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## FCC RELEASES TELEPHONE NUMBERING RESOURCE UTILIZATION REPORT

## Over 36 Million Telephone Numbers Recovered in 2002 from Carriers to be Reused

Washington, D.C. - The Federal Communications Commission (FCC) today released its latest in an ongoing series of reports on telephone number utilization in the United States. Telephone number utilization refers to how efficiently telephone numbers are being used by carriers. At the end of 2002, numbering resource utilization was $39.2 \%$, down from $39.7 \%$ a year earlier.

The report presents numbering resource utilization statistics based on December 31, 2002 data that carriers submitted to the North American Numbering Plan Administrator (NANPA), as well as other information.

## Summary Data

1. Utilization Statistics by Carrier Type - Reporting carriers have over 1.2 billion telephone numbers, of which 483 million were assigned to customers, more than 651 million were available to be assigned, and about 97 million were used for other purposes, such as for administrative use.

Following is utilization statistics by carrier type as of December 31, 2002:

- The overall utilization rate for Incumbent Local Exchange Carriers (ILECs) is $52.2 \%$, down from $52.5 \%$ the year before.
- The overall utilization rate for Cellular/PCS carriers is $47.8 \%$, up from $47.2 \%$ the year before.
- The overall utilization rate for Competitive Local Exchange Carriers (CLECs) is $10.6 \%$, down from $11.4 \%$ the year before.
- The overall utilization rate for Paging carriers is $17.0 \%$, down from $20.2 \%$ the year before.

2. Telephone Numbers Returned - As required by the Commission's Numbering Resource Optimization Orders, 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. In 2002, carriers returned the equivalent of more than four 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 first half of 2002, carriers returned 24.6 million telephone numbers to the NANPA.
- In the second half of 2002, carriers returned 11.5 million telephone numbers to the NANPA.

3. Most Utilized Area Codes in the United States - New York's area code 212 (New York City) is the most utilized with $76.6 \%$ of numbers assigned to customers. Arizona's area code 480 (Phoenix) is next with $66.2 \%$ of numbers assigned to customers.

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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# Numbering Resource Utilization in the United States as of December 31, 2002 

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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, 2002 

## Executive Summary

This is the Federal Communications Commission's report on numbering resource utilization in the United States. ${ }^{1}$ In this report, we summarize an ongoing 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 was analyzed as part of our ongoing assessment of the efficacy of numbering resource optimization measures prescribed by the Commission's Numbering Resource Optimization (NRO) Orders. ${ }^{2}$

## Findings

As of December 31, 2002:

- Carriers reported data on over 1.2 billion telephone numbers (see Table 1).
- Overall, $39.2 \%$ of all telephone numbers are assigned to end users (see Table 1).
- Area code 212 (in New York City, NY) is the most utilized in the United States at 76.6\% (see Table 6).
- In the second half of 2002, 11.45 million telephone numbers ( 1,145 NPA-NXXs) 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 FCC Form 502, which is known as 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, 2002. It reflects all corrections and submissions that the NANPA had received through April 15, 2003.

Historically, local telephone companies received geographic numbers in blocks of 10,000. These blocks of 10,000 numbers are often called NXXs, or central office codes, 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 number pooling," where an NXX is broken into ten sequential blocks of 1,000 numbers. Carriers may then be required to donate unused or underutilized blocks to a pooling administrator, which then assigns those thousands-blocks to other carriers in need of numbers. ${ }^{10}$ This

[^1]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"11 and operate in non-pooling areas are required to submit their number usage at the NXX level.

In this report, we present utilization data for four types of carriers: ${ }^{12}$

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

Carriers report on numbering resources in the following six categories:

- assigned
- intermediate
- reserved
- aging
- administrative
- 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 them 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. ${ }^{13}$

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

[^2]required to report utilization data for those numbers, and to mark those numbers as having been received from other carriers. ${ }^{14}$

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 or another country. For instance, area code 406 is associated with Montana, and area code 506 is associated with New Brunswick, Canada. Carriers are also required to report on utilization of some non-geographic area codes, such as 500 numbers and 900 numbers (which are described later in this report).

Carriers use other types of non-geographic numbering resources as well: millions of numbers are used to provide toll-free services using non-geographic area codes such as $800,888,877$ and 866. These numbering resources are managed separately; they are neither surveyed on FCC Form 502, nor is their utilization presented in this report.

## Analysis and Results

Table 1 shows the total quantity of telephone numbers reported by the carriers and the number of 10,000 blocks (or NXXs) that were reported. Table 1 also shows the quantity of telephone numbers that carriers reported for each of the six categories. The percentages for each of the six categories are provided as well.

Carriers have reported usage data for about 122,500 NXXs. This is up from the 119,600 NXXs from the previous filing (data for December 31, 2001). As the NANPA calculates that about 129,000 NXXs have been assigned to United States carriers, ${ }^{15}$ this round of submissions (data for December 31, 2002) appears to have garnered usable information on $95 \%$ of the numbering resources assigned to carriers in the United States. Although the reporting level is high, many carriers still had not provided usable utilization data by April 15,2003 , the cut-off date for inclusion in this report.

Carriers filing FCC Forms 502 reported that more than 480 million telephone numbers were assigned to end users, and that more than 650 million were available for assignment. Thus, the quantity of numbers available for assignment exceeds the number already assigned to end users. These 650 million available numbers do not include any telephone numbers in NXXs that had not yet been assigned to a carrier. As more NXXs are assigned to carriers by the NANPA, and more area codes are opened up, more numbers will become available. Intermediate, reserved, aging and administrative categories collectively account for another 110 million telephone numbers of the assigned NXXs.

[^3]Table 2 presents utilization statistics for carriers reporting 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). Table 3 presents statistics for rural carriers, which are required to report only at the 10,000 block level. ${ }^{16}$ As might be expected, overall utilization rates are lower in rural areas ( $18 \%$ of telephone numbers are assigned to end users) than in more urban areas ( $41 \%$ of telephone numbers are assigned to end users).

Table 4 shows utilization statistics on a state-by-state basis. As might be expected, states that are relatively rural and have low population densities have a lower percentage of numbers that have been assigned to end-user customers than in more urban, populous states. 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 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. ${ }^{17}$ Carriers typically obtain one or more OCNs per state in which they operate. The number of carriers in each state is determined by counting the number of OCNs reported in each state.

Table 6 shows utilization statistics on an area code-by-area code basis. The table also shows the total number of OCNs that reported for each area code. Wherever fewer than four carriers report data for an area code, the information is withheld to prevent release of proprietary data. 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.

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 working telephone lines in each area code. The number of working 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.

[^4]Second, the information in Table 7 provides the only information available for examining churn. ${ }^{18}$ 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 from the carrier's network 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 or the pooling administrator because of area code rationing, and the carriers have no other available numbers to assign to end users, carriers may assign end users telephone numbers that have not completed the aging process. (Thousands-block pooling alleviates this problem.) Moreover, 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.

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 is required in the top 100 MSAs. ${ }^{19}$ Pooling also is occurring in other areas where a state commission has exercised delegated authority to require pooling. Carriers also have voluntarily implemented pooling in certain areas. The Commission established a roll-out schedule for thousands-block number pooling where about 21 NPAs per quarter implement pooling. ${ }^{20}$ The schedule will be completed by December 2003.

Table 8 shows the number of thousands-blocks that were transferred from one carrier to another through pooling. Table 8 also shows the number of thousands-blocks that are presumably poolable and are in rate centers where pooling exists. Finally, Table 8 shows the number of presumably poolable thousands-blocks if one assumes that pooling is implemented statewide. NeuStar provided the Commission with a list of thousands-blocks that had been transferred from one carrier to another under pooling. NeuStar's NRUF database was used to determine the number of thousands-blocks where at least $90 \%$ of the numbers were available, and therefore were presumably poolable. Given that carriers with poolable numbering resources are allowed to retain a six-month inventory of numbers in each rate center, and given that pooling may not be implemented statewide, the number of presumably poolable thousands-blocks shown in Table 8 is likely overstated. Wireless carriers are listed separately from CLECs and ILECs because wireless carriers just recently started pooling on November 24, 2002.

[^5]Figures 1 through 4 focus on utilization rates as a function of the number of thousands-blocks that the carriers hold within a local geographic area. ${ }^{21}$ We have used rate centers as our measure of local geographic area because NXXs (and therefore, thousands-blocks) are assigned to carriers on a rate-center basis. ${ }^{22}$ Carriers serving densely populated areas may need more than one NXX (each NXX contains 10 thousands-blocks) to provide service. In these densely populated areas, carriers should generally be able to achieve higher utilization rates than carriers serving less densely populated areas, where a whole NXX may be used to serve just a few customers.

Figure 1 shows average ILEC utilization rates as a function of the number of thousandsblocks in a rate center held by a carrier. The points in the figures were calculated using a three-step process. First, thousands-blocks were grouped depending on the number of thousands-blocks held by a carrier within a rate center. Second, the number of thousandsblocks held in a rate center was rounded to the nearest ten, to help protect the confidentiality of the data. Third, the average utilization rates were calculated for each of the groups (i.e., from the group of 10 thousands-blocks per rate center through the group of 1,000 thousandsblocks per rate center). ${ }^{23}$ For example, for all instances where a carrier reported from 5 to 14 (which round to 10) thousands-blocks in a rate center, the average utilization rate was calculated. A similar average utilization rate was calculated for all instances where, for a carrier in a rate center, the number of thousands-blocks in a rate center was rounded to 20 , 30 , and so on through 1,000 . To preserve carrier confidentiality, some data points have been collapsed into a single data point. For example, if there were only two companies with 350 thousands-blocks in a rate center, and another two companies with 360 thousands-blocks in a rate center, those data points were collapsed. This way, no carrier-specific data are released. Figures 2 through 4 show the same information for Cellular/PCS carriers, CLECs, and paging carriers.

Table 9 shows utilization data for two specialized nongeographic area codes: 500 and 900. Area code 500 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. Area code 900 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 call's recipient. Carriers reported utilization data for these specialized NPAs for the first time with their June 2001 data.

There are three different databases that contain sources of NPA-NXX assignment information: NANPA's NRUF database, NANPA's Code Administration System (CAS) database of NPA-NXX assignments, and the Local Exchange Routing Guide (LERG). ${ }^{24}$ For

[^6]a variety of reasons, the databases are not identical. Timing is a large factor in the differences. For instance, during an area code split, a carrier will maintain both the old and new NPA-NXXs in its systems during the phase called permissive dialing. ${ }^{25}$ After permissive dialing ends, the carrier should remove the old NPA-NXXs from its systems. During permissive dialing, some carriers report utilization data for both the old and the new NPA-NXXs. Further, some carriers may not remove the old NPA-NXXs from their systems promptly after permissive dialing ends, and may therefore report utilization data on both the old and the new NPA-NXXs. Also, carriers sometimes delay updating the LERG after an NPA-NXX has been removed from their switch or when the carrier has given the NPA-NXX back to the NANPA. 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 the percentage of numbers that have been assigned to end users over time. Over the last twelve months, the overall percentage of assigned numbers has decreased slightly. This is not unexpected given that ILECs have fewer lines this year than last, and that the paging market is shrinking. With fewer lines, the percentages of numbers assigned to end users 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 generally are being issued each quarter, and that carriers continue to return large quantities of unneeded NPA-NXXs to the NANPA for reassignment.

## 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. ${ }^{26}$ 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 large carriers have not reported these numbers as intermediate numbers. Because, in many instances, we
by Telcordia Technologies. The analysis in Table 10 examines only those codes in NANPA's CAS database that are marked "assigned" (i.e., this study does not examine those codes marked "protected", "reserved", "unassignable", or "vacant").
${ }^{25}$ During permissive dialing, a phone number may be called by using either the old or the new NPA.
${ }^{26}$ 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.
were unable to match submissions that report intermediate numbers with submissions that report 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 in these instances (where the carrier has more than 1,000 thousands blocks in a rate center) were the same as the instances where the carrier has just fewer than 1,000 thousands blocks in a rate center. Therefore, the figures show only the data where the carriers reported up to 1,000 thousands-blocks within a rate center. This allows a linear scale to 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, such as e-fax . ${ }^{27}$ These services use large quantities of numbers. ${ }^{28}$ Second, 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 thousandsblocks (one NXX using the old area code, and another 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 using the attached customer response form, e-mailing comments to cstroup@fcc.gov, jvu@fcc.gov, or calling the Industry Analysis and Technology Division at (202) 418-0940 (for TTY, call (202) 418-0484).

