 1.5\% | 1.2\% | 5.4\% | 2.4\% | 41.9\% | 38 |
| 731 | Tennessee | Feb-01 | 24.9\% | 5.7\% | 0.5\% | 2.2\% | 0.5\% | 66.2\% | 30 |
| 732 | New Jersey | Jun-97 | 47.7\% | 1.6\% | 2.1\% | 3.7\% | 0.9\% | 44.0\% | 36 |
| 734 | Michigan | Dec-97 | 31.5\% | 0.5\% | 1.1\% | 2.2\% | 1.1\% | 63.5\% | 39 |
| 740 | Ohio | Dec-97 | 30.8\% | 1.1\% | 0.8\% | 2.0\% | 1.2\% | 64.1\% | 38 |
| 754 | Florida | Aug-01 | Not shown to protect carrier confidentiality |  |  |  |  |  |  |
| 757 | Virginia | Jul-96 | 53.0\% | 1.2\% | 1.2\% | 3.1\% | 1.3\% | 40.3\% | 34 |
| 760 | California | Mar-97 | 35.2\% | 4.2\% | 0.6\% | 2.5\% | 1.8\% | 55.6\% | 52 |
| 763 | Minnesota | Feb-00 | 44.5\% | 0.5\% | 1.1\% | 3.6\% | 0.8\% | 49.5\% | 44 |
| 765 | Indiana | Feb-97 | 25.3\% | 1.1\% | 0.8\% | 1.9\% | 1.4\% | 69.4\% | 53 |
| 770 | Georgia | Aug-95 | 57.8\% | 7.1\% | 0.8\% | 4.9\% | 0.6\% | 28.8\% | 39 |
| 773 | Illinois | Oct-96 | 46.4\% | 3.6\% | 1.5\% | 4.3\% | 1.2\% | 42.9\% | 42 |
| 774 | Massachusetts | May-01 | 4.1\% | 0.4\% | 0.4\% | 0.3\% | 0.6\% | 94.2\% | 24 |
| 775 | Nevada | Dec-98 | 33.4\% | 4.5\% | 0.6\% | 2.1\% | 1.9\% | 57.6\% | 34 |
| 781 | Massachusetts | Sep-97 | 38.2\% | 0.8\% | 1.0\% | 2.1\% | 0.5\% | 57.4\% | 40 |
| 785 | Kansas | Jul-97 | 23.4\% | 5.8\% | 1.5\% | 1.2\% | 1.2\% | 66.9\% | 43 |
| 786 | Florida | Mar-98 | 30.9\% | 1.6\% | 2.9\% | 3.1\% | 1.5\% | 60.0\% | 35 |
| 787 | Puerto Rico | Mar-96 | 56.6\% | 1.4\% | 0.6\% | 2.2\% | 0.2\% | 39.1\% | 10 |
| 801 | Utah | Jan-47 | 55.1\% | 0.4\% | 1.2\% | 3.8\% | 1.4\% | 38.1\% | 33 |
| 802 | Vermont | Jan-47 | 19.2\% | 0.1\% | 0.7\% | 0.5\% | 3.3\% | 76.3\% | 22 |
| 803 | South Carolina | Jan-47 | 42.1\% | 7.6\% | 2.2\% | 2.5\% | 1.5\% | 44.2\% | 56 |
| 804 | Virginia | Jun-73 | 49.0\% | 1.2\% | 2.1\% | 3.3\% | 1.6\% | 42.9\% | 37 |
| 805 | California | Jan-57 | 38.9\% | 5.3\% | 0.6\% | 2.3\% | 1.6\% | 51.3\% | 44 |
| 806 | Texas | Jan-57 | 23.9\% | 4.8\% | 0.5\% | 2.1\% | 1.4\% | 67.3\% | 42 |
| 808 | Hawaii | Jan-57 | 48.2\% | 1.7\% | 0.2\% | 3.8\% | 1.3\% | 44.8\% | 14 |
| 810 | Michigan | Dec-93 | 27.0\% | 1.4\% | 4.6\% | 3.4\% | 1.3\% | 62.3\% | 37 |
| 812 | Indiana | Jan-47 | 29.1\% | 0.9\% | 0.6\% | 2.3\% | 1.3\% | 65.8\% | 52 |
| 813 | Florida | Jan-53 | 51.5\% | 1.6\% | 1.1\% | 4.3\% | 2.8\% | 38.7\% | 43 |
| 814 | Pennsylvania | Jan-47 | 29.9\% | 0.7\% | 0.5\% | 1.5\% | 1.2\% | 66.2\% | 37 |
| 815 | Illinois | Jan-47 | 28.7\% | 2.1\% | 2.6\% | 2.2\% | 1.4\% | 63.0\% | 68 |
| 816 | Missouri | Jan-47 | 39.1\% | 2.9\% | 1.2\% | 3.0\% | 1.2\% | 52.7\% | 47 |
| 817 | Texas | Jan-53 | 39.8\% | 2.4\% | 1.1\% | 3.5\% | 0.9\% | 52.2\% | 48 |
| 818 | California | Jan-84 | 46.2\% | 6.1\% | 0.9\% | 3.3\% | 1.5\% | 42.0\% | 49 |
| 828 | North Carolina | Mar-98 | 38.3\% | 5.7\% | 1.1\% | 2.6\% | 1.1\% | 51.2\% | 38 |
| 830 | Texas | Jul-97 | 21.4\% | 2.0\% | 0.3\% | 2.3\% | 1.0\% | 73.0\% | 43 |
| 831 | California | Jul-98 | 28.6\% | 6.8\% | 0.9\% | 1.9\% | 1.9\% | 59.8\% | 37 |
| 832 | Texas | Jan-99 | 27.9\% | 0.8\% | 0.4\% | 2.5\% | 5.1\% | 63.4\% | 34 |
| 843 | South Carolina | Mar-98 | 42.0\% | 5.4\% | 0.4\% | 3.0\% | 1.8\% | 47.5\% | 43 |
| 845 | New York | Jun-00 | 47.8\% | 0.9\% | 2.3\% | 3.1\% | 0.9\% | 45.0\% | 43 |
| 847 | Illinois | Jan-96 | 49.1\% | 1.8\% | 2.5\% | 2.9\% | 1.3\% | 42.4\% | 44 |
| 848 | New Jersey | Dec-01 | 0.0\% | 0.0\% | 0.1\% | 0.0\% | 7.5\% | 92.4\% | 7 |
| 850 | Florida | Jun-97 | 39.7\% | 3.9\% | 2.5\% | 3.0\% | 0.7\% | 50.2\% | 44 |
| 856 | New Jersey | Jun-99 | 33.5\% | 0.9\% | 1.1\% | 2.2\% | 0.7\% | 61.6\% | 35 |
| 857 | Massachusetts | May-01 | 3.0\% | 0.4\% | 0.2\% | 0.2\% | 1.9\% | 94.3\% | 23 |
| 858 | California | Jun-99 | 42.3\% | 3.8\% | 0.8\% | 2.4\% | 1.6\% | 49.1\% | 37 |
| 859 | Kentucky | Apr-00 | 37.3\% | 1.3\% | 1.4\% | 2.6\% | 1.4\% | 56.0\% | 45 |
| 860 | Connecticut | Aug-95 | 36.3\% | 4.9\% | 0.9\% | 1.9\% | 1.2\% | 54.9\% | 32 |
| 862 | New Jersey | Dec-01 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 8.4\% | 91.6\% | 8 |
| 863 | Florida | Sep-99 | 34.1\% | 2.4\% | 0.9\% | 3.4\% | 1.9\% | 57.3\% | 35 |