[^7]Table 1
Number Utilization by Carrier Type as of December 31, 2002

| Carrier Type | Assigned | Intermediate | Reserved <br> (Thousands | Aging <br> of telephone numbers) |  | Admin | Available $^{1}$ | Total | Unique <br> NXXs |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| ILEC | 297,433 | 26,624 | 7,363 | 16,834 | 9,834 | 211,732 | 569,820 | 59,366 |  |
| Cellular/PCS | 141,776 | 3,545 | 1,361 | 8,496 | 2,965 | 138,312 | 296,455 | 29,225 |  |
| CLEC | 29,892 | 4,868 | 4,608 | 2,506 | 1,477 | 238,671 | 282,021 | 29,824 |  |
| Paging | 14,111 | 2,764 | 2,477 | 1,083 | 146 | 62,545 | 83,126 | 6,198 |  |
| All Reporting Carriers | 483,212 | 37,801 | 15,810 | 28,919 | 14,422 | 651,259 | $1,231,422$ | $122,504^{2}$ |  |
| ILEC | $52.2 \%$ | $4.7 \%$ | $1.3 \%$ | $3.0 \%$ | $1.7 \%$ | $37.2 \%$ | $100.0 \%$ |  |  |
| Cellular/PCS | $47.8 \%$ | $1.2 \%$ | $0.5 \%$ | $2.9 \%$ | $1.0 \%$ | $46.7 \%$ | $100.0 \%$ |  |  |
| CLEC | $10.6 \%$ | $1.7 \%$ | $1.6 \%$ | $0.9 \%$ | $0.5 \%$ | $84.6 \%$ | $100.0 \%$ |  |  |
| Paging | $17.0 \%$ | $3.3 \%$ | $3.0 \%$ | $1.3 \%$ | $0.2 \%$ | $75.2 \%$ | $100.0 \%$ |  |  |
| All Reporting Carriers | $39.2 \%$ | $3.1 \%$ | $1.3 \%$ | $2.3 \%$ | $1.2 \%$ | $52.9 \%$ | $100.0 \%$ |  |  |

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

| Carrier Type | Assigned | Intermediate | Reserved <br> (Thousands of telephone numbers) | Aging <br> Available | Total | Unique <br> NXXs |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| ILEC | 280,717 | 24,494 | 5,686 | 15,762 | 9,368 | 141,186 | 477,213 | 50,147 |
| Cellular/PCS | 138,782 | 3,476 | 1,237 | 8,313 | 2,892 | 130,948 | 285,648 | 28,160 |
| CLEC | 29,369 | 4,860 | 4,272 | 2,468 | 1,442 | 229,617 | 272,028 | 28,851 |
| Paging | 13,793 | 2,732 | 2,360 | 1,044 | 138 | 61,509 | 81,577 | 6,072 |
| All Reporting Carriers | 462,662 | 35,562 | 13,555 | 27,587 | 13,840 | 563,260 | $1,116,466$ | $111,199^{2}$ |
|  |  |  |  |  |  |  |  |  |
| ILEC | $58.8 \%$ | $5.1 \%$ | $1.2 \%$ | $3.3 \%$ | $2.0 \%$ | $29.6 \%$ | $100.0 \%$ |  |
| Cellular/PCS | $48.6 \%$ | $1.2 \%$ | $0.4 \%$ | $2.9 \%$ | $1.0 \%$ | $45.8 \%$ | $100.0 \%$ |  |
| CLEC | $10.8 \%$ | $1.8 \%$ | $1.6 \%$ | $0.9 \%$ | $0.5 \%$ | $84.4 \%$ | $100.0 \%$ |  |
| Paging | $16.9 \%$ | $3.3 \%$ | $2.9 \%$ | $1.3 \%$ | $0.2 \%$ | $75.4 \%$ | $100.0 \%$ |  |
| All Reporting Carriers | $41.4 \%$ | $3.2 \%$ | $1.2 \%$ | $2.5 \%$ | $1.2 \%$ | $50.5 \%$ | $100.0 \%$ |  |

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

| Carrier Type | Assigned | Intermediate | Reserved <br> (Thousands | Aging <br> of telephone | Admin <br> numbers) | Available $^{1}$ | Total | Unique <br> NXXs |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| ILEC | 16,716 | 2,130 | 1,677 | 1,072 | 466 | 70,547 | 92,607 | 9,224 |
| Cellular/PCS | 2,994 | 69 | 124 | 183 | 73 | 7,364 | 10,807 | 1,072 |
| CLEC | 523 | 8 | 336 | 38 | 35 | 9,054 | 9,993 | 995 |
| Paging | 318 | 32 | 117 | 39 | 8 | 1,035 | 1,550 | 126 |
| All Reporting Carriers | 20,550 | 2,239 | 2,254 | 1,332 | 582 | 87,999 | 114,956 | $11,395^{2}$ |
|  |  |  |  |  |  |  |  |  |
| ILEC | $18.1 \%$ | $2.3 \%$ | $1.8 \%$ | $1.2 \%$ | $0.5 \%$ | $76.2 \%$ | $100.0 \%$ |  |
| Cellular/PCS | $27.7 \%$ | $0.6 \%$ | $1.1 \%$ | $1.7 \%$ | $0.7 \%$ | $68.1 \%$ | $100.0 \%$ |  |
| CLEC | $5.2 \%$ | $0.1 \%$ | $3.4 \%$ | $0.4 \%$ | $0.4 \%$ | $90.6 \%$ | $100.0 \%$ |  |
| Paging | $20.5 \%$ | $2.1 \%$ | $7.6 \%$ | $2.5 \%$ | $0.5 \%$ | $66.8 \%$ | $100.0 \%$ |  |
| All Reporting Carriers | $17.9 \%$ | $1.9 \%$ | $2.0 \%$ | $1.2 \%$ | $0.5 \%$ | $76.6 \%$ | $100.0 \%$ |  |

Source: Numbering Resource Utilization/Forecast forms filed with NeuStar, Inc. as of April 15, 2003 ( $95 \%$ 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, 2002

| State/jurisdiction | Assigned |  | Intermediate |  | Reserved |  | Aging |  | Administrative |  | Available ${ }^{1}$ |  | $\begin{aligned} & \hline \text { Total } \\ & 000 \mathrm{~s} \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 000s | \% | 000s | \% | 000s | \% | 000s | \% | 000s | \% | 000s | \% |  |
| Alabama | 6,209 | 34.1 | 1,326 | 7.3 | 139 | 0.8 | 426 | 2.3 | 258 | 1.4 | 9,871 | 54.1 | 18,229 |
| Alaska | 1,115 | 23.0 | 33 | 0.7 | 26 | 0.5 | 64 | 1.3 | 40 | 0.8 | 3,566 | 73.6 | 4,845 |
| Arizona | 9,825 | 51.7 | 346 | 1.8 | 300 | 1.6 | 625 | 3.3 | 137 | 0.7 | 7,773 | 40.9 | 19,006 |
| Arkansas | 3,324 | 25.8 | 811 | 6.3 | 185 | 1.4 | 212 | 1.6 | 241 | 1.9 | 8,099 | 62.9 | 12,872 |
| California | 59,018 | 39.5 | 8,002 | 5.4 | 1,104 | 0.7 | 3,515 | 2.4 | 2,056 | 1.4 | 75,767 | 50.7 | 149,462 |
| Colorado | 9,622 | 50.0 | 68 | 0.4 | 232 | 1.2 | 707 | 3.7 | 226 | 1.2 | 8,385 | 43.6 | 19,241 |
| Connecticut | 5,816 | 39.9 | 697 | 4.8 | 127 | 0.9 | 286 | 2.0 | 125 | 0.9 | 7,534 | 51.7 | 14,585 |
| Delaware | 1,738 | 43.8 | 34 | 0.9 | 70 | 1.8 | 65 | 1.6 | 50 | 1.3 | 2,010 | 50.7 | 3,967 |
| District of Columbia | 2,985 | 59.1 | 16 | 0.3 | 341 | 6.8 | 143 | 2.8 | 26 | 0.5 | 1,538 | 30.5 | 5,049 |
| Florida | 28,010 | 44.7 | 3,488 | 5.6 | 615 | 1.0 | 1,949 | 3.1 | 961 | 1.5 | 27,573 | 44.0 | 62,596 |
| Georgia | 13,989 | 39.8 | 3,189 | 9.1 | 304 | 0.9 | 976 | 2.8 | 357 | 1.0 | 16,292 | 46.4 | 35,107 |
| Guam | Not shown to protect carrier confidentiality |  |  |  |  |  |  |  |  |  |  |  | 80 |
| Hawaii | 2,359 | 54.0 | 77 | 1.8 | 15 | 0.3 | 112 | 2.6 | 52 | 1.2 | 1,752 | 40.1 | 4,367 |
| Idaho | 2,175 | 37.9 | 15 | 0.3 | 55 | 1.0 | 135 | 2.3 | 76 | 1.3 | 3,289 | 57.2 | 5,745 |
| Illinois | 21,694 | 37.6 | 1,199 | 2.1 | 847 | 1.5 | 1,179 | 2.0 | 679 | 1.2 | 32,118 | 55.6 | 57,716 |
| Indiana | 8,485 | 32.7 | 453 | 1.7 | 398 | 1.5 | 449 | 1.7 | 298 | 1.1 | 15,841 | 61.1 | 25,925 |
| Iowa | 4,428 | 27.0 | 120 | 0.7 | 209 | 1.3 | 248 | 1.5 | 134 | 0.8 | 11,252 | 68.6 | 16,392 |
| Kansas | 3,588 | 23.8 | 991 | 6.6 | 78 | 0.5 | 211 | 1.4 | 160 | 1.1 | 10,065 | 66.7 | 15,093 |
| Kentucky | 6,029 | 32.3 | 703 | 3.8 | 175 | 0.9 | 354 | 1.9 | 221 | 1.2 | 11,175 | 59.9 | 18,658 |
| Louisiana | 6,199 | 33.4 | 1,742 | 9.4 | 166 | 0.9 | 426 | 2.3 | 174 | 0.9 | 9,877 | 53.2 | 18,583 |
| Maine | 2,008 | 37.5 | 15 | 0.3 | 66 | 1.2 | 82 | 1.5 | 27 | 0.5 | 3,152 | 58.9 | 5,350 |
| Maryland | 11,280 | 47.8 | 115 | 0.5 | 343 | 1.5 | 536 | 2.3 | 236 | 1.0 | 11,073 | 47.0 | 23,583 |
| Massachusetts | 15,911 | 44.3 | 144 | 0.4 | 697 | 1.9 | 754 | 2.1 | 203 | 0.6 | 18,170 | 50.6 | 35,879 |
| Michigan | 14,841 | 32.5 | 389 | 0.9 | 1,002 | 2.2 | 959 | 2.1 | 511 | 1.1 | 27,906 | 61.2 | 45,609 |
| Minnesota | 9,348 | 40.4 | 121 | 0.5 | 173 | 0.7 | 497 | 2.1 | 136 | 0.6 | 12,860 | 55.6 | 23,135 |
| Mississippi | 3,403 | 25.1 | 1,032 | 7.6 | 137 | 1.0 | 241 | 1.8 | 100 | 0.7 | 8,645 | 63.8 | 13,559 |
| Missouri | 8,549 | 31.5 | 739 | 2.7 | 761 | 2.8 | 471 | 1.7 | 236 | 0.9 | 16,351 | 60.3 | 27,107 |
| Montana | 1,179 | 22.4 | 50 | 0.9 | 46 | 0.9 | 76 | 1.4 | 25 | 0.5 | 3,889 | 73.9 | 5,265 |
| Nebraska | 2,815 | 29.7 | 226 | 2.4 | 44 | 0.5 | 161 | 1.7 | 58 | 0.6 | 6,168 | 65.1 | 9,472 |
| Nevada | 4,310 | 50.5 | 367 | 4.3 | 267 | 3.1 | 240 | 2.8 | 135 | 1.6 | 3,216 | 37.7 | 8,534 |
| New Hampshire | 2,506 | 40.3 | 18 | 0.3 | 67 | 1.1 | 95 | 1.5 | 39 | 0.6 | 3,486 | 56.1 | 6,212 |
| New Jersey | 16,601 | 43.0 | 314 | 0.8 | 619 | 1.6 | 794 | 2.1 | 253 | 0.7 | 19,993 | 51.8 | 38,574 |
| New Mexico | 2,737 | 43.6 | 50 | 0.8 | 39 | 0.6 | 161 | 2.6 | 47 | 0.7 | 3,241 | 51.7 | 6,274 |
| New York | 34,076 | 52.2 | 585 | 0.9 | 1,758 | 2.7 | 2,277 | 3.5 | 471 | 0.7 | 26,118 | 40.0 | 65,285 |
| North Carolina | 13,199 | 40.2 | 1,842 | 5.6 | 173 | 0.5 | 716 | 2.2 | 284 | 0.9 | 16,620 | 50.6 | 32,834 |
| North Dakota | 899 | 18.8 | 52 | 1.1 | 20 | 0.4 | 50 | 1.0 | 24 | 0.5 | 3,737 | 78.1 | 4,782 |
| Northern Marianas Is. |  |  |  |  | Not show | prote | arrier con | ntialit |  |  |  |  | 10 |
| Ohio | 17,023 | 35.4 | 614 | 1.3 | 599 | 1.2 | 927 | 1.9 | 406 | 0.8 | 28,477 | 59.3 | 48,046 |
| Oklahoma | 4,486 | 27.5 | 907 | 5.6 | 64 | 0.4 | 289 | 1.8 | 501 | 3.1 | 10,092 | 61.8 | 16,339 |
| Oregon | 5,962 | 44.3 | 74 | 0.6 | 101 | 0.8 | 373 | 2.8 | 140 | 1.0 | 6,797 | 50.5 | 13,447 |
| Pennsylvania | 20,117 | 38.5 | 301 | 0.6 | 818 | 1.6 | 990 | 1.9 | 404 | 0.8 | 29,566 | 56.6 | 52,196 |
| Puerto Rico | 1,413 | 40.5 | 0 | 0.0 | 26 | 0.7 | 163 | 4.7 | 5 | 0.1 | 1,883 | 54.0 | 3,490 |
| Rhode Island | 2,076 | 43.3 | 29 | 0.6 | 65 | 1.4 | 98 | 2.0 | 22 | 0.5 | 2,505 | 52.3 | 4,794 |
| South Carolina | 6,139 | 39.7 | 1,358 | 8.8 | 72 | 0.5 | 321 | 2.1 | 245 | 1.6 | 7,345 | 47.4 | 15,480 |
| South Dakota | 1,039 | 20.4 | 17 | 0.3 | 115 | 2.3 | 75 | 1.5 | 25 | 0.5 | 3,825 | 75.1 | 5,095 |
| Tennessee | 8,585 | 37.5 | 1,330 | 5.8 | 130 | 0.6 | 602 | 2.6 | 192 | 0.8 | 12,043 | 52.6 | 22,882 |
| Texas | 35,499 | 38.2 | 2,761 | 3.0 | 778 | 0.8 | 2,566 | 2.8 | 2,319 | 2.5 | 48,935 | 52.7 | 92,859 |
| US Virgin Is. | 129 | 44.2 | 10 | 3.4 | 30 | 10.3 | 12 | 4.1 | 2 | 0.7 | 109 | 37.3 | 292 |
| Utah | 4,630 | 44.6 | 46 | 0.4 | 91 | 0.9 | 341 | 3.3 | 96 | 0.9 | 5,166 | 49.8 | 10,370 |
| Vermont | 991 | 21.1 | 3 | 0.1 | 55 | 1.2 | 28 | 0.6 | 128 | 2.7 | 3,501 | 74.4 | 4,706 |
| Virginia | 14,096 | 51.3 | 161 | 0.6 | 446 | 1.6 | 700 | 2.5 | 235 | 0.9 | 11,822 | 43.1 | 27,460 |
| Washington | 9,986 | 43.5 | 620 | 2.7 | 318 | 1.4 | 659 | 2.9 | 267 | 1.2 | 11,117 | 48.4 | 22,967 |
| West Virginia | 2,084 | 36.3 | 40 | 0.7 | 54 | 0.9 | 107 | 1.9 | 37 | 0.6 | 3,413 | 59.5 | 5,734 |
| Wisconsin | 7,920 | 33.2 | 157 | 0.7 | 434 | 1.8 | 424 | 1.8 | 299 | 1.3 | 14,595 | 61.2 | 23,830 |
| Wyoming | 719 | 29.3 | 4 | 0.2 | 16 | 0.7 | 43 | 1.8 | 36 | 1.5 | 1,636 | 66.7 | 2,454 |
| Totals | 483,212 | 39.2 | 37,801 | 3.1 | 15,810 | 1.3 | 28,919 | 2.3 | 14,422 | 1.2 | 651,259 | 52.9 | 1,231,423 |