Table 6
Telephone Number Utilization by Area Code as of December 31, 2001

| Area Code | State/Jurisdiction | Area Code Opened | Assigned | Intermediate | Reserved | Aging | Admin | Available | OCNs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 864 | South Carolina | Dec-95 | 39.6\% | 6.3\% | 1.3\% | 3.5\% | 1.4\% | 47.9\% | 32 |
| 865 | Tennessee | Nov-99 | 46.9\% | 5.1\% | 0.3\% | 4.1\% | 0.8\% | 42.7\% | 30 |
| 870 | Arkansas | Apr-97 | 21.2\% | 6.0\% | 1.5\% | 1.4\% | 0.6\% | 69.3\% | 37 |
| 878 | Pennsylvania | Aug-01 | Not shown to protect carrier confidentiality |  |  |  |  |  | 1 |
| 901 | Tennessee | Jan-47 | 53.1\% | 5.4\% | 0.9\% | 5.0\% | 0.7\% | 34.8\% | 32 |
| 903 | Texas | Nov-90 | 28.7\% | 5.0\% | 1.1\% | 2.4\% | 1.1\% | 61.7\% | 52 |
| 904 | Florida | Jan-65 | 49.2\% | 6.3\% | 1.1\% | 4.2\% | 1.2\% | 37.9\% | 43 |
| 906 | Michigan | Jan-61 | 14.1\% | 0.5\% | 0.2\% | 0.6\% | 1.0\% | 83.6\% | 21 |
| 907 | Alaska | Jan-57 | 21.7\% | 0.3\% | 1.1\% | 1.4\% | 0.5\% | 75.0\% | 33 |
| 908 | New Jersey | Nov-90 | 32.6\% | 0.9\% | 1.1\% | 1.7\% | 0.6\% | 63.1\% | 44 |
| 909 | California | Nov-92 | 54.9\% | 4.9\% | 0.6\% | 3.1\% | 1.4\% | 35.1\% | 44 |
| 910 | North Carolina | Nov-93 | 36.6\% | 3.7\% | 4.2\% | 3.1\% | 0.8\% | 51.5\% | 40 |
| 912 | Georgia | Jan-54 | 36.6\% | 6.9\% | 3.8\% | 2.9\% | 1.1\% | 48.7\% | 46 |
| 913 | Kansas | Jan-47 | 41.4\% | 2.8\% | 1.6\% | 2.8\% | 1.4\% | 50.0\% | 37 |
| 914 | New York | Jan-47 | 47.5\% | 1.4\% | 2.0\% | 2.2\% | 0.8\% | 46.1\% | 51 |
| 915 | Texas | Jan-47 | 34.9\% | 3.9\% | 1.1\% | 3.0\% | 1.6\% | 55.4\% | 57 |
| 916 | California | Jan-47 | 42.1\% | 4.1\% | 1.8\% | 3.0\% | 1.4\% | 47.6\% | 40 |
| 917 | New York | Jan-92 | 60.2\% | 4.2\% | 1.0\% | 4.0\% | 0.4\% | 30.3\% | 32 |
| 918 | Oklahoma | Jan-53 | 33.3\% | 5.6\% | 0.7\% | 2.4\% | 1.3\% | 56.7\% | 53 |
| 919 | North Carolina | Jan-54 | 47.3\% | 4.2\% | 0.6\% | 3.5\% | 1.0\% | 43.4\% | 45 |
| 920 | Wisconsin | Jul-97 | 27.5\% | 0.8\% | 2.4\% | 1.6\% | 1.4\% | 66.3\% | 57 |
| 925 | California | Mar-98 | 32.2\% | 5.7\% | 0.8\% | 1.9\% | 1.5\% | 57.9\% | 38 |
| 928 | Arizona | Jun-01 | 35.8\% | 1.0\% | 4.4\% | 2.0\% | 0.5\% | 56.3\% | 38 |
| 931 | Tennessee | Sep-97 | 27.3\% | 5.4\% | 0.1\% | 3.0\% | 0.7\% | 63.5\% | 42 |
| 936 | Texas | Feb-00 | 28.2\% | 8.0\% | 0.2\% | 1.9\% | 1.2\% | 60.5\% | 30 |
| 937 | Ohio | Sep-96 | 35.7\% | 1.1\% | 1.5\% | 2.6\% | 1.3\% | 57.9\% | 35 |
| 939 | Puerto Rico | Sep-01 | Not shown to protect carrier confidentiality |  |  |  |  |  | 3 |
| 940 | Texas | May-97 | 25.1\% | 4.3\% | 0.9\% | 2.3\% | 1.8\% | 65.7\% | 51 |
| 941 | Florida | May-95 | 42.6\% | 2.4\% | 1.4\% | 4.2\% | 1.2\% | 48.2\% | 41 |
| 949 | California | Apr-98 | 39.1\% | 3.8\% | 0.7\% | 3.0\% | 1.8\% | 51.6\% | 46 |
| 952 | Minnesota | Feb-00 | 48.7\% | 0.7\% | 2.8\% | 3.2\% | 1.2\% | 43.3\% | 39 |
| 954 | Florida | Sep-95 | 49.6\% | 9.0\% | 1.8\% | 4.4\% | 1.7\% | 33.4\% | 44 |
| 956 | Texas | Jul-97 | 34.5\% | 6.1\% | 0.3\% | 3.6\% | 2.0\% | 53.6\% | 28 |
| 970 | Colorado | Apr-95 | 38.6\% | 0.3\% | 1.8\% | 3.1\% | 1.2\% | 55.0\% | 44 |
| 971 | Oregon | Oct-00 | 11.4\% | 0.2\% | 0.4\% | 1.3\% | 1.2\% | 85.3\% | 24 |
| 972 | Texas | Sep-96 | 50.6\% | 2.5\% | 1.5\% | 3.8\% | 1.7\% | 40.0\% | 44 |
| 973 | New Jersey | Jun-97 | 51.1\% | 1.4\% | 2.3\% | 2.8\% | 0.7\% | 41.7\% | 40 |
| 978 | Massachusetts | Sep-97 | 38.2\% | 0.7\% | 1.6\% | 1.5\% | 0.6\% | 57.5\% | 40 |
| 979 | Texas | Feb-00 | 25.1\% | 5.7\% | 0.4\% | 2.3\% | 1.1\% | 65.3\% | 42 |
| 980 | North Carolina | Apr-01 | 10.3\% | 3.9\% | 0.1\% | 0.8\% | 0.0\% | 84.8\% | 8 |
| 985 | Louisiana | Feb-01 | 27.5\% | 8.5\% | 1.5\% | 6.1\% | 1.2\% | 55.2\% | 28 |
| 989 | Michigan | Apr-01 | 25.3\% | 0.4\% | 1.6\% | 1.7\% | 1.4\% | 69.6\% | 37 |

Source: Numbering Resource Utilization/Forecast forms filed with NeuStar as of April 22, 2002.