Source: Numbering Resource Utilization/Forecast forms filed with NeuStar as of April 15, 2003.
${ }^{1}$ 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, $200 \mathbf{2}^{1}$

|  |  |  |  | Paging |
| :--- | ---: | ---: | ---: | ---: |
| State/jurisdiction | ILEC $^{2}$ | Cellular/PCS | Total |  |
| Alabama | 27 | CLEC $^{2}$ | Carriers |  |

Source: Numbering Resource Utilization/Forecast forms filed with NeuStar as of April 15, 2003.
${ }^{1}$ 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, 2002

| Area Code | State/Jurisdiction | Area Code Opened | Assigned | Intermediate | Reserved | Aging | Admin | Available | OCNs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 201 | New Jersey | Jan-47 | 47.6\% | 0.6\% | 1.3\% | 2.2\% | 0.5\% | 47.7\% | 43 |
| 202 | District of Columbia | Jan-47 | 59.1\% | 0.3\% | 6.7\% | 2.8\% | 0.5\% | 30.5\% | 36 |
| 203 | Connecticut | Jan-47 | 42.3\% | 5.7\% | 1.1\% | 2.1\% | 0.8\% | 48.0\% | 37 |
| 205 | Alabama | Jan-47 | 41.4\% | 6.3\% | 0.5\% | 2.7\% | 1.2\% | 48.0\% | 41 |
| 206 | Washington | Jan-47 | 58.5\% | 0.9\% | 0.8\% | 4.1\% | 1.6\% | 34.0\% | 35 |
| 207 | Maine | Jan-47 | 37.5\% | 0.3\% | 1.2\% | 1.5\% | 0.5\% | 58.9\% | 48 |
| 208 | Idaho | Jan-47 | 37.9\% | 0.3\% | 1.0\% | 2.4\% | 1.3\% | 57.2\% | 55 |
| 209 | California | Jan-58 | 31.8\% | 6.2\% | 0.5\% | 1.7\% | 1.4\% | 58.3\% | 42 |
| 210 | Texas | Nov-92 | 51.7\% | 3.3\% | 0.7\% | 4.0\% | 2.2\% | 38.1\% | 37 |
| 212 | New York | Jan-47 | 76.6\% | 0.3\% | 6.2\% | 4.2\% | 1.3\% | 11.5\% | 26 |
| 213 | California | Jan-47 | 34.7\% | 5.7\% | 1.2\% | 2.5\% | 2.1\% | 53.8\% | 45 |
| 214 | Texas | Jan-47 | 50.3\% | 0.7\% | 0.6\% | 3.5\% | 1.8\% | 43.1\% | 51 |
| 215 | Pennsylvania | Jan-47 | 56.3\% | 1.2\% | 2.7\% | 3.0\% | 0.9\% | 35.9\% | 33 |
| 216 | Ohio | Jan-47 | 40.1\% | 1.6\% | 1.7\% | 2.4\% | 0.7\% | 53.6\% | 34 |
| 217 | Illinois | Jan-47 | 25.2\% | 0.7\% | 1.5\% | 1.0\% | 1.7\% | 69.9\% | 46 |
| 218 | Minnesota | Jan-47 | 23.1\% | 0.6\% | 0.3\% | 1.0\% | 0.4\% | 74.7\% | 62 |
| 219 | Indiana | Jan-47 | 39.9\% | 3.9\% | 1.5\% | 2.1\% | 1.3\% | 51.3\% | 31 |
| 224 | Illinois | Jan-02 | 22.8\% | 0.1\% | 2.9\% | 0.8\% | 0.4\% | 73.2\% | 8 |
| 225 | Louisiana | Aug-98 | 36.0\% | 12.0\% | 0.4\% | 2.3\% | 0.9\% | 48.4\% | 31 |
| 228 | Mississippi | Sep-97 | 27.6\% | 5.3\% | 0.4\% | 2.1\% | 1.6\% | 62.9\% | 28 |
| 229 | Georgia | Aug-00 | 25.4\% | 12.0\% | 0.3\% | 1.6\% | 0.7\% | 60.0\% | 34 |
| 231 | Michigan | Jun-99 | 19.8\% | 0.4\% | 0.7\% | 2.6\% | 1.0\% | 75.5\% | 29 |
| 234 | Ohio | Oct-00 | 0.9\% | 0.0\% | 0.0\% | 0.0\% | 0.5\% | 98.6\% | 5 |
| 239 | Florida | Mar-02 | 54.9\% | 1.1\% | 0.0\% | 2.5\% | 2.3\% | 39.3\% | 16 |
| 240 | Maryland | Jun-97 | 24.3\% | 0.4\% | 1.0\% | 1.1\% | 1.3\% | 71.9\% | 35 |
| 248 | Michigan | May-97 | 41.5\% | 1.1\% | 1.5\% | 2.4\% | 1.1\% | 52.5\% | 34 |
| 251 | Alabama | Jun-01 | 33.4\% | 10.8\% | 1.2\% | 2.2\% | 3.7\% | 48.7\% | 34 |
| 252 | North Carolina | Mar-98 | 36.2\% | 0.9\% | 0.1\% | 1.5\% | 0.3\% | 61.0\% | 28 |
| 253 | Washington | Apr-97 | 45.9\% | 7.0\% | 1.0\% | 3.0\% | 1.1\% | 42.0\% | 34 |
| 254 | Texas | May-97 | 29.8\% | 2.8\% | 0.4\% | 2.2\% | 2.2\% | 62.6\% | 41 |
| 256 | Alabama | Mar-98 | 31.6\% | 7.4\% | 0.3\% | 2.3\% | 1.0\% | 57.4\% | 42 |
| 260 | Indiana | Jan-02 | 33.5\% | 0.5\% | 0.9\% | 1.1\% | 1.6\% | 62.3\% | 26 |
| 262 | Wisconsin | Sep-99 | 30.7\% | 0.3\% | 1.7\% | 1.7\% | 0.8\% | 64.8\% | 38 |
| 267 | Pennsylvania | Jul-99 | 15.9\% | 0.5\% | 0.5\% | 0.9\% | 0.8\% | 81.4\% | 34 |
| 269 | Michigan | Jul-02 | 37.0\% | 1.5\% | 0.9\% | 2.4\% | 1.4\% | 56.9\% | 31 |
| 270 | Kentucky | Apr-99 | 25.5\% | 4.6\% | 0.7\% | 1.8\% | 1.0\% | 66.4\% | 44 |
| 276 | Virginia | Sep-01 | 31.5\% | 0.9\% | 0.4\% | 1.3\% | 0.4\% | 65.5\% | 24 |
| 281 | Texas | Nov-96 | 45.2\% | 3.6\% | 0.5\% | 3.3\% | 2.5\% | 44.8\% | 38 |
| 301 | Maryland | Jan-47 | 59.8\% | 0.6\% | 1.6\% | 3.0\% | 0.8\% | 34.3\% | 32 |
| 302 | Delaware | Jan-47 | 43.8\% | 0.9\% | 1.8\% | 1.6\% | 1.3\% | 50.7\% | 29 |
| 303 | Colorado | Jan-47 | 65.1\% | 0.2\% | 1.3\% | 4.3\% | 1.7\% | 27.4\% | 36 |
| 304 | West Virginia | Jan-47 | 36.3\% | 0.7\% | 0.9\% | 1.9\% | 0.6\% | 59.5\% | 43 |
| 305 | Florida | Jan-47 | 50.2\% | 10.3\% | 0.8\% | 4.2\% | 1.0\% | 33.6\% | 38 |
| 307 | Wyoming | Jan-47 | 29.3\% | 0.2\% | 0.6\% | 1.8\% | 1.5\% | 66.7\% | 31 |
| 308 | Nebraska | Jan-55 | 16.8\% | 3.2\% | 0.3\% | 0.9\% | 0.7\% | 78.1\% | 41 |
| 309 | Illinois | Jan-57 | 28.6\% | 8.7\% | 0.8\% | 1.2\% | 1.0\% | 59.7\% | 51 |
| 310 | California | Nov-91 | 50.6\% | 5.9\% | 0.6\% | 3.1\% | 1.1\% | 38.8\% | 46 |
| 312 | Illinois | Jan-47 | 42.0\% | 2.8\% | 2.4\% | 2.2\% | 2.0\% | 48.6\% | 39 |
| 313 | Michigan | Jan-47 | 38.7\% | 1.4\% | 4.1\% | 3.3\% | 1.9\% | 50.5\% | 31 |
| 314 | Missouri | Jan-47 | 49.3\% | 3.1\% | 2.6\% | 2.5\% | 1.8\% | 40.8\% | 34 |
| 315 | New York | Jan-47 | 35.1\% | 0.5\% | 3.5\% | 2.8\% | 0.7\% | 57.4\% | 42 |
| 316 | Kansas | Jan-47 | 32.3\% | 4.8\% | 0.7\% | 2.0\% | 1.8\% | 58.3\% | 28 |
| 317 | Indiana | Jan-47 | 42.7\% | 1.9\% | 2.4\% | 2.9\% | 1.2\% | 48.8\% | 38 |
| 318 | Louisiana | Jan-57 | 29.6\% | 7.4\% | 0.6\% | 2.0\% | 0.9\% | 59.5\% | 39 |
| 319 | Iowa | Jan-47 | 32.4\% | 1.5\% | 0.4\% | 2.0\% | 1.5\% | 62.2\% | 59 |