Table 7

## Assigned, Aging and Available Telephone Numbers by Area Code (in thousands except OCNs)

| Area Code | Wireline (ILECs and CLECs) |  |  |  | Wireless (Cellular/PCS) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Assigned | Aging | Available | OCNs | Assigned | Aging | Available | OCNs |
| 201 | 2,153 | 105 | 2,612 | 27 | 933 | 57 | 509 | 5 |
| 202 | 2,381 | 174 | 981 | 27 | 463 | 40 | 295 | 6 |
| 203 | 2,041 | 105 | 2,532 | 21 | 822 | 63 | 475 | 7 |
| 205 | 1,494 | 100 | 1,469 | 20 | 685 | 81 | 545 | 13 |
| 206 | 2,000 | 194 | 1,019 | 26 | 827 | 80 | 356 | 7 |
| 207 | 1,398 | 54 | 2,109 | 30 | 436 | 14 | 673 | 8 |
| 208 | 1,632 | 78 | 2,156 | 33 | 488 | 46 | 1,061 | 18 |
| 209 | 1,142 | 54 | 2,019 | 19 | 525 | 49 | 629 | 13 |
| 210 | 1,579 | 117 | 1,240 | 21 | 694 | 62 | 250 | 7 |
| 212 | 5,969 | 320 | 726 | 28 | 0 | 0 | 0 | 0 |
| 213 | 807 | 74 | 1,352 | 30 | 438 | 53 | 402 | 6 |
| 214 | 1,885 | 142 | 1,884 | 36 | 1,189 | 105 | 369 | 7 |
| 215 | 3,326 | 208 | 2,027 | 21 | 851 | 41 | 266 | 6 |
| 216 | 1,133 | 65 | 1,495 | 21 | 625 | 66 | 535 | 8 |
| 217 | 1,009 | 87 | 2,920 | 27 | 436 | 20 | 707 | 17 |
| 218 | 636 | 31 | 1,942 | 45 | 296 | 17 | 582 | 9 |
| 219 | 1,925 | 106 | 2,469 | 24 | 800 | 63 | 1,009 | 15 |
| 225 | 839 | 47 | 750 | 15 | 337 | 65 | 401 | 11 |
| 228 | 349 | 22 | 692 | 11 | 175 | 22 | 265 | 10 |
| 229 | 505 | 36 | 983 | 16 | 256 | 12 | 412 | 9 |
| 231 | 572 | 42 | 1,760 | 19 | 203 | 23 | 357 | 12 |
| 234 | 10 | 0 | 30 | 4 | 0 | 0 | 0 | 0 |
| 240 | 312 | 13 | 2,199 | 25 | 327 | 35 | 493 | 10 |
| 248 | 1,827 | 90 | 2,706 | 25 | 745 | 98 | 453 | 7 |
| 251 | 550 | 38 | 679 | 16 | 238 | 20 | 243 | 10 |
| 252 | 1,110 | 53 | 1,536 | 12 | 406 | 32 | 644 | 9 |
| 253 | 1,343 | 94 | 1,210 | 25 | 412 | 48 | 212 | 7 |
| 254 | 638 | 61 | 1,461 | 23 | 291 | 23 | 375 | 13 |
| 256 | 1,178 | 71 | 1,409 | 17 | 568 | 73 | 800 | 12 |
| 262 | 982 | 63 | 2,105 | 24 | 171 | 18 | 463 | 10 |
| 267 | 186 | 5 | 3,904 | 30 | 402 | 42 | 361 | 6 |
| 270 | 999 | 60 | 2,885 | 22 | 375 | 61 | 752 | 14 |
| 276 | 145 | 9 | 250 | 6 | 62 | 4 | 202 | 11 |
| 281 | 2,232 | 193 | 2,565 | 25 | 816 | 50 | 151 | 6 |
| 301 | 3,373 | 174 | 1,646 | 16 | 933 | 72 | 236 | 10 |
| 302 | 1,272 | 65 | 2,061 | 20 | 388 | 25 | 259 | 7 |
| 303 | 3,859 | 255 | 1,593 | 21 | 926 | 87 | 187 | 9 |
| 304 | 1,421 | 80 | 2,985 | 15 | 557 | 37 | 815 | 16 |
| 305 | 2,728 | 234 | 906 | 21 | 959 | 112 | 305 | 6 |
| 307 | 547 | 39 | 1,068 | 19 | 223 | 17 | 890 | 14 |
| 308 | 309 | 19 | 1,440 | 31 | 144 | 10 | 348 | 7 |
| 309 | 973 | 81 | 1,842 | 36 | 359 | 25 | 391 | 15 |
| 310 | 2,724 | 198 | 2,000 | 29 | 1,088 | 80 | 180 | 5 |
| 312 | 2,135 | 81 | 1,499 | 27 | 468 | 39 | 946 | 8 |
| 313 | 1,430 | 83 | 1,575 | 20 | 843 | 173 | 857 | 7 |
| 314 | 1,751 | 96 | 1,653 | 19 | 966 | 76 | 494 | 7 |
| 315 | 1,265 | 79 | 2,024 | 26 | 416 | 17 | 452 | 7 |
| 316 | 526 | 28 | 1,029 | 10 | 245 | 24 | 190 | 10 |
| 317 | 1,681 | 101 | 2,463 | 30 | 751 | 89 | 495 | 7 |
| 318 | 954 | 65 | 1,563 | 23 | 432 | 53 | 635 | 13 |
| 319 | 817 | 156 | 1,125 | 46 | 289 | 21 | 491 | 10 |
| 320 | 462 | 34 | 1,246 | 43 | 139 | 15 | 274 | 11 |
| 321 | 655 | 31 | 1,169 | 27 | 333 | 41 | 255 | 7 |
| 323 | 1,514 | 119 | 2,762 | 27 | 558 | 71 | 160 | 6 |
| 330 | 1,647 | 85 | 2,389 | 19 | 804 | 67 | 895 | 12 |

Table 7

## Assigned, Aging and Available Telephone Numbers by Area Code (in thousands except OCNs)

| Area Code | Wireline (ILECs and CLECs) |  |  |  | Wireless (Cellular/PCS) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Assigned | Aging | Available | OCNs | Assigned | Aging | Available | OCNs |
| 334 | 880 | 60 | 1,444 | 27 | 504 | 43 | 854 | 13 |
| 336 | 1,786 | 89 | 1,834 | 30 | 729 | 93 | 733 | 11 |
| 337 | 709 | 52 | 1,178 | 19 | 349 | 81 | 415 | 13 |
| 339 | 10 | 0 | 431 | 8 | Not shown to prod | ct carrie | identiality | 3 |
| 340 | Not shown to protect carrier confidentiality |  |  | 1 | Not shown to prow | ct carrie | identiality | 3 |
| 347 | 262 | 1 | 819 | 22 | 407 | 23 | 456 | 6 |
| 351 | Not shown to protect carrier confidentiality |  |  | 1 | 0 | 0 | 0 | 0 |
| 352 | 1,093 | 72 | 990 | 15 | 423 | 53 | 516 | 11 |
| 360 | 2,016 | 127 | 2,664 | 42 | 600 | 67 | 803 | 8 |
| 361 | 625 | 53 | 953 | 17 | 277 | 27 | 591 | 9 |
| 386 | 639 | 42 | 751 | 18 | 252 | 21 | 386 | 12 |
| 401 | 1,531 | 58 | 2,200 | 17 | 447 | 30 | 208 | 6 |
| 402 | 1,700 | 205 | 3,021 | 34 | 633 | 66 | 610 | 11 |
| 404 | 2,246 | 147 | 713 | 25 | 1,097 | 141 | 596 | 8 |
| 405 | 1,211 | 73 | 1,766 | 21 | 558 | 46 | 353 | 12 |
| 406 | 809 | 38 | 2,603 | 24 | 290 | 28 | 1,211 | 7 |
| 407 | 1,820 | 172 | 1,543 | 24 | 722 | 73 | 276 | 7 |
| 408 | 2,493 | 157 | 1,637 | 24 | 855 | 71 | 399 | 8 |
| 409 | 594 | 49 | 876 | 18 | 249 | 29 | 333 | 11 |
| 410 | 3,756 | 206 | 1,174 | 11 | 877 | 57 | 164 | 7 |
| 412 | 1,644 | 110 | 2,247 | 22 | 736 | 35 | 653 | 10 |
| 413 | 1,629 | 47 | 1,587 | 20 | 258 | 17 | 179 | 8 |
| 414 | 1,098 | 64 | 913 | 14 | 689 | 95 | 438 | 10 |
| 415 | 2,183 | 153 | 2,227 | 25 | 697 | 62 | 340 | 6 |
| 417 | 842 | 55 | 2,052 | 32 | 352 | 15 | 631 | 10 |
| 419 | 1,605 | 84 | 2,636 | 37 | 657 | 65 | 1,068 | 12 |
| 423 | 1,221 | 67 | 1,332 | 20 | 540 | 89 | 793 | 17 |
| 425 | 1,774 | 140 | 1,717 | 27 | 416 | 41 | 320 | 7 |
| 434 | 336 | 20 | 373 | 10 | 245 | 14 | 348 | 9 |
| 435 | 683 | 21 | 1,611 | 28 | 164 | 20 | 921 | 13 |
| 440 | 1,071 | 53 | 2,482 | 24 | 416 | 31 | 349 | 10 |
| 443 | 418 | 14 | 3,569 | 26 | 521 | 60 | 670 | 8 |
| 469 | 251 | 13 | 1,402 | 27 | 180 | 16 | 199 | 6 |
| 478 | 509 | 35 | 587 | 15 | 260 | 27 | 290 | 10 |
| 480 | 1,867 | 133 | 725 | 22 | 340 | 35 | 145 | 8 |
| 484 | 253 | 9 | 4,542 | 33 | 159 | 11 | 359 | 9 |
| 501 | 1,468 | 79 | 2,409 | 26 | 726 | 52 | 904 | 8 |
| 502 | 1,161 | 74 | 1,101 | 19 | 557 | 77 | 420 | 10 |
| 503 | 2,796 | 270 | 2,086 | 31 | 917 | 74 | 378 | 7 |
| 504 | 1,248 | 78 | 772 | 18 | 582 | 128 | 489 | 11 |
| 505 | 1,910 | 101 | 2,109 | 27 | 696 | 84 | 738 | 14 |
| 507 | 728 | 34 | 2,040 | 55 | 277 | 43 | 574 | 12 |
| 508 | 2,765 | 122 | 2,777 | 28 | 975 | 37 | 249 | 6 |
| 509 | 1,599 | 90 | 1,980 | 27 | 492 | 46 | 774 | 13 |
| 510 | 1,655 | 97 | 2,162 | 22 | 784 | 82 | 500 | 7 |
| 512 | 2,015 | 139 | 1,421 | 26 | 704 | 52 | 474 | 10 |
| 513 | 1,934 | 85 | 1,562 | 21 | 796 | 78 | 725 | 8 |
| 515 | 943 | 119 | 1,037 | 30 | 339 | 27 | 314 | 11 |
| 516 | 1,677 | 109 | 1,088 | 30 | 1,118 | 54 | 398 | 7 |
| 517 | 830 | 47 | 1,724 | 30 | 424 | 48 | 725 | 13 |
| 518 | 1,411 | 79 | 1,785 | 28 | 424 | 16 | 220 | 8 |
| 520 | 1,368 | 72 | 1,300 | 26 | 498 | 82 | 746 | 14 |
| 530 | 1,288 | 52 | 2,540 | 25 | 415 | 39 | 537 | 13 |
| 540 | 1,643 | 89 | 1,559 | 26 | 627 | 55 | 1,174 | 20 |
| 541 | 1,442 | 108 | 2,163 | 33 | 538 | 35 | 993 | 16 |

Table 7

## Assigned, Aging and Available Telephone Numbers by Area Code (in thousands except OCNs)

| Area Code | Wireline (ILECs and CLECs) |  |  |  | Wireless (Cellular/PCS) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Assigned | Aging | Available | OCNs | Assigned | Aging | Available | OCNs |
| 551 | Not shown to protect carrier confidentiality |  |  | 2 | 0 | 0 | 99 | 4 |
| 559 | 1,047 | 62 | 2,215 | 19 | 457 | 47 | 422 | 8 |
| 561 | 1,967 | 132 | 1,198 | 25 | 791 | 89 | 604 | 9 |
| 562 | 1,346 | 89 | 2,028 | 29 | 562 | 63 | 299 | 6 |
| 563 | 426 | 73 | 736 | 38 | 191 | 17 | 268 | 9 |
| 570 | 1,405 | 125 | 2,554 | 30 | 446 | 23 | 579 | 9 |
| 571 | 45 | 4 | 425 | 17 | 135 | 11 | 171 | 6 |
| 573 | 923 | 63 | 2,136 | 23 | 354 | 28 | 867 | 12 |
| 580 | 533 | 29 | 2,600 | 24 | 239 | 16 | 515 | 11 |
| 585 | 65 | 3 | 338 | 7 | 10 | 0 | 73 | 5 |
| 586 | 672 | 33 | 777 | 14 | 96 | 6 | 483 | 4 |
| 601 | 1,142 | 76 | 2,225 | 22 | 572 | 74 | 946 | 15 |
| 602 | 2,338 | 140 | 767 | 23 | 1,111 | 122 | 633 | 8 |
| 603 | 1,930 | 63 | 2,766 | 32 | 512 | 23 | 659 | 11 |
| 605 | 727 | 52 | 2,910 | 56 | 281 | 26 | 898 | 7 |
| 606 | 699 | 51 | 1,742 | 14 | 221 | 31 | 442 | 12 |
| 607 | 709 | 35 | 1,161 | 18 | 217 | 8 | 307 | 10 |
| 608 | 1,006 | 64 | 1,978 | 45 | 424 | 25 | 532 | 11 |
| 609 | 1,533 | 95 | 1,817 | 19 | 885 | 58 | 561 | 6 |
| 610 | 2,886 | 161 | 2,264 | 31 | 960 | 43 | 162 | 8 |
| 612 | 1,148 | 111 | 783 | 26 | 1,053 | 80 | 382 | 9 |
| 614 | 1,616 | 79 | 2,154 | 20 | 711 | 68 | 411 | 9 |
| 615 | 1,625 | 116 | 1,921 | 26 | 696 | 103 | 356 | 11 |
| 616 | 1,636 | 101 | 2,373 | 23 | 721 | 83 | 930 | 15 |
| 617 | 3,135 | 168 | 2,222 | 26 | 1,034 | 53 | 222 | 7 |
| 618 | 982 | 98 | 3,692 | 27 | 441 | 41 | 867 | 19 |
| 619 | 1,469 | 97 | 1,487 | 25 | 842 | 68 | 425 | 6 |
| 620 | 491 | 31 | 2,566 | 27 | 188 | 9 | 502 | 12 |
| 623 | 619 | 41 | 485 | 19 | 157 | 21 | 144 | 8 |
| 626 | 1,270 | 70 | 2,026 | 27 | 589 | 63 | 280 | 6 |
| 630 | 1,983 | 122 | 2,053 | 22 | 760 | 55 | 1,071 | 8 |
| 631 | 1,642 | 104 | 2,409 | 30 | 301 | 13 | 163 | 6 |
| 636 | 618 | 43 | 1,626 | 20 | 81 | 6 | 229 | 6 |
| 641 | 227 | 34 | 1,216 | 41 | 159 | 16 | 639 | 11 |
| 646 | 831 | 36 | 574 | 30 | 682 | 54 | 360 | 6 |
| 650 | 1,631 | 93 | 2,602 | 24 | 452 | 38 | 250 | 7 |
| 651 | 1,511 | 70 | 959 | 30 | 343 | 30 | 156 | 9 |
| 660 | 333 | 27 | 1,944 | 20 | 132 | 8 | 565 | 12 |
| 661 | 936 | 52 | 1,835 | 22 | 386 | 34 | 270 | 8 |
| 662 | 745 | 50 | 2,094 | 23 | 297 | 37 | 784 | 12 |
| 670 | 0 | 0 | 0 | 0 | Not shown to pr | ct carrie | identiality | 1 |
| 671 | 0 | 0 | 0 | 0 | Not shown to pror | ct carrie | fidentiality | 3 |
| 678 | 973 | 79 | 3,709 | 36 | 764 | 93 | 246 | 11 |
| 682 | 47 | 0 | 392 | 12 | Not shown to pr | ct carrie | identiality | 3 |
| 701 | 651 | 50 | 2,819 | 41 | 257 | 26 | 880 | 9 |
| 702 | 1,840 | 126 | 1,111 | 15 | 686 | 54 | 185 | 5 |
| 703 | 3,424 | 247 | 1,911 | 29 | 973 | 51 | 141 | 6 |
| 704 | 2,186 | 131 | 1,950 | 28 | 896 | 82 | 768 | 11 |
| 706 | 1,587 | 95 | 1,518 | 31 | 704 | 73 | 683 | 21 |
| 707 | 1,363 | 61 | 2,851 | 24 | 509 | 37 | 491 | 9 |
| 708 | 1,297 | 93 | 2,003 | 23 | 731 | 57 | 697 | 8 |
| 712 | 490 | 44 | 1,779 | 65 | 226 | 16 | 611 | 12 |
| 713 | 2,828 | 202 | 1,678 | 22 | 901 | 48 | 137 | 6 |
| 714 | 2,027 | 137 | 2,054 | 29 | 1,053 | 90 | 264 | 6 |
| 715 | 913 | 50 | 2,677 | 59 | 337 | 27 | 986 | 18 |