Table 6
Telephone Number Utilization by Area Code as of December 31, 2002

| Area Code | State/Jurisdiction | Area Code Opened | Assigned | Intermediate | Reserved | Aging | Admin | Available | OCNs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 320 | Minnesota | Mar-96 | 25.3\% | 0.5\% | 0.5\% | 1.8\% | 0.4\% | 71.5\% | 61 |
| 321 | Florida | Nov-99 | 39.6\% | 4.4\% | 1.4\% | 2.3\% | 0.8\% | 51.5\% | 38 |
| 323 | California | Jun-98 | 37.4\% | 4.3\% | 0.3\% | 3.1\% | 1.1\% | 53.8\% | 44 |
| 325 | Texas | Apr-03 | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 0.0\% | 100.0\% | 5 |
| 330 | Ohio | Mar-96 | 36.8\% | 1.2\% | 1.3\% | 1.9\% | 0.9\% | 58.0\% | 36 |
| 334 | Alabama | Jan-95 | 28.9\% | 6.3\% | 1.4\% | 2.1\% | 0.9\% | 60.4\% | 44 |
| 336 | North Carolina | Dec-97 | 40.8\% | 7.5\% | 0.5\% | 2.3\% | 0.8\% | 48.1\% | 41 |
| 337 | Louisiana | Oct-99 | 30.7\% | 8.3\% | 0.2\% | 2.3\% | 0.8\% | 57.7\% | 36 |
| 339 | Massachusetts | May-01 | 13.2\% | 0.2\% | 0.4\% | 0.3\% | 1.1\% | 84.9\% | 15 |
| 340 | US Virgin Islands | Jun-97 | 44.1\% | 3.5\% | 10.3\% | 4.2\% | 0.7\% | 37.2\% | 5 |
| 347 | New York | Oct-99 | 40.6\% | 1.0\% | 1.0\% | 2.5\% | 0.5\% | 54.6\% | 24 |
| 351 | Massachusetts | May-01 |  | Not show | n to protect | rier conf | tiality |  | 1 |
| 352 | Florida | Dec-95 | 38.8\% | 3.3\% | 0.2\% | 2.1\% | 0.8\% | 54.8\% | 33 |
| 360 | Washington | Jan-95 | 38.8\% | 0.6\% | 2.6\% | 2.5\% | 1.2\% | 54.4\% | 54 |
| 361 | Texas | Feb-99 | 28.7\% | 2.4\% | 0.5\% | 2.2\% | 3.8\% | 62.5\% | 31 |
| 386 | Florida | Feb-01 | 34.9\% | 7.3\% | 0.2\% | 2.4\% | 0.6\% | 54.6\% | 33 |
| 401 | Rhode Island | Jan-47 | 43.3\% | 0.6\% | 1.4\% | 2.0\% | 0.5\% | 52.2\% | 28 |
| 402 | Nebraska | Jan-47 | 34.8\% | 2.1\% | 0.5\% | 2.0\% | 0.6\% | 60.0\% | 50 |
| 404 | Georgia | Jan-47 | 53.0\% | 6.7\% | 0.7\% | 3.7\% | 2.2\% | 33.8\% | 40 |
| 405 | Oklahoma | Jan-47 | 36.0\% | 5.4\% | 0.5\% | 2.0\% | 5.9\% | 50.2\% | 42 |
| 406 | Montana | Jan-47 | 22.4\% | 1.0\% | 0.9\% | 1.5\% | 0.5\% | 73.9\% | 42 |
| 407 | Florida | Apr-88 | 48.3\% | 4.6\% | 0.9\% | 3.4\% | 0.8\% | 41.9\% | 35 |
| 408 | California | Jan-59 | 49.7\% | 5.2\% | 0.7\% | 3.0\% | 0.8\% | 40.5\% | 45 |
| 409 | Texas | Nov-82 | 30.8\% | 12.2\% | 0.5\% | 2.4\% | 2.6\% | 51.5\% | 34 |
| 410 | Maryland | Oct-91 | 64.8\% | 0.5\% | 2.1\% | 3.0\% | 0.9\% | 28.7\% | 32 |
| 412 | Pennsylvania | Jan-47 | 43.9\% | 0.3\% | 1.9\% | 2.2\% | 0.8\% | 51.0\% | 34 |
| 413 | Massachusetts | Jan-47 | 46.9\% | 0.3\% | 1.5\% | 1.3\% | 0.3\% | 49.7\% | 36 |
| 414 | Wisconsin | Jan-47 | 47.9\% | 1.9\% | 2.7\% | 2.8\% | 1.7\% | 43.0\% | 29 |
| 415 | California | Jan-47 | 42.7\% | 3.8\% | 0.8\% | 2.6\% | 1.1\% | 48.9\% | 41 |
| 417 | Missouri | Jan-50 | 24.5\% | 4.2\% | 5.8\% | 1.3\% | 0.8\% | 63.5\% | 53 |
| 419 | Ohio | Jan-47 | 30.2\% | 2.8\% | 0.9\% | 1.4\% | 1.0\% | 63.7\% | 57 |
| 423 | Tennessee | Sep-95 | 35.4\% | 4.7\% | 0.4\% | 2.0\% | 0.8\% | 56.7\% | 45 |
| 425 | Washington | Apr-97 | 34.6\% | 8.0\% | 1.2\% | 2.5\% | 0.9\% | 52.9\% | 36 |
| 432 | Texas | Apr-03 | Not shown to protect carrier confidentiality |  |  |  |  |  | 3 |
| 434 | Virginia | Jun-01 | 40.5\% | 1.0\% | 2.4\% | 1.8\% | 0.6\% | 53.7\% | 24 |
| 435 | Utah | Sep-97 | 21.8\% | 1.0\% | 1.3\% | 1.5\% | 0.7\% | 73.7\% | 44 |
| 440 | Ohio | Aug-97 | 31.4\% | 1.3\% | 1.0\% | 1.7\% | 0.4\% | 64.3\% | 40 |
| 443 | Maryland | Jun-97 | 23.4\% | 0.4\% | 0.6\% | 0.9\% | 1.4\% | 73.4\% | 36 |
| 469 | Texas | Jul-99 | 24.6\% | 0.7\% | 1.6\% | 1.8\% | 2.1\% | 69.3\% | 34 |
| 478 | Georgia | Aug-00 | 34.2\% | 12.6\% | 0.9\% | 2.1\% | 0.9\% | 49.2\% | 35 |
| 479 | Arkansas | Jan-02 | 32.0\% | 3.7\% | 1.8\% | 2.0\% | 3.0\% | 57.5\% | 28 |
| 480 | Arizona | Mar-99 | 66.2\% | 0.5\% | 1.4\% | 4.7\% | 0.7\% | 26.5\% | 32 |
| 484 | Pennsylvania | Jun-99 | 10.9\% | 0.3\% | 1.0\% | 0.4\% | 0.8\% | 86.5\% | 44 |
| 501 | Arkansas | Jan-47 | 30.7\% | 7.5\% | 0.7\% | 2.0\% | 1.9\% | 57.3\% | 33 |
| 502 | Kentucky | Jan-47 | 40.3\% | 6.4\% | 0.3\% | 2.4\% | 1.4\% | 49.2\% | 35 |
| 503 | Oregon | Jan-47 | 53.6\% | 0.8\% | 0.7\% | 3.4\% | 1.2\% | 40.2\% | 45 |
| 504 | Louisiana | Jan-47 | 43.9\% | 10.3\% | 0.5\% | 2.9\% | 1.5\% | 40.9\% | 34 |
| 505 | New Mexico | Jan-47 | 43.6\% | 0.8\% | 0.6\% | 2.6\% | 0.8\% | 51.7\% | 46 |
| 507 | Minnesota | Jan-54 | 24.6\% | 0.1\% | 0.5\% | 1.4\% | 0.4\% | 73.0\% | 62 |
| 508 | Massachusetts | Jul-88 | 52.9\% | 0.3\% | 2.1\% | 2.4\% | 0.8\% | 41.5\% | 41 |
| 509 | Washington | Jan-57 | 38.5\% | 0.3\% | 0.8\% | 2.3\% | 1.0\% | 57.2\% | 43 |
| 510 | California | Sep-91 | 39.8\% | 5.9\% | 0.5\% | 2.8\% | 1.0\% | 50.0\% | 39 |
| 512 | Texas | Jan-47 | 49.3\% | 2.2\% | 1.5\% | 3.3\% | 1.5\% | 42.2\% | 41 |
| 513 | Ohio | Jan-47 | 52.0\% | 0.2\% | 1.4\% | 3.2\% | 0.9\% | 42.3\% | 31 |
| 515 | Iowa | Jan-47 | 41.9\% | 0.6\% | 0.9\% | 2.0\% | 0.9\% | 53.6\% | 50 |

Table 6
Telephone Number Utilization by Area Code as of December 31, 2002

| Area Code | State/Jurisdiction | Area Code Opened | Assigned | Intermediate | Reserved | Aging | Admin | Available | OCNs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 516 | New York | Jan-51 | 54.0\% | 1.0\% | 1.9\% | 3.5\% | 0.7\% | 38.9\% | 40 |
| 517 | Michigan | Jan-47 | 32.5\% | 0.6\% | 3.0\% | 1.6\% | 1.1\% | 61.1\% | 43 |
| 518 | New York | Jan-47 | 40.1\% | 0.2\% | 1.9\% | 2.1\% | 0.7\% | 55.0\% | 43 |
| 520 | Arizona | Mar-95 | 47.4\% | 1.3\% | 1.5\% | 3.0\% | 0.6\% | 46.2\% | 41 |
| 530 | California | Nov-97 | 27.0\% | 8.0\% | 0.9\% | 1.2\% | 1.2\% | 61.7\% | 50 |
| 540 | Virginia | Jul-95 | 44.5\% | 0.2\% | 1.4\% | 2.3\% | 1.3\% | 50.3\% | 44 |
| 541 | Oregon | Nov-95 | 35.5\% | 0.3\% | 0.8\% | 2.2\% | 0.9\% | 60.4\% | 56 |
| 551 | New Jersey | Dec-01 | 14.8\% | 0.4\% | 0.1\% | 1.0\% | 1.3\% | 82.4\% | 5 |
| 559 | California | Nov-98 | 29.8\% | 7.4\% | 0.5\% | 1.7\% | 1.6\% | 58.9\% | 33 |
| 561 | Florida | May-96 | 48.5\% | 8.5\% | 1.5\% | 3.3\% | 1.3\% | 36.9\% | 37 |
| 562 | California | Jan-97 | 39.2\% | 2.3\% | 0.4\% | 2.6\% | 1.7\% | 53.9\% | 44 |
| 563 | Iowa | Mar-01 | 28.3\% | 0.8\% | 0.5\% | 2.0\% | 0.5\% | 67.9\% | 50 |
| 567 | Ohio | Jan-02 | 0.2\% | 0.0\% | 0.0\% | 0.0\% | 1.2\% | 98.6\% | 10 |
| 570 | Pennsylvania | Dec-98 | 37.9\% | 0.4\% | 2.2\% | 2.7\% | 0.8\% | 55.9\% | 44 |
| 571 | Virginia | Mar-00 | 35.6\% | 0.2\% | 1.5\% | 1.8\% | 0.2\% | 60.5\% | 25 |
| 573 | Missouri | Jan-96 | 25.3\% | 2.3\% | 4.2\% | 1.6\% | 0.5\% | 66.1\% | 44 |
| 574 | Indiana | Jan-02 | 34.9\% | 0.9\% | 1.4\% | 1.5\% | 0.8\% | 60.5\% | 29 |
| 580 | Oklahoma | Nov-97 | 16.2\% | 5.6\% | 0.2\% | 0.9\% | 1.1\% | 76.0\% | 46 |
| 585 | New York | Nov-01 | 46.0\% | 0.3\% | 4.1\% | 1.0\% | 0.1\% | 48.4\% | 33 |
| 586 | Michigan | Sep-01 | 34.5\% | 0.4\% | 3.9\% | 2.1\% | 0.4\% | 58.6\% | 29 |
| 601 | Mississippi | Jan-47 | 27.2\% | 8.4\% | 1.0\% | 1.9\% | 0.7\% | 60.8\% | 47 |
| 602 | Arizona | Jan-47 | 58.8\% | 1.8\% | 0.9\% | 3.5\% | 0.9\% | 34.1\% | 38 |
| 603 | New Hampshire | Jan-47 | 40.3\% | 0.3\% | 1.1\% | 1.5\% | 0.6\% | 56.1\% | 49 |
| 605 | South Dakota | Jan-47 | 20.4\% | 0.3\% | 2.3\% | 1.5\% | 0.5\% | 75.1\% | 68 |
| 606 | Kentucky | Jan-55 | 29.1\% | 2.3\% | 1.4\% | 1.5\% | 1.5\% | 64.2\% | 34 |
| 607 | New York | Jan-54 | 35.4\% | 0.2\% | 1.0\% | 1.9\% | 0.3\% | 61.2\% | 32 |
| 608 | Wisconsin | Jan-55 | 34.2\% | 0.8\% | 2.0\% | 1.7\% | 1.5\% | 59.8\% | 61 |
| 609 | New Jersey | Jan-57 | 44.8\% | 0.9\% | 1.2\% | 2.1\% | 0.8\% | 50.2\% | 38 |
| 610 | Pennsylvania | Jan-94 | 54.1\% | 0.5\% | 1.8\% | 2.2\% | 0.6\% | 40.7\% | 51 |
| 612 | Minnesota | Jan-47 | 58.9\% | 0.5\% | 0.8\% | 3.2\% | 1.0\% | 35.5\% | 39 |
| 614 | Ohio | Jan-47 | 42.0\% | 1.1\% | 1.7\% | 2.3\% | 0.8\% | 52.1\% | 29 |
| 615 | Tennessee | Jan-54 | 42.5\% | 7.0\% | 0.7\% | 2.9\% | 0.9\% | 45.8\% | 40 |
| 616 | Michigan | Jan-47 | 36.0\% | 1.4\% | 2.8\% | 2.0\% | 1.3\% | 56.5\% | 31 |
| 617 | Massachusetts | Jan-47 | 56.8\% | 0.2\% | 3.5\% | 3.3\% | 0.7\% | 35.5\% | 42 |
| 618 | Illinois | Jan-47 | 24.5\% | 0.4\% | 1.7\% | 1.2\% | 1.2\% | 71.1\% | 50 |
| 619 | California | Jan-82 | 45.4\% | 5.4\% | 0.7\% | 3.0\% | 1.3\% | 44.2\% | 38 |
| 620 | Kansas | Feb-01 | 12.1\% | 9.4\% | 0.2\% | 0.8\% | 0.2\% | 77.3\% | 49 |
| 623 | Arizona | Mar-99 | 51.4\% | 0.9\% | 1.5\% | 3.7\% | 1.1\% | 41.4\% | 29 |
| 626 | California | Jun-97 | 38.9\% | 5.2\% | 0.7\% | 2.2\% | 1.4\% | 51.6\% | 43 |
| 630 | Illinois | Aug-96 | 41.6\% | 2.0\% | 1.2\% | 2.6\% | 0.9\% | 51.7\% | 39 |
| 631 | New York | Nov-99 | 42.4\% | 0.6\% | 2.1\% | 3.5\% | 0.5\% | 50.9\% | 41 |
| 636 | Missouri | May-99 | 26.4\% | 1.4\% | 1.8\% | 1.3\% | 1.0\% | 68.1\% | 32 |
| 641 | Iowa | Jul-00 | 15.5\% | 0.3\% | 0.9\% | 1.0\% | 0.8\% | 81.6\% | 54 |
| 646 | New York | Jul-99 | 59.7\% | 0.9\% | 5.1\% | 3.9\% | 0.7\% | 29.7\% | 31 |
| 650 | California | Aug-97 | 36.4\% | 4.9\% | 0.6\% | 2.0\% | 0.9\% | 55.2\% | 36 |
| 651 | Minnesota | Jul-98 | 60.2\% | 0.5\% | 1.0\% | 2.7\% | 0.8\% | 34.8\% | 41 |
| 660 | Missouri | Oct-97 | 13.6\% | 1.9\% | 1.2\% | 1.0\% | 0.3\% | 82.0\% | 45 |
| 661 | California | Feb-99 | 29.9\% | 7.8\% | 2.6\% | 1.7\% | 1.4\% | 56.7\% | 41 |
| 662 | Mississippi | Apr-99 | 21.6\% | 7.4\% | 1.3\% | 1.5\% | 0.5\% | 67.7\% | 46 |
| 670 | Northern Marianas Is. | Jul-97 | Not shown to protect carrier confidentiality |  |  |  |  |  | 1 |
| 671 | Guam | Jul-97 | Not shown to protect carrier confidentiality |  |  |  |  |  | 3 |
| 678 | Georgia | Jan-98 | 31.1\% | 3.1\% | 0.8\% | 2.1\% | 0.6\% | 62.2\% | 51 |
| 682 | Texas | Oct-00 | 14.0\% | 0.4\% | 0.4\% | 0.9\% | 3.7\% | 80.6\% | 12 |
| 701 | North Dakota | Jan-47 | 18.8\% | 1.1\% | 0.4\% | 1.0\% | 0.5\% | 78.2\% | 58 |
| 702 | Nevada | Jan-47 | 55.7\% | 3.2\% | 0.9\% | 3.8\% | 1.3\% | 35.1\% | 31 |

Table 6
Telephone Number Utilization by Area Code as of December 31, 2002

| Area Code | State/Jurisdiction | Area Code Opened | Assigned | Intermediate | Reserved | Aging | Admin | Available | OCNs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 703 | Virginia | Jan-47 | 63.0\% | 0.3\% | 2.0\% | 3.6\% | 0.7\% | 30.3\% | 36 |
| 704 | North Carolina | Jan-47 | 42.3\% | 8.5\% | 0.7\% | 2.6\% | 1.1\% | 44.8\% | 46 |
| 706 | Georgia | May-92 | 35.5\% | 11.3\% | 1.1\% | 2.3\% | 0.8\% | 49.1\% | 62 |
| 707 | California | Jan-59 | 30.8\% | 5.2\% | 0.8\% | 1.4\% | 1.3\% | 60.6\% | 46 |
| 708 | Illinois | Nov-89 | 37.0\% | 1.1\% | 1.8\% | 2.6\% | 0.9\% | 56.5\% | 38 |
| 712 | Iowa | Jan-47 | 19.2\% | 0.5\% | 3.2\% | 0.9\% | 0.3\% | 75.9\% | 86 |
| 713 | Texas | Jan-47 | 55.1\% | 4.5\% | 1.3\% | 3.5\% | 3.5\% | 32.0\% | 34 |
| 714 | California | Jan-51 | 43.8\% | 4.6\% | 0.6\% | 2.7\% | 2.3\% | 46.0\% | 47 |
| 715 | Wisconsin | Jan-47 | 25.4\% | 0.4\% | 0.5\% | 1.2\% | 1.4\% | 71.1\% | 81 |
| 716 | New York | Jan-47 | 49.8\% | 1.1\% | 2.1\% | 3.0\% | 1.3\% | 42.7\% | 33 |
| 717 | Pennsylvania | Jan-47 | 48.5\% | 0.7\% | 1.5\% | 2.3\% | 0.8\% | 46.2\% | 37 |
| 718 | New York | Sep-84 | 65.1\% | 0.1\% | 2.6\% | 6.6\% | 0.8\% | 24.8\% | 33 |
| 719 | Colorado | Mar-88 | 43.4\% | 0.5\% | 0.6\% | 3.4\% | 0.7\% | 51.4\% | 41 |
| 720 | Colorado | Jun-98 | 41.3\% | 0.7\% | 2.5\% | 4.5\% | 1.1\% | 49.8\% | 24 |
| 724 | Pennsylvania | Feb-98 | 30.9\% | 0.5\% | 0.9\% | 1.4\% | 0.4\% | 65.9\% | 50 |
| 727 | Florida | Jul-98 | 50.8\% | 0.8\% | 0.9\% | 3.6\% | 3.6\% | 40.2\% | 38 |
| 731 | Tennessee | Feb-01 | 22.3\% | 5.2\% | 0.2\% | 1.6\% | 0.5\% | 70.2\% | 32 |
| 732 | New Jersey | Jun-97 | 46.7\% | 0.8\% | 2.3\% | 2.4\% | 0.7\% | 47.1\% | 38 |
| 734 | Michigan | Dec-97 | 34.1\% | 0.4\% | 1.7\% | 1.7\% | 0.7\% | 61.4\% | 38 |
| 740 | Ohio | Dec-97 | 25.3\% | 1.0\% | 0.9\% | 1.3\% | 0.9\% | 70.6\% | 39 |
| 754 | Florida | Aug-01 | Not shown to protect carrier confidentiality |  |  |  |  |  | 3 |
| 757 | Virginia | Jul-96 | 54.1\% | 0.9\% | 1.2\% | 2.5\% | 0.9\% | 40.5\% | 28 |
| 760 | California | Mar-97 | 37.4\% | 5.2\% | 0.7\% | 2.1\% | 1.7\% | 53.0\% | 48 |
| 763 | Minnesota | Feb-00 | 46.5\% | 0.7\% | 1.3\% | 2.7\% | 0.6\% | 48.2\% | 44 |
| 765 | Indiana | Feb-97 | 24.1\% | 2.4\% | 1.1\% | 1.1\% | 1.1\% | 70.2\% | 51 |
| 770 | Georgia | Aug-95 | 51.2\% | 11.8\% | 0.5\% | 3.9\% | 0.9\% | 31.7\% | 35 |
| 772 | Florida | Feb-02 | 38.5\% | 6.6\% | 1.7\% | 2.4\% | 2.7\% | 48.0\% | 29 |
| 773 | Illinois | Oct-96 | 47.6\% | 1.5\% | 1.3\% | 3.6\% | 0.9\% | 45.1\% | 37 |
| 774 | Massachusetts | May-01 | 6.8\% | 0.2\% | 0.7\% | 0.2\% | 0.3\% | 91.7\% | 24 |
| 775 | Nevada | Dec-98 | 44.2\% | 5.6\% | 5.8\% | 1.7\% | 1.9\% | 40.8\% | 34 |
| 781 | Massachusetts | Sep-97 | 39.3\% | 0.7\% | 1.2\% | 2.0\% | 0.4\% | 56.5\% | 41 |
| 785 | Kansas | Jul-97 | 19.5\% | 7.6\% | 0.5\% | 1.1\% | 1.2\% | 70.0\% | 41 |
| 786 | Florida | Mar-98 | 37.5\% | 2.6\% | 1.5\% | 2.8\% | 0.9\% | 54.7\% | 32 |
| 787 | Puerto Rico | Mar-96 | 42.2\% | 0.0\% | 0.8\% | 5.0\% | 0.2\% | 51.9\% | 8 |
| 801 | Utah | Jan-47 | 56.3\% | 0.2\% | 0.6\% | 4.2\% | 1.0\% | 37.6\% | 31 |
| 802 | Vermont | Jan-47 | 21.1\% | 0.1\% | 1.2\% | 0.6\% | 2.7\% | 74.4\% | 29 |
| 803 | South Carolina | Jan-47 | 40.2\% | 10.6\% | 0.5\% | 2.2\% | 1.6\% | 44.9\% | 55 |
| 804 | Virginia | Jun-73 | 52.0\% | 0.7\% | 1.8\% | 2.2\% | 1.0\% | 42.3\% | 31 |
| 805 | California | Jan-57 | 38.8\% | 4.8\% | 0.5\% | 1.9\% | 1.7\% | 52.2\% | 39 |
| 806 | Texas | Jan-57 | 23.1\% | 3.6\% | 0.5\% | 1.9\% | 2.2\% | 68.7\% | 46 |
| 808 | Hawaii | Jan-57 | 54.0\% | 1.8\% | 0.3\% | 2.6\% | 1.2\% | 40.1\% | 13 |
| 810 | Michigan | Dec-93 | 29.2\% | 1.2\% | 1.9\% | 2.0\% | 1.1\% | 64.5\% | 33 |
| 812 | Indiana | Jan-47 | 26.6\% | 0.9\% | 1.4\% | 1.3\% | 1.0\% | 68.8\% | 47 |
| 813 | Florida | Jan-53 | 54.6\% | 1.1\% | 1.5\% | 3.7\% | 2.6\% | 36.5\% | 41 |
| 814 | Pennsylvania | Jan-47 | 32.1\% | 0.5\% | 1.0\% | 1.3\% | 1.1\% | 63.9\% | 40 |
| 815 | Illinois | Jan-47 | 34.5\% | 2.0\% | 1.2\% | 1.5\% | 1.3\% | 59.4\% | 64 |
| 816 | Missouri | Jan-47 | 37.8\% | 2.8\% | 1.0\% | 2.1\% | 0.6\% | 55.7\% | 41 |
| 817 | Texas | Jan-53 | 39.8\% | 1.6\% | 0.9\% | 2.9\% | 0.8\% | 54.0\% | 51 |
| 818 | California | Jan-84 | 44.5\% | 5.9\% | 0.7\% | 2.6\% | 1.2\% | 45.2\% | 45 |
| 828 | North Carolina | Mar-98 | 36.1\% | 5.1\% | 0.6\% | 1.9\% | 1.1\% | 55.3\% | 41 |
| 830 | Texas | Jul-97 | 20.4\% | 1.3\% | 0.8\% | 1.7\% | 2.6\% | 73.2\% | 42 |
| 831 | California | Jul-98 | 29.7\% | 10.3\% | 1.1\% | 1.6\% | 1.6\% | 55.7\% | 34 |
| 832 | Texas | Jan-99 | 28.7\% | 0.7\% | 0.7\% | 1.9\% | 11.3\% | 56.7\% | 33 |
| 843 | South Carolina | Mar-98 | 40.4\% | 7.2\% | 0.4\% | 1.9\% | 1.6\% | 48.5\% | 44 |
| 845 | New York | Jun-00 | 45.8\% | 0.7\% | 1.9\% | 2.3\% | 0.7\% | 48.5\% | 44 |