Table 7

## Assigned, Aging and Available Telephone Numbers by Area Code (in thousands except OCNs)

| Area Code | Wireline (ILECs and CLECs) |  |  |  | Wireless (Cellular/PCS) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Assigned | Aging | Available | OCNs | Assigned | Aging | Available | OCNs |
| 716 | 2,576 | 256 | 1,868 | 24 | 826 | 37 | 421 | 12 |
| 717 | 1,812 | 96 | 2,290 | 22 | 667 | 28 | 434 | 8 |
| 718 | 4,607 | 435 | 1,623 | 28 | 163 | 8 | 51 | 5 |
| 719 | 1,229 | 119 | 1,035 | 23 | 392 | 48 | 739 | 11 |
| 720 | 673 | 65 | 990 | 17 | 514 | 74 | 481 | 7 |
| 724 | 1,316 | 69 | 3,703 | 29 | 436 | 35 | 526 | 11 |
| 727 | 1,584 | 126 | 1,301 | 22 | 399 | 45 | 222 | 6 |
| 731 | 404 | 29 | 980 | 16 | 167 | 22 | 402 | 10 |
| 732 | 2,446 | 199 | 2,446 | 20 | 857 | 62 | 220 | 6 |
| 734 | 1,150 | 58 | 2,722 | 26 | 505 | 58 | 451 | 8 |
| 740 | 1,230 | 74 | 2,234 | 21 | 385 | 30 | 922 | 13 |
| 754 | Not shown to protect carrier confidentiality |  |  | 1 | 0 | 0 | 0 | 0 |
| 757 | 2,019 | 101 | 1,277 | 17 | 758 | 63 | 583 | 8 |
| 760 | 1,631 | 97 | 2,762 | 29 | 651 | 68 | 503 | 10 |
| 763 | 950 | 78 | 987 | 31 | 71 | 5 | 111 | 8 |
| 765 | 1,032 | 57 | 2,647 | 36 | 313 | 47 | 894 | 10 |
| 770 | 3,377 | 287 | 1,547 | 18 | 826 | 61 | 119 | 12 |
| 773 | 1,771 | 132 | 1,691 | 23 | 928 | 90 | 611 | 8 |
| 774 | 32 | 2 | 629 | 18 | 6 | 0 | 255 | 6 |
| 775 | 822 | 46 | 1,616 | 20 | 259 | 22 | 219 | 8 |
| 781 | 2,305 | 126 | 3,690 | 26 | 342 | 17 | 174 | 7 |
| 785 | 787 | 39 | 2,594 | 26 | 291 | 15 | 480 | 12 |
| 786 | 218 | 10 | 747 | 22 | 319 | 44 | 419 | 7 |
| 787 | Not shown to protect carrier confidentiality |  |  | 2 | 1,890 | 130 | 938 | 7 |
| 801 | 2,942 | 160 | 1,767 | 17 | 823 | 94 | 594 | 7 |
| 802 | 761 | 22 | 3,303 | 15 | 141 | 1 | 267 | 5 |
| 803 | 1,561 | 77 | 1,279 | 36 | 594 | 47 | 785 | 13 |
| 804 | 1,982 | 117 | 1,568 | 20 | 617 | 54 | 575 | 11 |
| 805 | 1,707 | 81 | 2,095 | 24 | 630 | 55 | 548 | 9 |
| 806 | 619 | 54 | 2,206 | 27 | 300 | 25 | 375 | 11 |
| 808 | 1,550 | 123 | 1,429 | 4 | 616 | 44 | 453 | 7 |
| 810 | 643 | 43 | 2,014 | 20 | 705 | 122 | 731 | 10 |
| 812 | 1,186 | 70 | 2,887 | 31 | 407 | 56 | 683 | 15 |
| 813 | 1,888 | 142 | 1,292 | 27 | 483 | 54 | 212 | 7 |
| 814 | 1,156 | 57 | 2,682 | 18 | 384 | 20 | 678 | 14 |
| 815 | 1,330 | 101 | 3,500 | 40 | 607 | 44 | 557 | 17 |
| 816 | 1,334 | 74 | 2,403 | 27 | 832 | 61 | 554 | 12 |
| 817 | 1,810 | 155 | 2,876 | 35 | 784 | 68 | 265 | 6 |
| 818 | 2,002 | 121 | 1,803 | 27 | 924 | 78 | 292 | 6 |
| 828 | 963 | 63 | 1,200 | 24 | 392 | 29 | 531 | 10 |
| 830 | 451 | 47 | 1,484 | 20 | 127 | 19 | 242 | 13 |
| 831 | 661 | 35 | 1,303 | 18 | 258 | 26 | 315 | 9 |
| 832 | 337 | 15 | 1,592 | 25 | 645 | 73 | 606 | 6 |
| 843 | 1,596 | 98 | 1,620 | 26 | 613 | 58 | 751 | 13 |
| 845 | 1,322 | 83 | 1,070 | 26 | 160 | 10 | 184 | 9 |
| 847 | 2,839 | 147 | 2,539 | 24 | 1,045 | 75 | 582 | 8 |
| 848 | Not shown | otect carr | nfidentiality | 3 | 0 | 0 | 128 | 4 |
| 850 | 1,327 | 93 | 1,570 | 20 | 521 | 48 | 572 | 17 |
| 856 | 1,310 | 90 | 2,347 | 22 | 216 | 12 | 218 | 6 |
| 857 | 12 | 0 | 459 | 17 | 10 | 2 | 222 | 6 |
| 858 | 1,260 | 65 | 1,412 | 21 | 240 | 18 | 172 | 6 |
| 859 | 970 | 56 | 1,463 | 24 | 422 | 42 | 554 | 13 |
| 860 | 1,770 | 79 | 3,204 | 18 | 675 | 44 | 411 | 6 |
| 862 | 0 | 0 | 40 | 4 | 0 | 0 | 97 | 4 |
| 863 | 777 | 66 | 1,054 | 18 | 198 | 33 | 446 | 8 |