Table 6
Telephone Number Utilization by Area Code as of December 31, 2002

| Area Code | State/Jurisdiction | Area Code Opened | Assigned | Intermediate | Reserved | Aging | Admin | Available | OCNs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 847 | Illinois | Jan-96 | 50.9\% | 1.2\% | 1.1\% | 2.2\% | 0.8\% | 43.9\% | 40 |
| 848 | New Jersey | Dec-01 | 15.7\% | 0.0\% | 0.1\% | 1.2\% | 0.4\% | 82.6\% | 8 |
| 850 | Florida | Jun-97 | 38.3\% | 5.0\% | 1.2\% | 2.6\% | 1.2\% | 51.7\% | 34 |
| 856 | New Jersey | Jun-99 | 35.0\% | 0.8\% | 1.0\% | 1.7\% | 0.6\% | 60.9\% | 43 |
| 857 | Massachusetts | May-01 | 11.2\% | 0.5\% | 0.6\% | 1.0\% | 1.0\% | 85.6\% | 20 |
| 858 | California | Jun-99 | 42.9\% | 3.7\% | 0.7\% | 2.8\% | 1.4\% | 48.6\% | 33 |
| 859 | Kentucky | Apr-00 | 36.9\% | 1.4\% | 1.5\% | 1.8\% | 0.9\% | 57.6\% | 42 |
| 860 | Connecticut | Aug-95 | 37.5\% | 3.9\% | 0.6\% | 1.8\% | 0.9\% | 55.3\% | 33 |
| 862 | New Jersey | Dec-01 | 9.4\% | 0.0\% | 0.0\% | 1.0\% | 0.3\% | 89.3\% | 10 |
| 863 | Florida | Sep-99 | 32.8\% | 1.3\% | 0.6\% | 2.0\% | 1.7\% | 61.6\% | 32 |
| 864 | South Carolina | Dec-95 | 37.9\% | 8.6\% | 0.5\% | 2.1\% | 1.6\% | 49.3\% | 34 |
| 865 | Tennessee | Nov-99 | 45.3\% | 5.7\% | 0.7\% | 3.1\% | 1.2\% | 43.9\% | 33 |
| 870 | Arkansas | Apr-97 | 18.9\% | 6.8\% | 1.9\% | 1.2\% | 1.3\% | 70.0\% | 42 |
| 878 | Pennsylvania | Aug-01 | Not shown to protect carrier confidentiality |  |  |  |  |  | 0 |
| 901 | Tennessee | Jan-47 | 48.4\% | 7.4\% | 1.1\% | 4.1\% | 0.8\% | 38.2\% | 33 |
| 903 | Texas | Nov-90 | 28.1\% | 3.9\% | 0.5\% | 1.8\% | 1.4\% | 64.3\% | 55 |
| 904 | Florida | Jan-65 | 46.9\% | 8.3\% | 0.7\% | 3.2\% | 1.6\% | 39.4\% | 38 |
| 906 | Michigan | Jan-61 | 14.4\% | 0.5\% | 0.3\% | 0.7\% | 0.9\% | 83.3\% | 18 |
| 907 | Alaska | Jan-57 | 23.0\% | 0.7\% | 0.5\% | 1.3\% | 0.8\% | 73.6\% | 35 |
| 908 | New Jersey | Nov-90 | 34.0\% | 0.5\% | 1.1\% | 1.5\% | 0.6\% | 62.3\% | 41 |
| 909 | California | Nov-92 | 51.0\% | 4.7\% | 0.7\% | 2.8\% | 1.6\% | 39.2\% | 41 |
| 910 | North Carolina | Nov-93 | 37.4\% | 4.3\% | 0.6\% | 2.1\% | 0.9\% | 54.7\% | 41 |
| 912 | Georgia | Jan-54 | 31.3\% | 9.6\% | 2.0\% | 2.4\% | 0.8\% | 54.0\% | 45 |
| 913 | Kansas | Jan-47 | 41.6\% | 1.9\% | 1.0\% | 2.2\% | 1.6\% | 51.7\% | 35 |
| 914 | New York | Jan-47 | 47.3\% | 1.3\% | 1.4\% | 2.8\% | 0.8\% | 46.4\% | 44 |
| 915 | Texas | Jan-47 | 32.6\% | 2.7\% | 1.1\% | 2.4\% | 2.1\% | 59.2\% | 53 |
| 916 | California | Jan-47 | 43.3\% | 4.1\% | 0.7\% | 2.3\% | 1.1\% | 48.4\% | 39 |
| 917 | New York | Jan-92 | 57.2\% | 3.7\% | 1.0\% | 4.3\% | 0.4\% | 33.4\% | 28 |
| 918 | Oklahoma | Jan-53 | 29.5\% | 5.6\% | 0.5\% | 2.3\% | 2.3\% | 59.8\% | 59 |
| 919 | North Carolina | Jan-54 | 45.1\% | 5.2\% | 0.5\% | 2.3\% | 0.9\% | 46.0\% | 44 |
| 920 | Wisconsin | Jul-97 | 31.5\% | 0.3\% | 2.4\% | 1.8\% | 0.9\% | 63.1\% | 58 |
| 925 | California | Mar-98 | 32.7\% | 5.3\% | 0.8\% | 1.9\% | 1.2\% | 58.1\% | 36 |
| 928 | Arizona | Jun-01 | 31.1\% | 4.1\% | 3.0\% | 1.6\% | 0.4\% | 59.8\% | 46 |
| 931 | Tennessee | Sep-97 | 25.9\% | 4.3\% | 0.3\% | 1.7\% | 0.6\% | 67.2\% | 42 |
| 936 | Texas | Feb-00 | 33.0\% | 4.4\% | 0.7\% | 1.6\% | 1.2\% | 59.1\% | 33 |
| 937 | Ohio | Sep-96 | 34.0\% | 0.9\% | 1.5\% | 2.0\% | 0.9\% | 60.7\% | 33 |
| 939 | Puerto Rico | Sep-01 | Not shown to protect carrier confidentiality |  |  |  |  |  | 3 |
| 940 | Texas | May-97 | 25.5\% | 3.5\% | 1.2\% | 1.7\% | 2.0\% | 66.1\% | 52 |
| 941 | Florida | May-95 | 37.3\% | 2.5\% | 1.2\% | 2.7\% | 2.6\% | 53.7\% | 37 |
| 949 | California | Apr-98 | 42.6\% | 3.9\% | 1.0\% | 2.5\% | 1.6\% | 48.4\% | 43 |
| 952 | Minnesota | Feb-00 | 50.4\% | 1.0\% | 1.2\% | 2.9\% | 0.4\% | 44.2\% | 37 |
| 954 | Florida | Sep-95 | 46.7\% | 11.5\% | 1.0\% | 3.7\% | 1.1\% | 36.0\% | 41 |
| 956 | Texas | Jul-97 | 34.5\% | 3.8\% | 0.4\% | 4.2\% | 5.2\% | 51.9\% | 25 |
| 970 | Colorado | Apr-95 | 36.8\% | 0.2\% | 0.7\% | 2.3\% | 0.7\% | 59.2\% | 48 |
| 971 | Oregon | Oct-00 | 16.9\% | 0.1\% | 0.2\% | 1.5\% | 0.3\% | 80.9\% | 25 |
| 972 | Texas | Sep-96 | 51.9\% | 1.1\% | 1.1\% | 3.6\% | 1.3\% | 41.0\% | 43 |
| 973 | New Jersey | Jun-97 | 50.0\% | 1.2\% | 2.5\% | 2.4\% | 0.8\% | 43.1\% | 42 |
| 978 | Massachusetts | Sep-97 | 38.4\% | 0.6\% | 1.5\% | 1.8\% | 0.5\% | 57.2\% | 39 |
| 979 | Texas | Feb-00 | 20.3\% | 5.9\% | 1.0\% | 1.4\% | 1.7\% | 69.7\% | 37 |
| 980 | North Carolina | Apr-01 | 27.4\% | 8.9\% | 0.2\% | 1.7\% | 0.4\% | 61.4\% | 11 |
| 985 | Louisiana | Feb-01 | 26.2\% | 10.1\% | 3.1\% | 1.9\% | 0.6\% | 58.1\% | 31 |
| 989 | Michigan | Apr-01 | 24.3\% | 0.2\% | 1.7\% | 1.3\% | 1.0\% | 71.4\% | 36 |

Source: Numbering Resource Utilization/Forecast forms filed with NeuStar as of April 15, 2003.

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 | 2,182 | 108 | 2,356 | 28 | 1,014 | 38 | 468 | 6 |
| 202 | 2,414 | 111 | 926 | 23 | 525 | 29 | 286 | 6 |
| 203 | 2,048 | 114 | 2,506 | 23 | 949 | 35 | 542 | 7 |
| 205 | 1,439 | 93 | 1,566 | 21 | 736 | 52 | 682 | 14 |
| 206 | 1,937 | 148 | 1,029 | 23 | 875 | 52 | 334 | 7 |
| 207 | 1,426 | 67 | 2,369 | 36 | 517 | 12 | 667 | 8 |
| 208 | 1,592 | 89 | 2,232 | 34 | 569 | 40 | 1,027 | 17 |
| 209 | 1,134 | 55 | 1,987 | 20 | 652 | 38 | 762 | 12 |
| 210 | 1,608 | 129 | 1,252 | 21 | 787 | 58 | 233 | 7 |
| 212 | 5,789 | 315 | 871 | 25 | 0 | 0 | 0 | 0 |
| 213 | 953 | 77 | 1,194 | 28 | 419 | 26 | 458 | 6 |
| 214 | 1,853 | 144 | 1,808 | 36 | 1,239 | 72 | 444 | 6 |
| 215 | 3,265 | 176 | 1,837 | 21 | 850 | 46 | 285 | 6 |
| 216 | 1,158 | 64 | 1,521 | 18 | 556 | 34 | 586 | 7 |
| 217 | 1,015 | 40 | 3,477 | 28 | 484 | 21 | 612 | 14 |
| 218 | 633 | 28 | 2,510 | 50 | 324 | 13 | 583 | 9 |
| 219 | 685 | 40 | 826 | 13 | 336 | 17 | 422 | 9 |
| 224 | Not shown to protect carrier confidentiality |  |  | 3 | 44 | 4 | 237 | 5 |
| 225 | 663 | 39 | 761 | 15 | 362 | 28 | 457 | 10 |
| 228 | 325 | 20 | 634 | 12 | 176 | 19 | 385 | 12 |
| 229 | 531 | 33 | 1,151 | 19 | 229 | 14 | 575 | 11 |
| 231 | 554 | 33 | 1,897 | 18 | 141 | 13 | 447 | 7 |
| 234 | Not shown to protect carrier confidentiality |  |  | 3 | Not shown to protect carrier confidentiality |  |  | 2 |
| 239 | 802 | 40 | 480 | 8 | 430 | 15 | 341 | 7 |
| 240 | 406 | 14 | 2,017 | 21 | 444 | 25 | 457 | 10 |
| 248 | 1,822 | 95 | 2,628 | 23 | 820 | 39 | 495 | 6 |
| 251 | 559 | 33 | 783 | 19 | 287 | 23 | 389 | 11 |
| 252 | 1,151 | 46 | 1,917 | 14 | 456 | 21 | 692 | 10 |
| 253 | 1,167 | 72 | 1,204 | 23 | 463 | 35 | 179 | 7 |
| 254 | 647 | 58 | 1,582 | 24 | 339 | 18 | 413 | 12 |
| 256 | 1,042 | 69 | 1,798 | 22 | 624 | 53 | 1,059 | 14 |
| 260 | 641 | 21 | 935 | 15 | 258 | 9 | 709 | 6 |
| 262 | 1,013 | 63 | 2,214 | 24 | 334 | 13 | 553 | 8 |
| 267 | 228 | 6 | 3,302 | 27 | 499 | 34 | 373 | 6 |
| 269 | 700 | 38 | 1,016 | 17 | 159 | 19 | 243 | 9 |
| 270 | 1,070 | 45 | 2,855 | 25 | 423 | 63 | 984 | 12 |
| 276 | 389 | 18 | 780 | 12 | 116 | 4 | 271 | 11 |
| 281 | 2,206 | 186 | 2,622 | 26 | 892 | 48 | 150 | 6 |
| 301 | 3,306 | 171 | 1,768 | 15 | 966 | 45 | 240 | 9 |
| 302 | 1,287 | 42 | 1,591 | 16 | 424 | 22 | 251 | 7 |
| 303 | 3,799 | 264 | 1,565 | 22 | 990 | 54 | 168 | 7 |
| 304 | 1,428 | 68 | 2,595 | 22 | 626 | 38 | 754 | 15 |
| 305 | 2,421 | 202 | 943 | 21 | 938 | 87 | 609 | 9 |
| 307 | 509 | 29 | 1,086 | 18 | 209 | 14 | 548 | 11 |
| 308 | 320 | 18 | 1,666 | 31 | 128 | 6 | 411 | 8 |
| 309 | 963 | 37 | 2,324 | 35 | 409 | 20 | 443 | 12 |
| 310 | 2,746 | 176 | 2,027 | 29 | 1,210 | 66 | 423 | 6 |
| 312 | 2,200 | 108 | 1,576 | 23 | 422 | 19 | 919 | 7 |
| 313 | 1,346 | 103 | 1,513 | 19 | 775 | 60 | 963 | 6 |
| 314 | 1,699 | 91 | 1,608 | 20 | 984 | 45 | 510 | 6 |
| 315 | 1,242 | 120 | 2,270 | 27 | 512 | 22 | 494 | 9 |
| 316 | 480 | 27 | 1,111 | 13 | 265 | 21 | 180 | 9 |
| 317 | 1,679 | 128 | 2,162 | 26 | 770 | 38 | 531 | 6 |
| 318 | 925 | 60 | 1,888 | 23 | 474 | 36 | 850 | 11 |
| 319 | 778 | 49 | 1,647 | 47 | 348 | 19 | 475 | 9 |

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 |
| 320 | 464 | 37 | 1,562 | 45 | 215 | 11 | 354 | 12 |
| 321 | 559 | 29 | 913 | 24 | 389 | 22 | 325 | 7 |
| 323 | 1,555 | 134 | 2,814 | 28 | 725 | 59 | 193 | 6 |
| 325 | Not shown to protect carrier confidentiality |  |  | 2 | Not shown to protect carrier confidentiality |  |  | 2 |
| 330 | 1,695 | 78 | 2,661 | 18 | 797 | 46 | 840 | 10 |
| 334 | 885 | 58 | 1,517 | 28 | 464 | 38 | 1,107 | 12 |
| 336 | 1,611 | 86 | 1,840 | 29 | 753 | 46 | 787 | 9 |
| 337 | 666 | 45 | 1,222 | 20 | 388 | 36 | 682 | 11 |
| 339 | 22 | 0 | 152 | 12 | Not shown to protect carrier confidentiality <br> Not shown to protect carrier confidentiality |  |  | 3 |
| 340 | Not shown to protect carrier confidentiality |  |  | 1 |  |  |  | 3 |
| 347 | 177 | 4 | 402 | 17 | 491 | 37 | 497 | 7 |
| 351 | 0 | 0 | 0 | 0 | Not shown to protect carrier confidentiality |  |  | 1 |
| 352 | 879 | 44 | 1,056 | 17 | 495 | 28 | 643 | 10 |
| 360 | 1,710 | 110 | 2,420 | 41 | 679 | 43 | 844 | 8 |
| 361 | 608 | 44 | 1,049 | 18 | 312 | 27 | 743 | 9 |
| 386 | 566 | 38 | 733 | 18 | 275 | 19 | 418 | 10 |
| 401 | 1,503 | 70 | 1,901 | 15 | 520 | 25 | 329 | 6 |
| 402 | 1,688 | 90 | 3,314 | 35 | 661 | 45 | 665 | 11 |
| 404 | 1,970 | 130 | 787 | 24 | 1,200 | 83 | 683 | 8 |
| 405 | 1,142 | 61 | 1,895 | 23 | 632 | 38 | 444 | 12 |
| 406 | 824 | 51 | 2,896 | 31 | 346 | 26 | 918 | 6 |
| 407 | 1,619 | 115 | 1,509 | 21 | 786 | 56 | 308 | 7 |
| 408 | 2,401 | 157 | 1,750 | 27 | 924 | 46 | 514 | 8 |
| 409 | 525 | 46 | 894 | 18 | 286 | 20 | 362 | 11 |
| 410 | 3,766 | 170 | 1,226 | 17 | 901 | 45 | 179 | 7 |
| 412 | 1,650 | 82 | 2,199 | 19 | 790 | 41 | 543 | 7 |
| 413 | 1,618 | 38 | 1,757 | 21 | 311 | 13 | 191 | 9 |
| 414 | 1,156 | 70 | 967 | 13 | 604 | 35 | 462 | 9 |
| 415 | 2,065 | 135 | 2,344 | 24 | 762 | 37 | 452 | 7 |
| 417 | 714 | 44 | 1,982 | 32 | 340 | 14 | 724 | 11 |
| 419 | 1,528 | 67 | 3,361 | 40 | 726 | 37 | 1,096 | 11 |
| 423 | 1,175 | 57 | 1,783 | 26 | 598 | 43 | 864 | 15 |
| 425 | 693 | 54 | 1,413 | 25 | 471 | 29 | 312 | 7 |
| 432 | Not shown to protect carrier confidentiality |  |  | 3 | 0 | 0 | 0 | 0 |
| 434 | 660 | 29 | 802 | 11 | 295 | 12 | 447 | 10 |
| 435 | 559 | 37 | 1,711 | 29 | 200 | 15 | 778 | 11 |
| 440 | 1,076 | 55 | 2,447 | 24 | 434 | 23 | 497 | 8 |
| 443 | 584 | 13 | 3,076 | 22 | 660 | 35 | 701 | 8 |
| 469 | 282 | 20 | 1,477 | 26 | 292 | 21 | 118 | 6 |
| 478 | 545 | 33 | 636 | 18 | 269 | 17 | 448 | 11 |
| 479 | 596 | 31 | 1,073 | 17 | 325 | 25 | 521 | 6 |
| 480 | 1,881 | 124 | 763 | 19 | 471 | 45 | 152 | 8 |
| 484 | 339 | 6 | 4,069 | 34 | 238 | 13 | 426 | 8 |
| 501 | 820 | 44 | 1,547 | 19 | 468 | 38 | 774 | 8 |
| 502 | 1,086 | 59 | 1,239 | 19 | 600 | 41 | 620 | 10 |
| 503 | 2,712 | 181 | 2,262 | 34 | 994 | 54 | 357 | 7 |
| 504 | 1,023 | 64 | 761 | 16 | 609 | 44 | 454 | 10 |
| 505 | 1,899 | 102 | 2,179 | 28 | 793 | 56 | 859 | 12 |
| 507 | 670 | 40 | 2,321 | 49 | 319 | 18 | 641 | 10 |
| 508 | 2,840 | 126 | 2,591 | 28 | 1,025 | 46 | 315 | 6 |
| 509 | 1,267 | 75 | 1,832 | 26 | 551 | 32 | 841 | 13 |
| 510 | 1,722 | 131 | 2,153 | 22 | 866 | 49 | 621 | 7 |
| 512 | 2,024 | 135 | 1,630 | 25 | 779 | 40 | 482 | 10 |
| 513 | 2,011 | 107 | 1,462 | 19 | 869 | 70 | 583 | 6 |
| 515 | 996 | 45 | 1,385 | 35 | 380 | 20 | 338 | 10 |

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 |
| 516 | 1,667 | 105 | 1,054 | 26 | 1,109 | 47 | 519 | 7 |
| 517 | 790 | 35 | 1,255 | 28 | 378 | 21 | 650 | 11 |
| 518 | 1,351 | 77 | 2,105 | 29 | 510 | 18 | 321 | 8 |
| 520 | 1,336 | 74 | 1,053 | 23 | 534 | 43 | 595 | 12 |
| 530 | 1,128 | 50 | 2,690 | 27 | 488 | 22 | 656 | 13 |
| 540 | 1,466 | 67 | 1,251 | 25 | 668 | 42 | 1,097 | 15 |
| 541 | 1,438 | 96 | 2,372 | 36 | 590 | 26 | 1,022 | 14 |
| 551 | 0 | 0 | 0 | 0 | 31 | 2 | 173 | 5 |
| 559 | 1,049 | 61 | 2,211 | 18 | 580 | 32 | 539 | 8 |
| 561 | 1,398 | 94 | 772 | 23 | 670 | 46 | 548 | 8 |
| 562 | 1,322 | 89 | 1,988 | 28 | 648 | 44 | 454 | 6 |
| 563 | 413 | 33 | 1,167 | 39 | 208 | 12 | 302 | 9 |
| 567 | 2 | 0 | 778 | 7 | Not shown to p | ect carri | fidentiality | 3 |
| 570 | 1,396 | 118 | 2,076 | 31 | 518 | 21 | 559 | 7 |
| 571 | 69 | 5 | 319 | 16 | 233 | 11 | 169 | 6 |
| 573 | 854 | 60 | 2,309 | 26 | 375 | 18 | 840 | 11 |
| 574 | 579 | 23 | 898 | 18 | 260 | 12 | 522 | 7 |
| 580 | 530 | 27 | 2,844 | 26 | 276 | 18 | 877 | 13 |
| 585 | 1,326 | 21 | 1,221 | 20 | 268 | 11 | 397 | 10 |
| 586 | 705 | 42 | 1,067 | 18 | 468 | 17 | 684 | 6 |
| 601 | 1,105 | 67 | 2,500 | 25 | 583 | 53 | 1,140 | 16 |
| 602 | 2,286 | 124 | 878 | 21 | 1,089 | 78 | 708 | 8 |
| 603 | 1,850 | 73 | 2,483 | 31 | 598 | 20 | 893 | 12 |
| 605 | 709 | 56 | 2,990 | 58 | 324 | 19 | 813 | 7 |
| 606 | 939 | 33 | 1,957 | 19 | 269 | 31 | 707 | 12 |
| 607 | 699 | 43 | 1,292 | 19 | 268 | 8 | 339 | 10 |
| 608 | 1,018 | 53 | 2,084 | 45 | 468 | 22 | 530 | 10 |
| 609 | 1,584 | 68 | 1,984 | 23 | 933 | 47 | 583 | 6 |
| 610 | 2,889 | 120 | 2,295 | 35 | 986 | 41 | 239 | 8 |
| 612 | 1,171 | 74 | 759 | 24 | 1,018 | 48 | 495 | 9 |
| 614 | 1,678 | 90 | 2,355 | 17 | 628 | 34 | 282 | 6 |
| 615 | 1,487 | 86 | 1,866 | 26 | 751 | 55 | 366 | 9 |
| 616 | 923 | 52 | 1,142 | 18 | 488 | 25 | 659 | 8 |
| 617 | 3,123 | 190 | 2,191 | 28 | 1,076 | 53 | 307 | 7 |
| 618 | 943 | 44 | 3,373 | 28 | 487 | 26 | 861 | 16 |
| 619 | 1,480 | 96 | 1,400 | 21 | 945 | 63 | 432 | 6 |
| 620 | 427 | 34 | 3,155 | 34 | 172 | 7 | 657 | 12 |
| 623 | 646 | 40 | 478 | 16 | 208 | 21 | 175 | 8 |
| 626 | 1,280 | 69 | 1,870 | 26 | 704 | 46 | 380 | 6 |
| 630 | 1,995 | 144 | 2,332 | 22 | 845 | 37 | 1,074 | 7 |
| 631 | 1,654 | 140 | 2,128 | 27 | 488 | 22 | 328 | 7 |
| 636 | 634 | 34 | 1,682 | 20 | 122 | 5 | 317 | 6 |
| 641 | 353 | 25 | 2,239 | 42 | 187 | 9 | 612 | 11 |
| 646 | 827 | 48 | 459 | 24 | 787 | 58 | 344 | 7 |
| 650 | 1,652 | 97 | 2,487 | 21 | 512 | 24 | 420 | 7 |
| 651 | 1,510 | 66 | 957 | 27 | 406 | 21 | 144 | 8 |
| 660 | 323 | 29 | 2,305 | 29 | 144 | 7 | 518 | 13 |
| 661 | 902 | 52 | 1,827 | 24 | 484 | 26 | 343 | 7 |
| 662 | 781 | 48 | 2,487 | 28 | 353 | 29 | 1,007 | 14 |
| 670 | 0 | 0 | 0 | 0 | Not shown to p | ect carri | fidentiality | 1 |
| 671 | 0 | 0 | 0 | 0 | Not shown to p | ect carri | fidentiality | 3 |
| 678 | 1,092 | 75 | 3,435 | 33 | 886 | 57 | 460 | 12 |
| 682 | 41 | 0 | 335 | 9 | 42 | 5 | 141 | 3 |
| 701 | 610 | 32 | 2,922 | 48 | 287 | 17 | 787 | 7 |
| 702 | 1,762 | 129 | 1,104 | 17 | 794 | 44 | 296 | 6 |

Table 7
Assigned, Aging and Available Telephone Numbers by Area Code (in thousands except OCNs)

|  | Wireline (ILECs and CLECs) <br> Area Code |  |  |  |  | Assigned | Aging | Available | OCNs |
| :---: | :---: | ---: | :---: | :---: | :---: | ---: | ---: | ---: | ---: |

Table 7
Assigned, Aging and Available Telephone Numbers by Area Code (in thousands except OCNs)

|  | Wireline (ILECs and CLECs) <br> Area Code |  |  |  |  | Assigned | Aging | Available | OCNs |
| :---: | :---: | :---: | :---: | :---: | :---: | ---: | ---: | ---: | ---: |

Source: Numbering Resource Utilization/Forecast forms filed with NeuStar as of April 15, 2003.