Table 7

## Assigned, Aging and Available Telephone Numbers by Area Code (in thousands except OCNs)

| Area Code | Wireline (ILECs and CLECs) |  |  |  | Wireless (Cellular/PCS) |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Assigned | Aging | Available | OCNs | Assigned | Aging | Available | OCNs |
| 864 | 1,107 | 102 | 1,311 | 21 | 544 | 45 | 540 | 6 |
| 865 | 805 | 58 | 742 | 17 | 392 | 47 | 234 | 9 |
| 870 | 765 | 50 | 2,727 | 23 | 319 | 21 | 737 | 11 |
| 878 | Not shown to protect carrier confidentiality |  |  | 1 | 0 | 0 | 0 | 0 |
| 901 | 1,286 | 79 | 700 | 20 | 629 | 110 | 402 | 8 |
| 903 | 1,142 | 92 | 2,602 | 28 | 475 | 48 | 750 | 15 |
| 904 | 1,373 | 90 | 912 | 23 | 597 | 71 | 377 | 10 |
| 906 | 246 | 11 | 1,285 | 15 | 96 | 5 | 318 | 5 |
| 907 | 764 | 59 | 3,216 | 24 | 257 | 4 | 309 | 7 |
| 908 | 1,267 | 69 | 2,541 | 27 | 566 | 26 | 871 | 7 |
| 909 | 2,708 | 125 | 1,560 | 24 | 1,159 | 92 | 256 | 5 |
| 910 | 1,041 | 71 | 1,360 | 24 | 534 | 62 | 782 | 9 |
| 912 | 684 | 56 | 860 | 28 | 373 | 28 | 442 | 12 |
| 913 | 918 | 53 | 1,188 | 22 | 324 | 27 | 228 | 9 |
| 914 | 1,487 | 69 | 1,629 | 34 | 814 | 34 | 368 | 9 |
| 915 | 1,377 | 106 | 2,327 | 27 | 537 | 56 | 553 | 19 |
| 916 | 1,657 | 99 | 1,935 | 21 | 771 | 67 | 485 | 9 |
| 917 | 657 | 20 | 328 | 16 | 2,742 | 137 | 182 | 7 |
| 918 | 1,263 | 71 | 2,263 | 31 | 574 | 53 | 739 | 13 |
| 919 | 2,041 | 128 | 1,852 | 28 | 786 | 74 | 574 | 10 |
| 920 | 1,012 | 48 | 1,934 | 35 | 462 | 34 | 1,016 | 15 |
| 925 | 1,216 | 64 | 2,333 | 22 | 445 | 32 | 340 | 7 |
| 928 | 912 | 44 | 1,158 | 22 | 186 | 19 | 552 | 12 |
| 931 | 593 | 55 | 1,313 | 22 | 260 | 39 | 554 | 15 |
| 936 | 502 | 28 | 967 | 17 | 145 | 15 | 259 | 8 |
| 937 | 1,552 | 91 | 2,294 | 21 | 573 | 59 | 922 | 9 |
| 939 | Not shown | otect carr | nfidentiality | 1 | Not shown to prow | ct carrier | fidentiality | 2 |
| 940 | 485 | 45 | 1,428 | 33 | $175$ | 13 | 260 | 12 |
| 941 | 1,906 | 124 | 1,867 | 21 | 497 | 54 | 548 | 10 |
| 949 | 1,310 | 93 | 1,793 | 27 | 444 | 42 | 212 | 6 |
| 952 | 1,228 | 82 | 993 | 29 | 61 | 4 | 82 | 7 |
| 954 | 2,023 | 167 | 1,063 | 26 | 877 | 91 | 385 | 7 |
| 956 | 734 | 63 | 802 | 14 | 355 | 46 | 740 | 8 |
| 970 | 1,224 | 90 | 1,377 | 24 | 426 | 41 | 959 | 14 |
| 971 | 38 | 1 | 334 | 17 | 18 | 6 | 84 | 6 |
| 972 | 3,275 | 246 | 2,520 | 30 | 339 | 24 | 39 | 6 |
| 973 | 2,842 | 149 | 2,454 | 26 | 749 | 47 | 137 | 5 |
| 978 | 2,073 | 77 | 3,424 | 27 | 392 | 13 | 202 | 6 |
| 979 | 474 | 45 | 1,088 | 21 | 184 | 18 | 434 | 10 |
| 980 | Not shown | otect carr | nfidentiality | 3 | 11 | 2 | 139 | 5 |
| 985 | 513 | 37 | 886 | 14 | 235 | 131 | 538 | 10 |
| 989 | 755 | 54 | 1,873 | 20 | 276 | 16 | 733 | 14 |

Source: Numbering Resource Utilization/Forecast forms filed with NeuStar as of April 22, 2002.

Table 8
Pooled and Potentially Poolable ${ }^{1}$ Thousands-blocks as of December 31, 2001

| State | Pooled | Poolable |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  | ILECs and CLECs | ILECs and CLECs | Cellular/PCS | Total |
| Alabama | 0 | 3,072 | 1,555 | 4,627 |
| Alaska | 0 | 885 | 194 | 1,079 |
| Arizona | 0 | 2,097 | 1,349 | 3,446 |
| Arkansas | 0 | 2,368 | 1,017 | 3,385 |
| California | 20,865 | 33,503 | 5,076 | 38,579 |
| Colorado | 1,430 | 2,652 | 1,567 | 4,219 |
| Connecticut | 3,742 | 4,021 | 531 | 4,552 |
| Delaware | 0 | 1,398 | 171 | 1,569 |
| District of Columbia | 0 | 608 | 130 | 738 |
| Florida | 2,695 | 10,594 | 3,211 | 13,805 |
| Georgia | 0 | 5,546 | 1,497 | 7,043 |
| Hawaii | 0 | 761 | 246 | 1,007 |
| Idaho | 0 | 1,009 | 787 | 1,796 |
| Illinois | 6,757 | 13,359 | 3,360 | 16,719 |
| Indiana | 2,309 | 6,821 | 1,635 | 8,456 |
| Iowa | 280 | 1,316 | 1,476 | 2,792 |
| Kansas | 0 | 4,513 | 771 | 5,284 |
| Kentucky | 0 | 4,350 | 1,510 | 5,860 |
| Louisiana | 0 | 2,506 | 1,499 | 4,005 |
| Maine | 1,878 | 922 | 307 | 1,229 |
| Maryland | 7,753 | 6,503 | 1,045 | 7,548 |
| Massachusetts | 3,480 | 12,078 | 1,082 | 13,160 |
| Michigan | 0 | 13,305 | 3,431 | 16,736 |
| Minnesota | 0 | 3,243 | 1,101 | 4,344 |
| Mississippi | 0 | 2,820 | 921 | 3,741 |
| Missouri | 0 | 6,943 | 2,494 | 9,437 |
| Montana | 0 | 546 | 908 | 1,454 |
| Nebraska | 360 | 1,978 | 555 | 2,533 |
| Nevada | 0 | 1,443 | 224 | 1,667 |
| New Hampshire | 2,378 | 1,938 | 437 | 2,375 |
| New Jersey | 2,168 | 10,919 | 1,498 | 12,417 |
| New Mexico | 0 | 526 | 632 | 1,158 |
| New York | 15,861 | 10,660 | 2,282 | 12,942 |
| North Carolina | 3,074 | 5,968 | 2,637 | 8,605 |
| North Dakota | 0 | 409 | 719 | 1,128 |
| Ohio | 0 | 11,171 | 3,738 | 14,909 |
| Oklahoma | 0 | 2,830 | 1,041 | 3,871 |
| Oregon | 2,460 | 2,317 | 932 | 3,249 |
| Pennsylvania | 11,221 | 18,912 | 2,793 | 21,705 |
| Rhode Island | 0 | 1,537 | 120 | 1,657 |
| South Carolina | 0 | 2,268 | 1,289 | 3,557 |
| South Dakota | 0 | 507 | 729 | 1,236 |
| Tennessee | 0 | 3,786 | 1,396 | 5,182 |
| Texas | 5,134 | 20,451 | 4,884 | 25,335 |
| Utah | 1,244 | 1,655 | 1,054 | 2,709 |
| Vermont | 0 | 2,688 | 195 | 2,883 |
| Virginia | 5,448 | 4,602 | 1,998 | 6,600 |
| Washington | 800 | 5,248 | 1,561 | 6,809 |
| West Virginia | 0 | 1,928 | 564 | 2,492 |
| Wisconsin | 0 | 4,010 | 2,507 | 6,517 |
| Wyoming | 0 | 259 | 460 | 719 |
| Totals | 101,337 | 265,749 | 73,116 | 338,865 |

Source: Numbering Resource Utilization/Forecast forms filed with NeuStar, Inc. as of April 22, 2002 and January 2002 LERG.
${ }^{1}$ Thousands-blocks can be dontated to a pool if $90 \%$ of the numbers in the block are available. If a state has implemented pooling, carriers are allowed to keep a six-month inventory of numbers in each rate center, so not all thousands-blocks that are listed as poolable are actually subject to pooling. At least $90 \%$ of the numbers in these thousands-blocks are available, and therefore at least $90 \%$ of the numbers in these blocks are a subset of the numbers shown as available in Tables 1 through 3 .





## Table 9

Number Utilization for Specialized Non-geographic Area Codes as of December 31, 2001

| Specialized Area Codes | Assigned | Intermediate | Reserved <br> (Thous | Aging of teleph | Admin | Available ${ }^{1}$ | Total | Unique NXXs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 500 | 1,989 | 396 | 5 | 1,139 | 38 | 1,273 | 4,840 | 484 |
|  | 41.1\% | 8.2\% | 0.1\% | 23.5\% | 0.8\% | 26.3\% |  |  |
| 900 | 168 | 107 | 9 | 7 | 0 | 1,078 | 1,370 | 137 |
|  | 12.3\% | 7.8\% | 0.6\% | 0.5\% | 0.0\% | 78.7\% |  |  |

Source: Numbering Resource Utilization/Forecast forms filed with NeuStar as of April 22, 2002.

Table 10
Alternate Sources of NPA-NXX Assignments

| NPA-NXXs that Appear in | NRUF | NANPA | LERG | NXXs |
| :--- | :---: | :---: | :---: | :---: |
| All Three Databases |  |  |  |  |
| NRUF, NANPA and LERG | $\checkmark$ | $\checkmark$ | $\checkmark$ | 104,761 |
| Two of the Three Databases |  |  |  |  |
| NRUF and NANPA | $\checkmark$ | $\checkmark$ |  | 10,765 |
| NANPA and LERG |  | $\checkmark$ | $\checkmark$ | 5,497 |
| NRUF and LERG | $\checkmark$ |  |  | $\checkmark$ |
| Only One Database | $\checkmark$ |  |  | 2,766 |
| NRUF |  | $\checkmark$ |  | 1,297 |
| NANPA |  |  | $\checkmark$ | 6,402 |
| LERG | 119,589 | 127,425 | 119,615 | 6,591 |
| Total NXXs in Database. |  |  |  |  |

Sources: December 31, 2001 NRUF database, as of April 22, 2002; NANPA's NPA-NXX assignments database as of May 15, 2002; and the LERG, as of January 1, 2002.
${ }^{1}$ Includes only telephone numbers in NXXs assigned to carriers and are therefore available for assignment to customers. Does not include any numbers in NXXs that have not yet been assigned to carriers.

## Table 11

Number Utilization Over Time

| Carrier Type | December 2000 | June 2001 | December 2001 |
| :--- | :---: | :---: | :---: |
| ILEC | $52.1 \%$ | $52.1 \%$ | $52.5 \%$ |
| CLEC | $9.8 \%$ | $10.9 \%$ | $11.4 \%$ |
| Cellular/PCS | $46.2 \%$ | $45.3 \%$ | $47.2 \%$ |
| Paging | $26.3 \%$ | $24.8 \%$ | $20.2 \%$ |
| Overall | $40.1 \%$ | $39.6 \%$ | $39.7 \%$ |

Source: Numbering Resource Utilization/Forecast forms filed with NeuStar, Inc.

Table 12
NPA-NXXs Assigned, Returned and Net Assignments

| Quarter | NPA-NXXs <br> Assigned | NPA-NXXs <br> Returned | Net <br> Assignments |
| :--- | :---: | :---: | :---: |
| 1998 Q3 | 1,554 | 0 | 1,554 |
| 1998 Q4 | 2,375 | 0 | 2,375 |
| 1999 Q1 | 3,019 | 0 | 3,019 |
| 1999 Q2 | 4,693 | 95 | 4,598 |
| 1999 Q3 | 4,202 | 164 | 4,038 |
| 1999 Q4 | 3,993 | 545 | 3,448 |
| 2000 Q1 | 4,552 | 775 | 3,777 |
| FCC Issued First Numbering Resource Optimization Order |  |  |  |
| 2000 Q2 | 4,126 | 923 | 3,203 |
| 2000 Q3 | 3,497 | 818 | 2,679 |
| 2000 Q4 | 3,235 | 1,146 | 2,089 |
| FCC Issued Second Numbering Resource Optimization Order |  |  |  |
| 2001 Q1 | 3,095 | 1,725 | 1,370 |
| 2001 Q2 | 3,136 | 1,320 | 1,816 |
| 2001 Q3 | 2,112 | 1,611 | 501 |
| 2001 Q4 | 2,055 | 1,402 | 653 |
| 2002 Q1 | 1,731 | 1,199 | 532 |

Source: NeuStar, Inc.