Table 8
Pooled and Presumably Poolable ${ }^{1}$ Thousands-blocks as of December 31, 2002

| State | Pooled (carrier received one or more thousands-blocks from another carrier) |  | Presumably Poolable |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | ILECs and CLECs | Cellular/PCS | In rate centers with pooling ${ }^{2}$ |  | Statewide |  |
|  |  |  | ILECs and CLECs | Cellular/PCS | ILECs and CLECs | Cellular/PCS |
| Alabama | 3 | 2 | 466 | 540 | 3,561 | 2,121 |
| Alaska | 0 | 0 | 0 | 0 | 639 | 162 |
| Arizona | 26 | 8 | 1,513 | 594 | 2,064 | 1,284 |
| Arkansas | 0 | 0 | 0 | 0 | 2,288 | 1,837 |
| California | 867 | 1,074 | 25,316 | 5,392 | 32,896 | 6,855 |
| Colorado | 36 | 1 | 1,524 | 289 | 2,855 | 1,573 |
| Connecticut | 89 | 55 | 3,662 | 602 | 4,106 | 618 |
| Delaware | 0 | 0 | 625 | 117 | 1,202 | 142 |
| District of Columbia | 11 | 3 | 508 | 92 | 508 | 92 |
| Florida | 304 | 13 | 6,178 | 2,498 | 10,072 | 4,286 |
| Georgia | 11 | 1 | 3,340 | 343 | 6,069 | 2,276 |
| Guam | 0 | 0 | 0 | 0 | 0 | 3 |
| Hawaii | 0 | 0 | 243 | 115 | 539 | 213 |
| Idaho | 5 | 1 | 392 | 301 | 985 | 773 |
| Illinois | 1,169 | 17 | 9,357 | 2,726 | 13,743 | 3,527 |
| Indiana | 57 | 1 | 2,043 | 1,087 | 6,646 | 3,022 |
| Iowa | 0 | 0 | 135 | 160 | 1,333 | 1,393 |
| Kansas | 1 | 0 | 327 | 83 | 4,944 | 898 |
| Kentucky | 0 | 0 | 0 | 0 | 5,206 | 2,108 |
| Louisiana | 2 | 1 | 741 | 476 | 2,726 | 1,657 |
| Maine | 64 | 7 | 653 | 195 | 991 | 406 |
| Maryland | 114 | 29 | 5,812 | 841 | 6,001 | 939 |
| Massachusetts | 425 | 63 | 9,963 | 2,012 | 10,805 | 2,232 |
| Michigan | 68 | 16 | 6,893 | 2,248 | 11,985 | 3,304 |
| Minnesota | 13 | 2 | 1,841 | 343 | 3,540 | 1,000 |
| Mississippi | 0 | 0 | 0 | 0 | 3,310 | 1,361 |
| Missouri | 85 | 6 | 3,373 | 1,196 | 6,543 | 2,395 |
| Montana | 0 | 0 | 0 | 0 | 606 | 581 |
| Nebraska | 3 | 1 | 286 | 101 | 2,176 | 653 |
| Nevada | 0 | 0 | 156 | 70 | 1,105 | 381 |
| New Hampshire | 299 | 9 | 1,587 | 649 | 1,594 | 669 |
| New Jersey | 382 | 49 | 9,299 | 1,587 | 11,723 | 1,728 |
| New Mexico | 19 | 2 | 348 | 387 | 518 | 479 |
| New York | 686 | 74 | 9,542 | 2,642 | 10,250 | 2,816 |
| North Carolina | 66 | 0 | 2,610 | 950 | 7,161 | 2,730 |
| North Dakota | 0 | 0 | 0 | 0 | 511 | 643 |
| Ohio | 50 | 0 | 2,623 | 921 | 14,128 | 3,487 |
| Oklahoma | 23 | 3 | 1,247 | 449 | 3,264 | 1,517 |
| Oregon | 72 | 10 | 1,904 | 812 | 2,513 | 951 |
| Pennsylvania | 291 | 38 | 13,728 | 2,238 | 17,160 | 2,826 |
| Puerto Rico | 0 | 0 | 0 | 0 | 0 | 349 |
| Rhode Island | 12 | 0 | 1,139 | 181 | 1,247 | 208 |
| South Carolina | 0 | 0 | 0 | 0 | 2,441 | 1,398 |
| South Dakota | 0 | 0 | 0 | 0 | 562 | 662 |
| Tennessee | 26 | 6 | 1,133 | 296 | 4,626 | 1,705 |
| Texas | 137 | 22 | 9,038 | 1,212 | 21,751 | 5,083 |
| US Virgin Islands | 0 | 0 | 0 | 0 | 0 | 22 |
| Utah | 63 | 4 | 898 | 173 | 1,718 | 885 |
| Vermont | 10 | 5 | 567 | 133 | 2,446 | 261 |
| Virginia | 148 | 24 | 2,997 | 1,830 | 4,305 | 2,390 |
| Washington | 88 | 9 | 3,238 | 1,131 | 4,789 | 1,536 |
| West Virginia | 25 | 4 | 362 | 207 | 1,413 | 523 |
| Wisconsin | 4 | 0 | 451 | 124 | 4,758 | 2,332 |
| Wyoming | 0 | 0 | 0 | 0 | 372 | 330 |
| Totals | 5,754 | 1,560 | 148,058 | 38,343 | 268,694 | 83,622 |

Source: Pooling data provided by NeuStar. Numbering Resource Utilization/Forecast forms filed with NeuStar, Inc. as of April 15, 2003.
${ }^{1}$ Thousands-blocks can be donated 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 .
${ }^{2}$ Pooling has been established in some rate centers where thousands-blocks have yet to be transferred from one carrier to another.





Table 9
Number Utilization for Specialized Nongeographic Area Codes as of December 31, 2002

| Specialized <br> Area Codes | Assigned | Intermediate | Reserved <br> (Thousands of telephone numbers) |  | Aging | Admin | Available $^{1}$ | Total | Unique <br> NXXs |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 500 | 1,919 | 1,273 | 6 | 1,291 | 39 | 1,743 | 6,270 | 627 |  |
|  | $30.6 \%$ | $20.3 \%$ | $0.1 \%$ | $20.6 \%$ | $0.6 \%$ | $27.8 \%$ |  |  |  |
| 900 | 114 | 117 | 5 | 1 | 0 | 413 | 650 | 65 |  |
|  | $17.5 \%$ | $18.0 \%$ | $0.8 \%$ | $0.2 \%$ | $0.0 \%$ | $63.5 \%$ |  |  |  |

Table 10
Alternate Sources of NPA-NXX Assignments

| NPA-NXXs that Appear in | NRUF | NANPA | LERG | NXXs |
| :--- | :---: | :---: | :---: | :---: |
| All Three Databases |  |  |  |  |
| NRUF, NANPA and LERG | $\checkmark$ | $\checkmark$ | $\checkmark$ | 121,514 |
| Two of the Three Databases |  |  |  |  |
| NRUF and NANPA | $\checkmark$ | $\checkmark$ |  | 379 |
| NANPA and LERG |  | $\checkmark$ | $\checkmark$ | 5,664 |
| NRUF and LERG | $\checkmark$ |  | $\checkmark$ | 1,091 |
| Only One Database | $\checkmark$ |  |  |  |
| NRUF |  | $\checkmark$ |  | 260 |
| NANPA |  |  | $\checkmark$ | 1,587 |
| LERG | 123,244 | 129,144 | 132,661 | 4,392 |
| Total NXXs in Database. |  |  |  |  |

Sources: NRUF database as of April 15, 2003; NANPA's NPA-NXX assignments database as of January 1, 2003; and the LERG, as of January 1, 2003.

[^8]Table 11
Percentage of Numbers Reported as Assigned

| Carrier Type | December 2000 | December 2001 | December 2002 |
| :--- | :---: | :---: | :---: |
| ILEC | $52.1 \%$ | $52.5 \%$ | $52.2 \%$ |
| Cellular/PCS | $46.2 \%$ | $47.2 \%$ | $47.8 \%$ |
| CLEC | $9.8 \%$ | $11.4 \%$ | $10.6 \%$ |
| Paging | $26.3 \%$ | $20.2 \%$ | $17.0 \%$ |
| Overall | $40.1 \%$ | $39.7 \%$ | $39.2 \%$ |

Source: Numbering Resource Utilization/Forecast Reports 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 |
| FCC Issued Third Numbering Resource Optimization Order |  |  |  |
| 2002 Q1 | 1,731 | 1,199 | 532 |
| 2002 Q2 | 2,392 | 1,260 | 1,132 |
| 2002 Q3 | 1,954 | 587 | 1,367 |
| 2002 Q4 | 1,101 | 558 | 543 |
| 2003 Q1 | 897 | 533 | 364 |

Source: NeuStar, Inc.

## Customer Response

Publication: Numbering Resource Utilization in the United States as of December 31, 2002.
You can help us provide the best possible information to the public by completing this form and returning it to the Industry Analysis \& 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 business customer
__ academic/student
___ residential customer
___ FCC employee
___ other federal government employee
___ state or local government employee
__ Other (please specify)
2. Please rate the report: Data accuracy Data presentation Timeliness of data Completeness of data Text clarity Completeness of text

3. Overall, how do you rate this report?

Excellent
$\left(\_\right)$

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

Name:
Telephone \#:

| Questions? Contact Industry Analysis and Technology Division at 202-418-0940 |  |  |
| :---: | :---: | :---: |
| Fax this response to | Or | Mail this response to |
| $202-418-0520$ |  | FCC/IATD |
|  |  | Washington, D.C. 20554 |


[^0]:    ${ }^{1}$ The previous edition of this report, with data as of December 31, 2001, was released in August 2002.
    ${ }^{2}$ See Numbering Resource Optimization, CC Docket No. 99-200, Report and Order and Further Notice of Proposed Rulemaking, 15 FCC Rcd 7574 (2000) (March 2000 NRO Order); Numbering Resource Optimization, CC Docket No. 99-200, Order, 15 FCC Rcd 17005 (2000) (July 2000 NRO Order); Numbering Resource Optimization, CC Docket Nos. 99-200, 96-98, Second Report and Order, Order on Reconsideration in CC Docket No. 96-98 and CC Docket No. 99-200, and Second Further Notice of Proposed Rulemaking in CC Docket No. 99-200, 16 FCC Rcd 306 (2000) (December 2000 NRO Order); Numbering Resource Optimization, CC Docket Nos. 99-200, 96-98, 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, 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).
    ${ }^{3}$ 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 and Barbuda, the Bahamas not in the Caribbean, Barbados, British Virgin Islands, Cayman Islands, Dominica, Dominican Republic, Grenada, Jamaica, Montserrat, St. Kitts and Nevis, St. Lucia, St. Vincent and the Grenadines, Trinidad and Tobago, and the Turks and Caicos Islands. The data contained in this report are all limited to the United States and its overseas territories.

[^1]:    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 March 2000 NRO Order. FCC Form 502 and most other FCC forms can be downloaded from www.fcc.gov/formpage.html.
    ${ }^{6}$ The current NANPA is NeuStar, Inc.
    ${ }^{7}$ July 2000 NRO Order.
    ${ }^{8}$ 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.
    ${ }^{9}$ A ten-thousands block is the block of 10,000 telephone numbers that have the same area code and the same NXX.
    ${ }^{10}$ 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, Press Release (rel. June 18, 2001).

[^2]:    ${ }^{11} 47$ U.S.C. § 153(37).
    ${ }^{12}$ Carriers classified themselves in a variety of ways on their NRUF forms. With one exception, each carrier type was aggregated into one of these four categories for the purposes of this report. The exception involves carriers calling themselves interexchange carriers. These carriers reported data for area codes 500 and 900, which are summarized in Table 9 of this report. Therefore, there was no need to classify interexchange carriers as one of the four carrier types listed above. Also, the reader should note that carriers may provide multiple types of services, and may be doing so under a single operating company number. Where this occurs, this may cause a problem because carriers must indicate only their primary line of business on FCC Form 502. Thus, for example, there is some potential that some numbers are classified as cellular but are really used for paging. Only small carriers seem to do this, so the effects of this misclassification should be very minor.
    ${ }^{13}$ For precise definitions of these categories, see 47 C.F.R. § 52.15.

[^3]:    ${ }^{14}$ 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 to report on any telephone numbers received from the NANPA.
    ${ }^{15}$ The NANPA lists the codes that have been assigned on their web site: www.nanpa.com/number_resource_info/co_code_assignments $1 . h t m l$.

[^4]:    ${ }^{16}$ See March 2000 NRO Order, 15 FCC Rcd at 7604-05, para. 71. A small number of rural carriers may operate in areas with pooling. 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.
    ${ }^{17}$ See March 2000 NRO Order, 15 FCC Rcd at 7594, para. 41. Carriers obtain OCNs from the National Exchange Carrier Association.

[^5]:    ${ }^{18}$ Churn is the rate at which customers change carriers.
    ${ }^{19}$ The composition of MSAs may change over time. If a rate center is part of a top 100 MSA at any time after 1990, then the FCC generally requires number pooling. See Numbering Resource Optimization, CC Docket Nos. 99-200, 95-116, Fourth Report and Order in CC Docket No. 99-200 and CC Docket No. 95-116, and Fourth Further Notice of Proposed Rulemaking in CC Docket No. 99-200, FCC 03-126 (rel. June 18, 2003) (Fourth Report and Order).
    ${ }^{20}$ See The Common Carrier Bureau Announces The 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 Nos. 99-200, Order, 17 FCC Rcd 7347 (2002).

[^6]:    ${ }^{21}$ 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 $(10,000)$.
    ${ }^{22}$ A rate center is a geographic area used to determine distances and prices for local and long distance calls.
    ${ }^{23}$ In order to prevent disclosure of proprietary information, we have grouped some individual data points into clusters so that the specific utilization data for individual carriers cannot be divined by comparing the individual plot points with other data sources.
    ${ }^{24}$ 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

[^7]:    ${ }^{27}$ Unified messaging services allow end users to receive multiple types of messages (such as voice mail 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. Thus, unified messaging service providers can operate efficiently by obtaining a large number of NXXs in a single rate center.
    ${ }^{28}$ 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 had 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.

[^8]:    ${ }^{1}$ 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.