## Customer Response

Publication: $\quad$ Numbering Resource Utilization in the United States as of December 31, 2001.
You can help us provide the best possible information to the public by completing this form and returning it to the Industry Analysis and Technology Division of the FCC's Wireline Competition Bureau.

1. Please check the category that best describes you:
__ Press
__ Current telecommunications carrier
__ Potential telecommunications carrier
__ Business customer evaluating vendors/service options
___ Consultant, law firm, lobbyist
___ Other bus iness customer
__ Academic/student
___ Residential customer
___ FCC employee
__ Other federal government employee
__ State or local government employee
__ Other (please specify)
2. Please rate the report: Excellent Good Satisfactory Poor No opinion Data accuracy

3. Overall, how do you Excellent Good Satistactory Poor No opinion rate this report?

4. How can this report be improved?
5. May we contact you to discuss possible improvements?

Name:
Telephone \#:

| To discuss this report, contact Craig Stoup at 202-418-0989 or [cstroup@fcc.gov](mailto:cstroup@fcc.gov). |  |  |
| :---: | :---: | :---: |
| Fax this response to: | or | Mail this response to: |
| $202-418-0520$ |  | FCC/WCB/IATD |


[^0]:    ${ }^{1}$ The previous edition of this report was released on November 13, 2001, Industry Analysis Division, Common Carrier Bureau, Numbering Resource Utilization in the United States as of June 30, 2001.
    ${ }^{2}$ See Numbering Resource Optimization, CC Docket No. 99-200, Report and Order and Further Notice of Proposed Rulemaking, 15 FCC Rcd 7574 (2000) (NRO Report and Order); Numbering Resource Optimization, CC Docket Nos. 99-200 and 96-98, Second Report and Order, Order on Reconsideration in CC Docket No. 9698 and CC Docket No. 99-200, and Second Further Notice of Proposed Rulemaking in CC Docket No. 99-200, 16 FCC Rcd 306 (2000) (NRO Second Report and Order); Numbering Resource Optimization ,CC Docket Nos. 99-200, 96-98, and 95-116, Third Report and Order and Second Order on Reconsideration in CC Docket No. 96-98 and CC Docket No. 99-200, 17 FCC Rcd 252 (2001); Numbering Resource Optimization, CC Docket Nos. 99-200, 96-98, and 95-116, Third Order on Reconsideration in CC Docket No. 99-200, Third Further Notice of Proposed Rulemaking in CC Docket 99-200, and second Further Notice of Proposed Rulemaking in CC Docket No.95-116, 17 FCC Rcd 4784 (2002) (NRO Third Order on Reconsideration).
    ${ }^{3}$ The North American Numbering Plan is used in the United States and its territories; and in Canada, Bermuda, and many Caribbean nations, including Anguilla, Antigua \& Barbuda, Bahamas, Barbados, British Virgin

[^1]:    ${ }^{11}$ The current pooling administrator is NeuStar, Inc., which is also the NANPA. See Federal Communications Commission's Common Carrier Bureau Selects NeuStar, Inc. as National Thousands-Block Number Pooling Administrator, News Release (rel. June 18, 2001).
    ${ }^{12} 47$ U.S.C. § 153(37).
    ${ }^{13}$ Carriers classified themselves in a variety of ways on their NRUF forms, but were aggregated into four categories for the purposes of this report. Also, carriers may provide multiple types of services, but must indicate only their primary line of business on FCC Form 502.
    ${ }^{14}$ For precise definitions of these categories see 47 C.F.R. § 52.15(f)(1).

[^2]:    ${ }^{15}$ This means that sometimes more than one carrier can report utilization data for the same thousands-block (or ten-thousands block). Carriers receiving numbers from another carrier are required to report utilization data for those numbers on a different page (of FCC Form 502) than the page that carriers use to report numbers received directly from the NANPA. Not all carriers that received numbers from other carriers filed on the correct page, however, so within the database it can appear that more than one carrier has reported data for the same block of numbers. Carriers that receive numbers from other carriers are also required, of course, to report on any telephone numbers received from the NANPA.
    ${ }^{16}$ For utilization information on these toll-free numbers, see Industry Analysis and Technology Division, Wireline Competition Bureau, Trends in Telephone Service (May 2002) Tbl. 19.2.
    ${ }^{17}$ The NANPA lists the NXXs that have been assigned on their web site: http://www.nanpa.com/number_resource_info/co_code_assignments.html.

[^3]:    ${ }^{18}$ See NRO Report and Order, 15 FCC Rcd at 7604-7605. A small number of rural carriers may operate in areas where thousands-block number pooling is required. As all carriers in pooling areas are required to report at the thousands-block level, rural carriers in pooling areas, if any, should be included in Table 2 rather than Table 3.
    ${ }^{19}$ See NRO Report and Order, 15 FCC Rcd at 7594, para. 41. Carriers obtain OCNs from the National Exchange Carrier Association.

[^4]:    ${ }^{20}$ Churn is the rate at which customers change carriers.
    ${ }^{21}$ See NRO Second Report and Order, 16 FCC Rcd at 322-330.
    ${ }^{22}$ See The Common Carrier Bureau Announces First Quarter Schedule for National Thousands-block Number Pooling, CC Docket No. 99-200, Public Notice, 17 FCC Rcd 103 (2001). See also Numbering Resource Optimization, CC Docket No. 99-200, Order, 17 FCC Rcd 7347 (2002).

[^5]:    ${ }^{23}$ For the purposes of these figures, the utilization rate is defined as the number of telephone numbers assigned to end-user customers divided by the number of telephone numbers in that NXX $(10,000)$.
    ${ }^{24}$ A rate center is a geographic area used to determine distances and prices for local and long distance calls.
    ${ }^{25}$ Thus, wherever a carrier reported 7 thousands-blocks in a rate center, those blocks were treated as if the carrier reported 10 thousands-blocks in the rate center. They were then grouped with all other observations where a carrier reported a number of thousands-blocks in a rate center that rounded to 10 . Similarly, wherever a carrier reported 14 thousands-blocks in a rate center, those observations were grouped as if the carrier had reported 10 thousands-blocks in that rate center.

[^6]:    ${ }^{26}$ The NANPA's assignment database can be found online at http://www.nanpa.com/number resource info/co code assignments1.html. The LERG is published monthly by Telcordia Technologies.
    ${ }^{27}$ During permissive dialing, a phone number may be called by using either the old or the new NPA.
    ${ }^{28}$ In some instances, more than one carrier reported numbering utilization data for the same NPA-NXX. Tables 1-3 report on the number of unique NPA-NXXs that were reported by each carrier type and by the industry as a whole.

[^7]:    ${ }^{29}$ Unified messaging services allow end users to receive multiple types of messages (such as voicemail and faxes) at one phone number. Typically, these messages are then digitized and e-mailed to the end user. Because the end user does not need to answer the call personally, the messages can be sent to any phone number in the United States. Presumably, unified messaging service providers operate most efficiently by obtaining a large number of NXXs in a single rate center, so the use of their equipment can be optimized.
    ${ }^{30}$ Carriers assigning numbers to unified messaging services are required to report numbers as "intermediate" until the numbers are assigned by the unified messaging service providers to end users. Some carriers have assigned large quantities of numbers to unified messaging services but may not have received information back from the unified messaging company as to whether any of those numbers have been assigned to end users. This may explain why some carriers reported dozens of NXXs in a single rate center, yet still classified all those numbers as intermediate rather than assigned.

